



GROOVING AND TURNING

INCH AND METRIC TOOLS



2026/2027



EXPLORE HORN

Explore HORN

Outstanding results are always a combination of the optimum cutting process and the perfect tool. To achieve this, HORN combines advanced technology, performance and reliability. From single part to series production, for standard or special applications: Our tools offer you fast, economical, high quality solutions. To assist you when choosing cutting parameters, our tables in the respective catalogue provide proven empirical values. Take advantage of the expertise of our office staff and sales engineers.

Sustainability is a central part of our corporate philosophy. That is why we have always focused on quality assurance, environmental protection, energy efficiency and safety with regard to our products and our production. As an efficient and reliable tool partner, we make sure that you join us in an innovative and strong economic future.

Please visit our eShop, which is available around the clock.



Markus Horn
CEO
Paul Horn GmbH



Matthias Rommel
CEO
Paul Horn GmbH

HORN USA

In 1997, Horn USA was established in Franklin, Tennessee with a clear purpose: deliver world-class precision tooling with true local support for North American manufacturers.

Today, we manufacture in the United States, provide hands-on local engineering, and work side-by-side with customers from concept to finished part. Our team responds quickly, collaborates closely, and delivers solutions built for the demands of American shops.

Backed by the global strength of the HORN Group, we pair advanced R&D and cutting-edge technology with fast, US-based production, including programs like Greenline, where eligible US-made special inserts ship within five working days of design approval.



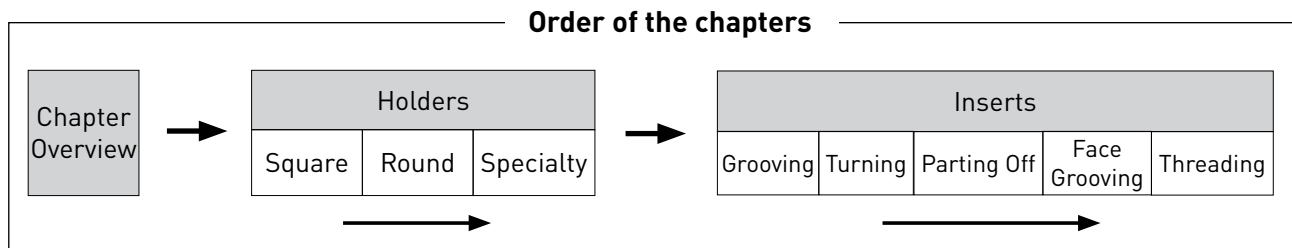
Chad King
CEO
Horn USA



Mike Csizmar
CSO
Horn USA

How to find products:

Products are shown in a specific order inside of each chapter.



How to choose tools:

- Delivery times
 - ▲ in stock
 - Δ 2 weeks
- Use for material groups
 - recommended
 - suitable
 - not ideal

How to match inserts and holders:

All Horn inserts and toolholders use a connection code system to indicate compatibility between inserts and holders. This code describes the type of insert seat/interface between the insert and holder. (HIS and HWS)
The same connection code system is used for our modular holders, where the code identifies compatibility between the base holder and cassette. (HMS and HWS)

HIS = Horn Insert Side

HWS = Horn Interface Holder Side

HMS = Horn Interface Machine Side

HIS	↔	HWS
HMS	↔	HWS

Example insert:

Part Number	w	r	h_1	HIS		MG12	H54	T125	TN35
S223.0200.32	2	0.2	3.65	22301		▲	▲	▲	▲

Correct Match

Example toolholder:

Part Number	h	b	l_1	l_2	h_1	b_1	f_1	f	t_{max}	D_{max}	HWS
RH223.1010.01	10	10	80	20	12	12	9.2	$f_1 + w/2$	8	25	12301 • 22301

A

A System 100 / 101

B

B System 117

C

C System 223

D

D System 209

E

E System 216

F

F System 217

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G System 224

H

H System 229 / 259

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I System 231

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J System 234

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K System 262

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L System 264

M

M System 274

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Chapter Index

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O	System 34T
P	System 312
Q	System 315
R	System 316
S	System 64T
T	System 66T
U	Face Grooving Systems
Y	Technical Information

N

O

P

Q

R

S

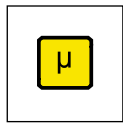
T

U

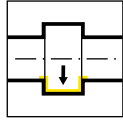
V

System		100 101	117	223	209	216	217	224	229 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving										•	
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

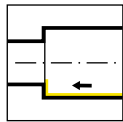
System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T



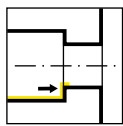
μ Finish



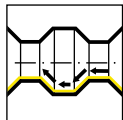
Internal grooving



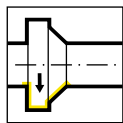
Internal boring



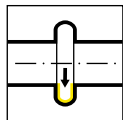
Internal back turning



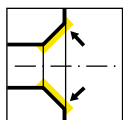
Internal profiling and chamfering



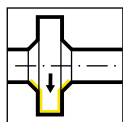
Internal pre-part off and chamfering



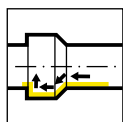
Internal grooving full radius



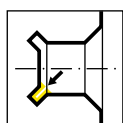
Internal chamfering



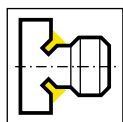
Internal grooving with chamfer



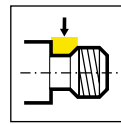
Boring and profiling



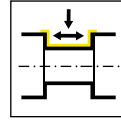
Internal corner relief



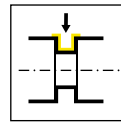
External corner relief



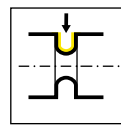
Thread relief



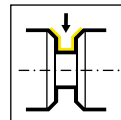
Grooving and side turning



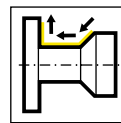
Grooving external



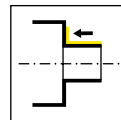
External grooving full radius



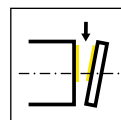
External grooving with NAKF



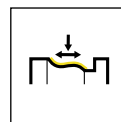
External profiling



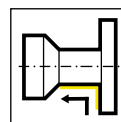
External side turning



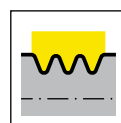
Parting off



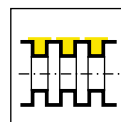
Profiling



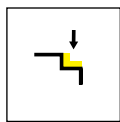
External back turning



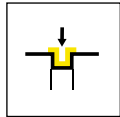
Poly-V-belt grooves



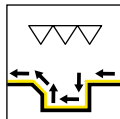
Multiple grooving



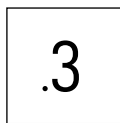
Partial cut



Grooving



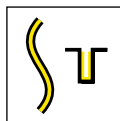
Finishing



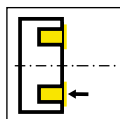
Insert Geometry



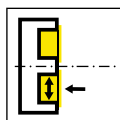
Circlip grooves



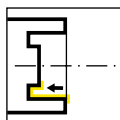
Speed Forming



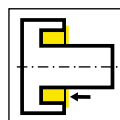
Face grooving



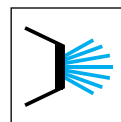
Faced side turning



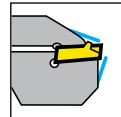
Internal face grooving



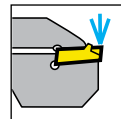
Face grooving with boss



Internal coolant



Targeted coolant



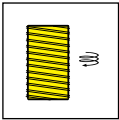
Coolant through insert



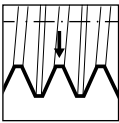
Partial profile thread



Full profile thread



External thread



Internal thread



Whitworth pipe thread BSW/BSF



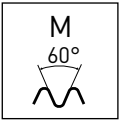
Unified thread



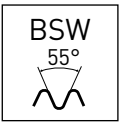
National pipe thread



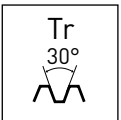
Steel conduit thread



60° thread profile



Whitworth pipe thread



Trapezoidal thread



29° thread profile

All Horn thread profiles are manufactured with full ground radial clearance. No shims are necessary.







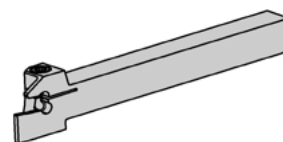
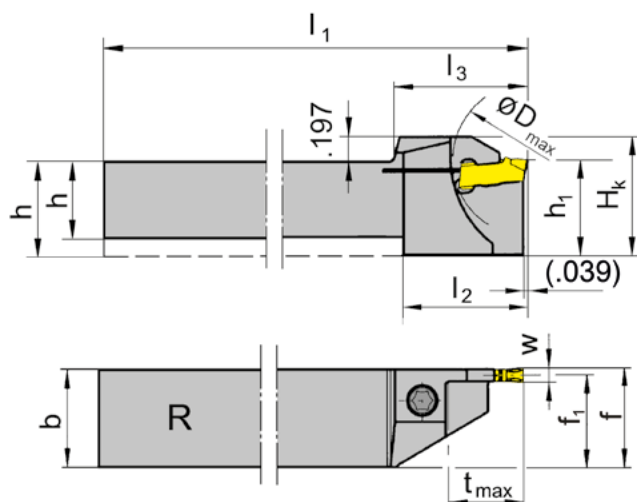
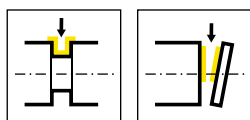
SYSTEM 100 / 101

EXTERNAL GROOVING, SIDE TURNING AND PARTING OFF

.047"-.630" / 1.2-16mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0375.01	.375	.375	5.118	.748	.827	.512	.345	f ₁ +w/2	.413	.827	.709	A	100018
RHU100.0500.01	.500	.500	5.118	.827	.906	.625	.470	f ₁ +w/2	.512	1.024	.822	A	100018
RHU100.0500.11	.500	.500	5.118	.827	1.024	.625	.470	f ₁ +w/2	.630	1.654	.822	A	100018
RHU100.0625.11	.625	.625	5.118	.945	1.024	.625	.595	f ₁ +w/2	.630	1.654	.947	A	100018
RHU100.0750.11	.750	.750	5.118	-	1.024	.750	.720	f ₁ +w/2	.630	1.654	.947	A	100018
RHU100.0625.21	.625	.625	5.118	1.181	1.319	.750	.595	f ₁ +w/2	.827	1.654	.947	A	100018
RHU100.0750.21	.750	.750	5.118	-	1.319	.750	.720	f ₁ +w/2	.827	1.654	.947	A	100018
LHU100.0375.01	.375	.375	5.118	.748	.827	.512	.345	f ₁ +w/2	.413	.827	.709	A	100018
LHU100.0500.01	.500	.500	5.118	.827	.906	.625	.470	f ₁ +w/2	.512	1.024	.822	A	100018
LHU100.0500.11	.500	.500	5.118	.827	1.024	.625	.470	f ₁ +w/2	.630	1.654	.822	A	100018
LHU100.0625.11	.625	.625	5.118	.945	1.024	.750	.595	f ₁ +w/2	.630	1.654	.947	A	100018
LHU100.0750.11	.750	.750	5.118	-	1.024	.750	.720	f ₁ +w/2	.630	1.654	.947	A	100018
LHU100.0625.21	.625	.625	5.118	1.181	1.319	.750	.595	f ₁ +w/2	.827	1.654	.947	A	100018
LHU100.0750.21	.750	.750	5.118	-	1.319	.750	.720	f ₁ +w/2	.827	1.654	.947	A	100018
LHU100.1000.21	1.000	1.000	6.004	-	1.319	1.000	.972	f ₁ +w/2	.827	1.654	1.197	A	100018

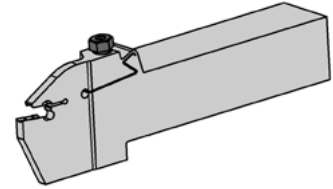
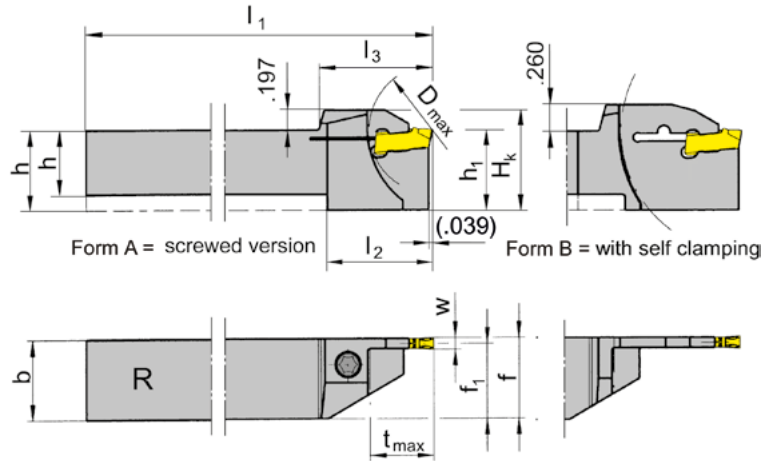
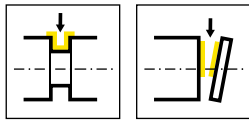
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU100....	4.15T15P	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	Form	HWS
RHU100.0500.02	.500	.500	5.118	.827	.906	.625	.463	$f_1+w/2$	.512	.984	.822	A	100028
RHU100.0625.02	.625	.625	5.118	.748	.827	.750	.588	$f_1+w/2$	.413	1.654	.947	A	100028
RHU100.0500.12	.500	.500	5.118	.945	1.024	.750	.463	$f_1+w/2$	.630	1.654	.947	A	100028
RHU100.0625.12	.625	.625	5.118	.945	1.024	.750	.588	$f_1+w/2$	.630	1.654	.947	A	100028
RHU100.0750.12	.750	.750	5.118	-	1.024	.750	.713	$f_1+w/2$	.630	1.654	.947	A	100128
RHU100.0750.22	.750	.750	5.118	-	1.319	.750	.713	$f_1+w/2$	.827	1.654	.947	A	100128
RHU100.0750.32	.750	.750	5.118	1.378	1.516	1.000	.713	$f_1+w/2$	1.280	2.559	1.260	B	100028
LHU100.0500.02	.500	.500	5.118	.827	.906	.625	.463	$f_1+w/2$	.512	.984	.822	A	100028
LHU100.0625.02	.625	.625	5.118	.748	.827	.750	.588	$f_1+w/2$	.413	1.654	.947	A	100028
LHU100.0500.12	.500	.500	5.118	.945	1.024	.750	.463	$f_1+w/2$	.630	1.654	.947	A	100028
LHU100.0625.12	.625	.625	5.118	.945	1.024	.750	.588	$f_1+w/2$	.630	1.654	.947	A	100028
LHU100.0750.12	.750	.750	5.118	-	1.024	.750	.713	$f_1+w/2$	.630	1.654	.947	A	100128
LHU100.0625.22	.625	.625	5.118	1.181	1.319	.750	.588	$f_1+w/2$	.827	1.654	.947	A	100128
LHU100.0750.22	.750	.750	5.118	-	1.319	.750	.713	$f_1+w/2$	.827	1.654	.947	A	100128
LHU100.0750.32	.750	.750	5.118	1.378	1.516	1.000	.713	$f_1+w/2$	1.280	2.559	1.260	B	100028

For the (w) dimension, see inserts

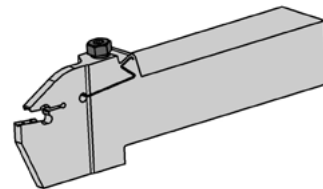
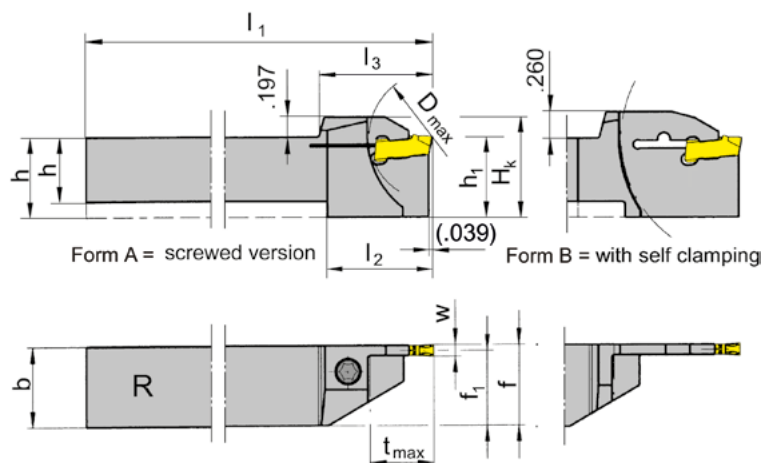
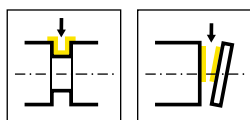
Wrench **P39L** is not combined with blade R/LHU100.0750.32 - separate order required!

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LHU100....	4.15T15P	T15PQ	-	5 Nm
R/LHU100.0750.32	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0500.03	.500	.500	5.118	.827	.906	.625	.455	f ₁ +w/2	.512	1.024	.822	A	100028
RHU100.0625.03	.625	.625	5.118	.768	.906	.750	.580	f ₁ +w/2	.413	1.654	.947	A	100038
RHU100.0625.13	.625	.625	5.118	.984	1.122	.750	.580	f ₁ +w/2	.630	1.654	.947	A	100038
RHU100.0750.13	.750	.750	5.118	-	1.122	.750	.705	f ₁ +w/2	.630	1.654	.947	A	100038
RHU100.1000.13	1.000	1.000	6.004	-	1.122	1.000	.955	f ₁ +w/2	.630	1.654	1.197	A	100038
RHU100.0625.23	.625	.625	5.118	1.181	1.319	.750	.580	f ₁ +w/2	.827	1.654	.947	A	100038
RHU100.0750.23	.750	.750	5.118	-	1.319	.750	.705	f ₁ +w/2	.827	1.654	.947	A	100038
RHU100.1000.23	1.000	1.000	6.004	-	1.319	1.000	.955	f ₁ +w/2	.827	1.654	1.197	A	100038
RHU100.0750.33	.750	.750	5.118	-	1.516	1.000	.705	f ₁ +w/2	1.280	2.559	1.260	B	100038
RHU100.1000.33	1.000	1.000	6.000	-	1.516	1.000	.955	f ₁ +w/2	1.280	2.559	1.260	B	100038
RHU100.0750.73	.750	.750	5.118	-	1.575	.750	.705	f ₁ +w/2	.984	1.969	.986	A	100038
RHU100.1000.73	1.000	1.000	5.118	-	1.575	1.000	.955	f ₁ +w/2	.984	1.969	1.236	A	100038
LHU100.0500.03	.500	.500	5.118	.827	.906	.625	.455	f ₁ +w/2	.512	1.024	.822	A	100028
LHU100.0625.03	.625	.625	5.118	.768	.906	.750	.580	f ₁ +w/2	.413	1.654	.947	A	100038
LHU100.0625.13	.625	.625	5.118	.984	1.122	.750	.580	f ₁ +w/2	.630	1.654	.947	A	100038
LHU100.0750.13	.750	.750	5.118	-	1.122	.750	.705	f ₁ +w/2	.630	1.654	.947	A	100038
LHU100.1000.13	1.000	1.000	6.004	-	1.122	1.000	.955	f ₁ +w/2	.630	1.654	1.197	A	100038
LHU100.0625.23	.625	.625	5.118	1.181	1.319	.750	.580	f ₁ +w/2	.827	1.654	.947	A	100038
LHU100.0750.23	.750	.750	5.118	-	1.319	.750	.705	f ₁ +w/2	.827	1.654	.947	A	100038
LHU100.1000.23	1.000	1.000	6.004	-	1.319	1.000	.955	f ₁ +w/2	.827	1.654	1.197	A	100038
LHU100.0750.33	.750	.750	5.118	1.378	1.516	1.000	.705	f ₁ +w/2	1.280	2.559	1.260	B	100038
LHU100.1000.33	1.000	1.000	6.000	-	1.516	1.000	.955	f ₁ +w/2	1.280	2.559	1.260	B	100038
LHU100.0750.73	.750	.750	5.118	-	1.575	.750	.705	f ₁ +w/2	.984	1.969	.986	A	100038

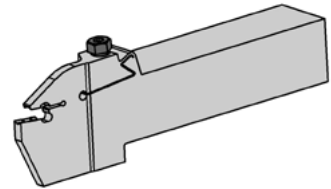
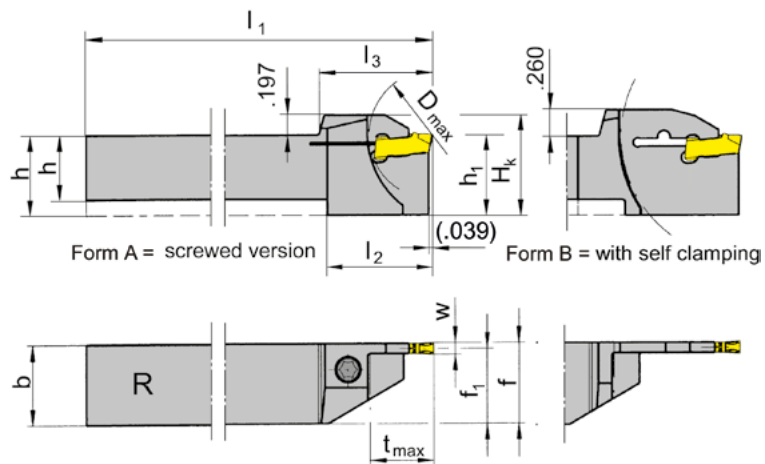
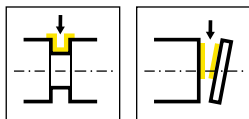
For the (w) dimension, see inserts

Dimensions in inch

Wrench **P39L** is not combined with R/LHU100...33 - a separate order is required.

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LHU100.0500/0625	5.17T20P	T20PQ	-	6.5 Nm
R/LHU100.0750/1000	6.23T25P	T25PQ	-	7 Nm
R/LHU100.0750.33	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0625.04	.625	.625	5.118	-	.906	.625	.564	f ₁ +w/2	.413	1.654	.947	A	100048
RHU100.0750.14	.750	.750	5.118	-	1.122	.750	.689	f ₁ +w/2	.630	1.654	.947	A	100048
RHU100.1000.14	1.000	1.000	6.004	-	1.122	1.000	.939	f ₁ +w/2	.630	1.654	1.197	A	100048
RHU100.0625.24	.625	.625	5.118	1.181	1.319	.750	.564	f ₁ +w/2	.827	1.654	.947	A	100048
RHU100.0750.34	.750	.750	5.118	1.378	1.516	1.000	.689	f ₁ +w/2	1.280	2.559	1.260	B	100048
RHU100.1000.34	1.000	1.000	6.000	-	1.831	1.000	.939	f ₁ +w/2	1.594	3.189	1.510	B	100048
RHU100.0750.74	.750	.750	5.118	-	1.575	.750	.689	f ₁ +w/2	.984	1.969	.986	A	100048
LHU100.0750.3.04	.750	.750	6.004	1.969	2.362	1.260	.677	f ₁ +w/2	1.299	-	1.693	A	100048
LHU100.0750.14	.750	.750	5.118	-	1.122	.750	.689	f ₁ +w/2	.630	1.654	.947	A	100048
LHU100.1000.14	1.000	1.000	6.004	-	1.122	1.000	.939	f ₁ +w/2	.630	1.654	1.197	A	100048
LHU100.0625.24	.625	.625	5.118	1.181	1.319	.750	.564	f ₁ +w/2	.827	1.654	.947	A	100048
LHU100.0750.34	.750	.750	5.118	1.378	1.516	1.000	.689	f ₁ +w/2	1.280	2.559	1.260	B	100048
LHU100.0750.74	.750	.750	5.118	-	1.575	.750	.689	f ₁ +w/2	.984	1.969	.986	A	100048
LHU100.1000.34	1.000	1.000	6.000	-	1.831	1.000	.939	f ₁ +w/2	1.594	3.189	1.510	B	100048

For the (w) dimension, see inserts

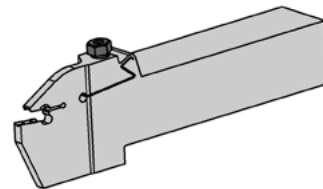
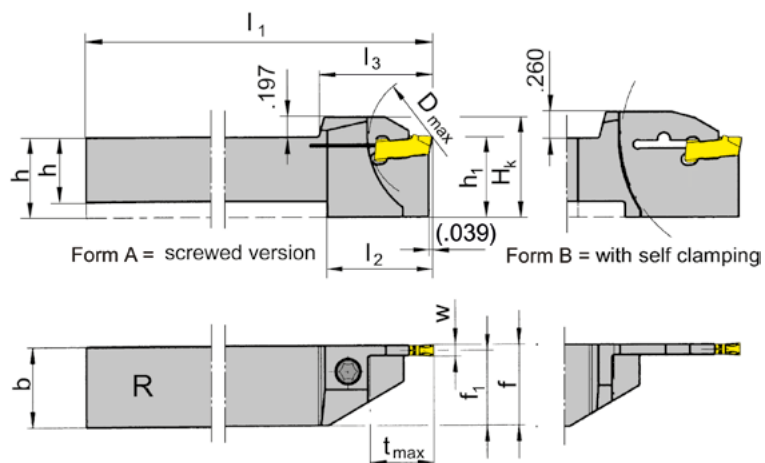
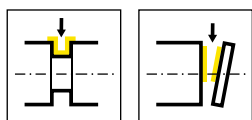
Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LHU100...	5.17T20P	T20PQ	-	6.5 Nm
LHU100.0750.3.04	030.6075.T20P	T20PQ	-	5 Nm
R/LHU100.0750.74	6.23T25P	T25PQ	-	7 Nm
LHU100.0750.34	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0750.3.05	.750	.750	6.004	-	2.362	1.260	.657	f ₁ +w/2	1.299	-	.750	A	100048
RHU100.0750.15	.750	.750	5.118	-	1.122	.750	.673	f ₁ +w/2	.630	1.654	.947	A	100058
RHU100.1000.15	1.000	1.000	6.004	-	1.122	1.000	.923	f ₁ +w/2	.630	1.654	1.197	A	100058
RHU100.0750.35	.750	.750	5.118	1.378	1.516	1.000	.673	f ₁ +w/2	1.280	2.559	1.260	B	100058
RHU100.1000.35	1.000	1.000	6.000	-	1.831	1.000	.923	f ₁ +w/2	1.594	3.189	1.510	B	100058
LHU100.0750.15	.750	.750	5.118	-	1.122	.750	.673	f ₁ +w/2	.630	1.654	.947	A	100058
LHU100.1000.15	1.000	1.000	6.004	-	1.122	1.000	.923	f ₁ +w/2	.630	1.654	1.197	A	100058
LHU100.0750.35	.750	.750	5.118	1.378	1.516	1.000	.673	f ₁ +w/2	1.280	2.559	1.260	B	100058
LHU100.1000.35	1.000	1.000	6.000	-	1.831	1.000	.923	f ₁ +w/2	1.594	3.189	1.510	B	100058

For the (w) dimension, see inserts

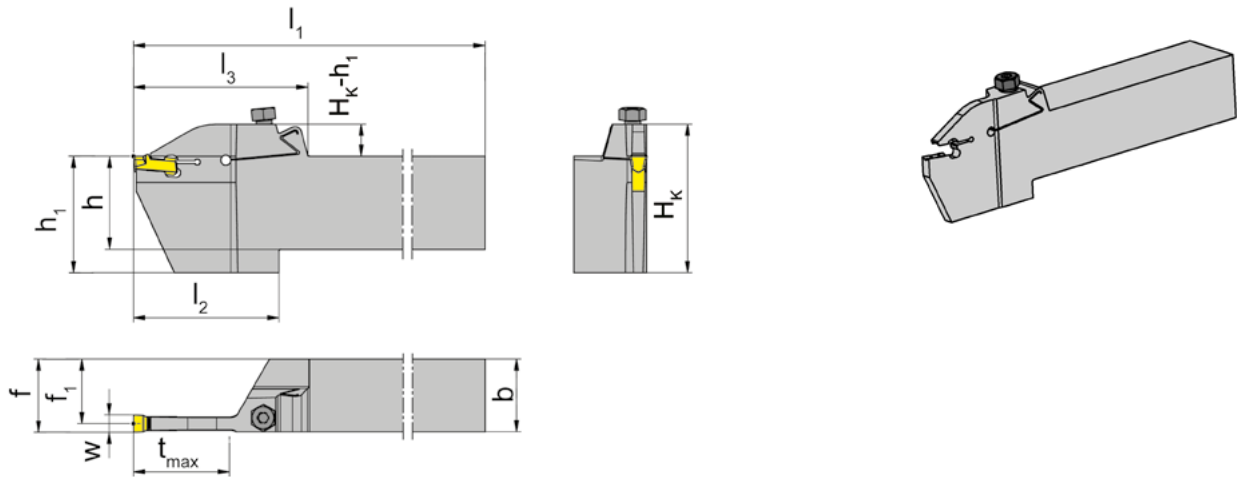
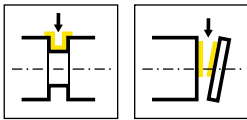
Wrench **P39L** is not combined with blade R/LHU100...35 - separate order required!

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
RHU100.0750.3.05	030.6075.T20P	T20PQ	-	5 Nm
R/LHU100...	5.17T20P	T20PQ	-	6.5 Nm
R/LHU100.0750.35	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	H _k	Form	HWS
RHU100.1250.4.08	1.250	1.000	6.693	2.165	2.559	1.496	.850	f ₁ +w/2	1.614	1.929	A	100048
RHU100.1250.4.10	1.250	1.000	6.693	2.165	2.559	1.496	.815	f ₁ +w/2	1.614	1.929	A	100048
LHU100.0750.3.04	.750	.750	6.004	1.969	2.362	1.260	.677	f ₁ +w/2	1.299	1.693	A	100048
LHU100.1000.3.06	1.000	1.000	6.004	1.969	2.362	1.496	.890	f ₁ +w/2	1.299	1.929	A	100048
LHU100.1250.3.06	1.250	1.000	6.693	1.969	2.362	1.496	.890	f ₁ +w/2	1.299	1.929	A	100048
LHU100.1250.38	1.250	1.000	6.693	1.969	2.362	1.496	.850	f ₁ +w/2	1.378	1.929	A	100048

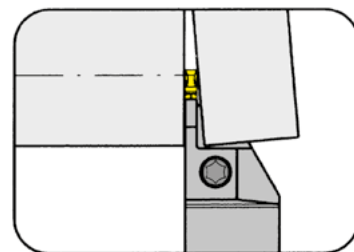
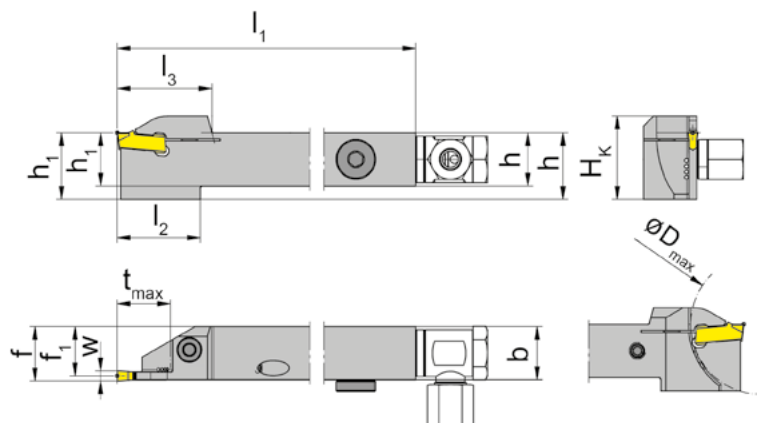
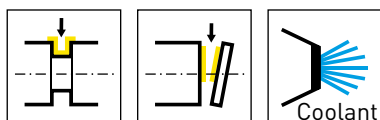
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU100...	030.6075.T20P	T20PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0500.01.IK	.500	.500	5.118	.827	.906	.630	.470	f ₁ +w/2	.531	1.024	.827	A	100018
RHU100.0500.11.IK	.500	.500	5.118	.945	1.024	.630	.470	f ₁ +w/2	.630	1.654	.827	A	100018
RHU100.0750.11.IK	.750	.750	5.118	-	1.024	.750	.720	f ₁ +w/2	.630	1.654	.947	A	100018
RHU100.0625.21.IK	.625	.625	5.118	1.181	1.319	.787	.595	f ₁ +w/2	.827	1.654	.984	A	100018
RHU100.0750.21.IK	.750	.750	5.118	-	1.319	.750	.720	f ₁ +w/2	.846	1.654	.947	A	100018
LHU100.0500.01.IK	.500	.500	5.118	.827	.906	.630	.470	f ₁ +w/2	.531	1.024	.827	A	100018
LHU100.0500.11.IK	.500	.500	5.118	.945	1.024	.630	.470	f ₁ +w/2	.630	1.654	.827	A	100018
LHU100.0625.11.IK	.625	.625	5.118	.984	1.122	.787	.595	f ₁ +w/2	.630	1.654	.984	A	100018
LHU100.0750.11.IK	.750	.750	5.118	-	1.024	.750	.720	f ₁ +w/2	.630	1.654	.947	A	100018
LHU100.0625.21.IK	.625	.625	5.118	1.181	1.319	.787	.595	f ₁ +w/2	.827	1.654	.984	A	100018

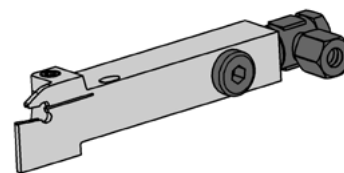
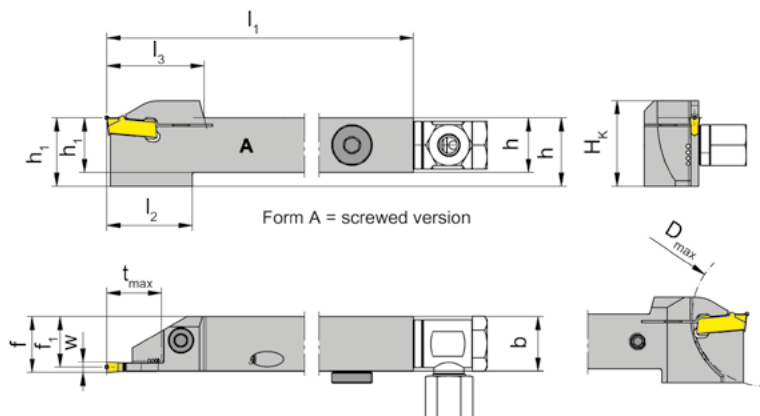
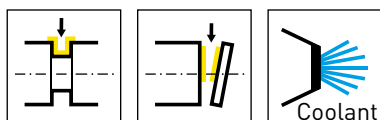
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
RHU100.0750.21.IK	4.15T15P	004.00.16	T15PQ	004.00.26	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0500.02.IK	.500	.500	4.921	.827	.906	.630	.463	f ₁ +w/2	.531	1.024	.827	A	100029
RHU100.0625.02.IK	.625	.625	5.118	.768	.906	.787	.588	f ₁ +w/2	.413	1.654	.984	A	100029
RHU100.0500.12.IK	.500	.500	5.118	.984	1.122	.630	.463	f ₁ +w/2	.630	1.654	.827	A	100029
RHU100.0625.12.IK	.625	.625	5.118	.984	1.122	.787	.588	f ₁ +w/2	.630	1.654	.984	A	100029
RHU100.0750.12.IK	.750	.750	5.118	-	1.024	.750	.713	f ₁ +w/2	.630	1.654	.947	A	100029
RHU100.0625.22.IK	.625	.625	5.118	1.181	1.319	.787	.588	f ₁ +w/2	.846	1.654	.984	A	100029
RHU100.0750.22.IK	.750	.750	5.118	-	1.319	.750	.713	f ₁ +w/2	.846	1.654	.947	A	100029
RHU100.1000.22.IK	1.000	1.000	5.906	-	1.319	1.000	.963	f ₁ +w/2	.846	1.654	1.197	A	100029
LHU100.0500.02.IK	.500	.500	4.921	.827	.906	.630	.463	f ₁ +w/2	.531	1.024	.827	A	100028
LHU100.0625.02.IK	.625	.625	5.118	.768	.906	.787	.588	f ₁ +w/2	.413	1.654	.984	A	100028
LHU100.0500.12.IK	.500	.500	5.118	.984	1.122	.630	.463	f ₁ +w/2	.630	1.654	.827	A	100028
LHU100.0625.12.IK	.625	.625	5.118	.984	1.122	.787	.588	f ₁ +w/2	.630	1.654	.984	A	100028
LHU100.0750.12.IK	.750	.750	5.118	-	1.024	.750	.713	f ₁ +w/2	.630	1.654	.947	A	100029
LHU100.1000.22.IK	1.000	1.000	5.906	-	1.319	1.000	.963	f ₁ +w/2	.846	1.654	1.197	A	100029

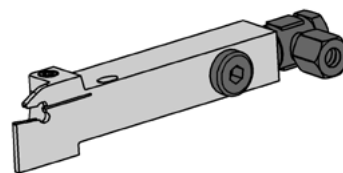
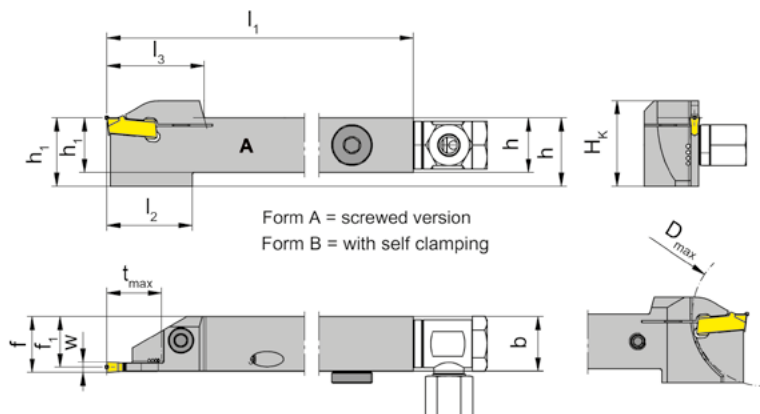
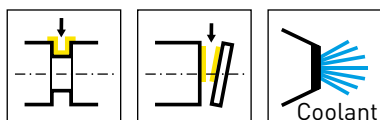
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU100...	4.15T15P	004.00.61	T15PQ	004.00.26	5 Nm
RHU100.0750.22.IK	5.17T20P	004.00.16	T20PQ	004.00.26	6.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0500.03.IK	.500	.500	5.118	.846	.925	.630	.455	f ₁ +w/2	.531	1.024	.827	A	100039
RHU100.0625.03.IK	.625	.625	5.118	.768	.906	.787	.580	f ₁ +w/2	.413	1.654	.984	A	100039
RHU100.0625.13.IK	.625	.625	5.118	.984	1.122	.787	.580	f ₁ +w/2	.630	1.654	.984	A	100039
RHU100.0625.23.IK	.625	.625	5.118	1.181	1.319	.787	.580	f ₁ +w/2	.827	1.654	.984	A	100039
RHU100.0750.13.IK	.750	.750	5.118	-	1.122	.750	.705	f ₁ +w/2	.630	1.654	.947	A	100039
RHU100.0750.23.IK	.750	.750	4.921	-	1.319	.750	.705	f ₁ +w/2	.846	1.654	.947	A	100039
RHU100.0750.33.IK	.750	.750	5.118	1.378	1.516	.984	.705	f ₁ +w/2	1.299	2.559	1.244	B	100039
RHU100.1000.13.IK	1.000	1.000	6.004	-	1.122	1.000	.955	f ₁ +w/2	.630	1.654	1.197	A	100039
RHU100.1000.23.IK	1.000	1.000	5.906	-	1.319	1.000	.955	f ₁ +w/2	.846	1.654	1.197	A	100039
RHU100.1000.33.IK	1.000	1.000	6.004	-	1.516	1.000	.955	f ₁ +w/2	1.299	2.559	1.260	B	100039
LHU100.0500.03.IK	.500	.500	5.118	.846	.925	.630	.455	f ₁ +w/2	.531	1.024	.827	A	100038
LHU100.0625.13.IK	.625	.625	5.118	.984	1.122	.787	.580	f ₁ +w/2	.630	1.654	.984	A	100038
LHU100.0625.23.IK	.625	.625	5.118	1.181	1.319	.787	.580	f ₁ +w/2	.827	1.654	.984	A	100038
LHU100.0750.13.IK	.750	.750	5.118	-	1.122	.750	.705	f ₁ +w/2	.630	1.654	.947	A	100039
LHU100.0750.23.IK	.750	.750	4.921	-	1.319	.750	.705	f ₁ +w/2	.846	1.654	.947	A	100039
LHU100.0750.33.IK	.750	.750	5.118	1.378	1.516	.984	.705	f ₁ +w/2	1.299	2.559	1.244	B	100039
LHU100.1000.13.IK	1.000	1.000	6.004	-	1.122	1.000	.955	f ₁ +w/2	.630	1.654	1.197	A	100039
LHU100.1000.33.IK	1.000	1.000	6.004	-	1.516	1.000	.955	f ₁ +w/2	1.299	2.559	1.260	B	100039

For the (w) dimension, see inserts

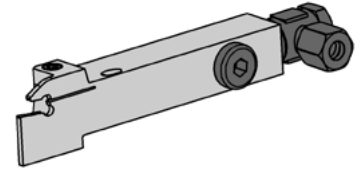
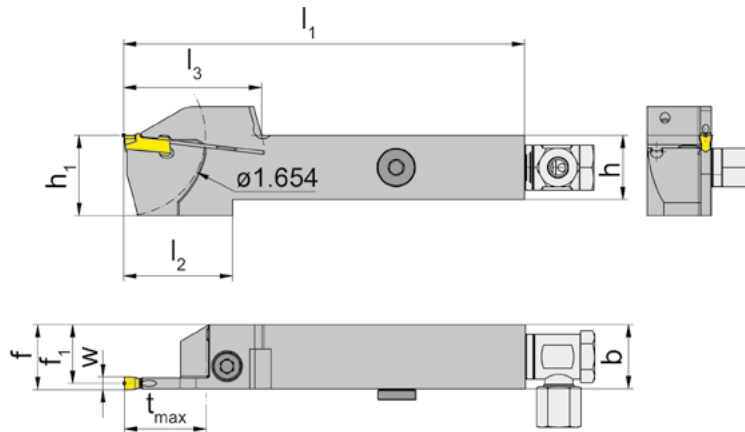
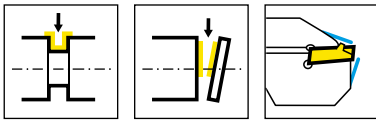
Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Wrench	Torque Value
R/LHU100...	5.17T20P	004.00.61	T20PQ	004.00.21	-	6.5 Nm
R/LHU100...33.IK	-	004.00.16	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0625.0.23.IK	.625	.625	5.118	1.378	1.555	.984	.561	f ₁ +w/2	.846	1.654	1.339	A	100039
RHU100.0625.0.24.IK	.625	.625	5.118	1.378	1.555	.984	.560	f ₁ +w/2	.846	1.654	1.339	A	100049
RHU100.0750.0.23.IK	.750	.750	5.118	1.299	1.535	.984	.697	f ₁ +w/2	.846	1.654	1.339	A	100039
RHU100.1000.0.23.IK	1.000	1.000	5.906	1.299	1.555	1.181	.947	f ₁ +w/2	.846	1.654	1.535	A	100039
LHU100.0625.0.23.IK	.625	.625	5.118	1.378	1.555	.984	.572	f ₁ +w/2	.846	1.654	1.339	A	100038
LHU100.0750.0.23.IK	.750	.750	5.118	1.299	1.535	.984	.697	f ₁ +w/2	.846	1.654	1.339	A	100038

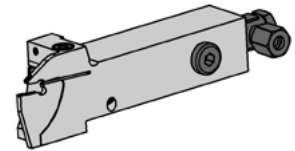
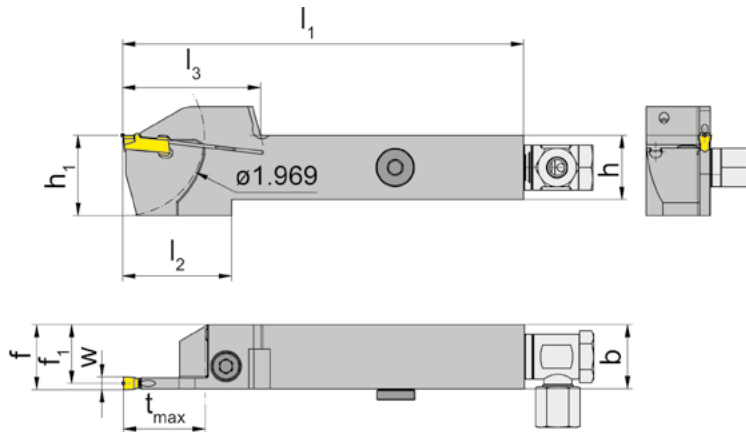
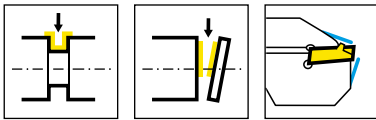
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU100...	004.00.16	6.23T25P	T25PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0750.0.73.IK	.750	.750	5.118	1.457	1.693	.984	.697	f ₁ +w/2	1.004	1.969	1.339	A	100039
RHU100.0750.0.74.IK	.750	.750	5.118	1.457	1.693	.984	.683	f ₁ +w/2	1.004	1.969	1.339	A	100049
RHU100.1000.0.73.IK	1.000	1.000	6.004	1.457	1.693	1.181	.947	f ₁ +w/2	1.004	1.969	1.535	A	100039
RHU100.1000.0.74.IK	1.000	1.000	5.118	1.457	1.693	1.181	.933	f ₁ +w/2	1.004	1.969	1.535	A	100049
LHU100.0750.0.73.IK	.750	.750	5.118	1.457	1.693	.984	.697	f ₁ +w/2	1.004	1.969	1.339	A	100038
LHU100.0750.0.74.IK	.750	.750	5.118	1.457	1.693	.984	.683	f ₁ +w/2	1.004	1.969	1.339	A	100048
LHU100.1000.0.73.IK	1.000	1.000	6.004	1.457	1.693	1.181	.947	f ₁ +w/2	1.004	1.969	1.535	A	100039
LHU100.1000.0.74.IK	1.000	1.000	5.118	1.457	1.693	1.181	.933	f ₁ +w/2	1.004	1.969	1.535	A	100049

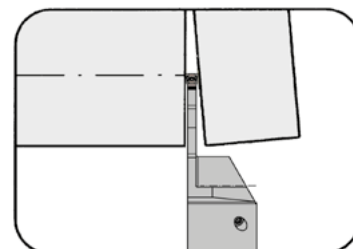
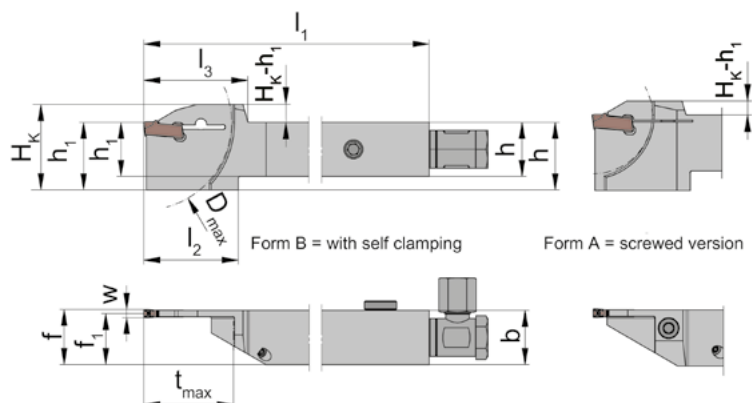
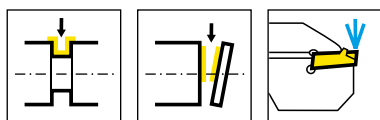
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU100...	004.00.16	6.23T25P	T25PQ	004.00.26	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0625.1.23.IK	.625	.625	5.118	1.378	1.319	1.063	.580	f ₁ +w/2	.846	1.654	1.260	A	100039
RHU100.0750.1.13.IK	.750	.750	5.118	1.181	1.122	1.063	.706	f ₁ +w/2	.630	1.654	1.260	A	100039
RHU100.0750.1.23.IK	.750	.750	5.118	1.378	1.319	1.063	.706	f ₁ +w/2	.846	1.654	1.260	A	100039
RHU100.0750.1.33.IK	.750	.750	5.118	1.378	1.516	1.024	.706	f ₁ +w/2	1.299	2.559	1.283	B	100039
RHU100.0750.1.34.IK	.750	.750	5.118	1.378	1.516	1.024	.690	f ₁ +w/2	1.299	2.559	1.283	B	100049
RHU100.1000.1.33.IK	1.000	1.000	6.004	1.378	1.516	1.260	.955	f ₁ +w/2	1.299	2.559	1.520	B	100039
RHU100.1000.1.34.IK	1.000	1.000	6.004	1.575	1.831	1.260	.939	f ₁ +w/2	1.614	3.189	1.520	B	100049
LHU100.0625.1.23.IK	.625	.625	5.118	1.378	1.319	1.063	.580	f ₁ +w/2	.846	1.654	1.260	A	100039
LHU100.0750.1.13.IK	.750	.750	5.118	1.181	1.122	1.063	.706	f ₁ +w/2	.630	1.654	1.260	A	100039
LHU100.0750.1.23.IK	.750	.750	5.118	1.378	1.319	1.063	.706	f ₁ +w/2	.846	1.654	1.260	A	100039
LHU100.0750.1.33.IK	.750	.750	5.118	1.378	1.516	1.024	.706	f ₁ +w/2	1.299	2.559	1.283	B	100039
LHU100.0750.1.34.IK	.750	.750	5.118	1.378	1.516	1.024	.690	f ₁ +w/2	1.299	2.559	1.283	B	100049
LHU100.1000.1.33.IK	1.000	1.000	6.004	1.378	1.516	1.260	.955	f ₁ +w/2	1.299	2.559	1.520	B	100039
LHU100.1000.1.34.IK	1.000	1.000	6.004	1.575	1.831	1.260	.939	f ₁ +w/2	1.614	3.189	1.520	B	100049

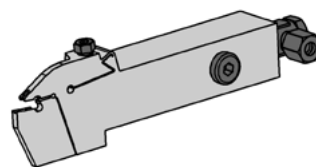
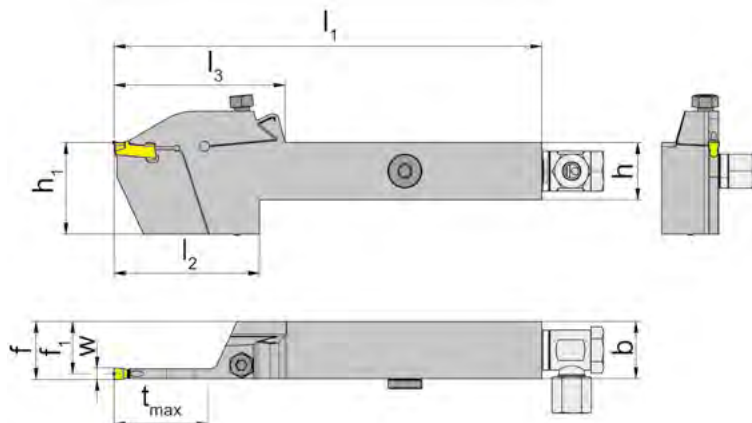
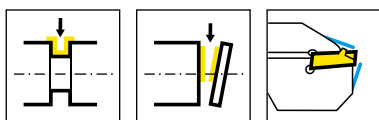
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Wrench	Screw Plug	Torque Value
R/LHU100....	5.17T20P	004.00.16	T20PQ	-	-	6.5 Nm
R/LHU100...33.IK	-	004.00.61	-	P39L	004.00.21	-



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_K	Form	HWS
RHU100.0750.3.0.04.IK	.750	.750	5.906	2.008	2.362	1.693	.685	$f_1+w/2$	1.299	5.906	1.693	A	100049
RHU100.1000.3.0.04.IK	1.000	1.000	5.906	1.969	2.362	1.260	.933	$f_1+w/2$	1.299	5.906	1.693	A	100049
LHU100.0750.3.0.04.IK	.750	.750	5.906	2.008	2.362	1.693	.685	$f_1+w/2$	1.299	5.906	1.693	A	100049
LHU100.1000.3.0.04.IK	1.000	1.000	5.906	1.969	2.362	1.260	.933	$f_1+w/2$	1.299	5.906	1.693	A	100049

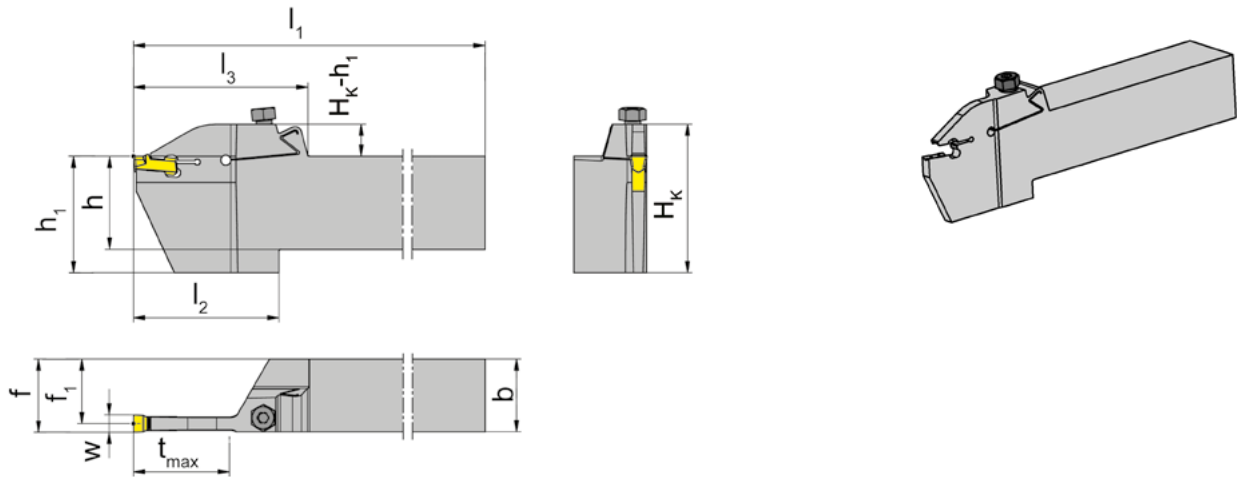
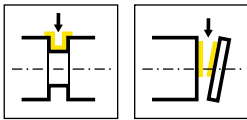
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
LHU100.1000.3.0.04.IK	004.00.16	030.6075.T20P	T20PQ	004.00.26	5 Nm
RHU100.1000.3.0.04.IK	004.00.61	030.6075.T20P	T20PQ	004.00.21	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_3	h_1	f_1	f	t_{max}	H_k	Form	HWS
RHU100.1250.5.16	1.250	1.250	6.693	2.205	1.850	.955	$f_1+w/2$	1.772	2.165	A	100168

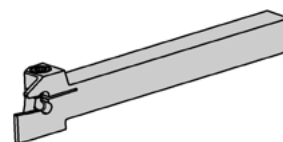
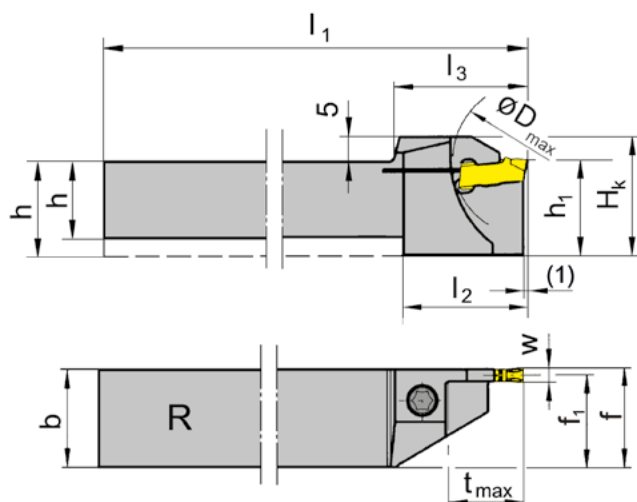
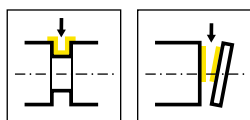
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RHU100.1250.5.16	030.0625.T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

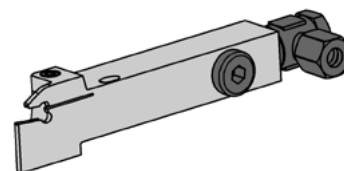
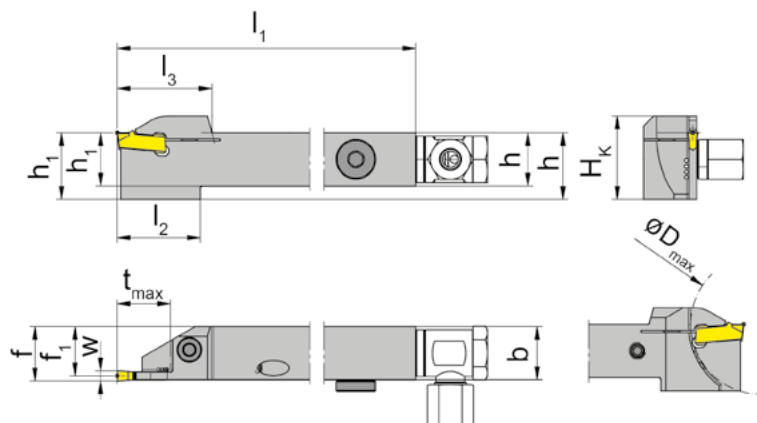
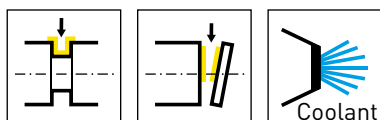
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	HWS
RH100.1010.01	10	10	125	19	21	13	9.25	f ₁ +w/2	10.5	21	18	100018
RH100.1010.11	10	10	125	21	23	16	9.25	f ₁ +w/2	13	42	21	100018
RH100.1212.01	12	12	125	21	23	16	11.25	f ₁ +w/2	13	26	21	100018
RH100.1212.11	12	12	125	21	26	16	11.25	f ₁ +w/2	16	42	21	100018
RH100.1616.11	16	16	125	24	26	20	15.25	f ₁ +w/2	16	42	25	100018
RH100.1616.21	16	16	125	30	33.5	20	15.25	f ₁ +w/2	21	42	25	100018
RH100.2020.11	20	20	125	-	26	20	19.25	f ₁ +w/2	16	42	25	100018
RH100.2020.21	20	20	125	-	33.5	20	19.25	f ₁ +w/2	21	42	25	100018
RH100.2525.21	25	25	150	-	33.5	25	24.3	f ₁ +w/2	21	42	30	100018
LH100.1010.01	10	10	125	19	21	13	9.25	f ₁ +w/2	10.5	21	18	100018
LH100.1010.11	10	10	125	21	23	16	9.25	f ₁ +w/2	13	42	21	100018
LH100.1212.01	12	12	125	21	23	16	11.25	f ₁ +w/2	13	26	21	100018
LH100.1212.11	12	12	125	21	26	16	11.25	f ₁ +w/2	16	42	21	100018
LH100.1616.11	16	16	125	24	26	20	15.25	f ₁ +w/2	16	42	25	100018
LH100.1616.21	16	16	125	30	33.5	20	15.25	f ₁ +w/2	21	42	25	100018
LH100.2020.11	20	20	125	-	33.5	20	19.25	f ₁ +w/2	16	42	25	100018
LH100.2020.21	20	20	125	-	33.5	20	19.25	f ₁ +w/2	21	42	25	100018
LH100.2525.21	25	25	150	-	33.5	25	24.3	f ₁ +w/2	21	42	30	100018

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	4.15T15P	T15PQ	5 Nm



R = right hand version shown

L = left hand version

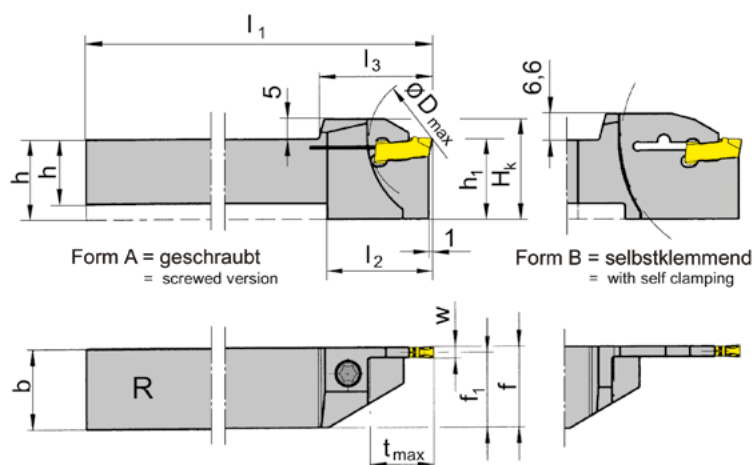
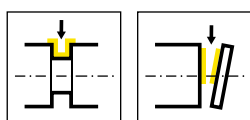
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
RH100.1212.01.IK	12	12	125	21	23	12	11.25	f ₁ +w/2	13	26	21	100018
RH100.1616.11.IK	16	16	125	24	26	16	15.25	f ₁ +w/2	16	42	25	100018
RH100.1616.21.IK	16	16	125	30	33.5	16	15.25	f ₁ +w/2	21	42	25	100018
RH100.2020.11.IK	20	20	125	-	33.5	20	19.25	f ₁ +w/2	16	42	25	100018
RH100.2020.21.IK	20	20	125	-	33.5	20	19.25	f ₁ +w/2	21	42	25	100018
RH100.2525.21.IK	25	25	150	-	33.5	25	24.3	f ₁ +w/2	21	42	30	100018
LH100.1212.01.IK	12	12	125	21	23	12	11.25	f ₁ +w/2	13	26	21	100018
LH100.1212.11.IK	12	12	125	21	26	12	11.25	f ₁ +w/2	16	42	21	100018
LH100.1616.11.IK	16	16	125	24	26	16	15.25	f ₁ +w/2	16	42	25	100018
LH100.1616.21.IK	16	16	125	30	33.5	16	15.25	f ₁ +w/2	21	42	25	100018
LH100.2020.11.IK	20	20	125	-	33.5	20	19.25	f ₁ +w/2	16	42	25	100018
LH100.2525.21.IK	25	25	150	-	33.5	25	24.3	f ₁ +w/2	21	42	30	100018

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100...	4.15T15P	004.00.16	T15PQ	004.00.26	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	Form	HWS
RH100.1212.02	12	12	125	21	23	16	11.05	$f_1+w/2$	13	25	21	A	100028
RH100.1616.02	16	16	125	19	21	20	15.05	$f_1+w/2$	10.5	42	25	A	100028
RH100.1212.12	12	12	125	24	26	16	11.05	$f_1+w/2$	16	42	25	A	100028
RH100.1616.12	16	16	125	24	26	20	15.05	$f_1+w/2$	16	42	25	A	100028
RH100.2020.12	20	20	125	-	26	20	19.05	$f_1+w/2$	16	42	25	A	100028
RH100.1616.22	16	16	125	30	33.5	20	15.05	$f_1+w/2$	21	42	25	A	100028
RH100.2020.22	20	20	125	-	33.5	20	19.05	$f_1+w/2$	21	42	25	A	100028
RH100.2525.22	25	25	150	-	33.5	25	24.05	$f_1+w/2$	21	42	30	A	100028
RH100.2020.32	20	20	125	35	38.5	25	19.05	$f_1+w/2$	32.5	65	31.6	B	100028
LH100.1212.02	12	12	125	21	23	16	11.05	$f_1+w/2$	13	25	21	A	100028
LH100.1616.02	16	16	125	19	21	20	15.05	$f_1+w/2$	10.5	42	25	A	100028
LH100.1212.12	12	12	125	24	26	16	11.05	$f_1+w/2$	16	42	25	A	100028
LH100.1616.12	16	16	125	24	26	20	15.05	$f_1+w/2$	16	42	25	A	100028
LH100.2020.12	20	20	125	-	26	20	19.05	$f_1+w/2$	16	42	25	A	100028
LH100.1616.22	16	16	125	30	33.5	20	15.05	$f_1+w/2$	21	42	25	A	100028
LH100.2020.22	20	20	125	-	33.5	20	19.05	$f_1+w/2$	21	42	25	A	100028
LH100.2525.22	25	25	150	-	33.5	25	24.05	$f_1+w/2$	21	42	30	A	100028
LH100.2020.32	20	20	125	35	38.5	25	19.05	$f_1+w/2$	32.5	65	31.6	B	100028

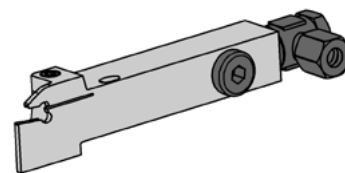
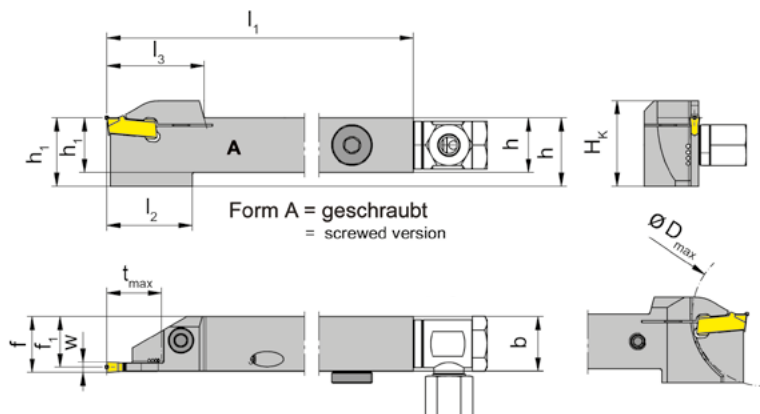
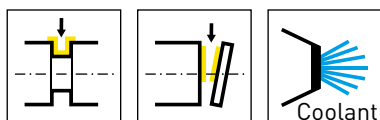
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LH100...	4.15T15P	T15PQ	-	5 Nm
R/LH100.2020.32	-	-	P39L	-



R = right hand version shown

L = left hand version

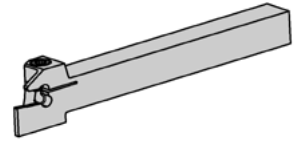
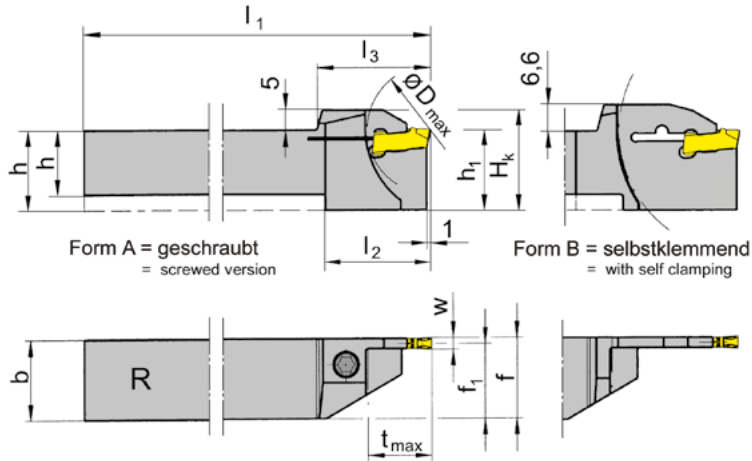
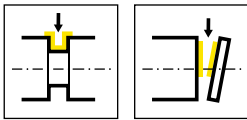
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RH100.1212.02.IK	12	12	125	21	23	16	11.05	f ₁ +w/2	13	25	21	A	100028
RH100.1616.02.IK	16	16	125	19	21	20	15.05	f ₁ +w/2	10.5	42	25	A	100028
RH100.1616.12.IK	16	16	125	24	28.5	20	15.05	f ₁ +w/2	16	42	25	A	100028
RH100.2020.12.IK	20	20	125	-	26	20	19.05	f ₁ +w/2	16	42	25	A	100028
RH100.1616.22.IK	16	16	125	30	33.5	20	15.05	f ₁ +w/2	21	42	25	A	100028
RH100.2020.22.IK	20	20	125	-	33.5	20	19.05	f ₁ +w/2	21	42	25	A	100028
RH100.2525.22.IK	25	25	150	-	33.5	25	24.05	f ₁ +w/2	21	42	30	A	100028
LH100.1212.02.IK	12	12	125	21	23	16	11.05	f ₁ +w/2	13	25	21	A	100028
LH100.1616.02.IK	16	16	125	19	21	20	15.05	f ₁ +w/2	10.5	42	25	A	100028
LH100.1616.12.IK	16	16	125	24	28.5	20	15.05	f ₁ +w/2	16	42	25	A	100028
LH100.2020.12.IK	20	20	125	-	26	20	19.05	f ₁ +w/2	16	42	25	A	100028
LH100.1616.22.IK	16	16	125	30	33.5	20	15.05	f ₁ +w/2	21	42	25	A	100028
LH100.2525.22.IK	25	25	150	-	33.5	25	24.05	f ₁ +w/2	21	42	30	A	100028

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100.1212.02.IK	4.15T15P	004.00.22	T15PQ	-	5 Nm
R/LH100...	4.15T15P	004.00.16	T15PQ	004.00.26	5 Nm
RH100.2020.22.IK	5.17T20P	004.00.16	T20PQ	004.00.26	6.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RH100.1212.03	12	12	125	21	23	16	10.85	f ₁ +w/2	13	26	25	A	100028
RH100.1616.03	16	16	125	19.5	23	20	14.85	f ₁ +w/2	10.5	42	25	A	100038
RH100.1616.13	16	16	125	25	28.5	20	14.85	f ₁ +w/2	16	42	25	A	100038
RH100.1616.23	16	16	125	30	33.5	20	14.85	f ₁ +w/2	21	42	25	A	100038
RH100.2020.13	20	20	125	-	28.5	20	18.85	f ₁ +w/2	16	42	25	A	100038
RH100.2020.23	20	20	125	-	33.5	20	18.85	f ₁ +w/2	21	42	25	A	100038
RH100.2020.33	20	20	125	35	38.5	25	18.85	f ₁ +w/2	32.5	65	31.6	B	100038
RH100.2525.13	25	25	150	-	28.5	25	23.85	f ₁ +w/2	16	42	30	A	100038
RH100.2525.23	25	25	150	-	33.5	25	23.85	f ₁ +w/2	21	42	30	A	100038
RH100.2525.33	25	25	150	-	38.5	25	23.85	f ₁ +w/2	32.5	65	31.6	B	100038
LH100.1212.03	12	12	125	21	23	16	10.85	f ₁ +w/2	13	26	25	A	100028
LH100.1616.03	16	16	125	19.5	23	20	14.85	f ₁ +w/2	10.5	42	25	A	100038
LH100.1616.13	16	16	125	25	28.5	20	14.85	f ₁ +w/2	16	42	25	A	100038
LH100.1616.23	16	16	125	30	33.5	20	14.85	f ₁ +w/2	21	42	25	A	100038
LH100.2020.13	20	20	125	-	28.5	20	18.85	f ₁ +w/2	16	42	25	A	100038
LH100.2020.23	20	20	125	-	33.5	20	18.85	f ₁ +w/2	21	42	25	A	100038
LH100.2020.33	20	20	125	35	38.5	25	18.85	f ₁ +w/2	32.5	65	31.6	B	100038
LH100.2525.13	25	25	150	-	28.5	25	23.85	f ₁ +w/2	16	42	30	A	100038
LH100.2525.23	25	25	150	-	33.5	25	23.85	f ₁ +w/2	21	42	30	A	100038
LH100.2525.33	25	25	150	-	38.5	25	23.85	f ₁ +w/2	32.5	65	31.6	B	100038

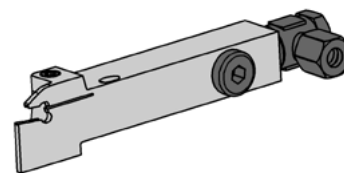
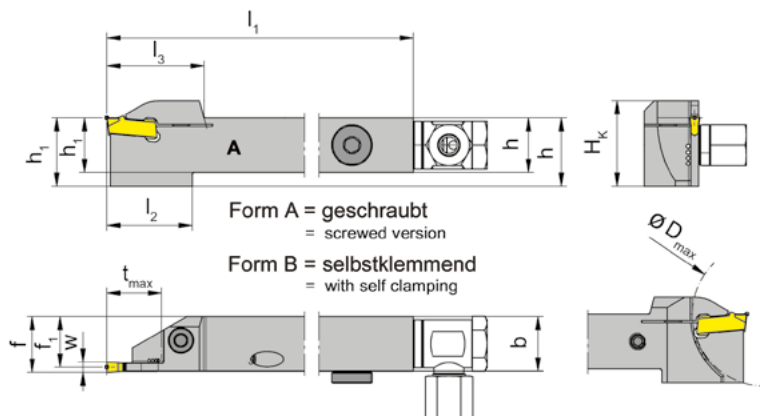
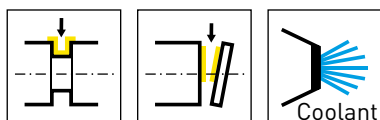
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LH100...	5.17T20P	T20PQ	-	6.5 Nm
R/LH100...33	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RH100.1212.03.IK	12	12	125	21	23	16	10.85	f ₁ +w/2	13	26	25	A	100038
RH100.1616.03.IK	16	16	125	19.5	23	20	14.85	f ₁ +w/2	10.5	42	25	A	100038
RH100.1616.13.IK	16	16	125	25	28.5	20	14.85	f ₁ +w/2	16	42	25	A	100038
RH100.2020.13.IK	20	20	125	-	28.5	20	18.85	f ₁ +w/2	16	42	25	A	100038
RH100.1616.23.IK	16	16	125	30	33.5	20	14.85	f ₁ +w/2	21	42	25	A	100038
RH100.2020.23.IK	20	20	125	-	33.5	20	18.85	f ₁ +w/2	21	42	25	A	100038
RH100.2020.33.IK	20	20	125	35	38.5	25	18.85	f ₁ +w/2	32.5	65	31.6	B	100038
RH100.2525.33.IK	25	25	150	-	38.5	25	23.85	f ₁ +w/2	32.5	65	31.6	B	100038
LH100.1212.03.IK	12	12	125	21	23	16	10.85	f ₁ +w/2	13	26	25	A	100038
LH100.1616.03.IK	16	16	125	19.5	23	20	14.85	f ₁ +w/2	10.5	42	25	A	100038
LH100.1616.13.IK	16	16	125	25	28.5	20	14.85	f ₁ +w/2	16	42	25	A	100038
LH100.2020.13.IK	20	20	125	-	28.5	20	18.85	f ₁ +w/2	16	42	25	A	100038
LH100.1616.23.IK	16	16	125	30	33.5	20	14.85	f ₁ +w/2	21	42	25	A	100038
LH100.2020.23.IK	20	20	125	-	33.5	20	18.85	f ₁ +w/2	21	42	25	A	100038
LH100.2525.23.IK	25	25	150	-	33.5	25	23.85	f ₁ +w/2	21	42	30	A	100038
LH100.2020.33.IK	20	20	125	35	38.5	25	18.85	f ₁ +w/2	32.5	65	31.6	B	100038
LH100.2525.33.IK	25	25	150	-	38.5	25	23.85	f ₁ +w/2	32.5	65	31.6	B	100038

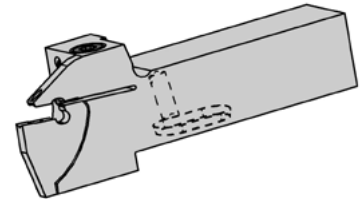
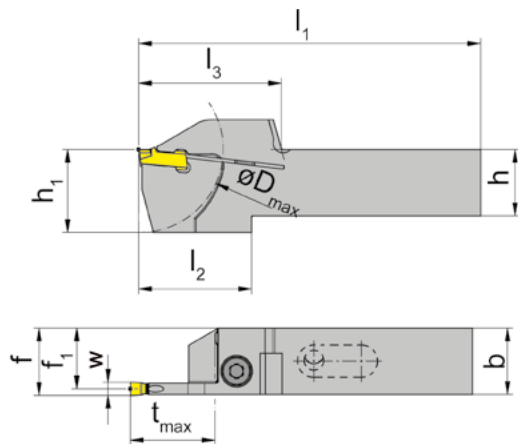
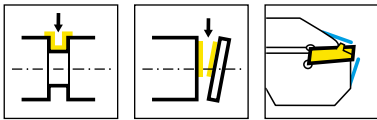
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100.1212.03.IK	5.17T20P	004.00.22	T20PQ	-	6.5 Nm
R/LH100...	5.17T20P	004.00.16	T20PQ	004.00.26	6.5 Nm
RH100.1616.23.IK	4.15T15P	004.00.16	T15PQ	004.00.26	5 Nm



R = right hand version shown

L = left hand version

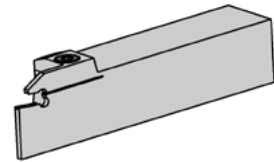
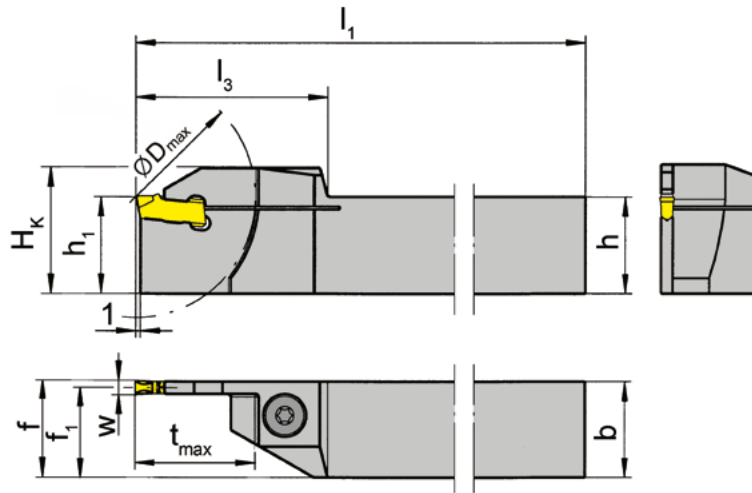
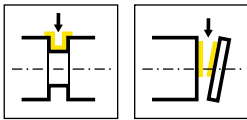
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	HWS
RH100.2020.2.23.IK	20	20	102	33	39	25	18.65	$f_1 + w/2$	21.5	42	100038
RH100.2020.2.73.IK	20	20	106	37	43	25	18.65	$f_1 + w/2$	25.5	50	100038
RH100.2525.2.73.IK	25	25	121	37	43	30	23.65	$f_1 + w/2$	25.5	50	100038
RH100.2020.34.4.73.IK	20	20	115	48	53	30	18.65	$f_1 + w/2$	34	68	100038
RH100.2525.34.4.73.IK	25	25	132	48	53	35	23.65	$f_1 + w/2$	34	68	100038
LH100.1616.2.23.IK	16	16	89	35	39	25	14.65	$f_1 + w/2$	21.5	42	100038
LH100.2020.2.23.IK	20	20	102	33	39	25	18.65	$f_1 + w/2$	21.5	42	100038
LH100.2020.2.73.IK	20	20	106	37	43	25	18.65	$f_1 + w/2$	25.5	50	100038
LH100.2525.2.73.IK	25	25	121	37	43	30	23.65	$f_1 + w/2$	25.5	50	100038
LH100.2020.34.4.73.IK	20	20	115	48	53	30	18.65	$f_1 + w/2$	34	68	100038
LH100.2525.34.4.73.IK	25	25	132	48	53	35	23.65	$f_1 + w/2$	34	68	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100....	6.23T25P	T25PQ	6 Nm



L = left hand version shown

R = right hand version

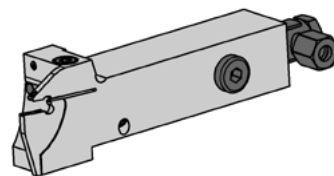
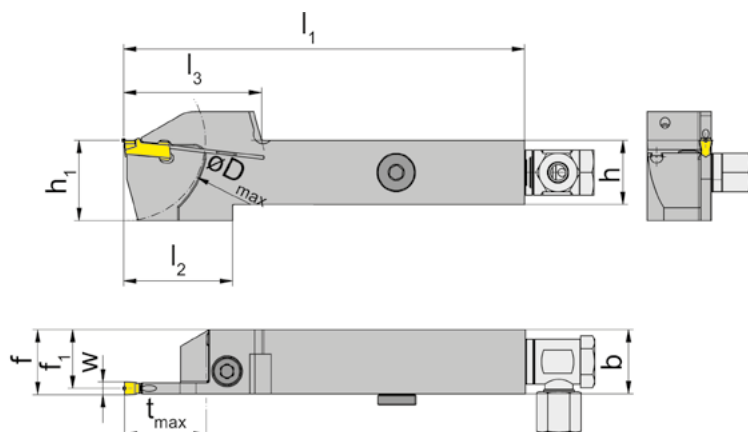
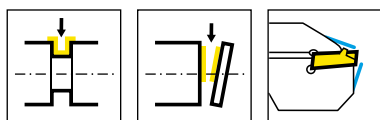
Part number	h	b	l_1	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	HWS
RH100.2020.73	20	20	125	40	20	18.85	$f_1 + w/2$	25	50	26	100038
RH100.2525.73	25	25	150	40	25	23.85	$f_1 + w/2$	25	50	31	100038
RH100.2020.74	20	20	125	40	20	18.85	$f_1 + w/2$	25	50	26	100048
LH100.2020.73	20	20	125	40	20	18.85	$f_1 + w/2$	25	50	26	100038
LH100.2525.73	25	25	150	40	25	23.85	$f_1 + w/2$	25	50	31	100038
LH100.2020.74	20	20	125	40	20	18.85	$f_1 + w/2$	25	50	26	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	6.23T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

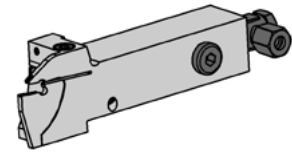
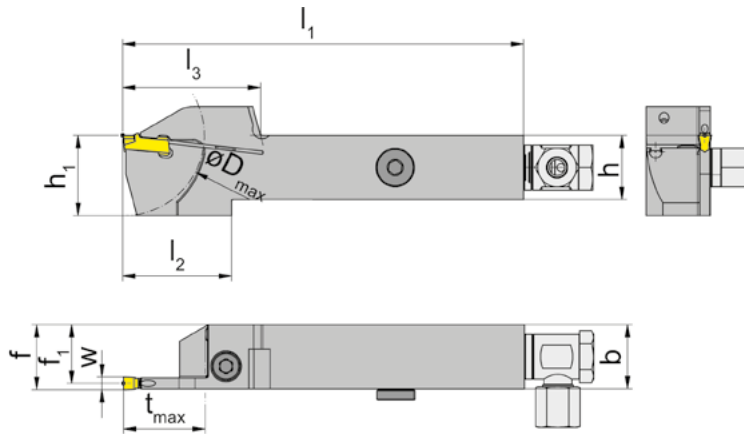
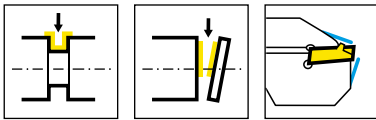
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RH100.1616.0.23.IK	16	20	125	35	39	25	14.65	f ₁ +w/2	21.5	42	100038
RH100.1616.0.24.IK	16	20	125	35	39	25	14.3	f ₁ +w/2	21.5	42	100048
RH100.2020.0.23.IK	20	20	125	33	39	25	18.65	f ₁ +w/2	21.5	42	100038
RH100.2020.0.24.IK	20	20	125	33	39	25	18.3	f ₁ +w/2	21.5	42	100048
RH100.2525.0.23.IK	25	25	150	33	39	30	23.65	f ₁ +w/2	21.5	42	100038
RH100.2525.0.24.IK	25	25	150	33	39	30	23.3	f ₁ +w/2	21.5	42	100048
LH100.1616.0.23.IK	16	16	125	35	39	25	14.65	f ₁ +w/2	21.5	42	100038
LH100.1616.0.24.IK	16	16	125	35	39	25	14.3	f ₁ +w/2	21.5	42	100048
LH100.2020.0.23.IK	20	20	125	33	39	25	18.65	f ₁ +w/2	21.5	42	100038
LH100.2020.0.24.IK	20	20	125	33	39	25	18.3	f ₁ +w/2	21.5	42	100048
LH100.2525.0.23.IK	25	25	150	33	39	30	23.65	f ₁ +w/2	21.5	42	100038
LH100.2525.0.24.IK	25	25	150	33	39	30	23.3	f ₁ +w/2	21.5	42	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100...	004.00.16	6.23T25P	T25PQ	004.00.26	7 Nm



R = right hand version shown

L = left hand version

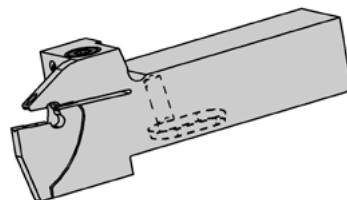
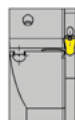
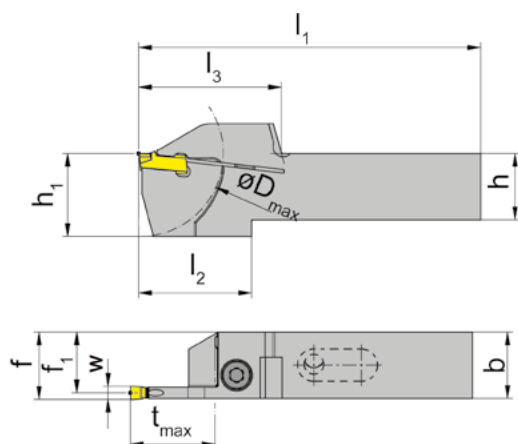
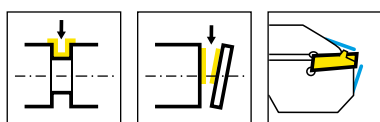
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RH100.2020.0.73.IK	20	20	125	37	43	25	18.65	f ₁ +w/2	25.5	50	100038
RH100.2525.0.73.IK	25	25	150	37	43	30	23.65	f ₁ +w/2	25.5	50	100038
RH100.2525.0.74.IK	25	25	150	37	43	30	23.3	f ₁ +w/2	25.5	50	100048
LH100.2020.0.73.IK	20	20	125	37	43	25	18.65	f ₁ +w/2	25.5	50	100038
LH100.2525.0.73.IK	25	25	150	37	43	30	23.65	f ₁ +w/2	25.5	50	100038
LH100.2525.0.74.IK	25	25	150	37	43	30	23.3	f ₁ +w/2	25.5	50	100048
LH100.2020.0.74.IK	20	20	125	37	43	25	18.3	f ₁ +w/2	25.5	50	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100....	004.00.16	6.23T25P	T25PQ	004.00.26	7 Nm



R = right hand version shown

L = left hand version

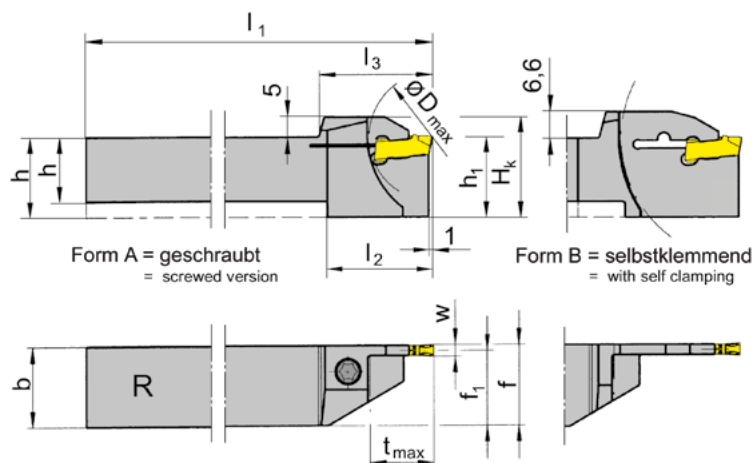
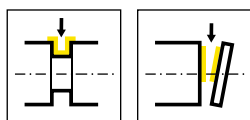
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	HWS
RH100.1616.2.24.IK	16	16	89	35	39	25	14.3	$f_1+w/2$	21.5	42	100048
RH100.2020.2.24.IK	20	20	102	33	39	25	18.3	$f_1+w/2$	21.5	42	100048
RH100.2020.2.74.IK	20	20	106	37	43	25	18.3	$f_1+w/2$	25.5	50	100048
LH100.1616.2.24.IK	16	16	89	35	39	25	14.3	$f_1+w/2$	21.5	42	100048
LH100.2020.2.24.IK	20	20	102	33	39	25	18.3	$f_1+w/2$	21.5	42	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	6.23T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RH100.1616.04	16	16	125	19.5	23	20	14.45	f ₁ +w/2	10.5	42	25	A	100048
RH100.1616.14	16	16	125	25	28.5	20	14.45	f ₁ +w/2	16	42	25	A	100048
RH100.2020.14	20	20	125	-	28.5	20	18.45	f ₁ +w/2	16	42	25	A	100048
RH100.2525.14	25	25	150	-	28.5	25	23.45	f ₁ +w/2	16	42	30	A	100048
RH100.2020.34	20	20	125	35	38.5	25	18.45	f ₁ +w/2	32.5	65	31.6	B	100048
RH100.2525.34	25	25	150	40	46.5	32	23.45	f ₁ +w/2	40.5	81	38.6	B	100048
LH100.1616.04	16	16	125	19.5	23	20	14.45	f ₁ +w/2	10.5	42	25	A	100048
LH100.1616.14	16	16	125	25	28.5	20	14.45	f ₁ +w/2	16	42	25	A	100048
LH100.2020.14	20	20	125	-	28.5	20	18.45	f ₁ +w/2	16	42	25	A	100048
LH100.2525.14	25	25	150	-	28.5	25	23.45	f ₁ +w/2	16	42	30	A	100048
LH100.2020.34	20	20	125	35	38.5	25	18.45	f ₁ +w/2	32.5	65	31.6	B	100048
LH100.2525.34	25	25	150	40	46.5	32	23.45	f ₁ +w/2	40.5	81	31.6	B	100048

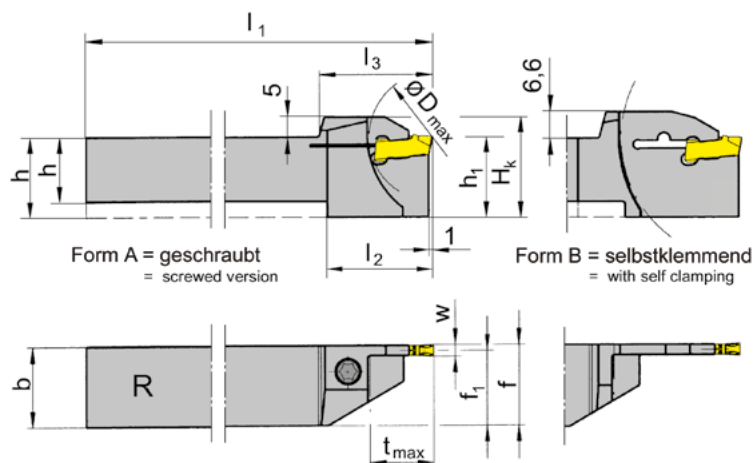
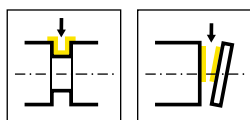
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench	Torque Value
R/LH100...	5.17T20P	T20PQ	-	6.5 Nm
R/LH100...34	-	-	P39L	-



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	Form	HWS
RH100.2020.15	20	20	125	-	28.5	20	18.05	$f_1 + w/2$	16	42	25	A	100058
RH100.2525.15	25	25	150	-	28.5	25	23.05	$f_1 + w/2$	16	42	30	A	100058
RH100.2020.35	20	20	125	35	38.5	20	18.05	$f_1 + w/2$	32.5	65	31.6	B	100058
RH100.2525.35	25	25	150	40	46.5	32	23.05	$f_1 + w/2$	40.5	81	38.6	B	100058
LH100.2020.15	20	20	125	-	28.5	20	18.05	$f_1 + w/2$	16	42	25	A	100058
LH100.2525.15	25	25	150	-	28.5	25	23.05	$f_1 + w/2$	16	42	30	A	100058
LH100.2020.35	20	20	125	35	38.5	25	18.05	$f_1 + w/2$	32.5	65	31.6	B	100058
LH100.2525.35	25	25	150	40	46.5	32	23.05	$f_1 + w/2$	40.5	81	38.6	B	100058

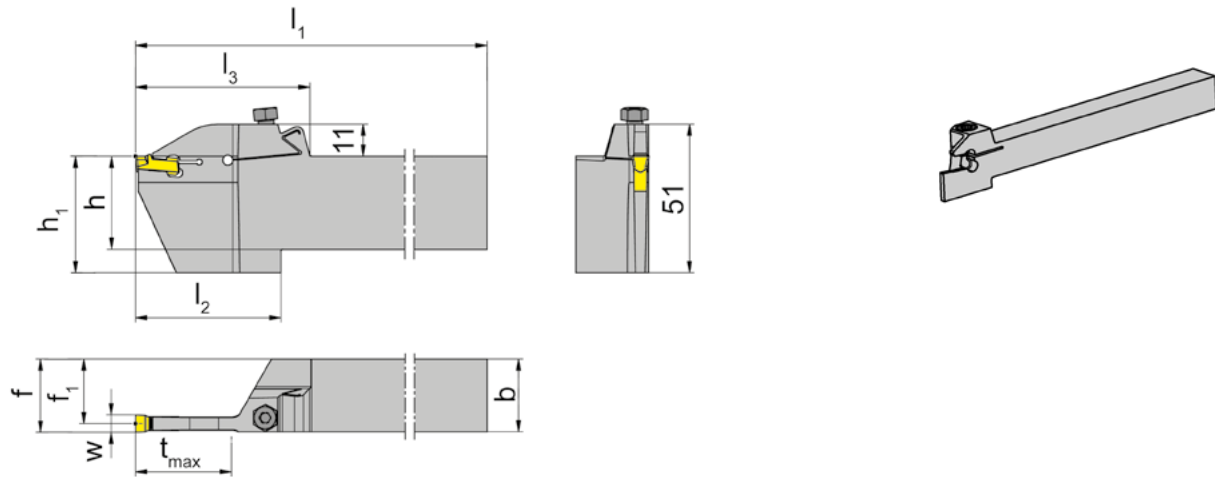
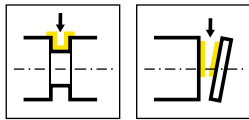
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100....	5.17T20P	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

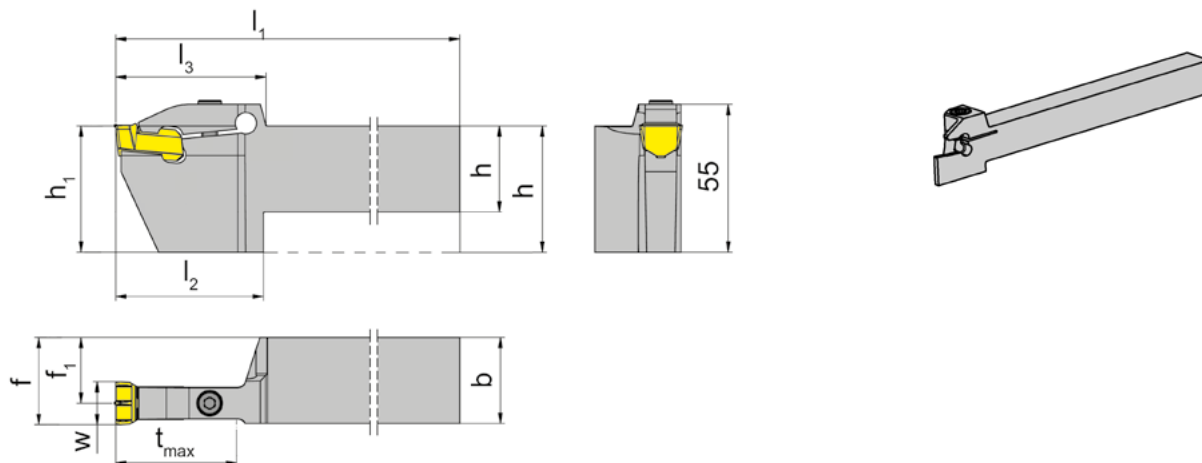
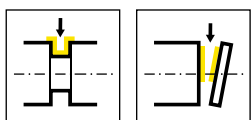
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	HWS
RH100.2020.3.04	20	20	150	50	60	32	18.2	$f_1+w/2$	33	100048
RH100.2020.3.05	20	20	150	50	60	32	17.7	$f_1+w/2$	33	100058
RH100.2525.3.05	25	25	150	50	60	32	22.7	$f_1+w/2$	33	100058
RH100.2525.3.06	25	25	150	50	60	40	22.2	$f_1+w/2$	33	100068
RH100.3225.3.06	32	25	170	50	60	40	22.2	$f_1+w/2$	33	100068
RH100.3225.3.08	32	25	170	50	60	40	21.2	$f_1+w/2$	33	100088
RH100.3225.38	32	25	170	50	60	40	21.2	$f_1+w/2$	35	100088
RH100.3225.4.08	32	25	170	55	65	40	21.2	$f_1+w/2$	41	100088
RH100.3225.4.10	32	25	170	55	65	40	20.3	$f_1+w/2$	41	100108
RH100.3225.4.12	32	25	170	55	65	40	19.3	$f_1+w/2$	41	100128
LH100.2020.3.04	20	20	150	50	60	32	18.2	$f_1+w/2$	33	100048
LH100.2020.3.05	20	20	150	50	60	32	17.7	$f_1+w/2$	33	100058
LH100.2525.3.05	25	25	150	50	60	32	22.7	$f_1+w/2$	33	100058
LH100.2525.3.06	25	25	150	50	60	40	22.2	$f_1+w/2$	33	100068
LH100.3225.3.06	32	25	170	50	60	40	22.2	$f_1+w/2$	33	100068
LH100.3225.3.08	32	25	170	50	60	40	21.2	$f_1+w/2$	33	100088
LH100.3225.38	32	25	170	50	60	40	21.2	$f_1+w/2$	35	100088
LH100.3225.4.08	32	25	170	55	65	40	21.2	$f_1+w/2$	41	100088
LH100.3225.4.10	32	25	170	55	65	40	20.3	$f_1+w/2$	41	100108
LH100.3225.4.12	32	25	170	55	65	40	19.3	$f_1+w/2$	41	100128

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	030.6075.T20P	T20PQ	5 Nm



R = right hand version shown

L = left hand version

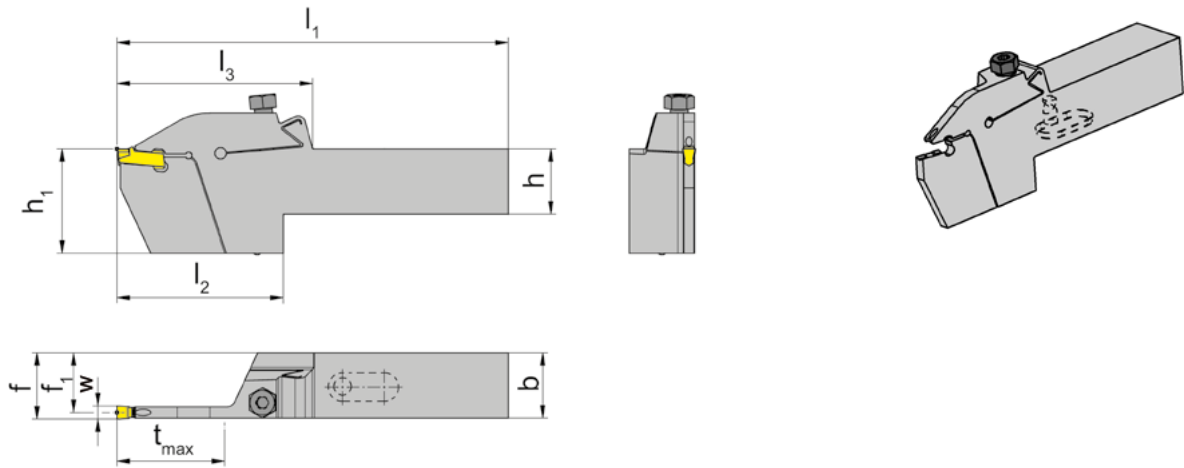
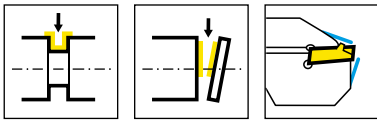
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	l_3	HWS
RH100.3232.5.16	32	32	170	55	47	24.5	$f_1+w/2$	45	56	100168
LH100.3232.5.16	32	32	170	55	47	24.5	$f_1+w/2$	45	56	100168

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100.3232.5.16	030.0625.T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

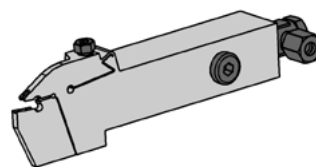
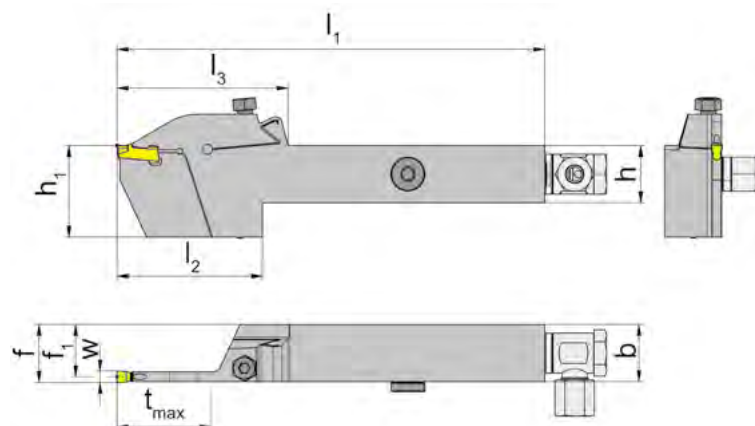
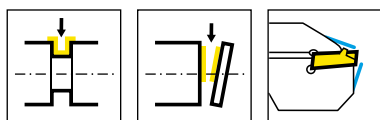
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	HWS
RH100.2020.3.2.04.IK	20	20	120	51	60	32	18.3	$f_1 + w/2$	33	100048
RH100.2525.3.2.04.IK	25	25	134	50	60	32	23.3	$f_1 + w/2$	33	100048
LH100.2020.3.2.04.IK	20	20	120	51	60	32	18.3	$f_1 + w/2$	33	100048
LH100.2525.3.2.04.IK	25	25	134	50	60	32	23.3	$f_1 + w/2$	33	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	030.6075.T20P	T20PQ	5 Nm



R = right hand version shown

L = left hand version

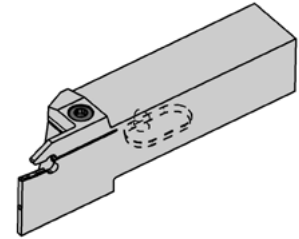
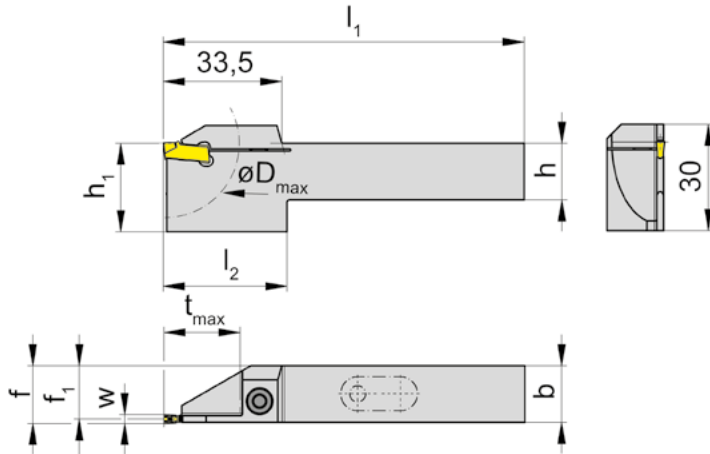
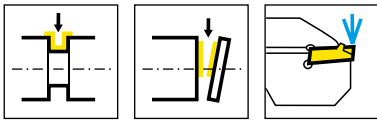
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	HWS
RH100.2020.3.0.04.IK	20	20	150	51	60	32	18.3	$f_1+w/2$	33	100048
RH100.2525.3.0.04.IK	25	25	150	50	60	32	23.3	$f_1+w/2$	33	100048
LH100.2020.3.0.04.IK	20	20	150	51	60	32	18.3	$f_1+w/2$	33	100048
LH100.2525.3.0.04.IK	25	25	150	50	60	32	23.3	$f_1+w/2$	33	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100...	004.00.16	030.6075.T20P	T20PQ	004.00.26	5 Nm



R = right hand version shown

L = left hand version

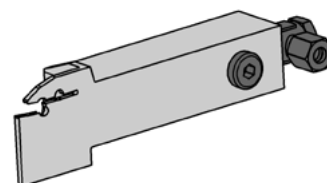
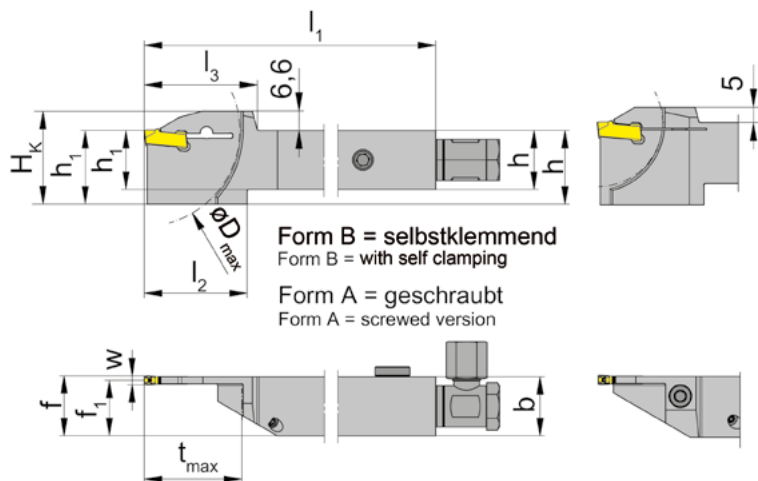
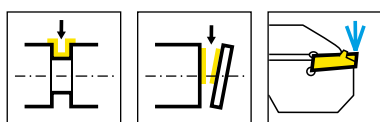
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
RH100.2020.3.22.IK	20	20	102	35	25	19.05	$f_1+w/2$	21.5	42	100029
LH100.1616.3.22.IK	16	16	89	35	25	15.05	$f_1+w/2$	21.5	42	100029
LH100.2020.3.22.IK	20	20	102	35	25	19.05	$f_1+w/2$	21.5	42	100029

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	5.17T20P	T20PQ	6.5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RH100.1616.1.23.IK	16	16	125	35	33.5	27	14.85	f ₁ +w/2	21.5	42	32	A	100039
RH100.2020.1.13.IK	20	20	125	30	28.5	27	18.85	f ₁ +w/2	16	42	32	A	100039
RH100.2020.1.23.IK	20	20	125	35	33.5	27	18.85	f ₁ +w/2	21.5	42	32	A	100039
RH100.2020.1.33.IK	20	20	125	35	38.5	27	18.85	f ₁ +w/2	33	65	33.6	B	100039
RH100.2020.1.34.IK	20	20	125	35	38.5	27	18.45	f ₁ +w/2	33	65	33.6	B	100049
RH100.2525.1.33.IK	25	25	150	35	38.5	32	23.85	f ₁ +w/2	33	65	38.6	B	100039
RH100.2525.1.34.IK	25	25	150	40	46.5	32	23.45	f ₁ +w/2	41	81	38.6	B	100049
LH100.1616.1.23.IK	16	16	125	35	33.5	27	14.85	f ₁ +w/2	21.5	42	32	A	100039
LH100.2020.1.13.IK	20	20	125	30	28.5	27	18.85	f ₁ +w/2	16	42	32	A	100039
LH100.2020.1.23.IK	20	20	125	35	33.5	27	18.85	f ₁ +w/2	21.5	42	32	A	100039
LH100.2020.1.33.IK	20	20	125	35	38.5	27	18.85	f ₁ +w/2	33	65	33.6	B	100039
LH100.2525.1.33.IK	25	25	150	35	38.5	32	23.85	f ₁ +w/2	33	65	38.6	B	100039
LH100.2525.1.34.IK	25	25	150	40	46.5	32	23.45	f ₁ +w/2	41	81	38.6	B	100049

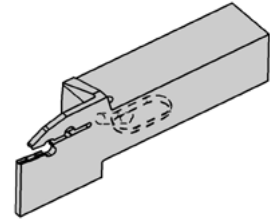
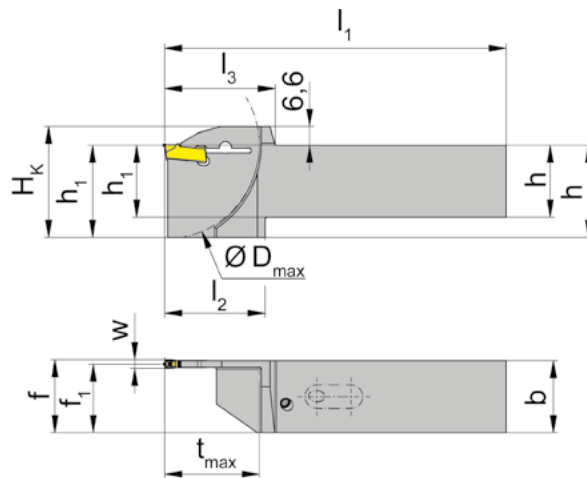
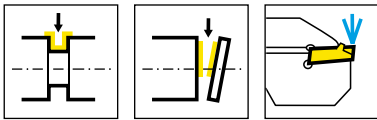
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH100...	5.17T20P	004.00.16	T20PQ	004.00.26	6.5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_K	HWS
RH100.2020.3.33.IK	20	20	104	35	38.5	27	18.85	$f_1 + w/2$	33	65	33.6	100039
RH100.2525.3.33.IK	25	25	119	35	38.5	32	23.85	$f_1 + w/2$	33	65	38.6	100039
LH100.2020.3.33.IK	20	20	104	35	38.5	27	18.85	$f_1 + w/2$	33	65	33.6	100039
LH100.2525.3.33.IK	25	25	119	35	38.5	32	23.85	$f_1 + w/2$	33	65	38.6	100039

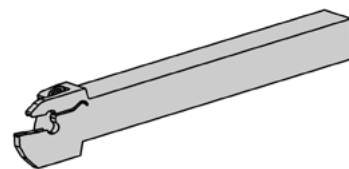
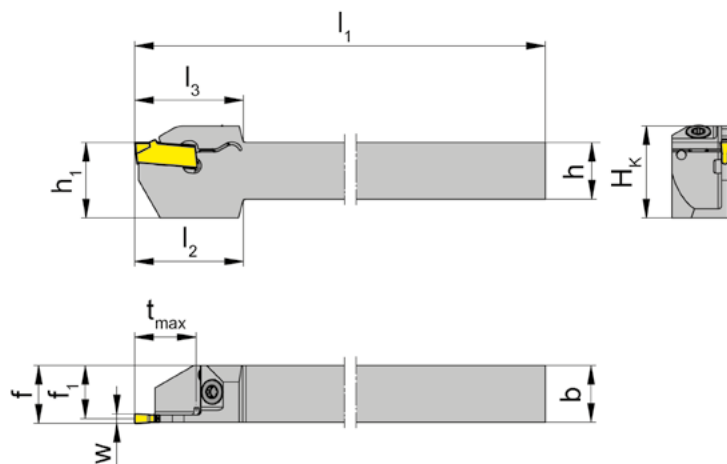
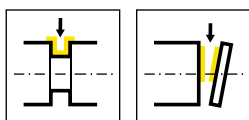
For the (w) dimension, see inserts

Wrench **P39L** is not combined with Form B holders - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...33.IK	P39L



R = right hand version shown

L = left hand version

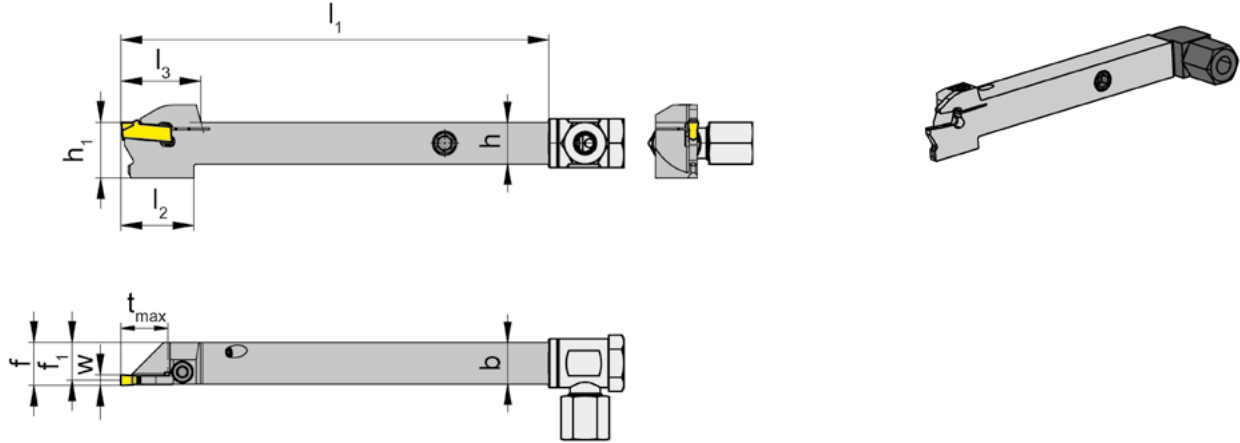
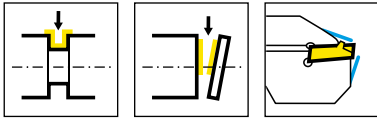
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	HWS
RH100.1212.24.61	12	12	125	23	23	16	11.25	$f_1+w/2$	13	26	19.5	100018
RH100.1616.32.63	16	16	125	27	-	16	14.85	$f_1+w/2$	17	34	19.5	100038
LH100.1212.24.61	12	12	125	23	23	16	11.25	$f_1+w/2$	13	26	19.5	100018
LH100.1212.32.63	12	12	125	24	27	16	10.85	$f_1+w/2$	17	34	19.5	100038
LH100.1616.32.63	16	16	125	-	27	16	14.85	$f_1+w/2$	17	34	19.5	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100....	3.5.12T10EP	T10PL	5 Nm



R = right hand version shown

L = left hand version

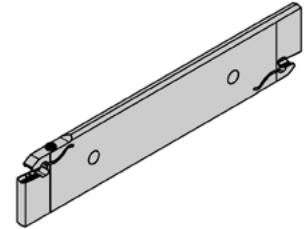
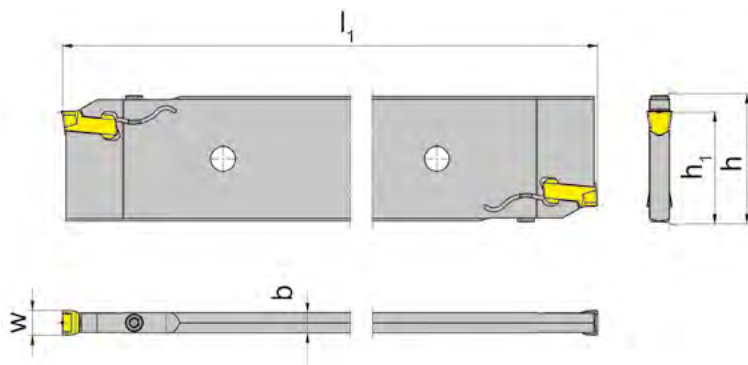
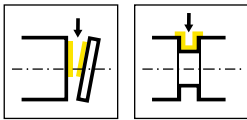
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	HWS
LH100.1212.5.23.IK	12	12	125	21	23	16	10.85	$f_1 + w/2$	13.5	26	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
LH100.1212.5.23.IK	4.15T15P	004.00.61	T15PQ	5 Nm



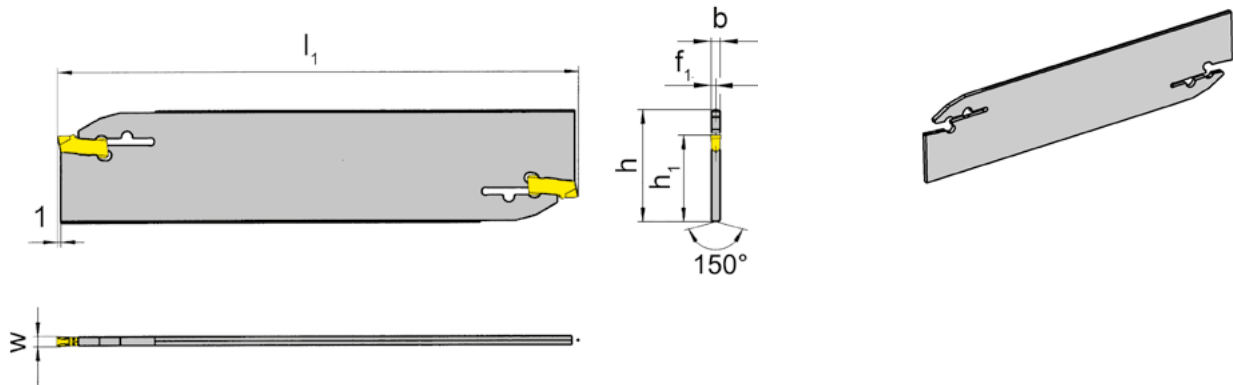
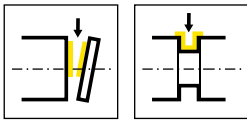
Part number	h	b	l ₁	h ₁	HWS
H100.5208.26.08	52.6	7.4	260	45	100088
H100.5210.26.10	52.6	8.2	260	45	100108
H100.5212.26.12	52.6	10.4	260	45	100128

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
H100...	5.13T20P	T20PQ	5 Nm



Part number	h	b	l_1	h_1	f_1	t_{max}	HWS
H100.2601.01	26	1.5	110	21.4	0.75	25	100018
H100.2602.02	26	1.9	110	21.4	0.95	37.5	100028
H100.2603.03	26	2.3	110	21.4	1.15	37.5	100038
H100.2604.04	26	3.1	110	21.8	1.65	40	100048
H100.3201.01	32	1.5	150	24.8	0.75	25	100018
H100.3202.02	32	1.9	150	24.8	0.95	50	100028
H100.3203.03	32	2.3	150	24.8	1.15	50	100038
H100.3204.04	32	3.1	160	24.8	1.65	55	100048
H100.3205.05	32	3.9	160	24.8	2	55	100058

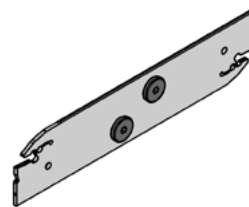
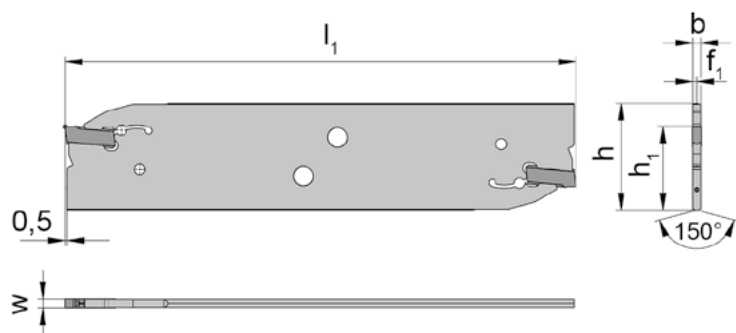
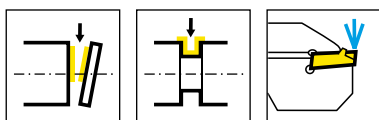
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...	P39L



Part number	h	b	l_1	h_1	f_1	t_{max}	HWS
H100.2602.8.02.IK	26	1.9	110	21.4	0.95	35	100029 • 100028
H100.2603.8.03.IK	26	2.3	110	21.4	1.15	35	100039 • 100038
H100.2604.8.04.IK	26	3.1	110	21.4	1.55	35	100049 • 100048
H100.3202.8.02.IK	32	1.9	150	24.8	0.95	55	100029 • 100028
H100.3203.8.03.IK	32	2.3	150	24.8	1.15	60	100039 • 100038
H100.3204.8.04.IK	32	3.1	150	24.8	1.55	60	100049 • 100048

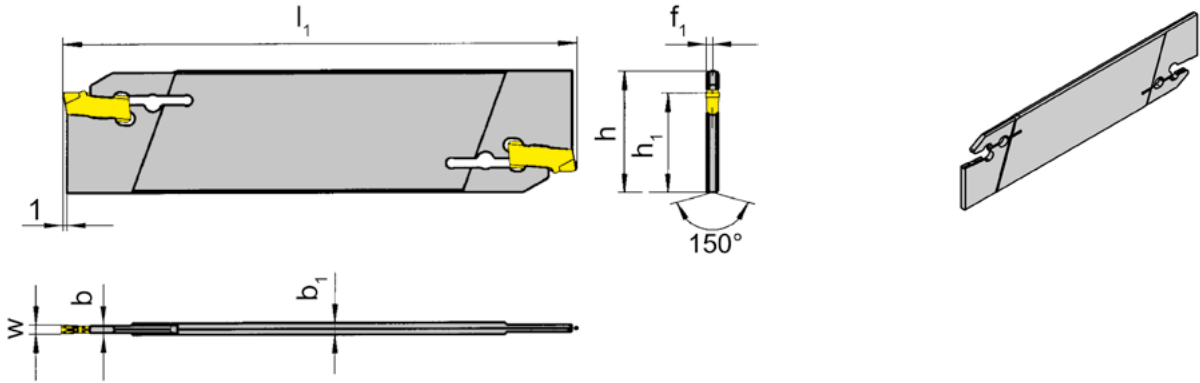
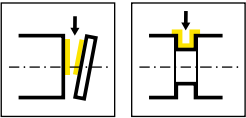
For the (w) dimension, see inserts

Wrench **P101.02** is not combined with the blade - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Coolant plug	Wrench
H100...	020.IK01.5732	P101.02



Part number	h	b	l ₁	h ₁	f ₁	t _{max}	b ₁	HWS
H100.2603.01	26	1.5	110	21.4	1.15	21	2.3	100018
H100.2603.02	26	1.9	110	21.4	1.15	21	2.3	100028
H100.3203.01	32	1.5	150	24.8	1.15	25	2.3	100018
H100.3203.02	32	1.9	150	24.8	1.15	25	2.3	100028

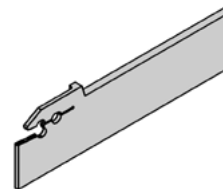
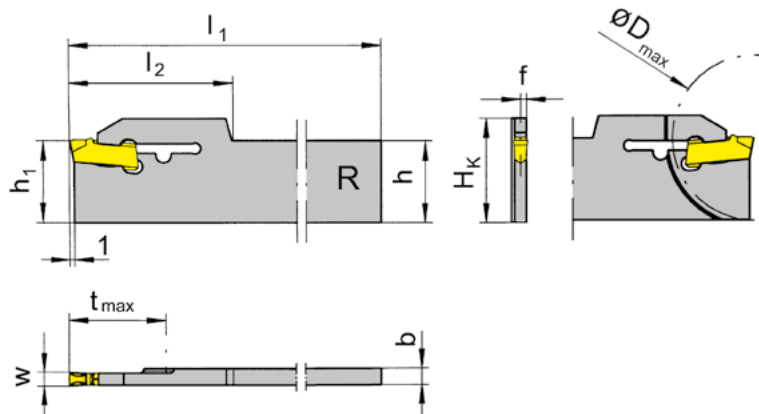
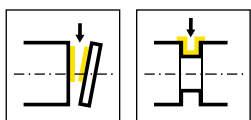
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...	P39L



R = right hand version

Part number	H _k	b	l ₁	h ₁	f	l ₂	t _{max}	D _{max}	h	HWS
RH100.1703.21	22.1	3.2	110	17.4	0.75	32	17.5	35	17.4	100018
RH100.2203.21	26.9	3.2	150	22.2	0.75	32	32	50	22.1	100018
RH100.1703.33	22.1	3.2	110	17.4	1.15	34.5	30	60	17.4	100038
RH100.2203.33	26.9	3.2	150	22.2	1.15	34.5	38	76	22.1	100038

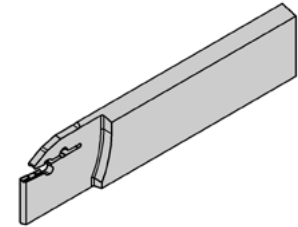
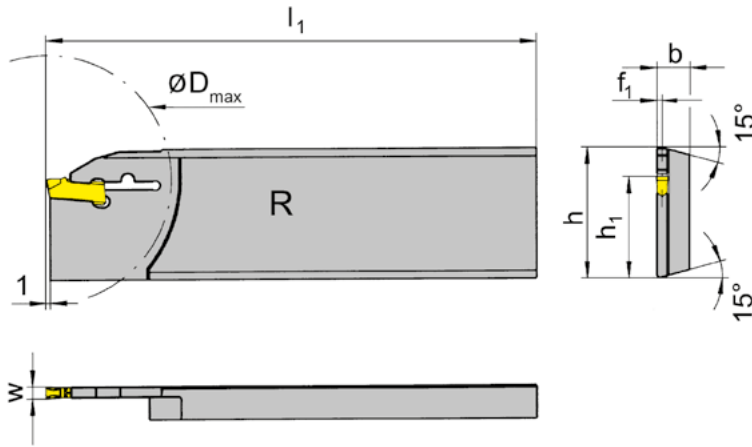
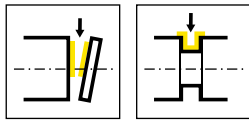
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the holder - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...	P39L



R = right hand version shown

L = left hand version

Part number	h	b	l_1	h_1	f_1	t_{max}	D_{max}	HWS
RH100.2608.31	26	7.9	110	21.4	0.75	21	42	100018
RH100.2608.32	26	7.9	110	21.4	0.95	25	50	100028
RH100.2608.33	26	7.9	110	21.4	1.15	25	50	100038
RH100.3208.31	32	7.9	112	24.8	0.75	25	50	100018
RH100.3208.32	32	7.9	112	24.8	0.95	34	68	100028
RH100.3208.33	32	7.9	112	24.8	1.15	34	68	100038
RH100.3208.34	32	7.9	112	24.8	1.55	34	68	100048
LH100.2608.31	26	7.9	110	21.4	0.75	21	42	100018
LH100.2608.32	26	7.9	110	21.4	0.95	25	50	100028
LH100.2608.33	26	7.9	110	21.4	1.15	25	50	100038
LH100.2608.34	26	7.9	110	21.4	1.55	25	50	100048
LH100.3208.31	32	7.9	112	24.8	0.75	25	50	100018
LH100.3208.32	32	7.9	112	24.8	0.95	34	68	100028
LH100.3208.33	32	7.9	112	24.8	1.15	34	68	100038
LH100.3208.34	32	7.9	112	24.8	1.55	34	68	100048

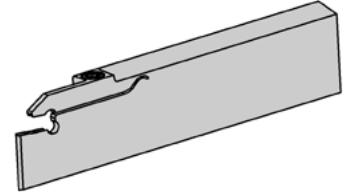
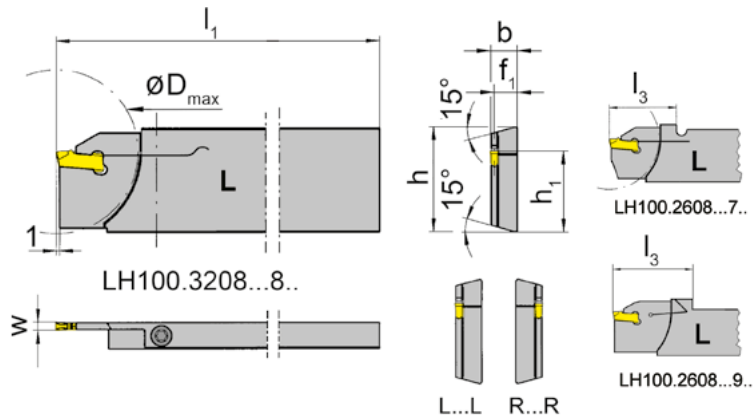
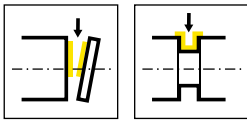
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...	P39L



L = left hand version shown

R = right hand version

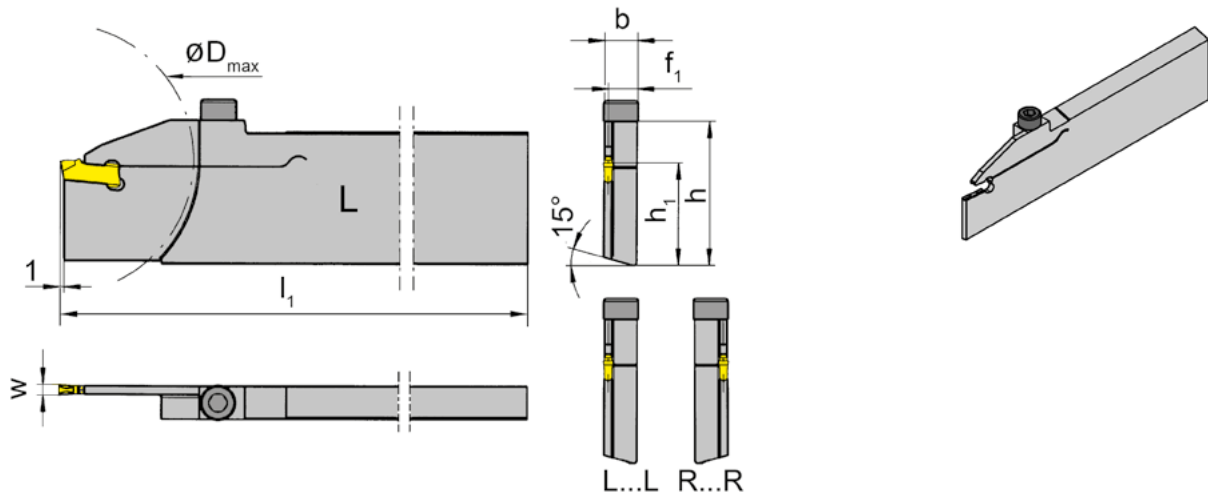
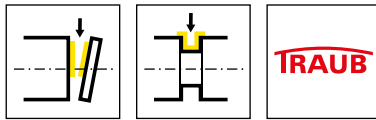
Part number	h	b	l_1	h_1	f_1	l_3	t_{max}	D_{max}	HWS
RH100.2608.71R	26	7.9	110	21.4	7.15	33.8	25	50	100018
RH100.3208.71R	32	7.9	112	24.8	7.15	33.8	25	50	100018
RH100.2608.72R	26	7.9	110	21.4	6.95	33.8	25	50	100028
RH100.3208.72R	32	7.9	112	24.8	6.95	33.8	25	50	100028
RH100.2608.93R	26	8	115	21.4	6.85	40	25	50	100038
RH100.3208.93R	32	8	115	24.8	6.85	42	32.5	65	100038
LH100.2608.71L	26	7.9	110	21.4	7.15	33.8	25	50	100018
LH100.3208.71L	32	7.9	112	24.8	7.15	33.8	25	50	100018
LH100.2608.72L	26	7.9	110	21.4	6.95	33.8	25	50	100028
LH100.3208.72L	32	7.9	112	24.8	6.95	33.8	25	50	100028
LH100.2608.93L	26	8	115	21.4	6.85	40	25	50	100038
LH100.3208.93L	32	8	115	24.8	6.85	42	32.5	65	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	4.15T15P	T15PQ	5 Nm
R/LH100...	030.0413.T15P	T15PQ	3 Nm



L = left hand version shown

R = right hand version

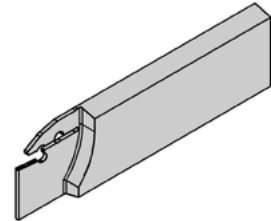
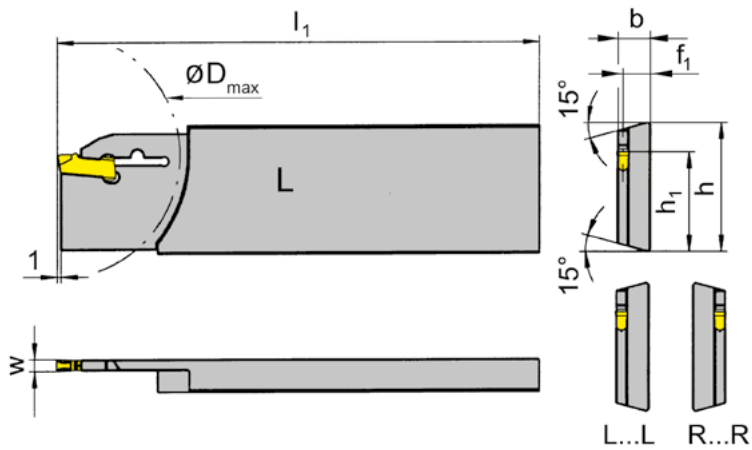
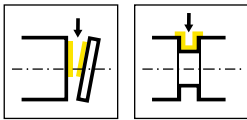
Part number	h	b	l_1	h_1	f_1	t_{max}	D_{max}	HWS
RH100.3280.73R	32	7.9	130	24.8	6.75	32.5	65	100038
RH100.3280.74R	32	7.9	130	24.8	6.35	32.5	65	100048
LH100.3280.73L	32	7.9	130	24.8	6.75	32.5	65	100038
LH100.3280.74L	32	7.9	130	24.8	6.35	32.5	65	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw
R/LH100...	DIN912-M5x20



L = left hand version shown

R = right hand version

Part number	h	b	l_1	h_1	f_1	t_{max}	D_{max}	HWS
RH100.2608.31R	26	7.9	110	21.4	7.15	21	42	100018
RH100.3208.31R	32	7.9	112	24.8	7.15	25	50	100018
RH100.2608.32R	26	7.9	110	21.4	6.95	25	50	100028
RH100.3208.32R	32	7.9	112	24.8	6.95	34	68	100028
RH100.2608.33R	26	7.9	110	21.4	6.75	25	50	100038
RH100.3208.33R	32	7.9	112	24.8	6.75	34	68	100038
RH100.3208.34R	32	7.9	112	24.8	6.35	34	68	100048
LH100.2608.31L	26	7.9	110	21.4	7.15	21	42	100018
LH100.3208.31L	32	7.9	112	24.8	7.15	25	50	100018
LH100.2608.32L	26	7.9	110	21.4	6.95	25	50	100028
LH100.3208.32L	32	7.9	112	24.8	6.95	34	68	100028
LH100.2608.33L	26	7.9	110	21.4	6.75	25	50	100038
LH100.3208.33L	32	7.9	112	24.8	6.75	34	68	100038
LH100.2608.34L	26	7.9	110	21.4	6.35	25	50	100048
LH100.3208.34L	32	7.9	112	24.8	6.35	34	68	100048

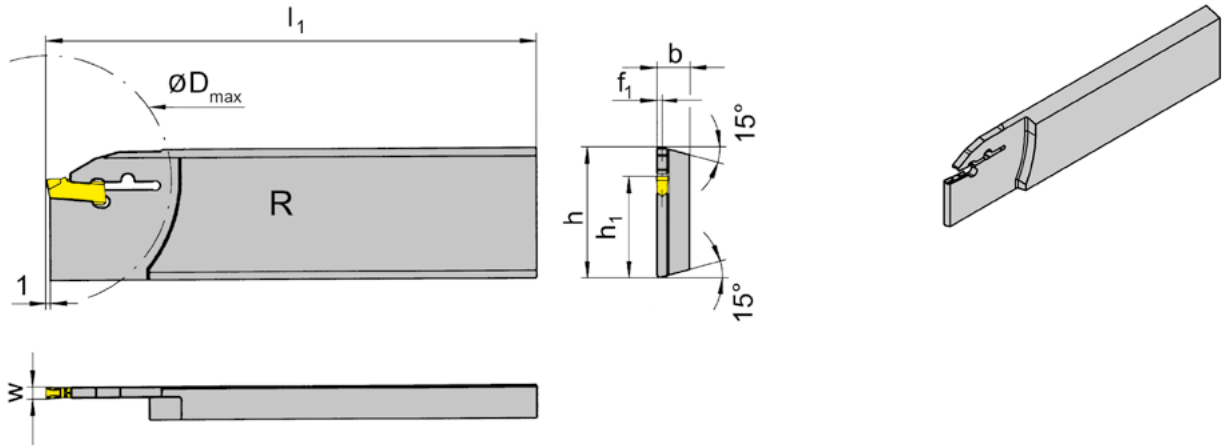
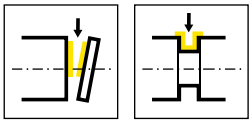
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required.

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH100...	P39L



R = right hand version

Part number	h	b	l ₁	h ₁	f ₁	t _{max}	D _{max}	HWS
RH100.3208.2.44	32	7.9	160	24.8	1.55	41	80	100048
RH100.3208.44	32	7.9	130	24.8	1.55	41	80	100048

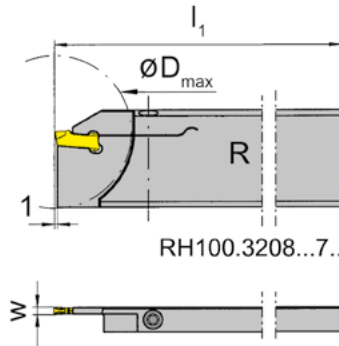
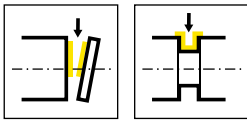
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required.

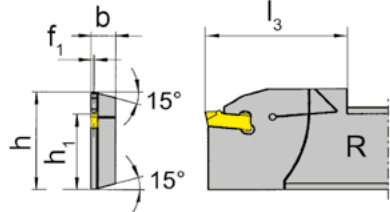
Dimensions in mm

Spare Parts

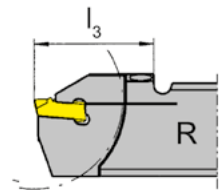
Toolholder	Wrench
R/LH100...	P39L



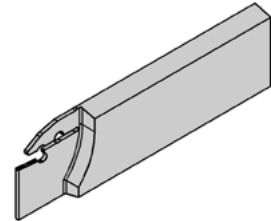
RH100.3208...7..



RH100.2608...9..



RH100.2608...7..



R = right hand version shown

L = left hand version

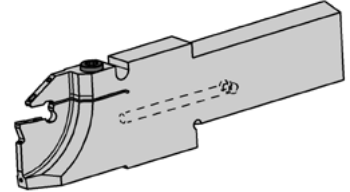
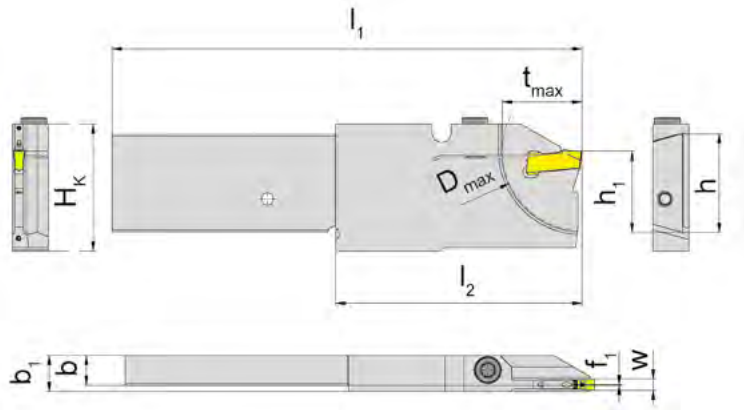
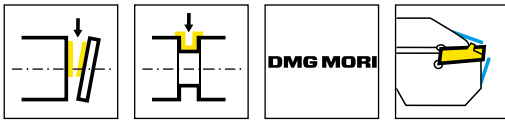
Part number	h	b	l_1	h_1	f_1	l_3	t_{max}	D_{max}	HWS
RH100.2608.71	26	7.9	110	21.4	0.75	33.8	25	50	100018
RH100.3208.71	32	7.9	112	24.8	0.75	33.8	25	50	100018
RH100.2608.72	26	7.9	110	21.4	0.95	33.8	25	50	100028
RH100.3208.72	32	7.9	112	24.8	0.95	33.8	25	50	100028
RH100.2608.93	26	8	112	21.4	1.15	40	25	50	100038
RH100.3208.93	32	8	112	24.8	1.15	40	32.5	65	100038
LH100.2608.71	26	7.9	110	21.4	0.75	33.8	25	50	100018
LH100.3208.71	32	7.9	112	24.8	0.75	33.8	25	50	100018
LH100.2608.72	26	7.9	110	21.4	0.95	33.8	25	50	100028
LH100.3208.72	32	7.9	112	24.8	0.95	33.8	25	50	100028
LH100.2608.93	26	8	112	21.4	1.15	40	25	50	100038
LH100.3208.93	32	8	112	24.8	1.15	40	32.5	65	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	4.15T15P	T15PQ	5 Nm
R/LH100...	030.0413.T15P	T15PQ	3 Nm



R = right hand version shown

L = left hand version

Part number	H _K	h	b	l ₁	h ₁	f ₁	t _{max}	l ₂	D _{max}	b ₁	HWS
RH100.2608.2.16.4.72.IK	33.6	26	7.9	124	21.4	0.2	16	65	32	9.5	100028
RH100.2608.2.16.4.72R.IK	33.6	26	7.9	124	21.4	6.4	16	65	32	9.5	100028
RH100.2608.2.21.4.73.IK	33.6	26	7.9	124	21.4	0.2	21	65	42	9.5	100038
RH100.2608.2.21.4.73R.IK	33.6	26	7.9	124	21.4	6.4	21	65	42	9.5	100038

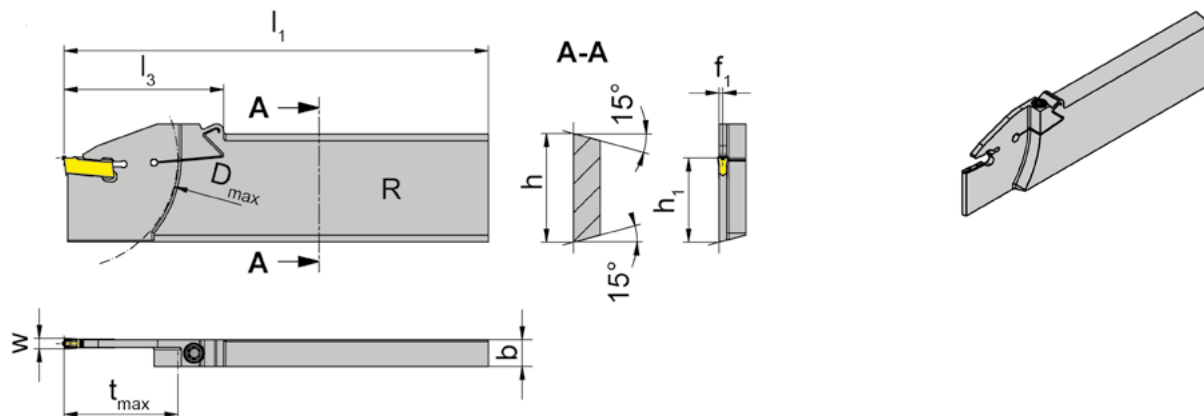
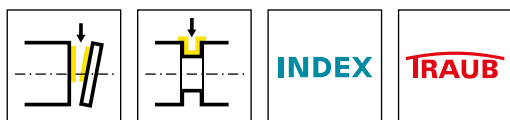
For DMG MORI (Multisprint)

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH100...	5.13T20P	T20PQ	5 Nm



R = right hand version shown

L = left hand version

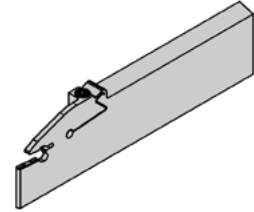
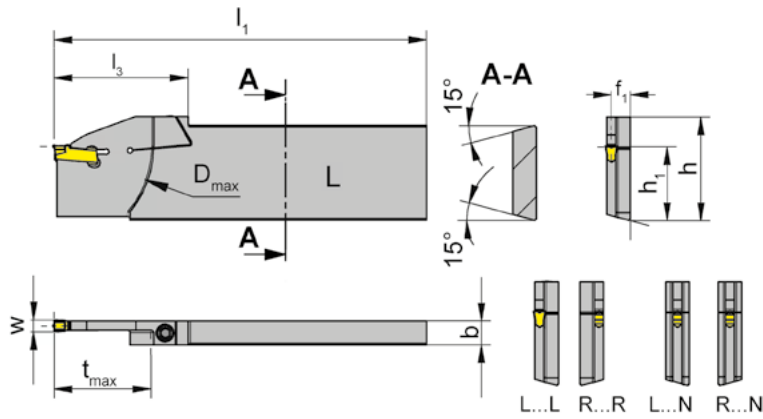
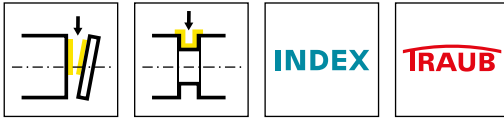
Part number	h	b	l_1	h_1	f_1	l_3	t_{max}	D_{max}	Machine type	HWS
RH100.3208.83	32	8	125	24.8	1.15	47	33.5	65	TraubTNX65/42, IndexC65/f	100038
LH100.3208.83	32	8	125	24.8	1.15	47	33.5	65	TraubTNX65/42, IndexC65/f	100038
LH100.3208.15.83	32	8	150	24.8	1.15	47	33.5	65	TraubTNX65/42, IndexC65/f	100038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH100...	030.505P.0718	T15PQ	5 Nm



L = left hand version shown

R = right hand version

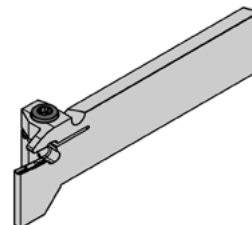
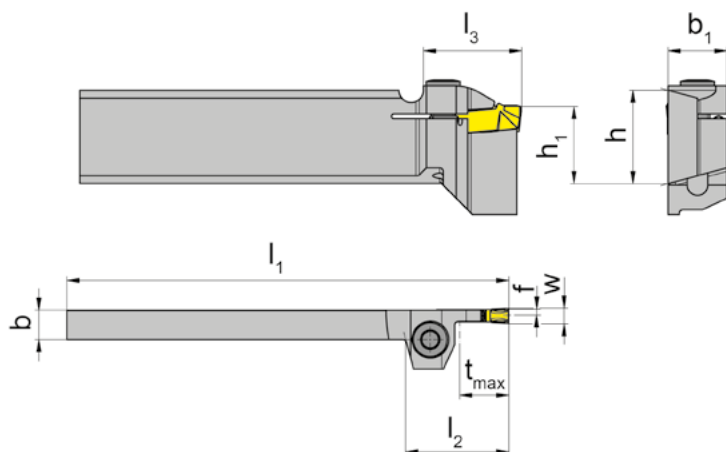
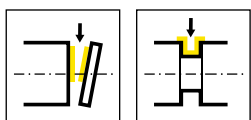
Part number	h	b	l ₁	h ₁	f ₁	l ₃	t _{max}	D _{max}	Machine type	HWS
RH100.3208.84R	32	8	125	24.8	6.5	47	33.5	65	TraubTNX65/42, IndexC65/†	100048
RH100.3208.84N	32	8	134	24.8	4	54.5	41	80	TraubTNX80/65/†	100048
LH100.3208.83L	32	8	125	24.8	6.85	47	33.5	65	TraubTNX65/42, IndexC65/†	100038
LH100.3208.84L	32	8	125	24.8	6.5	47	33.5	65	TraubTNX65/42, IndexC65/†	100048
LH100.3208.84N	32	8	134	24.8	4	54.5	41	80	TraubTNX80/65/†	100048

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH100.3208....	030.505P.0718	T15PQ	5 Nm



L = left hand version shown

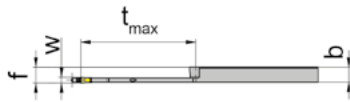
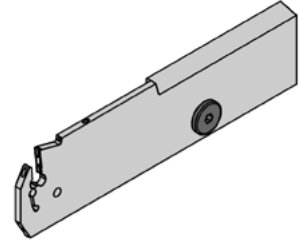
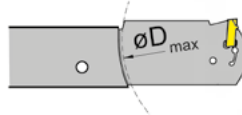
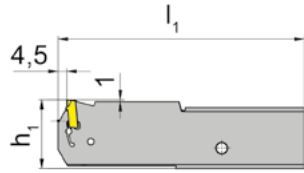
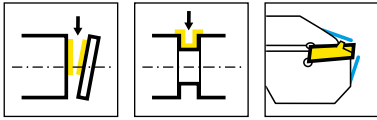
Part number	h	b	l ₁	h ₁	l ₂	f	l ₃	t _{max}	b ₁	HWS
LH100.1908.R.13	19	8	90	15.7	16	1.15	20	10	12	100038
LH100.3208.R.13	32	8	110	24.8	16	1.15	20	10	12	100038

For REIKA machines

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH100...	5.17T20P	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	b	l_1	h_1	f	t_{max}	D_{max}	HWS
RH100.3208.Y.60.4.83.IK	7.9	128.5	36	8.25	60	120	100038
RH100.3208.Y.60.4.84.IK	7.9	128.5	36	8.25	60	120	100048
LH100.3208.Y.60.4.83.IK	7.9	128.5	36	8.25	60	120	100038
LH100.3208.Y.60.4.84.IK	7.9	128.5	36	8.25	60	120	100048

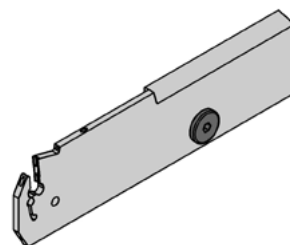
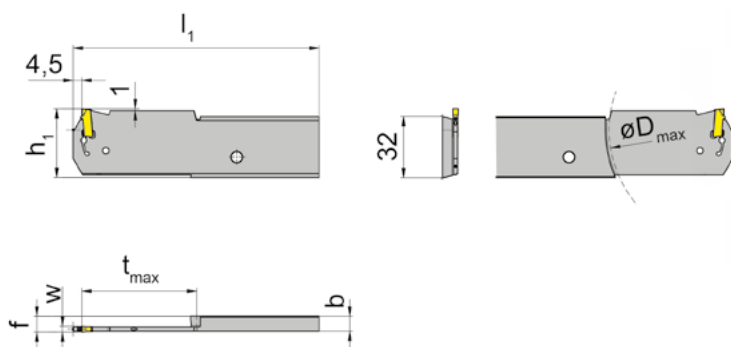
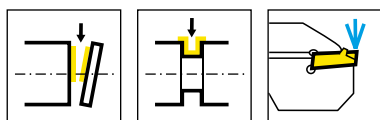
For the (w) dimension, see inserts

Wrench **P101.02** is not combined with the cutter - a separate order is required.

Dimensions in mm

Spare Parts

Toolholder	Wrench	Coolant plug
R/LH100...	P101.02	020.IK01.5732



R = right hand version shown

L = left hand version

Part number	b	l ₁	h ₁	f	t _{max}	D _{max}	HWS
RH100.3208.Y.60.3.83.IK	7.9	128.5	36	8.25	60	120	100039 • 100038
RH100.3208.Y.60.3.84.IK	7.9	128.5	36	8.25	60	120	100049 • 100048
LH100.3208.Y.60.3.83.IK	7.9	128.5	36	8.25	60	120	100039 • 100038
LH100.3208.Y.60.3.84.IK	7.9	128.5	36	8.25	60	120	100049 • 100048

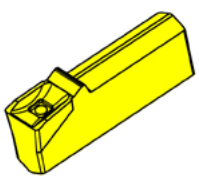
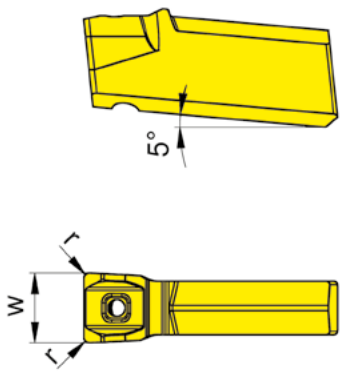
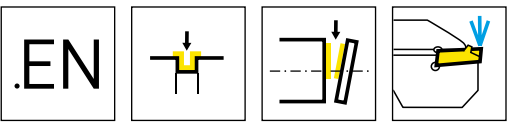
For the (w) dimension, see inserts

Wrench **P101.02** is not combined with the cutter - a separate order is required.

Dimensions in mm

Spare Parts

Toolholder	Wrench	Coolant plug
R/LH100...	P101.02	020.IK01.5732

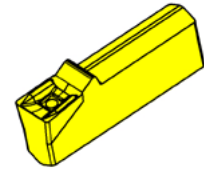
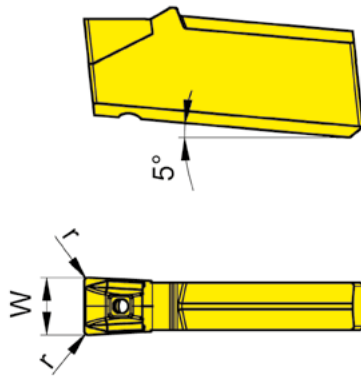
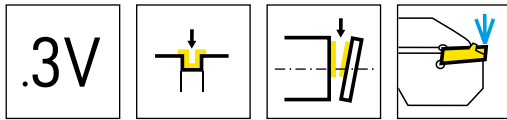


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		AS45	EG55	HP65
S100.0250.EN2.IK	2.5	0.2	100029		▲	▲	▲
S100.0300.EN2.IK	3	0.2	100039		▲	▲	▲
S100.0400.EN3.IK	4	0.3	100049		▲	▲	▲
Dimensions in mm				P	●	●	●
				M	o	●	●
				K	o	o	●
				N	-	-	o
				S	-	-	●
				H	-	-	-



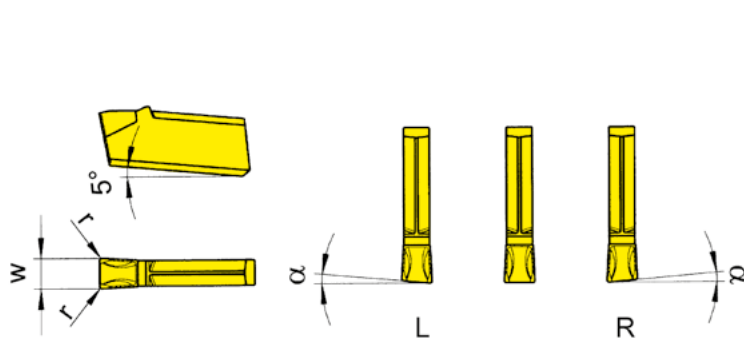
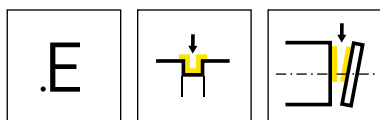
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		HP65	IG35
S100.0250.3V2.IK	2.5	0.2	100029	▲	▲	▲
S100.0300.3V2.IK	3	0.2	100039	▲	▲	▲
				P	●	●
				M	●	●
				K	●	●
				N	○	○
				S	●	○
				H	-	-

Dimensions in mm



Coating grades

R = right hand version

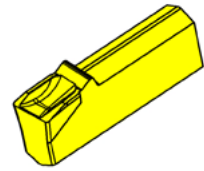
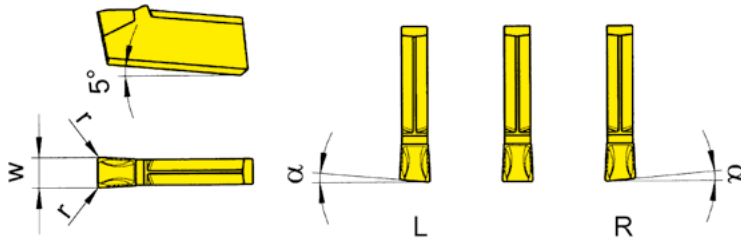
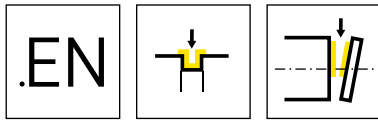
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	ALX3	AS63	AS66	TF42	TF43	TF45	TF46
RS100.0520.E2	2	0.2	5°	100018					▲	▲	▲
RS100.0525.E2	2.5	0.2	5°	100028					▲	▲	▲
RS100.0530.E2	3	0.2	5°	100038	▲			▲	▲	▲	▲
RS100.0540.E2	4	0.2	5°	100048	Δ				▲	▲	▲
LS100.0520.E2	2	0.2	5°	100018					▲	▲	Δ
LS100.0525.E2	2.5	0.2	5°	100028					Δ	Δ	▲
LS100.0530.E2	3	0.2	5°	100038	▲			Δ	▲	▲	▲
LS100.0540.E2	4	0.2	5°	100048					▲	▲	▲
S100.0200.E2	2	0.2	0°	100018	▲				▲	▲	▲
S100.0250.E2	2.5	0.2	0°	100028					▲	▲	▲
S100.0300.E2	3	0.2	0°	100038	▲	▲	▲	▲	▲	▲	▲
S100.0400.E3	4	0.3	0°	100048	▲				▲	▲	▲
S100.0500.E3	5	0.3	0°	100058					▲	▲	▲
P	●	●	●	●	●	●	●	●	●	●	●
M	-	○	●	-	-	-	-	-	-	-	-
K	-	○	○	-	-	-	-	-	-	-	-
N	-	-	-	-	-	-	-	-	-	-	-
S	-	-	-	-	-	-	-	-	-	-	-
H	-	-	-	-	-	-	-	-	-	-	-

Dimensions in mm



Coating grades

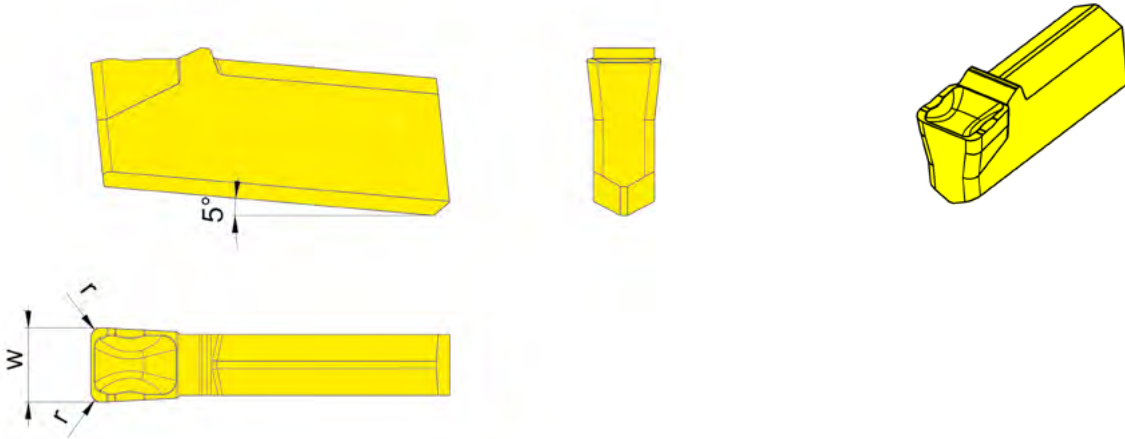
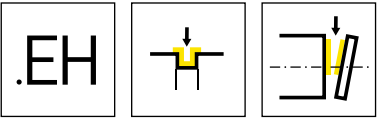
R = right hand version

L = left hand version

▲ In stock

Δ 2 weeks

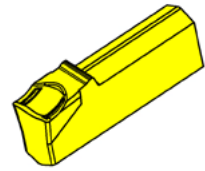
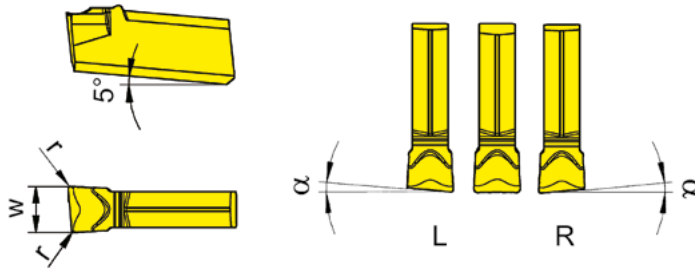
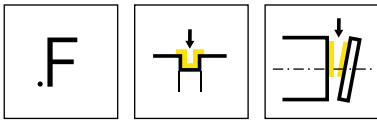
Part number	w	r	α	HIS		ALX3	AS62	AS63	AS66	AS6G
RS100.0530.EN2	3	0.2	5°	100038			Δ		Δ	
RS100.0540.EN2	4	0.2	5°	100048	▲					
LS100.0540.EN2	4	0.2	5°	100048	▲					
S100.0200.EN2	2	0.2	0°	100018	▲					▲
S100.0220.EN2	2.2	0.2	0°	100018						▲
S100.0250.EN2	2.5	0.2	0°	100028						▲
S100.0300.EN2	3	0.2	0°	100038	▲			▲	▲	▲
S100.0400.EN3	4	0.3	0°	100048	▲			▲		▲
S100.0500.EN3	5	0.3	0°	100058	▲					
S100.0600.EN6	6	0.6	0°	100068						▲
S100.0800.EN8	8	0.8	0°	100088						▲
S100.1000.EN8	10	0.8	0°	100108						▲
S100.1200.EN8	12	0.8	0°	100128						▲
S100.1600.EN8	16	0.8	0°	100168						▲
Dimensions in mm					P	●	●	●	●	●
					M	-	○	○	●	●
					K	-	○	○	○	○
					N	-	-	-	-	-
					S	-	-	-	-	-
					H	-	-	-	-	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	IG6	
S100.0300.EH4	3	0.4	100038	▲	
S100.0400.EH6	4	0.6	100048	▲	
Dimensions in mm				P	●
				M	o
				K	o
				N	-
				S	-
				H	-



Coating grades

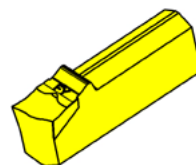
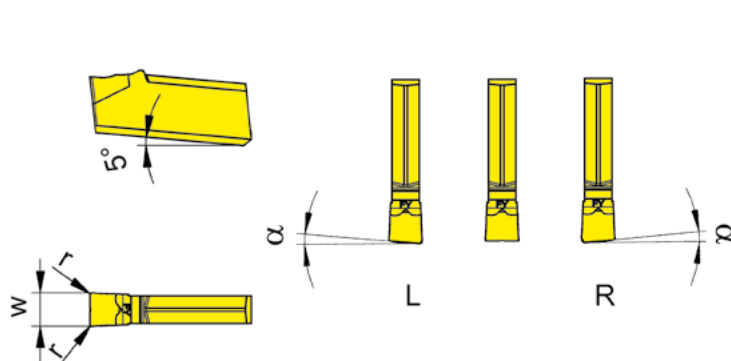
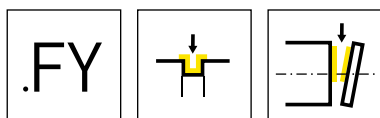
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	TF43	TF45	TF46
RS100.0520.F2	2	0.2	5°	100018	Δ	▲	
RS100.0525.F2	2.5	0.2	5°	100028	Δ	▲	Δ
RS100.0530.F2	3	0.2	5°	100038	▲	▲	▲
RS100.0540.F2	4	0.2	5°	100048		▲	
LS100.0520.F2	2	0.2	5°	100018	Δ		
LS100.0530.F2	3	0.2	5°	100038		▲	
LS100.0540.F2	4	0.2	5°	100048	▲	▲	
S100.0250.F2	2.5	0.2	0°	100028		▲	▲
S100.0300.F2	3	0.2	0°	100038	▲	▲	▲
S100.0400.F3	4	0.3	0°	100048	▲	▲	▲
S100.0500.F3	5	0.3	0°	100058	▲	▲	▲
Dimensions in mm					P	●	o
					M	-	-
					K	-	-
					N	-	-
					S	-	-
					H	-	-



Coating grades

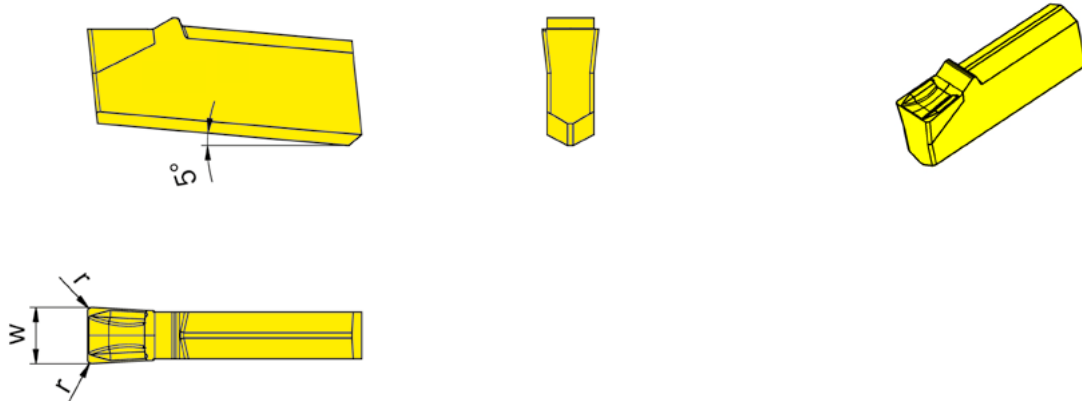
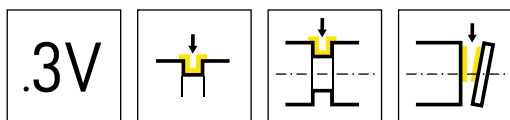
R = right hand version

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS		AS45	HP65	IG35	Ti25
RS100.1520.FY0	2	-	15°	100018	▲			▲	
RS100.1530.FY0	3	-	15°	100038	▲			▲	
LS100.1520.FY0	2	-	15°	100018	▲			▲	
LS100.1530.FY0	3	-	15°	100038	▲			▲	
S100.0200.FY2	2	0.2	0°	100018			▲	▲	▲
S100.0220.FY2	2.2	0.2	0°	100018				▲	▲
S100.0250.FY2	2.5	0.2	0°	100028			▲	▲	▲
S100.0300.FY2	3	0.2	0°	100038			▲	▲	▲
S100.0400.FY3	4	0.3	0°	100048			▲	▲	▲
Dimensions in mm					P	•	•	•	•
					M	o	•	•	•
					K	o	•	•	-
					N	-	o	o	o
					S	-	•	o	-
					H	-	-	-	-

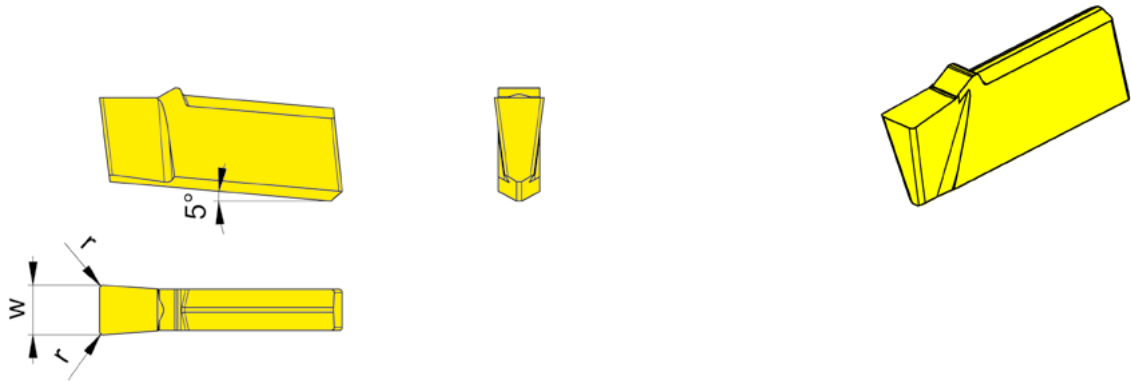
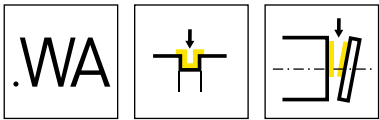


Coating grades

▲ In stock

Δ 2 weeks

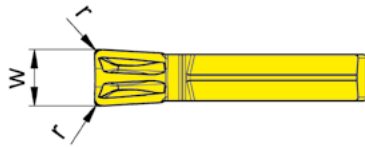
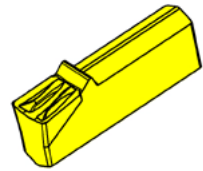
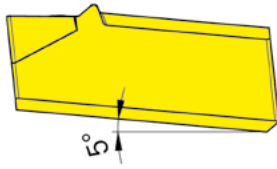
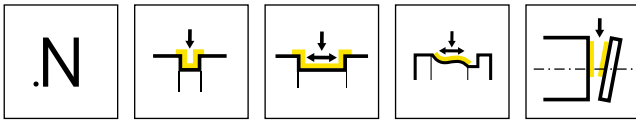
Part number	w	r	HIS		AS45	HP65	IG35	IG65	IG6G
S100.0200.3V2	2	0.2	100018		▲	▲	▲	▲	
S100.0250.3V2	2.5	0.2	100028		▲	▲	▲	▲	
S100.0300.3V2	3	0.2	100038		▲	▲	▲	▲	▲
S100.0400.3V3	4	0.3	100048		▲	▲	▲	▲	
Dimensions in mm				P	•	•	•	•	•
				M	o	•	•	•	o
				K	o	•	•	•	o
				N	-	o	o	-	-
				S	-	•	o	o	-
				H	-	-	-	-	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		K10	DD26
S100.0200.WA2	2	0.2	100018	▲	▲	▲
S100.0300.WA2	3	0.2	100038	▲	▲	▲
Dimensions in mm				P	●	-
				M	●	-
				K	-	-
				N	-	●
				S	●	o
				H	-	-

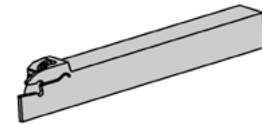
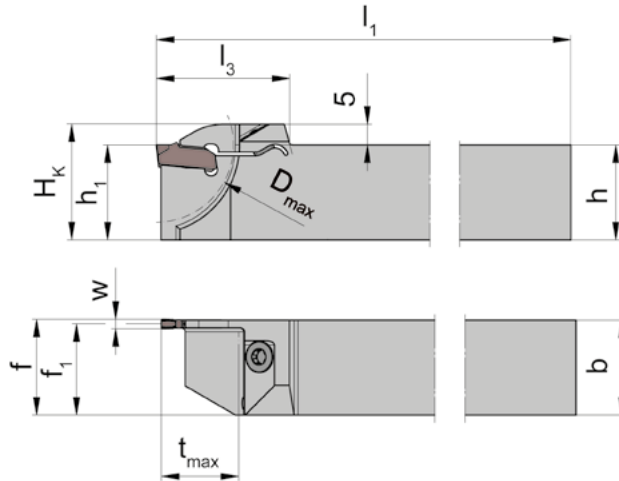
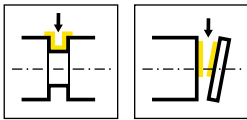


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS45	HP65
S100.0300.N2	3	0.2	100038	▲	▲
S100.0400.N3	4	0.3	100048	▲	▲
Dimensions in mm				P	●
				M	○
				K	○
				N	-
				S	-
				H	-



L = left hand version shown

R = right hand version

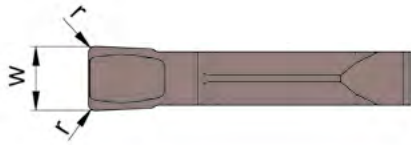
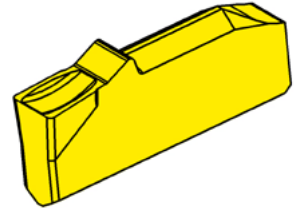
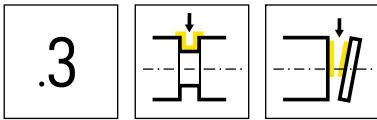
Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	t _{max}	H _K	D _{max}	HWS
RH101.1010.1.12	10	10	125	22.5	10	9.53	f ₁ +w/2	13	13.5	26	10112
RH101.1212.1.12	12	12	125	22.5	12	11.53	f ₁ +w/2	13	15.5	26	10112
RH101.1616.1.12	16	16	125	22.5	16	15.53	f ₁ +w/2	13	19.5	26	10112
RH101.1212.1.16	12	12	125	22.5	12	11.35	f ₁ +w/2	13	15.5	26	10116
RH101.1616.1.16	16	16	125	22.5	16	15.35	f ₁ +w/2	13	19.5	26	10116
LH101.1212.1.12	12	12	125	22.5	12	11.53	f ₁ +w/2	13	15.5	26	10112
LH101.1616.1.12	16	16	125	22.5	16	15.53	f ₁ +w/2	13	19.5	26	10112
LH101.1212.1.16	12	12	125	22.5	12	11.35	f ₁ +w/2	13	15.5	26	10116
LH101.1616.1.16	16	16	125	22.5	16	15.35	f ₁ +w/2	13	19.5	26	10116

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH101...	3.5.12T10EP	T10PL	5 Nm

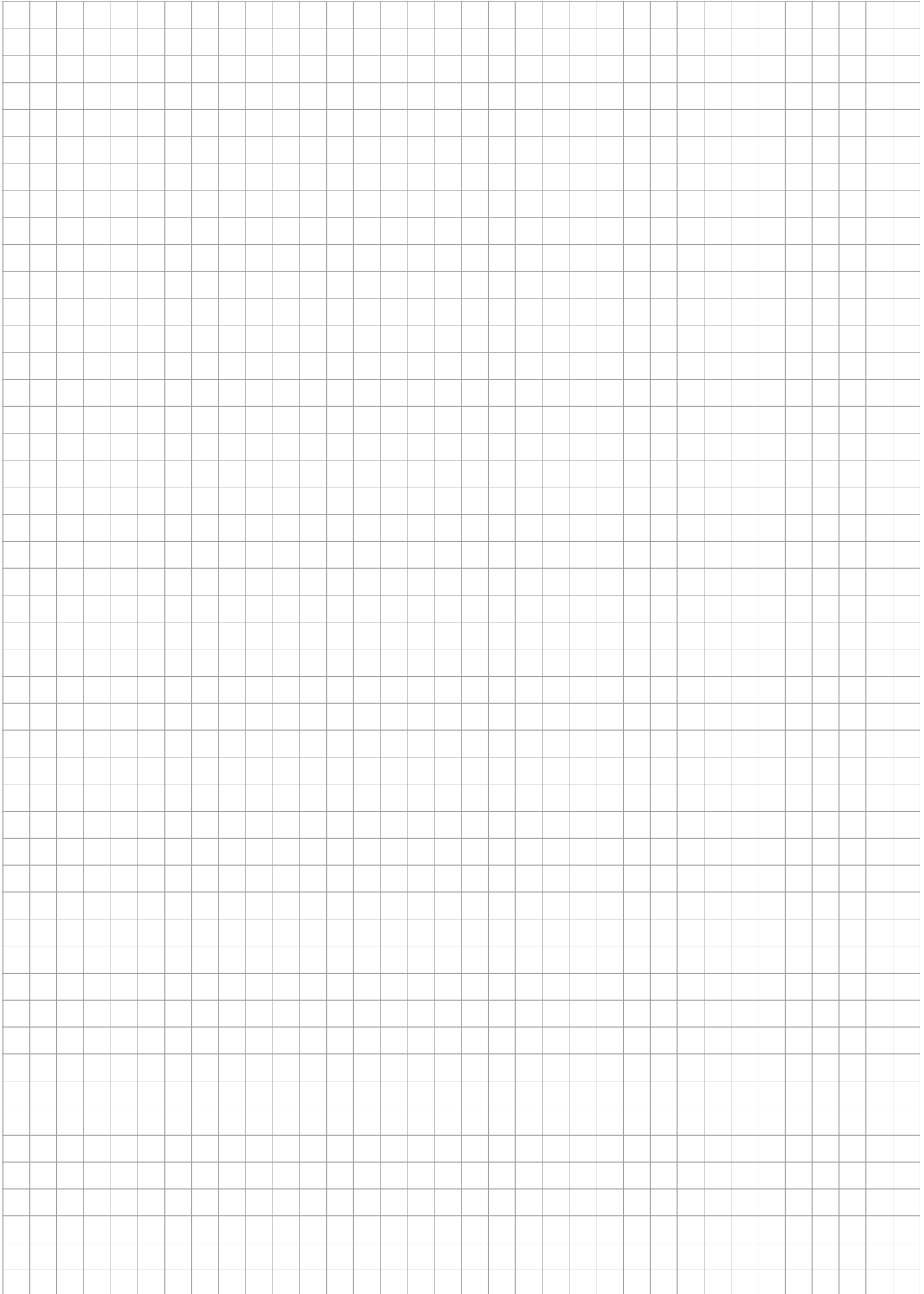


Coating grades

▲ In stock

△ 2 weeks

Part number	w	r	HIS	AS45	IG35
S101.0120.315	1.2	0.15	10112	▲	▲
S101.0160.315	1.6	0.15	10116	▲	▲
Dimensions in mm				P	●
				M	○
				K	○
				N	-
				S	-
				H	-





SYSTEM 117

EXTERNAL PROFILING

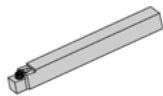
.393"-1.771", 10-45mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

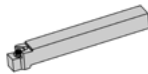
GROUP 1

.394"-1.024", 10-26mm width groove - 5°



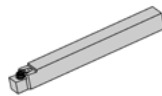
Page 88

.394-.472" groove
Inch Shank



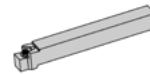
Page 89

.630-1.024" groove
Inch Shank



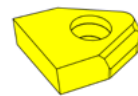
Page 90

10-12mm groove
Metric Shank



Page 91

16-26mm groove
Metric Shank

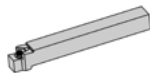


Page 92

10-26mm groove
Group 1 Holders

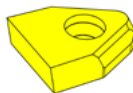
GROUP 2

10-26mm width groove - 0°



Page 93

10-26mm groove
Metric Shank

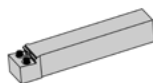


Page 94

10-26mm groove
Group 2 Holders

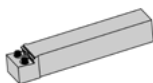
GROUP 3

1.260"-1.772", 32-45mm width groove - 5°



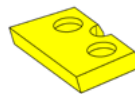
Page 95

1.260-1.772" groove
Inch Shank



Page 96

32-45mm groove
Metric Shank

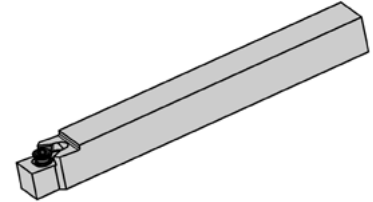
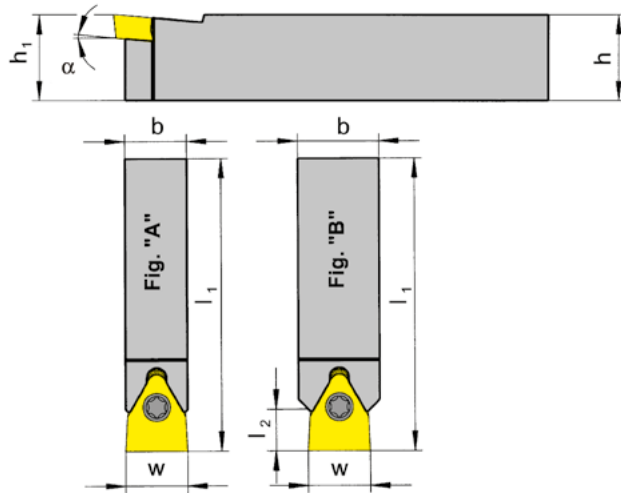
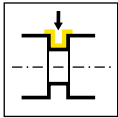


Page 97

32-45mm groove
Group 3 Holders

Cutting Data and Technical Instructions - Chapter V / Page 706

B



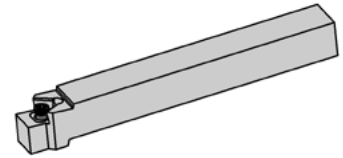
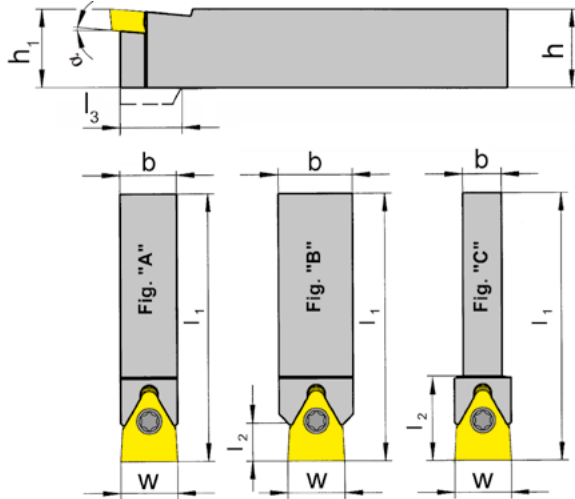
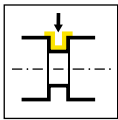
Part number	h	b	l_1	h_1	α	Figure	l_2	w	Insert	HWS
HU117.0375.10	.375	.375	3.937	.375	5°	A	-	.394	S117.0010.00	1171005
HU117.0500.10	.500	.500	4.921	.500	5°	B	.303	.394	S117.0010.00	1171005
HU117.0625.10	.625	.625	4.921	.625	5°	B	.303	.394	S117.0010.00	1171005
HU117.0500.12	.500	.500	4.921	.500	5°	A	.256	.472	S117.0012.00	1171205
HU117.0625.12	.625	.625	4.921	.625	5°	B	.256	.472	S117.0012.00	1171205
HU117.0750.12	.750	.750	5.906	.750	5°	B	.256	.472	S117.0012.00	1171205

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
HU117.0375.10	030.400P.0227	T15PQ	5 Nm
HU117....	4.09T15P	T15PQ	5 Nm



Part number	h	b	l ₁	h ₁	a	Figure	l ₂	w	Insert	HWS
HU117.0500.16	.500	.500	4.921	.500	5°	C	.335	.630	S117.0014/16.00	1171605
HU117.0625.16	.625	.625	4.921	.625	5°	A / B	.335	.630	S117.0014/16.00	1171605
HU117.0750.16	.750	.750	5.906	.750	5°	B	.335	.630	S117.0014/16.00	1171605
HU117.0625.20	.625	.625	4.921	.625	5°	C	1.181	.827	S117.0018/20.00	1172005
HU117.0750.20	.750	.750	5.906	.750	5°	A / B	.531	.827	S117.0018/20.00	1172005
HU117.1000.20	1.000	1.000	5.906	1.000	5°	B	.531	.827	S117.0018/20.00	1172005
HU117.0750.26	.750	.750	5.906	.750	5°	C	1.181	1.024	S117.0026.00	1172605
HU117.1000.26	1.000	1.000	5.906	1.000	5°	A	.492	1.024	S117.0026.00	1172605

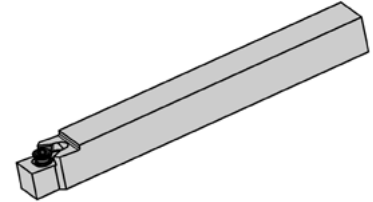
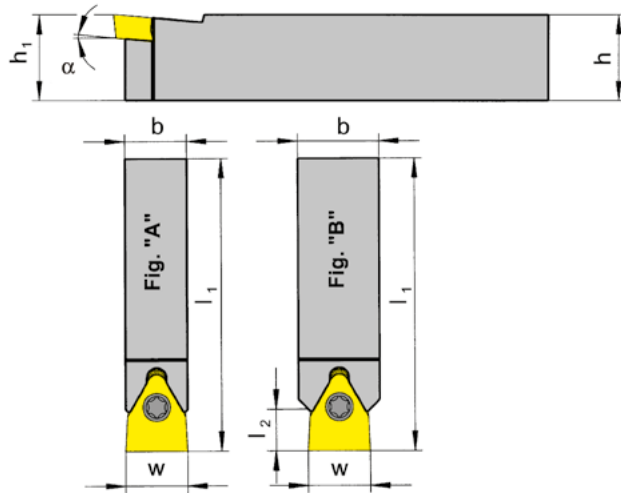
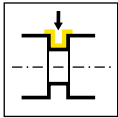
Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
HU117....16	5.12T20P	T20PQ	6 Nm
HU117....20, 26	6.17T20P	T20PQ	7 Nm

B

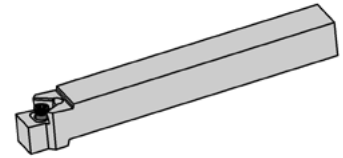
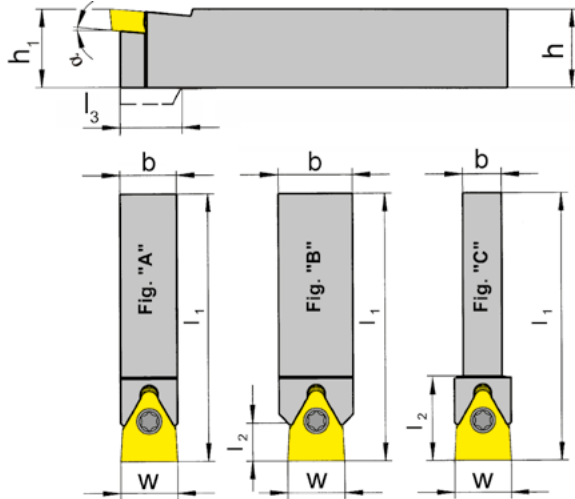
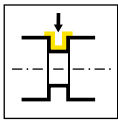


Part number	h	b	l_1	h_1	α	Figure	l_2	w	Insert	HWS
H117.1010.10	10	10	100	10	5°	A	-	10	S117.0010.00	1171005
H117.1212.10	12	12	125	12	5°	B	9	10	S117.0010.00	1171005
H117.1616.10	16	16	125	16	5°	B	9	10	S117.0010.00	1171005
H117.1212.12	12	12	125	12	5°	A	-	12	S117.0012.00	1171205
H117.1414.12	14	14	125	14	5°	B	8	12	S117.0012.00	1171205
H117.1612.12	16	12	125	16	5°	A	-	12	S117.0012.00	1171205
H117.1616.12	16	16	125	16	5°	B	8	12	S117.0012.00	1171205
H117.2020.12	20	20	150	20	5°	B	8	12	S117.0012.00	1171205

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
H117.1010.10	030.400P.0227	T15PQ	5 Nm
H117...10, 12	4.09T15P	T15PQ	5 Nm



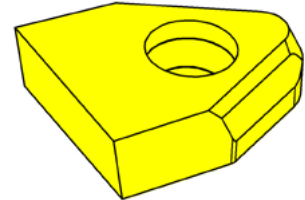
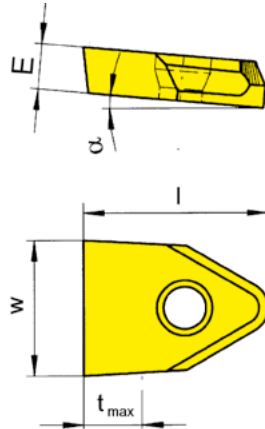
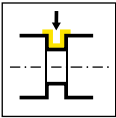
Part number	h	b	l ₁	h ₁	l ₃	α	Figure	l ₂	w	Insert	HWS
H117.1414.16	14	14	125	14	18	5°	C	22	16	S117.0014/16.00	1171605
H117.1616.16	16	16	125	16	-	5°	A / B	11	16	S117.0014/16.00	1171605
H117.2020.16	20	20	150	20	-	5°	B	11	16	S117.0014/16.00	1171605
H117.2525.16	25	25	150	25	-	5°	B	8.5	16	S117.0014/16.00	1171605
H117.1616.20	16	16	125	16	23	5°	C	30	20	S117.0018/20.00	1172005
H117.2020.20	20	20	150	20	-	5°	A / B	15	20	S117.0018/20.00	1172005
H117.2525.20	25	25	150	25	-	5°	B	15	20	S117.0018/20.00	1172005
H117.2020.26	20	20	150	20	-	5°	C	30	26	S117.0026.00	1172605
H117.2525.26	25	25	150	25	-	5°	A	-	26	S117.0026.00	1172605

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
H117...16	5.12T20P	T20PQ	6 Nm
H117...20, 26	6.17T20P	T20PQ	7 Nm

B



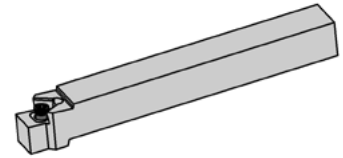
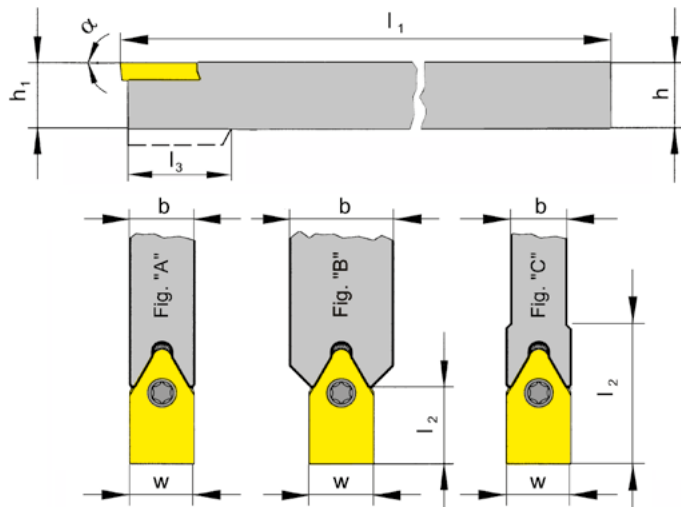
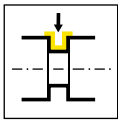
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	E	t _{max}	l	α	Toolholder	HIS	MG12	
S117.0010.00	10	3	3.5	16	5°	H117...10	1171005	▲	-
S117.0012.00	12	4.5	4.5	17	5°	H117...12	1171205	▲	-
S117.0014.00	14	6	6	21	5°	H117...16	1171605	▲	-
S117.0016.00	16	6	6	21	5°	H117...16	1171605	▲	-
S117.0018.00	18	7	9	29	5°	H117...20	1172005	▲	-
S117.0020.00	20	7	9	29	5°	H117...20	1172005	▲	-
S117.0026.00	26	7	10	32	5°	H117...26	1172605	▲	-
								P	-
								M	-
								K	-
								N	●
								S	-
								H	-

Dimensions in mm



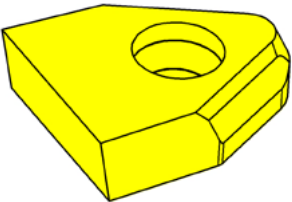
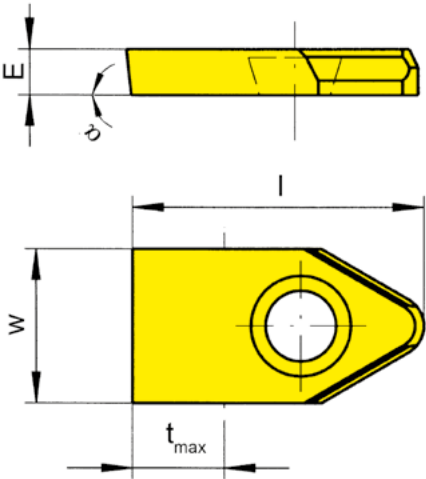
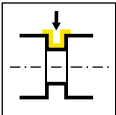
Part number	h	b	l_1	h_1	l_3	α	Figure	l_2	w	Insert	HWS
H117.1010.02.10	10	10	100	10	-	0°	A	-	10	S117.0010.02.00	1171000
H117.1212.02.10	12	12	125	12	-	0°	B	12	10	S117.0010.02.00	1171000
H117.1616.02.10	16	16	125	16	-	0°	B	12	10	S117.0010.02.00	1171000
H117.1212.02.12	12	12	125	12	-	0°	A	-	12	S117.0012.02.00	1171200
H117.1616.02.12	16	16	125	16	-	0°	B	11	12	S117.0012.02.00	1171200
H117.2020.02.12	20	20	150	20	-	0°	B	11	12	S117.0012.02.00	1171200
H117.1616.02.16	16	16	125	16	-	0°	A	-	16	S117.0016.02.00	1171600
H117.2020.02.16	20	20	150	20	-	0°	B	14	16	S117.0016.02.00	1171600
H117.1616.02.20	16	16	125	16	26	0°	C	33	20	S117.0020.02.00	1172000
H117.2020.02.20	20	20	150	20	-	0°	A	-	20	S117.0020.02.00	1172000
H117.2525.02.20	25	25	150	25	-	0°	B	19	20	S117.0020.02.00	1172000
H117.2020.02.26	20	20	150	20	-	0°	C	33	26	S117.0026.02.00	117MD07
H117.2525.02.26	25	25	150	25	-	0°	A	-	26	S117.0026.02.00	117MD07

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
H117...10/12	4.09T15P	T15PQ	5 Nm
H117...16	5.12T20P	T20PQ	6 Nm
H117...20/26	6.17T20P	T20PQ	7 Nm

B

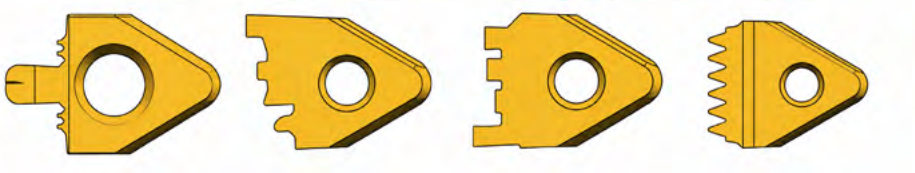


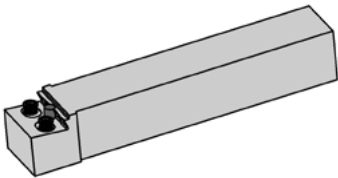
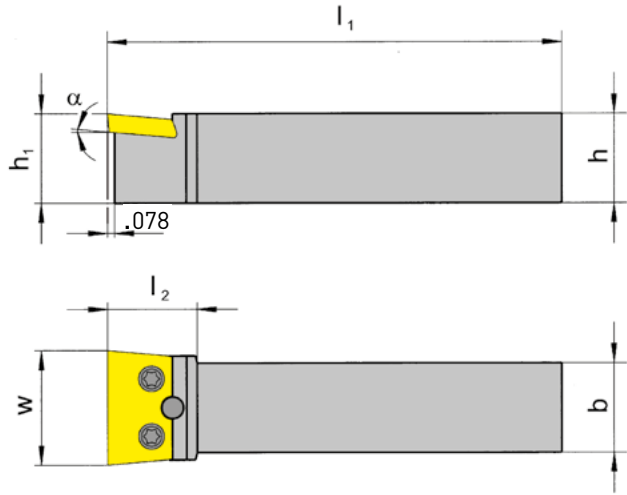
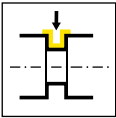
Coating grades

▲ In stock Δ 2 weeks

Part number	w	E	t _{max}	l	α	Toolholder	HIS	MG12	
S117.0010.02.00	10	3	6.5	19	0°	H117...02.10	1171000	▲	P -
S117.0012.02.00	12	4.5	7.5	20	0°	H117...02.12	1171200	▲	M -
S117.0016.02.00	16	6	9	24	0°	H117...02.16	1171600	▲	K -
S117.0020.02.00	20	7	12	32	0°	H117...02.20	1172000	▲	N ●
S117.0026.02.00	26	7	13	35	0°	H117...02.26	117MD07	▲	S -
Dimensions in mm								H	-

Custom profiles are available upon request





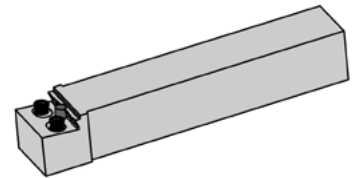
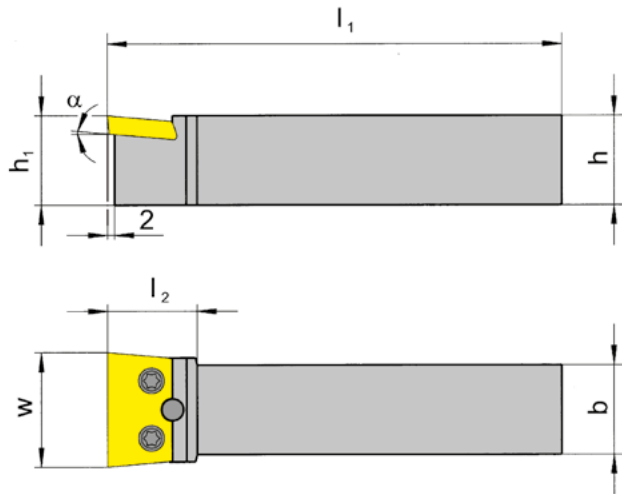
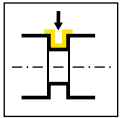
Part number	h	b	l ₁	h ₁	α	l ₂	w	Insert	HWS
HU117.0750.32	.750	.750	5.906	.750	5°	.984	1.260	S117.0032.00	1173205
HU117.1000.32	1.000	1.000	5.906	1.000	5°	.984	1.260	S117.0032.00	1173205
HU117.1000.45	1.000	1.000	5.906	1.000	5°	1.063	1.772	S117.0045.00	1174505
HU117.1250.45	1.250	1.250	6.693	1.250	5°	1.063	1.772	S117.0045.00	1174505

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
HU117...32, 45	5.12T20P	T20PQ	6 Nm

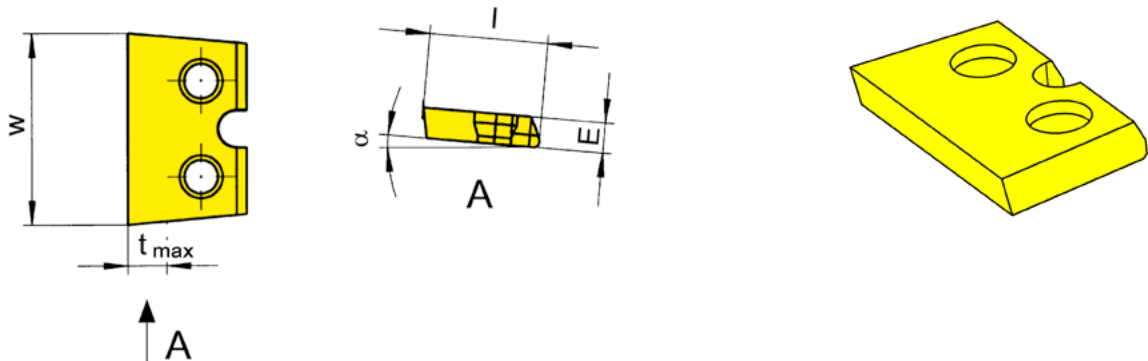
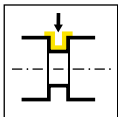


Part number	h	b	l_1	h_1	α	l_2	w	Insert	HWS
H117.2020.32	20	20	150	20	5°	25	32	S117.0032.00	1173205
H117.2525.32	25	25	150	25	5°	25	32	S117.0032.00	1173205
H117.2525.45	25	25	150	25	5°	27	45	S117.0045.00	1174505
H117.3232.45	32	32	170	32	5°	27	45	S117.0045.00	1174505

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
H117...32, 45	5.12T20P	T20PQ	6 Nm



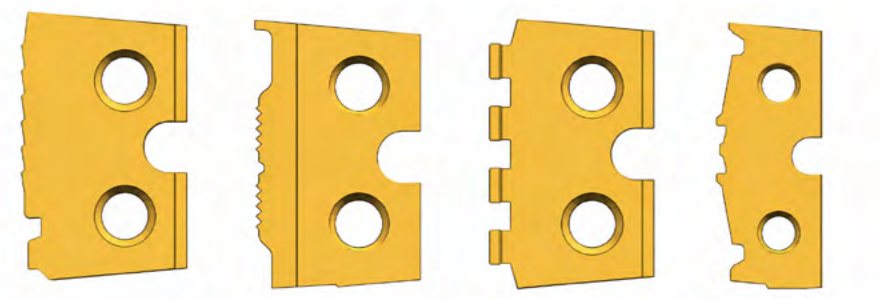
Coating grades

▲ In stock Δ 2 weeks

Part number	w	E	t _{max}	l	α	Toolholder	HIS	MG12	
S117.0032.00	32	5	6.5	19.7	5°	H117...32	1173205	▲	
S117.0045.00	45	5	6.5	19.7	5°	H117...45	1174505	▲	
									P -
									M -
									K -
									N ●
									S -
									H -

Dimensions in mm

Custom profiles are available upon request





Scan or click

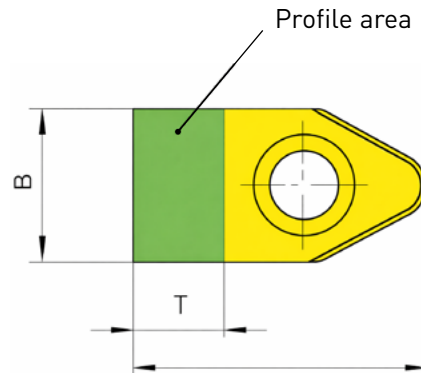
SPECIAL TOOLS DISPATCHED IN 5 DAYS OR LESS AFTER DESIGN APPROVAL

New standard process for low-volume specials.

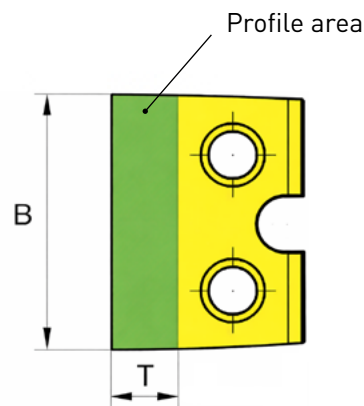
No additional cost to the customer.

Automatically applied to eligible orders.

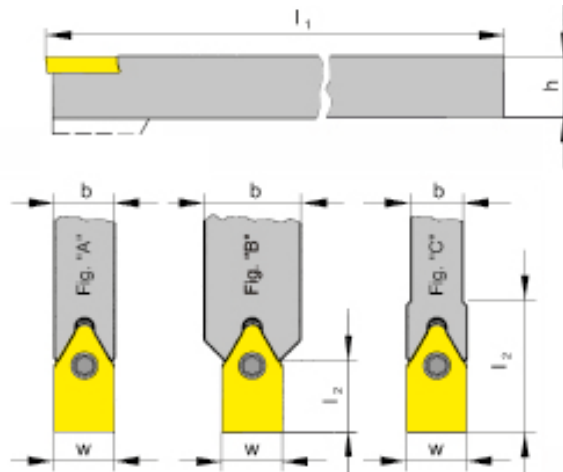
Scan QR Code for more details.



Cutting width B		Cutting depth T		Type of insert
in	mm	in	mm	
≤ .382	≤ 9.7	.138	3.5	S117.0010.00
≤ .382	≤ 9.7	.256	6.5	S117.0010.02.00
≤ .441	≤ 11.2	.177	4.5	S117.0012.00
≤ .441	≤ 11.2	.295	7.5	S117.0012.02.00
≤ .539	≤ 13.7	.236	6	S117.0014.00
≤ .594	≤ 15.1	.236	6	S117.0016.00
≤ .594	≤ 15.1	.354	9	S117.0016.02.00
≤ .701	≤ 17.8	.354	9	S117.0018.00
≤ .780	≤ 19.8	.354	9	S117.0020.00
≤ .780	≤ 19.8	.472	12	S117.0020.02.00
≤ .972	≤ 24.7	.394	10	S117.0026.00
≤ .972	≤ 24.7	.512	13	S117.0026.02.00

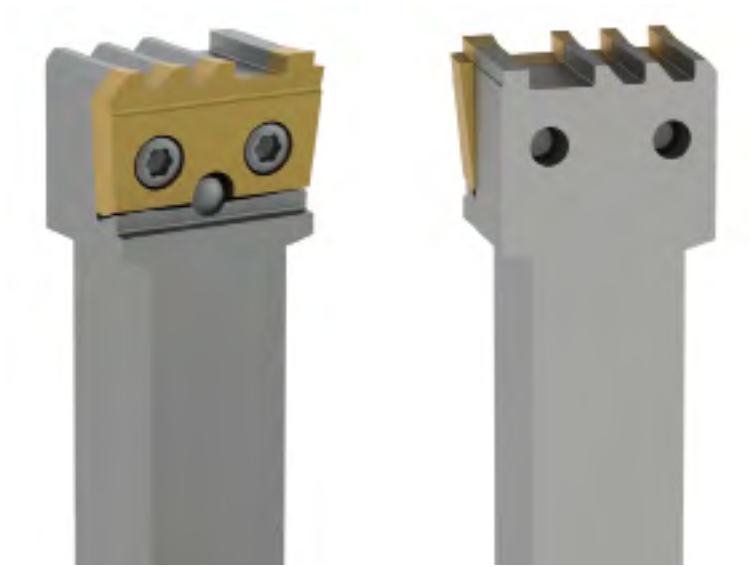


Cutting width B		Cutting depth T		Type of insert
in	mm	in	mm	
≤ 1.189	≤ 30.2	.256	6.5	S117.0032.00
≤ 1.705	≤ 43.3	.256	6.5	S117.0045.00



Type of insert	h		b		l ₁		Figure	l ₂		Special toolholder similar to
	in	mm	in	mm	in	mm		in	mm	
S117.0010.00	.394	10	.394	10	3.937	100	A	-	-	H117.1010.10
	.472	12	.472	12	4.921	125	B	.354	9	H117.1212.10
	.630	16	.630	16	4.921	125	B	.354	9	H117.1616.10
S117.0010.02.00	.394	10	.394	10	3.937	100	A	-	-	H117.1010.02.10
	.472	12	.472	12	4.921	125	B	.472	12	H117.1212.02.10
	.630	16	.630	16	4.921	125	B	.472	12	H117.1616.02.10
S117.0012.00	.472	12	.472	12	4.921	125	A	-	-	H117.1212.12
	.551	14	.551	14	4.921	125	B	.315	8	H117.1414.12
	.630	16	.630	12	4.921	125	A	-	-	H117.1612.12
	.630	16	.630	16	4.921	125	B	.315	8	H117.1616.12
	.787	20	.787	20	5.903	150	B	.315	8	H117.2020.12
S117.0012.02.00	.472	12	.472	12	4.921	125	A	-	-	H117.1212.02.12
	.630	16	.630	16	4.921	125	B	.433	11	H117.1616.02.12
	.787	20	.787	20	5.903	150	B	.433	11	H117.2020.02.12
S117.0014.00 S117.0016.00	.551	14	.551	14	4.921	125	C	.866	22	H117.1414.16
	.630	16	.630	16	4.921	125	A / B	.433	11	H117.1616.16
	.787	20	.787	20	5.903	150	B	.433	11	H117.2020.16
	.984	25	.984	25	5.903	150	B	.335	8.5	H117.2525.16
S117.0016.02.00	.630	16	.630	16	4.921	125	A	-	-	H117.1616.02.16
	.787	20	.787	20	5.903	150	B	.551	14	H117.2020.02.16
S117.0018.00 S117.0020.00	.630	16	.630	16	4.921	125	C	1.181	30	H117.1616.20
	.787	20	.787	20	5.903	150	A / B	.591	15	H117.2020.20
	.984	25	.984	25	5.903	150	B	.591	15	H117.2525.20
S117.0020.02.00	.630	16	.630	16	4.921	125	C	1.299	33	H117.1616.02.20
	.787	20	.787	20	5.903	150	A	-	-	H117.2020.02.20
	.984	25	.984	25	5.903	150	B	.748	19	H117.2525.02.20
S117.0026.00	.787	20	.787	20	5.903	150	C	1.181	30	H117.2020.26
	.984	25	.984	25	5.903	150	A	-	-	H117.2525.26
S117.0026.02.00	.787	20	.787	20	5.903	150	C	1.299	33	H117.2020.02.26
	.984	25	.984	25	5.903	150	A	-	-	H117.2525.02.26
S117.0032.00	.787	20	.787	20	5.903	150	C	.984	25	H117.2020.32
	.984	25	.984	25	5.903	150	C	.984	25	H117.2525.32
S117.0045.00	.984	25	.984	25	5.903	150	C	1.063	27	H117.2525.45
	1.260	32	1.260	32	6.693	170	C	1.063	27	H117.3232.45

Custom holders provide higher stability and tool life



Please note:

- smallest possible inner radius: .0019" / 0.05 mm
- smallest possible outer radius .0015" / 0.04 mm
- smallest possible angle tolerance Form: ± 10'
- smallest possible dimensional tolerance: ± .00019" / ± 0.005 mm
- smallest possible shape tolerance: .00039" / 0.01 mm

Special inserts are available in these coatings:

Material group	P	EG35/EG55
Material group	M	IG35/IG65
Material group	K	EG36/EG56
Material group	N	MG12
Material group	S	SG35



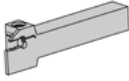
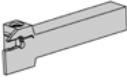
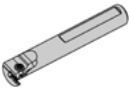
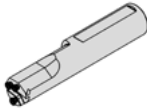
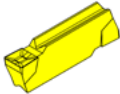
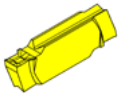
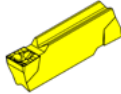
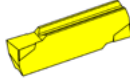
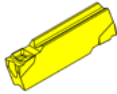
SYSTEM 223

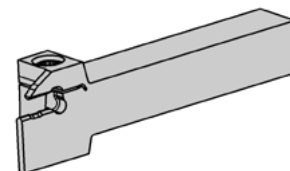
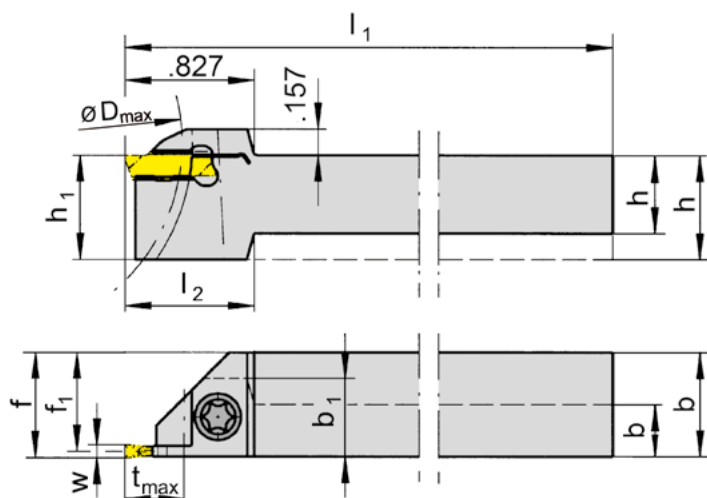
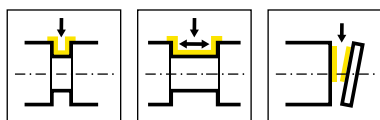
INTERNAL AND EXTERNAL GROOVING AND SIDE TURNING, EXTERNAL PARTING OFF

.078"-.118", 2-3mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Square Shank			Specialty	
					
	Page 106 HU223 Inch Shank	Page 107 H223 Metric Shank	Page 108 H223 Metric Shank	Page 109 E223 Cartridge	
	Round Shank				
					
	Page 110-112 BU223 Inch Shank	Page 113 BU223 Modular Inch Shank	Page 114-117 B223 Metric Shank	Page 118 B223 Modular Metric Shank	Page 119 BK223 Modular Cassette
	Grooving, Side Turning			Finishing	
					
	Page 120 .3 Chipbreaker Groove, Turn, Part Off	Page 121 S223 DIN Circlip	Page 122 .5 Chipbreaker Grooving, Side Turning	Page 123-124 .C Chipbreaker Parting Off	Page 125 .NC Chipbreaker Finishing
Cutting Data and Technical Instructions - Chapter V / Page 706					



R = right hand version shown

L = left hand version

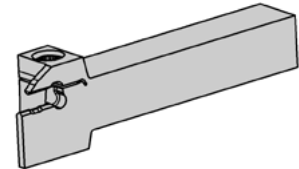
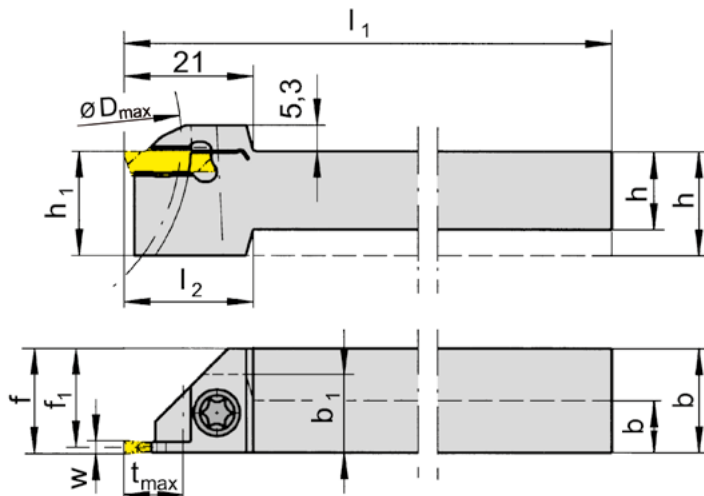
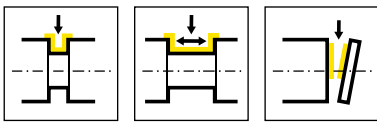
Part number	h	b	l_1	l_2	h_1	b_1	f_1	f	t_{max}	D_{max}	HWS
RHU223.0375.01	.375	.375	3.150	.787	.472	.453	.344	$f_1+w/2$	.315	.984	22301
RHU223.0500.01	.500	.500	3.996	.827	.500	-	.469	$f_1+w/2$	.394	1.969	22301
RHU223.0625.01	.625	.625	5.118	.827	.625	-	.594	$f_1+w/2$	.394	1.969	22301
RHU223.0750.01	.750	.750	5.118	.827	.750	-	.719	$f_1+w/2$	.394	1.969	22301
RHU223.1000.01	1.000	1.000	6.004	-	1.000	-	.969	$f_1+w/2$	.394	1.969	22301
RHU223.0375.02	.375	.375	3.150	.787	.472	.453	.338	$f_1+w/2$	.315	.984	22302
RHU223.0500.02	.500	.500	3.996	-	.500	-	.463	$f_1+w/2$	.394	1.969	22302
RHU223.0625.02	.625	.625	5.118	-	.625	-	.588	$f_1+w/2$	.394	1.969	22302
RHU223.0750.02	.750	.750	5.118	.827	.750	-	.713	$f_1+w/2$	.394	1.969	22302
RHU223.1000.02	1.000	1.000	6.004	.827	1.000	-	.963	$f_1+w/2$	.394	1.969	22302
RHU223.0500.03	.500	.500	3.996	.827	.500	-	.453	$f_1+w/2$	.394	1.969	22303
RHU223.0625.03	.625	.625	5.118	.827	.625	-	.578	$f_1+w/2$	.394	1.969	22303
RHU223.0750.03	.750	.750	5.118	.827	.750	-	.703	$f_1+w/2$	.394	1.969	22303
RHU223.1000.03	1.000	1.000	6.004	.827	1.000	-	.953	$f_1+w/2$	.394	1.969	22303
LHU223.0375.01	.375	.375	3.150	.787	.472	.453	.344	$f_1+w/2$	.315	.984	22301
LHU223.0500.01	.500	.500	3.996	.827	.500	-	.469	$f_1+w/2$	.394	1.969	22301
LHU223.0625.01	.625	.625	5.118	.827	.625	-	.594	$f_1+w/2$	.394	1.969	22301
LHU223.0750.01	.750	.750	5.118	.827	.750	-	.719	$f_1+w/2$	.394	1.969	22301
LHU223.1000.01	1.000	1.000	6.004	.827	1.000	-	.969	$f_1+w/2$	.394	1.969	22301
LHU223.0375.02	.375	.375	3.150	.787	.472	.453	.338	$f_1+w/2$	.315	.984	22302
LHU223.0500.02	.500	.500	3.996	-	.500	-	.463	$f_1+w/2$	.394	1.969	22302
LHU223.0625.02	.625	.625	5.118	-	.625	-	.588	$f_1+w/2$	.394	1.969	22302
LHU223.0750.02	.750	.750	5.118	.827	.750	-	.713	$f_1+w/2$	.394	1.969	22302
LHU223.1000.02	1.000	1.000	6.004	.827	1.000	-	.963	$f_1+w/2$	.394	1.969	22302
LHU223.0500.03	.500	.500	3.996	.827	.500	-	.453	$f_1+w/2$	.394	1.969	22303
LHU223.0625.03	.625	.625	5.118	.827	.625	-	.578	$f_1+w/2$	.394	1.969	22303
LHU223.0750.03	.750	.750	5.118	.827	.750	-	.703	$f_1+w/2$	.394	1.969	22303
LHU223.1000.03	1.000	1.000	6.004	-	1.000	-	.953	$f_1+w/2$	.394	1.969	22303

For the (w) dimension, see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

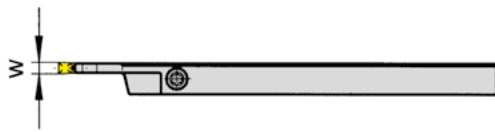
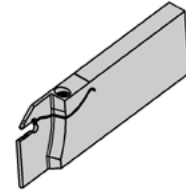
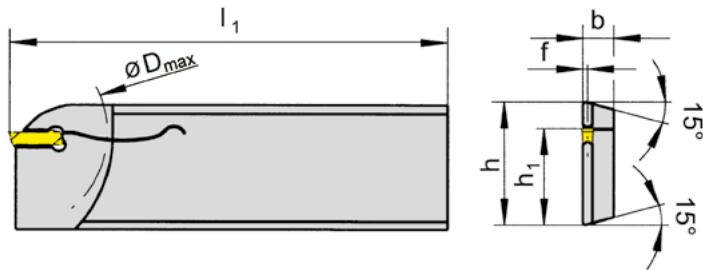
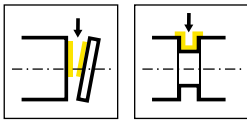
Part number	h	b	l ₁	l ₂	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	HWS
RH223.1010.01	10	10	80	20	12	12	9.2	f ₁ +w/2	8	25	12301 • 22301
RH223.1010.03	10	10	80	20	12	12	8.8	f ₁ +w/2	8	25	12303 • 22303
RH223.1212.01	12	12	100	21	16	-	11.2	f ₁ +w/2	10	50	12301 • 22301
RH223.1212.02	12	12	100	21	16	-	11.05	f ₁ +w/2	10	50	22302
RH223.1212.03	12	12	100	21	16	-	10.8	f ₁ +w/2	10	50	12303 • 22303
RH223.1616.01	16	16	125	-	16	-	15.2	f ₁ +w/2	10	50	12301 • 22301
RH223.1616.02	16	16	125	-	16	-	15.05	f ₁ +w/2	10	50	22302
RH223.1616.03	16	16	125	-	16	-	14.8	f ₁ +w/2	10	50	12303 • 22303
RH223.2020.01	20	20	125	-	20	-	19.2	f ₁ +w/2	10	50	12301 • 22301
RH223.2020.02	20	20	125	-	20	-	19.05	f ₁ +w/2	10	50	22302
RH223.2020.03	20	20	125	-	20	-	18.8	f ₁ +w/2	10	50	12303 • 22303
RH223.2525.01	25	25	150	-	25	-	24.2	f ₁ +w/2	10	50	12301 • 22301
RH223.2525.02	25	25	150	-	25	-	24.05	f ₁ +w/2	10	50	22302
RH223.2525.03	25	25	150	-	25	-	23.8	f ₁ +w/2	10	50	12303 • 22303
LH223.1010.01	10	10	80	20	12	12	9.2	f ₁ +w/2	8	25	12301 • 22301
LH223.1010.02	10	10	80	20	12	12	9.05	f ₁ +w/2	8	25	22302
LH223.1010.03	10	10	80	20	12	12	8.8	f ₁ +w/2	8	25	12303 • 22303
LH223.1212.01	12	12	100	21	16	-	11.2	f ₁ +w/2	10	50	12301 • 22301
LH223.1212.02	12	12	100	21	16	-	11.05	f ₁ +w/2	10	50	22302
LH223.1212.03	12	12	100	21	16	-	10.8	f ₁ +w/2	10	50	12303 • 22303
LH223.1616.01	16	16	125	-	16	-	15.2	f ₁ +w/2	10	50	12301 • 22301
LH223.1616.02	16	16	125	-	16	-	15.05	f ₁ +w/2	10	50	22302
LH223.1616.03	16	16	125	-	16	-	14.8	f ₁ +w/2	10	50	12303 • 22303
LH223.2020.01	20	20	125	-	20	-	19.2	f ₁ +w/2	10	50	12301 • 22301
LH223.2020.02	20	20	125	-	20	-	19.05	f ₁ +w/2	10	50	22302
LH223.2020.03	20	20	125	-	20	-	18.8	f ₁ +w/2	10	50	12303 • 22303
LH223.2525.01	25	25	150	-	25	-	24.2	f ₁ +w/2	10	50	12301 • 22301
LH223.2525.02	25	25	150	-	25	-	24.05	f ₁ +w/2	10	50	22302
LH223.2525.03	25	25	150	-	25	-	23.8	f ₁ +w/2	10	50	12303 • 22303

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

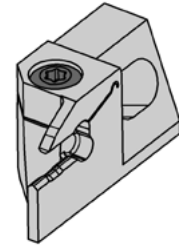
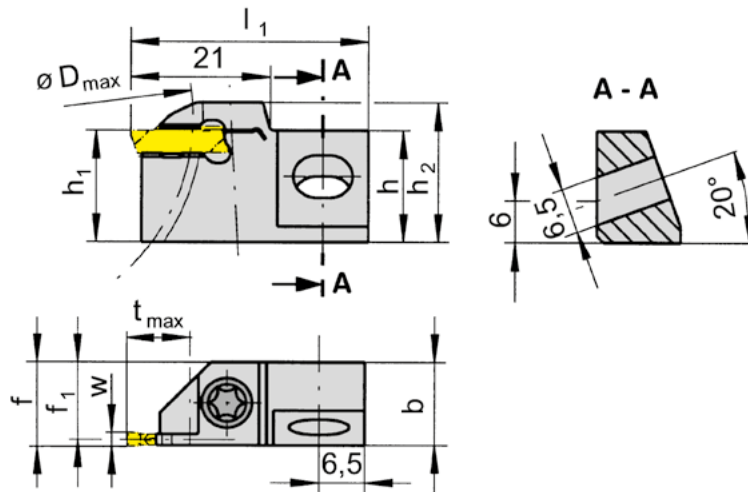
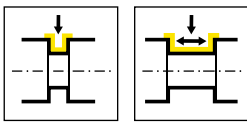
L = left hand version

Part number	h	b	l_1	h_1	f	D_{max}	HWS
RH223.2608.01	26	7.9	110	21.4	0.8	50	12301 • 22301
RH223.3208.01	32	7.9	110	24.8	0.8	50	12301 • 22301
RH223.2608.02	26	7.9	110	21.4	0.95	50	22302
RH223.3208.02	32	7.9	110	24.8	0.95	50	22302
RH223.2608.03	26	7.9	110	21.4	1.2	50	12303 • 22303
LH223.2608.01	26	7.9	110	21.4	0.8	50	12301 • 22301
LH223.2608.02	26	7.9	110	21.4	0.95	50	22302
LH223.3208.02	32	7.9	110	24.8	0.95	50	22302
LH223.2608.03	26	7.9	110	21.4	1.2	50	12303 • 22303
LH223.3208.03	32	7.9	110	24.8	1.2	50	12303 • 22303

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH223...	4.15T15P	T15PL	5 Nm



C

R = right hand version shown

L = left hand version

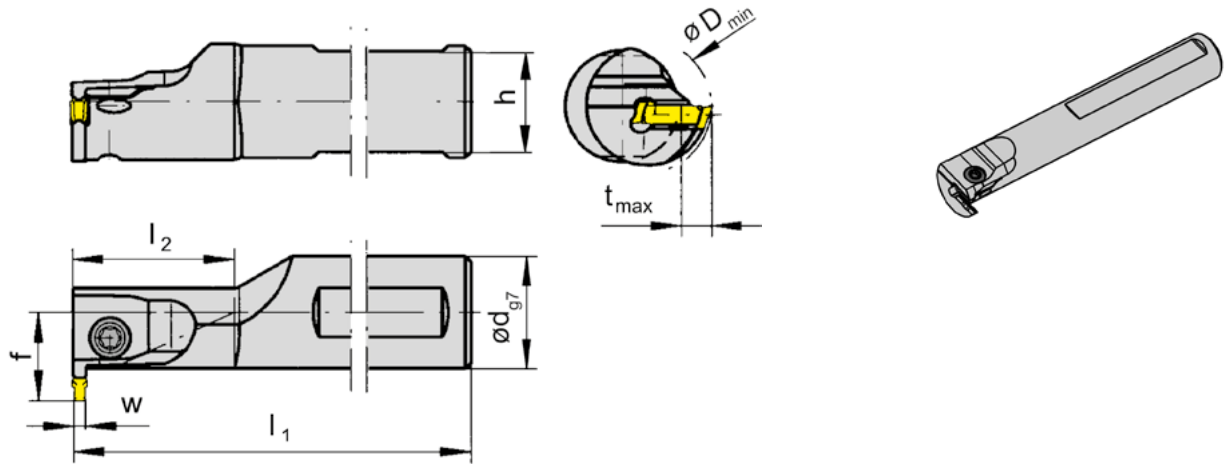
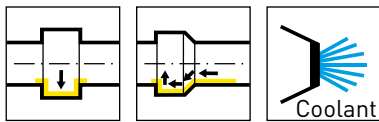
Part number	h	b	l_1	h_1	f_1	f	t_{max}	D_{max}	h_2
RE223.1212.01	16	12	34	12	11.2	$f_1 + w/2$	10	50	17.3
RE223.1212.02	16	12	34	12	11.05	$f_1 + w/2$	10	50	17.3
RE223.1212.03	16	12	34	12	10.8	$f_1 + w/2$	10	50	17.3
RE223.1616.01	16	12	34	16	11.2	$f_1 + w/2$	10	50	21.3
RE223.1616.02	16	12	34	16	11.05	$f_1 + w/2$	10	50	21.3
RE223.1616.03	16	12	34	16	10.8	$f_1 + w/2$	10	50	21.3
LE223.1212.01	16	12	34	12	11.2	$f_1 + w/2$	10	50	17.3
LE223.1212.02	16	12	34	12	11.05	$f_1 + w/2$	10	50	17.3
LE223.1212.03	16	12	34	12	10.8	$f_1 + w/2$	10	50	17.3
LE223.1616.01	16	12	34	16	11.2	$f_1 + w/2$	10	50	21.3
LE223.1616.02	16	12	34	16	11.05	$f_1 + w/2$	10	50	21.3
LE223.1616.03	16	12	34	16	10.8	$f_1 + w/2$	10	50	21.3

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Cartridge	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LE223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

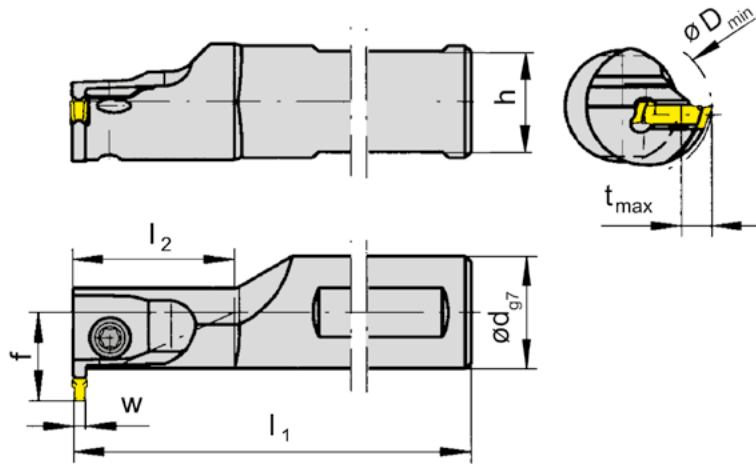
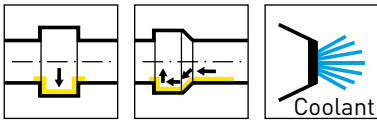
Part number	d	l_1	l_2	h	f	t_{max}	D_{min}	HWS
RB U223.0625.1.42	.625	4.331	.984	.546	.512	.177	.709	22302
RB U223.0625.1.43	.625	4.331	.984	.546	.512	.177	.709	22303
RB U223.0750.1.52	.750	4.724	1.181	.671	.618	.209	.787	22302
RB U223.0750.1.53	.750	4.724	1.181	.671	.618	.209	.787	22303
RB U223.1000.1.62	1.000	6.004	1.969	.921	.740	.248	.984	22302
RB U223.1000.1.63	1.000	6.004	1.969	.921	.740	.248	.984	22303
LB U223.0625.1.42	.625	4.331	.984	.546	.512	.177	.709	22302
LB U223.0625.1.43	.625	4.331	.984	.546	.512	.177	.709	22303
LB U223.0750.1.52	.750	4.724	1.181	.671	.618	.209	.787	22302
LB U223.0750.1.53	.750	4.724	1.181	.671	.618	.209	.787	22303
LB U223.1000.1.62	1.000	6.004	1.969	.921	.740	.248	.984	22302
LB U223.1000.1.63	1.000	6.004	1.969	.921	.740	.248	.984	22303

For the (w) dimension, see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

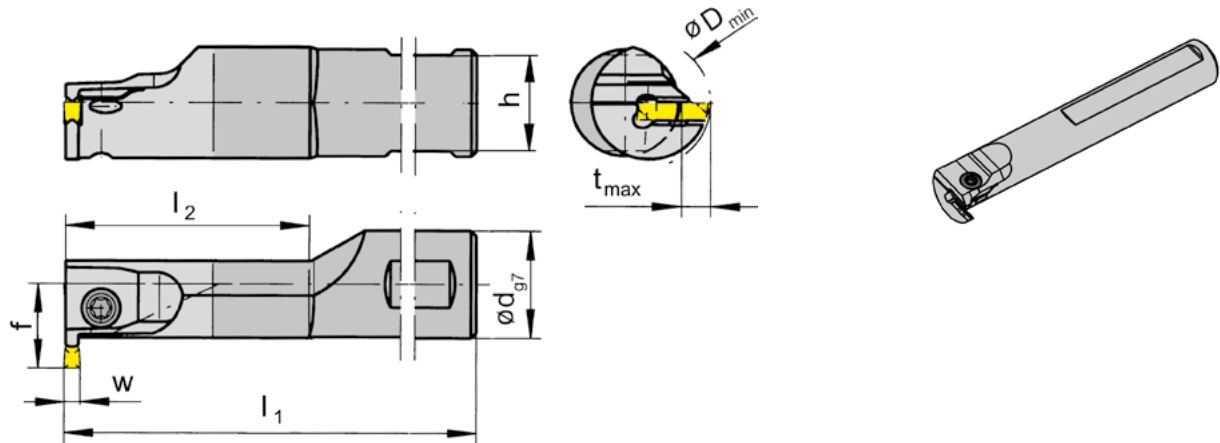
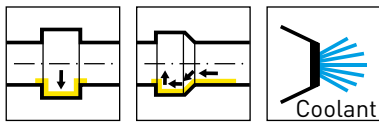
Part number	d	l_1	l_2	h	f	t_{max}	D_{min}	HWS
RB U223.0625.1.22	.625	4.331	.984	.546	.512	.065	.709	22302
RB U223.0750.1.22	.750	4.724	1.181	.671	.618	.065	.787	22302
LB U223.0625.1.22	.625	4.331	.984	.546	.512	.065	.709	22302
LB U223.0750.1.22	.750	4.724	1.181	.671	.618	.065	.787	22302

For the (w) dimension, see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU223...	5.11T15P	T15PQ	3 Nm



R = right hand version shown

L = left hand version

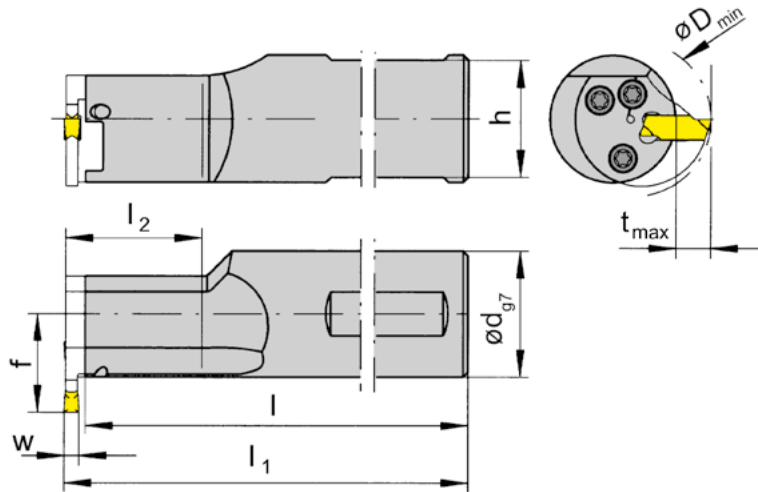
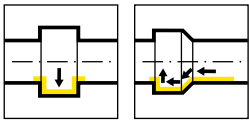
Part number	d	l_1	l_2	h	f	t_{max}	D_{min}	HWS
RBU223.HM06.2.42	.625	5.118	2.000	.546	.512	.177	.709	22302
RBU223.HM06.2.43	.625	5.118	2.000	.546	.512	.177	.709	22303
RBU223.HM07.2.52	.750	5.906	2.500	.671	.618	.209	.787	22302
RBU223.HM07.2.53	.750	5.906	2.500	.671	.618	.209	.787	22303
RBU223.HM10.2.62	1.000	6.299	2.776	.921	.740	.248	.984	22302
RBU223.HM10.2.63	1.000	6.299	2.756	.921	.740	.248	.984	22303
LBU223.HM06.2.42	.625	5.118	2.000	.546	.512	.177	.709	22302
LBU223.HM06.2.43	.625	5.118	2.000	.546	.512	.177	.709	22303
LBU223.HM07.2.52	.750	5.906	2.500	.671	.618	.209	.787	22302
LBU223.HM07.2.53	.750	5.906	2.500	.671	.618	.209	.787	22303
LBU223.HM10.2.62	1.000	6.299	2.776	.921	.740	.248	.984	22302
LBU223.HM10.2.63	1.000	6.299	2.756	.921	.740	.248	.984	22303

For the (w) dimension, see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

Part number	l_1	d	l	l_2	h	f	HWS
RB U223.1000.1.K2	$l+b_1+w/2$	1.000	4.571	1.181	.921	.768	BK2231
RB U223.1000.2.K2	$l+b_1+w/2$	1.000	5.831	2.362	.921	.768	BK2231
RB U223.1250.1.K2	$l+b_1+w/2$	1.250	5.831	1.181	1.171	.906	BK2231
RB U223.1250.2.K2	$l+b_1+w/2$	1.250	6.843	2.362	1.171	.906	BK2231
LB U223.1000.1.K2	$l+b_1+w/2$	1.000	4.571	1.181	.921	.768	BK2231
LB U223.1000.2.K2	$l+b_1+w/2$	1.000	5.831	2.362	.921	.768	BK2231
LB U223.1250.1.K2	$l+b_1+w/2$	1.250	5.831	1.181	1.171	.906	BK2231
LB U223.1250.2.K2	$l+b_1+w/2$	1.250	6.843	2.362	1.171	.906	BK2231

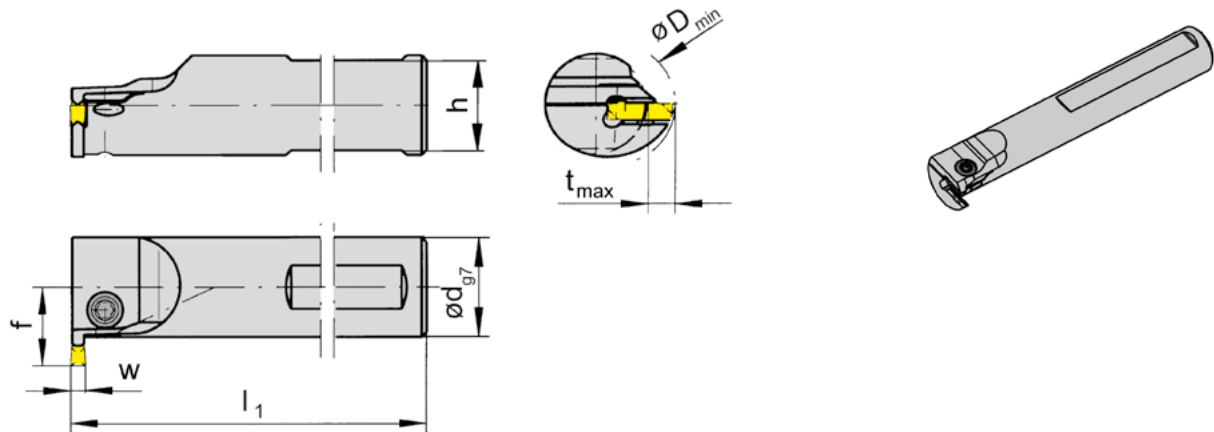
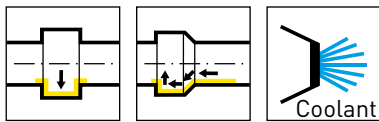
For the (w) dimension, see inserts

For dimensions (Dmin), (tmax), and (b1), see cassettes

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU223....	4.09T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

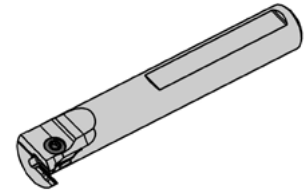
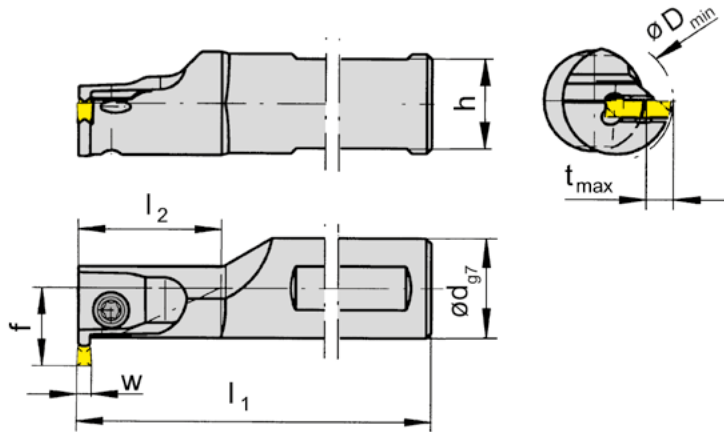
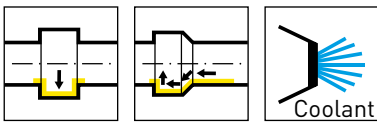
Part number	d	l ₁	h	f	t _{max}	D _{min}	HWS
RB223.0016.0.42	16	110	14	13	4.5	22	22302
RB223.0016.0.43	16	110	14	13	4.5	22	22303
RB223.0020.0.52	20	120	18	15.7	5.3	27	22302
RB223.0020.0.53	20	120	18	15.7	5.3	27	22303
RB223.0025.0.62	25	150	23	19.3	6.3	33	22302
RB223.0025.0.63	25	150	23	19.3	6.3	33	22303
LB223.0016.0.42	16	110	14	13	4.5	22	22302
LB223.0016.0.43	16	110	14	13	4.5	22	22303
LB223.0020.0.52	20	120	18	15.7	5.3	27	22302
LB223.0020.0.53	20	120	18	15.7	5.3	27	22303
LB223.0025.0.62	25	150	23	19.3	6.3	33	22302
LB223.0025.0.63	25	150	23	19.3	6.3	33	22303

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

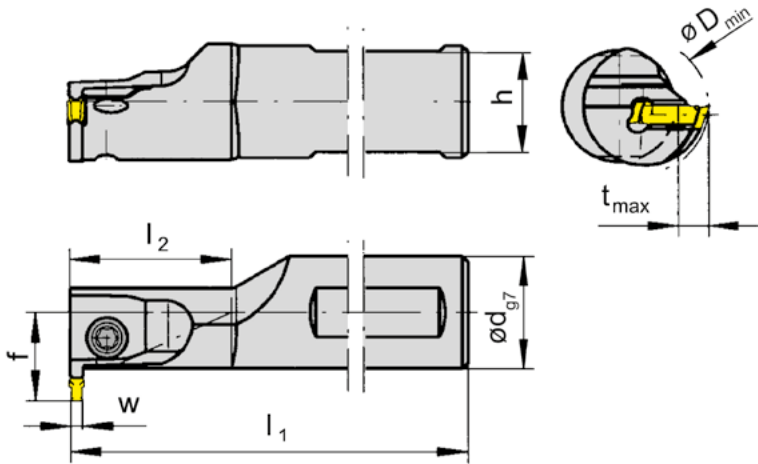
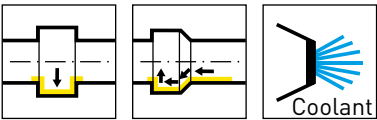
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB223.0016.1.42	16	110	25	14	13	4.5	18	22302
RB223.0016.1.43	16	110	25	14	13	4.5	18	22303
RB223.0020.1.52	20	120	30	18	15.7	5.3	20	22302
RB223.0020.1.53	20	120	30	18	15.7	5.3	20	22303
RB223.0025.1.62	25	150	50	23	18.8	6.3	25	22302
RB223.0025.1.63	25	150	50	23	18.8	6.3	25	22303
LB223.0016.1.42	16	110	25	14	13	4.5	18	22302
LB223.0016.1.43	16	110	25	14	13	4.5	18	22303
LB223.0020.1.52	20	120	30	18	15.7	5.3	20	22302
LB223.0020.1.53	20	120	30	18	15.7	5.3	20	22303
LB223.0025.1.62	25	150	50	23	18.8	6.3	25	22302
LB223.0025.1.63	25	150	50	23	18.8	6.3	25	22303

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

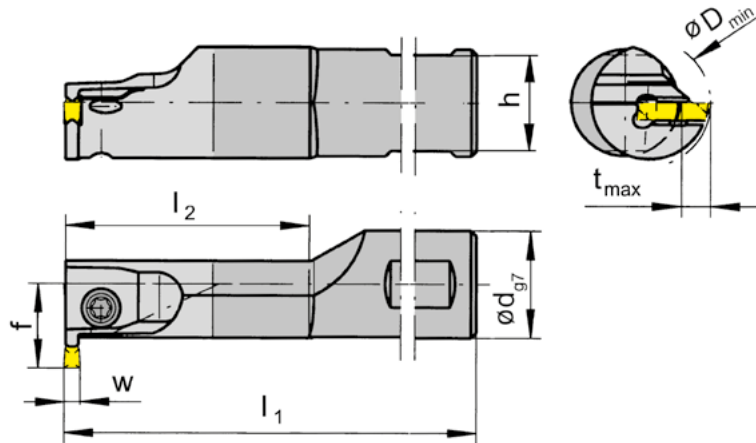
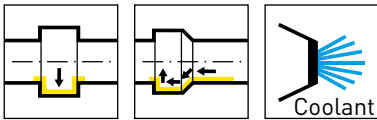
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB223.0016.1.22	16	110	25	14	13	1.65	18	22302
RB223.0020.1.22	20	120	30	18	15.7	1.65	20	22302
LB223.0016.1.22	16	110	25	14	13	1.65	18	22302
LB223.0020.1.22	20	120	30	18	15.7	1.65	20	22302

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB223.HM16.2.42	16	130	50	14	13	4.5	18	22302
RB223.HM16.2.43	16	130	50	14	13	4.5	18	22303
RB223.HM20.2.52	20	150	60	18	15.7	5.3	20	22302
RB223.HM20.2.53	20	150	60	18	15.7	5.3	20	22303
RB223.HM25.2.62	25	160	70	23	18.8	6.3	25	22302
RB223.HM25.2.63	25	160	70	23	18.8	6.3	25	22303
LB223.HM16.2.42	16	130	50	14	13	4.5	18	22302
LB223.HM16.2.43	16	130	50	14	13	4.5	18	22303
LB223.HM20.2.52	20	150	60	18	15.7	5.3	20	22302
LB223.HM20.2.53	20	150	60	18	15.7	5.3	20	22303
LB223.HM25.2.62	25	160	70	23	18.8	6.3	25	22302
LB223.HM25.2.63	25	160	70	23	18.8	6.3	25	22303

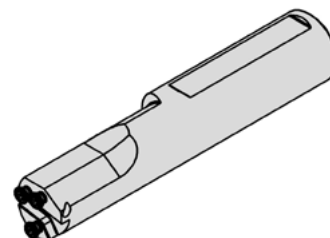
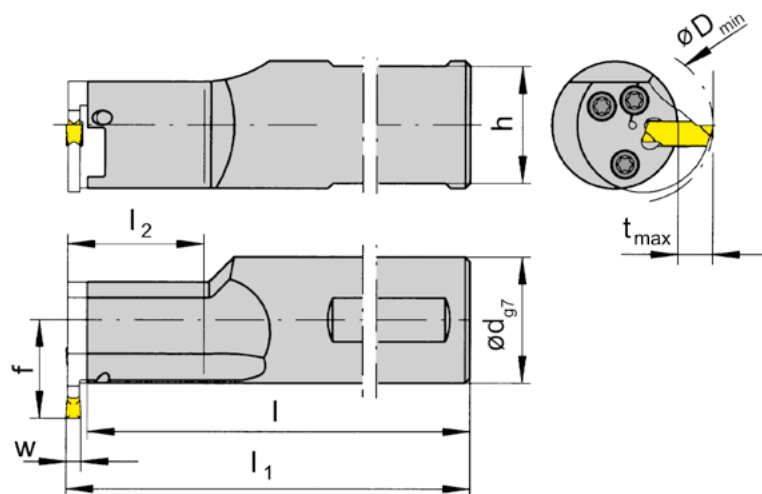
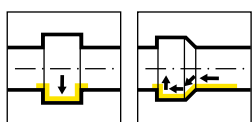
For the (w) dimension, see inserts

Carbide shank

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB223...	5.11T15P	T15PL	3 Nm



R = right hand version shown

L = left hand version

Part number	l_1	d	l	l_2	h	f	HWS
RB223.0025.1.K2	$l+b_1+w/2$	25	116.1	30	23	19.5	BK2231
RB223.0025.2.K2	$l+b_1+w/2$	25	146.1	60	23	19.5	BK2231
RB223.0032.1.K2	$l+b_1+w/2$	32	146.1	30	30	23	BK2231
RB223.0032.2.K2	$l+b_1+w/2$	32	176.1	60	30	23	BK2232
LB223.0025.1.K2	$l+b_1+w/2$	25	116.1	30	23	19.5	BK2232
LB223.0025.2.K2	$l+b_1+w/2$	25	146.1	60	23	19.5	BK2232
LB223.0032.1.K2	$l+b_1+w/2$	32	146.1	30	30	23	BK2232
LB223.0032.2.K2	$l+b_1+w/2$	32	176.1	60	30	23	BK2232

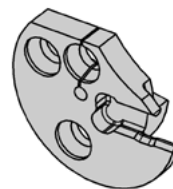
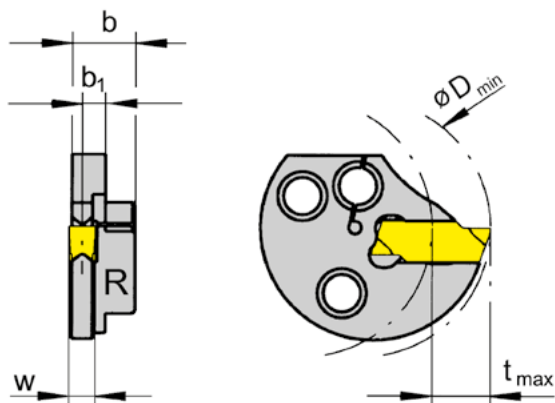
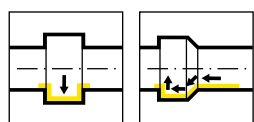
For the (w) dimension, see inserts

For dimensions (Dmin), (tmax), and (b1), see cassettes

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB223...	4.09T15P	T15PL	3 Nm



C

R = right hand version shown

L = left hand version

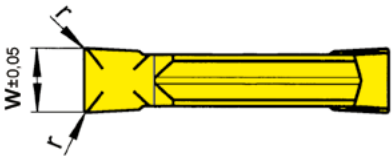
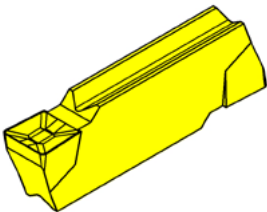
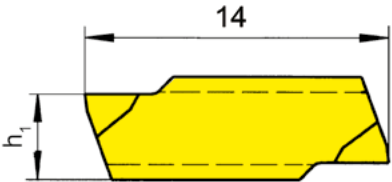
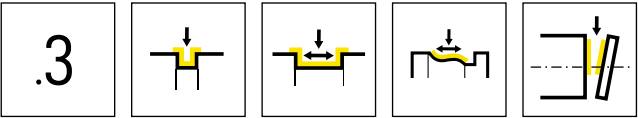
Part number	D_{min}	t_{max}	b	b_1	HWS	HMS
RBK223.0028.01	28	6.3	7.4	3.1	22301	BK2231
RBK223.0028.02	28	6.3	7.4	2.95	22302	BK2231
RBK223.0028.03	28	6.3	7.4	2.7	22303	BK2231
LBK223.0028.01	28	6.3	7.4	3.1	22301	BK2232
LBK223.0028.02	28	6.3	7.4	2.95	22302	BK2232
LBK223.0028.03	28	6.3	7.4	2.7	22303	BK2232

For the (w) dimension, see inserts

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

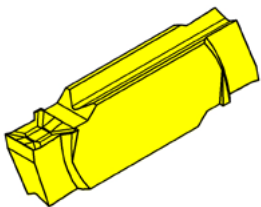
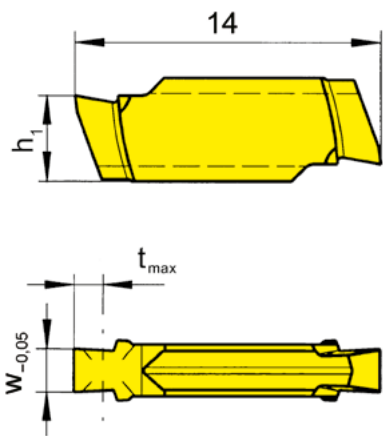
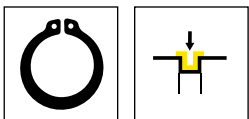
C



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	h ₁	HIS		EG55	H54	TI25	TN35
S223.0200.32	2	0.2	3.65	22301		▲	▲	▲	▲
S223.0250.32	2.5	0.2	3.75	22302		▲	▲	▲	▲
S223.0300.32	3	0.2	3.95	22303		▲	▲	▲	▲
Dimensions in mm						P	●	●	●
						M	●	-	-
						K	○	-	●
						N	-	-	○
						S	-	-	-
						H	-	-	-



Coating grades

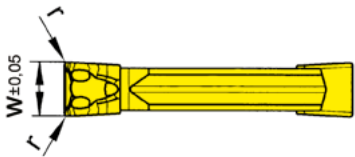
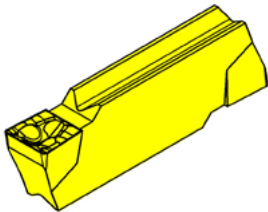
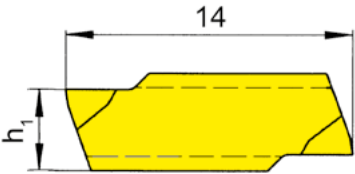
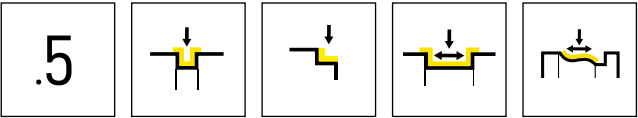
▲ In stock Δ 2 weeks

Part number	w	Nw	t _{max}	h ₁	HIS	TN35	
S223.0110.32	1.24	1.1	0.6	3.75	22302	▲	P ●
S223.0130.32	1.44	1.3	1.1	3.75	22302	▲	M -
S223.0160.32	1.74	1.6	1.15	3.75	22302	▲	K ●
S223.0185.32	1.99	1.85	1.4	3.75	22302	▲	N -
S223.0215.32	2.29	2.15	1.65	3.75	22302	▲	S -
							H -

Widths for circlip grooves DIN 471/472

Dimensions in mm

C

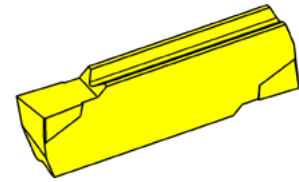
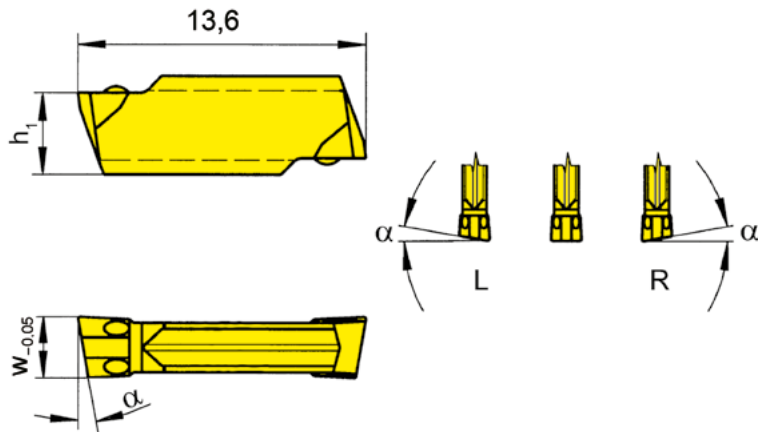
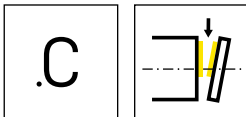


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	h ₁	HIS		EG55	TH35	Ti25
S223.0200.52	2	0.2	3.65	22301		▲	▲	
S223.0250.52	2.5	0.2	3.75	22302		▲		▲
S223.0300.52	3	0.2	3.95	22303		▲	▲	
Dimensions in mm						P	●	●
						M	●	●
						K	○	-
						N	-	○
						S	-	-
						H	-	-



C

Coating grades

R = right hand version shown

L = left hand version

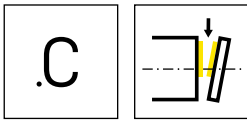
▲ In stock

△ 2 weeks

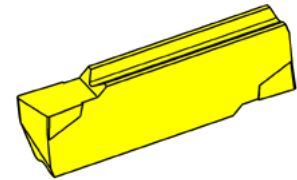
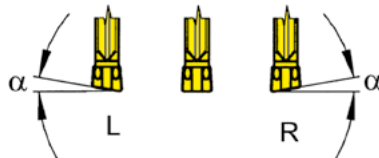
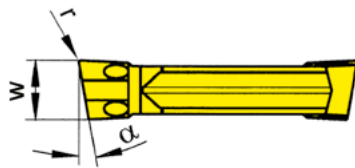
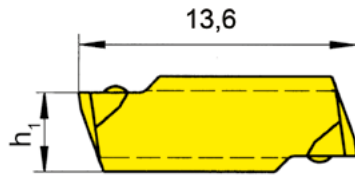
Part number	w	α	h ₁	HIS	EG55	TI25	TN35
RS223.0420.C0	2	4°	3.65	22301		▲	▲
RS223.0425.C0	2.5	4°	3.75	22302		▲	
RS223.0430.C0	3	4°	3.95	22303		△	△
RS223.0820.C0	2	8°	3.65	22301	▲	▲	▲
RS223.0825.C0	2.5	8°	3.75	22302	▲	▲	▲
RS223.0830.C0	3	8°	3.95	22303		▲	▲
RS223.1520.C0	2	15°	3.65	22301	▲	▲	▲
LS223.0420.C0	2	4°	3.65	22301			▲
LS223.0425.C0	2.5	4°	3.75	22302		△	△
LS223.0430.C0	3	4°	3.95	22303		△	△
LS223.0820.C0	2	8°	3.65	22301		▲	▲
LS223.0825.C0	2.5	8°	3.75	22302		△	
LS223.0830.C0	3	8°	3.95	22303		▲	▲
LS223.1520.C0	2	15°	3.65	22301		▲	▲
S223.0020.C0	2	0°	3.65	22301	▲	▲	▲
S223.0025.C0	2.5	0°	3.75	22302		▲	△
S223.0030.C0	3	0°	3.95	22303		▲	▲

Dimensions in mm

P	●	●	●
M	●	●	-
K	○	-	●
N	-	○	-
S	-	-	-
H	-	-	-



C



Coating grades

R = right hand version shown

L = left hand version

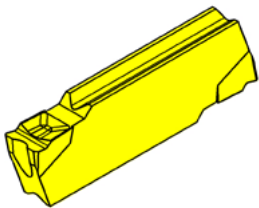
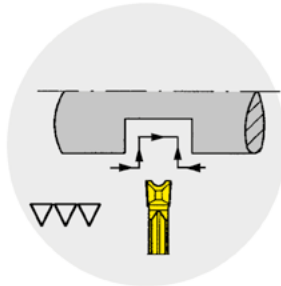
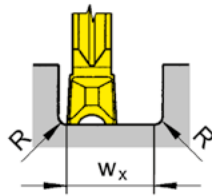
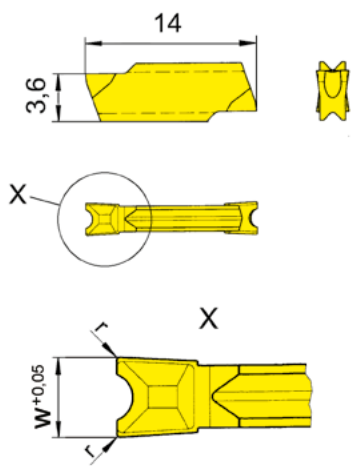
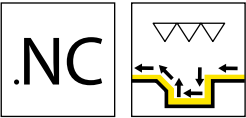
▲ In stock

Δ 2 weeks

Part number	w	r	α	h ₁	HIS		Ti25	TN35
RS223.0420.C1	2	0.15	4°	3.65	22301		Δ	▲
RS223.0425.C1	2.5	0.15	4°	3.75	22302		▲	Δ
RS223.0820.C1	2	0.15	8°	3.65	22301		▲	▲
RS223.0825.C1	2.5	0.15	8°	3.75	22302		▲	Δ
RS223.1520.C1	2	0.15	15°	3.65	22301		▲	▲
LS223.0420.C1	2	0.15	4°	3.65	22301		Δ	Δ
LS223.0425.C1	2.5	0.15	4°	3.75	22302		Δ	Δ
LS223.0820.C1	2	0.15	8°	3.65	22301		Δ	▲
LS223.0825.C1	2.5	0.15	8°	3.75	22302		Δ	Δ
LS223.1520.C1	2	0.15	15°	3.65	22301		▲	▲
S223.0020.C1	2	0.15	0°	3.65	22301		▲	▲
S223.0025.C1	2.5	0.15	0°	3.75	22302		▲	▲
S223.0030.C1	3	0.15	0°	3.95	22303		▲	▲

Dimensions in mm

P	●	●
M	●	-
K	-	●
N	o	-
S	-	-
H	-	-



Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	w _x	HIS	Tl25
S223.NC20.D2	2	0.2	2.7	22301	▲
This insert is designed for finishing					P ●
wx = width of groove - R(right) - R(left)					M ●
Dimensions in mm					K -
					N o
					S -
					H -

C

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

D



SYSTEM 209

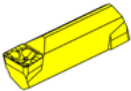
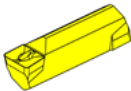
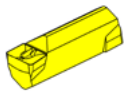
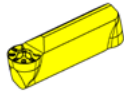
INTERNAL GROOVING AND SIDE TURNING

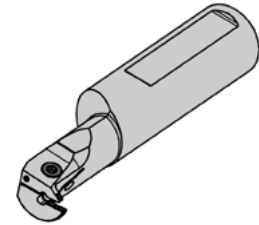
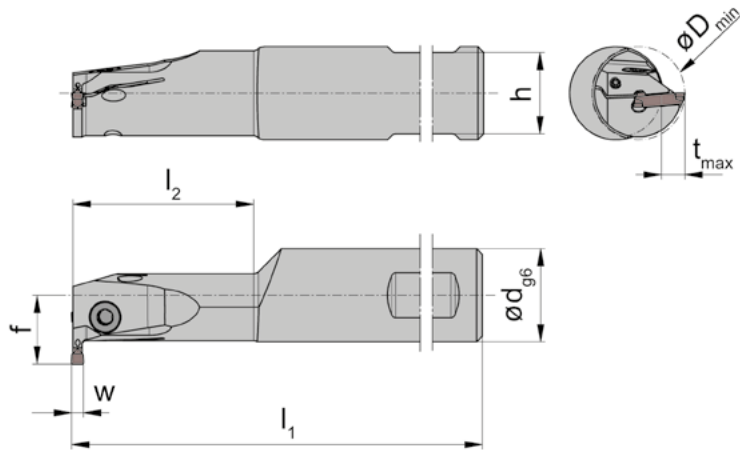
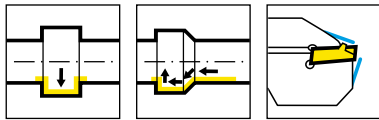
.078"-.118", 2-3mm width

D

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Round Shank			
	 Page 130 B209 Metric Shank			
INSERTS	Grooving, Side Turning		Finishing	Full Radius
				
	Page 131 .5 Chipbreaker Grooving, Side Turning	Page 132 .1A Chipbreaker Grooving	Page 133 .FB Geometry Finishing	Page 134 .KF Chipbreaker Grooving, Side Turning
	Cutting Data and Technical Instructions - Chapter V / Page 706			



R = right hand version shown

L = left hand version

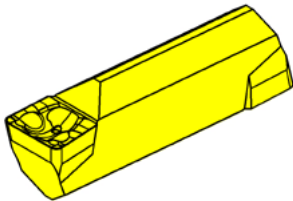
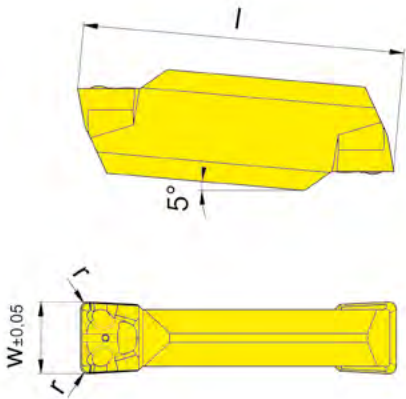
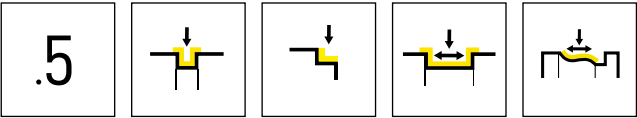
Part number	d	l_1	l_2	h	f	t_{max}	D_{min}	HWS
RB209.0016.1.02.IK	16	110	30	14	11.8	3.5	16	20920
RB209.0020.1.12.IK	20	110	30	18	15.3	5	18	20920
RB209.0016.1.025.IK	16	110	30	14	11.8	3.5	16	20925
RB209.0020.1.125.IK	20	110	30	18	15.3	5	18	20925
RB209.0016.1.03.IK	16	110	30	14	11.8	3.5	16	20930
RB209.0020.1.13.IK	20	110	30	18	15.3	5	18	20930
LB209.0016.1.02.IK	16	110	30	14	11.8	3.5	16	20920
LB209.0020.1.12.IK	20	110	30	18	15.3	5	18	20920
LB209.0016.1.025.IK	16	110	30	14	11.8	3.5	16	20925
LB209.0020.1.125.IK	20	110	30	18	15.3	5	18	20925
LB209.0016.1.03.IK	16	110	30	14	11.8	3.5	16	20930
LB209.0020.1.13.IK	20	110	30	18	15.3	5	18	20930

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB209...	3.5.12T10EP	T10PL	2.5 Nm

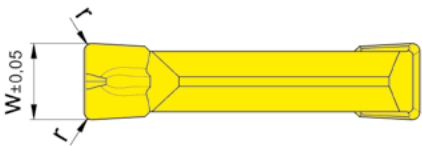
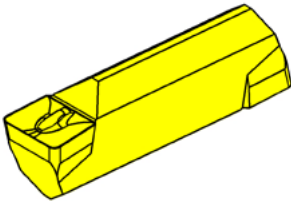
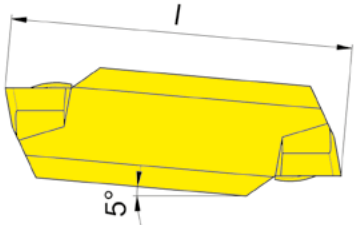
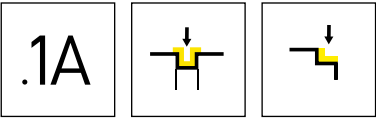


D

Coating grades

▲ In stock Δ 2 weeks

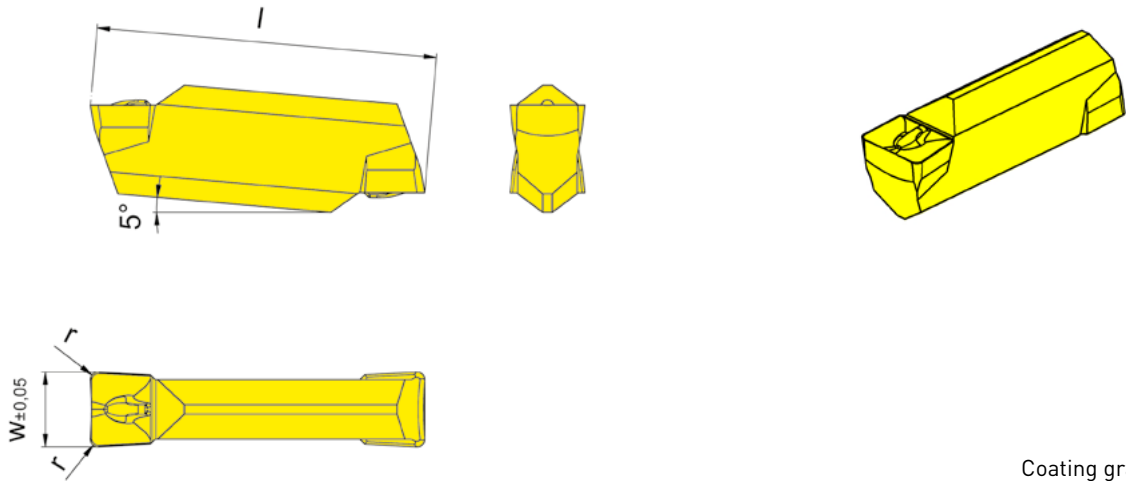
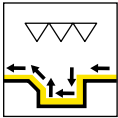
Part number	w	r	l	HIS	AS45	
S209.0200.52	2	0.2	9	20920	▲	
S209.0250.52	2.5	0.2	10	20925	▲	
S209.0300.52	3	0.2	10	20930	▲	
Dimensions in mm					P	●
					M	o
					K	o
					N	-
					S	o
					H	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS	AS45	
S209.0200.1A2	2	0.2	9	20920	▲	
S209.0250.1A2	2.5	0.2	10	20925	▲	
S209.0300.1A2	3	0.2	10	20930	▲	
Dimensions in mm					P	●
					M	●
					K	○
					N	○
					S	-
					H	-

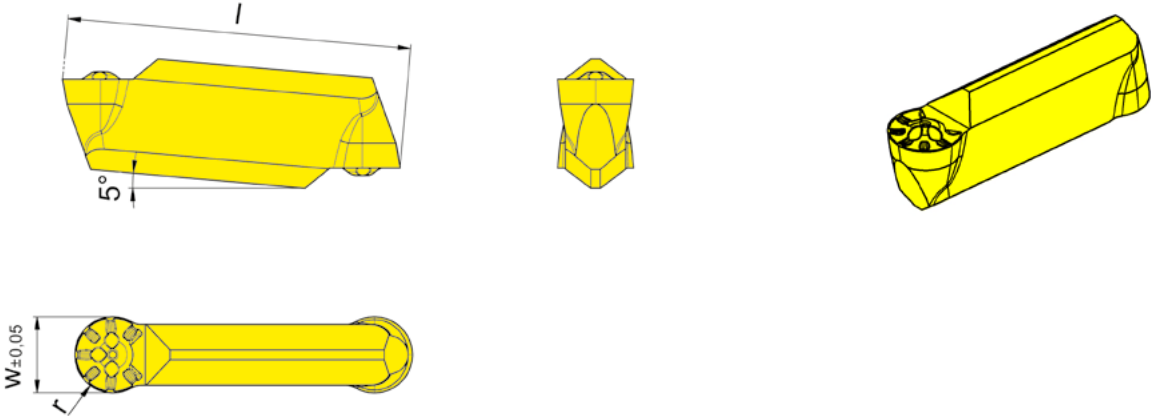
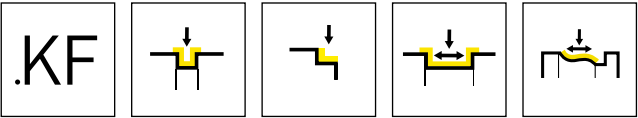


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS	EG35
S209.FB20.02	2	0.2	9	20920	▲
This insert is designed for finishing					P ●
Dimensions in mm					M ●
					K ○
					N -
					S -
					H -

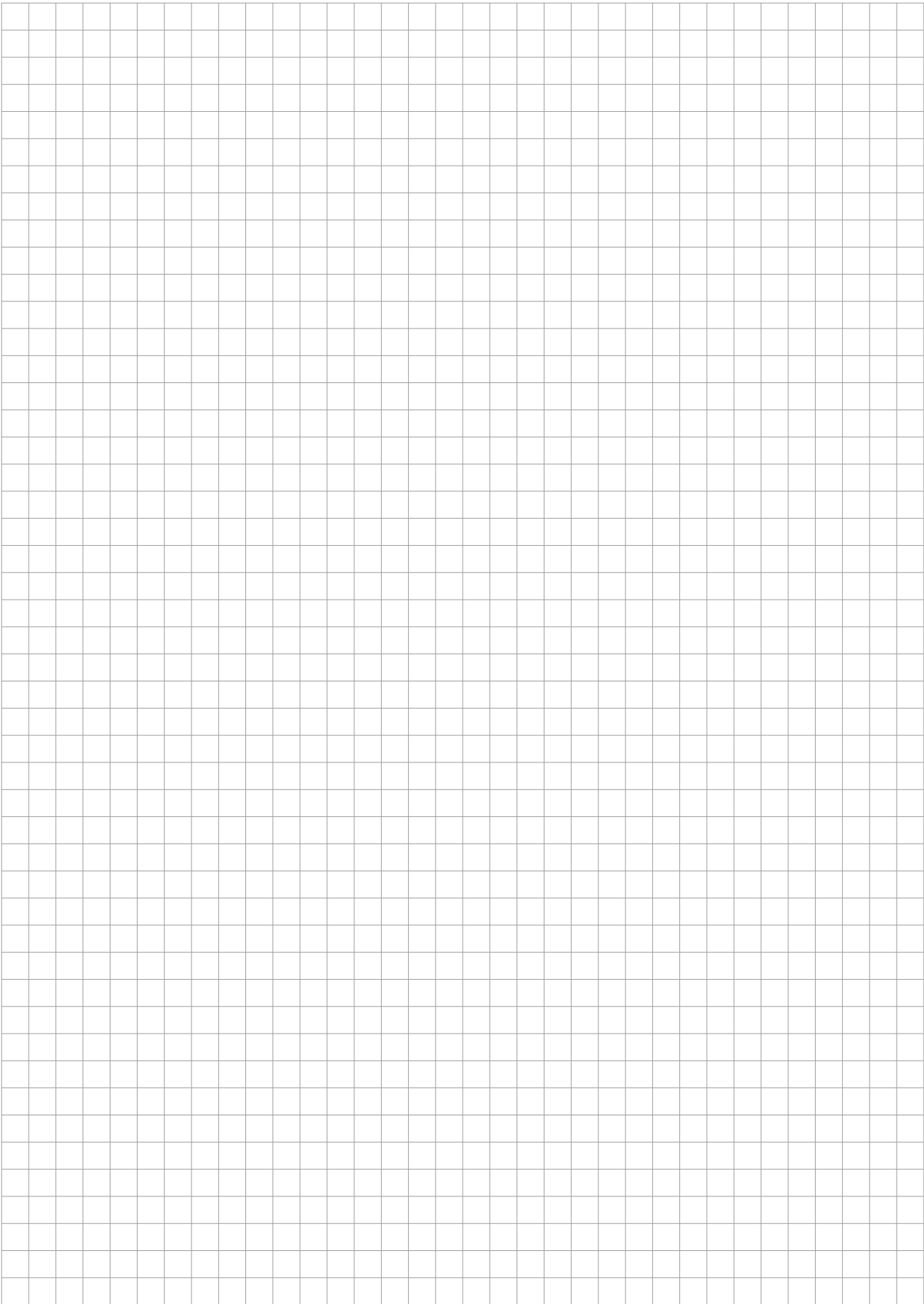
D



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS	AS45
S209.0010.KF2	2	1	9	20920	▲
S209.0015.KF3	3	1.5	10	20930	▲
Dimensions in mm					P ●
					M o
					K o
					N -
					S o
					H -



This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

E



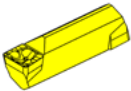
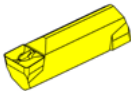
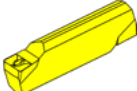
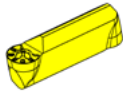
SYSTEM 216

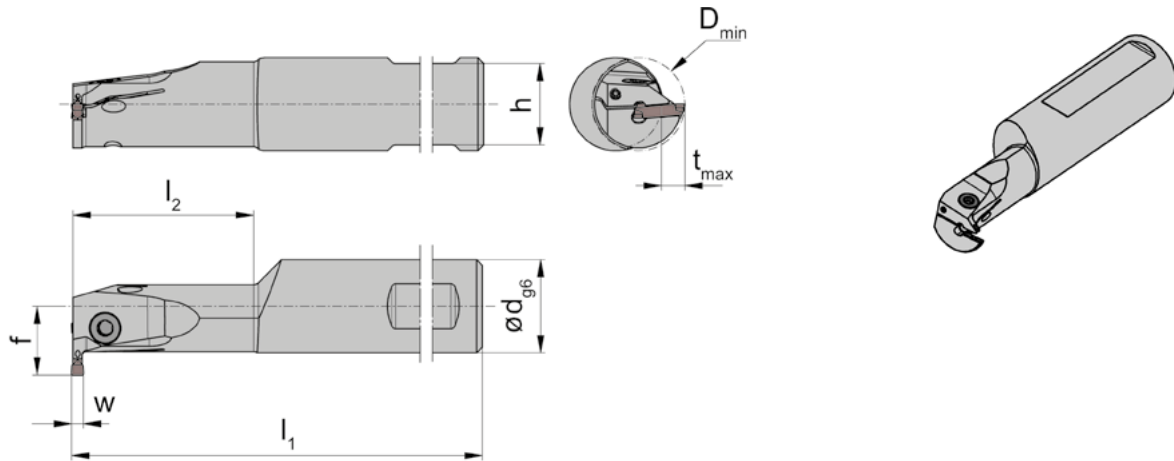
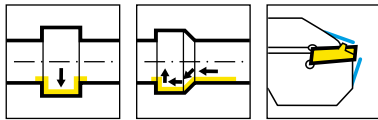
INTERNAL GROOVING AND SIDE TURNING

.078"-.236", 2-6mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Round Shank			
	 Page 140 B216 Metric Shank			
INSERTS	Grooving, Side Turning		Finishing	Full Radius
				
	Page 141 .5 Chipbreaker Grooving, Side Turning	Page 142 .1A Chipbreaker Grooving	Page 143 .FB Geometry Finishing	Page 144 .KF Chipbreaker Grooving, Side Turning
	Cutting Data and Technical Instructions - Chapter V / Page 706			



R = right hand version shown

L = left hand version

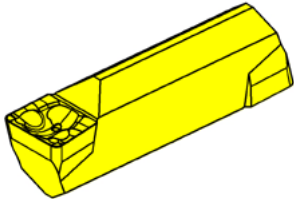
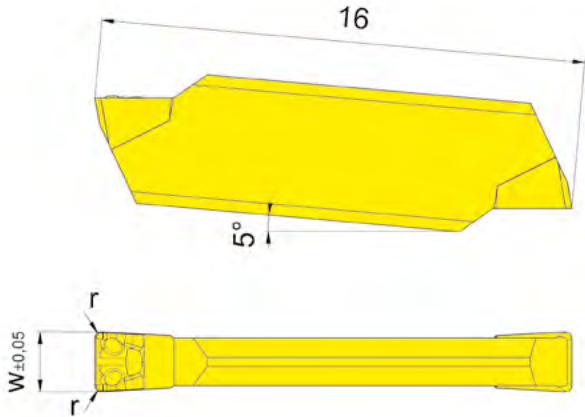
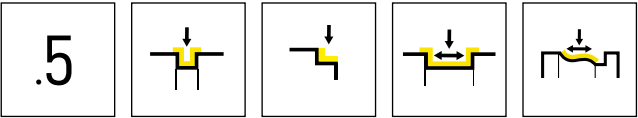
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB216.0020.1.22.IK	20	110	30	18	16.3	6	20	21620
RB216.0020.1.225.IK	20	110	30	18	16.3	6	20	21625
RB216.0020.1.23.IK	20	110	30	18	16.3	6	20	21630
RB216.0020.1.24.IK	20	110	30	18	16.3	6	20	21640
RB216.0025.2.22.IK	25	150	50	23	20.3	7.5	25	21620
RB216.0025.2.225.IK	25	150	50	23	20.3	7.5	25	21625
RB216.0025.2.23.IK	25	150	50	23	20.3	7.5	25	21630
RB216.0025.2.24.IK	25	150	50	23	20.3	7.5	25	21640
RB216.0025.23.1.22.IK	25	150	30	23	19.8	7	23	21620
RB216.0025.23.1.23.IK	25	150	30	23	19.8	7	23	21630
RB216.0025.23.1.24.IK	25	150	30	23	19.8	7	23	21640
RB216.0025.23.1.25.IK	25	150	30	23	19.8	7	23	21650
LB216.0020.1.22.IK	20	110	30	18	16.3	6	20	21620
LB216.0020.1.225.IK	20	110	30	18	16.3	6	20	21625
LB216.0020.1.23.IK	20	110	30	18	16.3	6	20	21630
LB216.0020.1.24.IK	20	110	30	18	16.3	6	20	21640
LB216.0025.2.22.IK	25	150	50	23	20.3	7.5	25	21620
LB216.0025.2.225.IK	25	150	50	23	20.3	7.5	25	21625
LB216.0025.2.23.IK	25	150	50	23	20.3	7.5	25	21630
LB216.0025.2.24.IK	25	150	50	23	20.3	7.5	25	21640
LB216.0025.23.1.22.IK	25	150	30	23	19.8	7	23	21620
LB216.0025.23.1.23.IK	25	150	30	23	19.8	7	23	21630
LB216.0025.23.1.24.IK	25	150	30	23	19.8	7	23	21640
LB216.0025.23.1.25.IK	25	150	30	23	19.8	7	23	21650
LB216.0025.23.1.26.IK	25	150	30	23	19.8	7	23	21660

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB216.0020.1....	3.5.12T10EP	T10PL	3 Nm
R/LB216.0025....	5.13T20EP	T20PQ	6 Nm



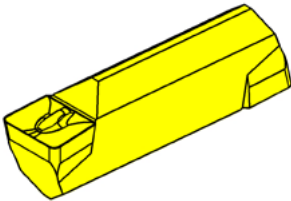
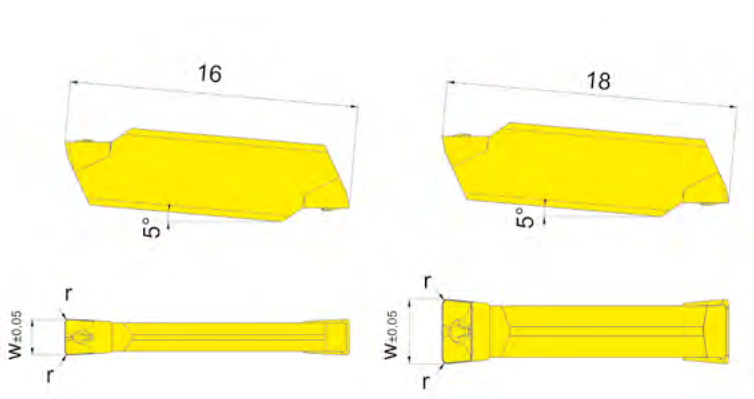
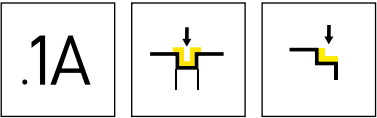
Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	AS45	
S216.0200.52	2	0.2	21620	▲	P ●
S216.0250.52	2.5	0.2	21625	▲	M o
S216.0300.52	3	0.2	21630	▲	K o
S216.0400.52	4	0.2	21640	▲	N -
S216.0500.54	5	0.4	21650	Δ	S o
S216.0600.54	6	0.4	21660	Δ	H -

Dimensions in mm

P	●
M	o
K	o
N	-
S	o
H	-



E

Width of groove .079 - .157"

Width .197 - .236"

Coating grades

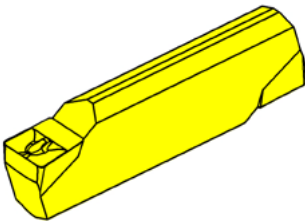
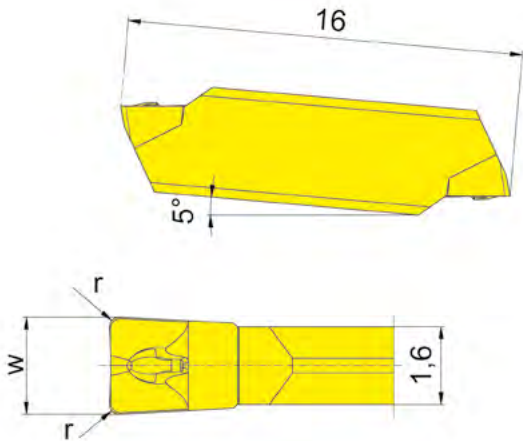
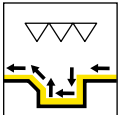
▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS45	
S216.0200.1A2	2	0.2	21620	▲	●
S216.0250.1A2	2.5	0.2	21625	Δ	●
S216.0300.1A2	3	0.2	21630	▲	●
S216.0400.1A2	4	0.2	21640	▲	●
S216.0500.1A4	5	0.4	21650	Δ	●

Dimensions in mm

P	●
M	●
K	○
N	○
S	-
H	-



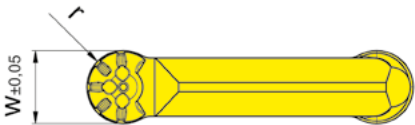
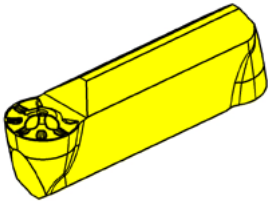
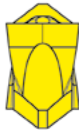
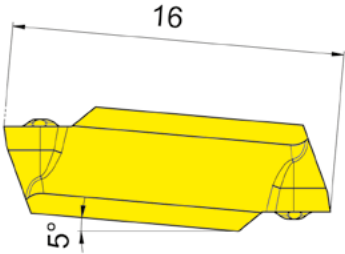
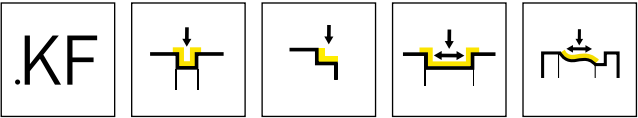
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	EG35
S216.FB20.02	2	0.2	21620	▲
This insert is designed for finishing				P ●
Dimensions in mm				M ●
				K ○
				N -
				S -
				H -

E



Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS45	
S216.0010.KF2	2	1	21620	▲	
S216.0015.KF3	3	1.5	21630	▲	
S216.0020.KF4	4	2	21640	▲	
Dimensions in mm				P	●
				M	o
				K	o
				N	-
				S	o
				H	-

E

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.



F

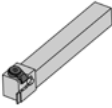
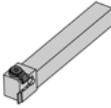
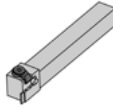
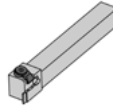
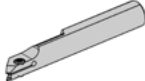
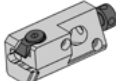
SYSTEM 217

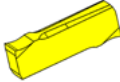
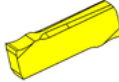
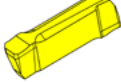
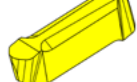
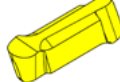
INTERNAL AND EXTERNAL GROOVING AND UNDERCUT

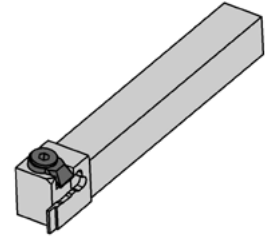
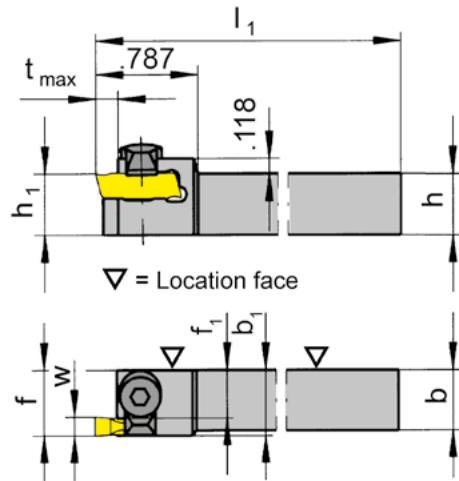
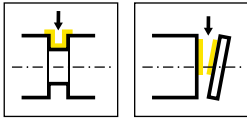
.022"-.196", 0.57-5mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Square Shank				
					
	Page 150-151 U240 Inch Shank	Page 152-153 240 Metric Shank	Page 154 U248 Swiss, Inch Shank	Page 155 248 Swiss, Metric Shank	
	Round Shank				
					
	Page 156 U230 / U250 Long Reach, Inch	Page 157 230 / 250 Long Reach, Metric	Page 158 U233 / U253 Short Reach, Inch	Page 159 233 / 253 Short Reach, Metric	Page 160 U254 Long Reach, Inch
					
	Page 161 234 / 254 Long Reach, Metric	Page 162 U235 / U255 Short Reach, Inch	Page 163 235 / 255 Short Reach, Metric	Page 164-165 Corner Cutting Inch and Metric	Page 166 232 Cartridge

INSERTS	Grooving		Undercut and Corner Cutting		
					
	Page 167 U217 .00 Geo Inch Grooving	Page 168-169 217 DIN Circlip	Page 170 217 Thread Undercut	Page 171 217 90 deg Undercut	Page 172 217 Full Rad Undercut



R = right hand version shown

L = left hand version

F

Part number	h	b	l ₁	h ₁	b ₁	f ₁	f	t _{max}	HWS
RU240.0375.01	.375	.375	3.150	.375	.512	.453	f ₁ +w-a ₁	.157	21701
RU240.0500.01	.499	.500	3.937	.500	.512	.453	f ₁ +w-a ₁	.157	21701
RU240.0625.01	.624	.625	4.921	.625	.625	.566	f ₁ +w-a ₁	.157	21701
RU240.0750.01	.749	.750	4.921	.750	.750	.691	f ₁ +w-a ₁	.157	21701
RU240.1000.01	.999	1.000	5.906	1.000	1.000	.941	f ₁ +w-a ₁	.157	21701
RU240.0375.02	.375	.375	3.150	.375	.512	.413	f ₁ +w-a ₁	.157	21702
RU240.0500.02	.500	.500	3.937	.500	.512	.413	f ₁ +w-a ₁	.157	21702
RU240.0625.02	.625	.625	4.921	.625	.625	.527	f ₁ +w-a ₁	.157	21702
RU240.0750.02	.750	.750	4.921	.750	.750	.652	f ₁ +w-a ₁	.157	21702
RU240.1000.02	1.000	1.000	5.906	1.000	1.000	.902	f ₁ +w-a ₁	.157	21702
LU240.0375.01	.374	.375	3.150	.375	.512	.453	f ₁ +w-a ₁	.157	21701
LU240.0500.01	.499	.500	3.937	.500	.512	.453	f ₁ +w-a ₁	.157	21701
LU240.0625.01	.624	.625	4.921	.625	.625	.566	f ₁ +w-a ₁	.157	21701
LU240.0750.01	.749	.750	4.921	.750	.750	.691	f ₁ +w-a ₁	.157	21701
LU240.1000.01	.999	1.000	5.906	1.000	1.000	.941	f ₁ +w-a ₁	.157	21701
LU240.0375.02	.375	.375	3.150	.375	.512	.413	f ₁ +w-a ₁	.157	21702
LU240.0500.02	.500	.500	3.937	.500	.512	.413	f ₁ +w-a ₁	.157	21702
LU240.0625.02	.625	.625	4.921	.625	.625	.527	f ₁ +w-a ₁	.157	21702
LU240.0750.02	.750	.750	4.921	.750	.750	.652	f ₁ +w-a ₁	.157	21702
LU240.1000.02	1.000	1.000	5.906	1.000	1.000	.902	f ₁ +w-a ₁	.157	21702

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"

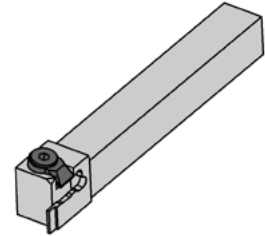
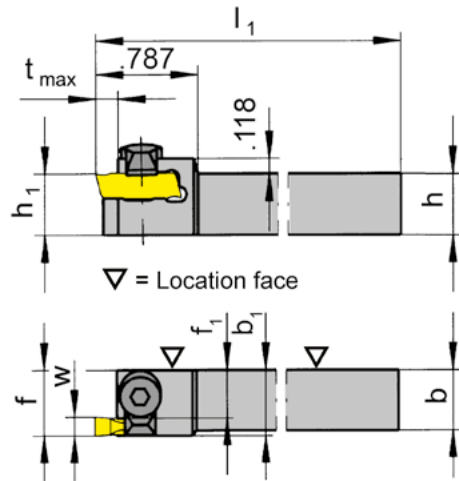
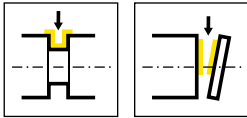
For the (w) and (a1) dimensions, see inserts

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/LU240...	5.14	8.3	2.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	b ₁	f ₁	f	t _{max}	HWS
RU240.0375.03	.375	.375	3.150	.375	.512	.374	f ₁ +w-a ₁	.157	21703
RU240.0500.03	.500	.500	3.937	.500	.512	.374	f ₁ +w-a ₁	.157	21703
RU240.0625.03	.625	.625	4.921	.625	.625	.487	f ₁ +w-a ₁	.157	21703
RU240.0750.03	.750	.750	4.921	.750	.750	.612	f ₁ +w-a ₁	.157	21703
RU240.1000.03	1.000	1.000	5.906	1.000	1.000	.862	f ₁ +w-a ₁	.157	21703
RU240.0375.04	.375	.375	3.000	.375	.591	.386	f ₁ +w-a ₁	.157	21704
RU240.0500.04	.500	.500	3.937	.500	.500	.386	f ₁ +w-a ₁	.157	21704
RU240.0625.04	.625	.625	4.921	.625	.625	.420	f ₁ +w-a ₁	.157	21704
RU240.0750.04	.750	.750	4.921	.750	.750	.545	f ₁ +w-a ₁	.157	21704
RU240.1000.04	1.000	1.000	5.906	1.000	1.000	.795	f ₁ +w-a ₁	.157	21704
LU240.0375.03	.375	.375	3.150	.375	.512	.374	f ₁ +w-a ₁	.157	21703
LU240.0500.03	.500	.500	3.937	.500	.512	.374	f ₁ +w-a ₁	.157	21703
LU240.0625.03	.625	.625	4.921	.625	.625	.487	f ₁ +w-a ₁	.157	21703
LU240.0750.03	.750	.750	4.921	.750	.750	.612	f ₁ +w-a ₁	.157	21703
LU240.1000.03	1.000	1.000	5.906	1.000	1.000	.862	f ₁ +w-a ₁	.157	21703
LU240.0375.04	.375	.375	3.000	.375	.591	.386	f ₁ +w-a ₁	.157	21704
LU240.0500.04	.500	.500	3.937	.500	.500	.386	f ₁ +w-a ₁	.157	21704
LU240.0625.04	.625	.625	4.921	.625	.625	.420	f ₁ +w-a ₁	.157	21704
LU240.0750.04	.750	.750	4.921	.750	.750	.545	f ₁ +w-a ₁	.157	21704
LU240.1000.04	1.000	1.000	5.906	1.000	1.000	.795	f ₁ +w-a ₁	.157	21704

Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

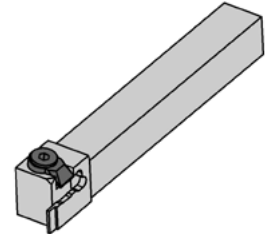
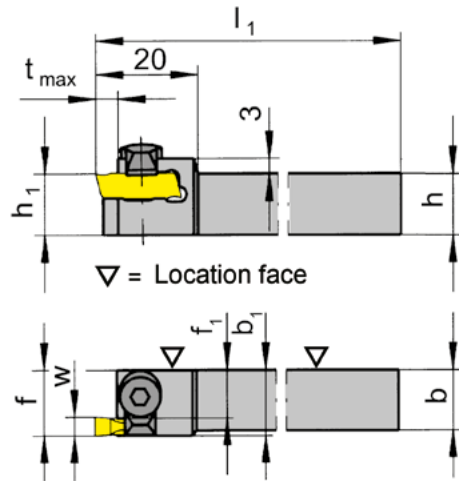
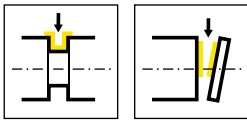
For the (w) and (a1) dimensions, see inserts

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/LU240...03	5.14	8.3	2.5 Nm
R/LU240...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	h	b	l_1	h_1	b_1	f_1	f	t_{max}	HWS
R240.1010.01	10	10	80	10	13	11.5	f_1+w-a_1	4	21701
R240.1212.01	12	12	100	12	13	11.5	f_1+w-a_1	4	21701
R240.1414.01	14	14	100	14	14	12.5	f_1+w-a_1	4	21701
R240.1616.01	16	16	125	16	16	14.5	f_1+w-a_1	4	21701
R240.2020.01	20	20	125	20	20	18.5	f_1+w-a_1	4	21701
R240.1010.02	10	10	80	10	13	10.5	f_1+w-a_1	4	21702
R240.1212.02	12	12	100	12	13	10.5	f_1+w-a_1	4	21702
R240.1414.02	14	14	100	14	14	11.5	f_1+w-a_1	4	21702
R240.1616.02	16	16	125	16	16	13.5	f_1+w-a_1	4	21702
R240.2020.02	20	20	125	20	20	17.5	f_1+w-a_1	4	21702
L240.1010.01	10	10	80	10	13	11.5	f_1+w-a_1	4	21701
L240.1212.01	12	12	100	12	13	11.5	f_1+w-a_1	4	21701
L240.1414.01	14	14	100	14	14	12.5	f_1+w-a_1	4	21701
L240.1616.01	16	16	125	16	16	14.5	f_1+w-a_1	4	21701
L240.2020.01	20	20	125	20	20	18.5	f_1+w-a_1	4	21701
L240.1010.02	10	10	80	10	13	10.5	f_1+w-a_1	4	21702
L240.1212.02	12	12	100	12	13	10.5	f_1+w-a_1	4	21702
L240.1414.02	14	14	100	14	14	11.5	f_1+w-a_1	4	21702
L240.1616.02	16	16	125	16	16	13.5	f_1+w-a_1	4	21702
L240.2020.02	20	20	125	20	20	17.5	f_1+w-a_1	4	21702

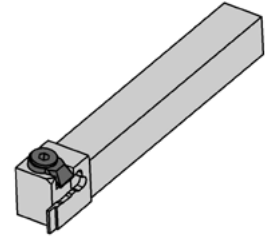
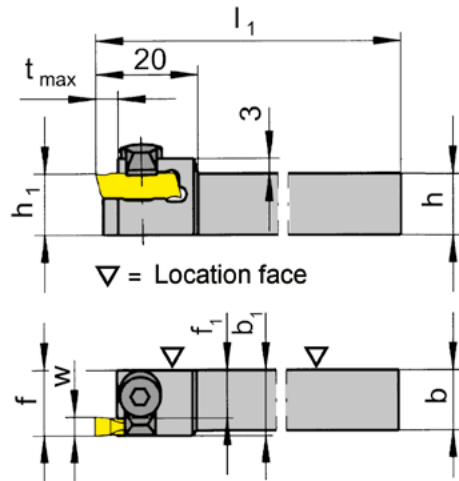
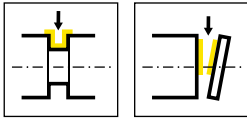
Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L240...	5.14	8.3	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	h	b	l_1	h_1	b_1	f_1	f	t_{max}	HWS
R240.1010.03	10	10	80	10	13	9.5	f_1+w-a_1	4	21703
R240.1212.03	12	12	100	12	13	9.5	f_1+w-a_1	4	21703
R240.1414.03	14	14	100	14	14	10.5	f_1+w-a_1	4	21703
R240.1616.03	16	16	125	16	16	12.5	f_1+w-a_1	4	21703
R240.2020.03	20	20	125	20	20	16.5	f_1+w-a_1	4	21703
R240.1010.04	10	10	80	10	15	9.8	f_1+w-a_1	4	21704
R240.1212.04	12	12	100	12	15	9.8	f_1+w-a_1	4	21704
R240.1616.04	16	16	125	16	16	10.8	f_1+w-a_1	4	21704
R240.2020.04	20	20	125	20	20	14.8	f_1+w-a_1	4	21704
L240.1010.03	10	10	80	10	13	9.5	f_1+w-a_1	4	21703
L240.1212.03	12	12	100	12	13	9.5	f_1+w-a_1	4	21703
L240.1414.03	14	14	100	14	14	10.5	f_1+w-a_1	4	21703
L240.1616.03	16	16	125	16	16	12.5	f_1+w-a_1	4	21703
L240.2020.03	20	20	125	20	20	16.5	f_1+w-a_1	4	21703
L240.1010.04	10	10	80	10	15	9.8	f_1+w-a_1	4	21704
L240.1212.04	12	12	100	12	15	9.8	f_1+w-a_1	4	21704
L240.1414.04	14	14	100	14	15	9.8	f_1+w-a_1	4	21704
L240.2020.04	20	20	125	20	20	14.8	f_1+w-a_1	4	21704

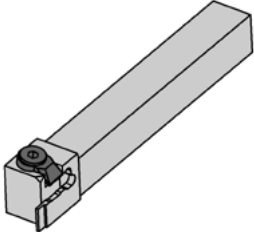
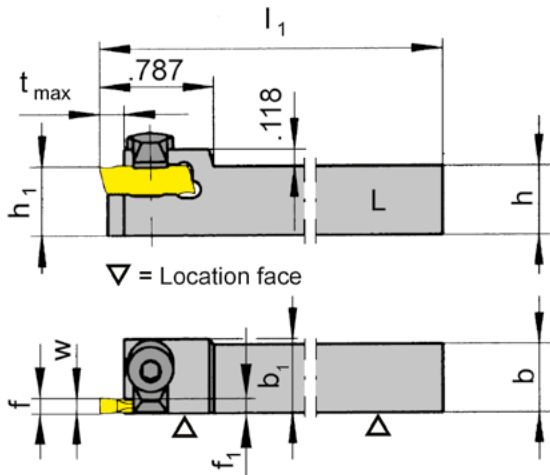
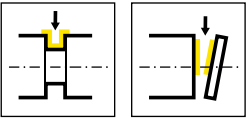
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L240...03	5.14	8.3	2.5 Nm
R/L240...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	h	b	l ₁	h ₁	b ₁	f ₁	f	t _{max}	HWS
RU248.0500.01	.500	.500	3.740	.500	.539	.480	f ₁ +a ₁	.157	21701
RU248.0500.02	.500	.500	3.740	.500	.539	.445	f ₁ +a ₁	.157	21702
LU248.0500.01	.500	.500	3.740	.500	.539	.480	f ₁ +a ₁	.157	21701
LU248.0500.02	.500	.500	3.740	.500	.539	.445	f ₁ +a ₁	.157	21702

For Swiss-type machines

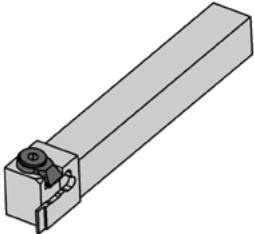
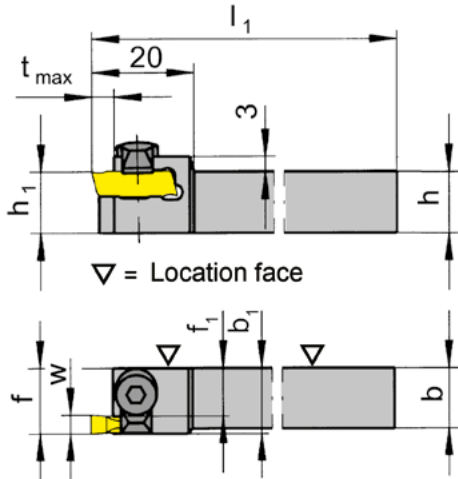
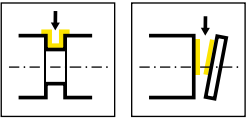
For the (w) and (a1) dimensions, see inserts

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/LU248...	5.14	8.3	2.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	b ₁	f ₁	f	t _{max}	HWS
R248.1212.01	12	12	95	12	13	1.5	f ₁ +a ₁	4	21701
R248.1212.02	12	12	95	12	13	2.5	f ₁ +a ₁	4	21702
L248.1212.01	12	12	95	12	13	1.5	f ₁ +a ₁	4	21701
L248.1212.02	12	12	95	12	13	2.5	f ₁ +a ₁	4	21702

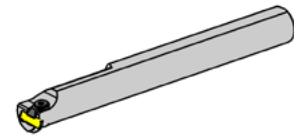
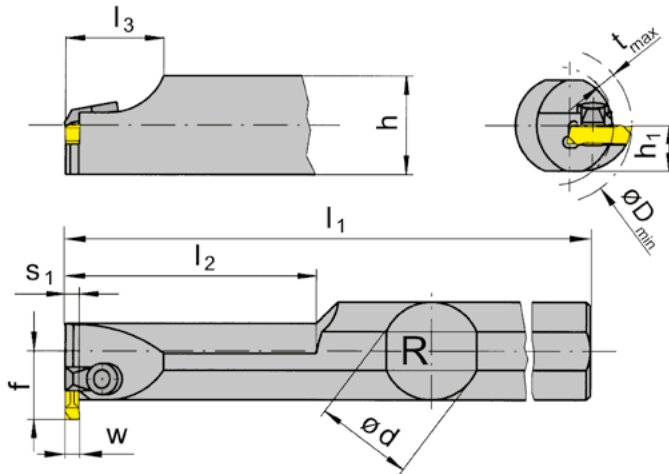
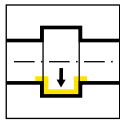
For Swiss-type machines

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L248...	5.14	8.3	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU230.0750.01	.750	7.008	2.362	.750	.672	.059	.336	.505	.118	.787	21701
RU250.1000.01	1.000	10.000	3.150	1.000	.921	.059	.461	.697	.185	.984	21701
RU250.1250.01	1.250	10.000	3.150	1.000	1.171	.059	.586	.822	.185	1.260	21701
RU230.0750.02	.750	7.008	2.362	.750	.672	.098	.336	.505	.118	.787	21702
RU250.1000.02	1.000	10.000	3.150	1.000	.921	.098	.461	.697	.185	.984	21702
RU250.1250.02	1.250	10.000	3.150	1.000	1.171	.098	.586	.822	.185	1.260	21702
RU230.0750.03	.750	7.008	2.362	.750	.672	.138	.336	.505	.118	.787	21703
RU250.1000.03	1.000	10.000	3.150	1.000	.921	.138	.461	.697	.185	.984	21703
RU250.1250.03	1.250	10.000	3.150	1.000	1.171	.138	.586	.822	.185	1.260	21703
RU230.0750.04	.750	7.008	2.362	.750	.672	.205	.336	.505	.118	.787	21704
RU250.1000.04	1.000	10.000	3.150	1.000	.921	.205	.461	.697	.185	.984	21704
RU250.1250.04	1.250	10.000	3.150	1.000	1.171	.205	.586	.822	.185	1.260	21704
LU230.0750.01	.750	7.008	2.362	.750	.672	.059	.336	.505	.118	.787	21701
LU250.1000.01	1.000	10.000	3.150	1.000	.921	.059	.461	.697	.185	.984	21701
LU250.1250.01	1.250	10.000	3.150	1.000	1.171	.059	.586	.822	.185	1.260	21701
LU230.0750.02	.750	7.008	2.362	.750	.672	.098	.336	.505	.118	.787	21702
LU250.1000.02	1.000	10.000	3.150	1.000	.921	.098	.461	.697	.185	.984	21702
LU250.1250.02	1.250	10.000	3.150	1.000	1.171	.098	.586	.822	.185	1.260	21702
LU230.0750.03	.750	7.008	2.362	.750	.672	.138	.336	.505	.118	.787	21703
LU250.1000.03	1.000	10.000	3.150	1.000	.921	.138	.461	.697	.185	.984	21703
LU250.1250.03	1.250	10.000	3.150	1.000	1.171	.138	.586	.822	.185	1.260	21703
LU230.0750.04	.750	7.008	2.362	.750	.672	.205	.336	.505	.118	.787	21704
LU250.1000.04	1.000	10.000	3.150	1.000	.921	.205	.461	.697	.185	.984	21704
LU250.1250.04	1.250	10.000	3.150	1.000	1.171	.205	.586	.822	.185	1.260	21704

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"

Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

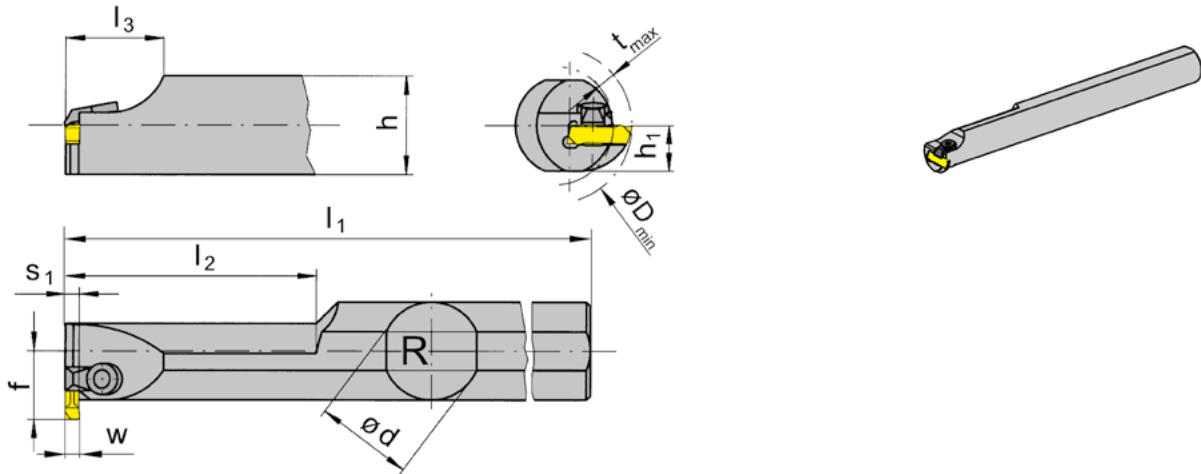
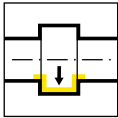
For the (w) and (a1) dimensions, see inserts

Dimensions in inch

Spare Parts



Toolholder	Screw	Clamping element	Torque Value
R/LU.230/250...	5.14	8.3	2.5 Nm
R/LU.230...04	5.14	8.4	2.5 Nm
R/LU.250...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
R230.0020.01	20	180	60	18	18	1.5	9	13.3	2	20	21701
R250.0025.01	25	250	80	25	23	1.5	11.5	17.5	4.7	25	21701
R250.0032.01	32	250	80	25	30	1.5	15	21	4.7	32	21701
R230.0020.02	20	180	60	18	18	2.5	9	13.3	2	20	21702
R250.0025.02	25	250	80	25	23	2.5	11.5	17.5	4.7	25	21702
R250.0032.02	32	250	80	25	30	2.5	15	21	4.7	32	21702
R230.0020.03	20	180	60	18	18	3.5	9	13.3	2	20	21703
R250.0025.03	25	250	80	25	23	3.5	11.5	17.5	4.7	25	21703
R250.0032.03	32	250	80	25	30	3.5	15	21	4.7	32	21703
R230.0020.04	20	180	60	18	18	5.2	9	13.3	3	20	21704
R250.0025.04	25	250	80	25	23	5.2	11.5	17.5	4.7	25	21704
L230.0020.01	20	180	60	18	18	1.5	9	13.3	2	20	21701
L250.0025.01	25	250	80	25	23	1.5	11.5	17.5	4.7	25	21701
L250.0032.01	32	250	80	25	30	1.5	15	21	4.7	32	21701
L230.0020.02	20	180	60	18	18	2.5	9	13.3	2	20	21702
L250.0025.02	25	250	80	25	23	2.5	11.5	17.5	4.7	25	21702
L250.0032.02	32	250	80	25	30	2.5	15	21	4.7	32	21702
L230.0020.03	20	180	60	18	18	3.5	9	13.3	2	20	21703
L250.0025.03	25	250	80	25	23	3.5	11.5	17.5	4.7	25	21703
L230.0020.04	20	180	60	18	18	5.2	9	13.3	3	20	21704
L250.0025.04	25	250	80	25	23	5.2	11.5	17.5	4.7	25	21704

Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

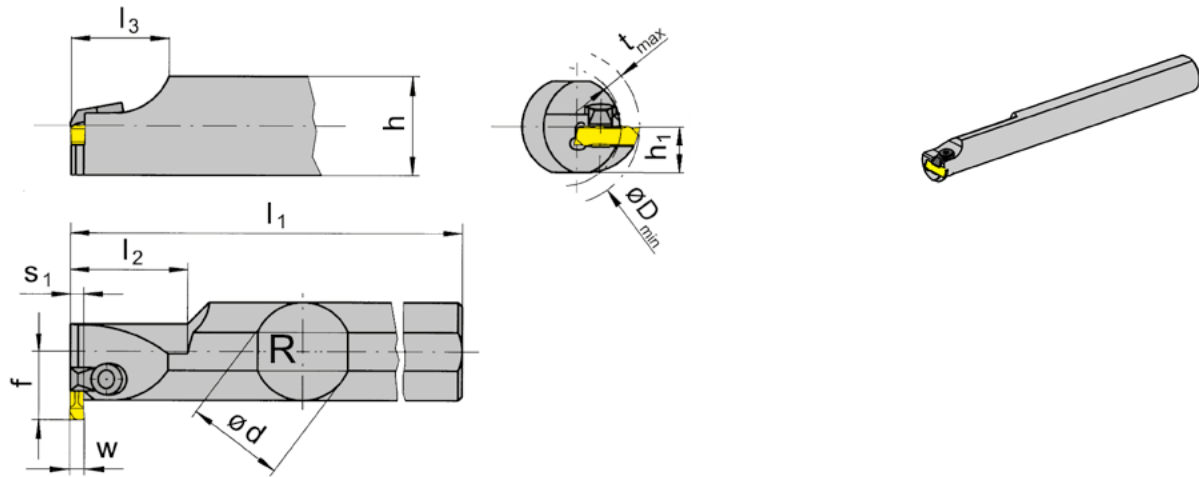
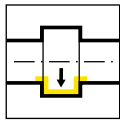
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L230/250...	5.14	8.3	2.5 Nm
R/L230...04	5.14	8.4	2.5 Nm
R/L250...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU233.0750.01	.750	5.000	.984	.750	.672	.059	.336	.505	.118	.787	21701
RU253.1000.01	1.000	5.984	1.181	1.000	.921	.059	.461	.697	.185	.984	21701
RU253.1250.01	1.250	5.984	1.181	1.000	1.171	.059	.586	.822	.185	1.260	21701
RU233.0750.02	.750	5.000	.984	.750	.672	.098	.336	.505	.118	.787	21702
RU253.1000.02	1.000	5.984	1.181	1.000	.921	.098	.461	.697	.185	.984	21702
RU253.1250.02	1.250	5.984	1.181	1.000	1.171	.098	.586	.822	.185	1.260	21702
RU233.0750.03	.750	5.000	.984	.750	.672	.138	.336	.505	.118	.787	21703
RU253.1000.03	1.000	5.984	1.181	1.000	.921	.138	.461	.697	.185	.984	21703
RU253.1250.03	1.250	5.984	1.181	1.000	1.171	.138	.586	.822	.185	1.260	21703
RU233.0750.04	.750	5.000	.984	.750	.672	.205	.336	.505	.118	.787	21704
RU253.1000.04	1.000	5.984	1.181	1.000	.921	.205	.461	.697	.185	.984	21704
RU253.1250.04	1.250	5.984	1.181	1.000	1.171	.205	.586	.822	.185	1.260	21704
LU233.0750.01	.750	5.000	.984	.750	.672	.059	.336	.505	.118	.787	21701
LU253.1000.01	1.000	5.984	1.181	1.000	.921	.059	.461	.697	.185	.984	21701
LU253.1250.01	1.250	5.984	1.181	1.000	1.171	.059	.586	.822	.185	1.260	21701
LU233.0750.02	.750	5.000	.984	.750	.672	.098	.336	.505	.118	.787	21702
LU253.1000.02	1.000	5.984	1.181	1.000	.921	.098	.461	.697	.185	.984	21702
LU253.1250.02	1.250	5.984	1.181	1.000	1.171	.098	.586	.822	.185	1.260	21702
LU233.0750.03	.750	5.000	.984	.750	.672	.138	.336	.505	.118	.787	21703
LU253.1000.03	1.000	5.984	1.181	1.000	.921	.138	.461	.697	.185	.984	21703
LU253.1250.03	1.250	5.984	1.181	1.000	1.171	.138	.586	.822	.185	1.260	21703
LU233.0750.04	.750	5.000	.984	.750	.672	.205	.336	.505	.118	.787	21704
LU253.1000.04	1.000	5.984	1.181	1.000	.921	.205	.461	.697	.185	.984	21704
LU253.1250.04	1.250	5.984	1.181	1.000	1.171	.205	.586	.822	.185	1.260	21704

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"

Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

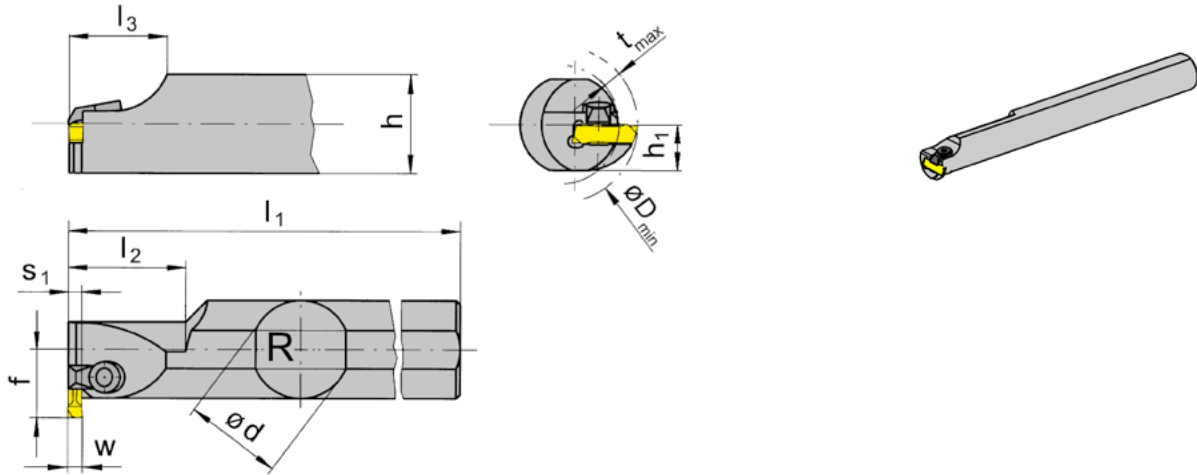
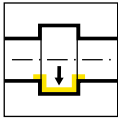
For the (w) and (a1) dimensions, see inserts

Dimensions in inch

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L233/253...	5.14	8.3	2.5 Nm
R/L233...04	5.14	8.4	2.5 Nm
R/L253...04	5.14	8.4	2.5 Nm





R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
R233.0020.01	20	130	25	18	18	1.5	9	13.3	2	20	21701
R253.0025.01	25	150	30	25	23	1.5	11.5	17.5	4.7	25	21701
R253.0032.01	32	150	30	25	30	1.5	15	21	4.7	32	21701
R233.0020.02	20	130	25	18	18	2.5	9	13.3	2	20	21702
R253.0025.02	25	150	30	25	23	2.5	11.5	17.5	4.7	25	21702
R253.0032.02	32	150	30	25	30	2.5	15	21	4.7	32	21702
R233.0020.03	20	130	25	18	18	3.5	9	13.3	2	20	21703
R253.0025.03	25	150	30	25	23	3.5	11.5	17.5	4.7	25	21703
R253.0032.03	32	150	30	25	30	3.5	15	21	4.7	32	21703
R233.0020.04	20	130	25	18	18	5.2	9	13.3	3	20	21704
R253.0025.04	25	150	30	25	23	5.2	11.5	17.5	4.7	25	21704
R253.0032.04	32	150	30	25	30	5.2	15	21	4.7	32	21704
L233.0020.01	20	130	25	18	18	1.5	9	13.3	2	20	21701
L253.0025.01	25	150	30	25	23	1.5	11.5	17.5	4.7	25	21701
L253.0032.01	32	150	30	25	30	1.5	15	21	4.7	32	21701
L233.0020.02	20	130	25	18	18	2.5	9	13.3	2	20	21702
L253.0025.02	25	150	30	25	23	2.5	11.5	17.5	4.7	25	21702
L253.0032.02	32	150	30	25	30	2.5	15	21	4.7	32	21702
L233.0020.03	20	130	25	18	18	3.5	9	13.3	2	20	21703
L253.0025.03	25	150	30	25	23	3.5	11.5	17.5	4.7	25	21703
L253.0032.03	32	150	30	25	30	3.5	15	21	4.7	32	21703
L233.0020.04	20	130	25	18	18	5.2	9	13.3	3	20	21704
L253.0025.04	25	150	30	25	23	5.2	11.5	17.5	4.7	25	21704
L253.0032.04	32	150	30	25	30	5.2	15	21	4.7	32	21704

Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

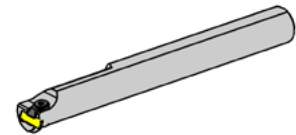
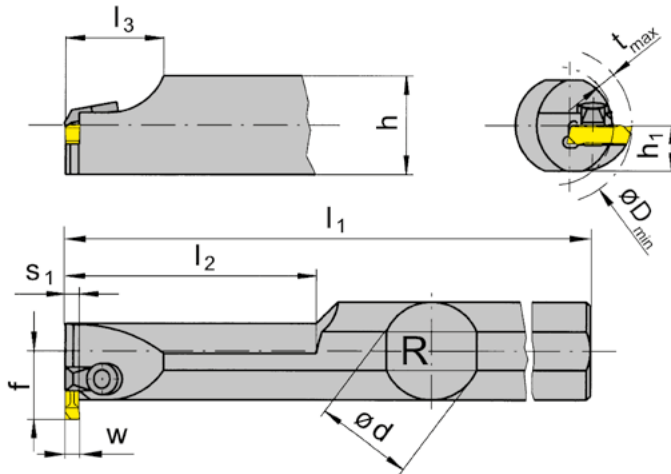
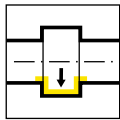
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L233/253...	5.14	8.3	2.5 Nm
R/L233...04	5.14	8.4	2.5 Nm
R/L253...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU254.1000.01	1.000	10	3.150	1.000	.921	.059	.461	.697	.185	.984	21701
RU254.1250.01	1.250	10	3.150	1.000	1.171	.059	.586	.822	.185	1.260	21701
RU254.1000.02	1.000	10	3.150	1.000	.921	.098	.461	.697	.185	.984	21702
RU254.1250.02	1.250	10	3.150	1.000	1.171	.098	.586	.822	.185	1.260	21702
RU254.1000.03	1.000	10	3.150	1.000	.921	.138	.461	.697	.185	.984	21703
RU254.1250.03	1.250	10	3.150	1.000	1.171	.138	.586	.822	.185	1.260	21703
RU254.1000.04	1.000	10	3.150	1.000	.921	.205	.461	.697	.185	.984	21704
RU254.1250.04	1.250	10	3.150	1.000	1.171	.205	.586	.822	.185	1.260	21704
LU254.1000.01	1.000	10	3.150	1.000	.921	.059	.461	.697	.185	.984	21701
LU254.1250.01	1.250	10	3.150	1.000	1.171	.059	.586	.822	.185	1.260	21701
LU254.1000.02	1.000	10	3.150	1.000	.921	.098	.461	.697	.185	.984	21702
LU254.1250.02	1.250	10	3.150	1.000	1.171	.098	.586	.822	.185	1.260	21702
LU254.1000.03	1.000	10	3.150	1.000	.921	.138	.461	.697	.185	.984	21703
LU254.1250.03	1.250	10	3.150	1.000	1.171	.138	.586	.822	.185	1.260	21703
LU254.1000.04	1.000	10	3.150	1.000	.921	.205	.461	.697	.185	.984	21704
LU254.1250.04	1.250	10	3.150	1.000	1.171	.205	.586	.822	.185	1.260	21704

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"
 Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

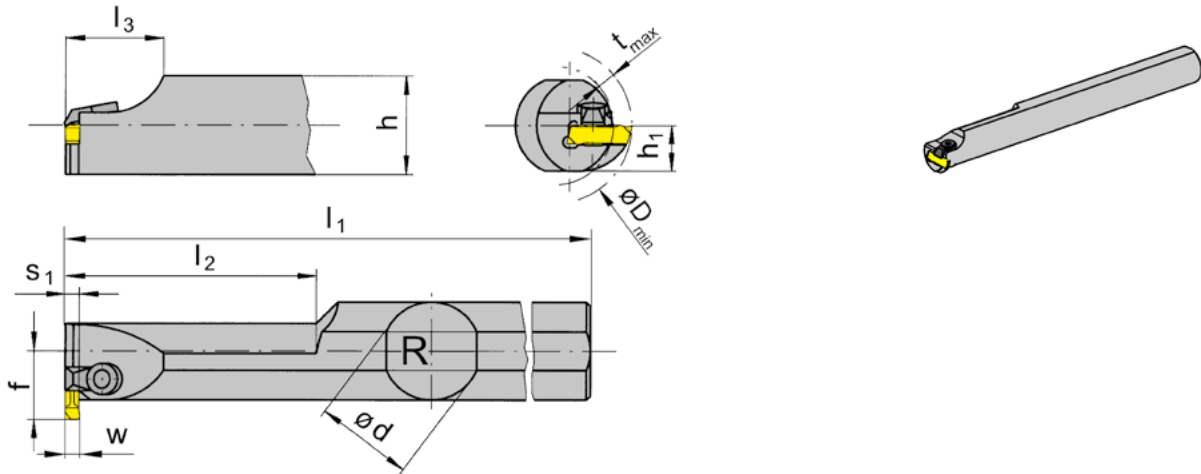
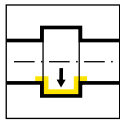
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/LU254...	5.14	8.3	2.5 Nm
R/LU254...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
R234.0020.01	20	180	60	18	18	1.5	9	13.3	2	20	21701
R254.0025.01	25	250	80	25	23	1.5	11.5	17.5	4.7	25	21701
R254.0032.01	32	250	80	25	30	1.5	15	21	4.7	32	21701
R234.0020.02	20	180	60	18	18	2.5	9	13.3	2	20	21702
R254.0025.02	25	250	80	25	23	2.5	11.5	17.5	4.7	25	21702
R254.0032.02	32	250	80	25	30	2.5	15	21	4.7	32	21702
R234.0020.03	20	180	60	18	18	3.5	9	13.3	2	20	21703
R254.0032.03	32	250	80	25	30	3.5	15	21	4.7	32	21703
R234.0020.04	20	180	60	18	18	5.2	9	13.3	3	20	21704
R254.0025.04	25	250	80	25	23	5.2	11.5	17.5	4.7	25	21704
R254.0032.04	32	250	80	25	30	5.2	15	21	4.7	32	21704
L234.0020.01	20	180	60	18	18	1.5	9	13.3	2	20	21701
L254.0025.01	25	250	80	25	23	1.5	11.5	17.5	4.7	25	21701
L254.0032.01	32	250	80	25	30	1.5	15	21	4.7	32	21701
L234.0020.02	20	180	60	18	18	2.5	9	13.3	2	20	21702
L254.0025.02	25	250	80	25	23	2.5	11.5	17.5	4.7	25	21702
L254.0032.02	32	250	80	25	30	2.5	15	21	4.7	32	21702
L234.0020.03	20	180	60	18	18	3.5	9	13.3	2	20	21703
L254.0025.03	25	250	80	25	23	3.5	11.5	17.5	4.7	25	21703
L254.0032.03	32	250	80	25	30	3.5	15	21	4.7	32	21703
L234.0020.04	20	180	60	18	18	5.2	9	13.3	3	20	21704
L254.0025.04	25	250	80	25	23	5.2	11.5	17.5	4.7	25	21704
L254.0032.04	32	250	80	25	30	5.2	15	21	4.7	32	21704

Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

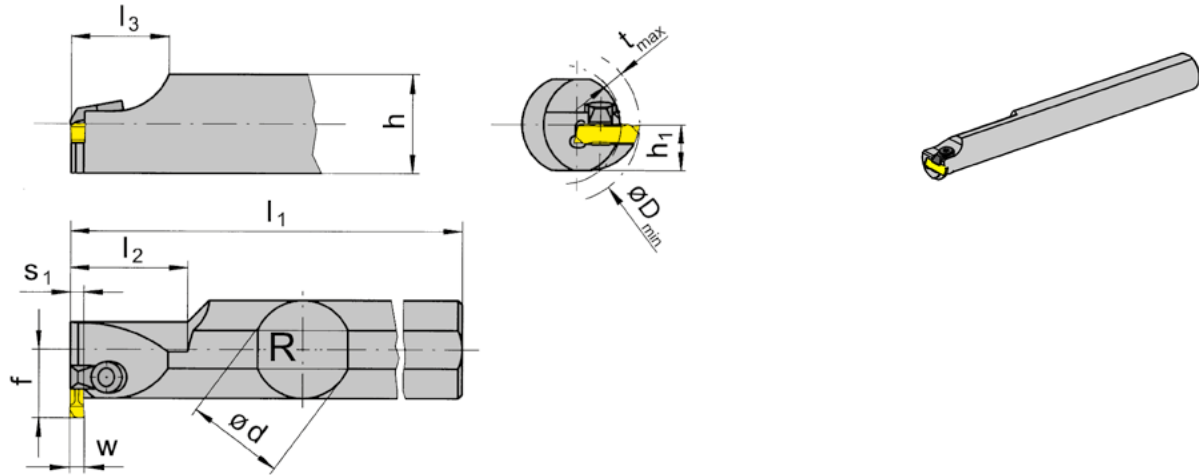
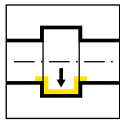
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L234/254...	5.14	8.3	2.5 Nm
R/L234...04	5.14	8.4	2.5 Nm
R/L254...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version shown

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU235.0750.01	.750	5.000	.984	.750	.672	.059	.336	.505	.118	.787	21701
RU255.1000.01	1.000	5.984	1.181	1.000	.921	.059	.461	.697	.185	.984	21701
RU255.1250.01	1.250	5.984	1.181	1.000	1.181	.059	.591	.822	.185	1.260	21701
RU235.0750.02	.750	5.000	.984	.750	.672	.098	.336	.505	.118	.787	21702
RU255.1000.02	1.000	5.984	1.181	1.000	.922	.098	.461	.697	.185	.984	21702
RU255.1250.02	1.250	5.984	1.181	1.000	1.172	.098	.586	.822	.185	1.260	21702
RU235.0750.03	.750	5.000	.984	.750	.672	.138	.336	.505	.118	.787	21703
RU255.1000.03	1.000	5.984	1.181	1.000	.921	.138	.461	.697	.185	.984	21703
RU255.1250.03	1.250	5.984	1.181	1.000	1.172	.138	.586	.822	.185	1.260	21703
RU235.0750.04	.750	5.000	.984	.750	.672	.205	.336	.505	.118	.787	21704
RU255.1000.04	1.000	5.984	1.181	1.000	.922	.205	.461	.697	.185	.984	21704
RU255.1250.04	1.250	5.984	1.181	1.000	1.172	.205	.586	.822	.185	1.260	21704
LU235.0750.01	.750	5.000	.984	.750	.672	.059	.336	.505	.118	.787	21701
LU255.1000.01	1.000	5.984	1.181	1.000	.921	.059	.461	.697	.185	.984	21701
LU255.1250.01	1.250	5.984	1.181	1.000	1.181	.059	.591	.822	.185	1.260	21701
LU235.0750.02	.750	5.000	.984	.750	.672	.098	.336	.505	.118	.787	21702
LU255.1000.02	1.000	5.984	1.181	1.000	.922	.098	.461	.697	.185	.984	21702
LU255.1250.02	1.250	5.984	1.181	1.000	1.172	.098	.586	.822	.185	1.260	21702
LU235.0750.03	.750	5.000	.984	.750	.672	.138	.336	.505	.118	.787	21703
LU255.1000.03	1.000	5.984	1.181	1.000	.921	.138	.461	.697	.185	.984	21703
LU255.1250.03	1.250	5.984	1.181	1.000	1.172	.138	.586	.822	.185	1.260	21703
LU235.0750.04	.750	5.000	.984	.750	.672	.205	.336	.505	.118	.787	21704
LU255.1000.04	1.000	5.984	1.181	1.000	.922	.205	.461	.697	.185	.984	21704
LU255.1250.04	1.250	5.984	1.181	1.000	1.172	.205	.586	.822	.185	1.260	21704

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"

Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

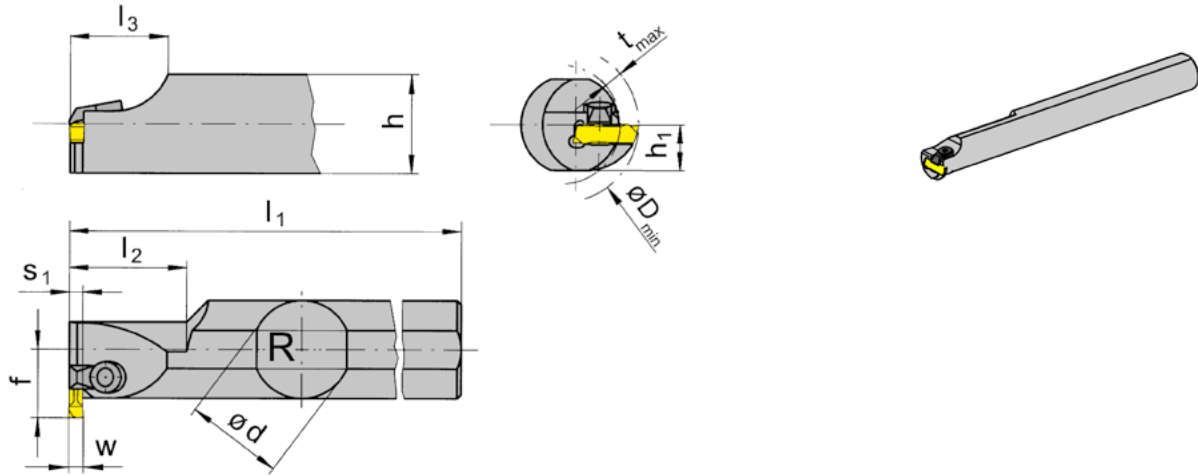
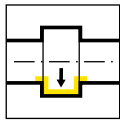
For the (w) dimension, see inserts

Dimensions in inch

Spare Parts



Toolholder	Screw	Clamping element	Torque Value
R/LU235/255...	5.14	8.3	2.5 Nm
R/LU235...04	5.14	8.4	2.5 Nm
R/LU255...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
R235.0020.01	20	130	25	18	18	1.5	9	13.3	2	20	21701
R255.0025.01	25	150	30	25	23	1.5	11.5	17.5	4.7	25	21701
R255.0032.01	32	150	30	25	30	1.5	15	21	4.7	32	21701
R235.0020.02	20	130	25	18	18	2.5	9	13.3	2	20	21702
R255.0025.02	25	150	30	25	23	2.5	11.5	17.5	4.7	25	21702
R255.0032.02	32	150	30	25	30	2.5	15	21	4.7	32	21702
R235.0020.03	20	130	25	18	18	3.5	9	13.3	2	20	21703
R255.0025.03	25	150	30	25	23	3.5	11.5	17.5	4.7	25	21703
R255.0032.03	32	150	30	25	30	3.5	15	21	4.7	32	21703
R235.0020.04	20	130	25	18	18	5.2	9	13.3	3	20	21704
R255.0025.04	25	150	30	25	23	5.2	11.5	17.5	4.7	25	21704
R255.0032.04	32	150	30	25	30	5.2	15	21	4.7	32	21704
L235.0020.01	20	130	25	18	18	1.5	9	13.3	2	20	21701
L255.0025.01	25	150	30	25	23	1.5	11.5	17.5	4.7	25	21701
L255.0032.01	32	150	30	25	30	1.5	15	21	4.7	32	21701
L235.0020.02	20	130	25	18	18	2.5	9	13.3	2	20	21702
L255.0025.02	25	150	30	25	23	2.5	11.5	17.5	4.7	25	21702
L255.0032.02	32	150	30	25	30	2.5	15	21	4.7	32	21702
L235.0020.03	20	130	25	18	18	3.5	9	13.3	2	20	21703
L255.0025.03	25	150	30	25	23	3.5	11.5	17.5	4.7	25	21703
L255.0032.03	32	150	30	25	30	3.5	15	21	4.7	32	21703
L235.0020.04	20	130	25	18	18	5.2	9	13.3	3	20	21704
L255.0025.04	25	150	30	25	23	5.2	11.5	17.5	4.7	25	21704
L255.0032.04	32	150	30	25	30	5.2	15	21	4.7	32	21704

Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

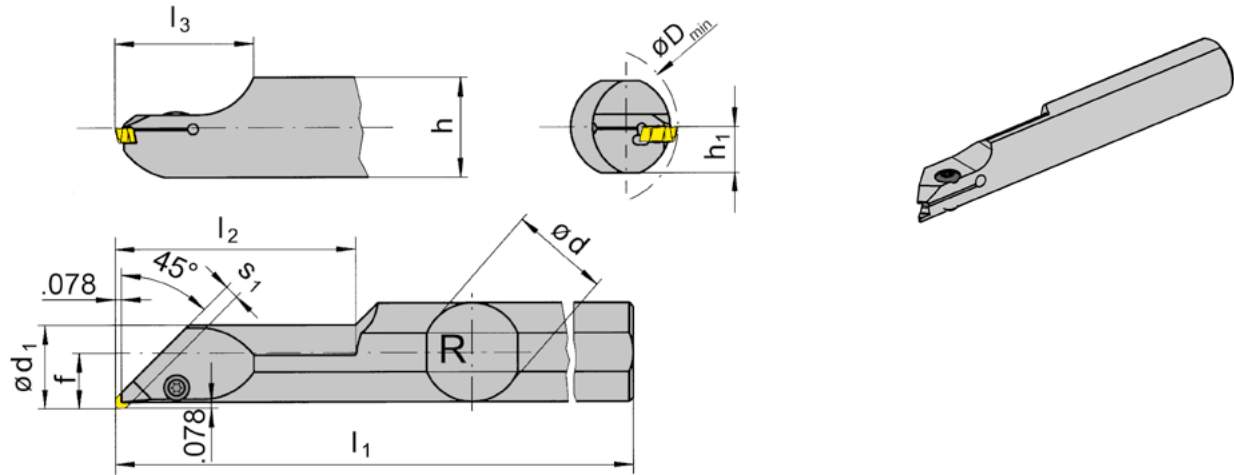
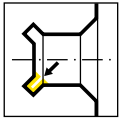
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	Torque Value
R/L235/255...	5.14	8.3	2.5 Nm
R/L235...04	5.14	8.4	2.5 Nm
R/L255...04	5.14	8.4	2.5 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₂	h	l ₁	h ₁	f	D _{min}	d ₁	s ₁	l ₃	HWS
RU245.0750.02	.750	2.359	.671	7.025	.336	.470	.787	.694	.098	1.402	21702
RU245.1000.02	1.000	3.167	.921	10.017	.461	.596	.984	1.096	.098	1.750	21702
RU245.1250.02	1.250	3.285	1.171	10.017	.586	.726	1.220	1.142	.098	1.750	21702
RU245.0750.03	.750	2.387	.671	7.033	.336	.478	.787	.705	.138	1.378	21703
RU245.1000.03	1.000	3.273	.921	10.025	.461	.604	.984	.880	.138	1.750	21703
RU245.1250.03	1.250	3.254	1.171	10.025	.586	.734	1.220	1.135	.138	1.750	21703
RU245.0750.04	.750	2.401	.672	7.047	.336	.493	.787	.716	.205	1.248	21704
RU245.1000.04	1.000	3.287	.921	10.039	.461	.618	.984	.894	.205	1.750	21704
RU245.1250.04	1.250	3.189	1.172	10.039	.586	.743	1.220	1.149	.205	1.656	21704
LU245.0750.02	.750	2.359	.671	7.025	.336	.470	.787	.694	.098	1.402	21702
LU245.1250.02	1.250	3.285	1.171	10.017	.586	.726	1.220	1.142	.098	1.750	21702
LU245.0750.03	.750	2.387	.671	7.033	.336	.478	.787	.706	.138	1.378	21703
LU245.1000.03	1.000	3.273	.921	10.025	.461	.604	.984	.880	.138	1.750	21703
LU245.1250.03	1.250	3.254	1.171	10.025	.586	.734	1.220	1.135	.138	1.750	21703
LU245.0750.04	.750	2.401	.672	7.047	.336	.493	.787	.716	.205	1.248	21704
LU245.1250.04	1.250	3.189	1.172	10.039	.586	.743	1.220	1.149	.205	1.656	21704

Holders ending in .01 have a clamp range of .020"-.067", holders ending in .02 have a clamp range of .067"-.106"

Holders ending in .03 have a clamp range of .106"-.146", holders ending in .04 have a clamp range of .146"-.209"

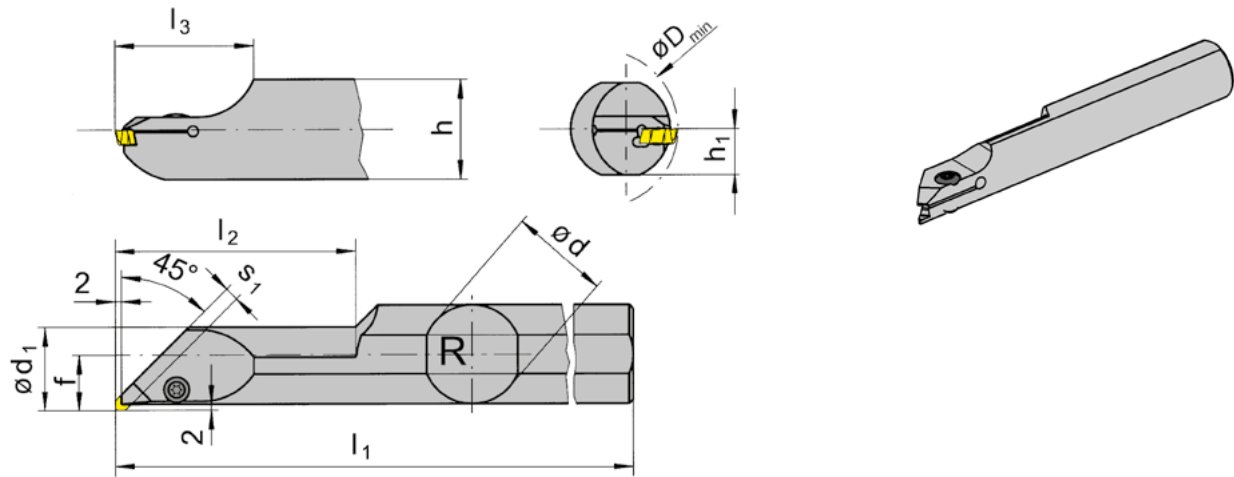
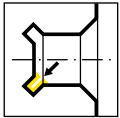
Similar to DIN 509 form "F"

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LU245...	51.27.984P	T15PQ	4 Nm



R = right hand version shown

L = left hand version

F

Part number	d	l ₂	h	l ₁	h ₁	f	D _{min}	d ₁	s ₁	l ₃	HWS
R245.0020.02	20	60.43	18	180	9	12	20	17.2	2.5	35.6	21702
R245.0032.02	32	80	30	250	15	18	31	28.2	2.5	41.6	21702
R245.0020.03	20	60	18	180	9	12	20	17.2	3.5	35	21703
R245.0032.03	32	80.64	30	250	15	18	31	28.2	3.5	41.82	21703
R245.0020.04	20	60.99	18	180	9	12	20	17.2	5.2	36.17	21704
R245.0032.04	32	80.99	30	250	15	18	31	28.2	5.2	42.17	21704
L245.0020.02	20	60.43	18	180	9	12	20	17.2	2.5	35.6	21702
L245.0032.02	32	80	30	250	15	18	31	28.2	2.5	41.6	21702
L245.0020.03	20	60	18	180	9	12	20	17.2	3.5	35	21703
L245.0032.03	32	80.64	30	250	15	18	31	28.2	3.5	41.82	21703
L245.0020.04	20	60.99	18	180	9	12	20	17.2	5.2	36.17	21704
L245.0032.04	32	80.99	30	250	15	18	31	28.2	5.2	42.17	21704

Holders ending in .01 have a clamp range of 0.5-1.7 mm, holders ending in .02 have a clamp range of 1.7-2.7 mm

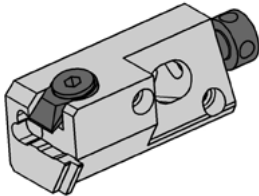
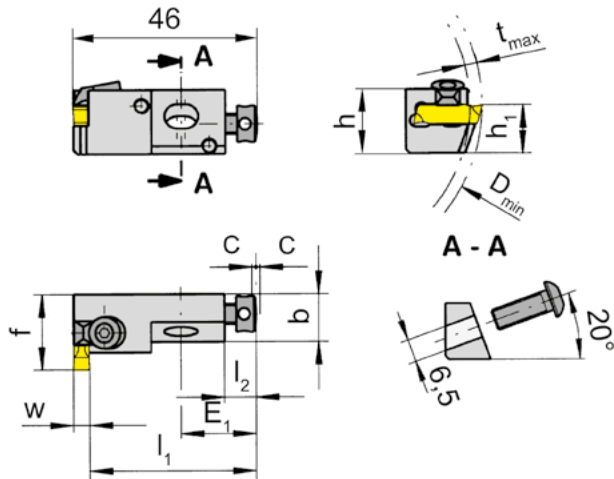
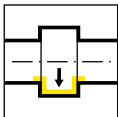
Holders ending in .03 have a clamp range of 2.7-3.7 mm, holders ending in .04 have a clamp range of 3.7-5.3 mm

Similar to DIN 509 form "F"

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L245...	51.27.984P	T15PQ	4 Nm



R = right hand version shown L = left hand version

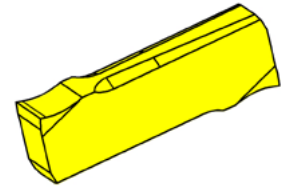
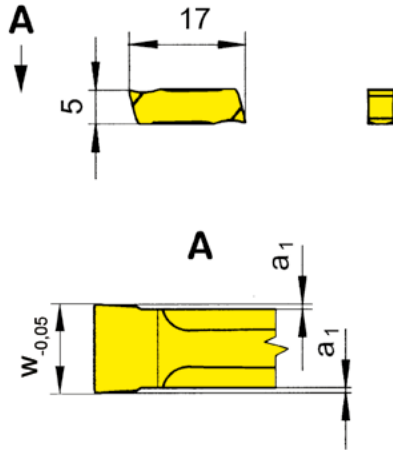
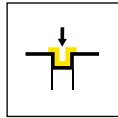
Part number	h	b	h ₁	f	l ₁	E ₁	l ₂	C	D _{min}	t _{max}	HWS
R232.1212.01	16	12	12	19	44.4	19	8	1	40	3	21701
R232.1212.03	16	12	12	19	42.4	19	8	1	40	3	21703
R232.1212.04	16	12	12	19	40.7	19	8	1	40	3	21704

For the (w) dimension, see inserts

Dimensions of seating see following page

Spare Parts

Cartridge	Clamping Screw	Clamping element	Torque Value
R232.1212....	4.08.913	8.3	3 Nm
R232.1212.04	4.08.913	8.4	3 Nm



Coating grades

▲ In stock

Δ 2 weeks

F

Part number	w	a ₁	HIS		K10	MG12	P20	TF45	TF46	TN32
U217.0026.00	.026	.002	21701							▲
U217.0031.00	.031	.002	21701					▲	▲	▲
U217.0034.00	.034	.002	21701		Δ					Δ
U217.0039.00	.039	.002	21701							▲
U217.0040.00	.040	.002	21701				Δ			▲
U217.0046.00	.046	.004	21701					▲	▲	▲
U217.0056.00	.056	.004	21701		▲					▲
U217.0062.00	.062	.004	21701		▲		▲	▲	▲	▲
U217.0078.00	.078	.004	21702		▲					▲
U217.0094.00	.094	.004	21702					▲	▲	▲
U217.0125.00	.125	.004	21703		▲	▲		▲		▲
U217.0157.00	.157	.004	21704					▲		▲
U217.0188.00	.188	.004	21704							▲

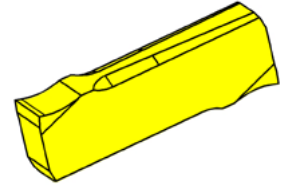
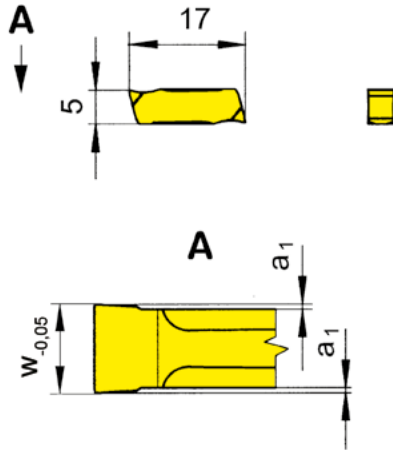
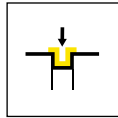
Max. depth of groove can be reached only with width of cut ≥ .043"

Smaller inserts have a limited depth of groove t_{max} = .039" and deeper depths are dependent on the Ø of workpiece.

Dimensions in inch



P	●	-	●	-	-	●
M	●	-	-	-	-	-
K	-	-	-	-	-	●
N	-	●	-	-	-	-
S	●	-	-	-	-	-
H	-	-	-	-	-	-



Coating grades

▲ In stock

Δ 2 weeks

Part number	w	Nw	a ₁	HIS		K10	P20	TN32
217.0050.00	0.57	0.5	0.06	21701		▲	▲	▲
217.0060.00	0.67	0.6	0.06	21701		▲	▲	▲
217.0070.00	0.77	0.7	0.06	21701		▲	▲	▲
217.0080.00	0.87	0.8	0.06	21701		▲	▲	▲
217.0090.00	0.97	0.9	0.06	21701		▲	▲	▲
217.0100.00	1.07	1	0.06	21701		▲	▲	▲
217.0110.00	1.24	1.1	0.1	21701		▲	▲	▲
217.0130.00	1.44	1.3	0.1	21701		▲	▲	▲
217.0160.00	1.74	1.6	0.1	21701		▲	▲	▲
217.0185.00	1.99	1.85	0.1	21702		▲	▲	▲
217.0215.00	2.29	2.15	0.1	21702		▲	▲	▲
217.0265.00	2.79	2.65	0.1	21702		▲	▲	▲
217.0315.00	3.29	3.15	0.1	21703		▲	▲	▲
217.0415.00	4.29	4.15	0.1	21704		▲	▲	▲
217.0515.00	5.29	5.15	0.1	21704		▲	▲	▲

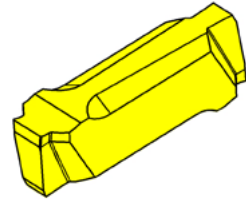
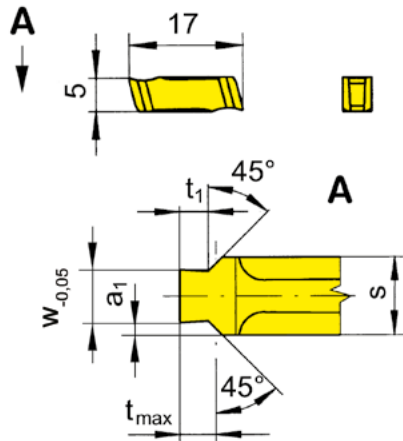
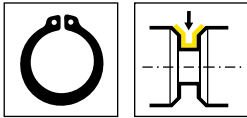
Max. depth of groove can be reached only with width of cut ≥ 1,1 mmSmaller inserts have a limited depth of groove t_{max} = .039" and deeper depths are depending on Ø of work-piece.

w > 1,1 mm for Boring bar

Widths for circlip grooves DIN 471/472

Dimensions in mm

P	●	●	●
M	●	-	-
K	-	-	●
N	-	-	-
S	●	-	-
H	-	-	-



Coating grades

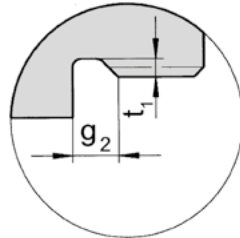
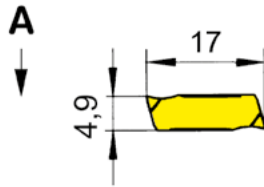
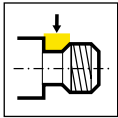
▲ In stock

Δ 2 weeks

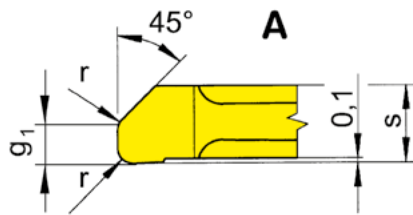
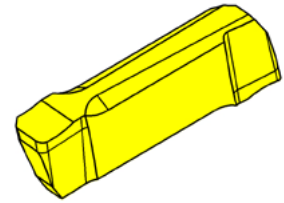
F

Part number	w	Nw	t _{max}	a ₁	s	t ₁	HIS	TN32
217.1306.25	1.44	1.3	0.55	0.54	2.5	0.45	21702	▲
217.1607.33	1.74	1.6	0.7	0.79	3.3	0.6	21703	▲
217.1609.33	1.74	1.6	1	0.79	3.3	0.85	21703	▲
217.1812.33	1.99	1.85	1.25	0.67	3.3	1.1	21703	▲
217.2115.43	2.29	2.15	1.5	1.02	4.3	1.35	21704	▲
217.2616.43	2.79	2.65	1.5	0.77	4.3	1.35	21704	▲
217.2617.43	2.79	2.65	1.75	0.77	4.3	1.6	21704	▲
217.3118.53	3.29	3.15	1.75	1.02	5.3	1.6	21704	▲
217.4120.53	4.29	4.15	2	0.52	5.3	1.85	21704	▲
Widths for circlip grooves DIN 471/472								P ●
								M -
								K ●
								N -
								S -
								H -

Dimensions in mm



Nutform
shape of thread relief



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	r	t ₁	s	g ₁	g ₂	HIS	P20
R217.1050.17	0.5	0.2	0.35	1.7	1.25	1.6	21701	Δ
R217.1060.27	0.6	0.4	0.55	2.7	1.5	2.05	21702	Δ
R217.1070.27	0.7	0.4	0.6	2.7	1.75	2.35	21702	Δ
R217.1080.27	0.8	0.4	0.55	2.7	2	2.55	21702	Δ
R217.1100.37	1	0.6	0.9	3.7	2.5	3.4	21703	▲
R217.1150.53	1.5	0.8	1.2	5.3	3.8	5	21704	Δ
L217.1050.17	0.5	0.2	0.35	1.7	1.25	1.6	21701	Δ
L217.1060.27	0.6	0.4	0.55	2.7	1.5	2.05	21702	Δ
L217.1070.27	0.7	0.4	0.6	2.7	1.75	2.35	21702	Δ
L217.1080.27	0.8	0.4	0.55	2.7	2	2.55	21702	Δ
L217.1150.53	1.5	0.8	1.2	5.3	3.8	5	21704	Δ

External machining:

Use right hand inserts in right hand toolholders and left hand inserts in left hand toolholders

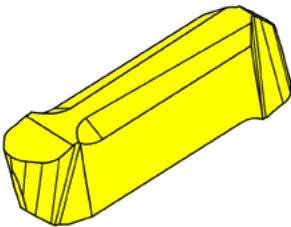
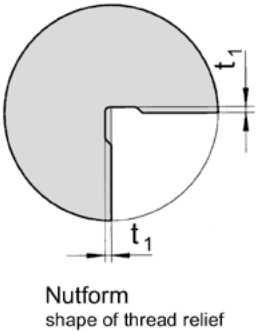
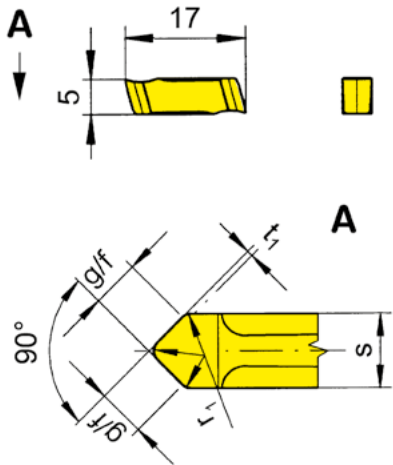
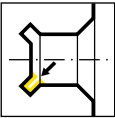
Internal machining:

Use right hand inserts in left hand toolholders and left hand inserts in right hand toolholders

P	●
M	-
K	-
N	-
S	-
H	-

Thread relief DIN 76 form B

Dimensions in mm

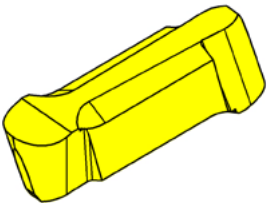
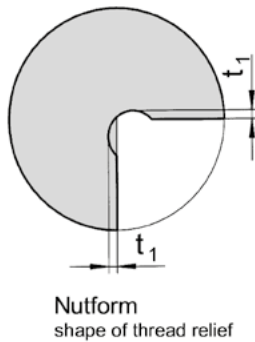
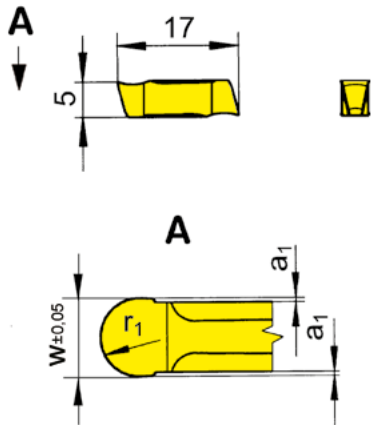
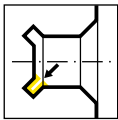


Coating grades

▲ In stock Δ 2 weeks

Part number	r ₁	D _{min}	t ₁	s	g/f	HIS		P20	TN32
217.0602.24	0.6	20	0.2	2.4	1.7	21702	▲	▲	
217.0603.33	0.6	23	0.3	3.3	2.3	21703	▲		
217.1002.30	1	22	0.2	3	2.1	21703	Δ		
217.1603.50	1.6	27	0.3	5	3.6	21704	Δ		
Corner reliefs similar to DIN 509 form F							P	●	●
Dimensions in mm							M	-	-
							K	-	●
							N	-	-
							S	-	-
							H	-	-

F

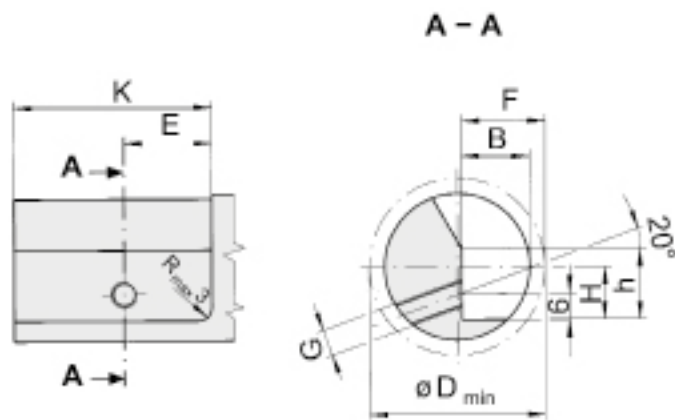


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r ₁	a ₁	D _{min}	t ₁	HIS		K10	P20	TN35
217.0010.20	2	1	0.1	20	0.75	21702		▲	▲	▲
217.0015.30	3	1.5	0.1	20	1	21703		▲	▲	▲
217.0020.40	4	2	0.1	20	1.25	21704			▲	▲
217.0025.50	5	2.5	0.1	20	1.5	21704		▲	▲	
Dimensions in mm							P	●	●	●
							M	●	-	-
							K	-	-	●
							N	-	-	-
							S	●	-	-
							H	-	-	-



Cartridge	F	G	H	K	E	B	h	D _{min}	Fastening screw
232.1212...	19	M6	12	45	20	15.50	16	40	6.20.232

Dimensions in mm

F

Notes

F



G

SYSTEM 224

INTERNAL AND EXTERNAL GROOVING, SIDE TURNING, THREADING AND FACE GROOVING

.079"-.236", 2-6mm width

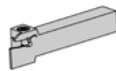
System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

G

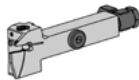
System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS

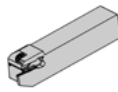
Square Shank - Inch



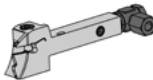
Page 179-182,184,185
Groove, Turn, Part Off
Inch Shank



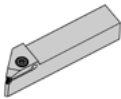
Page 183
Groove, Turn, Part Off
Inch Shank



Page 186-189, 198-203
Groove, Turn, Part Off
Metric Shank



Page 190-197, 201,202
Groove, Turn, Part Off
Metric Shank

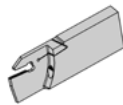


Page 204
Corner Cutting
Metric Shank

Blade - Metric



Page 205-206
Part Off and Grooving
Metric Blade

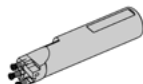


Page 207-211
Part Off and Grooving
Metric Blade

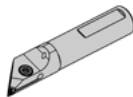
Round Shank - Inch



Page 212-214
Grooving and Turning
Inch Shank



Page 220
Grooving and Turning
Inch Shank

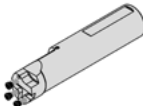


Page 223
Corner Cutting
Inch Shank

Round Shank - Metric



Page 215
Grooving and Turning
Metric Shank



Page 221
Grooving and Turning
Metric Shank



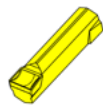
Page 222
Grooving and Turning
Cassette



Page 224-225
Corner Cutting
Metric Shank

Cutting Data and Technical Instructions - Chapter V / Page 706

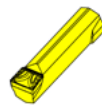
Grooving, Turning, Parting Off



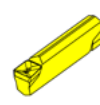
Page 226
.3 Chipbreaker
Groove, Turn, Part Off



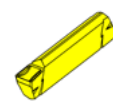
Page 227
.5 Chipbreaker
Grooving and Turning



Page 228
.A Chipbreaker
Grooving and Turning



Page 229
.D Chipbreaker
Grooving and Turning



Page 230
.3V Chipbreaker
Grooving and Part Off



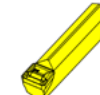
Page 231
.3V Chipbreaker
Grooving and Part Off



Page 232
.EN Chipbreaker
Grooving and Part Off



Page 233
.FY Chipbreaker
Grooving and Part Off



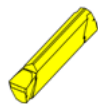
Page 234
.H Chipbreaker
Grooving



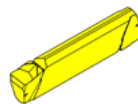
Page 235
.L Chipbreaker
Grooving and Turning



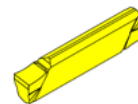
Page 236
.L Chipbreaker
Grooving and Turning



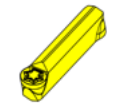
Page 237
.WA Chipbreaker
Grooving and Part Off



Page 238
.WT Chipbreaker
Groove, Turn, Part Off



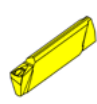
Page 239
.10 Geometry
Grooving and Part Off



Page 240
.K Chipbreaker
Grooving and Turning



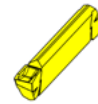
Page 241
.KF Chipbreaker
Grooving and Turning



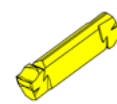
Page 242
.C Chipbreaker
Parting Off



Page 243
.C Chipbreaker
Parting Off



Page 244
.E Chipbreaker
Grooving and Part Off



Page 245
.F Chipbreaker
Grooving and Part Off



Page 246
.PT Chipbreaker
Side Turning

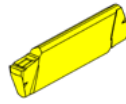
Finishing



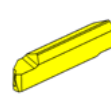
Page 247
.ZG Chipbreaker
Groove, Turn, Finish



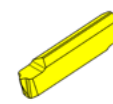
Page 248
.NC Geometry
Finishing



Page 249
.FB Chipbreaker
Finishing

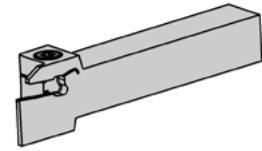
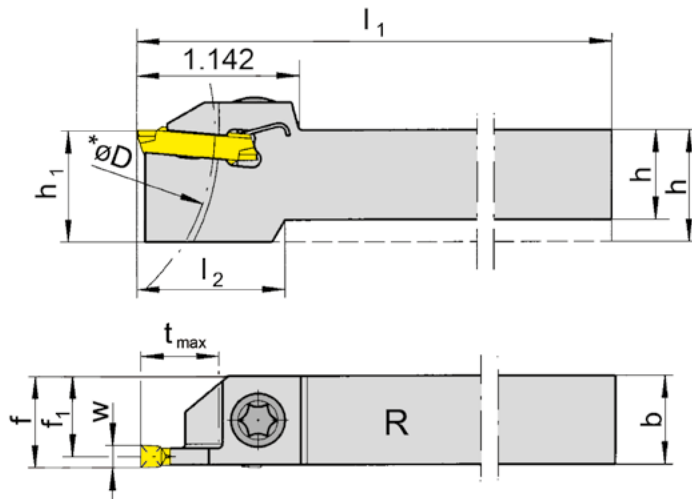
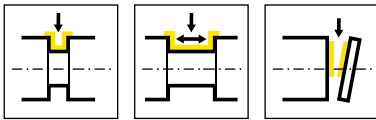


Page 250
Full Profile
60° Threading



Page 251
Full Profile
55° BSW Threading

Threading



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RHU224.0625.01	.625	.625	5.118	.984	.787	.597	f ₁ +w/2	.551	3.150	224018
RHU224.0750.01	.750	.750	5.118	-	.750	.722	f ₁ +w/2	.551	3.150	224018
RHU224.1000.01	1.000	1.000	6.004	-	1.000	.972	f ₁ +w/2	.551	3.150	224018
RHU224.0625.02	.625	.625	5.118	.984	.787	.589	f ₁ +w/2	.551	3.150	224028
RHU224.0750.02	.750	.750	5.118	-	.750	.715	f ₁ +w/2	.551	3.150	224028
RHU224.1000.02	1.000	1.000	6.004	-	1.000	.965	f ₁ +w/2	.551	3.150	224028
RHU224.0625.03	.625	.625	4.921	.984	.787	.581	f ₁ +w/2	.551	3.150	224038
RHU224.0750.03	.750	.750	5.118	-	.750	.707	f ₁ +w/2	.551	3.150	224038
RHU224.1000.03	1.000	1.000	6.004	-	1.000	.957	f ₁ +w/2	.551	3.150	224038
LHU224.0625.01	.625	.625	5.118	.984	.787	.597	f ₁ +w/2	.551	3.150	224018
LHU224.0750.01	.750	.750	5.118	-	.750	.722	f ₁ +w/2	.551	3.150	224018
LHU224.1000.01	1.000	1.000	6.004	-	1.000	.972	f ₁ +w/2	.551	3.150	224018
LHU224.0625.02	.625	.625	5.118	.984	.787	.589	f ₁ +w/2	.551	3.150	224028
LHU224.0750.02	.750	.750	5.118	-	.750	.715	f ₁ +w/2	.551	3.150	224028
LHU224.1000.02	1.000	1.000	6.004	-	1.000	.965	f ₁ +w/2	.551	3.150	224028
LHU224.0625.03	.625	.625	4.921	.984	.787	.581	f ₁ +w/2	.551	3.150	224038
LHU224.0750.03	.750	.750	5.118	-	.750	.707	f ₁ +w/2	.551	3.150	224038
LHU224.1000.03	1.000	1.000	6.004	-	1.000	.957	f ₁ +w/2	.551	3.150	224038

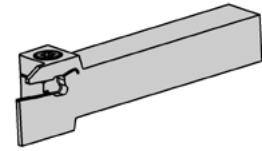
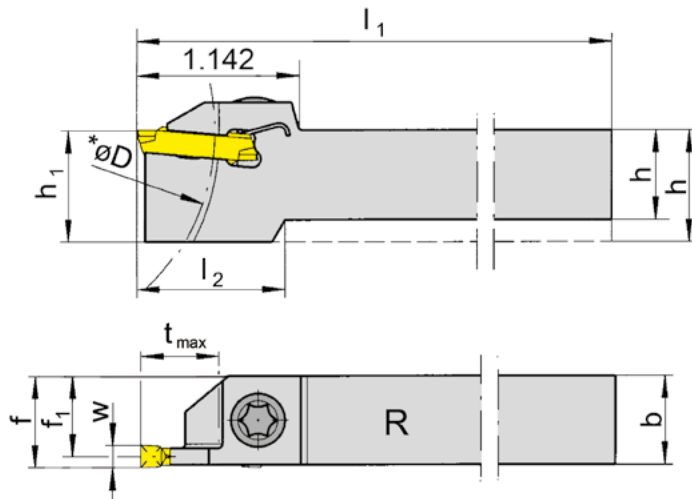
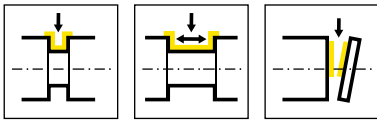
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
RHU224.0625.04	.625	.625	5.118	.984	.787	.568	$f_1 + w/2$	.551	3.150	224048
RHU224.0750.04	.750	.750	5.118	-	.750	.693	$f_1 + w/2$	.551	3.150	224048
RHU224.1000.04	1.000	1.000	6.004	-	1.000	.943	$f_1 + w/2$	.551	3.150	224048
RHU224.0625.05	.625	.625	5.118	.984	.787	.552	$f_1 + w/2$	.551	3.150	224058
RHU224.0750.05	.750	.750	5.118	-	.750	.677	$f_1 + w/2$	.551	3.150	224058
RHU224.1000.05	1.000	1.000	6.004	-	1.000	.927	$f_1 + w/2$	.551	3.150	224058
RHU224.0750.06	.750	.750	5.118	-	.750	.661	$f_1 + w/2$	.551	3.150	224068
RHU224.1000.06	1.000	1.000	6.004	-	1.000	.911	$f_1 + w/2$	.551	3.150	224068
LHU224.0625.04	.625	.625	5.118	.984	.787	.568	$f_1 + w/2$	.551	3.150	224048
LHU224.0750.04	.750	.750	5.118	-	.750	.693	$f_1 + w/2$	.551	3.150	224048
LHU224.1000.04	1.000	1.000	6.004	-	1.000	.943	$f_1 + w/2$	.551	3.150	224048
LHU224.0750.05	.750	.750	5.118	-	.750	.677	$f_1 + w/2$	.551	3.150	224058
LHU224.1000.05	1.000	1.000	6.004	-	1.000	.927	$f_1 + w/2$	.551	3.150	224058
LHU224.0750.06	.750	.750	5.118	-	.750	.661	$f_1 + w/2$	.551	3.150	224068
LHU224.1000.06	1.000	1.000	6.004	-	1.000	.911	$f_1 + w/2$	.551	3.150	224068

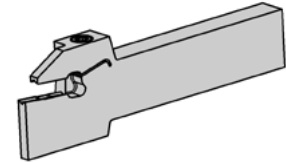
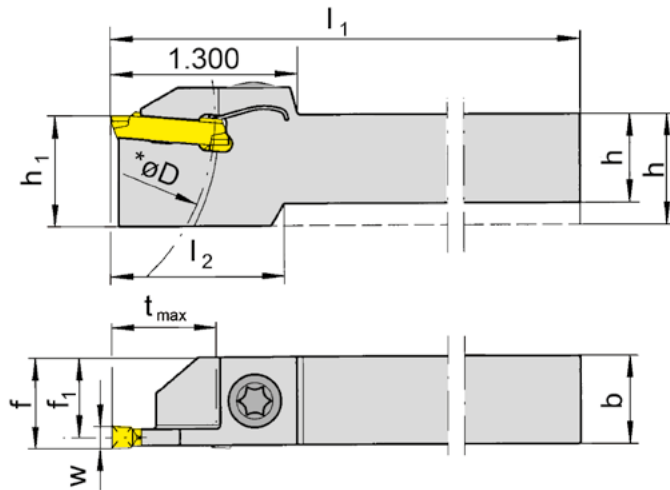
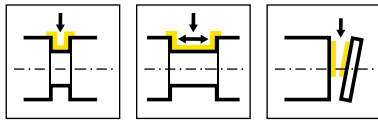
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RHU224.0625.21	.625	.625	5.118	1.299	.787	.597	f ₁ +w/2	.709	3.150	224018
RHU224.0750.21	.750	.750	4.921	1.299	.750	.722	f ₁ +w/2	.709	3.150	224018
RHU224.1000.21	1.000	1.000	6.004	1.299	1.000	.972	f ₁ +w/2	.709	3.150	224018
RHU224.0625.22	.625	.625	5.118	1.299	.787	.589	f ₁ +w/2	.709	3.150	224028
RHU224.0750.22	.750	.750	4.921	1.299	.750	.715	f ₁ +w/2	.709	3.150	224028
RHU224.1000.22	1.000	1.000	6.004	1.299	1.000	.965	f ₁ +w/2	.709	3.150	224028
RHU224.0625.23	.625	.625	4.921	1.299	.787	.581	f ₁ +w/2	.709	3.150	224038
RHU224.0750.23	.750	.750	4.921	1.299	.750	.707	f ₁ +w/2	.709	3.150	224038
RHU224.1000.23	1.000	1.000	6.004	1.299	1.000	.957	f ₁ +w/2	.709	3.150	224038
LHU224.0625.21	.625	.625	5.118	1.299	.787	.597	f ₁ +w/2	.709	3.150	224018
LHU224.0750.21	.750	.750	4.921	1.299	.750	.722	f ₁ +w/2	.709	3.150	224018
LHU224.1000.21	1.000	1.000	6.004	1.299	1.000	.972	f ₁ +w/2	.709	3.150	224018
LHU224.0625.22	.625	.625	5.118	1.299	.787	.589	f ₁ +w/2	.709	3.150	224028
LHU224.0750.22	.750	.750	4.921	1.299	.750	.715	f ₁ +w/2	.709	3.150	224028
LHU224.1000.22	1.000	1.000	6.004	1.299	1.000	.965	f ₁ +w/2	.709	3.150	224028
LHU224.0625.23	.625	.625	4.921	1.299	.787	.581	f ₁ +w/2	.709	3.150	224038
LHU224.0750.23	.750	.750	4.921	1.299	.750	.707	f ₁ +w/2	.709	3.150	224038
LHU224.1000.23	1.000	1.000	6.004	1.299	1.000	.957	f ₁ +w/2	.709	3.150	224038

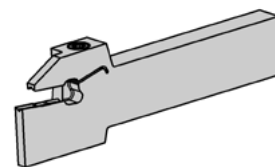
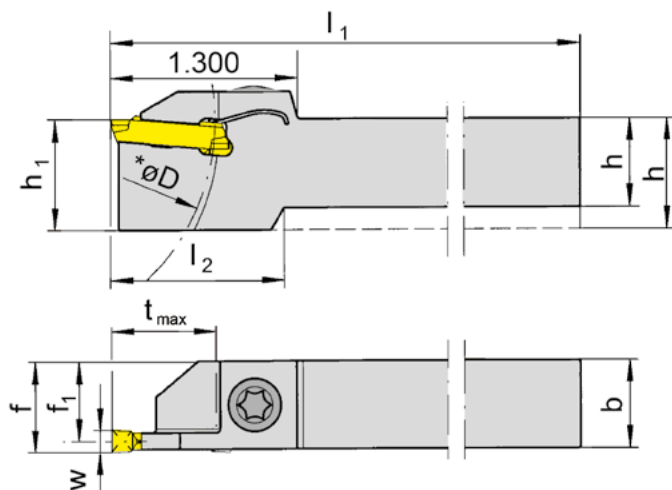
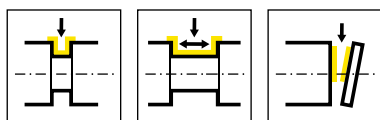
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RHU224.0625.24	.625	.625	5.118	1.299	.787	.568	f ₁ +w/2	.709	3.150	224048
RHU224.0750.24	.750	.750	4.921	1.299	.750	.693	f ₁ +w/2	.709	3.150	224048
RHU224.1000.24	1.000	1.000	6.004	1.299	1.000	.943	f ₁ +w/2	.709	3.150	224048
RHU224.0625.25	.625	.625	5.000	1.299	.787	.552	f ₁ +w/2	.709	3.150	224058
RHU224.0750.25	.750	.750	4.921	1.299	.750	.677	f ₁ +w/2	.709	3.150	224058
RHU224.1000.25	1.000	1.000	6.004	1.299	1.000	.927	f ₁ +w/2	.709	3.150	224058
RHU224.0625.26	.625	.625	5.118	1.299	.787	.536	f ₁ +w/2	.709	3.150	224068
RHU224.0750.26	.750	.750	5.118	1.299	.750	.661	f ₁ +w/2	.709	3.150	224068
RHU224.1000.26	1.000	1.000	6.004	1.299	1.000	.911	f ₁ +w/2	.709	3.150	224068
LHU224.0625.24	.625	.625	5.118	1.299	.787	.568	f ₁ +w/2	.709	3.150	224048
LHU224.0750.24	.750	.750	4.921	1.299	.750	.693	f ₁ +w/2	.709	3.150	224048
LHU224.1000.24	1.000	1.000	6.004	1.299	1.000	.943	f ₁ +w/2	.709	3.150	224048
LHU224.0625.25	.625	.625	5.000	1.299	.787	.552	f ₁ +w/2	.709	3.150	224058
LHU224.0750.25	.750	.750	4.921	1.299	.750	.677	f ₁ +w/2	.709	3.150	224058
LHU224.1000.25	1.000	1.000	6.004	1.299	1.000	.927	f ₁ +w/2	.709	3.150	224058
LHU224.0625.26	.625	.625	5.118	1.299	.787	.536	f ₁ +w/2	.709	3.150	224068
LHU224.0750.26	.750	.750	4.921	1.299	.750	.661	f ₁ +w/2	.709	3.150	224068
LHU224.1000.26	1.000	1.000	6.004	1.299	1.000	.911	f ₁ +w/2	.709	3.150	224068

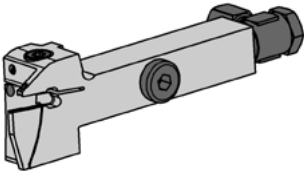
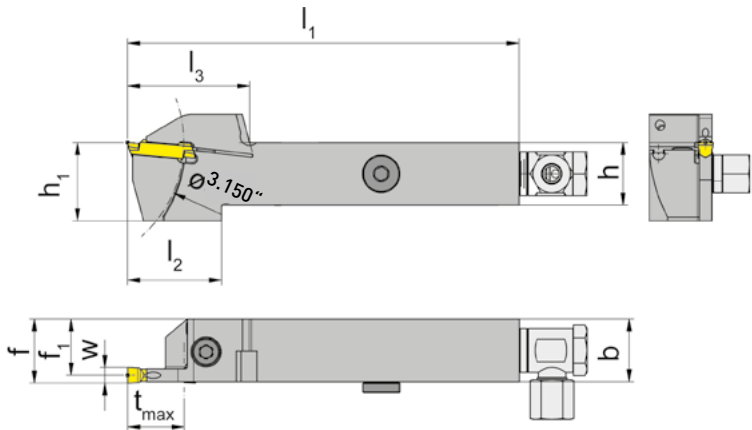
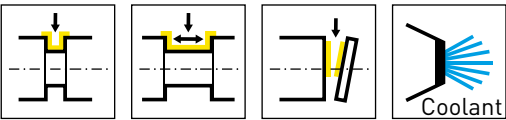
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

L = left hand version

Part number	b	l ₁	l ₂	l ₃	h ₁	f ₁	t _{max}	HWS
RHU224.1000.6.03.IK	1.000	6.004	1.024	1.378	1.197	.951	.551	224039
LHU224.1000.6.03.IK	1.000	6.004	1.024	1.378	1.197	.951	.551	224039

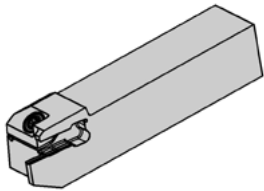
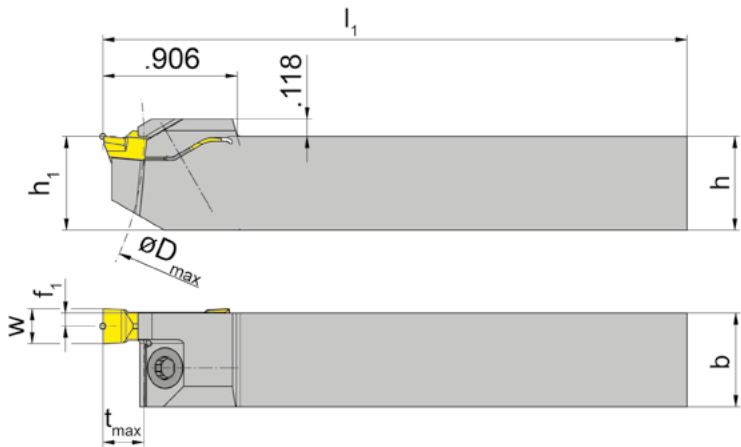
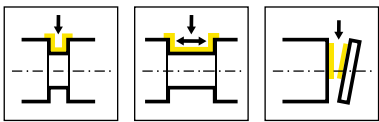
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU224.1000.6.03.IK	004.00.61	6.23T25P	T25PQ	004.00.21	6 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	t _{max}	D _{max}	HWS
RHU224.0500.61	.500	.500	4.000	.500	.028	.276	3.937	224018
RHU224.0500.63	.500	.500	4.000	.500	.043	.276	3.937	224038

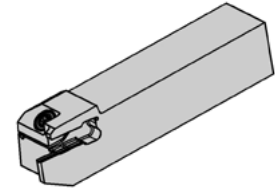
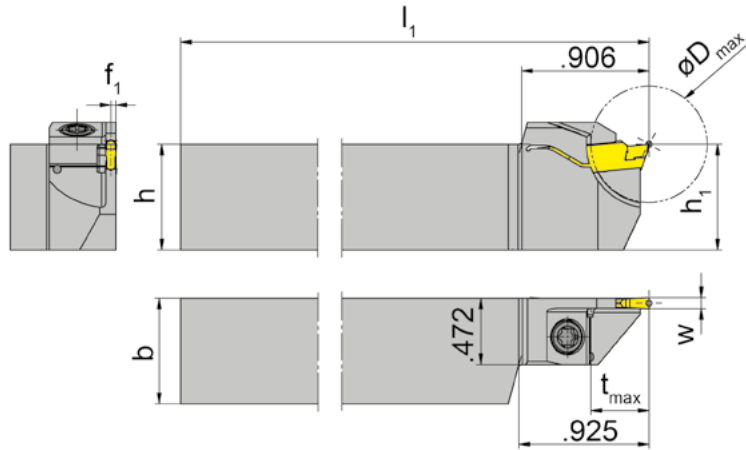
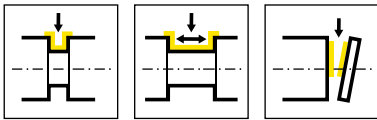
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RHU224...	4.12T15EP	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
RHU224.0500.20.61	.500	.500	4.000	.906	.500	.028	$f_1+w/2$	.413	.827	224018
RHU224.0625.20.61	.625	.625	3.937	.906	.625	.028	$f_1+w/2$	.413	.827	224018
RHU224.0750.20.61	.750	.750	5.118	.906	.750	.028	$f_1+w/2$	.413	.827	224018
RHU224.0500.20.62	.500	.500	4.000	.906	.500	.035	$f_1+w/2$	.413	.827	224028
RHU224.0625.20.62	.625	.625	3.937	.906	.625	.035	$f_1+w/2$	.413	.827	224028
RHU224.0750.20.62	.750	.750	5.118	.906	.750	.035	$f_1+w/2$	.413	.827	224028
RHU224.0500.20.63	.500	.500	4.000	.906	.500	.043	$f_1+w/2$	.413	.827	224038
RHU224.0625.20.63	.625	.625	3.937	.906	.625	.043	$f_1+w/2$	.413	.827	224038
RHU224.0750.20.63	.750	.750	5.118	.906	.750	.043	$f_1+w/2$	.413	.827	224038
LHU224.0500.20.61	.500	.500	4.000	.906	.500	.028	$f_1+w/2$	.413	.827	224018
LHU224.0625.20.61	.625	.625	3.937	.906	.625	.028	$f_1+w/2$	.413	.827	224018
LHU224.0750.20.61	.750	.750	5.118	.906	.750	.028	$f_1+w/2$	.413	.827	224018
LHU224.0500.20.62	.500	.500	4.000	.906	.500	.035	$f_1+w/2$	.413	.827	224028
LHU224.0625.20.62	.625	.625	3.937	.906	.625	.035	$f_1+w/2$	.413	.827	224028
LHU224.0500.20.63	.500	.500	4.000	.906	.500	.043	$f_1+w/2$	.413	.827	224038
LHU224.0625.20.63	.625	.625	3.937	.906	.625	.043	$f_1+w/2$	.413	.827	224038
LHU224.0750.20.63	.750	.750	5.118	.906	.750	.043	$f_1+w/2$	.413	.827	224038

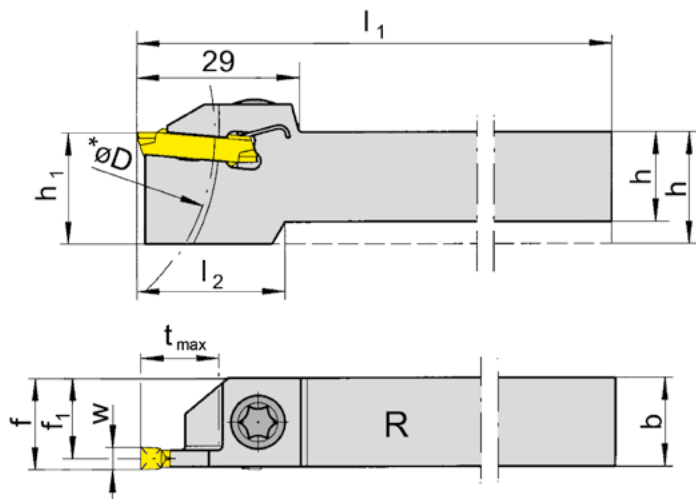
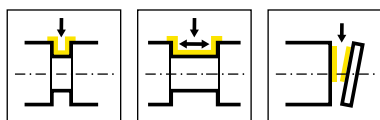
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU224...	4.12T15EP	T15PQ	5 Nm



R = right hand version shown

L = left hand version

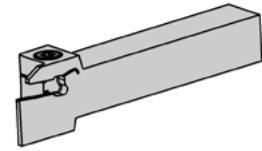
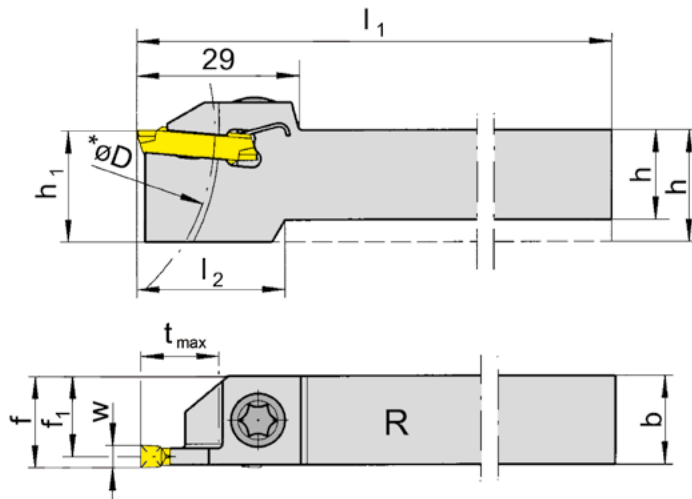
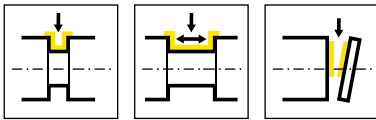
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.01	16	16	125	25	20	15.3	f ₁ +w/2	14	80	2	224018
RH224.2020.01	20	20	125	-	20	19.3	f ₁ +w/2	14	80	2	224018
RH224.2525.01	25	25	150	-	25	24.3	f ₁ +w/2	14	80	2	224018
RH224.1616.02	16	16	125	25	20	15.1	f ₁ +w/2	14	80	2.5	224028
RH224.2020.02	20	20	125	-	20	19.1	f ₁ +w/2	14	80	2.5	224028
RH224.2525.02	25	25	150	-	25	24.1	f ₁ +w/2	14	80	2.5	224028
RH224.1616.03	16	16	125	25	20	14.9	f ₁ +w/2	14	80	3	224038
RH224.2020.03	20	20	125	-	20	18.9	f ₁ +w/2	14	80	3	224038
RH224.2525.03	25	25	150	-	25	23.9	f ₁ +w/2	14	80	3	224038
LH224.1616.01	16	16	125	25	20	15.3	f ₁ +w/2	14	80	2	224018
LH224.2020.01	20	20	125	-	20	19.3	f ₁ +w/2	14	80	2	224018
LH224.2525.01	25	25	150	-	25	24.3	f ₁ +w/2	14	80	2	224018
LH224.1616.02	16	16	125	25	20	15.1	f ₁ +w/2	14	80	2.5	224028
LH224.2020.02	20	20	125	-	20	19.1	f ₁ +w/2	14	80	2.5	224028
LH224.2525.02	25	25	150	-	25	24.1	f ₁ +w/2	14	80	2.5	224028
LH224.1616.03	16	16	125	25	20	14.9	f ₁ +w/2	14	80	3	224038
LH224.2020.03	20	20	125	-	20	18.9	f ₁ +w/2	14	80	3	224038
LH224.2525.03	25	25	150	-	25	23.9	f ₁ +w/2	14	80	3	224038

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

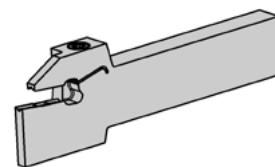
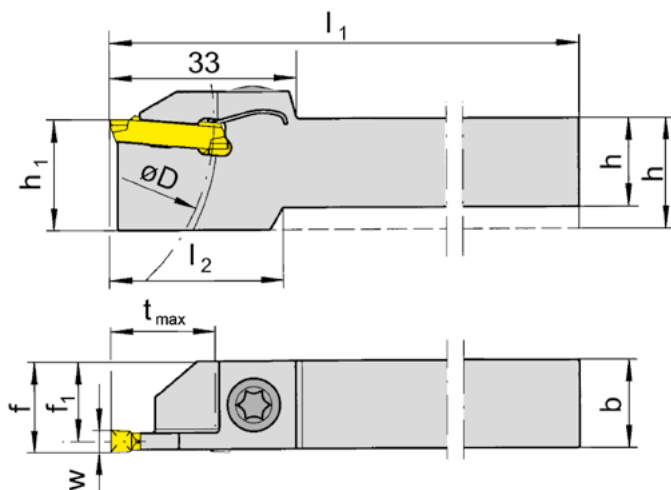
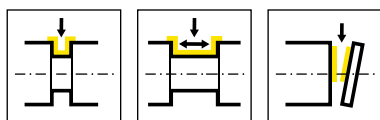
L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.04	16	16	125	25	20	14.55	f ₁ +w/2	14	80	4	224048
RH224.2020.04	20	20	125	-	20	18.55	f ₁ +w/2	14	80	4	224048
RH224.2525.04	25	25	150	-	25	23.55	f ₁ +w/2	14	80	4	224048
RH224.1616.05	16	16	125	-	20	18.15	f ₁ +w/2	14	80	5	224058
RH224.2020.05	20	20	125	-	20	18.15	f ₁ +w/2	14	80	5	224058
RH224.2525.05	25	25	150	-	25	23.15	f ₁ +w/2	14	80	5	224058
RH224.2020.06	20	20	125	-	20	17.75	f ₁ +w/2	14	80	6	224068
RH224.2525.06	25	25	150	-	25	22.75	f ₁ +w/2	14	80	6	224068
LH224.1616.04	16	16	125	25	20	14.55	f ₁ +w/2	14	80	4	224048
LH224.2020.04	20	20	125	-	20	18.55	f ₁ +w/2	14	80	4	224048
LH224.2525.04	25	25	150	-	25	23.55	f ₁ +w/2	14	80	4	224048
LH224.1616.05	16	16	125	-	20	18.15	f ₁ +w/2	14	80	5	224058
LH224.2020.05	20	20	125	-	20	18.15	f ₁ +w/2	14	80	5	224058
LH224.2525.05	25	25	150	-	25	23.15	f ₁ +w/2	14	80	5	224058
LH224.2020.06	20	20	125	-	20	17.75	f ₁ +w/2	14	80	6	224068
LH224.2525.06	25	25	150	-	25	22.75	f ₁ +w/2	14	80	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

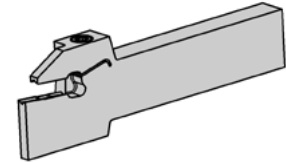
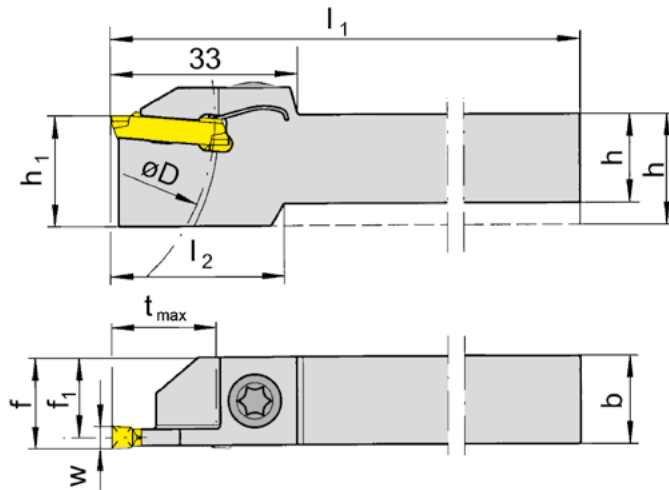
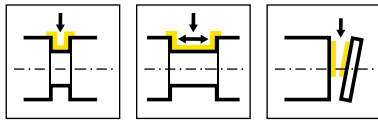
L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1212.21	12	12	125	33	20	11.3	f ₁ +w/2	18	80	2	224018
RH224.1616.21	16	16	125	30	20	15.3	f ₁ +w/2	18	80	2	224018
RH224.2020.21	20	20	125	-	20	19.3	f ₁ +w/2	18	80	2	224018
RH224.2525.21	25	25	150	-	25	24.3	f ₁ +w/2	18	80	2	224018
RH224.1212.22	12	12	125	33	20	11.1	f ₁ +w/2	18	80	2.5	224028
RH224.1616.22	16	16	125	30	20	15.1	f ₁ +w/2	18	80	2.5	224028
RH224.2020.22	20	20	125	-	20	19.1	f ₁ +w/2	18	80	2.5	224028
RH224.2525.22	25	25	150	-	25	24.1	f ₁ +w/2	18	80	2.5	224028
RH224.1212.23	12	12	125	33	20	10.9	f ₁ +w/2	18	80	3	224038
RH224.1608.23	16	8	100	30	20	6.9	f ₁ +w/2	18	80	3	224038
RH224.1616.23	16	16	125	30	20	14.9	f ₁ +w/2	18	80	3	224038
RH224.2020.23	20	20	125	-	20	18.9	f ₁ +w/2	18	80	3	224038
RH224.2525.23	25	25	150	-	25	23.9	f ₁ +w/2	18	80	3	224038
LH224.1212.21	12	12	125	33	20	11.3	f ₁ +w/2	18	80	2	224018
LH224.1616.21	16	16	125	30	20	15.3	f ₁ +w/2	18	80	2	224018
LH224.2020.21	20	20	125	-	20	19.3	f ₁ +w/2	18	80	2	224018
LH224.2525.21	25	25	150	-	25	24.3	f ₁ +w/2	18	80	2	224018
LH224.1212.22	12	12	125	33	20	11.1	f ₁ +w/2	18	80	2.5	224028
LH224.1616.22	16	16	125	30	20	15.1	f ₁ +w/2	18	80	2.5	224028
LH224.2020.22	20	20	125	-	20	19.1	f ₁ +w/2	18	80	2.5	224028
LH224.2525.22	25	25	150	-	25	24.1	f ₁ +w/2	18	80	2.5	224028
LH224.1212.23	12	12	125	33	20	10.9	f ₁ +w/2	18	80	3	224038
LH224.1608.23	16	8	100	30	20	6.9	f ₁ +w/2	18	80	3	224038
LH224.1616.23	16	16	125	30	20	14.9	f ₁ +w/2	18	80	3	224038
LH224.2020.23	20	20	125	-	20	18.9	f ₁ +w/2	18	80	3	224038
LH224.2525.23	25	25	150	-	25	23.9	f ₁ +w/2	18	80	3	224038

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	6.23T25P	T25PQ	6 Nm
R/LH224.1608...	4.15T15P	T15PQ	5 Nm



R = right hand version shown

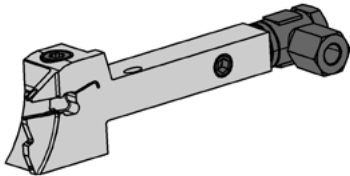
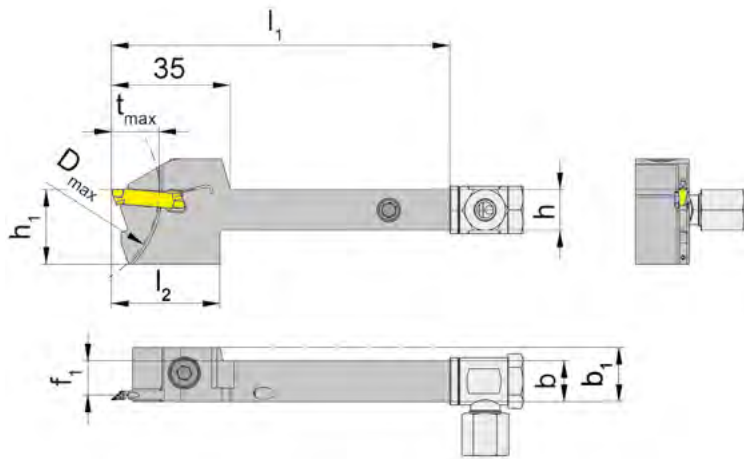
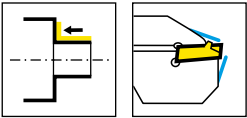
L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.24	16	16	125	30	20	14.55	f ₁ +w/2	18	80	4	224048
RH224.2020.24	20	20	125	-	20	18.55	f ₁ +w/2	18	80	4	224048
RH224.2525.24	25	25	150	-	25	23.5	f ₁ +w/2	18	80	4	224048
RH224.1616.25	16	16	125	30	20	14.15	f ₁ +w/2	18	80	5	224058
RH224.2020.25	20	20	125	-	20	18.15	f ₁ +w/2	18	80	5	224058
RH224.2525.25	25	25	150	-	25	23.15	f ₁ +w/2	18	80	5	224058
RH224.1616.26	16	16	125	30	20	13.75	f ₁ +w/2	18	80	6	224068
RH224.2020.26	20	20	125	-	20	17.75	f ₁ +w/2	18	80	6	224068
RH224.2525.26	25	25	150	-	25	22.75	f ₁ +w/2	18	80	6	224068
LH224.1608.24	16	8	100	-	16	6.55	f ₁ +w/2	18	80	4	224048
LH224.1616.24	16	16	125	30	20	14.55	f ₁ +w/2	18	80	4	224048
LH224.2020.24	20	20	125	-	20	18.55	f ₁ +w/2	18	80	4	224048
LH224.2525.24	25	25	150	-	25	23.55	f ₁ +w/2	18	80	4	224048
LH224.1616.25	16	16	125	30	20	14.15	f ₁ +w/2	18	80	5	224058
LH224.2020.25	20	20	125	-	20	18.15	f ₁ +w/2	18	80	5	224058
LH224.2525.25	25	25	150	-	25	23.15	f ₁ +w/2	18	80	5	224058
LH224.1616.26	16	16	125	30	20	13.75	f ₁ +w/2	18	80	6	224068
LH224.2020.26	20	20	125	-	20	17.75	f ₁ +w/2	18	80	6	224068
LH224.2525.26	25	25	150	-	25	22.75	f ₁ +w/2	18	80	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH224.1608...	4.15T15P	T15PQ	5 Nm
R/LH224...	6.23T25P	T25PQ	6 Nm



R = right hand version shown

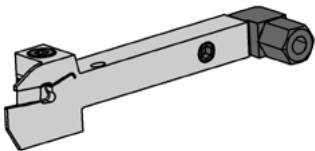
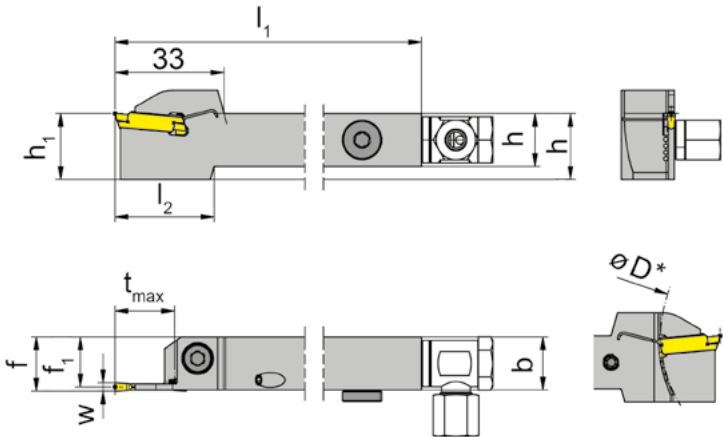
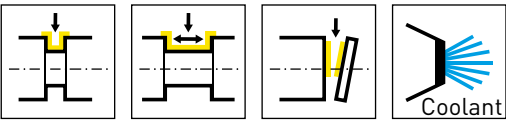
L = left hand version shown

Part number	h	b	l ₁	l ₂	h ₁	b ₁	f ₁	D _{max}	t _{max}	w	HWS
RH224.1212.S.6.03.IK	12	12	100	32	22	16	10.05	60	14	3	224038
RH224.1616.S.6.03.IK	16	16	125	29	25	16	14.05	60	14	3	224038
LH224.1212.S.6.03.IK	12	12	100	32	22	16	10.05	60	14	3	224038
LH224.1616.S.6.03.IK	16	16	125	29	25	16	14.05	60	14	3	224038

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH224.1616.S.6.03.IK	004.00.16	6.23T25P	T25PQ	004.00.26	6 Nm



R = right hand version shown

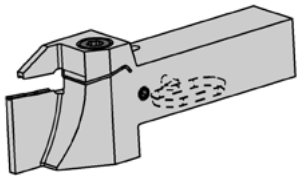
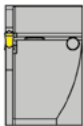
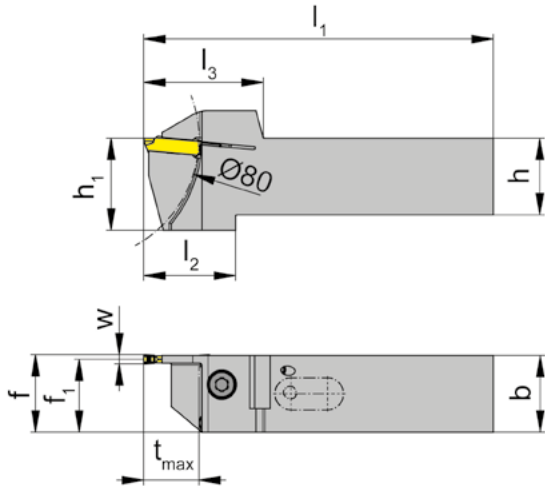
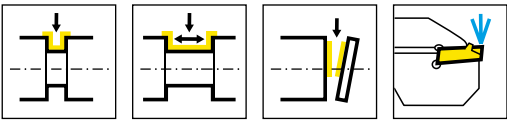
L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1212.21.IK	12	12	125	33	20	11.3	f ₁ +w/2	18	80	2	224018
RH224.1212.23.IK	12	12	125	33	20	10.9	f ₁ +w/2	18	80	3	224038
LH224.1212.21.IK	12	12	125	33	20	11.3	f ₁ +w/2	18	80	2	224018
LH224.1212.23.IK	12	12	125	33	20	10.9	f ₁ +w/2	18	80	3	224038

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	004.00.22	6.23T25P	T25PQ	6 Nm



L = left hand version shown

R = right hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	w	HWS
RH224.1616.3.23.IK	16	16	87	33	39	25	14.75	f ₁ +w/2	18	3	224039
RH224.2020.3.23.IK	20	20	99	30	39	25	18.75	f ₁ +w/2	18	3	224039
RH224.2525.3.23.IK	25	25	114	30	39	30	23.75	f ₁ +w/2	18	3	224039
LH224.2020.3.23.IK	20	20	99	30	39	25	18.75	f ₁ +w/2	18	3	224039
LH224.2525.3.23.IK	25	25	114	30	39	30	23.75	f ₁ +w/2	18	3	224039

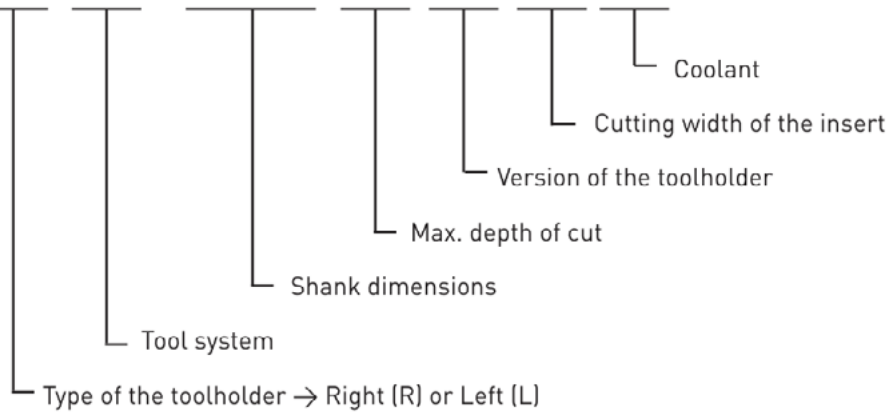
Dimensions in mm

Spare Parts

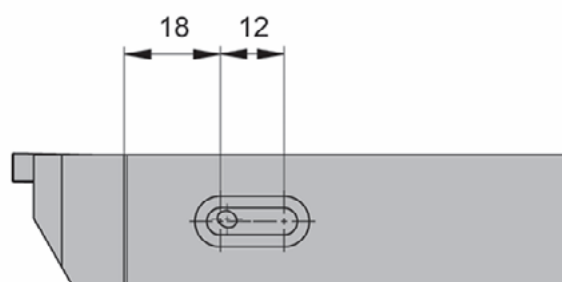
Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	6.23T25P	T25PQ	6 Nm

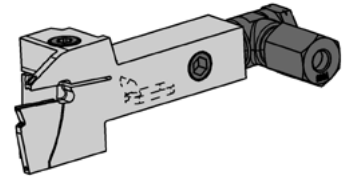
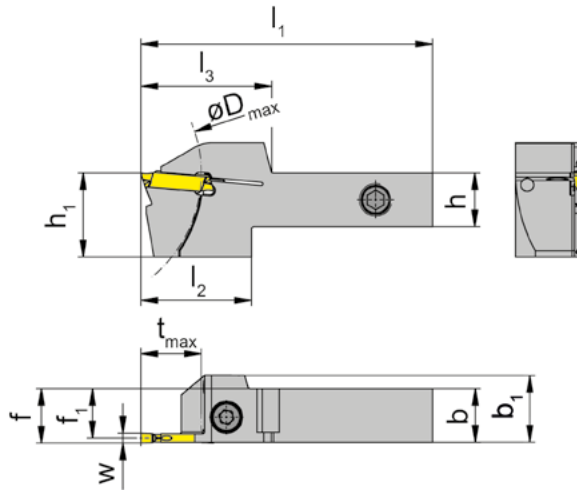
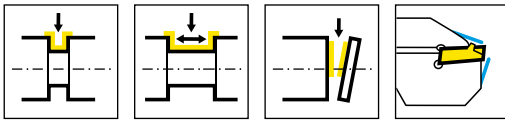
Number code of the toolholder:

RH224.2020.18.0A.05.IK



Position of the coolant transfer



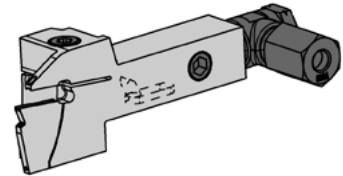
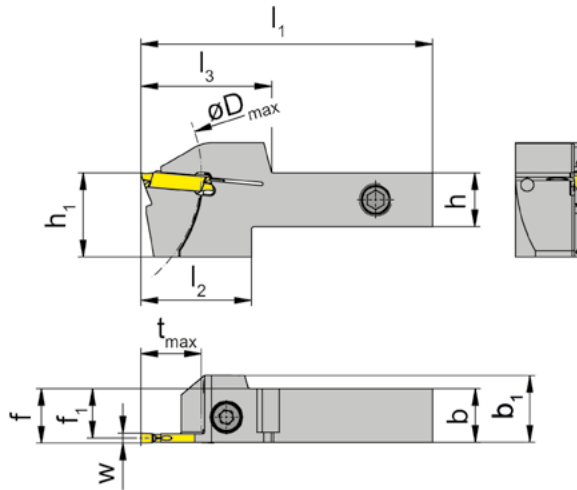
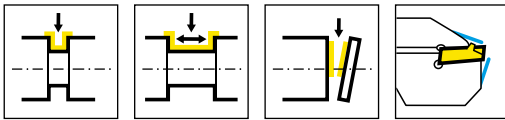


Part number	h	b	l ₁	l ₂	l ₃	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.14.0A.02.IK	16	16	83	29	35	25	20	15.2	f ₁ +w/2	14	80	2	224018
RH224.2020.14.0A.02.IK	20	20	98	29	35	25	-	19.2	f ₁ +w/2	14	80	2	224018
RH224.2525.14.0A.02.IK	25	25	113	29	35	30	-	24.2	f ₁ +w/2	14	80	2	224018
RH224.1616.14.0A.25.IK	16	16	83	29	35	25	20	14.95	f ₁ +w/2	14	80	2.5	224028
RH224.2020.14.0A.25.IK	20	20	98	29	35	25	-	18.95	f ₁ +w/2	14	80	2.5	224028
RH224.2525.14.0A.25.IK	25	25	113	29	35	30	-	23.95	f ₁ +w/2	14	80	2.5	224028
RH224.1616.14.0A.03.IK	16	16	83	29	35	25	20	14.75	f ₁ +w/2	14	80	3	224038
RH224.2020.14.0A.03.IK	20	20	98	29	35	25	-	18.75	f ₁ +w/2	14	80	3	224038
RH224.2525.14.0A.03.IK	25	25	113	29	35	30	-	23.75	f ₁ +w/2	14	80	3	224038
LH224.1616.14.0A.02.IK	16	16	83	29	35	25	20	15.2	f ₁ +w/2	14	80	2	224018
LH224.2020.14.0A.02.IK	20	20	98	29	35	25	-	19.2	f ₁ +w/2	14	80	2	224018
LH224.2525.14.0A.02.IK	25	25	113	29	35	30	-	24.2	f ₁ +w/2	14	80	2	224018
LH224.1616.14.0A.25.IK	16	16	83	29	35	25	20	14.95	f ₁ +w/2	14	80	2.5	224028
LH224.2020.14.0A.25.IK	20	20	98	29	35	25	-	18.95	f ₁ +w/2	14	80	2.5	224028
LH224.2525.14.0A.25.IK	25	25	113	29	35	30	-	23.95	f ₁ +w/2	14	80	2.5	224028
LH224.1616.14.0A.03.IK	16	16	83	29	35	25	20	14.75	f ₁ +w/2	14	80	3	224038
LH224.2020.14.0A.03.IK	20	20	98	29	35	25	-	18.75	f ₁ +w/2	14	80	3	224038
LH224.2525.14.0A.03.IK	25	25	113	29	35	30	-	23.75	f ₁ +w/2	14	80	3	224038

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	004.00.16	6.23T25P	T25PQ	6 Nm

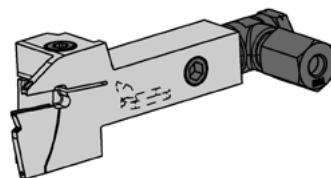
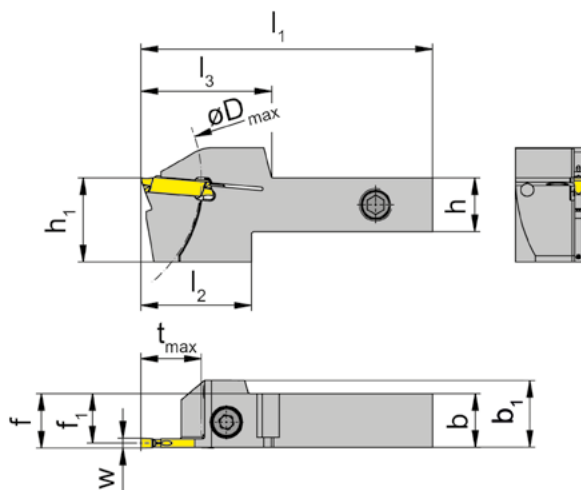
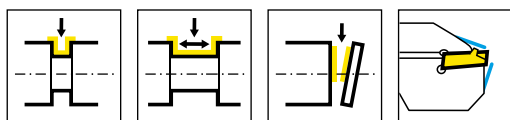


Part number	h	b	l ₁	l ₂	l ₃	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.14.0A.04.IK	16	16	83	29	35	25	20	14.3	f ₁ +w/2	14	80	4	224048
RH224.2020.14.0A.04.IK	20	20	98	29	35	25	-	18.3	f ₁ +w/2	14	80	4	224048
RH224.2525.14.0A.04.IK	25	25	113	29	35	30	-	23.3	f ₁ +w/2	14	80	4	224048
RH224.1616.14.0A.05.IK	16	16	83	29	35	25	20	13.95	f ₁ +w/2	14	80	5	224058
RH224.2020.14.0A.05.IK	20	20	98	29	35	25	-	17.95	f ₁ +w/2	14	80	5	224058
RH224.2525.14.0A.05.IK	25	25	113	29	35	30	-	22.95	f ₁ +w/2	14	80	5	224058
RH224.1616.14.0A.06.IK	16	16	83	29	35	25	20	13.6	f ₁ +w/2	14	80	6	224068
RH224.2020.14.0A.06.IK	20	20	98	29	35	25	-	17.6	f ₁ +w/2	14	80	6	224068
RH224.2525.14.0A.06.IK	25	25	113	29	35	30	-	22.6	f ₁ +w/2	14	80	6	224068
LH224.1616.14.0A.04.IK	16	16	83	29	35	25	20	14.3	f ₁ +w/2	14	80	4	224048
LH224.2020.14.0A.04.IK	20	20	98	29	35	25	-	18.3	f ₁ +w/2	14	80	4	224048
LH224.2525.14.0A.04.IK	25	25	113	29	35	30	-	23.3	f ₁ +w/2	14	80	4	224048
LH224.1616.14.0A.05.IK	16	16	83	29	35	25	20	13.95	f ₁ +w/2	14	80	5	224058
LH224.2020.14.0A.05.IK	20	20	98	29	35	25	-	17.95	f ₁ +w/2	14	80	5	224058
LH224.2525.14.0A.05.IK	25	25	113	29	35	30	-	22.95	f ₁ +w/2	14	80	5	224058
LH224.1616.14.0A.06.IK	16	16	83	29	35	25	20	13.6	f ₁ +w/2	14	80	6	224068
LH224.2020.14.0A.06.IK	20	20	98	29	35	25	-	17.6	f ₁ +w/2	14	80	6	224068
LH224.2525.14.0A.06.IK	25	25	113	29	35	30	-	22.6	f ₁ +w/2	14	80	6	224068

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	004.00.16	6.23T25P	T25PQ	6 Nm

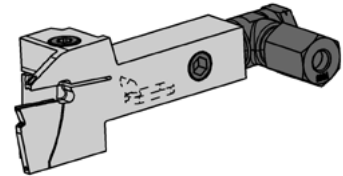
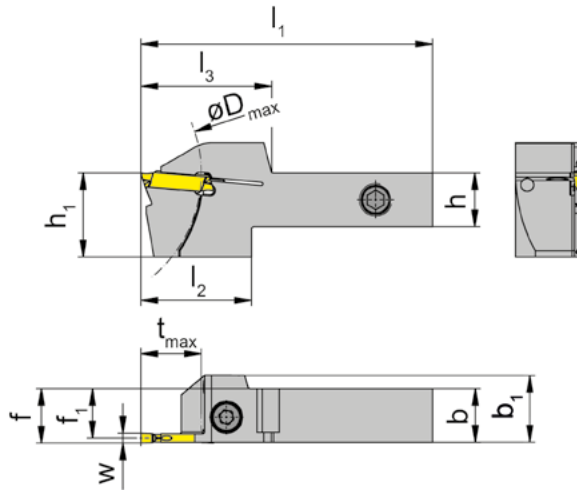
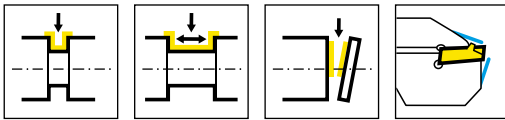


Part number	h	b	l ₁	l ₂	l ₃	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.18.0A.02.IK	16	16	87	33	39	25	20	15.2	f ₁ +w/2	18	80	2	224018
RH224.2020.18.0A.02.IK	20	20	102	33	39	25	-	19.2	f ₁ +w/2	18	80	2	224018
RH224.2525.18.0A.02.IK	25	25	117	33	39	30	-	24.2	f ₁ +w/2	18	80	2	224018
RH224.1616.18.0A.25.IK	16	16	87	33	39	25	20	14.95	f ₁ +w/2	18	80	2.5	224028
RH224.2020.18.0A.25.IK	20	20	102	33	39	25	-	18.95	f ₁ +w/2	18	80	2.5	224028
RH224.2525.18.0A.25.IK	25	25	117	33	39	30	-	23.95	f ₁ +w/2	18	80	2.5	224028
RH224.1616.18.0A.03.IK	16	16	87	33	39	25	20	14.75	f ₁ +w/2	18	80	3	224038
RH224.2020.18.0A.03.IK	20	20	102	33	39	25	-	18.75	f ₁ +w/2	18	80	3	224038
RH224.2525.18.0A.03.IK	25	25	117	33	39	30	-	23.75	f ₁ +w/2	18	80	3	224038
LH224.1616.18.0A.02.IK	16	16	87	33	39	25	20	15.2	f ₁ +w/2	18	80	2	224018
LH224.2020.18.0A.02.IK	20	20	102	33	39	25	-	19.2	f ₁ +w/2	18	80	2	224018
LH224.2525.18.0A.02.IK	25	25	117	33	39	30	-	24.2	f ₁ +w/2	18	80	2	224018
LH224.1616.18.0A.25.IK	16	16	87	33	39	25	20	14.95	f ₁ +w/2	18	80	2.5	224028
LH224.2020.18.0A.25.IK	20	20	102	33	39	25	-	18.95	f ₁ +w/2	18	80	2.5	224028
LH224.2525.18.0A.25.IK	25	25	117	33	39	30	-	23.95	f ₁ +w/2	18	80	2.5	224028
LH224.1616.18.0A.03.IK	16	16	87	33	39	25	20	14.75	f ₁ +w/2	18	80	3	224038
LH224.2020.18.0A.03.IK	20	20	102	33	39	25	-	18.75	f ₁ +w/2	18	80	3	224038
LH224.2525.18.0A.03.IK	25	25	117	33	39	30	-	23.75	f ₁ +w/2	18	80	3	224038

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	004.00.16	6.23T25P	T25PQ	6 Nm

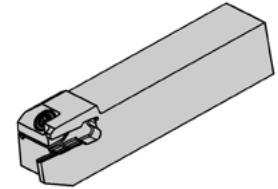
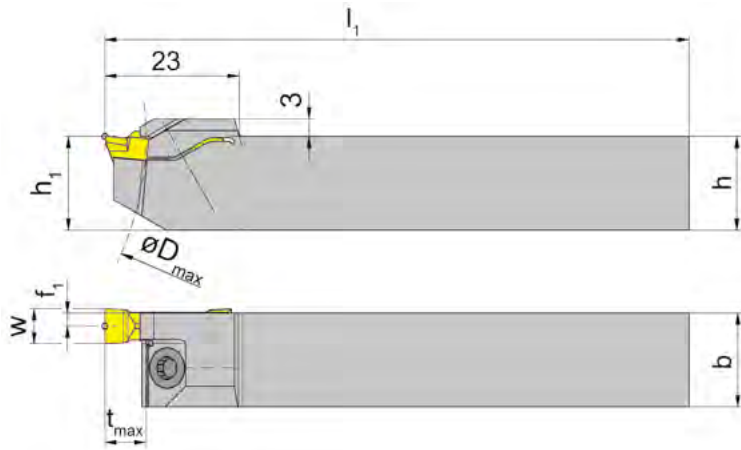
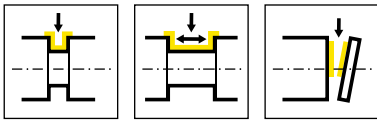


Part number	h	b	l ₁	l ₂	l ₃	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1616.18.0A.04.IK	16	16	87	33	39	25	20	14.3	f ₁ +w/2	18	80	4	224048
RH224.2020.18.0A.04.IK	20	20	102	33	39	25	-	18.3	f ₁ +w/2	18	80	4	224048
RH224.2525.18.0A.04.IK	25	25	117	33	39	30	-	23.3	f ₁ +w/2	18	80	4	224048
RH224.1616.18.0A.05.IK	16	16	87	33	39	25	20	13.95	f ₁ +w/2	18	80	5	224058
RH224.2020.18.0A.05.IK	20	20	102	33	39	25	-	17.95	f ₁ +w/2	18	80	5	224058
RH224.2525.18.0A.05.IK	25	25	117	33	39	30	-	22.95	f ₁ +w/2	18	80	5	224058
RH224.1616.18.0A.06.IK	16	16	87	33	39	25	20	13.6	f ₁ +w/2	18	80	6	224068
RH224.2020.18.0A.06.IK	20	20	102	33	39	25	-	17.6	f ₁ +w/2	18	80	6	224068
RH224.2525.18.0A.06.IK	25	25	117	33	39	30	-	22.6	f ₁ +w/2	18	80	6	224068
LH224.1616.18.0A.04.IK	16	16	87	33	39	25	20	14.3	f ₁ +w/2	18	80	4	224048
LH224.2020.18.0A.04.IK	20	20	102	33	39	25	-	18.3	f ₁ +w/2	18	80	4	224048
LH224.2525.18.0A.04.IK	25	25	117	33	39	30	-	23.3	f ₁ +w/2	18	80	4	224048
LH224.1616.18.0A.05.IK	16	16	87	33	39	25	20	13.95	f ₁ +w/2	18	80	5	224058
LH224.2020.18.0A.05.IK	20	20	102	33	39	25	-	17.95	f ₁ +w/2	18	80	5	224058
LH224.2525.18.0A.05.IK	25	25	117	33	39	30	-	22.95	f ₁ +w/2	18	80	5	224058
LH224.1616.18.0A.06.IK	16	16	87	33	39	25	20	13.6	f ₁ +w/2	18	80	6	224068
LH224.2020.18.0A.06.IK	20	20	102	33	39	25	-	17.6	f ₁ +w/2	18	80	6	224068
LH224.2525.18.0A.06.IK	25	25	117	33	39	30	-	22.6	f ₁ +w/2	18	80	6	224068

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	004.00.16	6.23T25P	T25PQ	6 Nm



L = left hand version shown

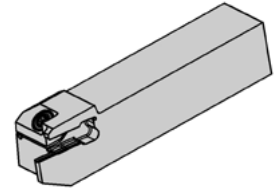
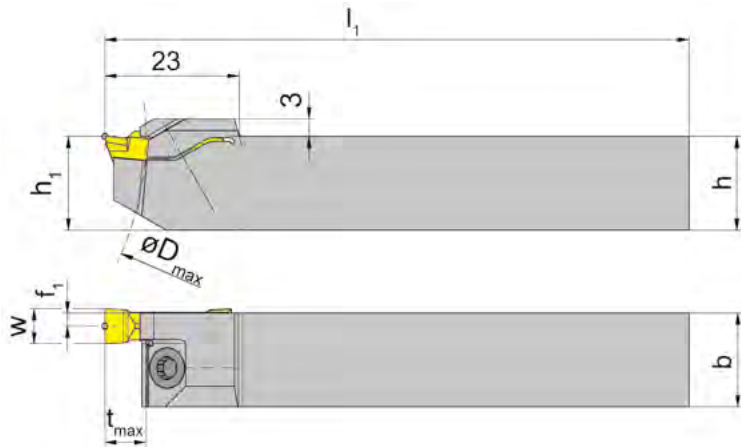
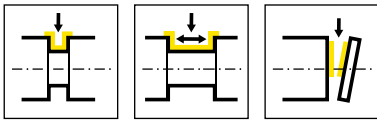
R = right hand version

Part number	h	b	l ₁	h ₁	f ₁	t _{max}	D _{max}	w	HWS
RH224.1212.61	12	12	100	12	0.7	7	100	2	224018
RH224.1616.61	16	16	100	16	0.7	7	100	2	224018
RH224.2020.61	20	20	100	20	0.7	7	100	2	224018
RH224.1212.62	12	12	100	12	0.9	7	100	2.5	224028
RH224.1616.62	16	16	100	16	0.9	7	100	2.5	224028
RH224.2020.62	20	20	100	20	0.9	7	100	2.5	224028
RH224.1212.63	12	12	100	12	1.1	7	100	3	224038
RH224.1616.63	16	16	100	16	1.1	7	100	3	224038
RH224.2020.63	20	20	100	20	1.1	7	100	3	224038
RH224.1212.64	12	12	100	12	1.45	7	100	4	224048
RH224.1616.64	16	16	100	16	1.45	7	100	4	224048
RH224.2020.64	20	20	100	20	1.45	7	100	4	224048
LH224.1212.61	12	12	100	12	0.7	7	100	2	224018
LH224.1616.61	16	16	100	16	0.7	7	100	2	224018
LH224.2020.61	20	20	100	20	0.7	7	100	2	224018
LH224.1212.62	12	12	100	12	0.9	7	100	2.5	224028
LH224.2020.62	20	20	100	20	0.9	7	100	2.5	224028
LH224.1212.63	12	12	100	12	1.1	7	100	3	224038
LH224.1616.63	16	16	100	16	1.1	7	100	3	224038
LH224.2020.63	20	20	100	20	1.1	7	100	3	224038
LH224.1212.64	12	12	100	12	1.45	7	100	4	224048
LH224.1616.64	16	16	100	16	1.45	7	100	4	224048
LH224.2020.64	20	20	100	20	1.45	7	100	4	224048

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	4.12T15EP	T15PL	5 Nm



L = left hand version shown

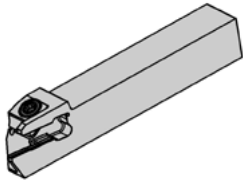
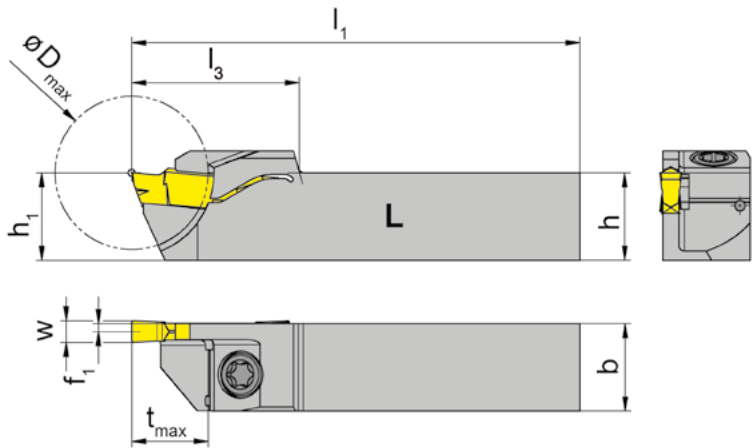
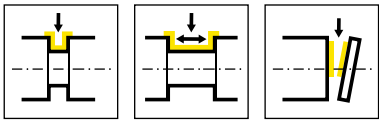
R = right hand version

Part number	h	b	L ₁	h ₁	f ₁	t _{max}	D _{max}	w	HWS
RH224.1616.65	16	16	100	16	1.85	7	100	5	224058
RH224.2020.65	20	20	100	20	1.85	7	100	5	224058
RH224.1616.66	16	20	125	20	2.25	7	100	6	224068
RH224.2020.66	20	20	100	20	2.25	7	100	6	224068
LH224.1616.65	16	16	100	16	1.85	7	100	5	224058
LH224.2020.65	20	20	100	20	1.85	7	100	5	224058
LH224.1616.66	16	16	100	16	2.25	7	100	6	224068
LH224.2020.66	20	20	100	20	2.25	7	100	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	5.13T20EP	T20PQ	6.5 Nm



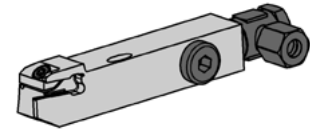
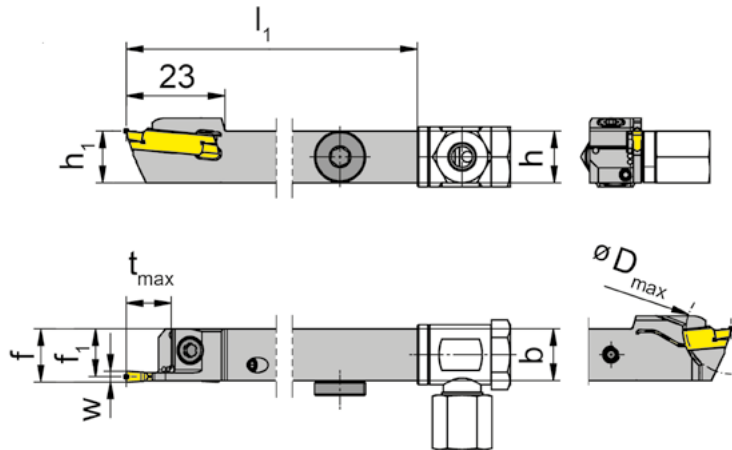
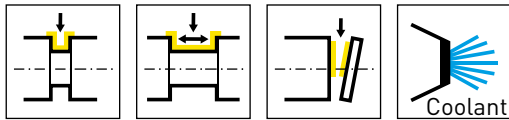
L = left hand version shown R = right hand version

Part number	h	b	l ₁	l ₃	h ₁	f ₁	t _{max}	D _{max}	w	HWS
RH224.1212.20.61	12	12	100	23	12	0.7	10.5	21	2	224018
RH224.1212.20.62	12	12	100	23	12	0.9	10.5	21	2.5	224028
RH224.1212.20.63	12	12	100	23	12	1.1	10.5	21	3	224038
LH224.1212.20.61	12	12	100	23	12	0.7	10.5	21	2	224018
LH224.1212.20.62	12	12	100	23	12	0.9	10.5	21	2.5	224028
LH224.1212.20.63	12	12	100	23	12	1.1	10.5	21	3	224038

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	4.12T15EP	T15PQ	5 Nm



R = right hand version shown

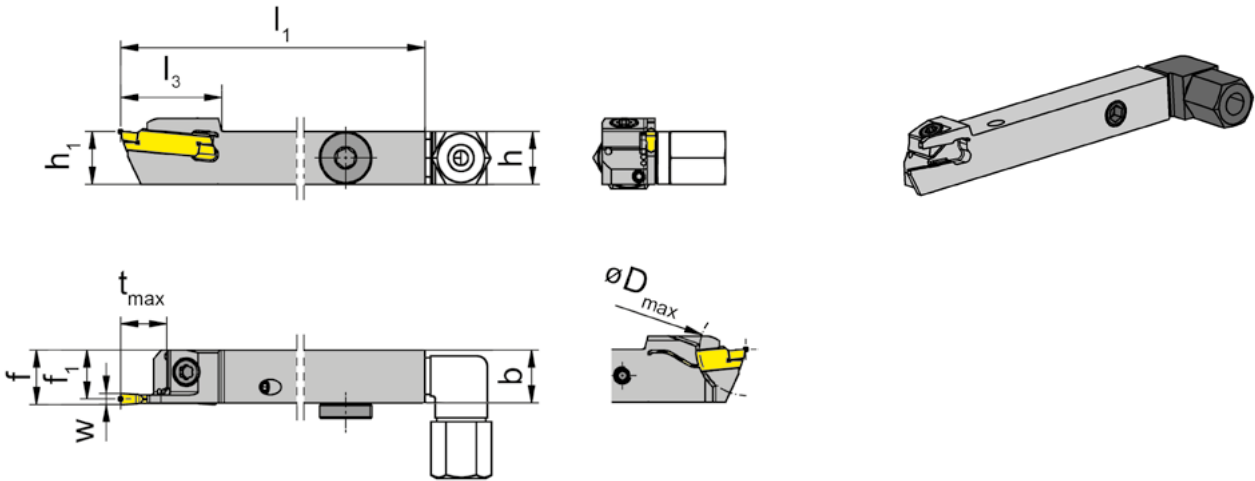
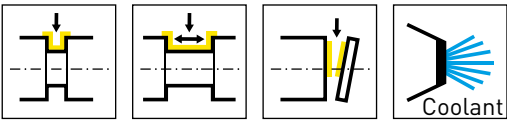
L = left hand version

Part number	h	b	l_1	h_1	f_1	f	t_{max}	D_{max}	w	HWS
RH224.1212.61.IK	12	12	100	12	0.7	$f_1 + w/2$	7	100	2	224018
RH224.1616.61.IK	16	16	100	16	0.7	$f_1 + w/2$	7	100	2	224018
RH224.2020.61.IK	20	20	100	20	0.7	$f_1 + w/2$	7	100	2	224018
RH224.1212.62.IK	12	12	100	12	0.9	$f_1 + w/2$	7	100	2.5	224028
RH224.1616.62.IK	16	16	100	16	0.9	$f_1 + w/2$	7	100	2.5	224028
RH224.2020.62.IK	20	20	100	20	0.9	$f_1 + w/2$	7	100	2.5	224028
RH224.1212.63.IK	12	12	100	12	1.1	$f_1 + w/2$	7	100	3	224038
RH224.1616.63.IK	16	16	100	16	1.1	$f_1 + w/2$	7	100	3	224038
RH224.2020.63.IK	20	20	100	20	1.1	$f_1 + w/2$	7	100	3	224038
RH224.1616.64.IK	16	16	100	16	1.45	$f_1 + w/2$	7	100	4	224048
RH224.2020.64.IK	20	20	100	20	1.45	$f_1 + w/2$	7	100	4	224048
LH224.1212.61.IK	12	12	100	12	0.7	$f_1 + w/2$	7	100	2	224018
LH224.1616.61.IK	16	16	100	16	0.7	$f_1 + w/2$	7	100	2	224018
LH224.2020.61.IK	20	20	100	20	0.7	$f_1 + w/2$	7	100	2	224018
LH224.1616.62.IK	16	16	100	16	0.9	$f_1 + w/2$	7	100	2.5	224028
LH224.2020.62.IK	20	20	100	20	0.9	$f_1 + w/2$	7	100	2.5	224028
LH224.1212.63.IK	12	12	100	12	1.1	$f_1 + w/2$	7	100	3	224038
LH224.1616.63.IK	16	16	100	16	1.1	$f_1 + w/2$	7	100	3	224038
LH224.2020.63.IK	20	20	100	20	1.1	$f_1 + w/2$	7	100	3	224038
LH224.1616.64.IK	16	16	100	16	1.45	$f_1 + w/2$	7	100	4	224048
LH224.2020.64.IK	20	20	100	20	1.45	$f_1 + w/2$	7	100	4	224048

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH224...	4.12T15EP	004.00.16	T15PQ	004.00.26	5 Nm



R = right hand version shown

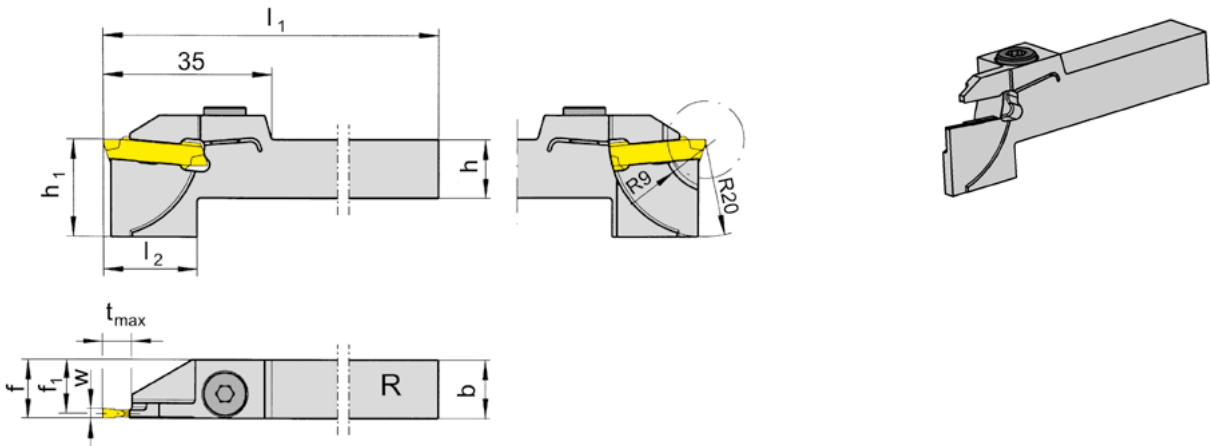
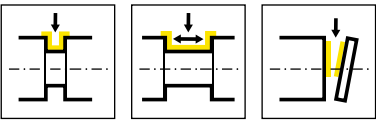
L = left hand version

Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH224.1212.20.61.IK	12	12	100	23	12	0.7	f ₁ +w/2	10.5	21	2	224018
RH224.1212.20.62.IK	12	12	100	23	12	0.9	f ₁ +w/2	10.5	21	2.5	224028
RH224.1212.20.63.IK	12	12	100	23	12	1.1	f ₁ +w/2	10.5	21	3	224038
LH224.1212.20.61.IK	12	12	100	23	12	0.7	f ₁ +w/2	10.5	21	2	224018
LH224.1212.20.63.IK	12	12	100	23	12	1.1	f ₁ +w/2	10.5	21	3	224038

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
R/LH224...	4.12T15EP	004.00.22	T15PL	5 Nm



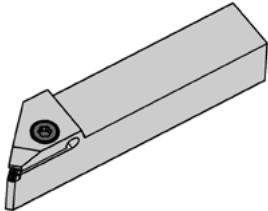
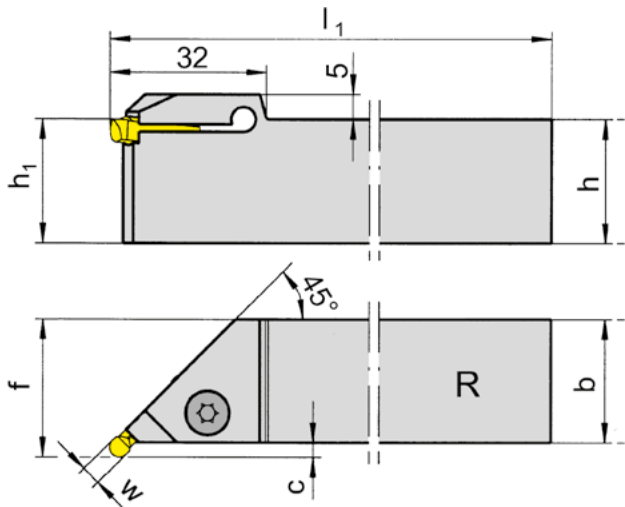
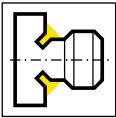
R = right hand version shown

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	w	HWS
RH224.1212.81	12	12	95	19.5	20	11.1	f ₁ +w/2	8.2	2	224018

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH224.1212.81	6.17T25P	T25PQ	5 Nm



R = right hand version shown

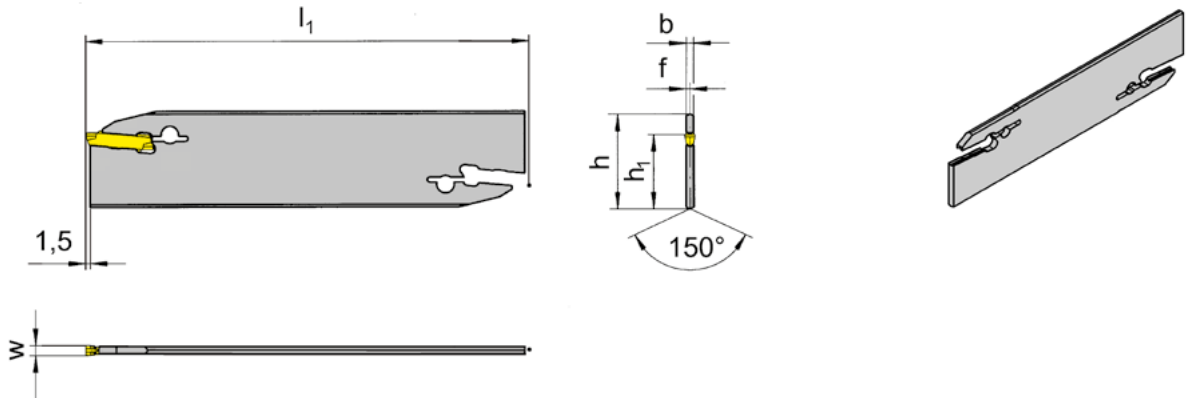
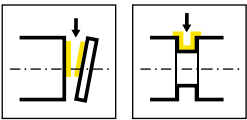
L = left hand version

Part number	h	b	l ₁	h ₁	f	C	Width of groove (mm)	HWS
RH224.4520.02	20	20	125	20	23	2.5	2.0-2.8	224028
RH224.4525.02	25	25	150	25	28	2.5	2.0-2.8	224028
RH224.4520.04	20	20	125	20	23	2.5	2.8-4.4	224048
RH224.4525.04	25	25	150	25	28	2.5	2.8-4.4	224048
RH224.4520.06	20	20	125	20	23.5	3	4.4-6.1	224068
RH224.4525.06	25	25	150	25	28.5	3	4.4-6.1	224068
LH224.4520.02	20	20	125	20	23	2.5	2.0-2.8	224028
LH224.4525.02	25	25	150	25	28	2.5	2.0-2.8	224028
LH224.4520.04	20	20	125	20	23	2.5	2.8-4.4	224048
LH224.4525.04	25	25	150	25	28	2.5	2.8-4.4	224048
LH224.4520.06	20	20	125	20	23.5	3	4.4-6.1	224068
LH224.4525.06	25	25	150	25	28.5	3	4.4-6.1	224068

w and Dmin see indexable inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	6.23T25P	T25PQ	6 Nm



Part number	h	b	l ₁	h ₁	f	t _{max}	w	HWS
H224.2602.02	26	1.9	110	21.4	0.95	18	2.5	224028
H224.2603.03	26	2.3	110	21.4	1.15	18	3	224038
H224.3203.03	32	2.3	150	24.8	1.15	18	3	224038

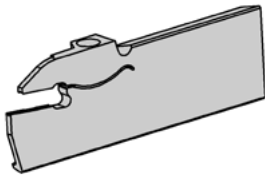
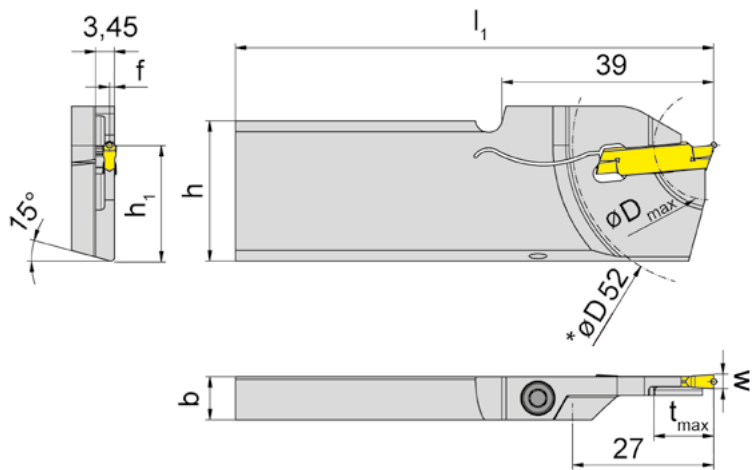
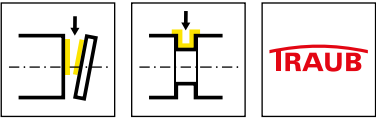
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required.

Spare Parts

Toolholder	Wrench
LH224...	P39L





L = left hand version

Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	w	HWS
LH224.2608.20.T.81	26	8	88	21.4	0.7	18	36	2	224018
LH224.2608.20.T.82	26	8	88	21.4	0.9	18	36	2.5	224028
LH224.2608.20.T.83	26	8	88	21.4	1.1	18	36	3	224038

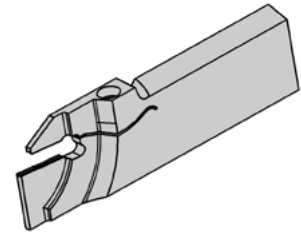
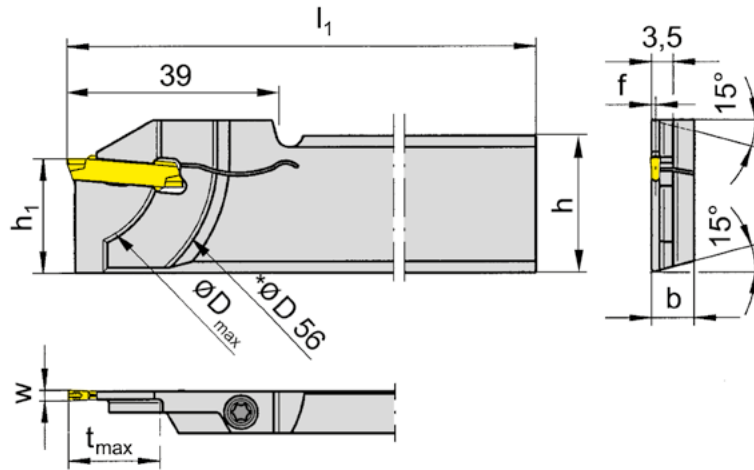
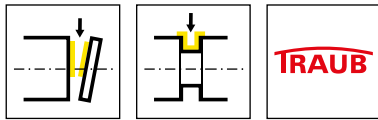
for machines TRAUB (TNL18P)

For the (w) dimension, see inserts

*D 52 = Dmax of the subspindle

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH224...	4.15T15P	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	w	HWS
RH224.2608.81	26	7.9	110	21.4	0.75	18	36	2	224018
RH224.2608.82	26	7.9	110	21.4	0.95	18	36	2.5	224028
RH224.2608.83	26	7.9	110	21.4	1.2	18	36	3	224038
LH224.2608.81	26	7.9	110	21.4	0.75	18	36	2	224018
LH224.2608.82	26	7.9	110	21.4	0.95	18	36	2.5	224028
LH224.2608.83	26	7.9	110	21.4	1.1	18	36	3	224038

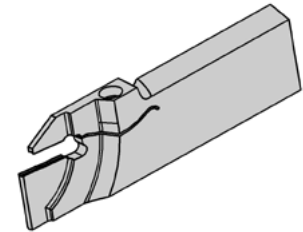
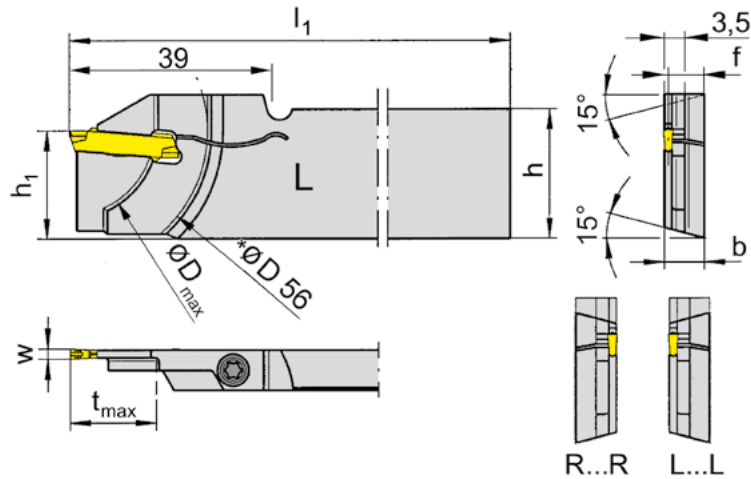
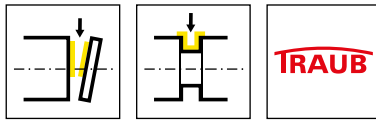
for machines TRAUB (TNK28/TNK36/TNL26)

For the (w) dimension, see inserts

*D 56 = Dmax of the subspindle

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	4.15T15P	T15PL	5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	w	HWS
RH224.2608.81R	26	7.9	110	21.4	7.15	18	36	2	224018
RH224.2608.82R	26	7.9	110	21.4	6.95	18	36	2.5	224028
RH224.2608.83R	26	7.9	110	21.4	6.75	18	36	3	224038
RH224.3208.83R	32	7.9	110	24.8	6.8	21	42	3	224038
LH224.2608.81L	26	7.9	110	21.4	7.15	18	36	2	224018
LH224.2608.82L	26	7.9	110	21.4	6.95	18	36	2.5	224028
LH224.2608.83L	26	7.9	110	21.4	6.75	18	36	3	224038
LH224.3208.83L	32	7.9	110	24.8	6.8	21	42	3	224038

for machines TRAUB (TNK28/TNK36/TNL26)

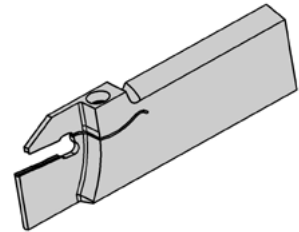
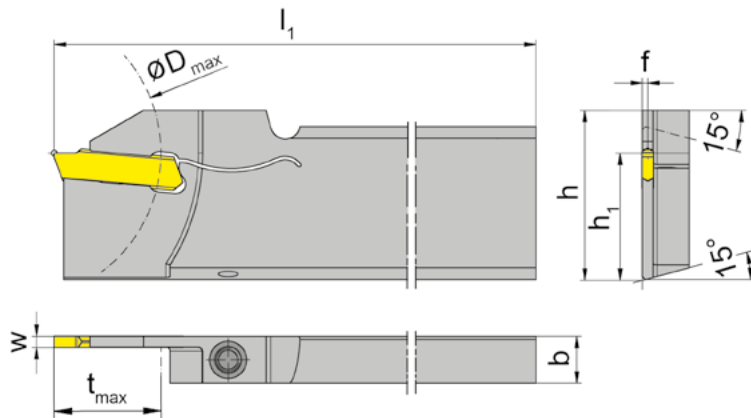
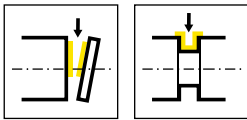
For the (w) dimension, see inserts

*D 56 = Dmax of the subspindle

* For specific clamping device on subspindle (e.g. HAINBUCH Axfixchuck)

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224.2608....	4.15T15P	T15PL	5 Nm
R/LH224.3208...	5.13T20P	T20PQ	6.5 Nm



R = right hand version shown

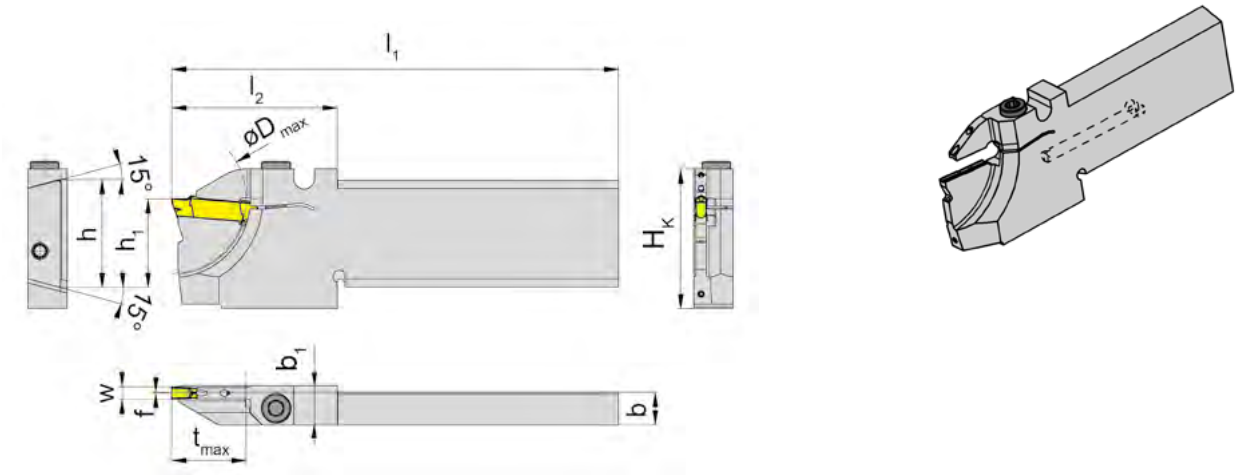
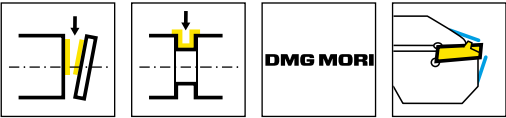
L = left hand version

Part number	h	b	l_1	h_1	f	t_{max}	D_{max}	w	HWS
RH224.2608.01	26	7.9	110	21.4	0.7	18	50	2	224018
RH224.3208.01	32	7.9	110	24.8	0.7	18	50	2	224018
RH224.2608.02	26	7.9	110	21.4	0.9	18	50	2.5	224028
RH224.3208.02	32	7.9	110	24.8	0.9	18	50	2.5	224028
RH224.2608.03	26	7.9	110	21.4	1.1	18	50	3	224038
RH224.3208.03	32	7.9	110	24.8	1.1	18	50	3	224038
LH224.2608.01	26	7.9	110	21.4	0.7	18	50	2	224018
LH224.3208.01	32	7.9	110	24.8	0.7	18	50	2	224018
LH224.2608.02	26	7.9	110	21.4	0.9	18	50	2.5	224028
LH224.3208.02	32	7.9	110	24.8	0.9	18	50	2.5	224028
LH224.2608.03	26	7.9	110	21.4	1.1	18	50	3	224038
LH224.3208.03	32	7.9	110	24.8	1.1	18	50	3	224038

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224...	4.20T15P	T15PL	4.3 Nm



R = right hand version shown

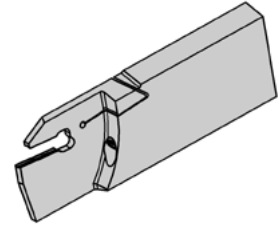
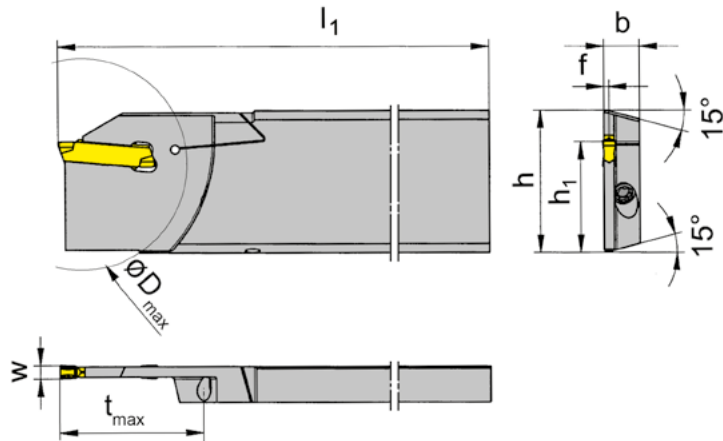
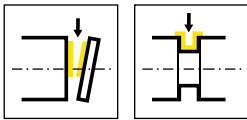
Part number	H _K	h	b	l ₁	h ₁	f	t _{max}	l ₂	D _{max}	b ₁	w	HWS
RH224.2608.1.18.4.73.IK	33.6	26	7.9	108	21.4	0.2	18	40	36	9.5	3	224038
RH224.2608.1.18.4.73R.IK	33.6	26	7.9	108	21.4	6.4	18	40	36	9.5	3	224038
RH224.2608.2.18.4.73.IK	33.6	26	7.9	124	21.4	0.2	18	65	36	9.5	3	224038
RH224.2608.2.18.4.73R.IK	33.6	26	7.9	124	21.4	6.4	18	65	36	9.5	3	224038

for machines DMG MORI (MULTISPRINT 36)

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH224...	5.13T20P	T20PQ	6.5 Nm



R = right hand version shown

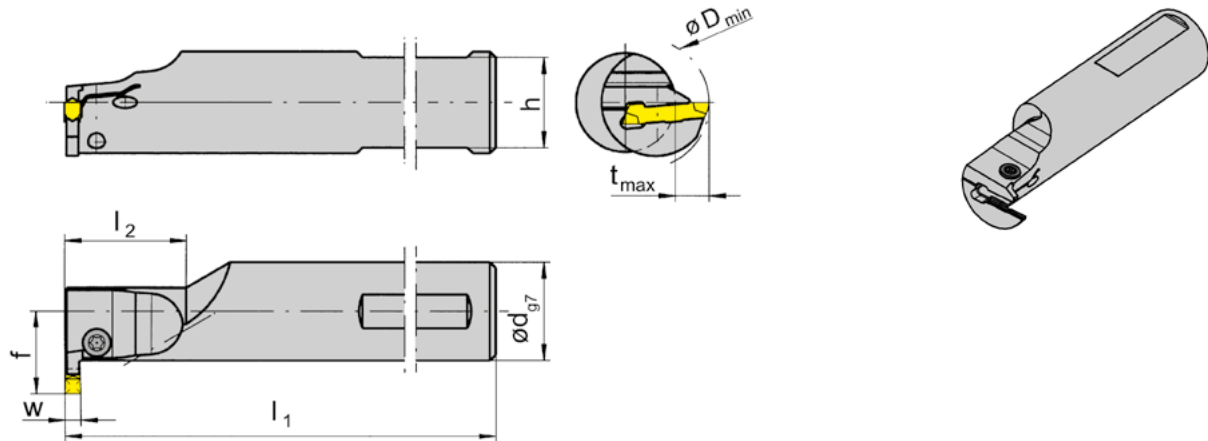
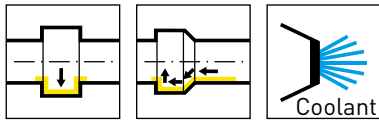
L = left hand version

Part number	h	b	l_1	h_1	f	t_{max}	D_{max}	w	HWS
RH224.3208.93	32	8	112	24.8	1.15	32.5	65	3	224038
LH224.3208.93	32	8	112	24.8	1.15	32.5	65	3	224038

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH224.3208.93	030.0413.T15P	T15PQ	3 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU224.0750.1.01	.750	5.118	1.181	.671	.728	.315	1.102	224018
RBU224.1000.1.01	1.000	5.118	1.181	.921	.827	.315	1.102	224018
RBU224.0750.1.02	.750	5.118	1.181	.671	.728	.315	1.102	224028
RBU224.1000.1.02	1.000	5.118	1.181	.921	.827	.315	1.102	224028
RBU224.0750.1.03	.750	5.118	1.181	.671	.728	.315	1.102	224038
RBU224.1000.1.03	1.000	5.118	1.181	.921	.827	.315	1.102	224038
RBU224.1250.1.03	1.250	6.004	1.181	1.171	.965	.315	1.102	224038
RBU224.0750.1.04	.750	5.118	1.181	.671	.728	.315	1.102	224048
RBU224.1000.1.04	1.000	5.118	1.181	.921	.827	.315	1.102	224048
RBU224.1250.1.04	1.250	6.004	1.181	1.171	.965	.315	1.102	224048
RBU224.0750.1.05	.750	5.118	1.181	.671	.728	.315	1.102	224058
RBU224.1000.1.05	1.000	5.118	1.181	.921	.827	.315	1.102	224058
RBU224.1000.1.06	1.000	5.118	1.181	.921	.827	.315	1.102	224068
LBU224.0750.1.01	.750	5.118	1.181	.671	.728	.315	1.102	224018
LBU224.1000.1.01	1.000	5.118	1.181	.921	.827	.315	1.102	224018
LBU224.0750.1.02	.750	5.118	1.181	.671	.728	.315	1.102	224028
LBU224.1000.1.02	1.000	5.118	1.181	.921	.827	.315	1.102	224028
LBU224.0750.1.03	.750	5.118	1.181	.671	.728	.315	1.102	224038
LBU224.1000.1.03	1.000	5.118	1.181	.921	.827	.315	1.102	224038
LBU224.1250.1.03	1.250	6.004	1.181	1.171	.965	.315	1.102	224038
LBU224.0750.1.04	.750	5.118	1.181	.671	.728	.315	1.102	224048
LBU224.1000.1.04	1.000	5.118	1.181	.921	.827	.315	1.102	224048
LBU224.1250.1.04	1.250	6.004	1.181	1.171	.965	.315	1.102	224048
LBU224.1000.1.05	1.000	5.118	1.181	.921	.827	.315	1.102	224058
LBU224.1000.1.06	1.000	5.118	1.181	.921	.827	.315	1.102	224068

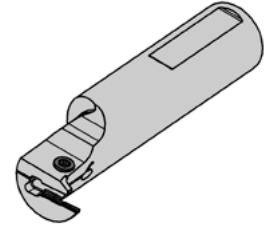
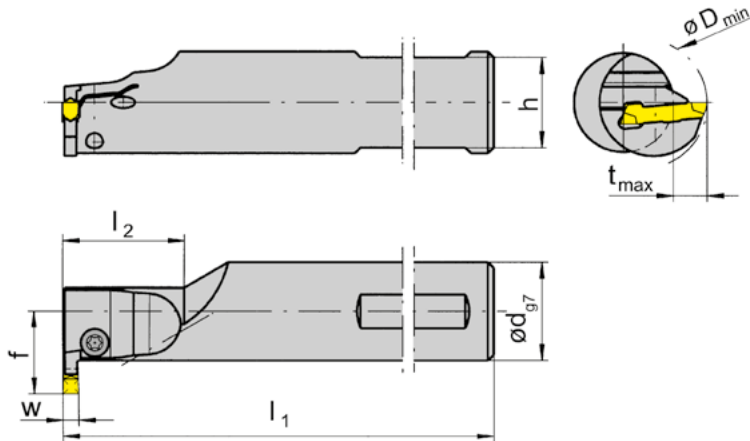
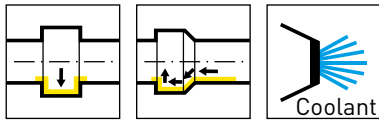
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU224.1000.1.13	1.000	5.118	1.181	.921	.925	.394	1.260	224038
RBU224.1250.1.13	1.250	6.004	1.181	1.171	1.102	.433	1.260	224038
RBU224.1000.1.14	1.000	5.118	1.181	.921	.925	.394	1.260	224048
RBU224.1250.1.14	1.250	6.004	1.181	1.171	1.102	.433	1.260	224048
RBU224.1250.1.15	1.250	6.004	1.181	1.171	1.102	.433	1.260	224058
RBU224.1500.1.25	1.500	7.008	1.181	1.421	1.299	.512	1.496	224058
RBU224.1250.1.16	1.250	6.004	1.181	1.171	1.102	.433	1.260	224068
RBU224.1500.1.26	1.500	7.008	1.181	1.421	1.299	.512	1.496	224068
LBU224.1000.1.13	1.000	5.118	1.181	.921	.925	.394	1.260	224038
LBU224.1250.1.13	1.250	6.004	1.181	1.171	1.102	.433	1.260	224038
LBU224.1000.1.14	1.000	5.118	1.181	.921	.925	.394	1.260	224048
LBU224.1250.1.14	1.250	6.004	1.181	1.171	1.102	.433	1.260	224048
LBU224.1250.1.15	1.250	6.004	1.181	1.171	1.102	.433	1.260	224058
LBU224.1500.1.25	1.500	7.008	1.181	1.421	1.299	.512	1.496	224058
LBU224.1250.1.16	1.250	6.004	1.181	1.171	1.102	.433	1.260	224068
LBU224.1500.1.26	1.500	7.008	1.181	1.421	1.299	.512	1.496	224068

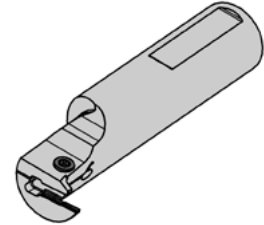
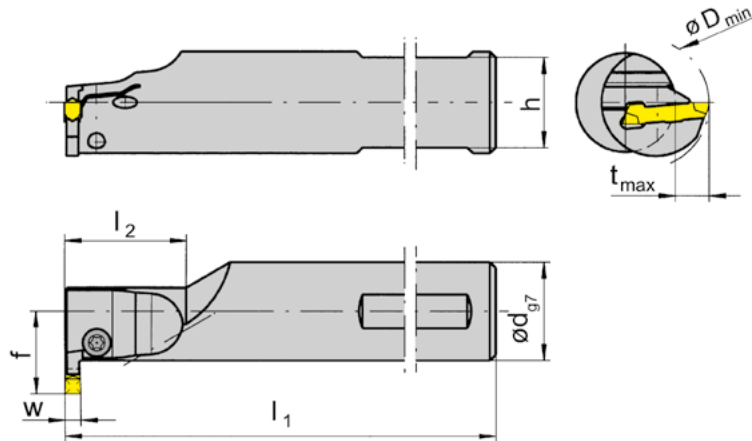
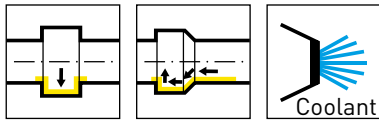
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBUE224.0750.2.01	.750	5.118	1.772	.671	.728	.315	1.102	224018
RBUE224.1000.2.01	1.000	6.004	1.969	.921	.827	.315	1.102	224018
RBUE224.0750.2.02	.750	5.118	1.772	.671	.728	.315	1.102	224028
RBUE224.1000.2.02	1.000	6.004	1.969	.921	.827	.315	1.102	224028
RBUE224.1000.2.03	1.000	6.004	1.969	.921	.827	.315	1.102	224038
RBUE224.1250.2.03	1.250	7.008	1.969	1.171	.965	.315	1.102	224038
RBUE224.1250.2.13	1.250	7.008	1.969	1.171	1.102	.433	1.260	224038
RBUE224.1000.2.04	1.000	6.004	1.969	.921	.827	.315	1.102	224048
RBUE224.1250.2.04	1.250	7.008	1.969	1.171	.965	.315	1.102	224048
RBUE224.1250.2.14	1.250	7.008	1.969	1.171	1.102	.433	1.260	224048
LBUE224.0750.2.01	.750	5.118	1.772	.671	.728	.315	1.102	224018
LBUE224.1000.2.01	1.000	6.004	1.969	.921	.827	.315	1.102	224018
LBUE224.0750.2.02	.750	5.118	1.772	.671	.728	.315	1.102	224028
LBUE224.1000.2.02	1.000	6.004	1.969	.921	.827	.315	1.102	224028
LBUE224.1000.2.03	1.000	6.004	1.969	.921	.827	.315	1.102	224038
LBUE224.1250.2.03	1.250	7.008	1.969	1.171	.965	.315	1.102	224038
LBUE224.1250.2.13	1.250	7.008	1.969	1.171	1.102	.433	1.260	224038
LBUE224.1000.2.04	1.000	6.004	1.969	.921	.827	.315	1.102	224048
LBUE224.1250.2.04	1.250	7.008	1.969	1.171	.965	.315	1.102	224048
LBUE224.1250.2.14	1.250	7.008	1.969	1.171	1.102	.433	1.260	224048

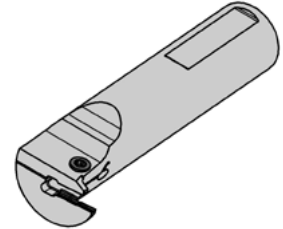
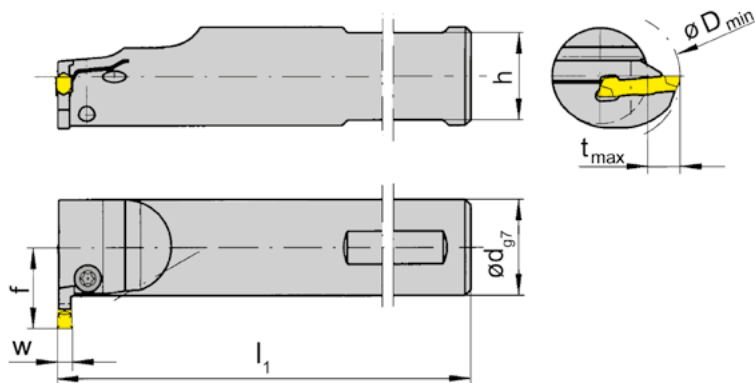
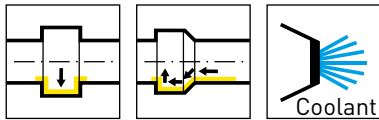
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

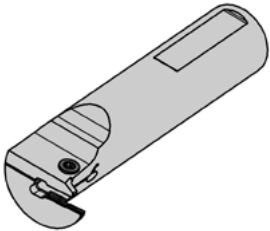
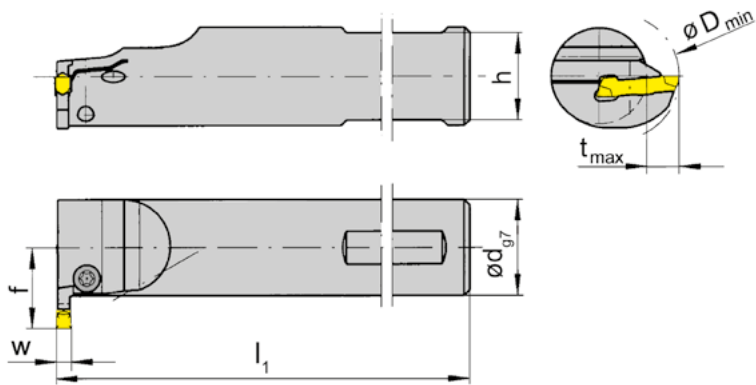
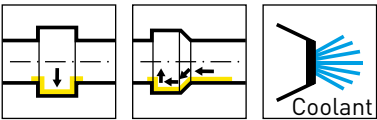
L = left hand version

Part number	d	l ₁	h	f	t _{max}	D _{min}	w	HWS
RB224.0020.0.01	20	130	18	18.5	8	30	2	224018
RB224.0025.0.01	25	130	23	21	8	35	2	224018
RB224.0020.0.02	20	130	18	18.5	8	30	2.5	224028
RB224.0025.0.02	25	130	23	21	8	35	2.5	224028
RB224.0020.0.03	20	130	18	18.5	8	30	3	224038
RB224.0025.0.03	25	130	23	21	8	35	3	224038
RB224.0032.0.03	32	150	30	24.5	8	42	3	224038
RB224.0020.0.04	20	130	18	18.5	8	30	4	224048
RB224.0025.0.04	25	130	23	21	8	35	4	224048
RB224.0032.0.04	32	150	30	24.5	8	42	4	224048
LB224.0020.0.01	20	130	18	18.5	8	30	2	224018
LB224.0025.0.01	25	130	23	21	8	35	2	224018
LB224.0020.0.02	20	130	18	18.5	8	30	2.5	224028
LB224.0025.0.02	25	130	23	21	8	35	2.5	224028
LB224.0020.0.03	20	130	18	18.5	8	30	3	224038
LB224.0025.0.03	25	130	23	21	8	35	3	224038
LB224.0032.0.03	32	150	30	24.5	8	42	3	224038
LB224.0020.0.04	20	130	18	18.5	8	30	4	224048
LB224.0025.0.04	25	130	23	21	8	35	4	224048
LB224.0032.0.04	32	150	30	24.5	8	42	4	224048

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

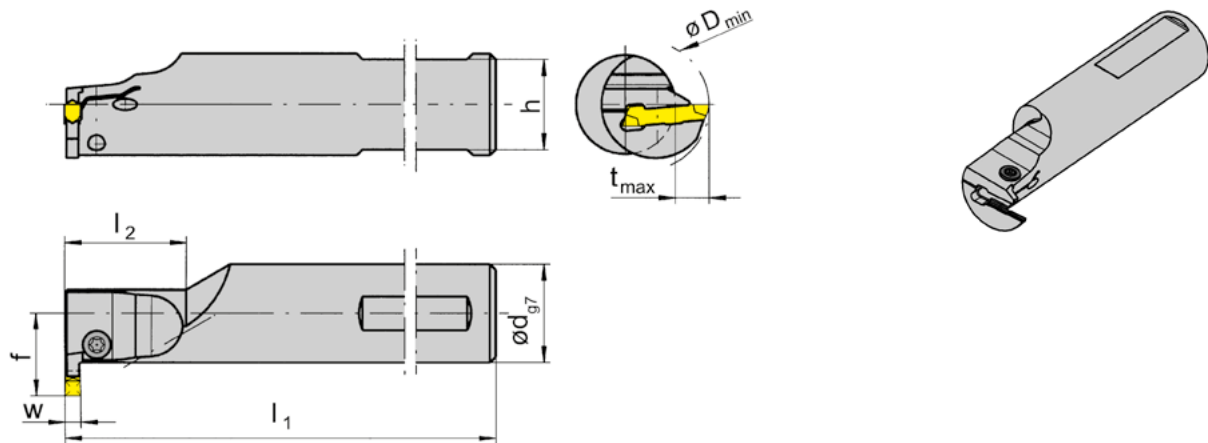
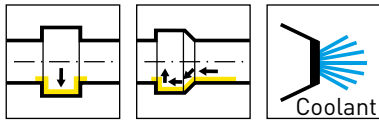
L = left hand version

Part number	d	l ₁	h	f	t _{max}	D _{min}	w	HWS
RB224.0020.0.05	20	130	18	18.5	8	30	5	224058
RB224.0025.0.05	25	130	23	21	8	35	5	224058
RB224.0032.0.05	32	150	30	24.5	8	42	5	224058
RB224.0025.0.06	25	130	23	21	8	35	6	224068
RB224.0032.0.06	32	150	30	24.5	8	42	6	224068
LB224.0020.0.05	20	130	18	18.5	8	30	5	224058
LB224.0025.0.05	25	130	23	21	8	35	5	224058
LB224.0032.0.05	32	150	30	24.5	8	42	5	224058
LB224.0025.0.06	25	130	23	21	8	35	6	224068
LB224.0032.0.06	32	150	30	24.5	8	42	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

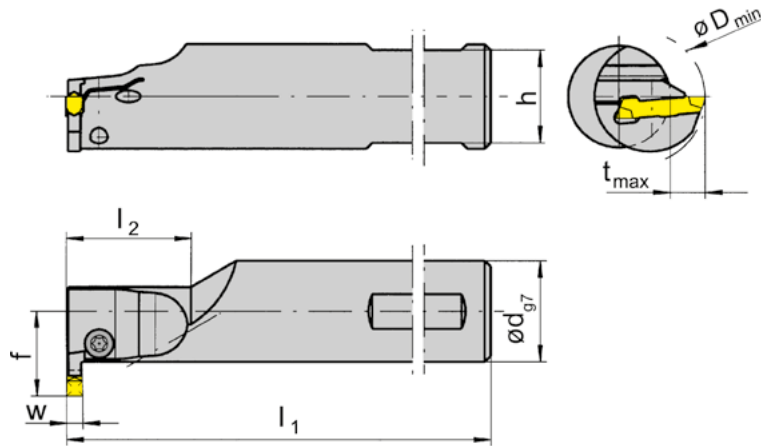
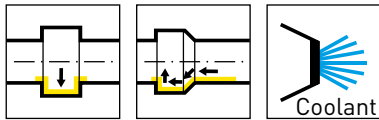
L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	w	HWS
RB224.0020.1.01	20	130	30	18	18.5	8	28	2	224018
RB224.0025.1.01	25	130	30	23	21	8	28	2	224018
RB224.0020.1.02	20	130	30	18	18.5	8	28	2.5	224028
RB224.0025.1.02	25	130	30	23	21	8	28	2.5	224028
RB224.0020.1.03	20	130	30	18	18.5	8	28	3	224038
RB224.0025.1.03	25	130	30	23	21	8	28	3	224038
RB224.0032.1.03	32	150	30	30	24.5	8	28	3	224038
RB224.0020.1.04	20	130	30	18	18.5	8	28	4	224048
RB224.0025.1.04	25	130	30	23	21	8	28	4	224048
RB224.0032.1.04	32	150	30	30	24.5	8	28	4	224048
RB224.0025.1.05	25	130	30	23	21	8	28	5	224058
RB224.0032.1.05	32	150	30	30	24.5	8	28	5	224058
RB224.0025.1.06	25	130	30	23	21	8	28	6	224068
RB224.0032.1.06	32	150	30	30	24.5	8	28	6	224068
LB224.0020.1.01	20	130	30	18	18.5	8	28	2	224018
LB224.0025.1.01	25	130	30	23	21	8	28	2	224018
LB224.0020.1.02	20	130	30	18	18.5	8	28	2.5	224028
LB224.0025.1.02	25	130	30	23	21	8	28	2.5	224028
LB224.0020.1.03	20	130	30	18	18.5	8	28	3	224038
LB224.0025.1.03	25	130	30	23	21	8	28	3	224038
LB224.0032.1.03	32	150	30	30	24.5	8	28	3	224038
LB224.0020.1.04	20	130	30	18	18.5	8	28	4	224048
LB224.0025.1.04	25	130	30	23	21	8	28	4	224048
LB224.0032.1.04	32	150	30	30	24.5	8	28	4	224048
LB224.0025.1.05	25	130	30	23	21	8	28	5	224058
LB224.0032.1.05	32	150	30	30	24.5	8	28	5	224058
LB224.0025.1.06	25	130	30	23	21	8	28	6	224068
LB224.0032.1.06	32	150	30	30	24.5	8	28	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

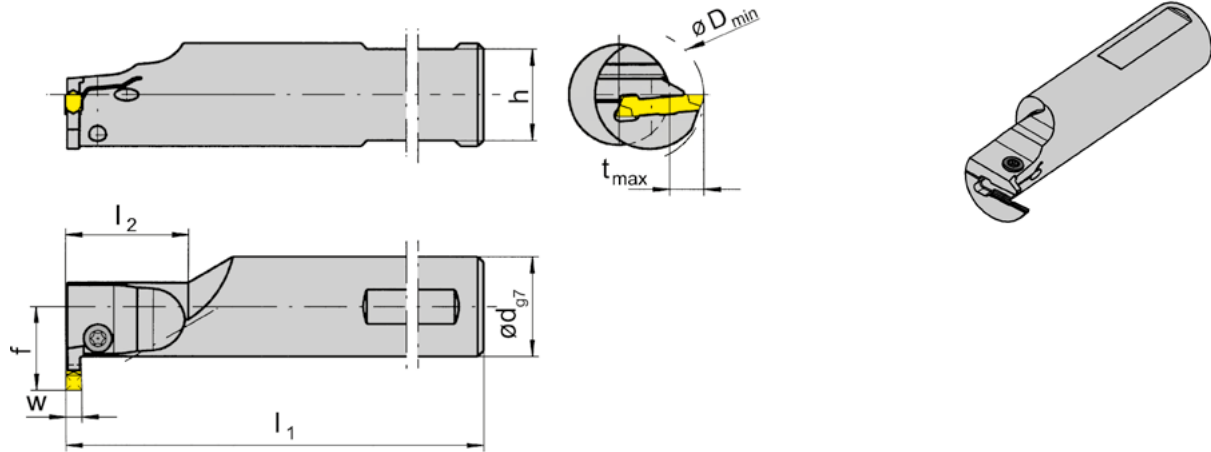
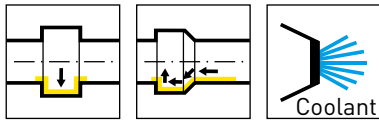
L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	w	HWS
RB224.0025.1.13	25	130	30	23	23.5	10	32	3	224038
RB224.0032.1.13	32	150	30	30	28	11	32	3	224038
RB224.0025.1.14	25	130	30	23	23.5	10	32	4	224048
RB224.0032.1.14	32	150	30	30	28	11	32	4	224048
RB224.0032.1.15	32	150	30	30	28	11	32	5	224058
RB224.0040.1.25	40	180	30	38	34	13	38	5	224058
RB224.0032.1.16	32	150	30	30	28	11	32	6	224068
RB224.0040.1.26	40	180	30	38	34	13	38	6	224068
LB224.0025.1.13	25	130	30	23	23.5	10	32	3	224038
LB224.0032.1.13	32	150	30	30	28	11	32	3	224038
LB224.0025.1.14	25	130	30	23	23.5	10	32	4	224048
LB224.0032.1.14	32	150	30	30	28	11	32	4	224048
LB224.0032.1.15	32	150	30	30	28	11	32	5	224058
LB224.0040.1.25	40	180	30	38	34	13	38	5	224058
LB224.0032.1.16	32	150	30	30	28	11	32	6	224068
LB224.0040.1.26	40	180	30	38	34	13	38	6	224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown

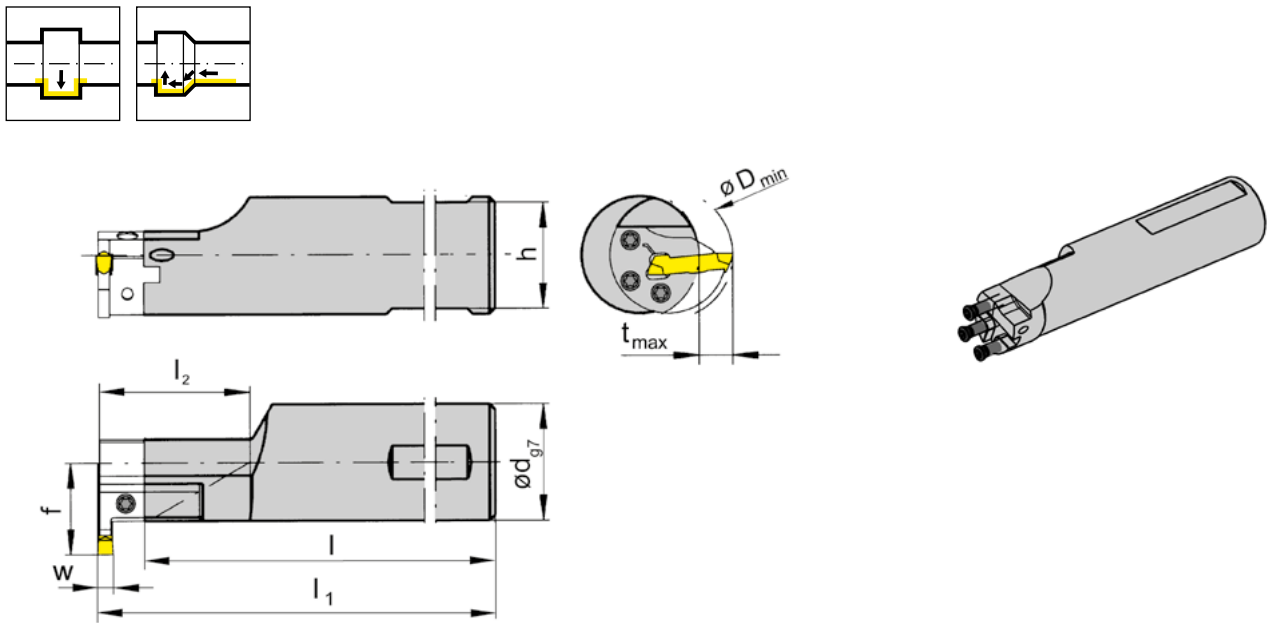
L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	w	HWS
RB224.0020.2.01	20	130	45	18	18.5	8	28	2	224018
RB224.0025.2.01	25	150	50	23	21	8	28	2	224018
RB224.0020.2.02	20	130	45	18	18.5	8	28	2.5	224028
RB224.0025.2.02	25	150	50	23	21	8	28	2.5	224028
RB224.0025.2.03	25	150	50	23	21	8	28	3	224038
RB224.0032.2.03	32	180	50	30	24.5	8	28	3	224038
RB224.0032.2.13	32	180	50	30	28	11	32	3	224038
RB224.0025.2.04	25	150	50	23	21	8	28	4	224048
RB224.0032.2.04	32	180	50	30	24.5	8	28	4	224048
RB224.0032.2.14	32	180	50	30	28	11	32	4	224048
LB224.0020.2.01	20	130	45	18	18.5	8	28	2	224018
LB224.0025.2.01	25	150	50	23	21	8	28	2	224018
LB224.0020.2.02	20	130	45	18	18.5	8	28	2.5	224028
LB224.0025.2.02	25	150	50	23	21	8	28	2.5	224028
LB224.0025.2.03	25	150	50	23	21	8	28	3	224038
LB224.0032.2.03	32	180	50	30	24.5	8	28	3	224038
LB224.0032.2.13	32	180	50	30	28	11	32	3	224038
LB224.0025.2.04	25	150	50	23	21	8	28	4	224048
LB224.0032.2.04	32	180	50	30	24.5	8	28	4	224048
LB224.0032.2.14	32	180	50	30	28	11	32	4	224048

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown L = left hand version

Part number	l_1	d	l	l_2	h	f	HWS
RB U 224.1250.1.K2	$l+b_1+w/2$	1.250	5.465	1.181	1.171	1.102	BK2242
RB U 224.1500.1.K2	$l+b_1+w/2$	1.500	6.469	1.181	1.421	1.220	BK2242
RB U 224.1250.2.K2	$l+b_1+w/2$	1.250	6.469	2.362	1.171	1.102	BK2242
RB U 224.1500.2.K2	$l+b_1+w/2$	1.500	7.453	2.362	1.421	1.220	BK2242
LB U 224.1250.1.K2	$l+b_1+w/2$	1.250	5.465	1.181	1.171	1.102	BK2242
LB U 224.1500.1.K2	$l+b_1+w/2$	1.500	6.469	1.181	1.421	1.220	BK2242
LB U 224.1250.2.K2	$l+b_1+w/2$	1.250	6.469	2.362	1.171	1.102	BK2242
LB U 224.1500.2.K2	$l+b_1+w/2$	1.500	7.453	2.362	1.421	1.220	BK2242

For the (w) dimension, see inserts
For dimensions (Dmin), (tmax), and (b1), see cassettes

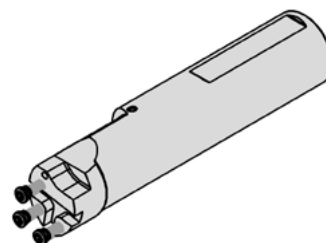
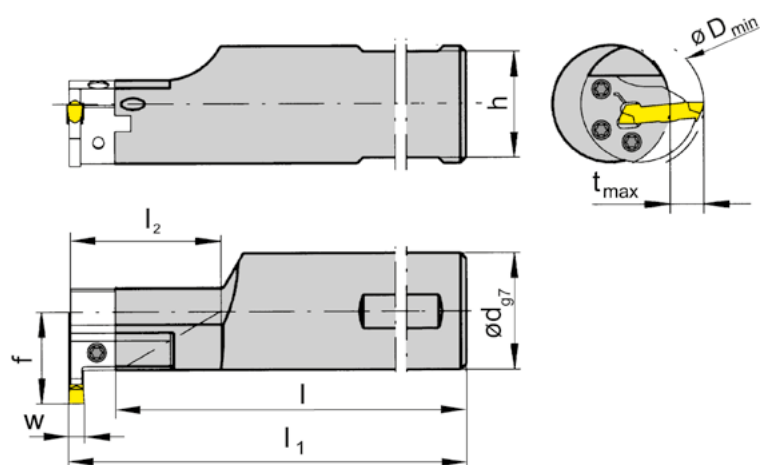
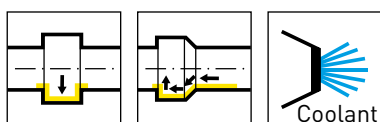
Note:
For BK224 cassettes **without** coolant supply

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU224...	030.0518.T20P	T20PQ	3 Nm



R = right hand version shown

L = left hand version

Part number	l_1	d	l	l_2	h	f	HWS
RB224.0032.1.K2.IK	$l+b_1+w/2$	32	136.6	30	30	28	BK2241
RB224.0032.2.K2.IK	$l+b_1+w/2$	32	166.3	60	30	28	BK2241
RB224.0040.1.K2.IK	$l+b_1+w/2$	40	136.3	30	38	32	BK2241
RB224.0040.2.K2.IK	$l+b_1+w/2$	40	166.3	60	38	32	BK2241
RB224.0040.3.K2.IK	$l+b_1+w/2$	40	216.3	90	38	32	BK2241
LB224.0032.1.K2.IK	$l+b_1+w/2$	32	136.6	30	30	28	BK2242
LB224.0032.2.K2.IK	$l+b_1+w/2$	32	166.3	60	30	28	BK2242
LB224.0040.1.K2.IK	$l+b_1+w/2$	40	136.3	30	38	32	BK2242
LB224.0040.2.K2.IK	$l+b_1+w/2$	40	166.3	60	38	32	BK2242
LB224.0040.3.K2.IK	$l+b_1+w/2$	40	216.3	90	38	32	BK2242

For the (w) dimension, see inserts

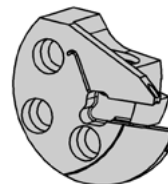
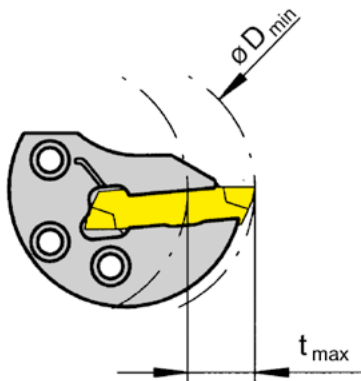
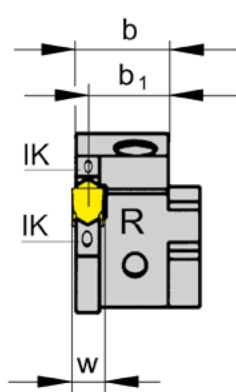
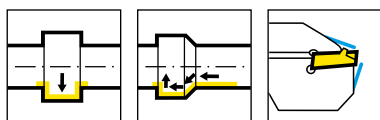
For dimensions (Dmin), (tmax), and (b1), see cassettes

Note:For cassettes BK224 **with** coolant supply

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	030.0518.T20P	T20PQ	3 Nm



R = right hand version shown

L = left hand version

Part number	D_{min}	t_{max}	b	b_1	w	HWS	HMS
RBK224.0040.01.IK	40	11	13.5	12.7	2	224018	BK2241
RBK224.0040.02.IK	40	11	13.45	12.45	2.5	224028	BK2241
RBK224.0040.03.IK	40	11	13.4	12.2	3	224038	BK2241
RBK224.0040.04.IK	40	11	13.35	11.7	4	224048	BK2241
RBK224.0040.05.IK	40	11	13.2	11.2	5	224058	BK2241
RBK224.0040.06.IK	40	11	13.05	10.7	6	224068	BK2241
LBK224.0040.01.IK	40	11	13.5	12.7	2	224018	BK2242
LBK224.0040.02.IK	40	11	13.45	12.45	2.5	224028	BK2242
LBK224.0040.03.IK	40	11	13.4	12.2	3	224038	BK2242
LBK224.0040.04.IK	40	11	13.35	11.7	4	224048	BK2242
LBK224.0040.05.IK	40	11	13.2	11.2	5	224058	BK2242
LBK224.0040.06.IK	40	11	13.05	10.7	6	224068	BK2242

The cassette mounting screws are included with the basic toolholder - no separate order is required.

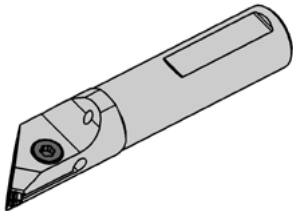
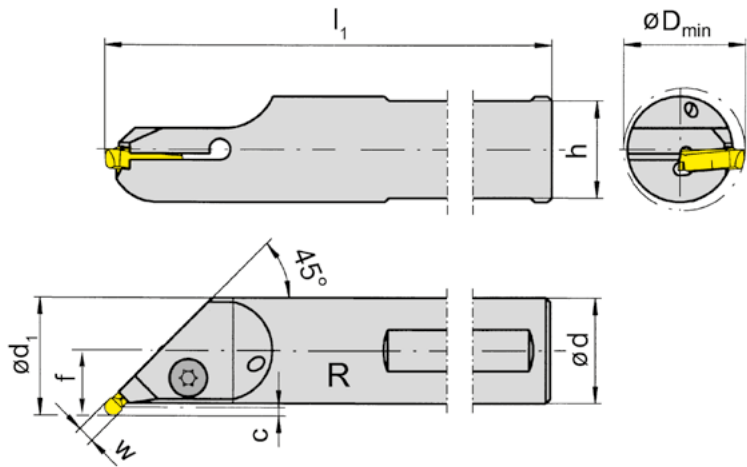
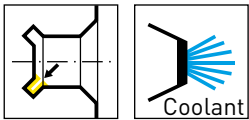
Note:

For basic toolholder B224 **with** coolant supply

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBK224...	5.13T20EP	T20PQ	6.5 Nm



R = right hand version shown L = left hand version

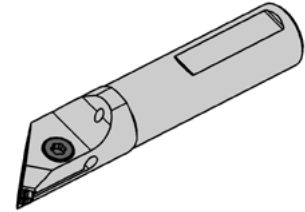
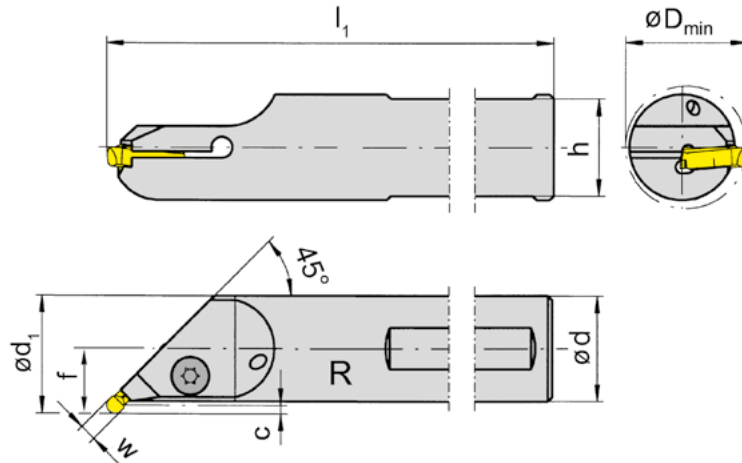
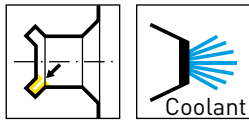
Part number	d	l ₁	f	C	D _{min}	d ₁	Width of groove (mm)	HWS
RB U224.4510.0.04	1.000	6.004	.618	.098	1.157	1.118	.110-.173	224038 • 224048

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RB	6.14T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

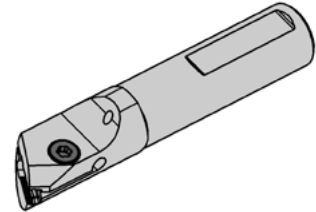
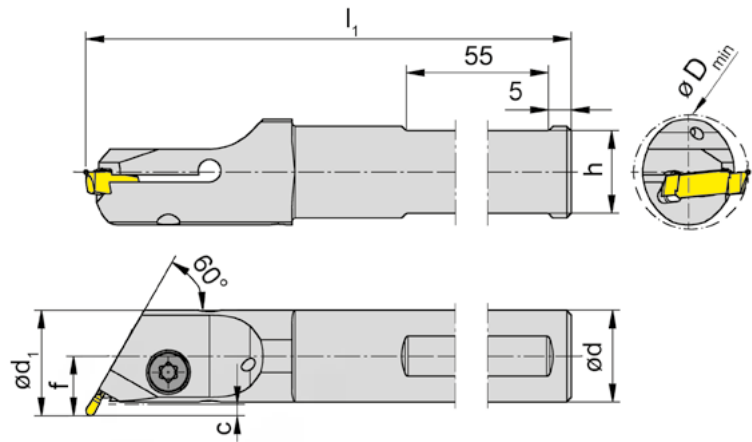
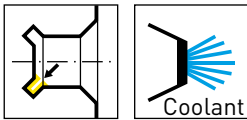
Part number	d	h	l_1	f	C	D_{min}	d_1	Width of groove (mm)	HWS
RB224.4520.0.02	20	18	130	13	2.5	25	23	2.0-2.8	224018 • 224028
RB224.4525.0.02	25	23	150	15.5	2.5	29	28	2.0-2.8	224018 • 224028
RB224.4532.0.02	32	30	150	19	2.5	36	35	2.0-2.8	224018 • 224028
RB224.4540.1.02	40	38	200	23	2.5	44	43	2.0-2.8	224018 • 224028
RB224.4520.0.04	20	18	130	13	2.5	25	23	2.8-4.4	224038 • 224048
RB224.4525.0.04	25	23	150	15.5	2.5	29	28	2.8-4.4	224038 • 224048
RB224.4532.0.04	32	30	150	19	2.5	36	35	2.8-4.4	224038 • 224048
RB224.4540.1.04	40	38	200	23	2.5	44	43	2.8-4.4	224038 • 224048
RB224.4520.0.06	20	18	130	13.5	3	25	23.5	4.4-6.1	224058 • 224068
RB224.4525.0.06	25	23	150	16	3	29.5	28.5	4.4-6.1	224058 • 224068
RB224.4532.0.06	32	30	150	19	3	36.5	35.5	4.4-6.1	224058 • 224068
LB224.4520.0.02	20	18	130	13	2.5	25	23	2.0-2.8	224018 • 224028
LB224.4525.0.02	25	23	150	15.5	2.5	29	28	2.0-2.8	224018 • 224028
LB224.4532.0.02	32	30	150	19	2.5	36	35	2.0-2.8	224018 • 224028
LB224.4540.1.02	40	38	200	23	2.5	44	43	2.0-2.8	224018 • 224028
LB224.4520.0.04	20	18	130	13	2.5	25	23	2.8-4.4	224038 • 224048
LB224.4525.0.04	25	23	150	15.5	2.5	29	28	2.8-4.4	224038 • 224048
LB224.4532.0.04	32	30	150	19	2.5	36	35	2.8-4.4	224038 • 224048
LB224.4540.1.04	40	38	200	23	2.5	44	43	2.8-4.4	224038 • 224048
LB224.4525.0.06	25	23	150	16	3	29.5	28.5	4.4-6.1	224058 • 224068
LB224.4532.0.06	32	30	150	19	3	36.5	35.5	4.4-6.1	224058 • 224068

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	6.14T25P	T25PQ	7 Nm



R = right hand version shown

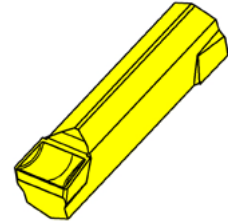
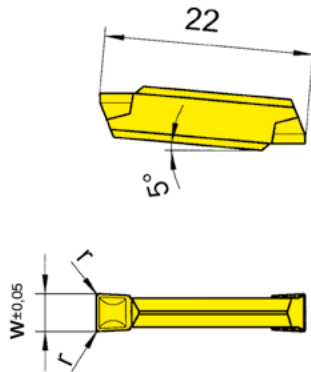
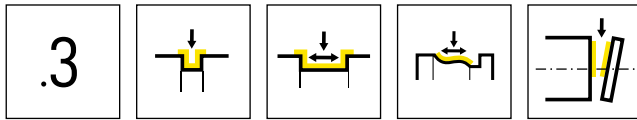
L = left hand version

Part number	d	h	l_1	f	C	D_{min}	d_1	Width of groove (mm)	HWS
RB224.6020.0.02	20	18	150	13	2.5	25	23	2.0-2.8	224018 • 224028
RB224.6025.0.02	25	23	150	15.5	2.5	29	28	2.0-2.8	224018 • 224028
RB224.6032.0.02	32	30	150	19	2.5	36	35	2.0-2.8	224018 • 224028
RB224.6020.0.04	20	18	150	13	2.5	25	23	2.8-4.4	224038 • 224048
RB224.6032.0.04	32	30	150	19	2.5	36	35	2.8-4.4	224038 • 224048
RB224.6020.0.06	20	18	150	13.5	3	25	23.5	4.4-6.1	224058 • 224068
RB224.6032.0.06	32	30	150	19.5	3	36.5	35.5	4.4-6.1	224068 • 224068
LB224.6020.0.02	20	18	150	13	2.5	25	23	2.0-2.8	224018 • 224028
LB224.6025.0.02	25	23	150	15.5	2.5	29	28	2.0-2.8	224018 • 224028
LB224.6020.0.04	20	18	150	13	2.5	25	23	2.8-4.4	224038 • 224048
LB224.6025.0.04	25	23	150	15.5	2.5	29	28	2.8-4.4	224038 • 224048
LB224.6020.0.06	20	18	150	13.5	3	25	23.5	4.4-6.1	224058 • 224068
LB224.6025.0.06	25	23	150	16	3	29.5	28.5	4.4-6.1	224058 • 224068
LB224.6032.0.06	32	30	150	19.5	3	36.5	35.5	4.4-6.1	224058 • 224068

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	6.14T25P	T25PQ	7 Nm

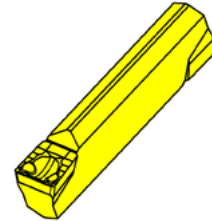
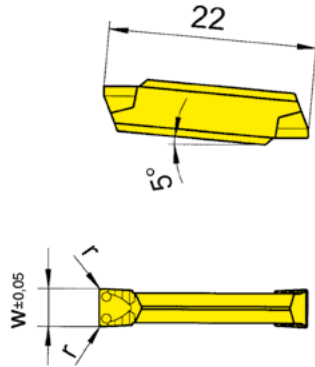
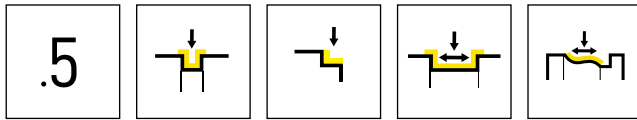


Coating grades

▲ In stock

△ 2 weeks

Part number	w	r	HIS	AS62	AS66	IG66	TF45	TI25	TN32	TN35
S224.0300.32	3	0.2	224038	▲	▲		▲	▲	▲	▲
S224.0300.34	3	0.4	224038	▲	▲	▲	▲	▲	▲	▲
S224.0400.32	4	0.2	224048	▲	▲	▲	▲	▲	▲	▲
S224.0400.34	4	0.4	224048	▲	▲	▲	▲	▲	▲	▲
S224.0500.34	5	0.4	224058	▲	▲	▲	▲	▲	▲	▲
S224.0500.38	5	0.8	224058	▲	▲		▲	▲	△	▲
S224.0600.34	6	0.4	224068	▲	▲		▲	▲	▲	▲
S224.0600.38	6	0.8	224068	▲	▲		▲	△		▲
Dimensions in mm				P	●	●	●	○	●	●
				M	○	●	●	-	●	-
				K	○	○	●	-	-	●
				N	-	-	-	-	○	-
				S	-	-	○	-	-	-
				H	-	-	-	-	-	-

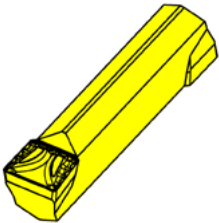
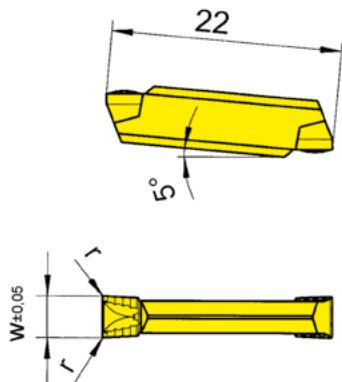
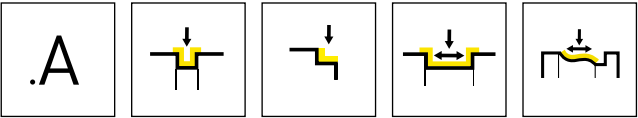


Coating grades

▲ In stock

△ 2 weeks

Part number	w	r	HIS		AS62	AS66	EG56	IG66	TF45	TI25	TN32	TN35
S224.0200.52	2	0.2	224018		▲	▲	▲	▲				
S224.0250.52	2.5	0.2	224028		▲	▲	▲	▲				
S224.0300.52	3	0.2	224038		▲	▲	▲		▲	▲	▲	▲
S224.0300.54	3	0.4	224038		▲	▲	▲		▲	▲	▲	▲
S224.0400.52	4	0.2	224048		▲	▲	▲		▲	▲	▲	▲
S224.0400.54	4	0.4	224048		▲	▲	▲	▲	▲	▲	▲	▲
S224.0500.54	5	0.4	224058		▲	▲	▲		▲	▲	▲	▲
S224.0500.58	5	0.8	224058		▲	▲	▲	▲		▲	△	△
S224.0600.54	6	0.4	224068		▲	▲	▲		▲	▲	△	▲
S224.0600.58	6	0.8	224068		▲	▲	▲		△	△	△	△
Dimensions in mm				P	●	●	●	●	○	●	●	●
				M	○	●	○	●	-	●	-	-
				K	○	○	○	●	-	-	●	●
				N	-	-	-	-	-	○	-	-
				S	-	-	-	○	-	-	-	-
				H	-	-	-	-	-	-	-	-

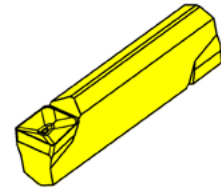
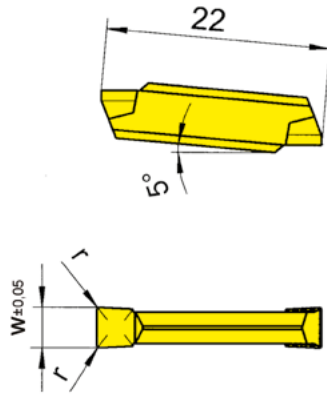
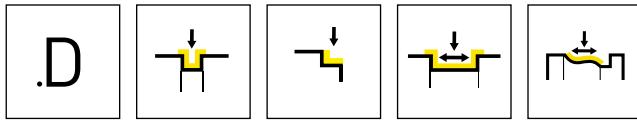


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS62	IG66	TF45	TI25	TN32	TN35
S224.0300.A2	3	0.2	224038		▲	▲	▲	▲	▲	▲
S224.0300.A4	3	0.4	224038		▲		▲	▲	▲	▲
S224.0400.A2	4	0.2	224048		▲		▲	▲	▲	▲
S224.0400.A4	4	0.4	224048		▲		▲	▲	▲	▲
S224.0500.A4	5	0.4	224058		▲		▲	▲	▲	▲
S224.0500.A8	5	0.8	224058		▲		Δ	Δ	▲	Δ
S224.0600.A4	6	0.4	224068		▲		Δ	▲		▲
S224.0600.A8	6	0.8	224068		▲		Δ	Δ	Δ	▲
Dimensions in mm				P	●	●	○	●	●	●
				M	○	●	-	●	-	-
				K	○	●	-	-	●	●
				N	-	-	-	○	-	-
				S	-	○	-	-	-	-
				H	-	-	-	-	-	-

G

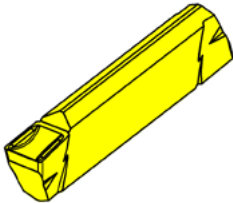
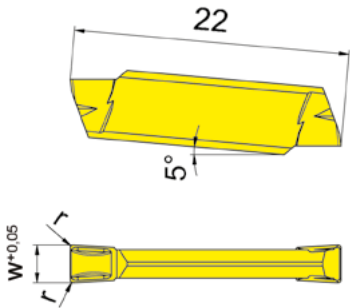
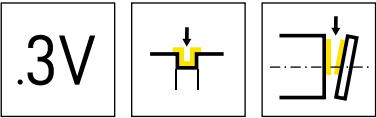


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		H54	IG66	TF45	TF46	TI22	TI25	TN32	TN35
S224.0200.D2	2	0.2	224018		▲	▲	▲	▲		▲	▲	▲
S224.0200.D2.G	2	0.2	224018						▲			
S224.0250.D2	2.5	0.2	224028		Δ		▲	▲		▲	▲	▲
S224.0250.D2.G	2.5	0.2	224028					▲	▲			
S224.0300.D2	3	0.2	224038		▲		▲	▲		▲	▲	▲
S224.0300.D2.G	3	0.2	224038				▲	▲	▲			
S224.0400.D2	4	0.2	224048		Δ	▲	▲	▲		▲	▲	▲
S224.0400.D2.G	4	0.2	224048					▲	▲			
D2 inserts are precision sintered, D2.G inserts are precision ground				P	●	●	○	○	●	●	●	●
Dimensions in mm				M	-	●	-	-	●	●	-	-
				K	-	●	-	-	-	-	●	●
				N	-	-	-	-	○	○	-	-
				S	-	○	-	-	-	-	-	-
				H	-	-	-	-	-	-	-	-

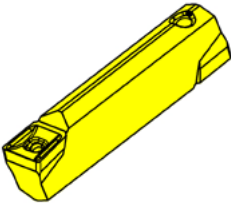
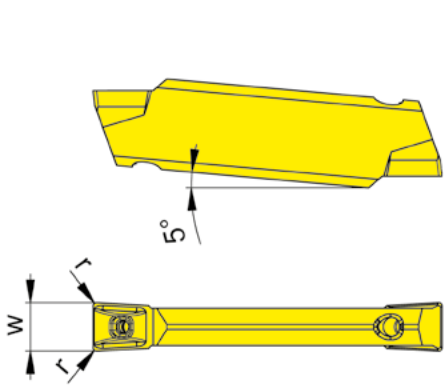
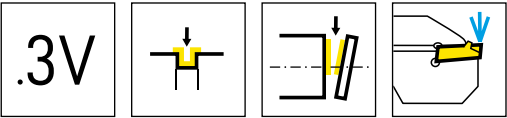


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS45	HP65	IG35
S224.0200.3V2	2	0.2	224018	▲	▲	▲
S224.0250.3V2	2.5	0.2	224028	▲	▲	▲
S224.0300.3V2	3	0.2	224038	▲	▲	▲
S224.0400.3V3	4	0.3	224048	▲	▲	▲
Dimensions in mm				P	●	●
				M	○	●
				K	○	●
				N	-	○
				S	-	○
				H	-	-



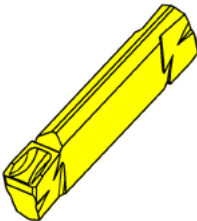
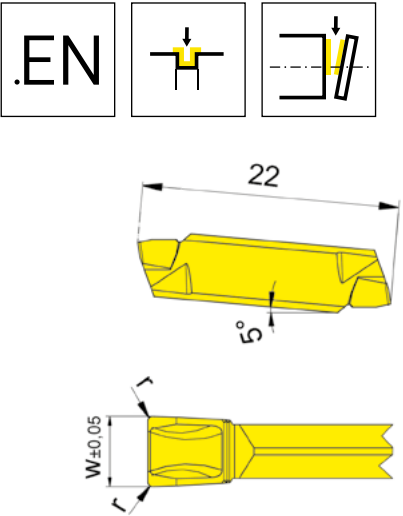
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		HP65	IG35
S224.0300.3V2.IK	3	0.2	224039		▲	▲
Dimensions in mm				P	●	●
				M	●	●
				K	●	●
				N	○	○
				S	●	○
				H	-	-

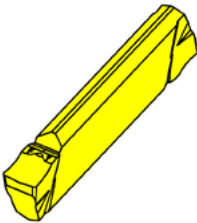
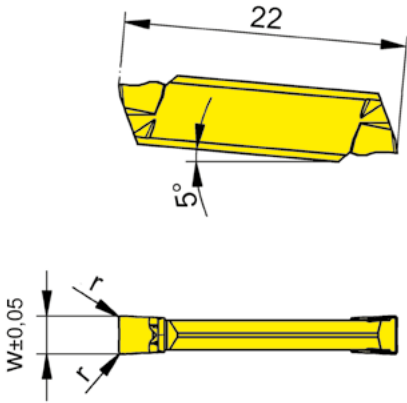
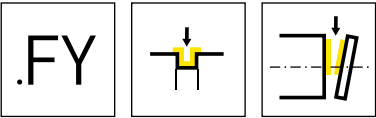




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		
				AS62	AS65
S224.0200.EN2	2	0.2	224018	▲	
S224.0250.EN2	2.5	0.2	224028	▲	
S224.0300.EN2	3	0.2	224038	▲	▲
Dimensions in mm				P	●
				M	○
				K	○
				N	-
				S	-
				H	-



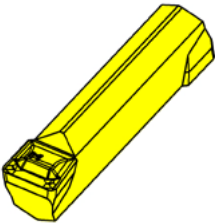
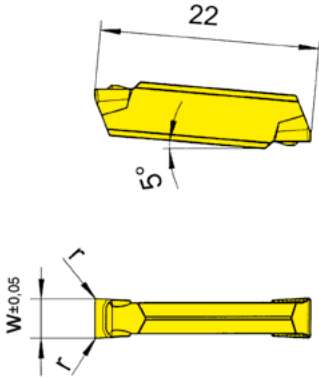
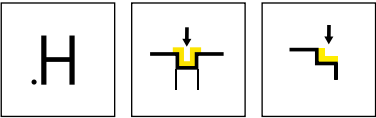
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		HP65	IG35	TI25
S224.0200.FY2	2	0.2	224018		▲	▲	▲
S224.0250.FY2	2.5	0.2	224028		▲	▲	▲
S224.0300.FY2	3	0.2	224038		▲	▲	▲
Dimensions in mm				P	●	●	●
				M	●	●	●
				K	●	●	-
				N	○	○	○
				S	●	○	-
				H	-	-	-





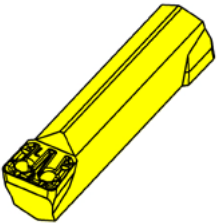
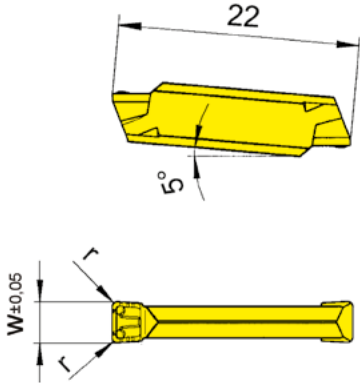
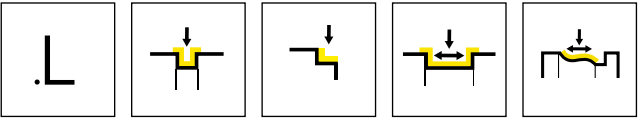
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	TF42
S224.0300.H4	3	0.4	224038	▲
S224.0400.H4	4	0.4	224048	▲
S224.0500.H6	5	0.6	224058	▲
S224.0600.H6	6	0.6	224068	▲
S224.0600.H8	6	0.8	224068	▲
				P ●
				M -
				K -
				N -
				S -
				H -

Dimensions in mm

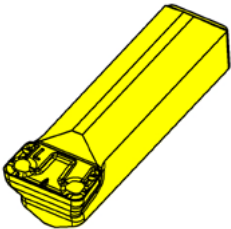
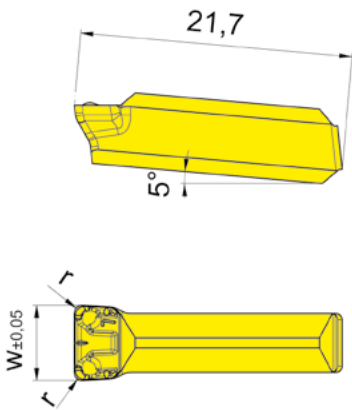
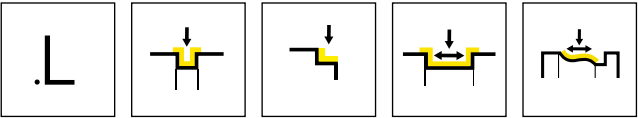


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	AS62	AS65	AS66	ASG6	IG66	TF42	TI22
S224.0300.L4	3	0.4	224038	▲	▲	▲	▲	▲		
S224.0400.L4	4	0.4	224048	▲		▲		▲	▲	▲
S224.0500.L4	5	0.4	224058	▲		▲		▲	▲	▲
S224.0500.L6	5	0.6	224058	▲		▲			▲	
S224.0600.L4	6	0.4	224068	▲					▲	▲
S224.0600.L6	6	0.6	224068	▲				▲	▲	▲
Dimensions in mm				P	●	●	●	●	●	●
				M	○	●	●	○	●	●
				K	○	○	○	○	●	-
				N	-	-	-	-	-	○
				S	-	-	-	○	-	-
				H	-	-	-	-	-	-



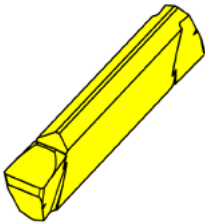
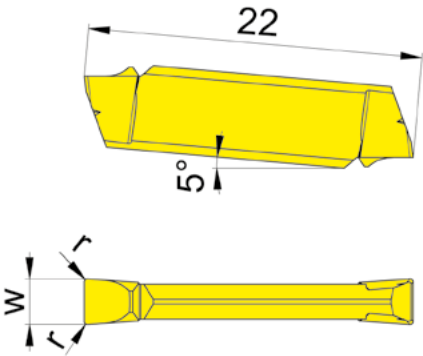
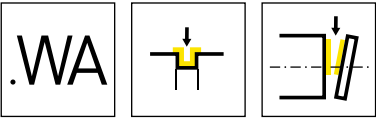


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		AS42	AS46
S124.0600.L6	6	0.6	224068		▲	▲
Dimensions in mm				P	●	○
				M	●	○
				K	●	●
				N	●	○
				S	●	○
				H	-	-



Coating grades

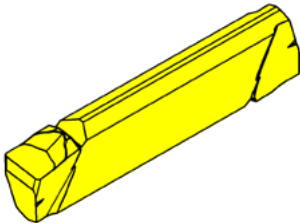
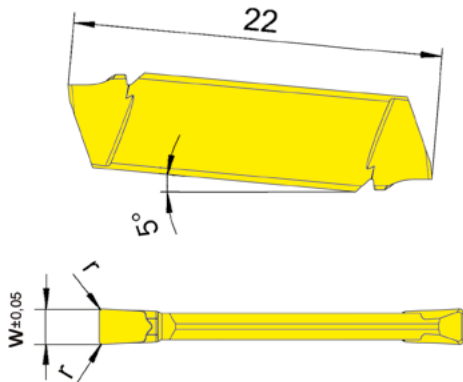
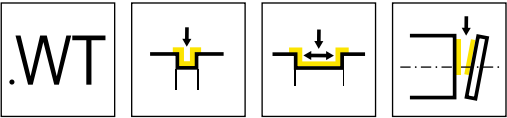
▲ In stock

Δ 2 weeks

Part number	w	r	HIS		K10	DD26
S224.0200.WA2	2	0.2	224018	▲	▲	▲
S224.0300.WA2	3	0.2	224038	▲	▲	▲
				P	●	-
				M	●	-
				K	-	-
				N	-	●
				S	●	o
				H	-	-

Dimensions in mm

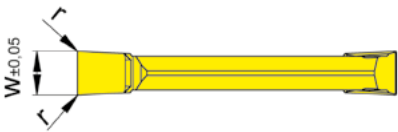
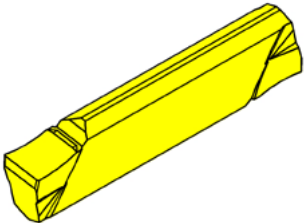
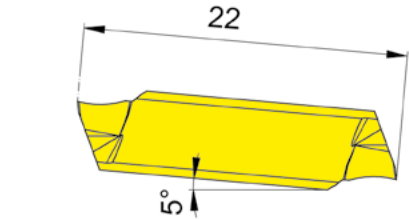
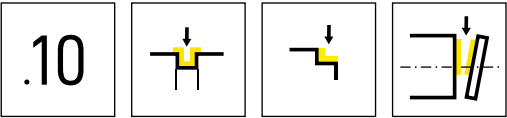




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	IG35	
S224.0200.WT2	2	0.2	224018	▲	
S224.0250.WT2	2.5	0.2	224028	▲	
S224.0300.WT2	3	0.2	224038	▲	
Dimensions in mm				P	●
				M	●
				K	●
				N	o
				S	o
				H	-



Coating grades

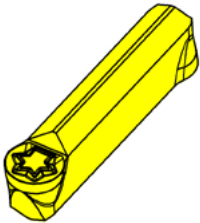
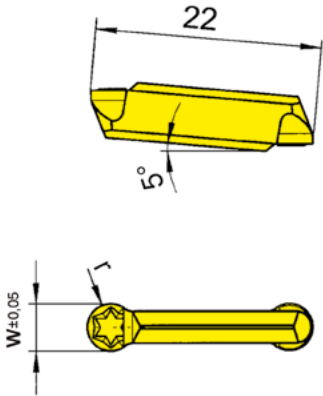
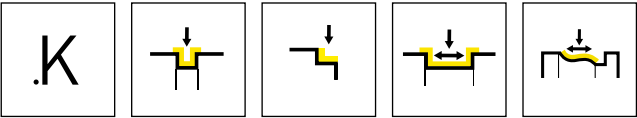
▲ In stock

Δ 2 weeks

Part number	w	r	HIS	EG35	
S224.0200.10	2	0.05	224018	▲	
S224.0250.10	2.5	0.1	224028	▲	
S224.0300.10	3	0.1	224038	▲	
				P	●
				M	●
				K	○
				N	-
				S	-
				H	-

Dimensions in mm

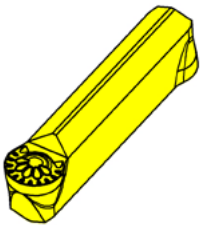
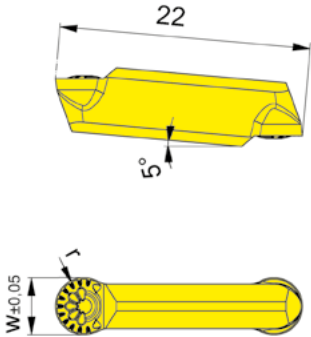
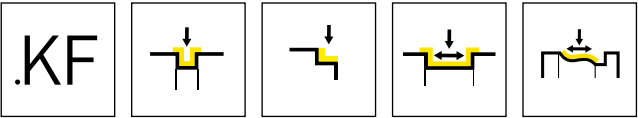




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS62	AS66	IG66	TF42	TN32	TN35
S224.0010.K2	2	1	224018		▲	▲	▲	▲		
S224.0015.K3	3	1.5	224038		▲	▲	▲	▲	▲	
S224.0020.K4	4	2	224048		▲	▲	▲	▲	▲	
S224.0025.K5	5	2.5	224058		▲	▲	▲	▲	▲	Δ
S224.0030.K6	6	3	224068		▲	▲				
Indexable inserts can be used in right and left hand toolholders.				P	●	●	●	●	●	●
Dimensions in mm				M	o	●	●	-	-	-
				K	o	o	●	-	●	●
				N	-	-	-	-	-	-
				S	-	-	o	-	-	-
				H	-	-	-	-	-	-



Coating grades

▲ In stock

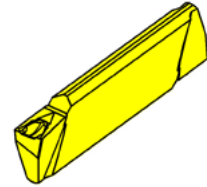
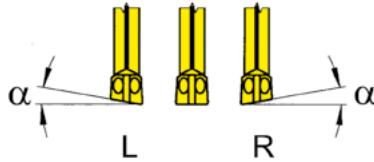
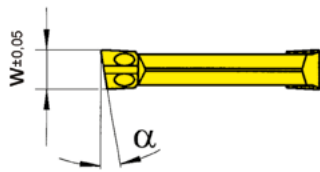
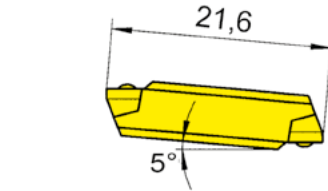
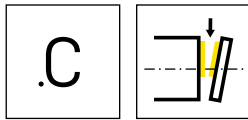
Δ 2 weeks

Part number	w	r	HIS		AS66	EG55	IG66
S224.0010.KF2	2	1	224018		▲	▲	▲
S224.0015.KF3	3	1.5	224038		▲		▲
S224.0020.KF4	4	2	224048		▲		▲
S224.0025.KF5	5	2.5	224058		▲		▲
S224.0030.KF6	6	3	224068		▲		▲
				P	●	●	●
				M	●	●	●
				K	o	o	●
				N	-	-	-
				S	-	-	o
				H	-	-	-

Indexable inserts can be used in right and left hand toolholders.

Dimensions in mm





Coating grades

R = right hand version shown

L = left hand version

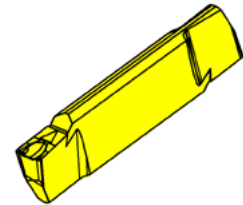
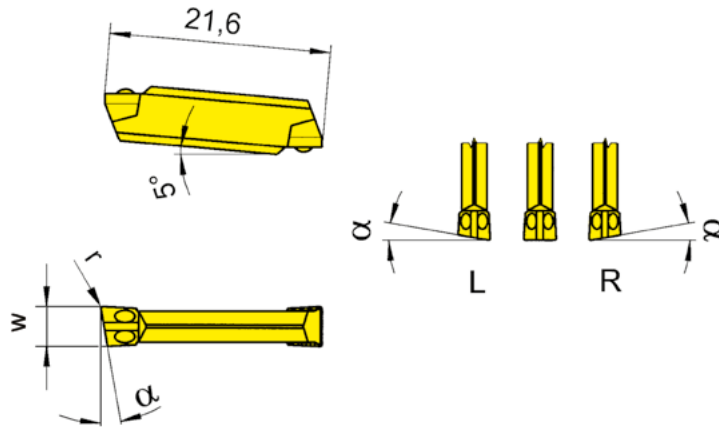
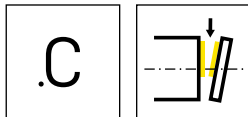
▲ In stock

Δ 2 weeks

Part number	w	α	HIS	TF45	TI25	TN35
RS224.0520.C0	2	5°	224018	▲		▲
RS224.0820.C0	2	8°	224018	▲	Δ	▲
RS224.1520.C0	2	15°	224018	▲		▲
RS224.0525.C0	2.5	5°	224028	▲	▲	▲
RS224.0825.C0	2.5	8°	224028		Δ	▲
RS224.0530.C0	3	5°	224038	▲	Δ	▲
RS224.0830.C0	3	8°	224038	▲		▲
LS224.0520.C0	2	5°	224018	▲		▲
LS224.0820.C0	2	8°	224018	▲	Δ	▲
LS224.1520.C0	2	15°	224018	▲		▲
LS224.0525.C0	2.5	5°	224028		Δ	▲
LS224.0825.C0	2.5	8°	224028	Δ	Δ	▲
LS224.0530.C0	3	5°	224038		Δ	▲
LS224.0830.C0	3	8°	224038	Δ		▲
S224.0020.C0	2	0°	224018	▲	▲	▲
S224.0025.C0	2.5	0°	224028	▲	▲	▲
S224.0030.C0	3	0°	224038	▲	▲	▲

Dimensions in mm

P	o	●	●
M	-	●	-
K	-	-	●
N	-	o	-
S	-	-	-
H	-	-	-



Coating grades

R = right hand version shown

L = left hand version

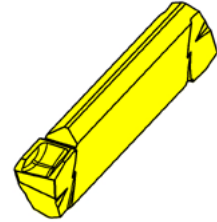
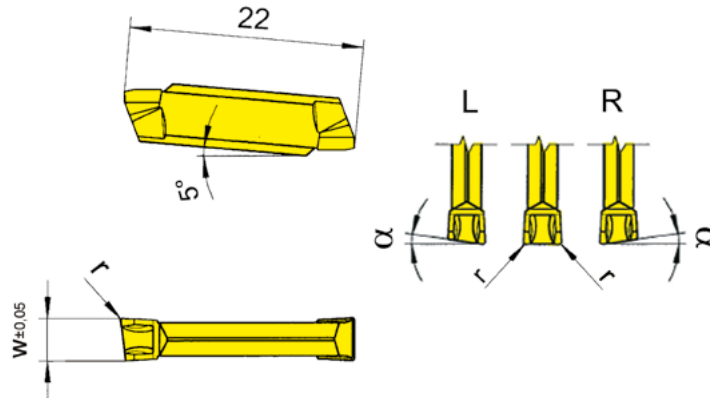
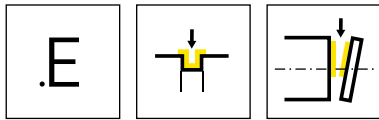
▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	TF45	TI25	TN35
RS224.0520.C1	2	0.15	5°	224018	▲		▲
RS224.0820.C1	2	0.15	8°	224018	▲		Δ
RS224.1520.C1	2	0.15	15°	224018	▲		▲
RS224.0525.C1	2.5	0.15	5°	224028	▲		▲
RS224.0825.C1	2.5	0.15	8°	224028	▲		Δ
RS224.0530.C1	3	0.15	5°	224038	▲		▲
RS224.0830.C1	3	0.15	8°	224038	▲		▲
LS224.0520.C1	2	0.15	5°	224018	▲		▲
LS224.0820.C1	2	0.15	8°	224018	Δ		
LS224.1520.C1	2	0.15	15°	224018	Δ		▲
LS224.0525.C1	2.5	0.15	5°	224028	▲		Δ
LS224.0825.C1	2.5	0.15	8°	224028	▲		Δ
LS224.0530.C1	3	0.15	5°	224038	Δ		▲
LS224.0830.C1	3	0.15	8°	224038	▲		▲
S224.0020.C1	2	0.15	0°	224018	▲	▲	▲
S224.0025.C1	2.5	0.15	0°	224028	▲	▲	▲
S224.0030.C1	3	0.15	0°	224038	▲	▲	▲

Dimensions in mm

P	o	•	•
M	-	•	-
K	-	-	•
N	-	o	-
S	-	-	-
H	-	-	-



Coating grades

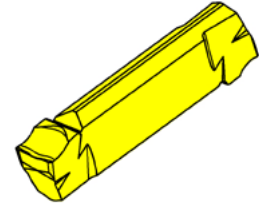
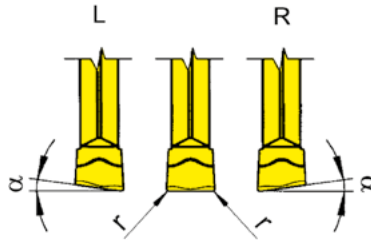
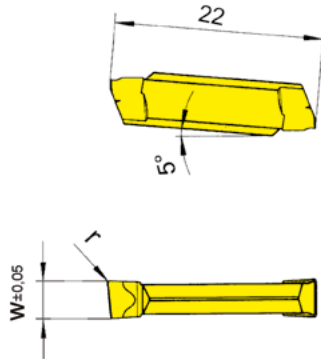
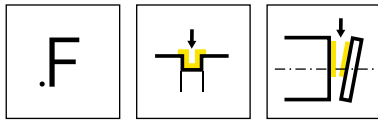
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	AS62	TF43	TF45	TN35
RS224.0520.E2	2	0.2	5°	224018	▲	Δ		
RS224.0525.E2	2.5	0.2	5°	224028	▲	Δ	Δ	
RS224.0530.E2	3	0.2	5°	224038	▲	▲	▲	
LS224.0520.E2	2	0.2	5°	224018	▲	Δ	Δ	
LS224.0525.E2	2.5	0.2	5°	224028	▲	Δ	Δ	
LS224.0530.E2	3	0.2	5°	224038	▲		▲	
S224.0200.E2	2	0.2	0°	224018	▲	▲	▲	
S224.0250.E2	2.5	0.2	0°	224028	▲	▲	▲	
S224.0300.E2	3	0.2	0°	224038	▲	▲	▲	Δ
S224.0300.E4	3	0.4	0°	224038	▲	▲	▲	Δ
S224.0400.E2	4	0.2	0°	224048	▲	Δ	▲	Δ
S224.0400.E4	4	0.4	0°	224048	▲	Δ	▲	Δ
Dimensions in mm					P	●	●	●
					M	○	-	-
					K	○	-	●
					N	-	-	-
					S	-	-	-
					H	-	-	-

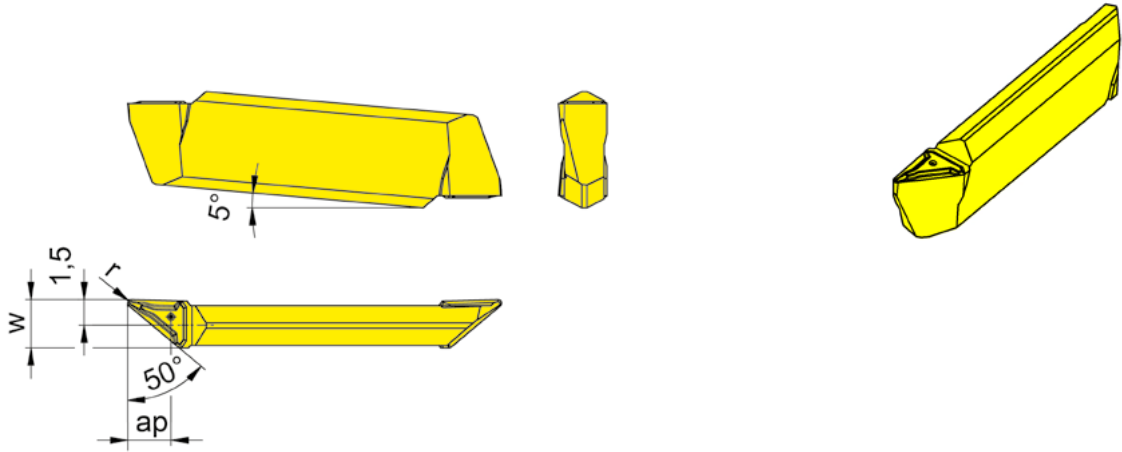
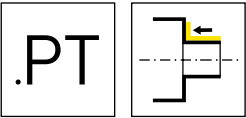


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS		TF43	TF45	TF46	TI22	TI25
RS224.0520.F2	2	0.2	5°	224018			▲	▲		
RS224.0525.F2	2.5	0.2	5°	224028		▲	▲			
RS224.0530.F2	3	0.2	5°	224038		▲	▲		▲	
LS224.0520.F2	2	0.2	5°	224018			▲	Δ		
LS224.0525.F2	2.5	0.2	5°	224028			Δ			
LS224.0530.F2	3	0.2	5°	224038		Δ	▲			
S224.0200.F2	2	0.2	0°	224018		▲	▲	▲	▲	▲
S224.0250.F2	2.5	0.2	0°	224028		▲	▲	▲	▲	Δ
S224.0300.F2	3	0.2	0°	224038		▲	▲		Δ	▲
S224.0400.F2	4	0.2	0°	224048			▲		▲	
Dimensions in mm						P	●	○	○	●
						M	-	-	-	●
						K	-	-	-	-
						N	-	-	-	○
						S	-	-	-	-
						H	-	-	-	-



R = right hand version shown

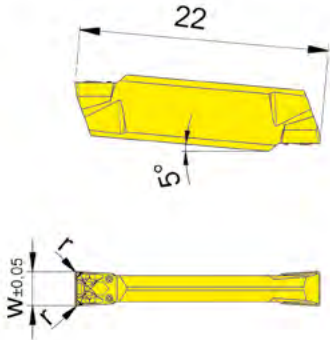
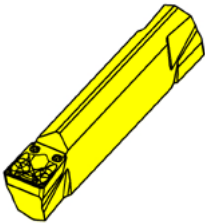
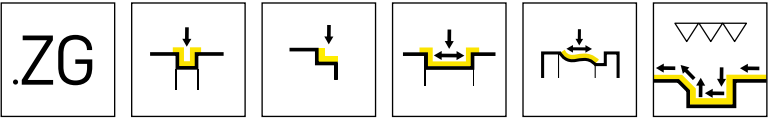
L = left hand version

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a _p	HIS		
					EG55	IG35
RS224.5028.PT2	2.8	0.2	2.5	224038	▲	▲
RS224.5029.PT4	2.9	0.4	2.5	224038	▲	▲
LS224.5028.PT2	2.8	0.2	2.5	224038	▲	▲
LS224.5029.PT4	2.9	0.4	2.5	224038	▲	▲
For toolholder H224.1...S.6.03.IK					P	•
Dimensions in mm					M	•
					K	o
					N	-
					S	-
					H	-



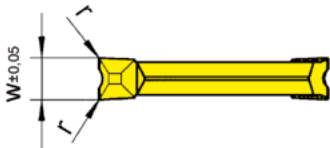
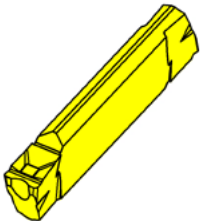
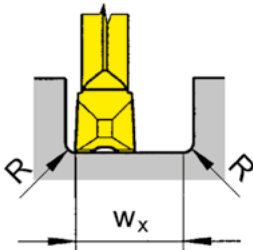
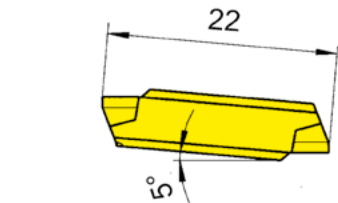
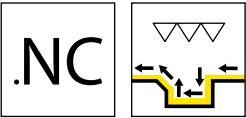
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	ALXT
S224.0300.ZG2	3	0.2	224038	▲
S224.0400.ZG4	4	0.4	224048	▲
This insert is designed for finishing				P ●
Dimensions in mm				M o
				K -
				N -
				S -
				H -



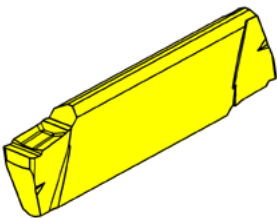
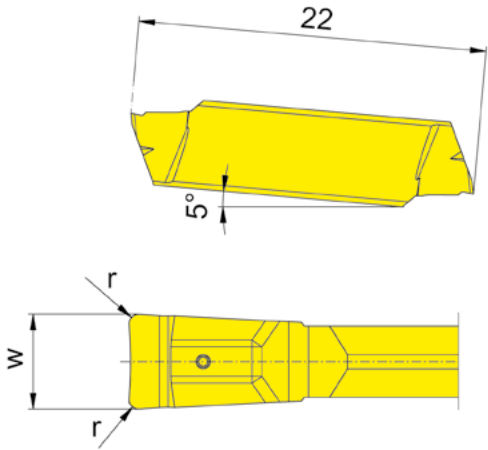
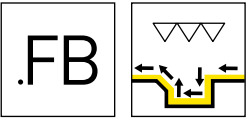


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	w _x	HIS		Ti22	Ti25	Ti26
S224.NC25.D2	2.5	0.2	3.6	224028		Δ	▲	▲
S224.NC30.D2	3	0.2	4.5	224038		▲	▲	▲
This insert is designed for finishing					P	●	●	●
wx = width of groove - R(right) - R(left) Dimensions in mm					M	●	●	○
					K	-	-	●
					N	○	○	●
					S	-	-	○
					H	-	-	-



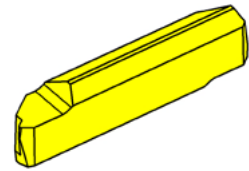
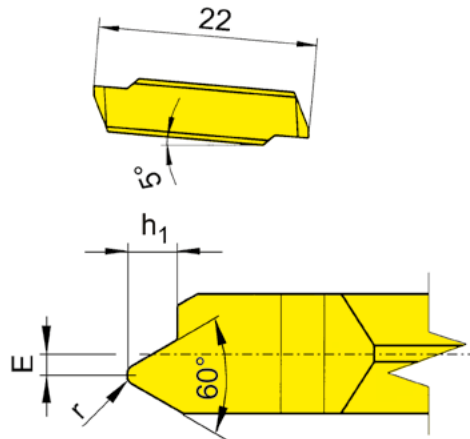
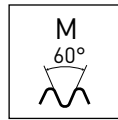
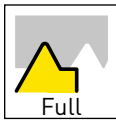
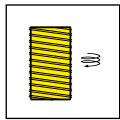
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	H20
S224.FB20.02	2	0.2	224018	▲
S224.FB30.02	3	0.2	224038	▲
This insert is designed for finishing				P ●
Dimensions in mm				M o
				K -
				N -
				S -
				H -





Coating grades

R = right hand version shown

L = left hand version

▲ In stock

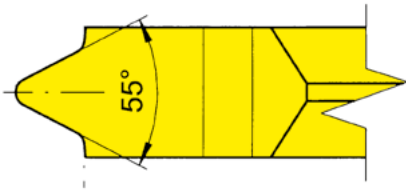
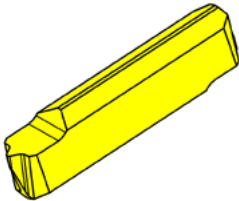
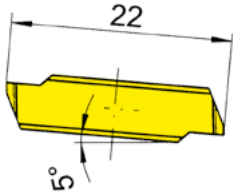
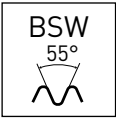
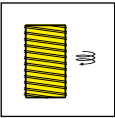
Δ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	EG55	TF45
RS224.0305.02	0.5	50	1	0.07	0.31	224038	▲	▲
RS224.0407.02	0.75	33	0.9	0.11	0.46	224038	▲	▲
RS224.0610.02	1	25	0.8	0.14	0.61	224038	▲	▲
RS224.0712.02	1.25	20	0.7	0.15	0.77	224038	▲	▲
RS224.0915.02	1.5	16	0.5	0.2	0.92	224038	▲	▲
RS224.1017.02	1.75	14	0.4	0.25	1.07	224038	▲	▲
RS224.1220.02	2	12	0.3	0.25	1.23	224038	▲	▲
LS224.0305.02	0.5	50	1	0.07	0.31	224038	Δ	▲
LS224.0407.02	0.75	33	0.9	0.11	0.46	224038	▲	▲
LS224.0610.02	1	25	0.8	0.14	0.61	224038	▲	▲
LS224.0712.02	1.25	20	0.7	0.15	0.77	224038	▲	▲
LS224.0915.02	1.5	16	0.5	0.2	0.92	224038	▲	▲
LS224.1017.02	1.75	14	0.4	0.25	1.07	224038	Δ	▲
LS224.1220.02	2	12	0.3	0.25	1.23	224038	Δ	▲

Particularly suitable for threading behind a shoulder

Dimensions in mm

P	●	o
M	●	-
K	o	-
N	-	-
S	-	-
H	-	-



Coating grades

▲ In stock

Δ 2 weeks

Part number	TPI	HIS		EG55	TA45
NS224.5511.02	11	224038		▲	▲
NS224.5514.02	14	224038		▲	▲
NS224.5519.02	19	224038		▲	▲
NS224.5528.02	28	224038		▲	▲
Particularly suitable for threading behind a shoulder			P	●	o
Dimensions in mm			M	●	o
			K	o	-
			N	-	-
			S	-	-
			H	-	-





H

SYSTEM 229 / 259

INTERNAL/EXTERNAL GROOVING, SIDE TURNING AND THREADING, EXTERNAL FACE GROOVING

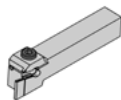
.098"-.393" , 2.5-10mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

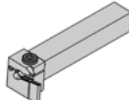
HOLDERS

Square Shank - Inch



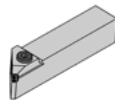
Page 257-268

Groove, Turn, Part Off
Inch Shank



Page 269-270

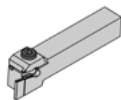
Grooving and Turning
Inch Shank



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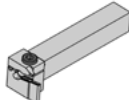
Corner Cutting
Inch Shank

Square Shank - Metric



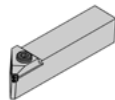
Page 271-279

Groove, Turn, Part Off
Metric Shank



Page 280

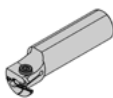
Grooving and Turning
Metric Shank



Page 282

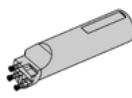
Corner Cutting
Metric Shank

Round Shank



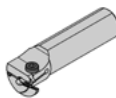
Page 283-287

Grooving and Turning
Inch Shank



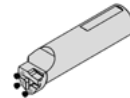
Page 295

Grooving and Turning
Inch Shank



Page 288-294

Grooving and Turning
Metric Shank



Page 296

Grooving and Turning
Metric Shank



Page 297

Grooving and Turning
Cassette



Page 298

Grooving and Turning
Cartridge



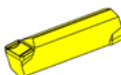
Page 299

Grooving and Turning
Cassette

H

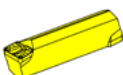
INSERTS

Grooving, Turning, Parting Off



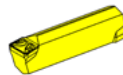
Page 300

.3 Chipbreaker
Groove, Turn, Part Off



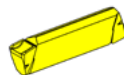
Page 301

.5 Chipbreaker
Grooving and Turning



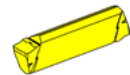
Page 302

.A Chipbreaker
Grooving and Turning



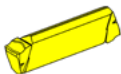
Page 303

.E Chipbreaker
Grooving and Part Off



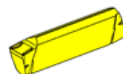
Page 304

.F Chipbreaker
Grooving and Part Off



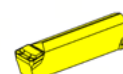
Page 305

.FY Chipbreaker
Grooving and Part Off



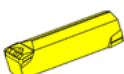
Page 306

.3V Chipbreaker
Grooving and Part Off



Page 307

.H Chipbreaker
Grooving



Page 308

.HR Chipbreaker
Grooving

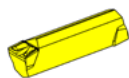


Page 309-310

.L Chipbreaker
Grooving and Turning

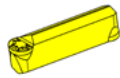
INSERTS

Grooving, Turning, Parting Off



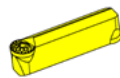
Page 311

.N Chipbreaker
Groove, Turn, Part Off



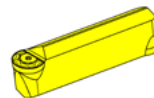
Page 312

.K Chipbreaker
Grooving and Turning



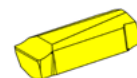
Page 313

.KF Chipbreaker
Grooving and Turning



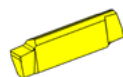
Page 314

.KR Chipbreaker
Grooving and Turning



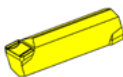
Page 315

.10 Geometry
Grooving and Part Off



Page 316

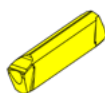
.20 Geometry
Grooving and Turning



Page 317

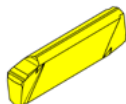
.3 Chipbreaker
Groove, Turn, Part Off

Finishing



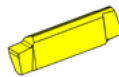
Page 318

.NC Geometry
Finishing



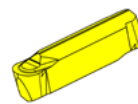
Page 319

.FB Geometry
Finishing



Page 320

Finishing

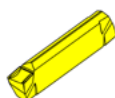


Page 321

Corner Cutting
and Profiling

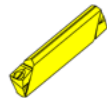
Corner Cut and Profiling

Angled Cutting Edge



Page 322

.3 Chipbreaker
Groove, Turn, Part Off



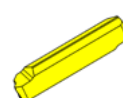
Page 323-324

.C Chipbreaker
Parting Off



Page 325

Partial Profile
60° Threading



Page 326

Full Profile
60° Threading



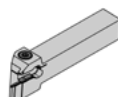
Page 327

Full Profile
55° BSW Threading

Threading

HOLDERS, INSERTS

Sub-System 259



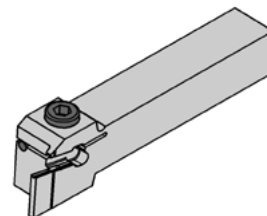
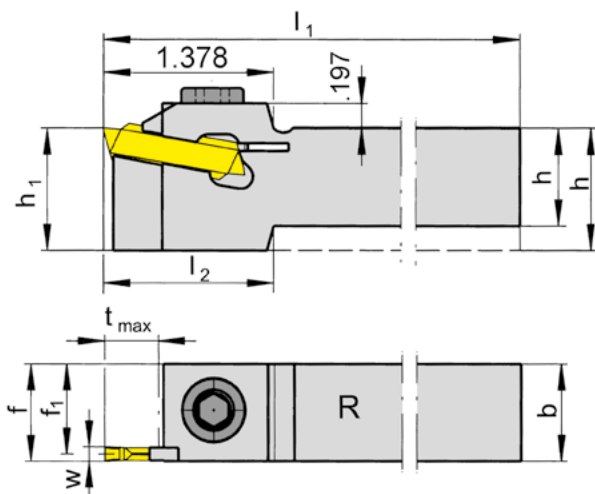
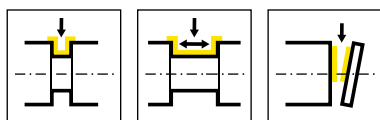
Page 328

H259
Groove and Part Off



Page 329

.M0 Geometry
Groove, Turn, Part Off



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU210.0750.02	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.433	229020
RU210.1000.02	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.433	229020
RU210.0625.03	.625	.625	6.004	1.772	1.000	.567	f ₁ +w/2	.433	229030
RU210.0750.03	.750	.750	6.004	1.378	.984	.693	f ₁ +w/2	.433	229030
RU210.1000.03	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.433	229030
RU210.1250.03	1.250	1.000	6.693	-	1.250	.943	f ₁ +w/2	.433	229030
RU210.0750.04	.750	.750	6.004	1.378	1.000	.659	f ₁ +w/2	.433	229040
RU210.1000.04	1.000	1.000	6.004	-	1.000	.909	f ₁ +w/2	.433	229040
RU210.1250.04	1.250	1.000	6.693	-	1.250	.909	f ₁ +w/2	.433	229040
RU210.0750.05	.750	.750	6.004	1.378	1.000	.640	f ₁ +w/2	.433	229050 • 229051
RU210.1000.05	1.000	1.000	6.004	-	1.000	.890	f ₁ +w/2	.433	229050 • 229051
RU210.1250.05	1.250	1.000	6.693	-	1.250	.890	f ₁ +w/2	.433	229050 • 229051
LU210.0750.02	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.433	229020
LU210.0625.03	.625	.625	6.004	1.772	1.000	.567	f ₁ +w/2	.433	229030
LU210.0750.03	.750	.750	6.004	1.378	.984	.693	f ₁ +w/2	.433	229030
LU210.1000.03	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.433	229030
LU210.1250.03	1.250	1.000	6.693	-	1.250	.943	f ₁ +w/2	.433	229030
LU210.0750.04	.750	.750	6.004	1.378	1.000	.659	f ₁ +w/2	.433	229040
LU210.1000.04	1.000	1.000	6.004	-	1.000	.909	f ₁ +w/2	.433	229040
LU210.1250.04	1.250	1.000	6.693	-	1.250	.909	f ₁ +w/2	.433	229040
LU210.0750.05	.750	.750	6.004	1.378	1.000	.640	f ₁ +w/2	.433	229050 • 229051
LU210.1000.05	1.000	1.000	6.004	-	1.000	.890	f ₁ +w/2	.433	229050 • 229051
LU210.1250.05	1.250	1.000	6.693	-	1.250	.890	f ₁ +w/2	.433	229050 • 229051

For the (w) dimension, see inserts

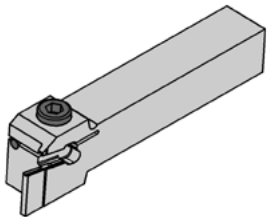
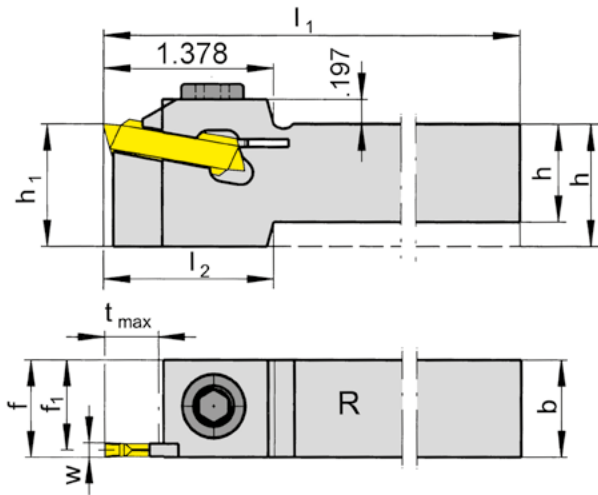
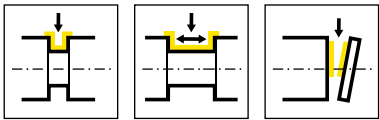
Dimensions in inch

R/L 210...02 has a maximum cutting depth of Ø 5.906"



Spare Parts

Grooving toolholder	Clamping Screw	Torque Value
R/LU210...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	f	t _{max}	l ₂	HWS
RU210.0750.07	.750	.750	6.004	.984	.600	f ₁ +w/2	.433	1.378	229070 • 229071
RU210.1000.07	1.000	1.000	6.004	1.000	.848	f ₁ +w/2	.433	-	229070 • 229071
RU210.1250.07	1.250	1.000	6.693	1.250	.848	f ₁ +w/2	.433	-	229070 • 229071
LU210.0750.07	.750	.750	6.004	.984	.600	f ₁ +w/2	.433	1.378	229070 • 229071
LU210.1000.07	1.000	1.000	6.004	1.000	.848	f ₁ +w/2	.433	-	229070 • 229071

For the (w) dimension, see inserts

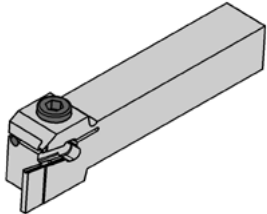
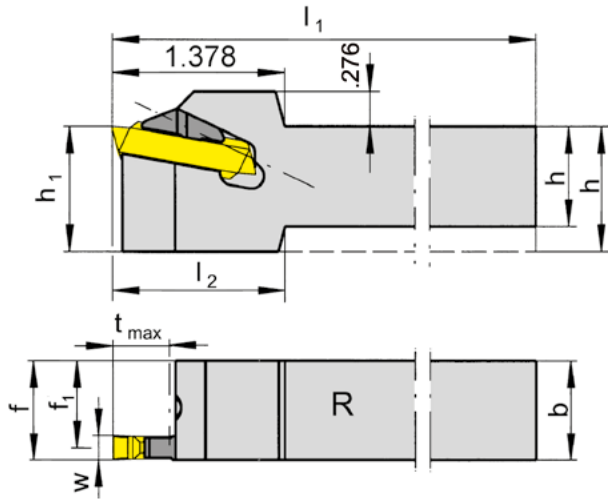
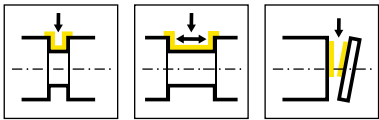
Dimensions in inch



H

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU210...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU210.0750.09	.750	.750	6.004	1.378	1.000	.561	f ₁ +w/2	.433	229090 • 229091
RU210.1000.09	1.000	1.000	6.004	1.378	1.000	.811	f ₁ +w/2	.433	229090 • 229091
RU210.1250.09	1.250	1.000	6.693	-	1.250	.811	f ₁ +w/2	.433	229090 • 229091
LU210.0750.09	.750	.750	6.004	1.378	1.000	.561	f ₁ +w/2	.433	229090 • 229091
LU210.1000.09	1.000	1.000	6.004	1.378	1.000	.811	f ₁ +w/2	.433	229090 • 229091
LU210.1250.09	1.250	1.000	6.693	-	1.250	.811	f ₁ +w/2	.433	229090 • 229091

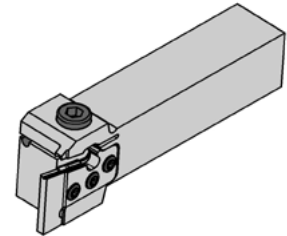
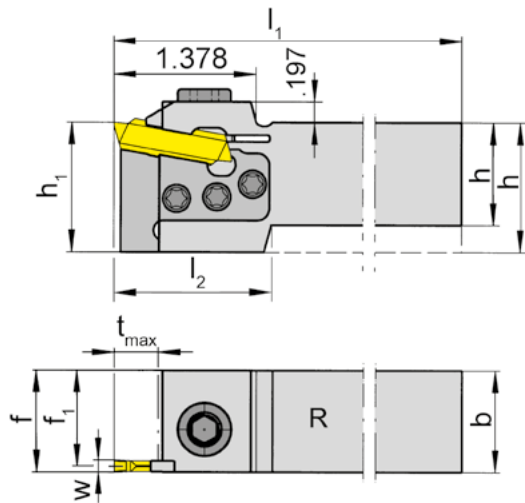
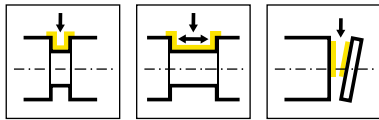
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
RU210...	R218.9	T15PQ	5 Nm
LU210...	L218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU210.1000.K3	1.000	1.000	6.004	1.378	1.250	.943	$f_1 + w/2$	.433	229030
RU210.1000.K4	1.000	1.000	6.004	1.378	1.260	.909	$f_1 + w/2$	.433	229040
RU210.1000.K5	1.000	1.000	6.004	1.378	1.260	.890	$f_1 + w/2$	.433	229050 • 229051
LU210.1000.K3	1.000	1.000	6.004	1.378	1.250	.943	$f_1 + w/2$	.433	229030
LU210.1000.K4	1.000	1.000	6.004	1.378	1.260	.909	$f_1 + w/2$	.433	229040
LU210.1000.K5	1.000	1.000	6.004	1.378	1.260	.890	$f_1 + w/2$	.433	229050 • 229051

For the (w) dimension, see inserts

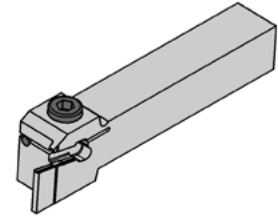
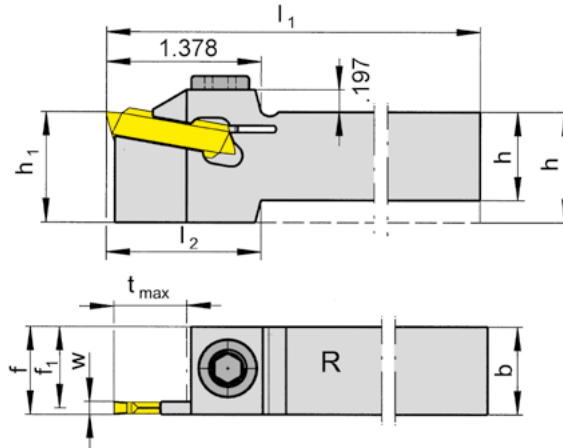
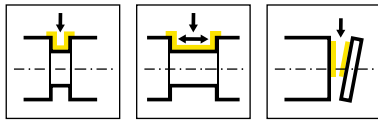
Dimensions in inch



H

Spare Parts

Toolholder	Clamping Screw	Cassette	TORX PLUS® Wrench	Clamping element	Torque Value
R/LU210.1000.K3	030.0518.T20P	NK210.32.03	T20PQ	-	7 Nm
R/LU210.1000.K4	030.0518.T20P	NK210.32.04	T20PQ	-	7 Nm
RU210.1000.K5	030.0518.T20P	NK210.32.05	T20PQ	R218.5.7	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU218.0750.02	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.709	229020
RU218.1000.02	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.709	229020
RU218.0625.03	.625	.625	6.004	1.772	1.000	.567	f ₁ +w/2	.709	229030
RU218.0750.03	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.709	229030
RU218.1000.03	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.709	229030
RU218.1250.03	1.250	1.000	6.693	-	1.250	.943	f ₁ +w/2	.709	229030
RU218.0750.04	.750	.750	6.004	1.378	1.000	.659	f ₁ +w/2	.709	229040
RU218.1000.04	1.000	1.000	6.004	-	1.000	.909	f ₁ +w/2	.709	229040
RU218.1250.04	1.250	1.250	6.004	-	1.250	1.159	f ₁ +w/2	.709	229040
RU218.0750.05	.750	.750	6.004	1.378	1.000	.640	f ₁ +w/2	.709	229050 • 229051
RU218.1000.05	1.000	1.000	6.004	-	1.000	.890	f ₁ +w/2	.709	229050 • 229051
RU218.1250.05	1.250	1.000	6.693	-	1.250	.890	f ₁ +w/2	.709	229050 • 229051
LU218.0750.02	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.709	229020
LU218.1000.02	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.709	229020
LU218.0625.03	.625	.625	6.004	1.772	1.000	.567	f ₁ +w/2	.709	229030
LU218.0750.03	.750	.750	6.004	1.378	1.000	.693	f ₁ +w/2	.709	229030
LU218.1000.03	1.000	1.000	6.004	-	1.000	.943	f ₁ +w/2	.709	229030
LU218.1250.03	1.250	1.000	6.693	-	1.250	.943	f ₁ +w/2	.709	229030
LU218.0750.04	.750	.750	6.004	1.378	1.000	.659	f ₁ +w/2	.709	229040
LU218.1000.04	1.000	1.000	6.004	-	1.000	.909	f ₁ +w/2	.709	229040
LU218.1250.04	1.250	1.250	6.004	-	1.250	1.159	f ₁ +w/2	.709	229040
LU218.0750.05	.750	.750	6.004	1.378	1.000	.640	f ₁ +w/2	.709	229050 • 229051
LU218.1000.05	1.000	1.000	6.004	-	1.000	.890	f ₁ +w/2	.709	229050 • 229051
LU218.1250.05	1.250	1.000	6.693	-	1.250	.890	f ₁ +w/2	.709	229050 • 229051

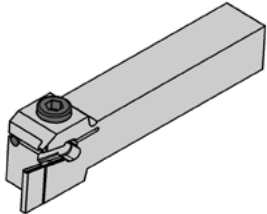
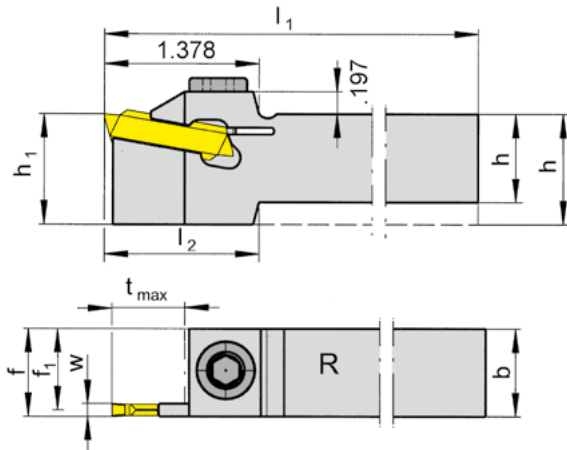
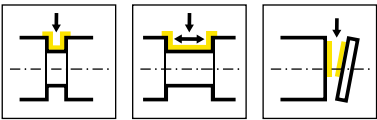
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU218...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU218.0750.07	.750	.750	6.004	1.378	.984	.600	f ₁ +w/2	.709	229070 • 229071
RU218.1000.07	1.000	1.000	6.004	-	1.000	.848	f ₁ +w/2	.709	229070 • 229071
RU218.1250.07	1.250	1.000	6.693	-	1.250	.850	f ₁ +w/2	.709	229070 • 229071
LU218.0750.07	.750	.750	6.004	1.378	.984	.600	f ₁ +w/2	.709	229070 • 229071
LU218.1000.07	1.000	1.000	6.004	-	1.000	.848	f ₁ +w/2	.709	229070 • 229071
LU218.1250.07	1.250	1.000	6.693	-	1.250	.850	f ₁ +w/2	.709	229070 • 229071

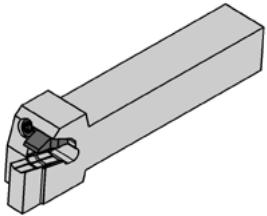
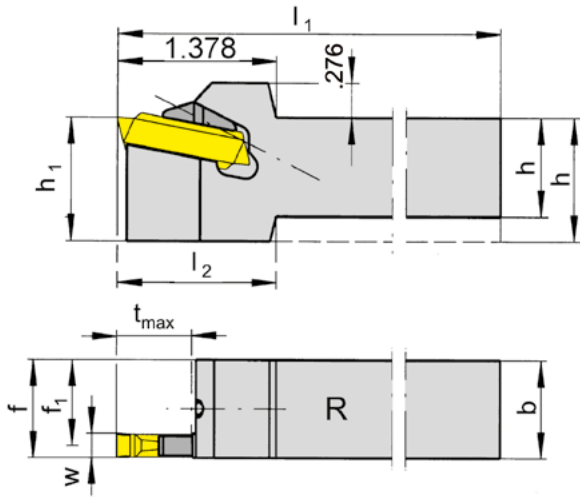
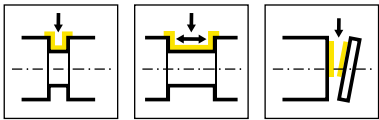
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU218...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	f	t _{max}	HWS
RU218.0750.09	.750	.750	6.004	1.000	.561	f ₁ +w/2	.709	229090 • 229091
RU218.1000.09	1.000	1.000	6.004	1.000	.811	f ₁ +w/2	.709	229090 • 229091
RU218.1250.09	1.250	1.000	6.693	1.250	.811	f ₁ +w/2	.709	229090 • 229091
LU218.0750.09	.750	.750	6.004	1.000	.561	f ₁ +w/2	.709	229090 • 229091
LU218.1000.09	1.000	1.000	6.004	1.000	.811	f ₁ +w/2	.709	229090 • 229091
LU218.1250.09	1.250	1.000	6.693	1.250	.811	f ₁ +w/2	.709	229090 • 229091

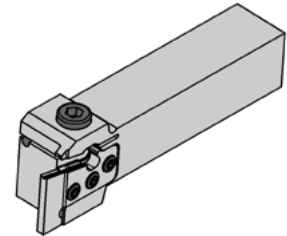
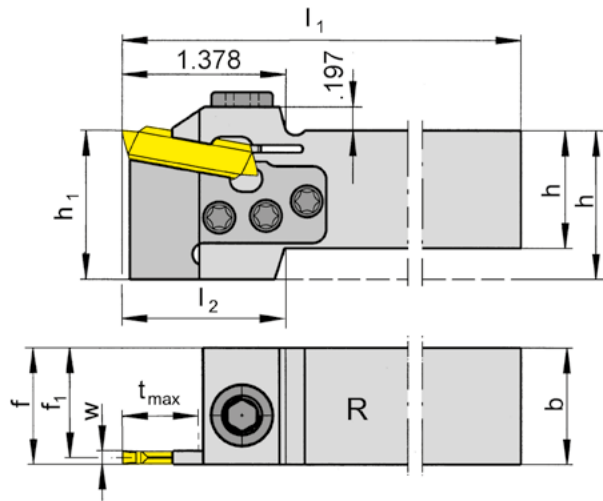
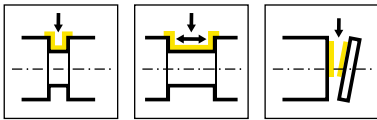
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
RU218...	R218.9	T15PQ	5 Nm
LU218...	L218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU218.1000.K3	1.000		6.004	1.378	1.260	.943	$f_1+w/2$	.709	229030
RU218.1250.K3	1.250		6.693	-	1.260	.943	$f_1+w/2$	.709	229030
RU218.1000.K4	1.000		6.004	1.378	1.260	.909	$f_1+w/2$	.709	229040
RU218.1250.K4	1.250		6.693	-	1.250	.909	$f_1+w/2$	.709	229040
RU218.1000.K5	1.000		6.004	1.378	1.260	.890	$f_1+w/2$	.709	229050 • 229051
RU218.1000.K7	1.000		6.004	1.378	1.260	.850	$f_1+w/2$	.709	229070 • 229071
LU218.1000.K3	1.000		6.004	1.378	1.260	.943	$f_1+w/2$	.709	229030
LU218.1250.K3	1.250		6.693	1.378	1.260	.943	$f_1+w/2$	.709	229030
LU218.1000.K4	1.000		6.004	1.378	1.260	.909	$f_1+w/2$	.709	229040
LU218.1250.K4	1.250		6.693	-	1.250	.909	$f_1+w/2$	.709	229040

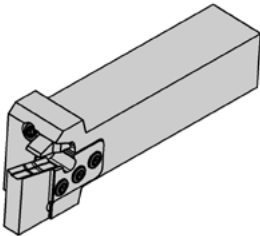
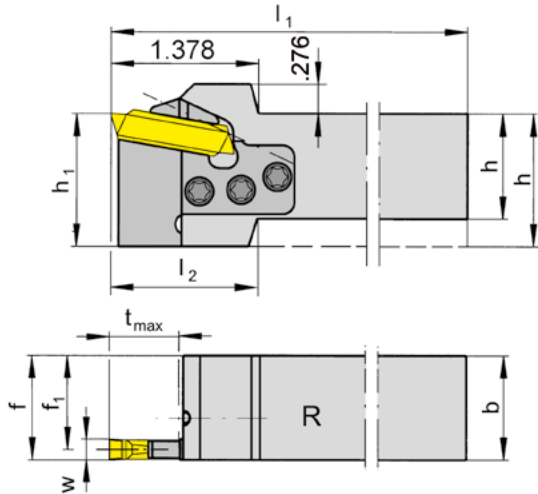
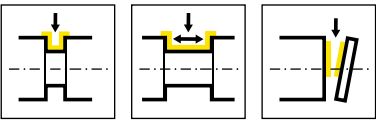
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Cassette	TORX PLUS® Wrench	Clamping element	Torque Value
R/LU218....	030.0518.T20P	NK218.32.03	T20PQ		7 Nm
R/LU218....	030.0518.T20P	NK218.32.04	T20PQ		7 Nm
RU218.1000.K5	030.0518.T20P		T20PQ	R218.5.7	7 Nm
RU218.1000.K7	030.0518.T20P	NK218.32.07	T20PQ		7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	f	t _{max}	HWS
LU218.1250.K9	1.250	1.000	6.693	1.250	.811	f ₁ +w/2	.709	229090 • 229091

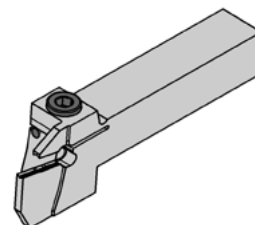
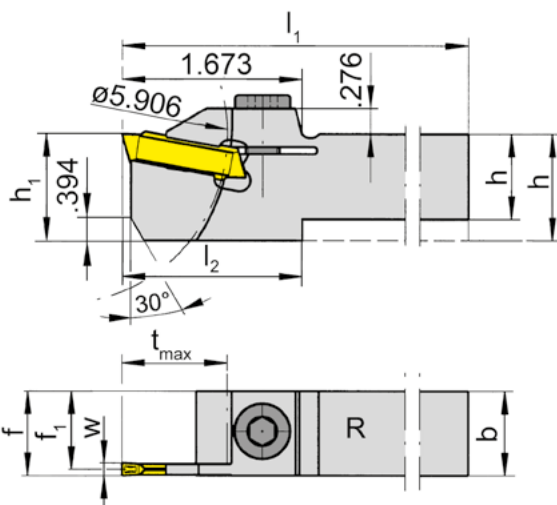
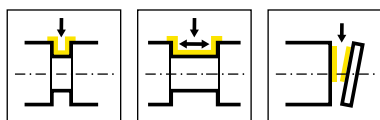
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Cassette	Clamping element	TORX PLUS® Wrench	Torque Value
LU218.1250.K9	030.0518.T20P	NK218.32.09	L218.9	T20PQ	7 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU226.0625.03	.625	.625	6.004	2.000	1.250	.568	$f_1+w/2$	1.000	229030
RU226.0750.03	.750	.750	6.004	1.673	1.250	.693	$f_1+w/2$	1.000	229030
RU226.1000.03	1.000	1.000	6.004	1.673	1.250	.943	$f_1+w/2$	1.000	229030
RU226.1250.03	1.250	1.000	6.693	-	1.250	.943	$f_1+w/2$	1.000	229030
RU226.0625.04	.625	.625	6.004	2.000	1.250	.534	$f_1+w/2$	1.000	229040
RU226.0750.04	.750	.750	6.004	1.673	1.250	.659	$f_1+w/2$	1.000	229040
RU226.1000.04	1.000	1.000	6.004	1.673	1.260	.909	$f_1+w/2$	.984	229040
RU226.1250.04	1.250	1.000	6.693	-	1.250	.909	$f_1+w/2$	1.000	229040
RU226.0750.05	.750	.750	6.004	1.673	1.260	.640	$f_1+w/2$	.984	229050 • 229051
RU226.1000.05	1.000	1.000	6.004	1.673	1.250	.890	$f_1+w/2$	1.000	229050 • 229051
RU226.1250.05	1.250	1.000	6.693	-	1.250	.890	$f_1+w/2$	1.000	229050 • 229051
LU226.0625.03	.625	.625	6.004	2.000	1.250	.568	$f_1+w/2$	1.000	229030
LU226.0750.03	.750	.750	6.004	1.673	1.250	.693	$f_1+w/2$	1.000	229030
LU226.1000.03	1.000	1.000	6.004	1.673	1.250	.943	$f_1+w/2$	1.000	229030
LU226.1250.03	1.250	1.000	6.693	-	1.250	.943	$f_1+w/2$	1.000	229030
LU226.0625.04	.625	.625	6.004	2.000	1.250	.534	$f_1+w/2$	1.000	229040
LU226.0750.04	.750	.750	6.004	1.673	1.250	.659	$f_1+w/2$	1.000	229040
LU226.1000.04	1.000	1.000	6.004	1.673	1.260	.909	$f_1+w/2$	.984	229040
LU226.1250.04	1.250	1.000	6.693	-	1.250	.909	$f_1+w/2$	1.000	229040
LU226.0750.05	.750	.750	6.004	1.673	1.260	.640	$f_1+w/2$	.984	229050 • 229051
LU226.1000.05	1.000	1.000	6.004	1.673	1.250	.890	$f_1+w/2$	1.000	229050 • 229051
LU226.1250.05	1.250	1.000	6.693	-	1.250	.890	$f_1+w/2$	.984	229050 • 229051

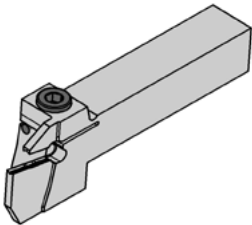
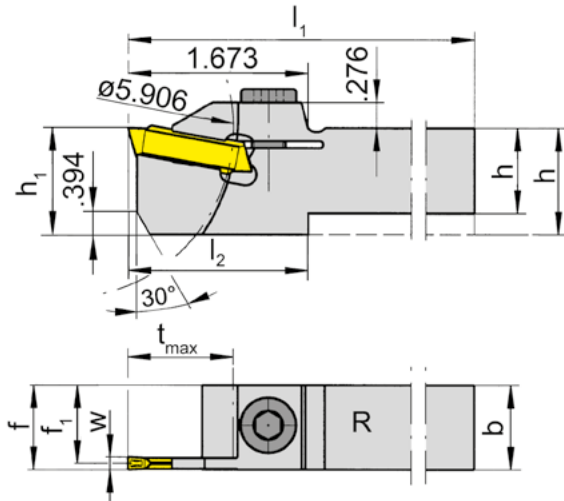
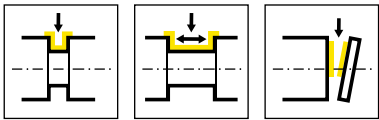
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU226...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU226.1000.07	1.000		6.004	1.673	1.250	.850	f ₁ +w/2	1.000	229070 • 229071
RU226.1250.07	1.250		6.693	-	1.250	.850	f ₁ +w/2	1.000	229070 • 229071
LU226.1000.07	1.000		6.004	1.673	1.250	.850	f ₁ +w/2	1.000	229070 • 229071
LU226.1250.07	1.250		6.693	-	1.250	.850	f ₁ +w/2	1.000	229070 • 229071

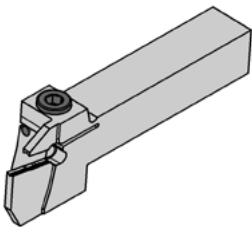
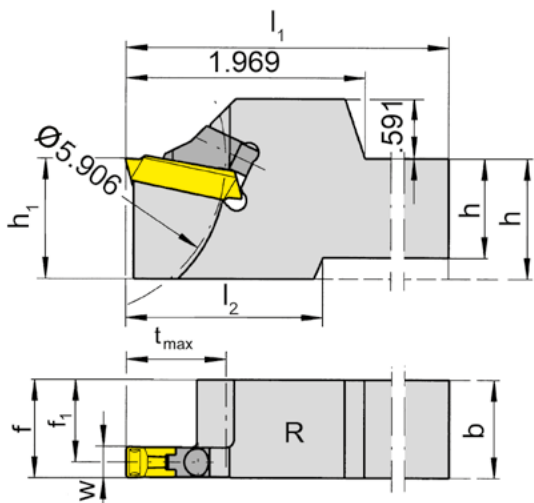
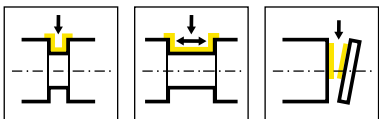
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU226...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU226.1000.09	1.000		6.004	1.969	1.250	.811	f ₁ +w/2	1.000	229090 • 229091
RU226.1250.09	1.250		6.693	-	1.250	.811	f ₁ +w/2	1.000	229090 • 229091
LU226.1000.09	1.000		6.004	1.969	1.250	.811	f ₁ +w/2	1.000	229090 • 229091
LU226.1250.09	1.250		6.693	-	1.250	.811	f ₁ +w/2	1.000	229090 • 229091

For the (w) dimension, see inserts

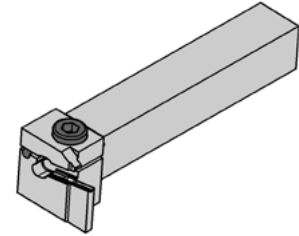
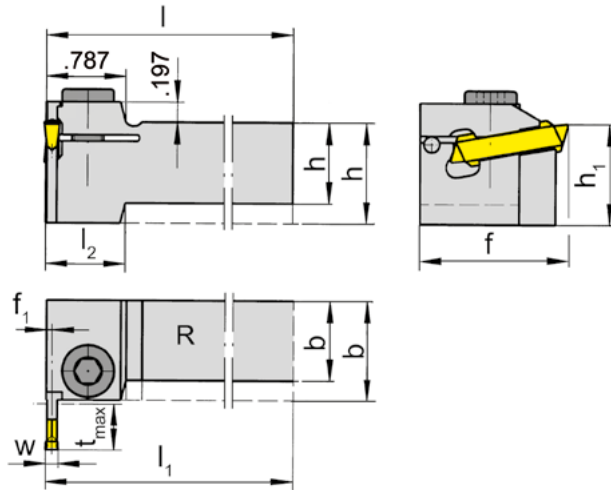
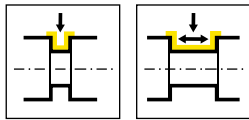
Dimensions in inch



H

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
R/LU226...	020.1008.0041	T15PQ	4.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l	l_1	h_1	f	t_{max}	HWS
RU219.0750.03	.750	.750	6.004	$l-f_1+w/2$	1.000	1.472	.433	229030
RU219.1000.03	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.472	.433	229030
RU219.0750.04	.750	.750	6.004	$l-f_1+w/2$	1.000	1.472	.433	229040
RU219.1000.04	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.472	.433	229040
RU219.0750.05	.750	.750	6.004	$l-f_1+w/2$	1.000	1.772	.591	229050 • 229051
RU219.1000.05	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.772	.591	229050 • 229051
RU219.0750.07	.750	.750	6.004	$l-f_1+w/2$	1.000	1.772	.591	229070 • 229071
RU219.1000.07	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.772	.591	229070 • 229071
LU219.0750.03	.750	.750	6.004	$l-f_1+w/2$	1.000	1.472	.433	229030
LU219.1000.03	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.472	.433	229030
LU219.0750.04	.750	.750	6.004	$l-f_1+w/2$	1.000	1.472	.433	229040
LU219.1000.04	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.472	.433	229040
LU219.1000.05	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.772	.591	229050 • 229051
LU219.0750.07	.750	.750	6.004	$l-f_1+w/2$	1.000	1.772	.591	229070 • 229071
LU219.1000.07	1.000	1.000	6.004	$l-f_1+w/2$	1.000	1.772	.591	229070 • 229071

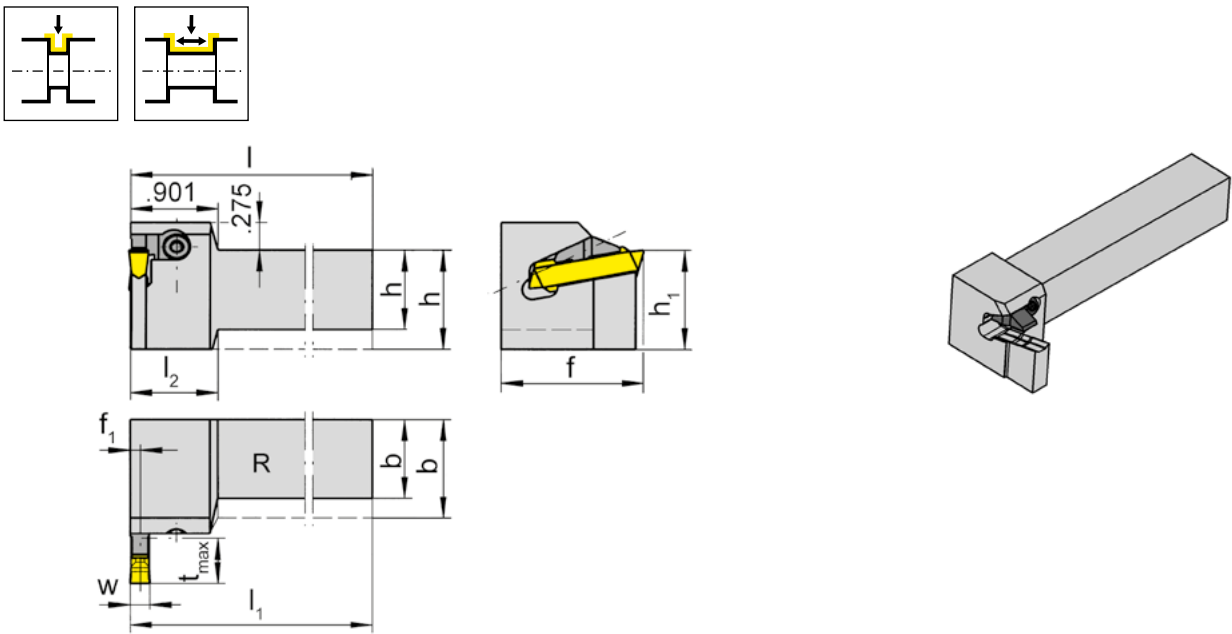
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU219...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l	l ₁	h ₁	f	t _{max}	HWS
LU219.1000.09	1.000	1.000	6.004	l-f ₁ +w/2	1.000	1.772	.591	229090 • 229091

For the (w) dimension, see inserts

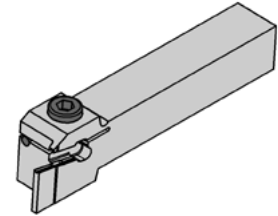
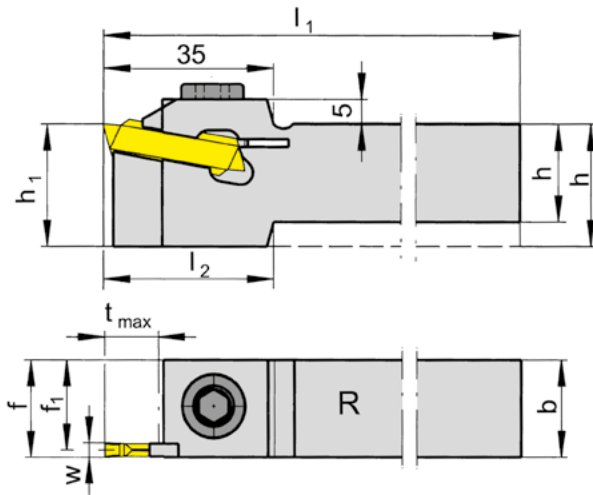
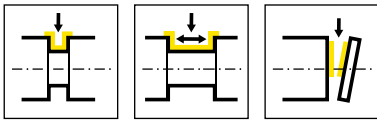
Dimensions in inch



H

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
LU219.1000.09	L218.9.32	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R210.2020.02	20	20	150	35	25	18.55	$f_1 + w/2$	11	229020
R210.2525.02	25	25	150	-	25	23.55	$f_1 + w/2$	11	229020
R210.1616.03	16	16	150	45	25	14.55	$f_1 + w/2$	11	229030
R210.2020.03	20	20	150	35	25	18.55	$f_1 + w/2$	11	229030
R210.2525.03	25	25	150	-	25	23.55	$f_1 + w/2$	11	229030
R210.3225.03	32	25	170	-	32	23.55	$f_1 + w/2$	11	229030
R210.2020.04	20	20	150	35	25	17.7	$f_1 + w/2$	11	229040
R210.2525.04	25	25	150	-	25	22.7	$f_1 + w/2$	11	229040
R210.3225.04	32	25	170	-	32	22.7	$f_1 + w/2$	11	229040
R210.2020.05	20	20	150	35	25	17.2	$f_1 + w/2$	11	229050 • 229051
R210.2525.05	25	25	150	-	25	22.2	$f_1 + w/2$	11	229050 • 229051
R210.3225.05	32	25	170	-	32	22.2	$f_1 + w/2$	11	229050 • 229051
L210.2020.02	20	20	150	35	25	18.55	$f_1 + w/2$	11	229020
L210.2525.02	25	25	150	-	25	23.55	$f_1 + w/2$	11	229020
L210.1616.03	16	16	150	45	25	14.55	$f_1 + w/2$	11	229030
L210.2020.03	20	20	150	35	25	18.55	$f_1 + w/2$	11	229030
L210.2525.03	25	25	150	-	25	23.55	$f_1 + w/2$	11	229030
L210.3225.03	32	25	170	-	32	23.55	$f_1 + w/2$	11	229030
L210.2020.04	20	20	150	35	25	17.7	$f_1 + w/2$	11	229040
L210.2525.04	25	25	150	-	25	22.7	$f_1 + w/2$	11	229040
L210.3225.04	32	25	170	-	32	22.7	$f_1 + w/2$	11	229040
L210.2020.05	20	20	150	35	25	17.2	$f_1 + w/2$	11	229050 • 229051
L210.2525.05	25	25	150	-	25	22.2	$f_1 + w/2$	11	229050 • 229051
L210.3225.05	32	25	170	-	32	22.2	$f_1 + w/2$	11	229050 • 229051

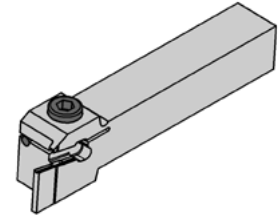
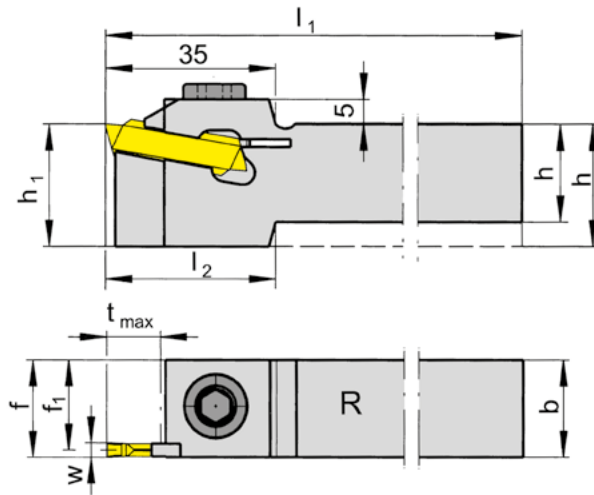
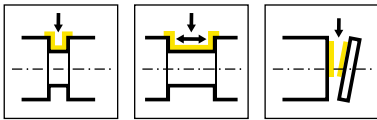
For the (w) dimension, see inserts

R/L 210...02 has a maximum cutting depth of Ø 150 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L210...	218.3	7 Nm



R = right hand version shown

L = left hand version

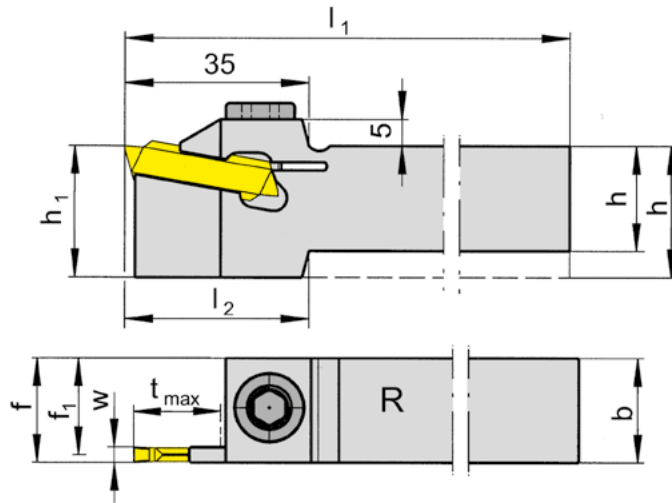
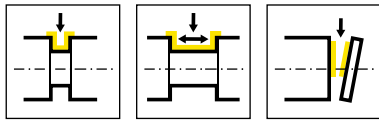
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R210.2020.07	20	20	150	35	25	16.2	$f_1+w/2$	11	229070 • 229071
R210.2525.07	25	25	150	-	25	21.2	$f_1+w/2$	11	229070 • 229071
R210.3225.07	32	25	170	-	32	21.2	$f_1+w/2$	11	229070 • 229071
R210.2020.08	20	20	150	35	25	16.2	$f_1+w/2$	11	229080 • 229081
R210.2525.08	25	25	150	-	25	21.2	$f_1+w/2$	11	229080 • 229081
R210.2020.09	20	20	150	35	25	15.2	$f_1+w/2$	11	229090 • 229091
R210.2525.09	25	25	150	-	32	20.2	$f_1+w/2$	11	229090 • 229091
L210.2020.07	20	20	150	35	25	16.2	$f_1+w/2$	11	229070 • 229071
L210.2525.07	25	25	150	-	25	21.2	$f_1+w/2$	11	229070 • 229071
L210.3225.07	32	25	170	-	32	21.2	$f_1+w/2$	11	229070 • 229071
L210.2525.08	25	25	150	-	25	21.2	$f_1+w/2$	11	229080 • 229081
L210.2020.09	20	20	150	35	25	15.2	$f_1+w/2$	11	229090 • 229091
L210.2525.09	25	25	150	-	32	20.2	$f_1+w/2$	11	229090 • 229091

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R210...07/08	218.3			7 Nm
L210...09		L218.9	T15PQ	5 Nm
R210...09		R218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
R218.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	18	80	229020
R218.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	18	80	229020
R218.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	18	-	229030
R218.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	18	-	229030
R218.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	18	-	229030
R218.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	18	-	229030
R218.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	18	-	229040
R218.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	18	-	229040
R218.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	18	-	229040
R218.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	18	-	229050 • 229051
R218.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	18	-	229050 • 229051
R218.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	18	-	229050 • 229051
L218.2020.02	20	20	150	35	25	18.55	f ₁ +w/2	18	80	229020
L218.2525.02	25	25	150	-	25	23.55	f ₁ +w/2	18	80	229020
L218.1616.03	16	16	150	45	25	14.55	f ₁ +w/2	18	-	229030
L218.2020.03	20	20	150	35	25	18.55	f ₁ +w/2	18	-	229030
L218.2525.03	25	25	150	-	25	23.55	f ₁ +w/2	18	-	229030
L218.3225.03	32	25	170	-	32	23.55	f ₁ +w/2	18	-	229030
L218.2020.04	20	20	150	35	25	17.7	f ₁ +w/2	18	-	229040
L218.2525.04	25	25	150	-	25	22.7	f ₁ +w/2	18	-	229040
L218.3225.04	32	25	170	-	32	22.7	f ₁ +w/2	18	-	229040
L218.2020.05	20	20	150	35	25	17.2	f ₁ +w/2	18	-	229050 • 229051
L218.2525.05	25	25	150	-	25	22.2	f ₁ +w/2	18	-	229050 • 229051
L218.3225.05	32	25	170	-	32	22.2	f ₁ +w/2	18	-	229050 • 229051

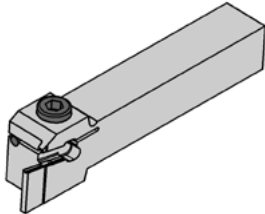
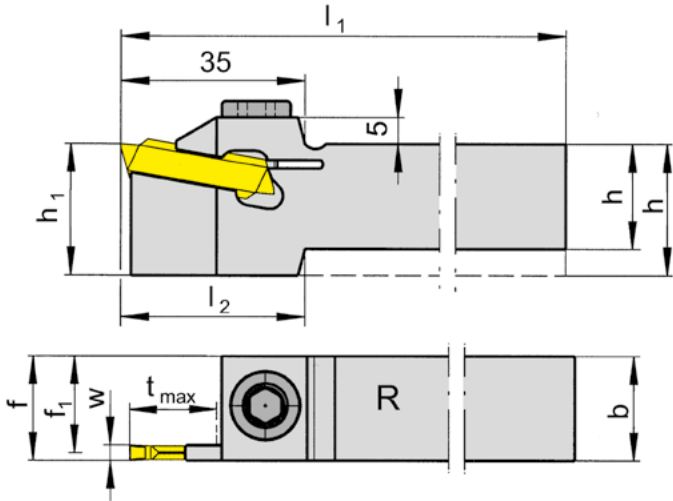
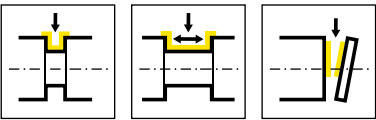
For the (w) dimension, see inserts

R/L 218...02 max. depth of groove up to Ø 80 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L218...	218.3	7 Nm



R = right hand version shown L = left hand version

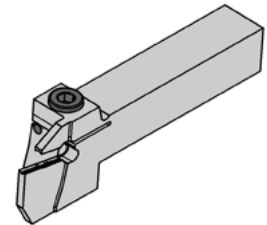
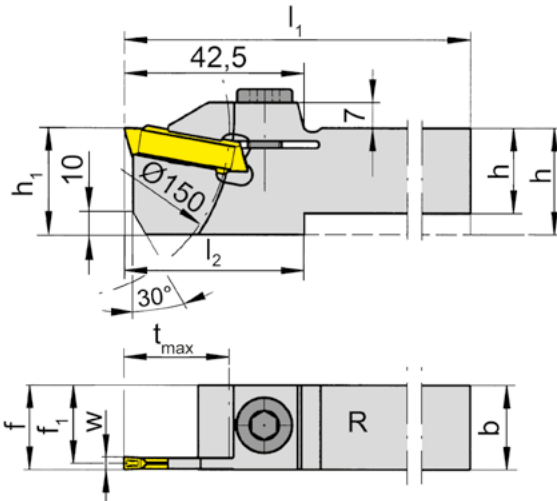
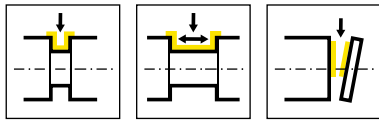
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R218.2020.07	20	20	150	35	25	16.2	f ₁ +w/2	18	229070 • 229071
R218.2525.07	25	25	150	-	25	21.2	f ₁ +w/2	18	229070 • 229071
R218.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071
R218.2020.09	20	20	150	35	25	15.2	f ₁ +w/2	18	229090 • 229091
R218.2525.09	25	25	150	-	25	20.2	f ₁ +w/2	18	229090 • 229091
R218.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	18	229090 • 229091
L218.2020.07	20	20	150	35	25	16.2	f ₁ +w/2	18	229070 • 229071
L218.2525.07	25	25	150	-	25	21.2	f ₁ +w/2	18	229070 • 229071
L218.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	18	229070 • 229071
L218.2525.08	25	25	150	-	25	21.2	f ₁ +w/2	18	229080 • 229081
L218.2020.09	20	20	150	35	25	15.2	f ₁ +w/2	18	229090 • 229091
L218.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	18	229090 • 229091

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Clamping element	TORX PLUS® Wrench	Torque Value
L218...07/08	218.3			7 Nm
L218...		L218.9	T15PQ	5 Nm
R218...		R218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

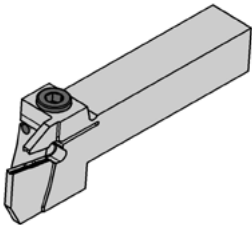
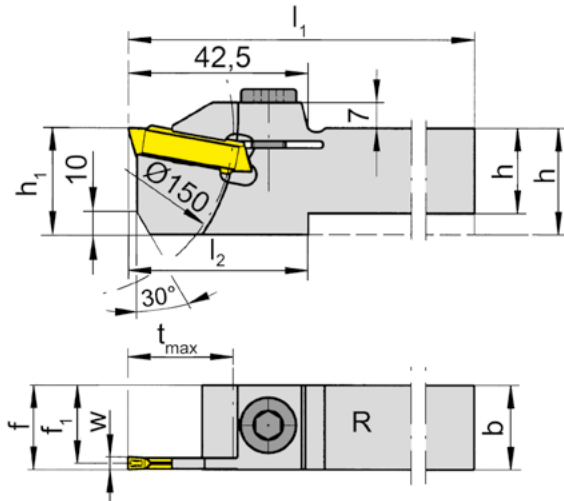
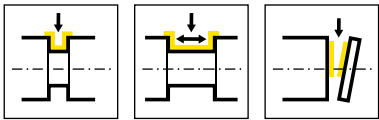
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R226.1616.03	16	16	150	52.5	32	14.55	$f_1+w/2$	25	229030
R226.2020.03	20	20	150	42.5	32	18.55	$f_1+w/2$	25	229030
R226.2525.03	25	25	150	42.5	32	23.55	$f_1+w/2$	25	229030
R226.3225.03	32	25	170	-	32	23.55	$f_1+w/2$	25	229030
R226.1616.04	16	16	150	52.5	32	13.7	$f_1+w/2$	25	229040
R226.2020.04	20	20	150	42.5	32	17.7	$f_1+w/2$	25	229040
R226.2525.04	25	25	150	42.5	32	22.7	$f_1+w/2$	25	229040
R226.3225.04	32	25	170	-	32	22.7	$f_1+w/2$	25	229040
R226.2020.05	20	20	150	42.5	32	17.2	$f_1+w/2$	25	229050 • 229051
R226.2525.05	25	25	150	42.5	32	22.2	$f_1+w/2$	25	229050 • 229051
R226.3225.05	32	25	170	-	32	22.2	$f_1+w/2$	25	229050 • 229051
L226.1616.03	16	16	150	52.5	32	14.55	$f_1+w/2$	25	229030
L226.2020.03	20	20	150	42.5	32	18.55	$f_1+w/2$	25	229030
L226.2525.03	25	25	150	42.5	32	23.55	$f_1+w/2$	25	229030
L226.3225.03	32	25	170	-	32	23.55	$f_1+w/2$	25	229030
L226.1616.04	16	16	150	52.5	32	13.7	$f_1+w/2$	25	229040
L226.2020.04	20	20	150	42.5	32	17.7	$f_1+w/2$	25	229040
L226.2525.04	25	25	150	42.5	32	22.7	$f_1+w/2$	25	229040
L226.3225.04	32	25	170	-	32	22.7	$f_1+w/2$	25	229040
L226.2020.05	20	20	150	42.5	32	17.2	$f_1+w/2$	25	229050 • 229051
L226.2525.05	25	25	150	42.5	32	22.2	$f_1+w/2$	25	229050 • 229051
L226.3225.05	32	25	170	-	32	22.2	$f_1+w/2$	25	229050 • 229051

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L226...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R226.2525.07	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229070 • 229071
R226.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	25	229070 • 229071
R226.2525.08	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229080 • 229081
R226.3225.08	32	25	170	-	32	21.2	f ₁ +w/2	25	229080 • 229081
R226.2525.09	25	25	150	50	25	20.2	f ₁ +w/2	25	229090 • 229091
R226.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	25	229090 • 229091
L226.2525.07	25	25	150	42.5	32	21.2	f ₁ +w/2	25	229070 • 229071
L226.3225.07	32	25	170	-	32	21.2	f ₁ +w/2	25	229070 • 229071
L226.2525.08	25	25	150	42.5	32	20.2	f ₁ +w/2	25	229080 • 229081
L226.3225.08	32	25	170	-	32	21.2	f ₁ +w/2	25	229080 • 229081
L226.2525.09	25	25	150	50	25	20.2	f ₁ +w/2	25	229090 • 229091
L226.3225.09	32	25	170	-	32	20.2	f ₁ +w/2	25	229090 • 229091

For the (w) dimension, see inserts

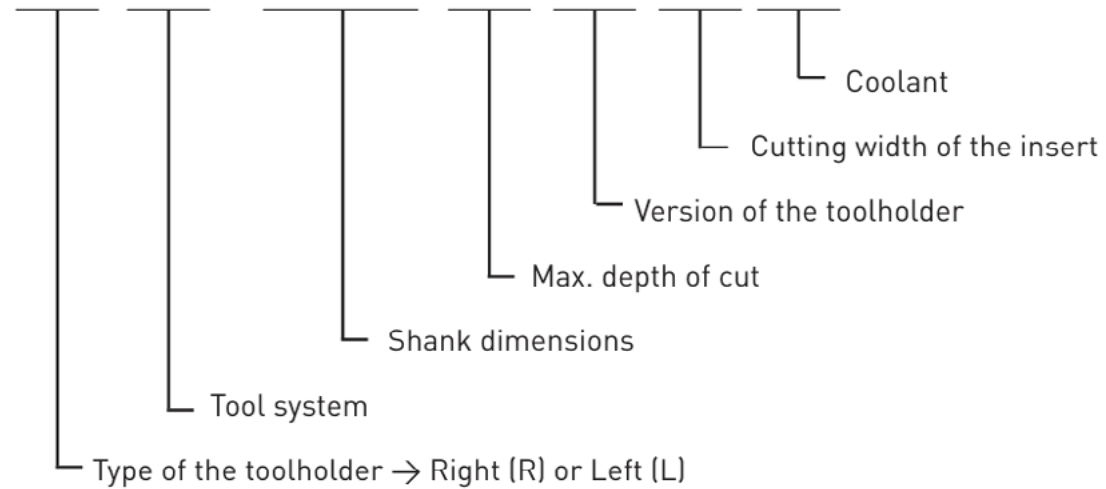
Dimensions in mm

Spare Parts

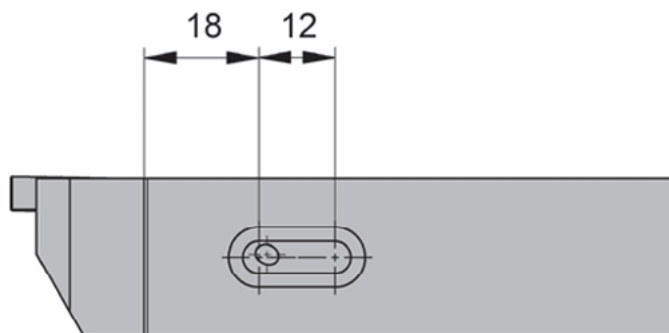
Toolholder	Clamping Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L226...07/08	218.3	020.1008.0041	T15PQ	7 Nm
R/L226...09				4.5 Nm

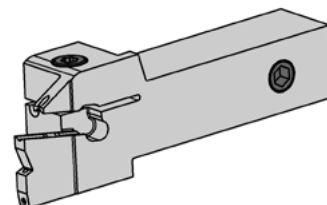
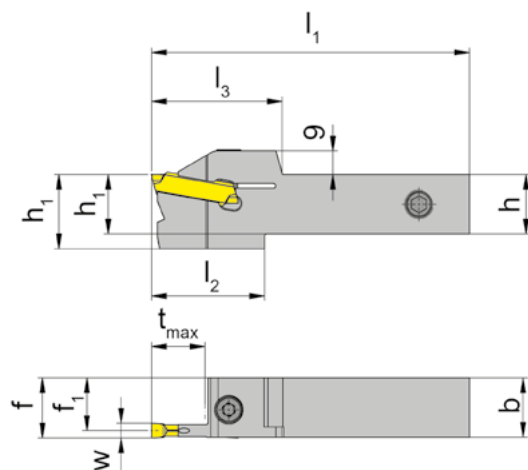
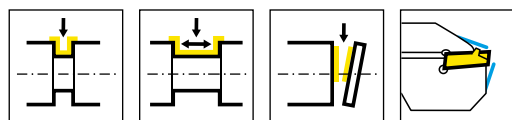
Number code of the toolholder:

RH229.2020.18.0A.05.IK



Position of the coolant transfer





R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	w	HWS
RH229.2020.18.0A.03.IK	20	20	107	38	44	20	18.55	$f_1+w/2$	18	3	229030
RH229.2020.18.0A.04.IK	20	20	107	38	44	20	18.15	$f_1+w/2$	18	4	229040
RH229.2020.18.0A.05.IK	20	20	107	38	44	20	17.75	$f_1+w/2$	18	5	229040
RH229.2020.18.0A.06.IK	20	20	107	38	44	20	17.4	$f_1+w/2$	18	6	229051
RH229.2020.18.0A.08.IK	20	20	109	40	46	20	16.9	$f_1+w/2$	18	8	229081
RH229.2525.18.0A.03.IK	25	25	122	38	44	25	23.55	$f_1+w/2$	18	3	229030
RH229.2525.18.0A.04.IK	25	25	122	38	44	25	23.15	$f_1+w/2$	18	4	229040
RH229.2525.18.0A.05.IK	25	25	122	38	44	25	22.75	$f_1+w/2$	18	5	229040
RH229.2525.18.0A.06.IK	25	25	122	38	44	25	22.4	$f_1+w/2$	18	6	229051
RH229.2525.18.0A.08.IK	25	25	122	38	44	25	21.9	$f_1+w/2$	18	8	229081
LH229.2020.18.0A.03.IK	20	20	107	38	44	20	18.55	$f_1+w/2$	18	3	229030
LH229.2020.18.0A.04.IK	20	20	107	38	44	20	18.15	$f_1+w/2$	18	4	229040
LH229.2020.18.0A.05.IK	20	20	107	38	44	20	17.75	$f_1+w/2$	18	5	229040
LH229.2020.18.0A.06.IK	20	20	107	38	44	20	17.4	$f_1+w/2$	18	6	229051
LH229.2020.18.0A.08.IK	20	20	109	40	46	20	16.9	$f_1+w/2$	18	8	229081
LH229.2525.18.0A.03.IK	25	25	122	38	44	25	23.55	$f_1+w/2$	18	3	229030
LH229.2525.18.0A.04.IK	25	25	122	38	44	25	23.15	$f_1+w/2$	18	4	229040
LH229.2525.18.0A.05.IK	25	25	122	38	44	25	22.75	$f_1+w/2$	18	5	229040
LH229.2525.18.0A.06.IK	25	25	122	38	44	25	22.4	$f_1+w/2$	18	6	229051
LH229.2525.18.0A.08.IK	25	25	122	38	44	25	21.9	$f_1+w/2$	18	8	229081

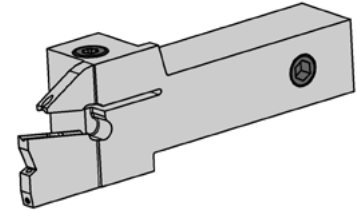
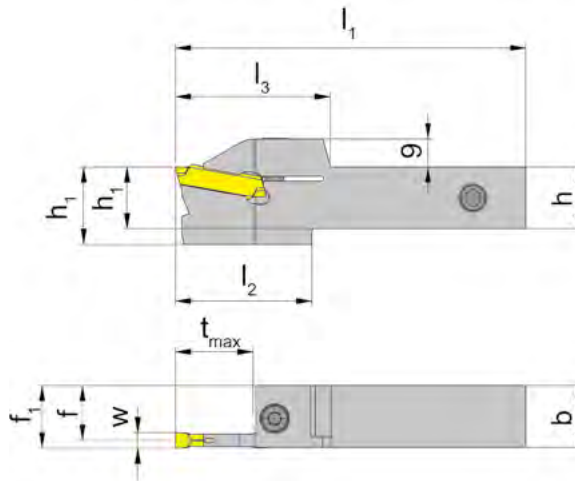
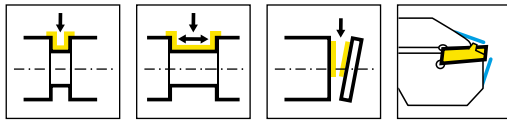
Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH229...	004.00.16	6.23T25P	T25PQ	7 Nm

Toolholder

H229



R = right hand version shown

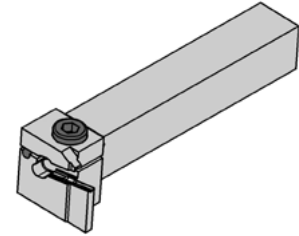
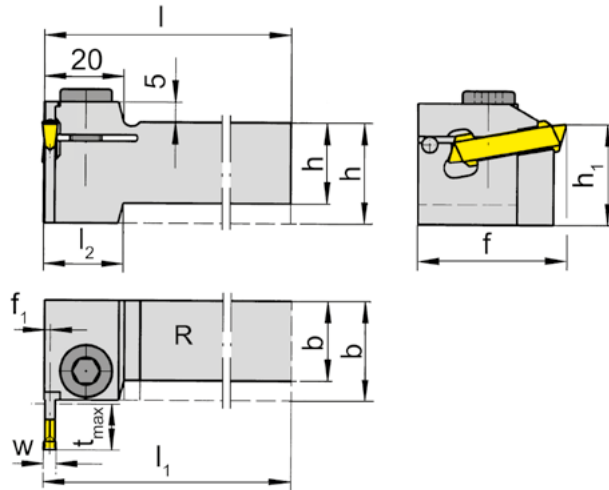
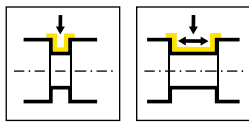
L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	w	HWS
RH229.2020.25.0A.03.IK	20	20	113	44	50	20	18.55	$f_1+w/2$	25	3	229030
RH229.2020.25.0A.04.IK	20	20	113	44	50	20	18.15	$f_1+w/2$	25	4	229040
RH229.2020.25.0A.05.IK	20	20	113	44	50	20	17.75	$f_1+w/2$	25	5	229040
RH229.2020.25.0A.06.IK	20	20	113	44	50	20	17.4	$f_1+w/2$	25	6	229051
RH229.2020.25.0A.08.IK	20	20	113	44	50	20	16.9	$f_1+w/2$	25	8	229081
RH229.2525.25.0A.03.IK	25	25	128	44	50	25	23.55	$f_1+w/2$	25	3	229030
RH229.2525.25.0A.04.IK	25	25	128	44	50	25	23.15	$f_1+w/2$	25	4	229040
RH229.2525.25.0A.05.IK	25	25	128	44	50	25	22.75	$f_1+w/2$	25	5	229040
RH229.2525.25.0A.06.IK	25	25	128	44	50	25	22.4	$f_1+w/2$	25	6	229051
RH229.2525.25.0A.08.IK	25	25	128	44	50	25	21.9	$f_1+w/2$	25	8	229081
LH229.2020.25.0A.03.IK	20	20	113	44	50	20	18.55	$f_1+w/2$	25	3	229030
LH229.2020.25.0A.04.IK	20	20	113	44	50	20	18.15	$f_1+w/2$	25	4	229040
LH229.2020.25.0A.05.IK	20	20	113	44	50	20	17.75	$f_1+w/2$	25	5	229040
LH229.2020.25.0A.06.IK	20	20	113	44	50	20	17.4	$f_1+w/2$	25	6	229051
LH229.2020.25.0A.08.IK	20	20	113	44	50	20	16.9	$f_1+w/2$	25	8	229081
LH229.2525.25.0A.03.IK	25	25	128	44	50	25	23.55	$f_1+w/2$	25	3	229030
LH229.2525.25.0A.04.IK	25	25	128	44	50	25	23.15	$f_1+w/2$	25	4	229040
LH229.2525.25.0A.05.IK	25	25	128	44	50	25	22.75	$f_1+w/2$	25	5	229040
LH229.2525.25.0A.06.IK	25	25	128	44	50	25	22.4	$f_1+w/2$	25	6	229051
LH229.2525.25.0A.08.IK	25	25	128	44	50	25	21.9	$f_1+w/2$	25	8	229081

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH229...	004.00.16	6.23T25P	T25PQ	7 Nm



R = right hand version shown

L = left hand version

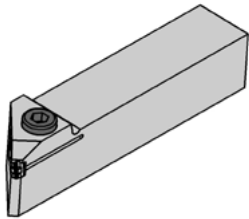
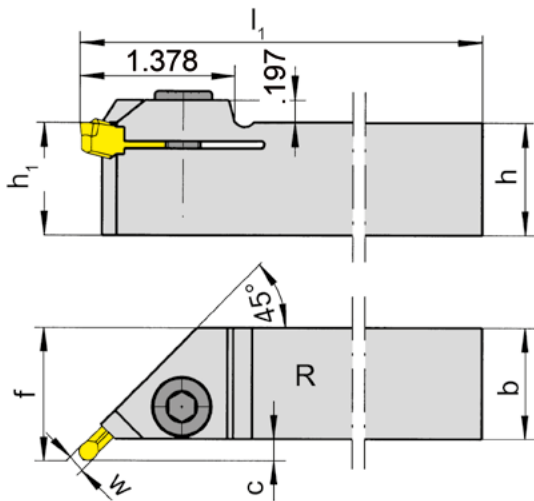
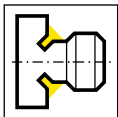
Part number	h	b	l	l_1	l_2	h_1	f	f_1	t_{max}	HWS
R219.2020.03	20	20	150	$l-f_1+w/2$	20	25	37	1.45	11	229030
R219.2525.03	25	25	150	$l-f_1+w/2$	-	25	37	1.45	11	229030
R219.2020.04	20	20	150	$l-f_1+w/2$	20	25	37	2.3	11	229040
R219.2525.04	25	25	150	$l-f_1+w/2$	-	25	37	2.3	11	229040
R219.2020.05	20	20	150	$l-f_1+w/2$	23	25	45	2.8	15	229050 • 229051
R219.2525.05	25	25	150	$l-f_1+w/2$	-	25	45	2.8	15	229050 • 229051
R219.2525.07	25	25	150	$l-f_1+w/2$	-	25	45	3.8	15	229070 • 229071
L219.2020.03	20	20	150	$l-f_1+w/2$	20	25	37	1.45	11	229030
L219.2525.03	25	25	150	$l-f_1+w/2$	-	25	37	1.45	11	229030
L219.2020.04	20	20	150	$l-f_1+w/2$	20	25	37	2.3	11	229040
L219.2525.04	25	25	150	$l-f_1+w/2$	-	25	37	2.3	11	229040
L219.2020.05	20	20	150	$l-f_1+w/2$	23	25	45	2.8	15	229050 • 229051
L219.2525.05	25	25	150	$l-f_1+w/2$	-	25	45	2.8	15	229050 • 229051
L219.2020.07	20	20	150	$l-f_1+w/2$	23	25	45	3.8	15	229070 • 229071
L219.2525.07	25	25	150	$l-f_1+w/2$	-	25	45	3.8	15	229070 • 229071

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L219....	218.3	7 Nm
L219.2020.07	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f	C	D _{min}	Width of groove (mm)	HWS
RU225.1000.04	1.000	1.000	6.004	1.000	1.197	.197	1.969	.118-.197	229040
LU225.1000.04	1.000	1.000	6.004	1.000	1.197	.197	1.969	.118-.197	229040

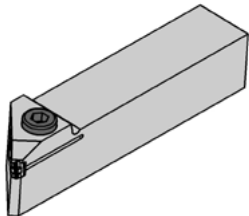
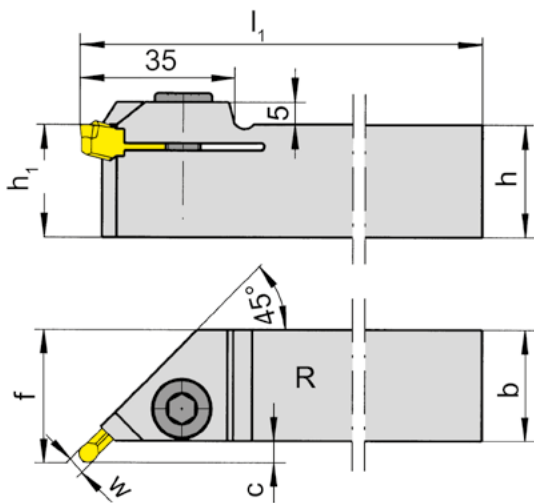
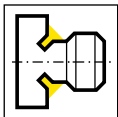
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU225.1000.04	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f	C	D _{min}	Width of groove (mm)	HWS
R225.2525.04	25	25	150	25	30	5	50	3.00-5.09	229040
R225.2525.05	25	25	150	25	30.5	5.5	50	5.10-6.00	229050 • 229051
L225.2525.04	25	25	150	25	30	5	50	3.00-5.09	229040
L225.2525.05	25	25	150	25	30.5	5.5	50	5.10-6.00	229050 • 229051

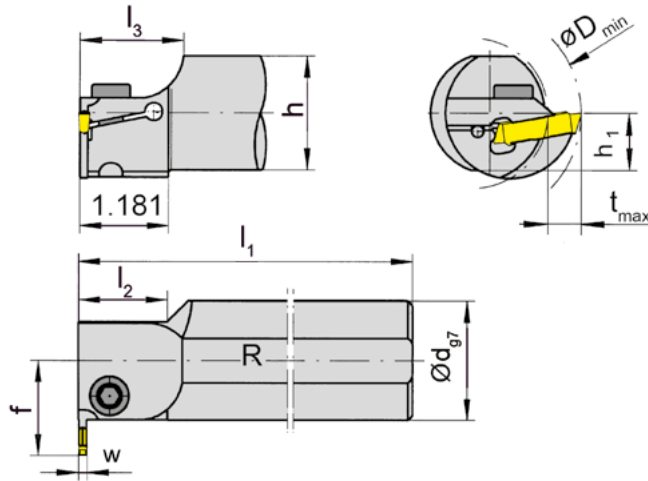
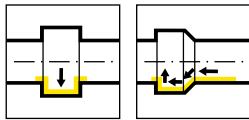
For the (w) dimension, see inserts

Dimensions in mm



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L225...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1000.03	1.000	5.984	-	1.375	.921	.461	.965	.453	1.496	229030
RU213.1250.03	1.250	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229030
RU213.1500.03	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229030
RU213.2000.03	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229030
RU213.1000.04	1.000	5.984	-	1.375	.921	.461	.965	.453	1.496	229040
RU213.1250.04	1.250	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229040
RU213.1500.04	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229040
RU213.2000.04	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229040
RU213.1250.05	1.250	5.984	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
RU213.1500.05	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229050 • 229051
RU213.2000.05	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229050 • 229051
RU213.1500.07	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229070 • 229071
RU213.2000.07	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229070 • 229071
LU213.1000.03	1.000	5.984	-	1.375	.921	.461	.965	.453	1.496	229030
LU213.1250.03	1.250	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229030
LU213.1500.03	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229030
LU213.2000.03	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229030
LU213.1000.04	1.000	5.984	-	1.375	.921	.461	.965	.453	1.496	229040
LU213.1250.04	1.250	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229040
LU213.1500.04	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229040
LU213.2000.04	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229040
LU213.1250.05	1.250	5.984	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
LU213.1500.05	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229050 • 229051
LU213.2000.05	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229050 • 229051
LU213.1500.07	1.500	7.008	1.181	1.375	1.421	.711	1.220	.453	1.969	229070 • 229071
LU213.2000.07	2.000	7.992	1.181	1.500	1.882	.941	1.614	.591	2.362	229070 • 229071

For the (w) dimension, see inserts

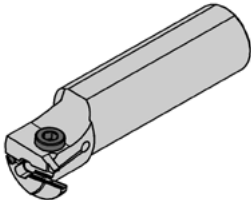
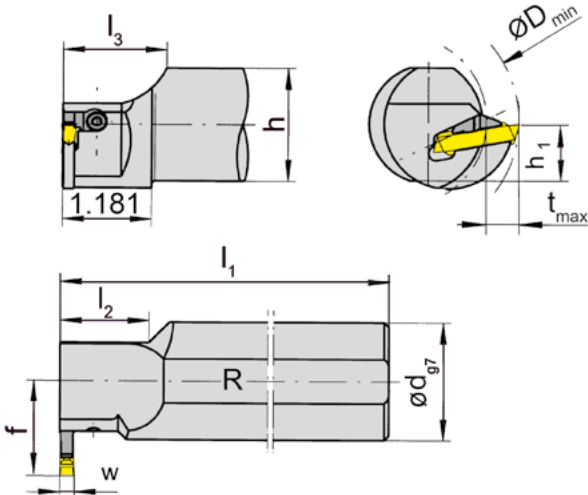
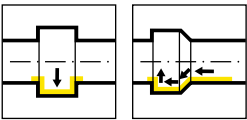
Dimensions in inch

The full depth of cut t_{max} = .453" will be reached from D_{min} 1.811"



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU213...	218.3	7 Nm



R = right hand version shown L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1500.09	1.500	7.008	1.260	1.375	1.421	.711	1.220	.453	1.969	229090 • 229091

For the (w) dimension, see inserts

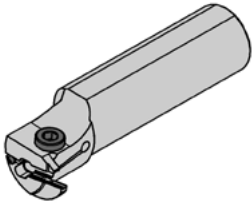
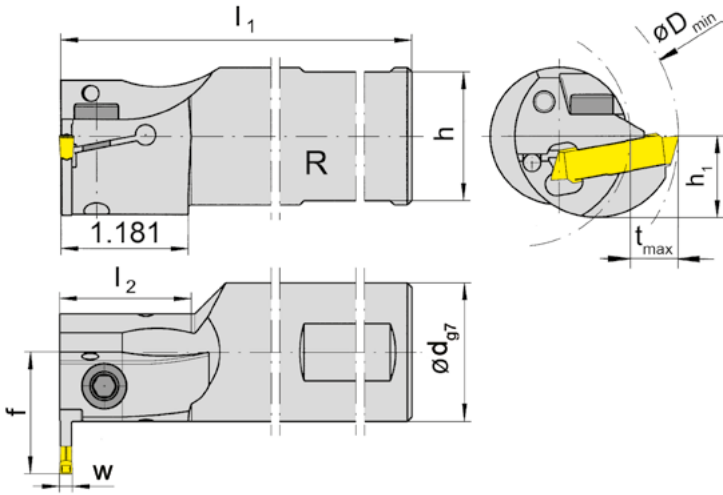
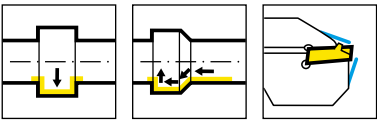
Dimensions in inch



H

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
RU213.1500.09	R218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1250.03IK	1.250	6.004	1.260	1.171	.586	1.102	.453	1.496	229030
RU213.1500.03IK	1.500	7.008	1.260	1.421	.711	1.220	.453	1.969	229030
RU213.1250.04IK	1.250	6.004	1.260	1.171	.586	1.102	.453	1.496	229040
RU213.1500.04IK	1.500	7.008	1.260	1.421	.711	1.220	.453	1.969	229040
LU213.1500.03IK	1.500	7.008	1.260	1.421	.711	1.220	.453	1.969	229030
LU213.1500.04IK	1.500	7.008	1.260	1.421	.711	1.220	.453	1.969	229040

For the (w) dimension, see inserts

Note toolholder with shank-Ø 0.984" or 1.26"

The full depth of cut t_{max} = .453" will be reached from D_{min} 1.811"

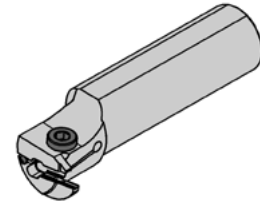
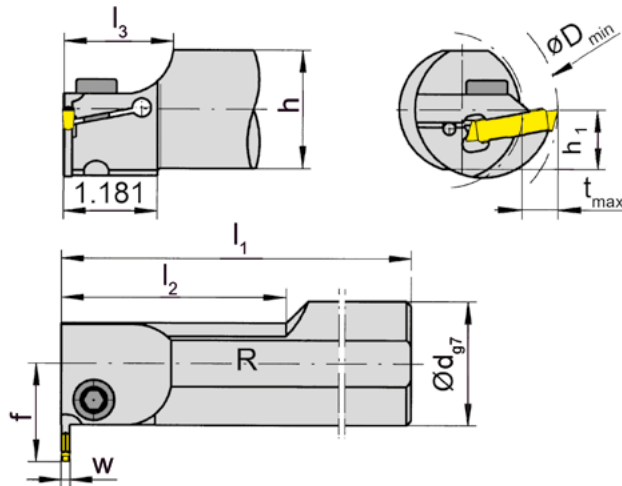
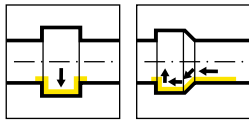
Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L213...	DIN912-M6x14	7 Nm





R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU214.1250.03	1.250	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229030
RU214.1500.03	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229030
RU214.2000.03	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229030
RU214.1250.04	1.250	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229040
RU214.1500.04	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229040
RU214.2000.04	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229040
RU214.1250.05	1.250	7.992	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
RU214.1500.05	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229050 • 229051
RU214.2000.05	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229050 • 229051
RU214.1500.07	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229070 • 229071
RU214.2000.07	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229070 • 229071
LU214.1250.03	1.250	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229030
LU214.1500.03	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229030
LU214.2000.03	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229030
LU214.1250.04	1.250	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229040
LU214.1500.04	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229040
LU214.2000.04	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229040
LU214.1250.05	1.250	7.992	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
LU214.1500.05	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229050 • 229051
LU214.2000.05	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229050 • 229051
LU214.1500.07	1.500	10.000	3.268	1.375	1.421	.711	1.220	.453	1.969	229070 • 229071
LU214.2000.07	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229070 • 229071

For the (w) dimension, see inserts

Note Toolholders with shank Ø 1.250":

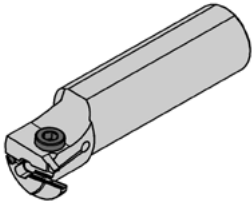
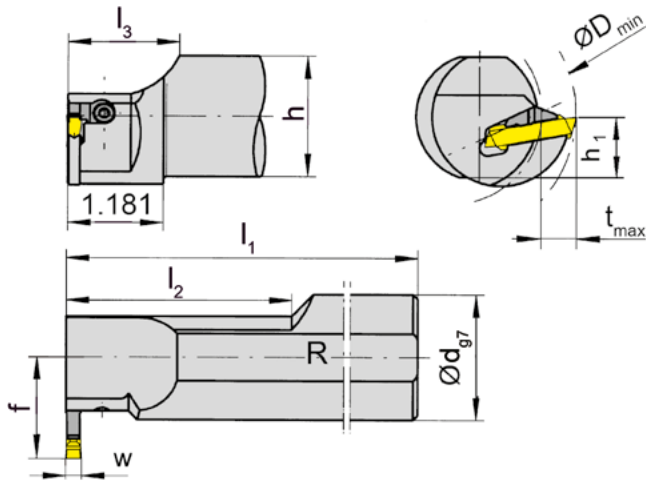
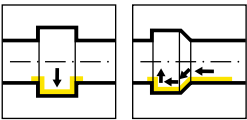
The full depth of cut t_{max} = .453" will be reached from D_{min} 1.811"

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LU214...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU214.2000.09	2.000	10.000	4.016	1.500	1.882	.941	1.614	.591	2.362	229090 • 229091

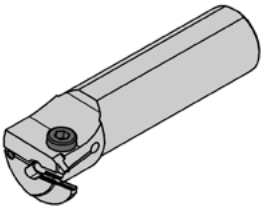
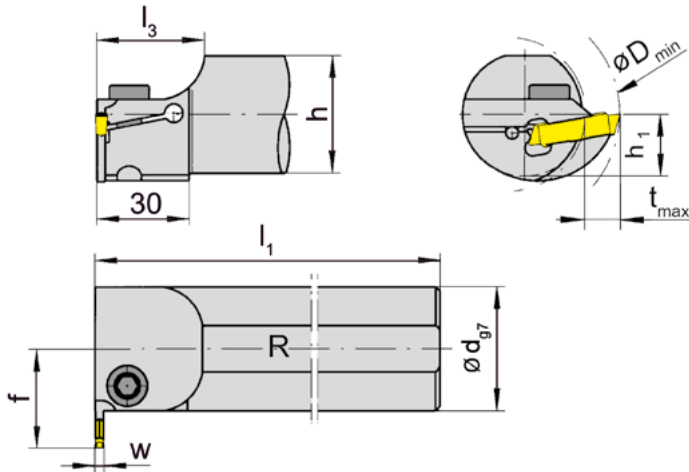
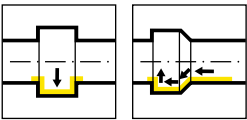
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
RU214.2000.09	R218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

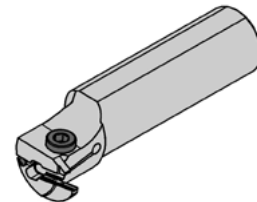
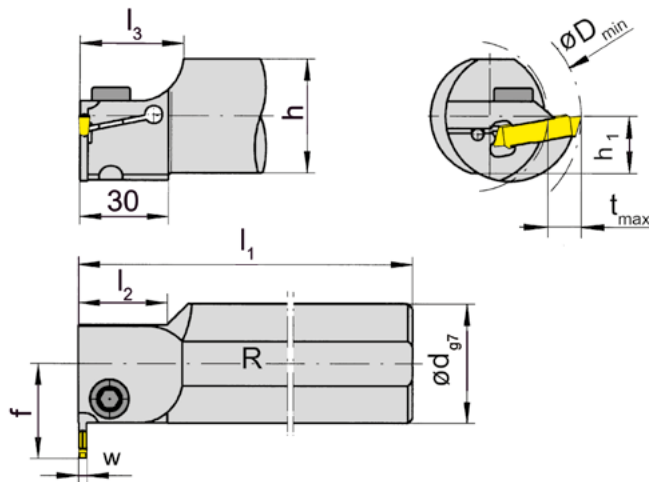
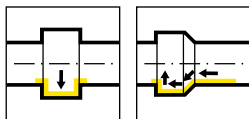
Part number	d	l ₁	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0032.0.03	32	150	35	30	15	28	11.5	46	229030
R213.0040.0.03	40	180	39.4	38	19	32	11.5	54	229030
R213.0032.0.04	32	150	35	30	15	28	11.5	46	229040
R213.0040.0.04	40	180	39.4	38	19	32	11.5	54	229040
R213.0032.0.05	32	150	35	30	15	28	11.5	46	229051
R213.0040.0.05	40	180	39.4	38	19	32	11.5	54	229051
L213.0032.0.03	32	150	35	30	15	28	11.5	46	229030
L213.0040.0.03	40	180	39.4	38	19	32	11.5	54	229030
L213.0032.0.04	32	150	35	30	15	28	11.5	46	229040
L213.0040.0.04	40	180	39.4	38	19	32	11.5	54	229040
L213.0032.0.05	32	150	35	30	15	28	11.5	46	229051
L213.0040.0.05	40	180	39.4	38	19	32	11.5	54	229051

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L213...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0025.03	25	150	-	31.8	23	11.5	24.5	7.5	38	229030
R213.0032.03	32	150	30	35	30	15	28	7.5	38	229030
R213.0040.03	40	180	30	37.4	38	19	32	11.5	50	229030
R213.0050.03	50	200	30	39.1	47	23.5	40.5	15	60	229030
R213.0025.04	25	150	-	31.8	23	11.5	24.5	7.5	38	229040
R213.0032.04	32	150	30	35	30	15	28	7.5	38	229040
R213.0040.04	40	180	30	37.4	38	19	32	11.5	50	229040
R213.0050.04	50	200	30	39.1	47	23.5	40.5	15	60	229040
R213.0032.05	32	150	-	35	30	15	28	11.5	46	229051
R213.0040.05	40	180	30	35	38	19	32	11.5	50	229051
R213.0050.05	50	200	30	40	47	23.5	40.5	15	60	229051
R213.0040.07	40	180	30	35	38	19	32	11.5	50	229070 • 229071
R213.0050.07	50	200	30	40	47	23.5	40.5	15	60	229070 • 229071
L213.0025.03	25	150	-	31.8	23	11.5	24.5	7.5	38	229030
L213.0032.03	32	150	30	35	30	15	28	7.5	38	229030
L213.0040.03	40	180	30	37.4	38	19	32	11.5	50	229030
L213.0050.03	50	200	30	39.1	47	23.5	40.5	15	60	229030
L213.0025.04	25	150	-	31.8	23	11.5	24.5	7.5	38	229040
L213.0032.04	32	150	-	35	30	15	28	7.5	38	229040
L213.0040.04	40	180	30	37.4	38	19	32	11.5	50	229040
L213.0050.04	50	200	30	39.1	47	23.5	40.5	15	60	229040
L213.0032.05	32	150	-	35	30	15	28	11.5	46	229051
L213.0040.05	40	180	30	35	38	19	32	11.5	50	229051
L213.0050.05	50	200	30	40	47	23.5	40.5	15	60	229051
L213.0040.07	40	180	30	35	38	19	32	11.5	50	229070 • 229071
L213.0050.07	50	200	30	40	47	23.5	40.5	15	60	229070 • 229071

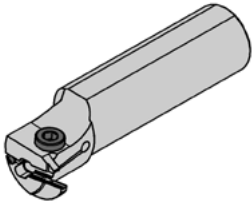
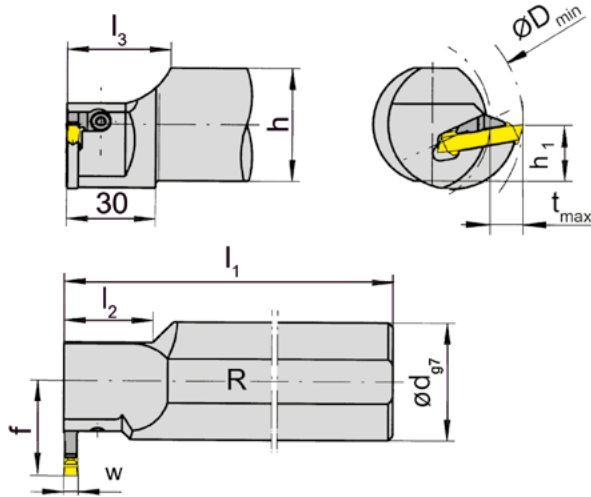
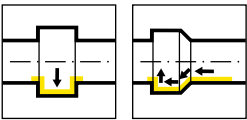
For the (w) dimension, see inserts

The full depth of cut t_{max} = 11.5 mm will be reached from D_{min} 46 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L213...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0040.09	40	180	30	35	38	19	32	11.5	50	229091
R213.0050.09	50	200	30	40	47	23.5	40.5	15	60	229091
L213.0040.09	40	180	30	35	38	19	32	11.5	50	229091
L213.0050.09	50	200	30	40	47	23.5	40.5	15	60	229091

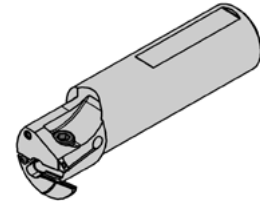
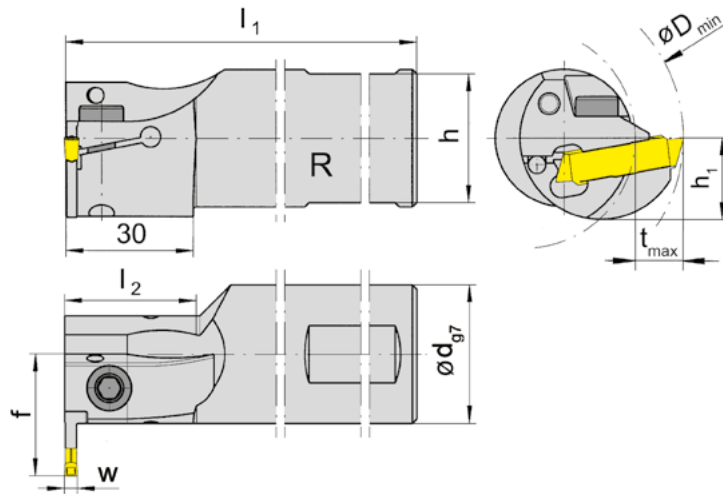
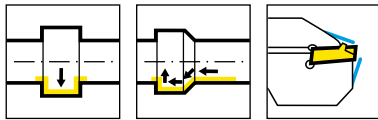
For the (w) dimension, see inserts

Dimensions in mm



Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
L213...	R218.9	T15PQ	5 Nm
R213...	L218.9	T15PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0025.03IK	25	150	-	23	11.5	24.5	7.5	38	229030
R213.0025.04IK	25	150	-	23	11.5	24.5	7.5	38	229040
R213.0032.03IK	32	150	30	30	15	28	7.5	38	229030
R213.0032.04IK	32	150	30	30	15	28	7.5	38	229040
R213.0040.03IK	40	180	30	38	19	32	11.5	50	229030
R213.0040.04IK	40	180	30	38	19	32	11.5	50	229040
L213.0025.03IK	25	150	-	23	11.5	24.5	7.5	38	229030
L213.0025.04IK	25	150	-	23	11.5	24.5	7.5	38	229040
L213.0032.03IK	32	150	30	30	15	28	7.5	38	229030
L213.0032.04IK	32	150	30	30	15	28	7.5	38	229040
L213.0040.03IK	40	180	30	38	19	32	11.5	50	229030
L213.0040.04IK	40	180	30	38	19	32	11.5	50	229040

For the (w) dimension, see inserts

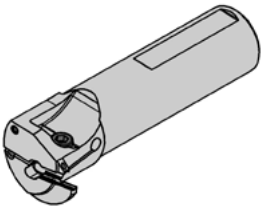
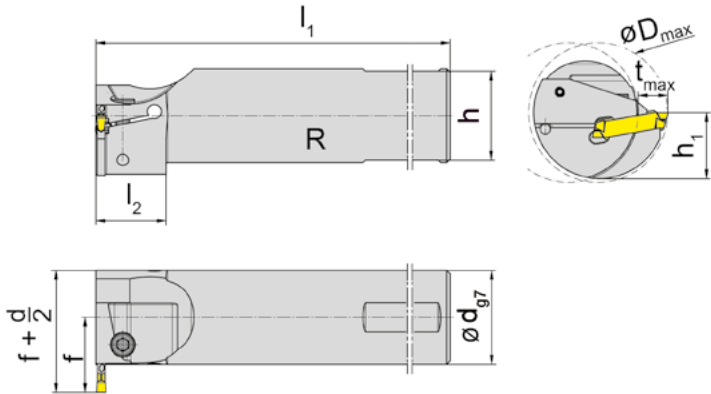
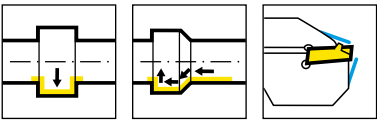
Note toolholder with shank-Ø 25 or 32 mm

The full depth of cut t_{max} = 11.5 mm will be reached from D_{min} 46 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L213...	DIN912-M6x14	7 Nm



R = right hand version shown

L = left hand version

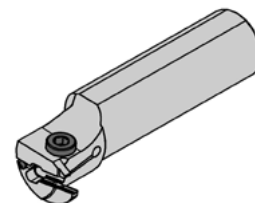
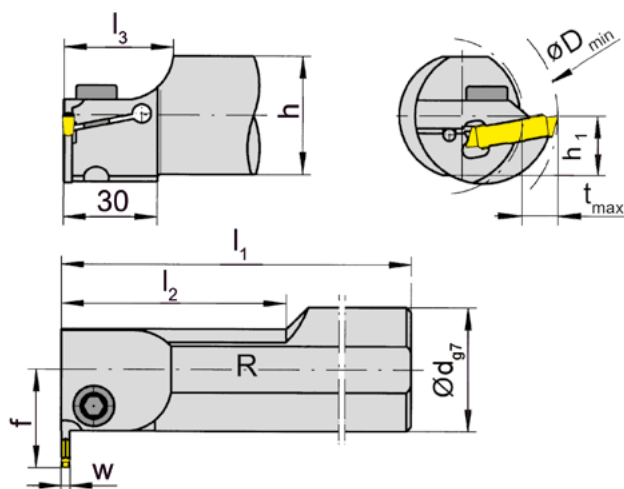
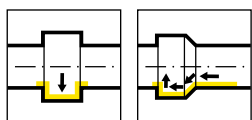
Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
R213.0032.0.03IK	32	150	30	30	15	28	11.5	46	229030
R213.0032.0.04IK	32	150	30	30	15	28	11.5	46	229040
R213.0040.0.04IK	40	180	30	38	19	32	11.5	54	229040
R213.0040.0.05IK	40	180	30	38	19	32	11.5	54	229051
L213.0032.0.03IK	32	150	30	30	15	28	11.5	46	229030
L213.0032.0.04IK	32	150	30	30	15	28	11.5	46	229040
L213.0040.0.04IK	40	180	30	38	19	32	11.5	54	229040
L213.0040.0.05IK	40	180	30	38	19	32	11.5	54	229051

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L213...	DIN912-M6x14	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R214.0032.03	32	200	70	35	30	15	28	7.5	38	229030
R214.0040.03	40	250	80	35	38	19	32	11.5	50	229030
R214.0050.03	50	250	100	40	47	23.5	40.5	15	60	229030
R214.0032.04	32	200	70	35	30	15	28	7.5	38	229040
R214.0040.04	40	250	80	35	38	19	32	11.5	50	229040
R214.0050.04	50	250	100	40	47	23.5	40.5	15	60	229040
R214.0032.05	32	200	-	35	30	15	28	11.5	46	229050 • 229051
R214.0040.05	40	250	80	35	38	19	32	11.5	50	229050 • 229051
R214.0050.05	50	250	100	40	47	23.5	40.5	15	60	229050 • 229051
R214.0040.07	40	250	80	35	38	19	32	11.5	50	229070 • 229071
R214.0050.07	50	250	100	40	47	23.5	40.5	15	60	229070 • 229071
L214.0032.03	32	200	70	35	30	15	28	7.5	38	229030
L214.0040.03	40	250	80	35	38	19	32	11.5	50	229030
L214.0050.03	50	250	100	40	47	23.5	40.5	15	60	229030
L214.0032.04	32	200	70	35	30	15	28	7.5	38	229040
L214.0040.04	40	250	80	35	38	19	32	11.5	50	229040
L214.0050.04	50	250	100	40	47	23.5	40.5	15	60	229040
L214.0032.05	32	200	-	35	30	15	28	11.5	46	229050 • 229051
L214.0040.05	40	250	80	35	38	19	32	11.5	50	229050 • 229051
L214.0050.05	50	250	100	40	47	23.5	40.5	15	60	229050 • 229051
L214.0040.07	40	250	80	35	38	19	32	11.5	50	229070 • 229071
L214.0050.07	50	250	100	40	47	23.5	40.5	15	60	229070 • 229071

For the (w) dimension, see inserts

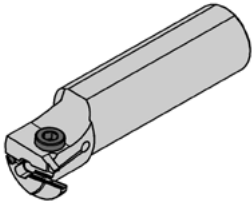
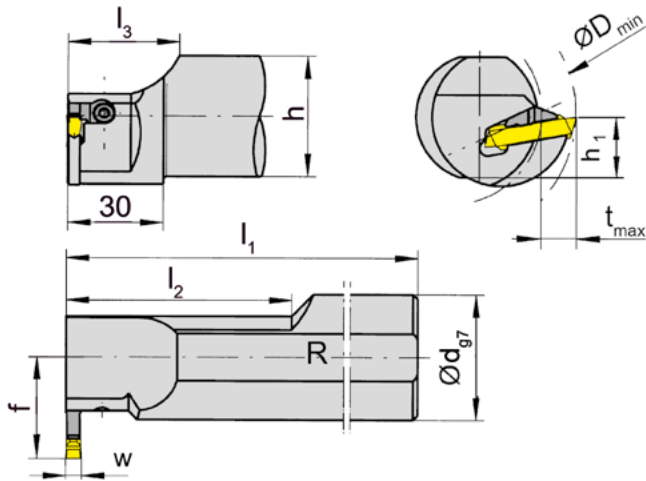
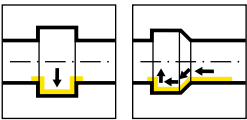
Note toolholder with shank-Ø 25 or 32 mm

The full depth of cut t_{max} = 11.5 mm will be reached from D_{min} 46 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/L214...	218.3	7 Nm



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
R214.0040.09	40	250	80	35	38	19	32	11.5	50	229091
R214.0050.09	50	250	100	40	47	23.5	40.5	15	60	229091
L214.0040.09	40	250	80	35	38	19	32	11.5	50	229091
L214.0050.09	50	250	100	40	47	23.5	40.5	15	60	229091

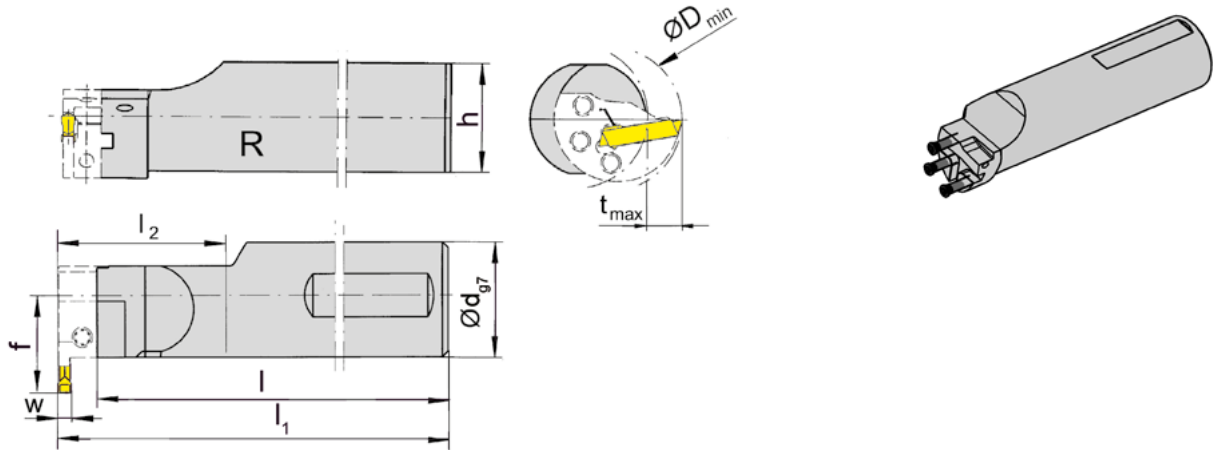
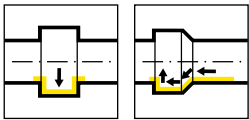
For the (w) dimension, see inserts

Dimensions in mm



Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
L214.0...	R218.9	T15PQ	5 Nm
R214.0...	L218.9	T15PQ	5 Nm



R = right hand version shown L = left hand version

Part number	d	l	l ₁	h	f	HWS
RBU229.1500.1K2	1.500	6.929	7.500	1.421	1.398	BK2292
RBU229.1500.2K2	1.500	7.469	8.000	1.421	1.398	BK2292
LBU229.1500.1.K2	1.500	6.929	7.500	1.421	1.398	BK2292
LBU229.1500.2.K2	1.500	7.469	8.000	1.421	1.398	BK2292

For the (w) dimension, see inserts
For dimensions (Dmin), (tmax), and (b1), see cassettes

Note:
For cassettes BK229 **without** coolant supply

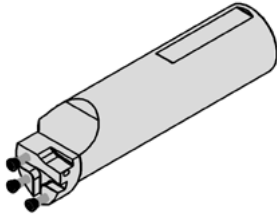
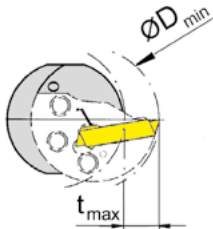
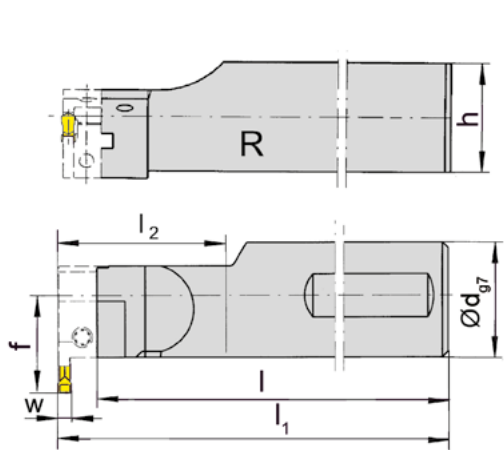
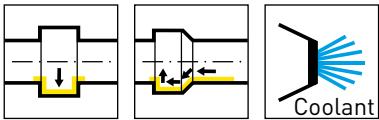
Dimensions in inch



Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBU229.1500...	030.0518.T20P	T20PQ	7 Nm





R = right hand version shown

L = left hand version

Part number	d	l	l ₂	h	f	HWS
RB229.0040.1.K2.IK	40	172.5	30	38	35.5	BK2291
RB229.0040.2.K2.IK	40	185.5	60	38	35.5	BK2291
RB229.0040.3.K2.IK	40	215.5	90	38	35.5	BK2291
LB229.0040.1.K2.IK	40	172.5	30	38	35.5	BK2292
LB229.0040.2.K2.IK	40	185.5	60	38	35.5	BK2292
LB229.0040.3.K2.IK	40	215.5	90	38	35.5	BK2292

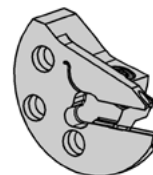
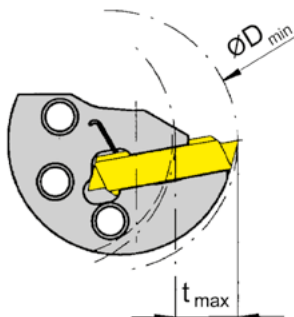
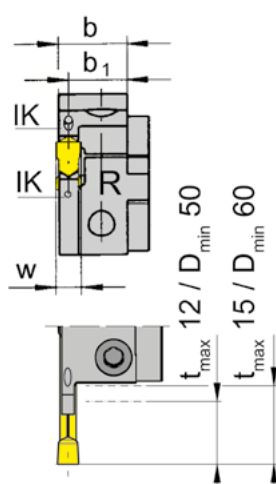
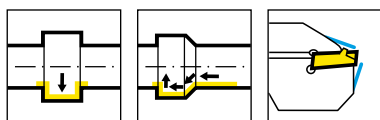
For the (w) dimension, see inserts

Note:
For cassettes BK229 **with** coolant supply

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB229...	030.0518.T20P	T20PQ	7 Nm



R = right hand version shown

L = left hand version

Part number	b	b ₁	HWS	HMS
RBK229.0050.03.IK	14.2	13	229030	BK2291
RBK229.0050.04.IK	14.15	12.5	229040	BK2291
RBK229.0050.05.IK	13.8	11.5	229050 • 229051	BK2291
LBK229.0050.03.IK	14.2	13	229030	BK2292
LBK229.0050.04.IK	14.15	12.5	229040	BK2292
LBK229.0050.05.IK	13.8	11.5	229050 • 229051	BK2292

For the (w) dimension, see inserts

Note:

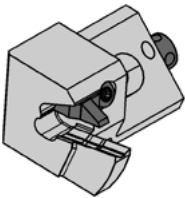
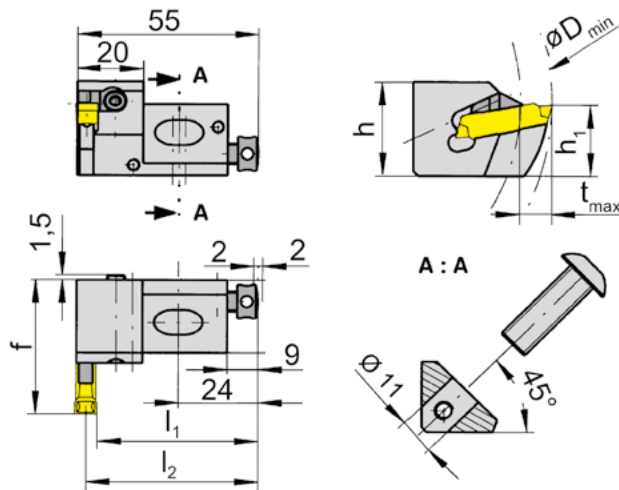
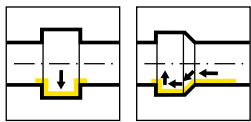
For basic toolholder B229 **with** coolant supply

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LBK229...	5.13T20EP	T20PQ	6 Nm



R = right hand version shown

L = left hand version

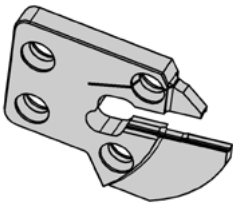
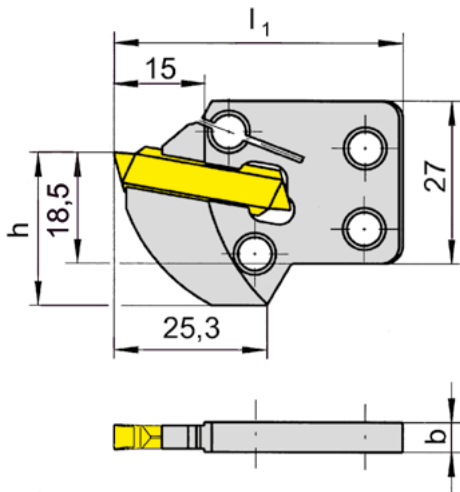
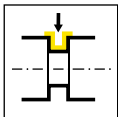
Part number	h	h ₁	f	l ₂	l ₁
R257.2222.05	29	22	42	52.2	l ₂ -w/2
R257.2222.07	29	22	42	51.2	l ₂ -w/2
R257.2222.09	29	22	42	50.2	l ₂ -w/2
L257.2222.05	29	22	42	52.2	l ₂ -w/2
L257.2222.07	29	22	42	51.2	l ₂ -w/2
L257.2222.09	29	22	42	50.2	l ₂ -w/2

For the (w) dimension, see inserts

Dimensions in mm

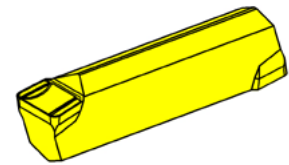
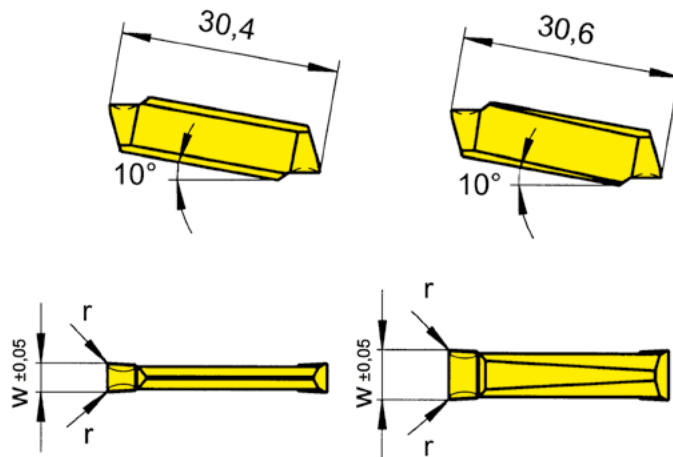
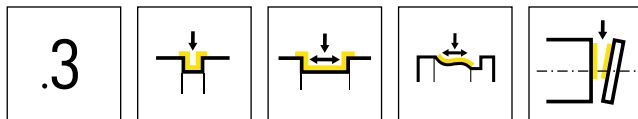
Spare Parts

Cartridge	Clamping Screw	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L257.2222.05	218.3	6.12.020	-	-	7 Nm
R/L257.2222.07	4.08.913	6.12.020	R218.5.7.32	T15PQ	3 Nm
R/L257.2222.09	4.08.913	6.12.020	R218.9.32	T15PQ	3 Nm



Part number	D _{min}	D _{min 2}	t _{max}	b	l ₁	h	HWS	HMS
050.1827.0009	62	80	10-14	4.9	47	18.5	229040	500000
050.1827.0071	62	80	10-14	4.9	47	18.5	229030	500000

Dimensions in mm



Coating grades

Width 3 - 5 mm

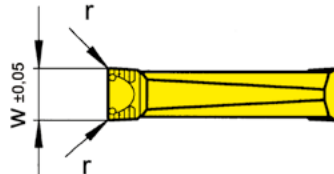
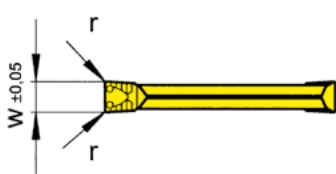
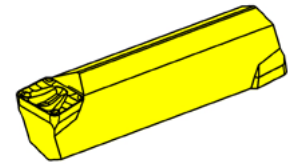
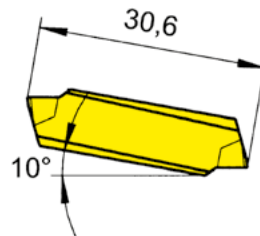
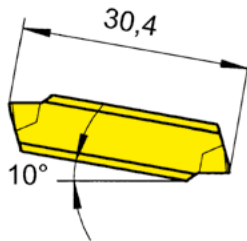
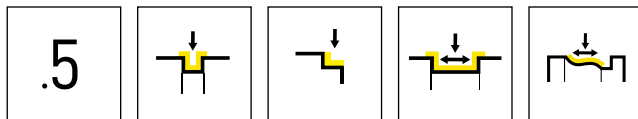
Width 6 - 10 mm

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AL96	AS62	AS66	H54	IG66	TF45	TI22	TI25	TN32	TN35
S229.0300.32	3	0.2	229020 • 229030		▲	▲	▲	▲	▲		▲	▲	▲
S229.0300.34	3	0.4	229020 • 229030	▲	▲	▲	▲	▲	▲	▲	▲	▲	▲
S229.0400.32	4	0.2	229030 • 229040		▲	▲	▲	▲	▲		▲	▲	▲
S229.0400.34	4	0.4	229030 • 229040		▲	▲	▲	▲	▲		▲	▲	▲
S229.0500.34	5	0.4	229040		▲	▲	Δ	▲	▲	▲	▲	▲	▲
S229.0500.36	5	0.6	229040					▲			Δ		
S229.0600.34	6	0.4	229051	▲	▲	▲	Δ	▲	▲	▲	▲	▲	▲
S229.0600.38	6	0.8	229051	▲	▲	▲		▲					
S229.0700.36	7	0.6	229071	Δ	▲			▲			▲		▲
S229.0800.36	8	0.6	229071 • 229081		▲			▲		▲	▲	▲	▲
S229.0800.38	8	0.8	229071 • 229081					▲					
S229.0800.3K	8	1.2	229071 • 229081					▲					
S229.1000.36	10	0.6	229091		▲			▲			▲	▲	▲
P	●	●	●	●	●	●	●	●	○	●	●	●	●
M	-	○	●	-	●	-	●	-	-	●	●	-	-
K	●	○	○	-	●	-	●	-	-	-	-	●	●
N	●	-	-	-	-	-	-	-	-	○	○	-	-
S	-	-	-	-	-	-	-	○	-	-	-	-	-
H	-	-	-	-	-	-	-	-	-	-	-	-	-

Dimensions in mm



Coating grades

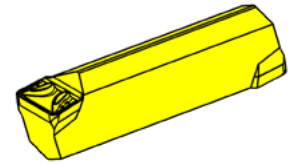
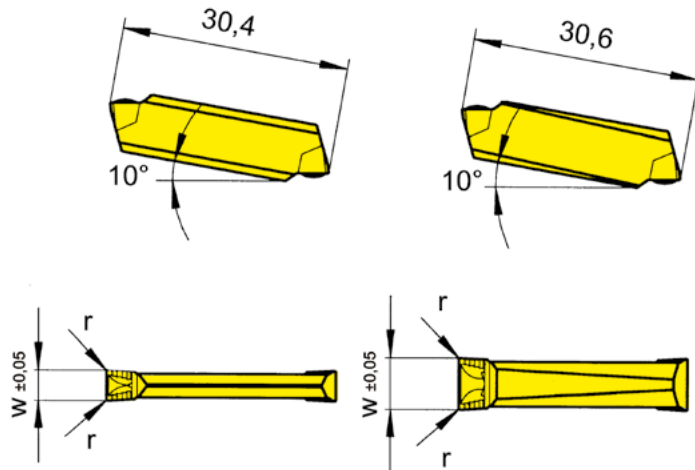
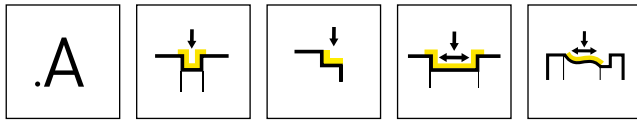
Width 3 - 5 mm

Width 6 - 10 mm

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	AS65	IG66	TF45	TI22	TI25	TN32	TN35
S229.0300.52	3	0.2	229020 • 229030	▲		▲	▲	▲	▲	▲	▲
S229.0300.54	3	0.4	229020 • 229030	▲		▲	▲	▲	▲	▲	▲
S229.0400.52	4	0.2	229030 • 229040	▲		▲	▲	▲	▲	▲	▲
S229.0400.54	4	0.4	229030 • 229040	▲		▲	▲	▲	▲	▲	▲
S229.0500.54	5	0.4	229040	▲		▲	▲	▲	▲	▲	▲
S229.0500.56	5	0.6	229040			▲			Δ		
S229.0600.54	6	0.4	229051	▲		▲	▲		▲	▲	▲
S229.0600.56	6	0.6	229051			▲			Δ		
S229.0600.58	6	0.8	229051	▲	Δ	▲					
S229.0700.56	7	0.6	229071	▲		▲		▲			
S229.0800.56	8	0.6	229071 • 229081	▲		▲		▲		▲	
S229.0800.5K	8	1.2	229071 • 229081			▲		▲			
S229.1000.56	10	0.6	229091			▲		▲		▲	
Dimensions in mm				P	●	●	●	o	●	●	●
				M	o	●	●	-	●	●	-
				K	o	o	●	-	-	-	●
				N	-	-	-	-	o	o	-
				S	-	-	o	-	-	-	-
				H	-	-	-	-	-	-	-



Coating grades

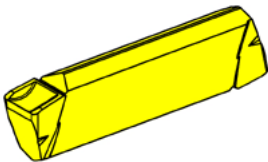
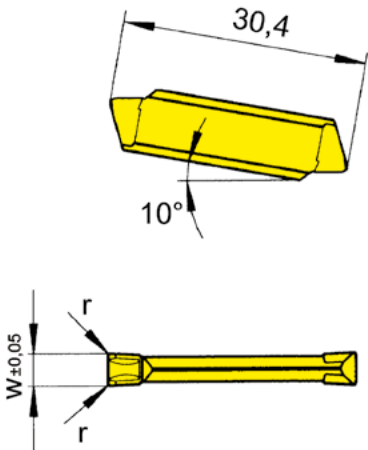
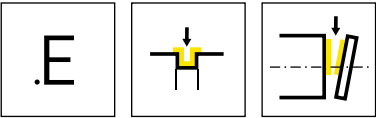
Width 3 - 5 mm

Width 6 - 10 mm

▲ In stock

△ 2 weeks

Part number	w	r	HIS	AS62	TF42	TF45	TI22	TI25	TN32	TN35
S229.0300.A2	3	0.2	229020 • 229030	▲		▲	▲	▲	▲	▲
S229.0300.A4	3	0.4	229020 • 229030	▲		▲	▲	▲	▲	▲
S229.0400.A2	4	0.2	229030 • 229040	▲		▲	▲	▲	▲	▲
S229.0400.A4	4	0.4	229030 • 229040	▲	▲	△	▲	▲	▲	▲
S229.0500.A4	5	0.4	229040	▲		▲	▲	△	▲	▲
S229.0500.A6	5	0.6	229040	▲				▲		
S229.0600.A4	6	0.4	229051	▲	▲	▲	▲	▲	▲	▲
S229.0600.A8	6	0.8	229051	▲						
S229.0700.A6	7	0.6	229071		▲				▲	
S229.0800.A6	8	0.6	229071 • 229081		△		▲		▲	
S229.0800.A8	8	0.8	229071 • 229081		△					
S229.0800.AK	8	1.2	229071 • 229081				△			
S229.1000.A6	10	0.6	229091							
S229.1000.A8	10	0.8	229091							
Dimensions in mm				P	●	●	○	●	●	●
				M	○	-	-	●	●	-
				K	○	-	-	-	●	●
				N	-	-	-	○	○	-
				S	-	-	-	-	-	-
				H	-	-	-	-	-	-



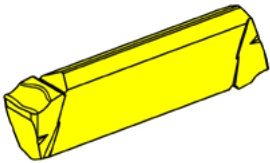
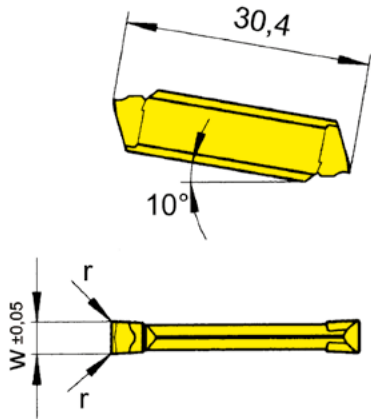
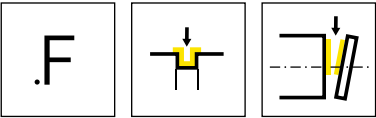
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		AS62	TF45	TF46	Ti25
S229.0300.E2	3	0.2	229020 • 229030	▲	▲	▲	▲	▲
S229.0300.E4	3	0.4	229020 • 229030	▲	▲	▲	▲	▲
S229.0400.E2	4	0.2	229030 • 229040	▲	▲	Δ	▲	▲
S229.0400.E4	4	0.4	229030 • 229040	▲	▲	▲	▲	▲
Dimensions in mm				P	•	o	o	•
				M	o	-	-	•
				K	o	-	-	-
				N	-	-	-	o
				S	-	-	-	-
				H	-	-	-	-



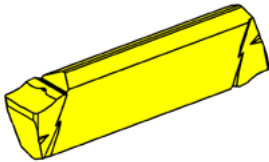
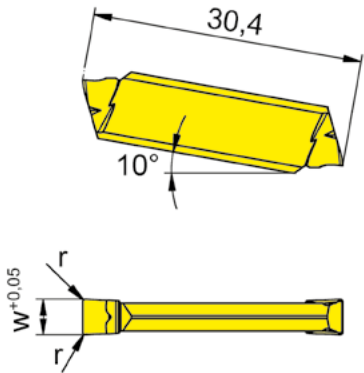
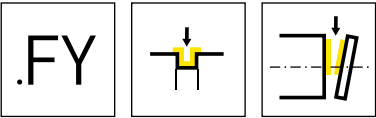


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		TF43	TF45	TF46	Ti22
S229.0300.F2	3	0.2	229020 • 229030	▲	▲	▲	▲	▲
S229.0300.F4	3	0.4	229020 • 229030		▲	Δ		
S229.0400.F2	4	0.2	229030 • 229040	Δ	▲	▲		
S229.0400.F4	4	0.4	229030 • 229040		▲	Δ		
Dimensions in mm				P	●	○	○	●
				M	-	-	-	●
				K	-	-	-	-
				N	-	-	-	○
				S	-	-	-	-
				H	-	-	-	-

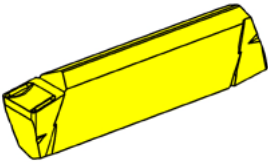
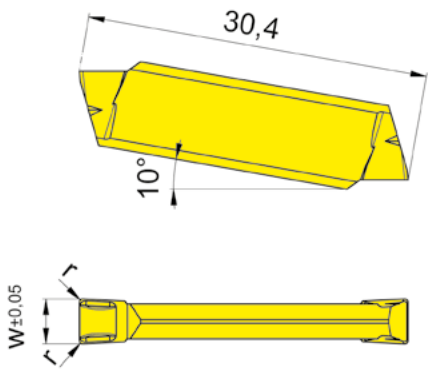
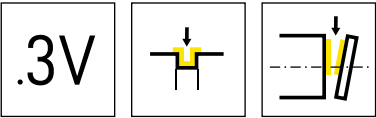


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		HP65	IG35	TI25
S229.0300.FY2	3	0.2	229020 • 229030		▲	▲	▲
S229.0400.FY3	4	0.3	229030 • 229040		▲	▲	▲
Dimensions in mm				P	●	●	●
				M	●	●	●
				K	●	●	-
				N	○	○	○
				S	●	○	-
				H	-	-	-



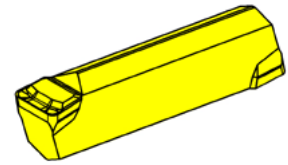
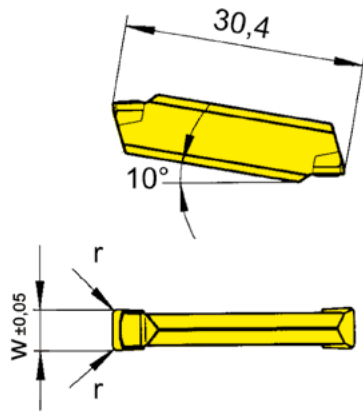
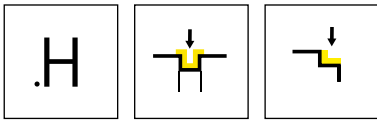


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS45	HP65	IG35
S229.0300.3V2	3	0.2	229020 • 229030		▲	▲	▲
S229.0400.3V3	4	0.3	229030 • 229040		▲	▲	▲
Dimensions in mm				P	•	•	•
				M	o	•	•
				K	o	•	•
				N	-	o	o
				S	-	•	o
				H	-	-	-





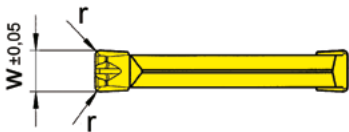
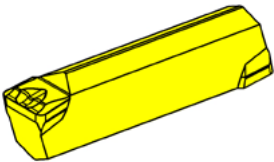
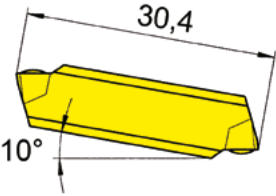
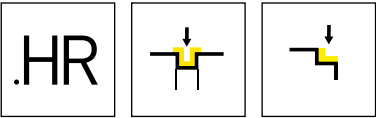
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	TF42
S229.0300.H4	3	0.4	229020 • 229030	▲
S229.0300.H6	3	0.6	229020 • 229030	▲
S229.0400.H4	4	0.4	229030 • 229040	▲
S229.0400.H6	4	0.6	229030 • 229040	▲
S229.0500.H4	5	0.4	229040	▲
S229.0500.H6	5	0.6	229040	▲
S229.0500.H8	5	0.8	229040	▲
S229.0600.H4	6	0.4	229051	▲
S229.0600.H6	6	0.6	229051	▲
S229.0600.H8	6	0.8	229051	▲
S229.0600.HK	6	1.2	229051	▲
Dimensions in mm				P •
				M -
				K -
				N -
				S -
				H -

H

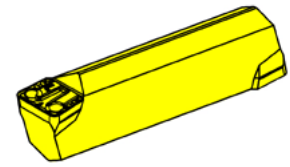
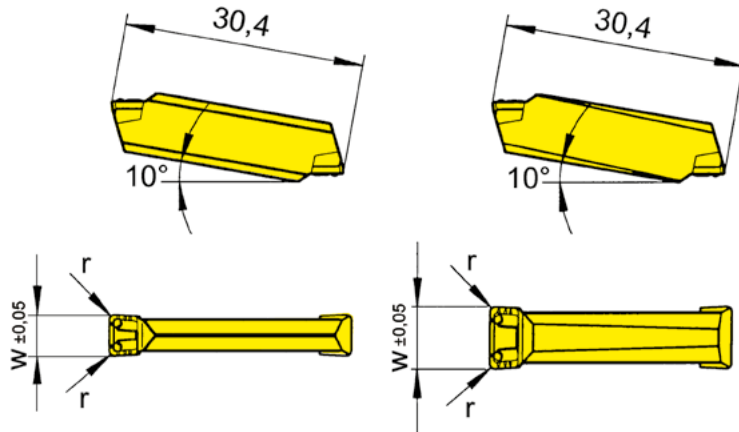
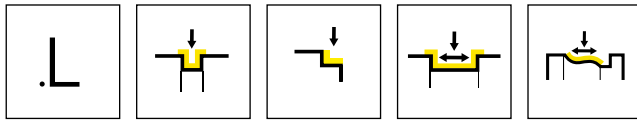


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	AS66	IG66
S229.0300.HR4	3	0.4	229020 • 229030	▲		▲
S229.0400.HR4	4	0.4	229030 • 229040	▲	▲	▲
S229.0500.HR4	5	0.4	229040	▲	▲	▲
S229.0500.HR6	5	0.6	229040	▲	▲	▲
S229.0500.HR8	5	0.8	229040	▲		▲
S229.0600.HR4	6	0.4	229050	▲	▲	▲
S229.0600.HR6	6	0.6	229050	▲	▲	▲
S229.0600.HR8	6	0.8	229050	▲		▲
S229.0800.HR8.PG	8	0.8	229071 • 229081	▲		▲
Dimensions in mm				P	●	●
				M	○	●
				K	○	○
				N	-	-
				S	-	○
				H	-	-



Coating grades

Width 4 - 5 mm

Width 6 - 8 mm

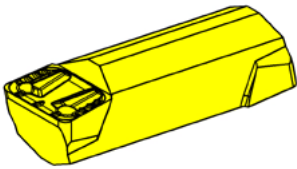
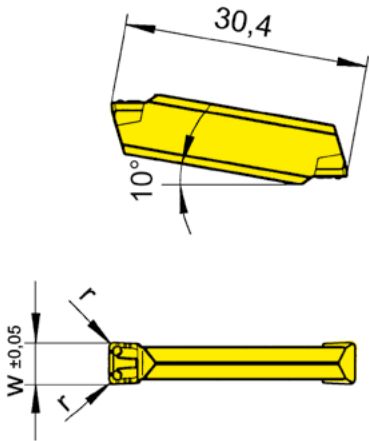
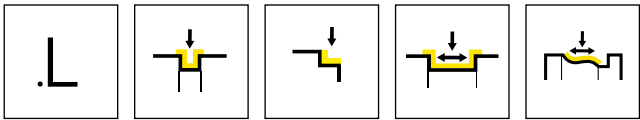
▲ In stock

△ 2 weeks

Part number	w	r	HIS	AS62	AS65	AS66	IG65	IG66	TF42	TI22
S229.0300.L2	3	0.2	229020 • 229030		▲		▲			
S229.0300.L4	3	0.4	229020 • 229030		▲		▲			
S229.0300.L6	3	0.6	229020 • 229030		▲		▲			
S229.0300.L8	3	0.8	229020 • 229030		▲		▲			
S229.0400.L4	4	0.4	229030 • 229040	▲		▲		▲	▲	▲
S229.0400.L6	4	0.6	229030 • 229040			△		▲		
S229.0500.L4	5	0.4	229040	▲		▲		▲	▲	▲
S229.0500.L6	5	0.6	229040	▲		▲		▲	▲	
S229.0500.L8	5	0.8	229040	▲		▲		▲	▲	
S229.0600.L4	6	0.4	229050	▲		▲		▲	▲	▲
S229.0600.L6	6	0.6	229050	▲		▲		▲	▲	▲
S229.0800.L6	8	0.6	229071	▲		▲		▲	▲	▲
P	•	•	•	•	•	•	•	•	•	•
M	o	•	•	•	•	•	•	-	-	•
K	o	o	o	•	•	•	•	-	-	-
N	-	-	-	-	-	-	-	-	-	o
S	-	-	-	o	o	o	o	o	-	-
H	-	-	-	-	-	-	-	-	-	-

Dimensions in mm

H



Coating grades

▲ In stock

Δ 2 weeks

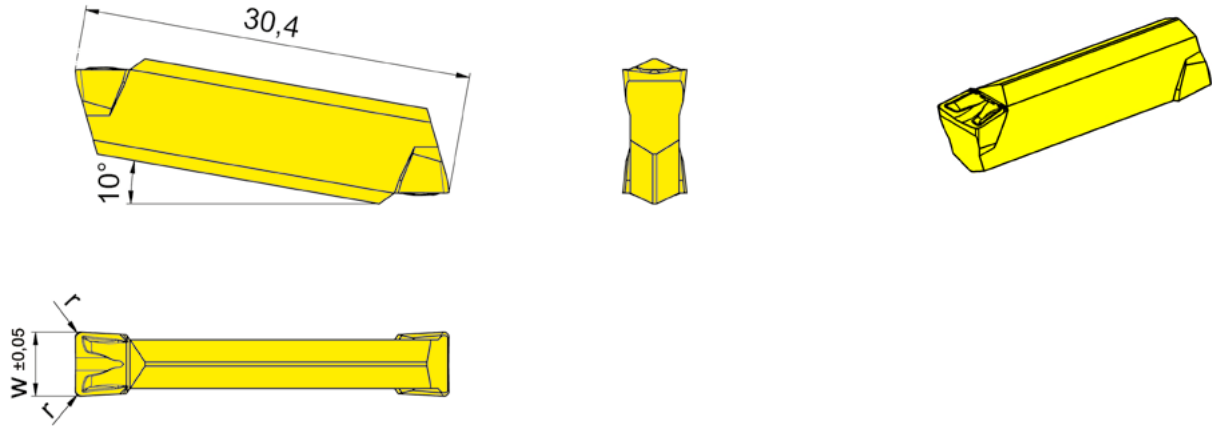
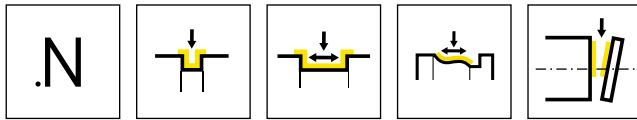
Part number	w	r	HIS	AS62	IG66
S229.0600.L4.PG	6	0.4	229050	▲	
S229.0800.L8.PG	8	0.8	229071 • 229081	▲	▲

These inserts feature a ground periphery for better finishes and tighter tolerances.

Dimensions in mm

P	●	●
M	o	●
K	o	●
N	-	-
S	-	o
H	-	-





Coating grades

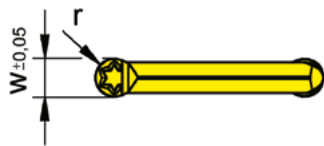
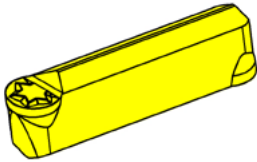
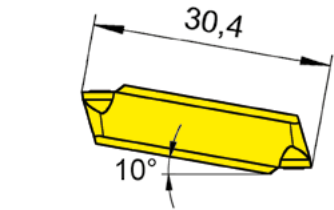
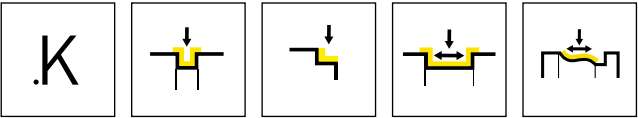
▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS45	AS62	IG66	TI25
S229.0300.N2.G	3	0.2	229020 • 229030	▲		▲	
S229.0300.N4.G	3	0.4	229020 • 229030	▲		▲	
S229.0400.N2.G	4	0.2	229030 • 229040	▲		▲	
S229.0400.N4.G	4	0.4	229030 • 229040	▲		▲	
S229.0500.N2.G	5	0.2	229040			▲	▲
S229.0500.N4.G	5	0.4	229040	▲	▲	▲	▲
S229.0500.N6.G	5	0.6	229040	▲	▲	▲	▲
S229.0500.N8.G	5	0.8	229040		▲	▲	
S229.0600.N4.G	6	0.4	229050	▲		▲	
S229.0600.N6.G	6	0.6	229050	▲		▲	
				P	•	•	•
				M	o	o	•
				K	o	o	-
				N	-	-	o
				S	-	o	-
				H	-	-	-

Dimensions in mm

H

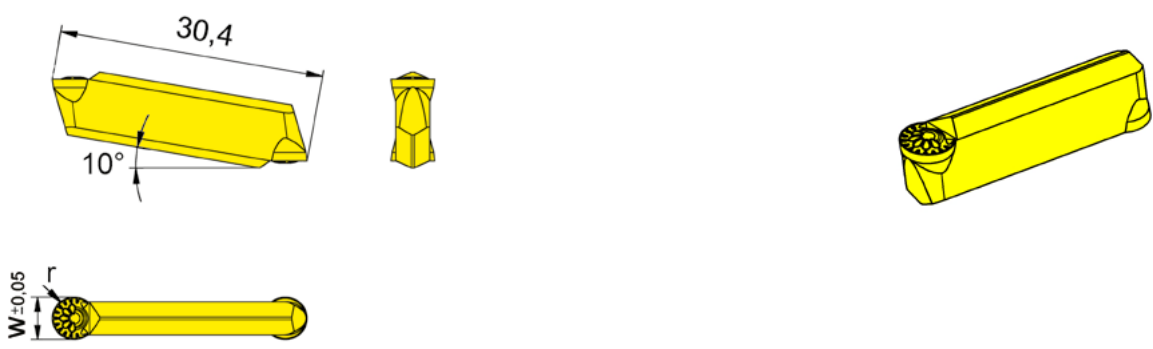
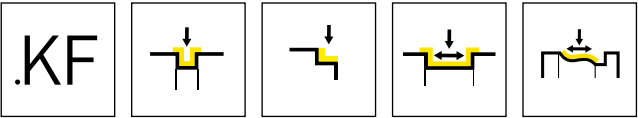


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		AS62	AS66	IG66
S229.0015.K3	3	1.5	229020 • 229030		▲	▲	▲
S229.0020.K4	4	2	229030 • 229040		▲	▲	▲
S229.0025.K5	5	2.5	229040		▲	▲	▲
S229.0030.K6	6	3	229050		▲	▲	▲
S229.0040.K8	8	4	229070 • 229080		▲		▲
Dimensions in mm				P	•	•	•
				M	o	•	•
				K	o	o	•
				N	-	-	-
				S	-	-	o
				H	-	-	-

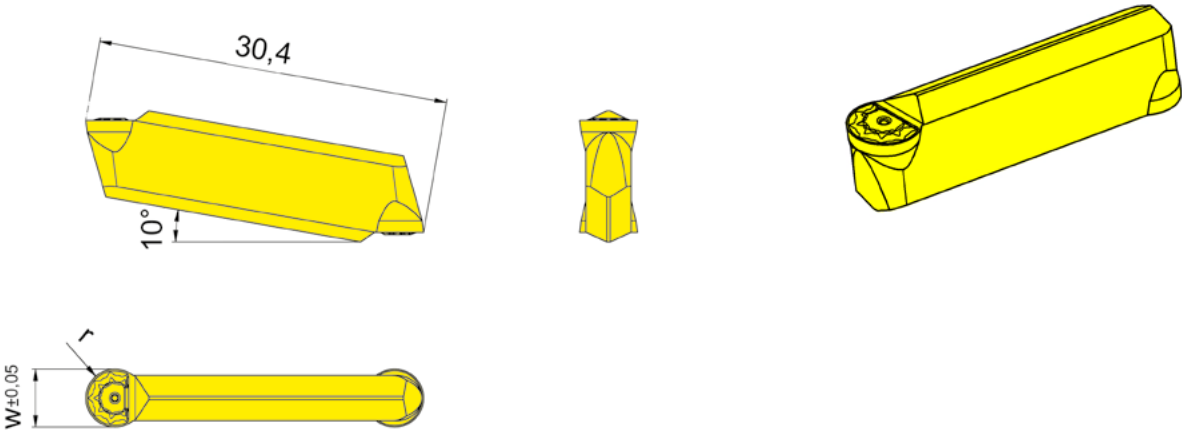
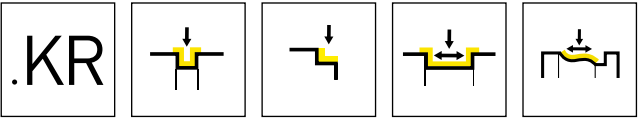


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	AS66	IG66
S229.0015.KF3	3	1.5	229020 • 229030	▲	▲
S229.0020.KF4	4	2	229030 • 229040	▲	▲
S229.0025.KF5	5	2.5	229040	▲	▲
S229.0030.KF6	6	3	229050	▲	▲
S229.0040.KF8	8	4	229070 • 229080	▲	▲
Dimensions in mm				P	•
				M	•
				K	o
				N	-
				S	-
				H	-



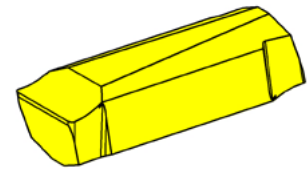
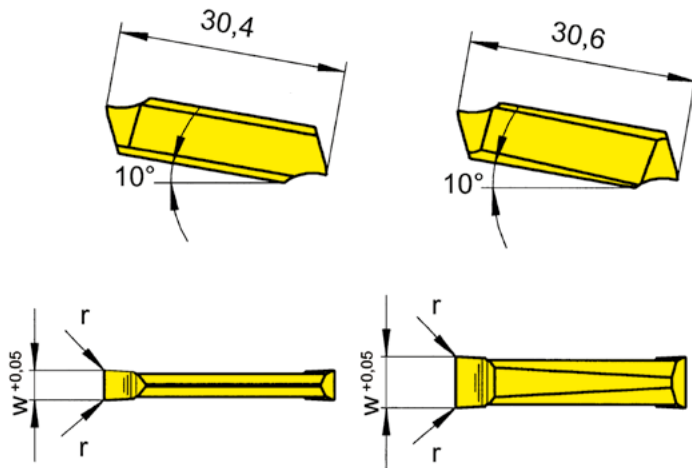
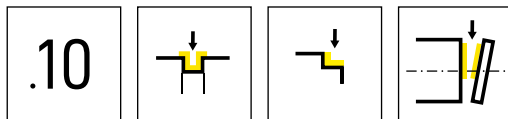


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	IG66
S229.0020.KR4	4	2	229030 • 229040	▲
S229.0025.KR5	5	2.5	229040	▲
S229.0030.KR6	6	3	229050	▲
				P ●
				M ●
				K ●
				N -
				S o
				H -

Dimensions in mm



Coating grades

Width of groove 2,5 - 5,0 mm

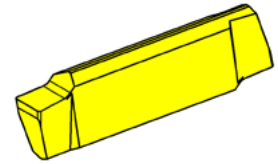
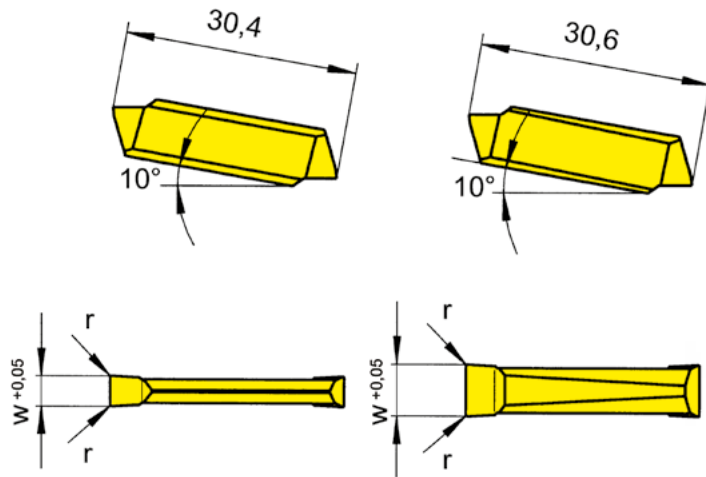
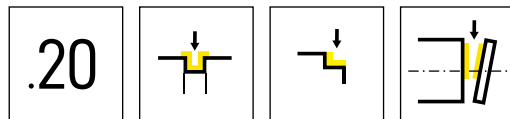
Width 5,1 - 10,4 mm

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	IG66	TN32	TN35
229.0250.10	2.5	0.2	229020	▲	▲	▲	▲
229.0300.10	3	0.2	229020 • 229030	▲	▲	▲	▲
229.0400.10	4	0.2	229030 • 229040	▲	▲	▲	▲
229.0500.10	5	0.2	229040	▲	Δ	▲	▲
229.0600.10	6	0.4	229051		Δ	Δ	Δ
229.0700.10	7	0.4	229071		Δ	Δ	Δ
229.0800.10	8	0.4	229071 • 229081		Δ	Δ	Δ
229.0900.10	9	0.4	229091		Δ	Δ	Δ
229.1000.10	10	0.4	229091		Δ	Δ	Δ
Precision ground geometry				P	●	●	●
Dimensions in mm				M	o	●	-
				K	o	●	●
				N	-	-	-
				S	-	o	-
				H	-	-	-

H



Coating grades

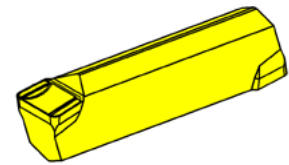
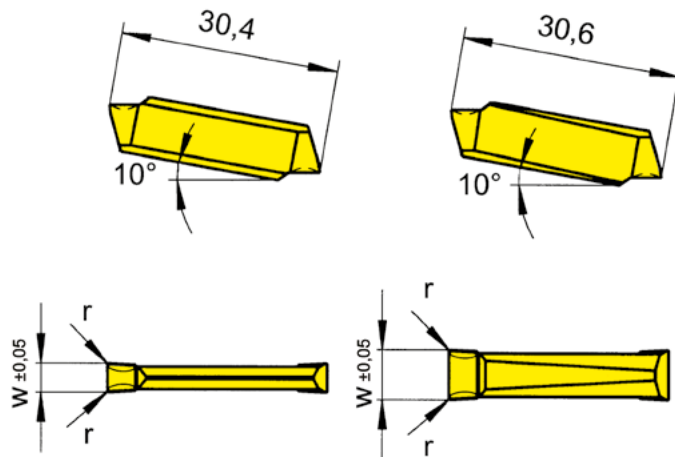
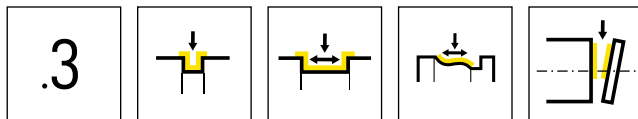
Width 3 - 5 mm

Width 5,1 - 10,4 mm

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	IG66	TN32
229.0300.20	3	0.2	229020 • 229030	▲	Δ	
229.0400.20	4	0.2	229030 • 229040	▲	Δ	▲
229.0500.20	5	0.2	229040	▲	Δ	
229.0600.20	6	0.4	229051	▲	Δ	
229.0700.20	7	0.4	229071		Δ	
229.0800.20	8	0.4	229071 • 229081		Δ	
229.0900.20	9	0.4	229091		Δ	
229.1000.20	10	0.4	229091		Δ	
Precision ground geometry				P	●	●
Dimensions in mm				M	o	-
				K	o	●
				N	-	-
				S	-	o
				H	-	-



Coating grades

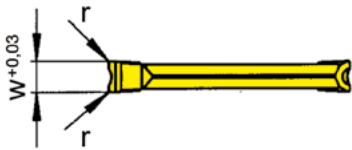
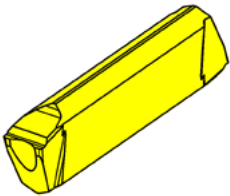
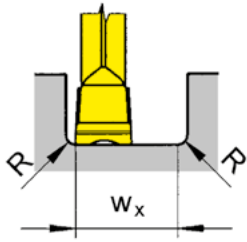
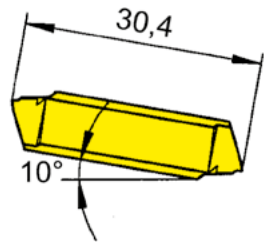
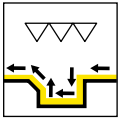
Width 3 - 5 mm

Width 5,1 - 10,4 mm

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	IG66	TN35
229.0300.31	3	0.2	229020 • 229030	▲	▲	▲
229.0300.34	3	0.4	229020 • 229030	▲	▲	▲
229.0350.31	3.5	0.2	229030	▲	▲	▲
229.0400.31	4	0.2	229030 • 229040	▲	▲	▲
229.0400.34	4	0.4	229030 • 229040	▲	▲	▲
229.0500.31	5	0.2	229040	▲	▲	▲
229.0500.34	5	0.4	229040	▲	Δ	▲
229.0500.36	5	0.6	229040	▲	Δ	▲
229.0600.31	6	0.4	229051	▲	Δ	▲
229.0600.38	6	0.8	229051	▲	Δ	▲
229.0700.31	7	0.4	229071	▲	Δ	▲
229.0800.31	8	0.4	229071 • 229081	▲	Δ	▲
229.0900.31	9	0.4	229091	▲	Δ	▲
229.1000.31	10	0.4	229091	▲	Δ	▲
Precision ground geometry				P	●	●
Dimensions in mm				M	o	●
				K	o	●
				N	-	-
				S	-	-
				H	-	-

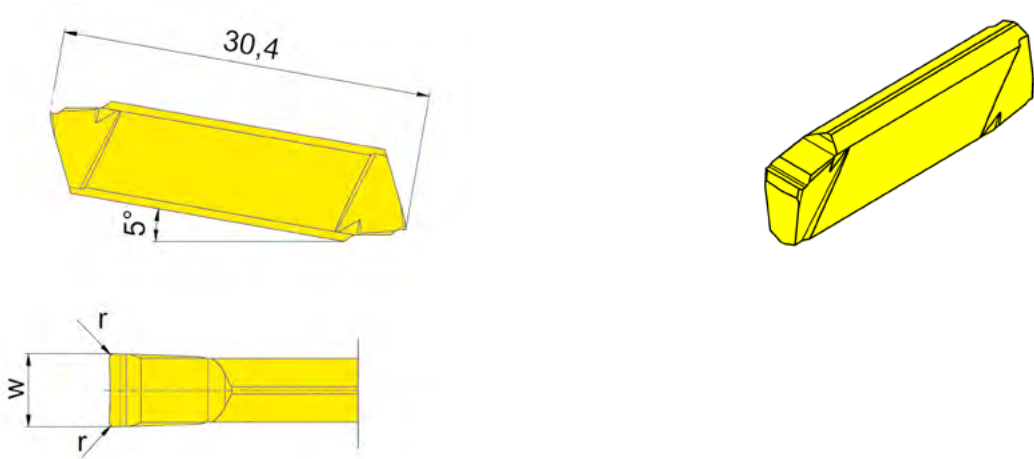
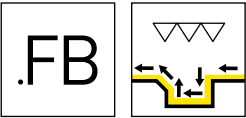


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	w _x	HIS	H20
229.NC30.02	3	0.2	4.5	229030 • 229040	▲
229.NC40.02	4	0.2	6.4	229030 • 229040	▲
This insert is designed for finishing					P ●
wx = width of groove - R(right) - R(left)					M o
Dimensions in mm					K -
					N -
					S -
					H -

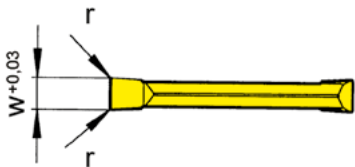
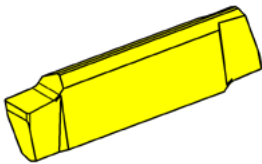
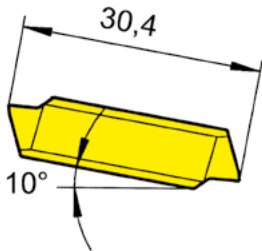
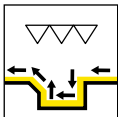


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		H20
229.FB30.02	3	0.2	229030		▲
229.FB40.02	4	0.2	229040		▲
This insert is designed for finishing					P ●
Dimensions in mm					M o
					K -
					N -
					S -
					H -





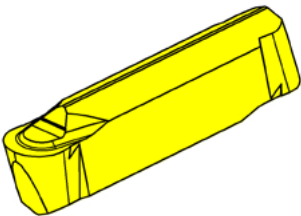
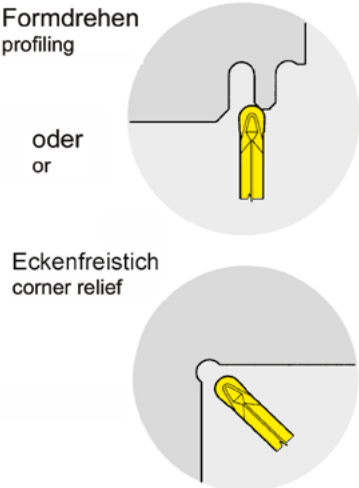
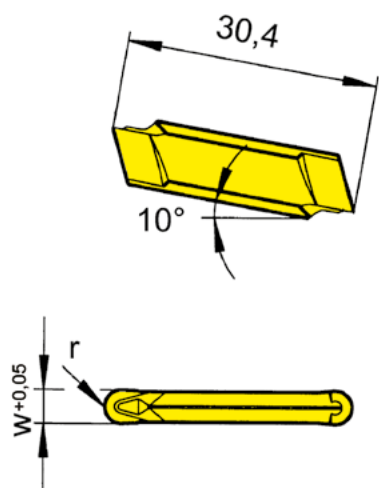
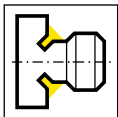
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		H20
229.0300.02	3	0.2	229020 • 229030		▲
229.0400.02	4	0.2	229030 • 229040		▲
This insert is designed for finishing				P	●
Dimensions in mm				M	o
				K	-
				N	-
				S	-
				H	-



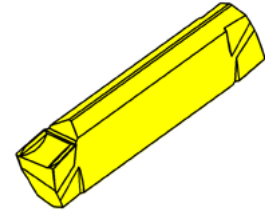
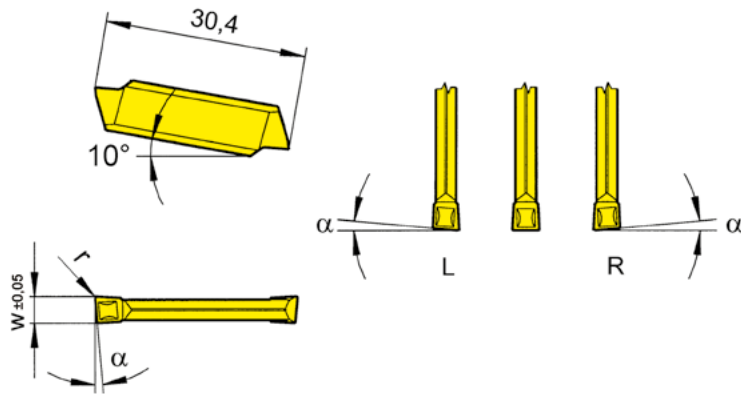
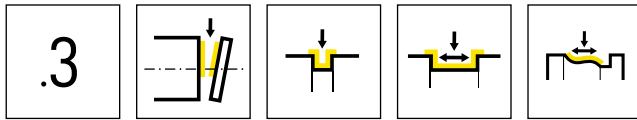


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS62	AS66	TN32
229.0015.30	3	1.5	229020 • 229030		▲		▲
229.0020.40	4	2	229030 • 229040		▲		▲
229.0025.50	5	2.5	229040			▲	▲
229.0030.60	6	3	229050		▲		▲
Dimensions in mm				P	•	•	•
				M	o	•	-
				K	o	o	•
				N	-	-	-
				S	-	-	-
				H	-	-	-





Coating grades

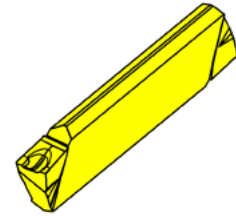
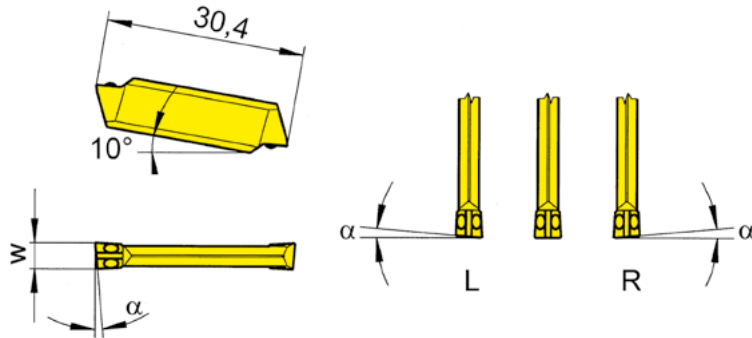
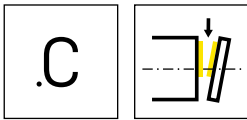
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS		AS62	TF45	TI25	TN32	TN35
R229.5300.31	3	0.2	5°	229020 • 229030		▲		▲	▲	▲
RS229.0530.32	3	0.2	5°	229020 • 229030		▲	▲	▲	▲	▲
RS229.0540.32	4	0.2	5°	229030 • 229040		▲	▲	▲	▲	
L229.5300.31	3	0.2	5°	229020 • 229030		▲		▲	▲	▲
LS229.0530.32	3	0.2	5°	229020 • 229030		▲	▲	▲	▲	▲
LS229.0540.32	4	0.2	5°	229030 • 229040			▲	▲	▲	
R/L229.5300.31 precision ground, length 30,0 mm					P	•	o	•	•	•
Dimensions in mm					M	o	-	•	-	-
					K	o	-	-	•	•
					N	-	-	o	-	-
					S	-	-	-	-	-
					H	-	-	-	-	-



Coating grades

R = right hand version shown

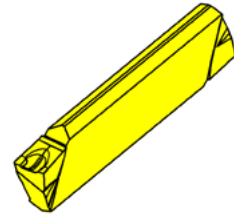
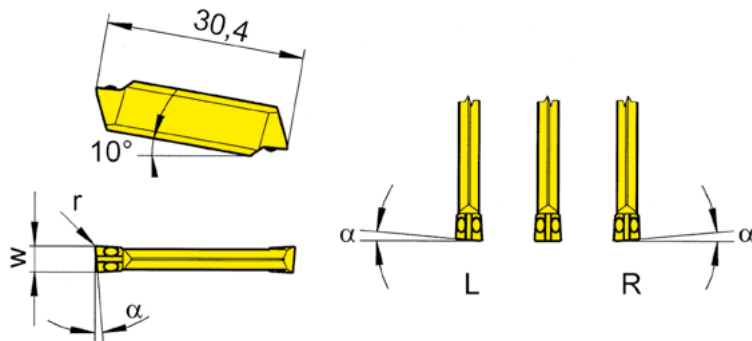
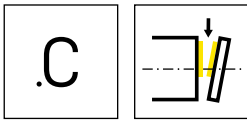
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	α	HIS	TF45	TI25	TN35
RS229.0530.C0	3	5°	229020 • 229030	▲	▲	▲
RS229.0540.C0	4	5°	229030 • 229040	Δ	Δ	▲
RS229.0830.C0	3	8°	229020 • 229030	▲	▲	▲
RS229.0840.C0	4	8°	229030 • 229040	Δ	▲	▲
LS229.0530.C0	3	5°	229020 • 229030	▲	▲	▲
LS229.0540.C0	4	5°	229030 • 229040	Δ	Δ	
LS229.0830.C0	3	8°	229020 • 229030	▲	▲	▲
LS229.0840.C0	4	8°	229030 • 229040	Δ	Δ	Δ
S229.0030.C0	3	0°	229020 • 229030	▲	▲	▲
S229.0040.C0	4	0°	229030 • 229040	Δ	▲	▲
Dimensions in mm				P	o	•
				M	-	•
				K	-	•
				N	-	o
				S	-	-
				H	-	-

H



Coating grades

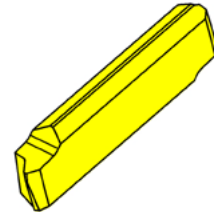
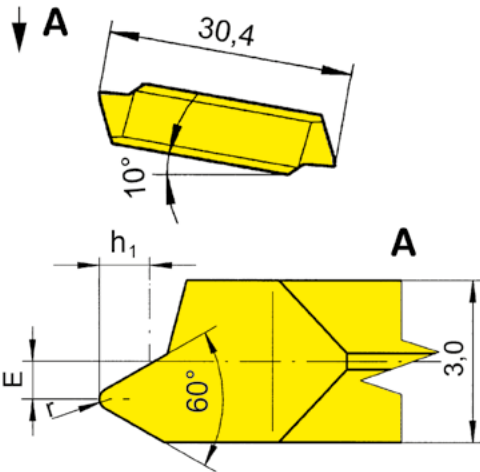
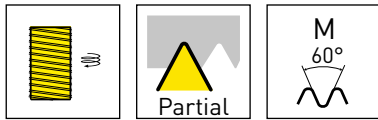
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	TF45	TI25	TN35
RS229.0530.C1	3	0.15	5°	229020 • 229030	Δ	▲	▲
RS229.0830.C1	3	0.15	8°	229020 • 229030	▲	▲	▲
RS229.0540.C1	4	0.15	5°	229030 • 229040	Δ	Δ	Δ
RS229.0840.C1	4	0.15	8°	229030 • 229040	Δ	Δ	▲
LS229.0530.C1	3	0.15	5°	229020 • 229030	Δ	▲	▲
LS229.0830.C1	3	0.15	8°	229020 • 229030	▲	Δ	▲
LS229.0540.C1	4	0.15	5°	229030 • 229040	Δ		Δ
LS229.0840.C1	4	0.15	8°	229030 • 229040	Δ	Δ	Δ
S229.0030.C1	3	0.15	0°	229020 • 229030	▲	▲	▲
S229.0040.C1	4	0.15	0°	229030 • 229040	Δ		Δ
Dimensions in mm					P	o	•
					M	-	•
					K	-	•
					N	-	o
					S	-	-
					H	-	-



Coating grades

R = right hand version shown

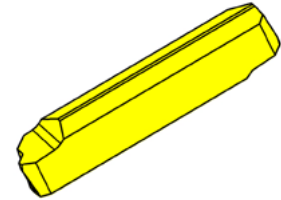
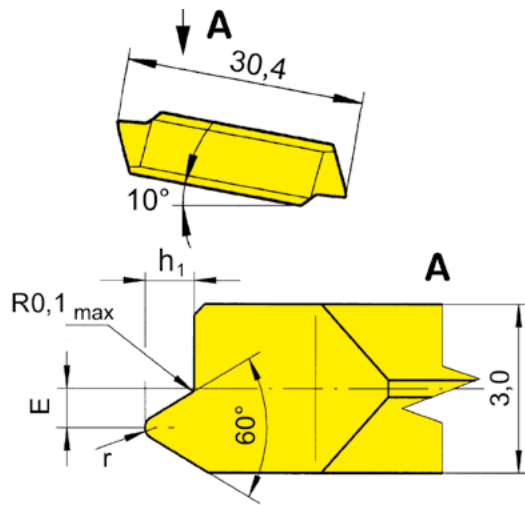
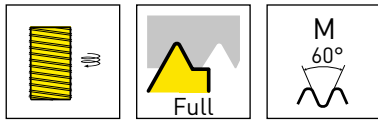
L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	TN35
R229.0610.01	1	34-26	0.8	0.12	0.61	229030 • 229040	▲
R229.0712.01	1.25	28-22	0.8	0.15	0.77	229030 • 229040	▲
R229.0915.01	1.5	20-18	0.7	0.2	0.92	229030 • 229040	▲
R229.1017.01	1.75	16-14	0.5	0.25	1.07	229030 • 229040	▲
R229.1220.01	2	14-13	0.5	0.25	1.23	229030 • 229040	▲
R229.1525.01	2.5	10-8	0.3	0.35	1.53	229030 • 229040	▲
L229.0610.01	1	34-26	0.8	0.12	0.61	229030 • 229040	▲
L229.0712.01	1.25	28-22	0.8	0.15	0.77	229030 • 229040	▲
L229.0915.01	1.5	20-18	0.7	0.2	0.92	229030 • 229040	▲
L229.1017.01	1.75	16-14	0.5	0.25	1.07	229030 • 229040	▲
L229.1220.01	2	14-13	0.5	0.25	1.23	229030 • 229040	▲
L229.1525.01	2.5	10-8	0.3	0.35	1.53	229030 • 229040	▲
Particularly suitable for threading behind a shoulder							P ●
Dimensions in mm							M -
							K ●
							N -
							S -
							H -

H



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

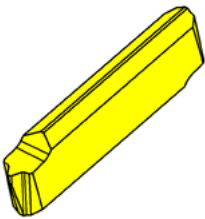
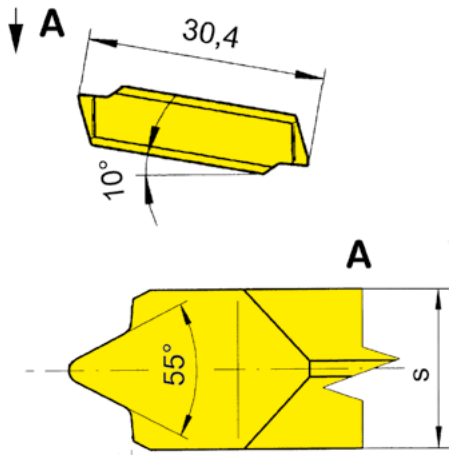
△ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	TN35
R229.0610.02	1	34-26	0.8	0.14	0.62	229030 • 229040	▲
R229.0712.02	1.25	28-22	0.8	0.175	0.78	229030 • 229040	▲
R229.0915.02	1.5	20-18	0.7	0.21	0.93	229030 • 229040	▲
R229.1017.02	1.75	16-14	0.5	0.25	1.08	229030 • 229040	▲
R229.1220.02	2	14-13	0.5	0.28	1.24	229030 • 229040	▲
R229.1525.02	2.5	10-8	0.3	0.36	1.54	229030 • 229040	▲
L229.0610.02	1	34-26	0.8	0.14	0.62	229030 • 229040	▲
L229.0712.02	1.25	28-22	0.8	0.175	0.78	229030 • 229040	▲
L229.0915.02	1.5	20-18	0.7	0.21	0.93	229030 • 229040	▲
L229.1017.02	1.75	16-14	0.5	0.25	1.08	229030 • 229040	▲
L229.1220.02	2	14-13	0.5	0.28	1.24	229030 • 229040	▲
L229.1525.02	2.5	10-8	0.3	0.36	1.54	229030 • 229040	▲

Particularly suitable for threading behind a shoulder

Dimensions in mm

P	•
M	-
K	•
N	-
S	-
H	-



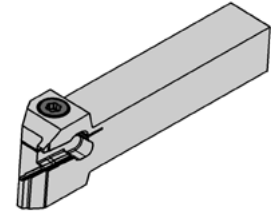
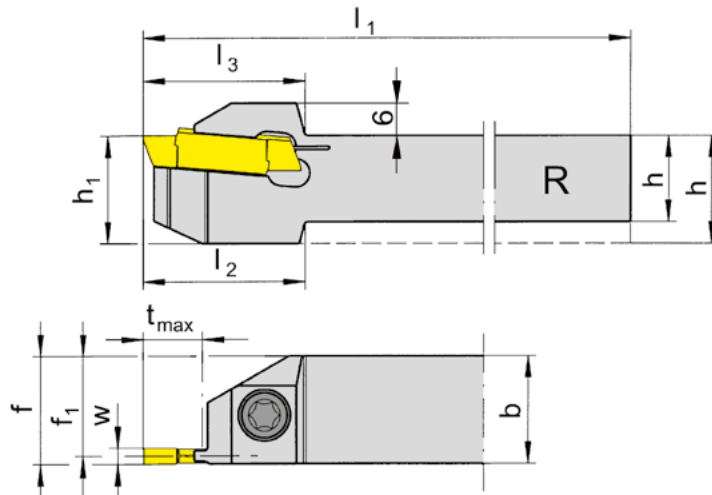
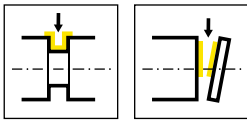
Coating grades

▲ In stock

Δ 2 weeks

Part number	TPI	s	HIS		TA45	TN35
N229.5511.02	11	3.5	229030 • 229040		Δ	▲
N229.5514.02	14	3	229030 • 229040		▲	▲
N229.5519.02	19	3	229030 • 229040		Δ	▲
N229.5528.02	28	3	229030 • 229040			▲
Particularly suitable for threading behind a shoulder				P	o	•
				M	o	-
				K	-	•
				N	-	-
				S	-	-
Dimensions in mm				H	-	-





R = right hand version shown

L = left hand version

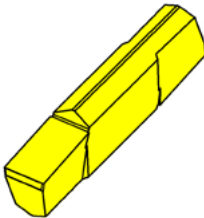
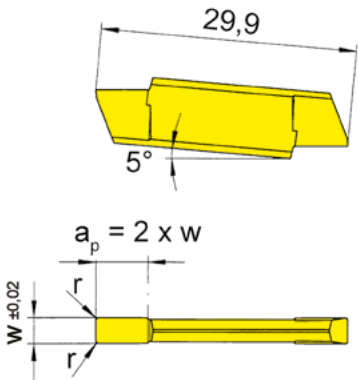
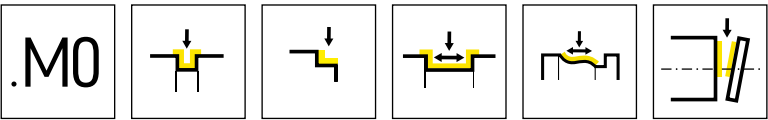
Part number	h	b	l_1	l_2	l_3	h_1	f	f_1	t_{max}	HWS
RH259.1616.03	16	16	135	30	30	20	$f_1+w/2$	14.55	11	229030
RH259.2020.03	20	20	135	-	30	20	$f_1+w/2$	18.55	11	229030
RH259.2525.03	25	25	135	-	30	25	$f_1+w/2$	23.55	11	229030
RH259.1616.13	16	16	135	33	33	20	$f_1+w/2$	14.55	18	229030
RH259.2020.13	20	20	135	-	33	20	$f_1+w/2$	18.55	18	229030
RH259.2525.13	25	25	135	-	33	25	$f_1+w/2$	23.55	18	229030
LH259.1616.03	16	16	135	30	30	20	$f_1+w/2$	14.55	11	229030
LH259.2020.03	20	20	135	-	30	20	$f_1+w/2$	18.55	11	229030
LH259.2525.03	25	25	135	-	30	25	$f_1+w/2$	23.55	11	229030
LH259.1616.13	16	16	135	33	33	20	$f_1+w/2$	14.55	18	229030
LH259.2020.13	20	20	135	-	33	20	$f_1+w/2$	18.55	18	229030
LH259.2525.13	25	25	135	-	33	25	$f_1+w/2$	23.55	18	229030

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH259...	6.23T25P	T25PQ	7 Nm



Usable length of minor cutting edge a_p 2 x w for machining brass (Ms58) ▲ In stock Δ 2 weeks

Part number	w	r	HIS	MG12
259.0300.M1	3	0.15	229030	▲
259.0300.M2	3	0.2	229030	▲
259.0400.M1	4	0.15	229030	▲
259.0400.M2	4	0.2	229030	▲
Dimensions in mm				P -
				M -
				K -
				N •
				S -
				H -



This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.



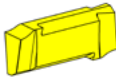
SYSTEM 231

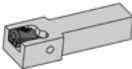
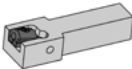
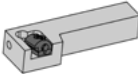
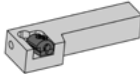
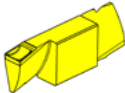
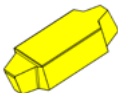
INTERNAL AND EXTERNAL GROOVING AND THREADING, EXTERNAL FACE GROOVING

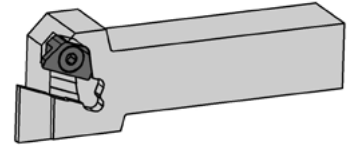
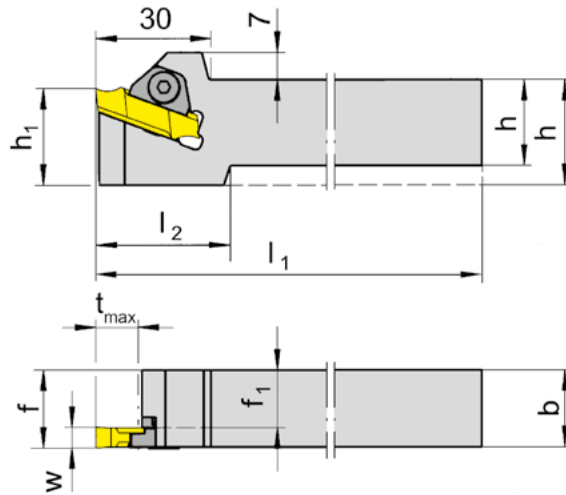
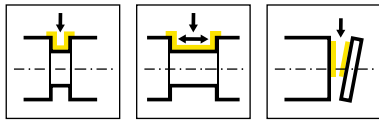
.098"-.393", 2.5-10mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

INSERTS, HOLDERS	Square Shank		Grooving, Part Off
			
	Page 334-335 Grooving and Part Off Metric Shank	Page 336 Cartridge Internal Grooving	Page 338 .10 Geometry Grooving and Part Off

INSERTS, HOLDERS	Face Grooving and Threading			
				
	Page 339 U221 Inch Shank	Page 340 221 Metric Shank	Page 341 U228 Inch Shank	Page 342 228 Metric Shank
	Face Grooving		Threading	
				
	Page 343 .3 Chipbreaker Face Grooving	Page 344 Full Profile Trapezoidal Thread		



R = right hand version shown

L = left hand version

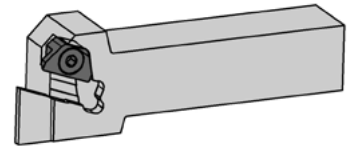
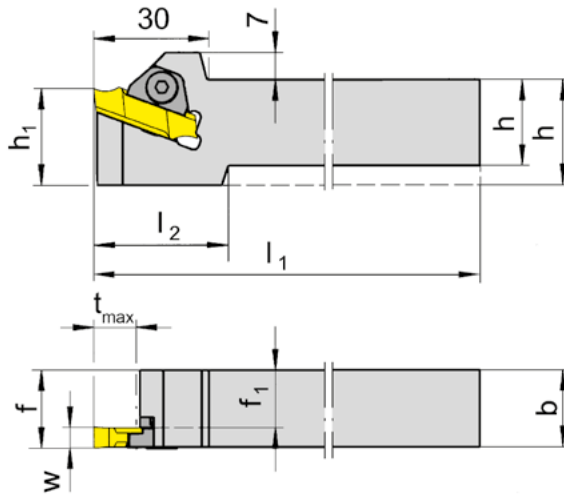
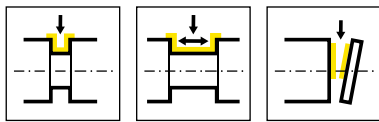
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R211.2020.02	20	20	125	35	25	17.5	f_1+w-a_1	11	23102R
R211.2525.02	25	25	150	-	25	22.5	f_1+w-a_1	11	23102R
R211.3232.02	32	32	170	-	32	29.5	f_1+w-a_1	11	23102R
R211.2020.03	20	20	125	35	25	17	f_1+w-a_1	11	23103R
R211.2525.03	25	25	150	-	25	22	f_1+w-a_1	11	23103R
R211.3232.03	32	32	170	-	32	29	f_1+w-a_1	11	23103R
R211.3232.04	32	32	170	-	32	28	f_1+w-a_1	11	23104R • 23104N
L211.2020.02	20	20	125	35	25	17.5	f_1+w-a_1	11	23102L
L211.2525.02	25	25	150	-	25	22.5	f_1+w-a_1	11	23102L
L211.3232.02	32	32	170	-	32	29.5	f_1+w-a_1	11	23102L
L211.2020.03	20	20	125	35	25	17	f_1+w-a_1	11	23103L
L211.2525.03	25	25	150	-	25	22	f_1+w-a_1	11	23103L
L211.3232.03	32	32	170	-	32	29	f_1+w-a_1	11	23103L
L211.2020.04	20	20	125	35	25	16	f_1+w-a_1	11	23104L • 23104N
L211.2525.04	25	25	150	-	25	21	f_1+w-a_1	11	23104L • 23104N
L211.3232.04	32	32	170	-	32	28	f_1+w-a_1	11	23104L • 23104N

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L211...	6.19	2.16.2	SW3DIN911	3 Nm
R/L211...	6.19	2.16.3	SW3DIN911	3 Nm
L211....	6.19	2.16.7	SW3DIN911	3 Nm



R = right hand version shown

L = left hand version

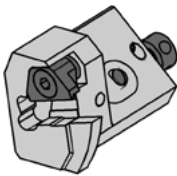
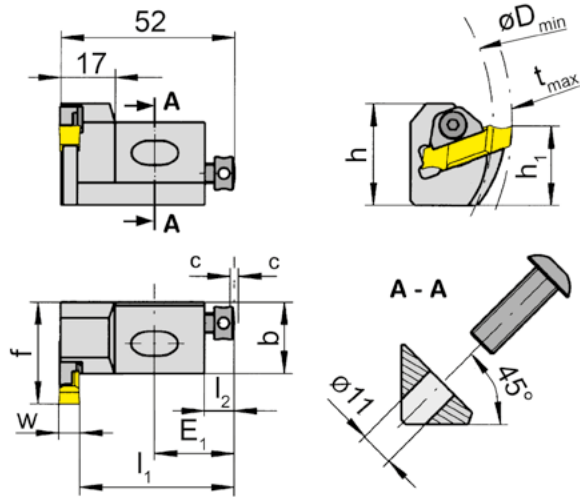
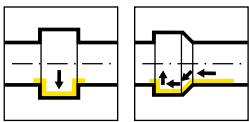
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R211.2020.05	20	20	125	35	25	15	$f_1 + w - a_1$	11	23105R • 23105N
R211.2525.05	25	25	150	-	25	20	$f_1 + w - a_1$	11	23105R • 23105N
R211.3232.05	32	32	170	-	32	27	$f_1 + w - a_1$	11	23105R • 23105N
R211.2020.07	20	20	125	35	25	13	$f_1 + w - a_1$	11	23107R • 23107N
R211.2525.07	25	25	150	-	25	18	$f_1 + w - a_1$	11	23107R • 23107N
R211.3232.07	32	32	170	-	32	25	$f_1 + w - a_1$	11	23107R • 23107N
R211.2020.09	20	20	125	35	25	11	$f_1 + w - a_1$	11	23109R • 23109N
R211.2525.09	25	25	150	-	25	16	$f_1 + w - a_1$	11	23109R • 23109N
R211.3232.09	32	32	170	-	32	23	$f_1 + w - a_1$	11	23109R • 23109N
L211.2020.05	20	20	125	35	25	15	$f_1 + w - a_1$	11	23105L • 23105N
L211.2525.05	25	25	150	-	25	20	$f_1 + w - a_1$	11	23105L • 23105N
L211.3232.05	32	32	170	-	32	27	$f_1 + w - a_1$	11	23105L • 23105N
L211.2020.07	20	20	125	35	25	13	$f_1 + w - a_1$	11	23107L • 23107N
L211.2525.07	25	25	150	-	25	18	$f_1 + w - a_1$	11	23107L • 23107N
L211.3232.07	32	32	170	-	32	25	$f_1 + w - a_1$	11	23107L • 23107N
L211.2525.09	25	25	150	-	25	16	$f_1 + w - a_1$	11	23109L • 23109N
L211.3232.09	32	32	170	-	32	23	$f_1 + w - a_1$	11	23109L • 23109N

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L211...	6.19	2.16.7	SW3DIN911	3 Nm



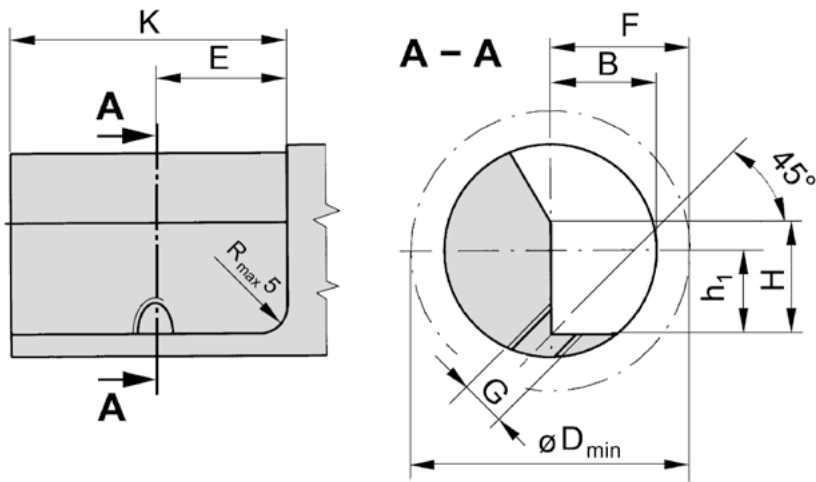
R = right hand version shown L = left hand version

Part number	h	b	h ₁	f	l ₁	E ₁	l ₂	C	D _{min}	t _{max}	HWS	HMS
R208.2520.04	32	20	25	32	47.8	25	9	2	75	5	23104R • 23104N	032001R
R208.2520.05	32	20	25	32	46.8	25	9	2	75	5	23105R • 23105N	032001R
R208.2520.07	32	20	25	32	44.8	25	9	2	75	5	23107R • 23107N	032001R
R208.2520.09	32	20	25	32	42.8	25	9	2	75	5	23107R • 23107N	032001R
L208.2520.04	32	20	25	32	47.8	25	9	2	75	5	23104L • 23104N	032001L
L208.2520.07	32	20	25	32	44.8	25	9	2	75	5	23107L • 23107N	032001L
L208.2520.09	32	20	25	32	42.8	25	9	2	75	5	23107L • 23107N	032001L

Dimensions in mm

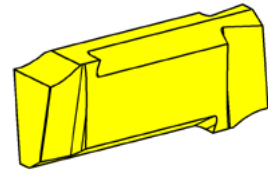
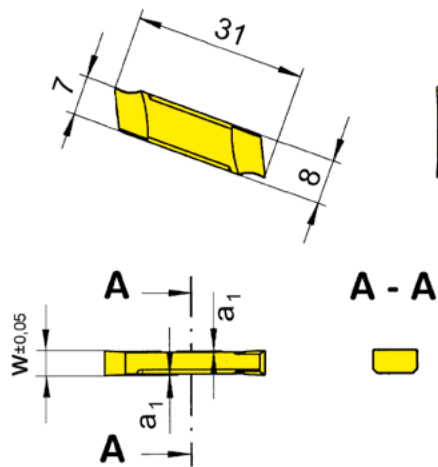
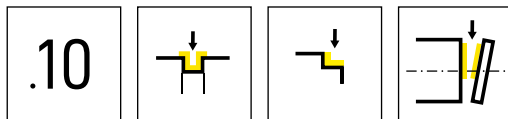
Spare Parts

Cartridge	Clamping Screw	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L208...	4.08.913	6.12.020	2.16.7 K	T20PQ	3 Nm



Cartridge	F	G	H	K	E	B	h	D _{min}	Fastening screw
R/L208.2520...	32	M10	32	50	25	20	25	75	0.30.208

Dimensions in mm



Coating grades

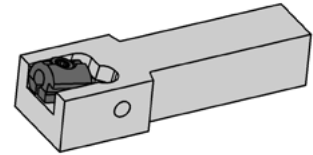
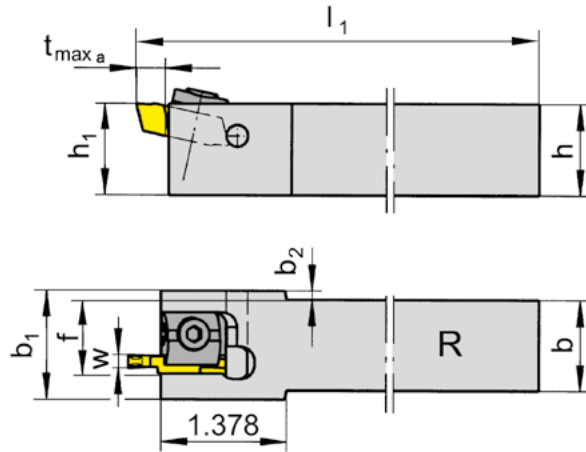
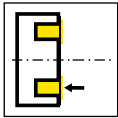
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	a ₁	HIS	P20	TN32
R231.0250.10	2.5	0.2	23102R	▲	▲
R231.0300.10	3	0.2	23103R	▲	▲
R231.0350.10	3.5	0.2	23103R	Δ	Δ
L231.0250.10	2.5	0.2	23102L	▲	▲
L231.0300.10	3	0.2	23103L	▲	▲
L231.0350.10	3.5	0.2	23103L	Δ	Δ
231.0400.10	4	0.2	23104N	▲	▲
231.0500.10	5	0.2	23105N	▲	▲
231.0600.10	6	0.2	23105N	▲	▲
231.0700.10	7	0.2	23107N	▲	Δ
231.0800.10	8	0.2	23107N	▲	▲
231.0900.10	9	0.2	23109N	Δ	▲
Dimensions in mm				P	●
				M	-
				K	-
				N	-
				S	-
				H	-



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	b ₁	f	t _{max a}	b ₂	HWS
RU221.0750.04	.750	.750	5.118	.750	1.102	.705	.315	.157	23104R • 23104N
RU221.1000.04	1.000	1.000	6.004	1.000	1.181	.803	.315	.098	23104R • 23104N
RU221.0750.05	.750	.750	5.118	.750	1.181	.744	.315	.197	23105R • 23105N
RU221.1000.05	1.000	1.000	6.004	1.000	1.181	.843	.315	.098	23105R • 23105N
RU221.0750.07	.750	.750	5.118	.750	1.260	.783	.315	.236	23107R • 23107N
RU221.1000.07	1.000	1.000	6.004	1.000	1.260	.882	.315	.138	23107R • 23107N
RU221.0750.09	.750	.750	5.118	.750	1.339	.823	.315	.276	23109R • 23109N
RU221.1000.09	1.000	1.000	6.004	1.000	1.339	.921	.315	.177	23109R • 23109N
LU221.0750.04	.750	.750	5.118	.750	1.102	.705	.315	.157	23104L • 23104N
LU221.1000.04	1.000	1.000	6.004	1.000	1.181	.803	.315	.098	23104L • 23104N
LU221.0750.05	.750	.750	5.118	.750	1.181	.744	.315	.197	23105L • 23105N
LU221.1000.05	1.000	1.000	6.004	1.000	1.181	.843	.315	.098	23105L • 23105N
LU221.0750.07	.750	.750	5.118	.750	1.260	.783	.315	.236	23107L • 23107N
LU221.1000.07	1.000	1.000	6.004	1.000	1.260	.882	.315	.138	23107L • 23107N
LU221.0750.09	.750	.750	5.118	.750	1.339	.823	.315	.276	23109L • 23109N
LU221.1000.09	1.000	1.000	6.004	1.000	1.339	.921	.315	.177	23109L • 23109N

For the (w) dimension, see inserts

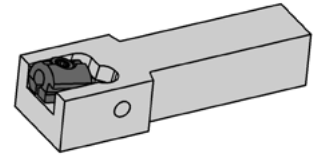
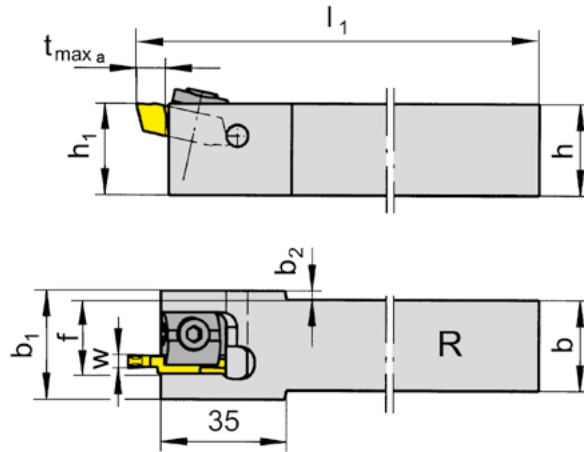
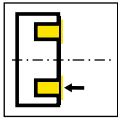
This toolholder can be used from Da = 1.181" up to ∞ depending on grooving depth.

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/LU221...	6.20.70P	01.60.12	T20PQ	5 Nm



L = left hand version shown

R = right hand version

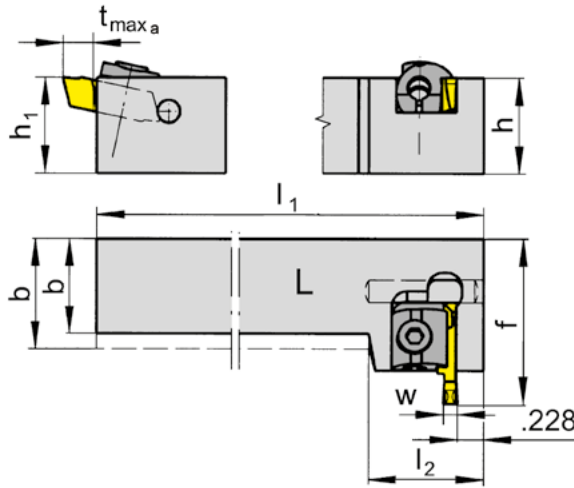
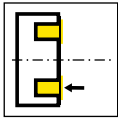
Part number	h	b	l ₁	h ₁	b ₁	f	t _{max a}	b ₂	D _{a min}	HWS
R221.2020.04	20	20	125	20	28	17.9	8	4	40	23104R • 23104N
R221.2525.04	25	25	150	25	28	20.4	8	1.5	40	23104R • 23104N
R221.2020.05	20	20	125	20	30	18.9	8	5	40	23105R • 23105N
R221.2525.05	25	25	150	25	30	21.4	8	2.5	40	23105R • 23105N
R221.2020.07	20	20	125	20	32	19.9	8	6	40	23107R • 23107N
R221.2525.07	25	25	150	25	32	22.4	8	3.5	40	23107R • 23107N
R221.2020.09	20	20	125	20	34	20.9	8	7	40	23109R • 23109N
R221.2525.09	25	25	150	25	34	23.4	8	4.5	40	23109R • 23109N
L221.2020.04	20	20	125	20	28	17.9	8	4	40	23104L • 23104N
L221.2525.04	25	25	150	25	28	20.4	8	1.5	40	23104L • 23104N
L221.2020.05	20	20	125	20	30	18.9	8	5	40	23105L • 23105N
L221.2525.05	25	25	150	25	30	21.4	8	2.5	40	23105L • 23105N
L221.2020.07	20	20	125	20	32	19.9	8	6	40	23107L • 23107N
L221.2525.07	25	25	150	25	32	22.4	8	3.5	40	23107L • 23107N
L221.2020.09	20	20	125	20	34	20.9	8	7	40	23109L • 23109N
L221.2525.09	25	25	150	25	34	23.4	8	4.5	40	23109L • 23109N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/LU221...	6.20.70P	01.60.12	T20PQ	5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	h ₁	f	t _{max a}	l ₁	l ₂	HWS
RU228.0750.04	.750	.750	.750	1.516	.315	5.118	1.398	23104L • 23104N
RU228.1000.04	1.000	1.000	1.000	1.516	.315	6.004	1.398	23104L • 23104N
RU228.0750.05	.750	.750	.750	1.516	.315	5.118	1.398	23105L • 23105N
RU228.1000.05	1.000	1.000	1.000	1.516	.315	6.004	1.398	23105L • 23105N
RU228.0750.07	.750	.750	.750	1.516	.315	5.118	1.398	23107L • 23107N
RU228.0750.09	.750	.750	.750	1.516	.315	5.118	1.398	23109L • 23109N
RU228.1000.09	1.000	1.000	1.000	1.516	.315	6.004	1.398	23109L • 23109N
LU228.0750.04	.750	.750	.750	1.516	.315	5.118	1.398	23104L • 23104N
LU228.1000.04	1.000	1.000	1.000	1.516	.315	6.004	1.398	23104L • 23104N
LU228.0750.05	.750	.750	.750	1.516	.315	5.118	1.398	23105L • 23105N
LU228.1000.05	1.000	1.000	1.000	1.516	.315	6.004	1.398	23105L • 23105N
LU228.0750.07	.750	.750	.750	1.516	.315	5.118	1.398	23107L • 23107N
LU228.1000.07	1.000	1.000	1.000	1.516	.315	6.004	1.398	23107L • 23107N
LU228.1000.09	1.000	1.000	1.000	1.516	.315	6.004	1.398	23109L • 23109N

For the (w) dimension, see inserts

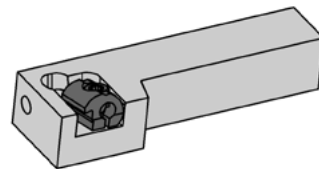
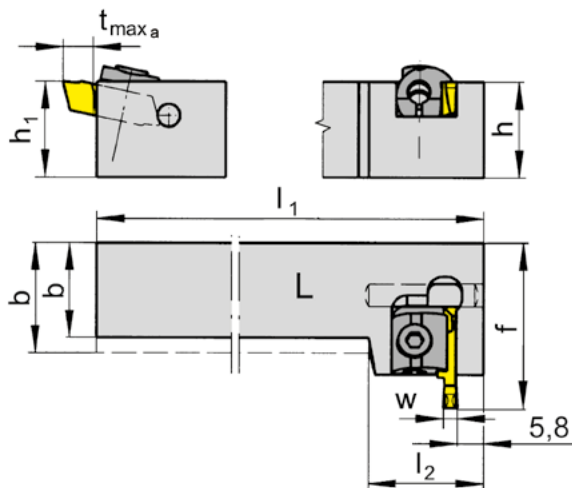
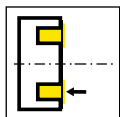
This toolholder can be used from Da = 1.181" up to ∞ depending on grooving depth.

Dimensions in inch



Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/LU228...	6.20.70P	01.60.12	T20PQ	5 Nm



L = left hand version shown

R = right hand version

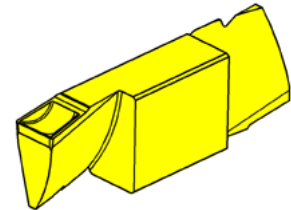
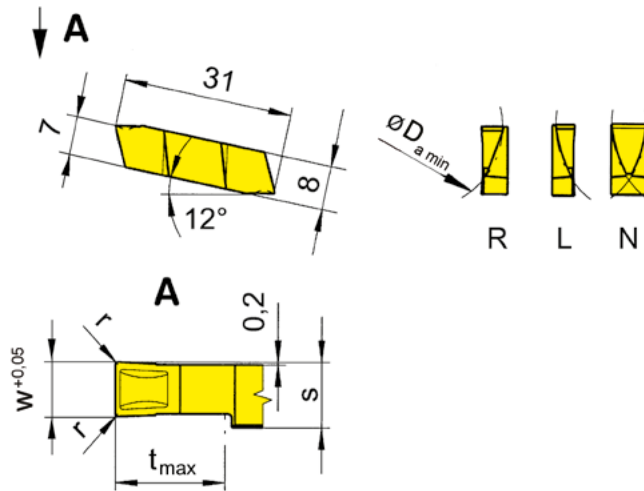
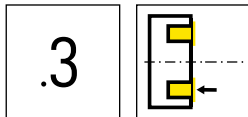
Part number	h	b	h ₁	f	t _{max a}	D _{a min}	l ₁	l ₂	HWS
R228.2020.04	20	20	20	38.5	8	40	125	35.5	23104R • 23104N
R228.2020.05	20	20	20	38.5	8	40	125	35.5	23105R • 23105N
R228.2020.07	20	20	20	38.5	8	40	125	35.5	23107R • 23107N
R228.2020.09	20	20	20	38.5	8	40	125	35.5	23109R • 23109N
R228.2525.04	25	25	25	38.5	8	40	150	35.5	23104R • 23104N
R228.2525.05	25	25	25	38.5	8	40	150	35.5	23105R • 23105N
R228.2525.07	25	25	25	38.5	8	40	150	35.5	23107R • 23107N
R228.2525.09	25	25	25	38.5	8	40	150	35.5	23109R • 23109N
L228.2020.04	20	20	20	38.5	8	40	125	35.5	23104L • 23104N
L228.2020.05	20	20	20	38.5	8	40	125	35.5	23105L • 23105N
L228.2020.09	20	20	20	38.5	8	40	125	35.5	23109L • 23109N
L228.2525.04	25	25	25	38.5	8	40	150	35.5	23104L • 23104N
L228.2525.05	25	25	25	38.5	8	40	150	35.5	23105L • 23105N
L228.2525.07	25	25	25	38.5	8	40	150	35.5	23107L • 23107N
L228.2525.09	25	25	25	38.5	8	40	150	35.5	23109L • 23109N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/LU228...	6.20.70P	01.60.12	T20PQ	5 Nm



Coating grades

R = right hand version shown

L = left hand version

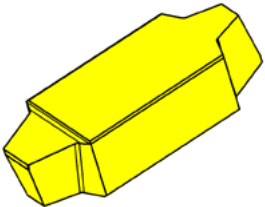
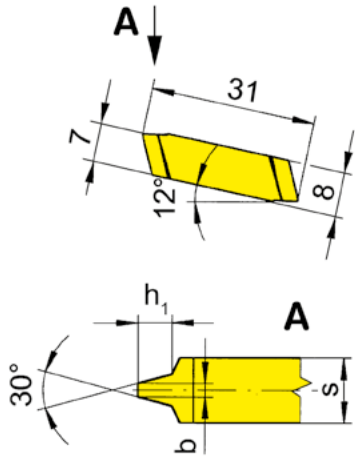
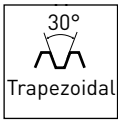
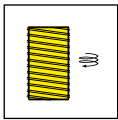
▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	s	D _{a min}	HIS	TN35
R231.4030.32	3	0.2	8	3.8	40	23104R	▲
R231.4040.32	4	0.2	8	3.8	40	23104R	▲
R231.4050.34	5	0.4	8	5.8	40	23105R	▲
L231.4030.32	3	0.2	8	3.8	40	23104L	▲
L231.4040.32	4	0.2	8	3.8	40	23104L	▲
L231.4050.34	5	0.4	8	5.8	40	23105L	▲
N231.4060.34	6	0.4	8	5.8	40	23105N	▲
N231.4070.36	7	0.6	8	7.8	40	23107N	Δ
N231.4080.36	8	0.6	8	7.8	40	23107N	▲
N231.4090.38	9	0.8	8	9.8	40	23109N	▲
N231.4100.38	10	0.8	8	9.8	40	23109N	▲

Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-



Coating grades

▲ In stock

Δ 2 weeks

Part number	P	h ₁	b	s	HIS	TN35	
231.4070.02	7	4	2.29	5.8	23105N	▲	
231.4580.02	8	4.5	2.66	5.8	23105N	▲	
231.5090.02	9	5	3.02	7.8	23107N	▲	
231.5500.02	10	5.5	3.39	7.8	23107N	▲	
231.6020.02	12	6.5	4.12	9.8	23109N	▲	
for Toolholder 221 and 228 (Face Grooving chapter)						P	●
Metric ISO trapezoidal thread DIN 103						M	-
Dimensions in mm						K	●
						N	-
						S	-
						H	-







J

SYSTEM 234

EXTERNAL GROOVING AND PARTING OFF

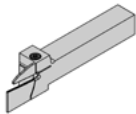
.079"-.118", 2-3mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

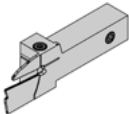
HOLDERS

Square Shank



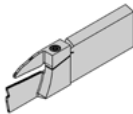
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Grooving and Part Off
Metric Shank



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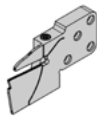
Grooving and Part Off
Metric Shank



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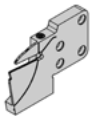
Grooving and Part Off
Metric Shank

Specialty



Page 353

Grooving and Part Off
842 Cassette

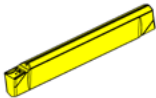


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Grooving and Part Off
845 Cassette

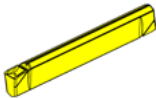
INSERTS

Grooving and Parting Off



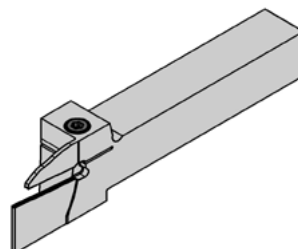
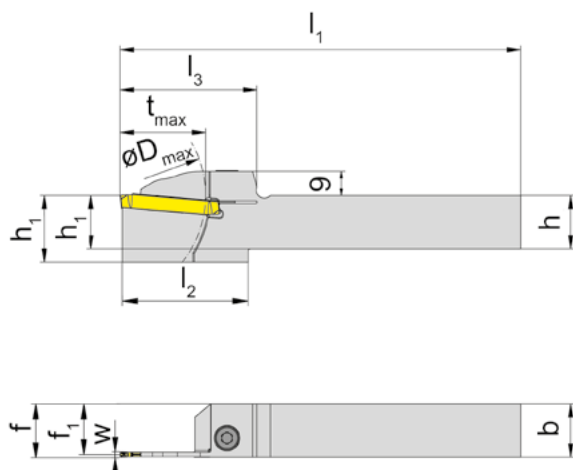
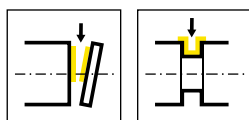
Page 355

.3V Chipbreaker
Grooving and Part Off



Page 356

.EN Chipbreaker
Grooving and Part Off



R = right hand version shown

L = left hand version shown

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH234.2020.33.02	20	20	150	48	52	20	19	f ₁ +w/2	33	80	2	23401
RH234.2525.33.02	25	25	150	48	52	25	24	f ₁ +w/2	33	80	2	23401
RH234.2020.33.03	20	20	150	48	52	20	18.5	f ₁ +w/2	33	80	3	23403
RH234.2525.33.03	25	25	150	48	52	25	23.5	f ₁ +w/2	33	80	3	23403
LH234.2020.33.02	20	20	150	48	52	20	19	f ₁ +w/2	33	80	2	23401
LH234.2525.33.02	25	25	150	48	52	25	24	f ₁ +w/2	33	80	2	23401
LH234.2020.33.03	20	20	150	48	52	20	18.5	f ₁ +w/2	33	80	3	23403
LH234.2525.33.03	25	25	150	48	52	25	23.5	f ₁ +w/2	33	80	3	23403

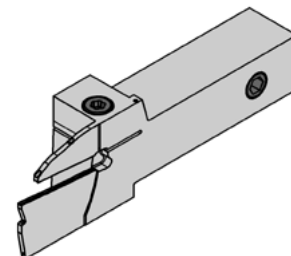
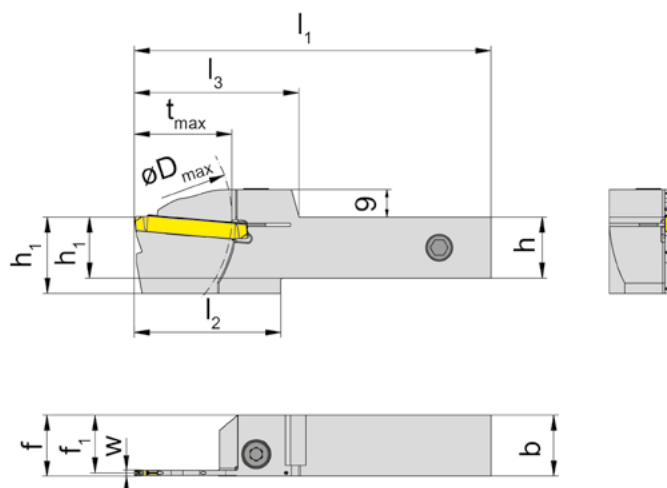
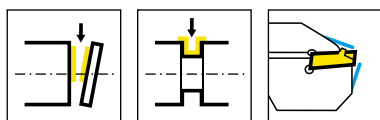
Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LK234...02	6.23T25P	T25PQ	4 Nm
R/LK234...03	6.23T25P	T25PQ	6 Nm

Toolholder

H234



R = right hand version shown

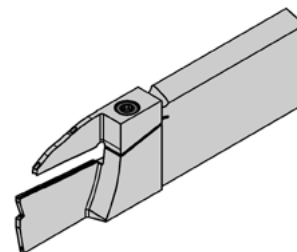
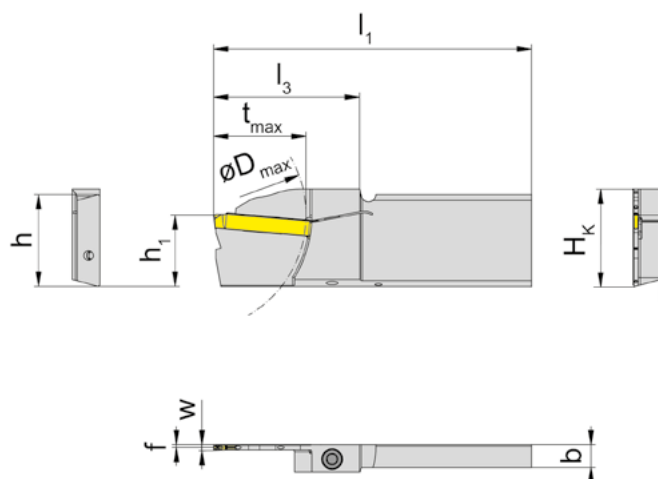
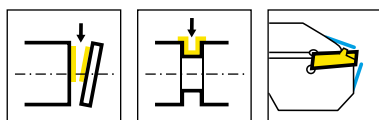
L = left hand version shown

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	w	HWS
RH234.2020.33.0A.02.IK	20	20	117	48	54	20	19	f ₁ +w/2	33	80	2	23401
RH234.2525.33.0A.02.IK	25	25	132	48	54	25	24	f ₁ +w/2	33	80	2	23401
RH234.2020.33.0A.03.IK	20	20	117	48	54	20	18.5	f ₁ +w/2	33	80	3	23403
RH234.2525.33.0A.03.IK	25	25	132	48	54	25	23.5	f ₁ +w/2	33	80	3	23403
LH234.2020.33.0A.02.IK	20	20	117	48	54	20	19	f ₁ +w/2	33	80	2	23401
LH234.2525.33.0A.02.IK	25	25	132	48	54	25	24	f ₁ +w/2	33	80	2	23401
LH234.2020.33.0A.03.IK	20	20	117	48	54	20	18.5	f ₁ +w/2	33	80	3	23403
LH234.2525.33.0A.03.IK	25	25	132	48	54	25	23.5	f ₁ +w/2	33	80	3	23403

Dimensions in mm

Spare Parts

Toolholder	Coolant Supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LK234...02.IK	004.00.16	6.23T25P	T25PQ	4 Nm
R/LK234...03.IK	004.00.16	6.23T25P	T25PQ	6 Nm



R = right hand version shown

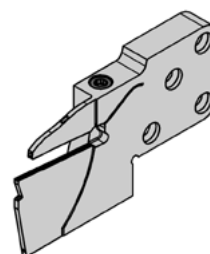
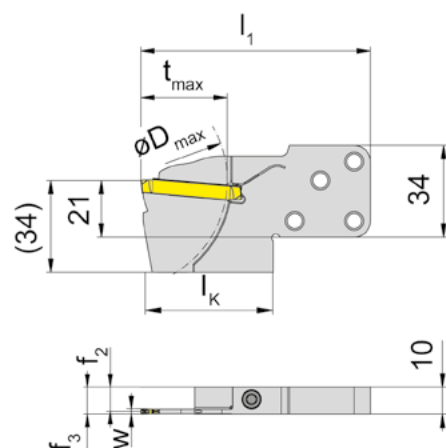
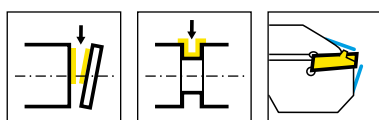
L = left hand version shown

Part number	H_K	h	l_1	h_1	f	l_3	t_{max}	D_{max}	w	HWS
RH234.3208.33.02.IK	33.8	32	110	24.8	1	51	33	80	2	23401
RH234.3208.33.03.IK	33.8	32	110	24.8	1.5	51	33	80	3	23403
LH234.3208.33.02.IK	33.8	32	110	24.8	1	51	33	80	2	23401
LH234.3208.33.03.IK	33.8	32	110	24.8	1.5	51	33	80	3	23403

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LK234...02.IK	5.13T20P	T20PQ	4 Nm
R/LK234...03.IK	5.13T20P	T20PQ	6 Nm



R = right hand version shown

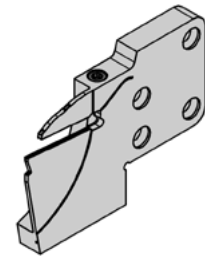
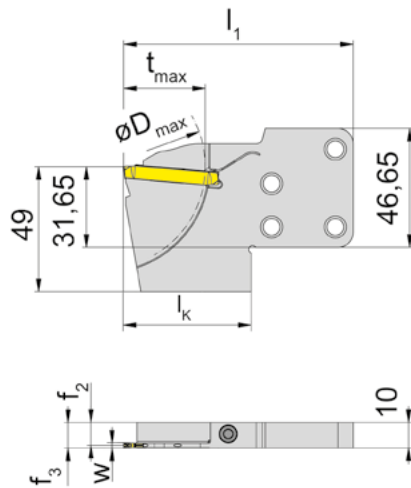
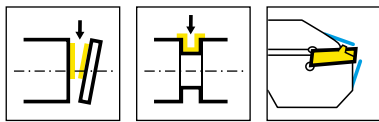
L = left hand version shown

Part number	$t_{\max}$	f_2	f_3	w	$D_{\max}$	l_1	l_k	HWS	HMS
RNK234.0842.33.4.02.IK	33	9	$f_2 + w/2$	2	80	85	49	23401	842002 • 842001
RNK234.0842.33.4.03.IK	33	8.5	$f_2 + w/2$	3	80	85	49	23403	842002 • 842001
LNK234.0842.33.4.02.IK	33	9	$f_2 + w/2$	2	80	85	49	23401	842002 • 842001
LNK234.0842.33.4.03.IK	33	8.5	$f_2 + w/2$	3	80	85	49	23403	842002 • 842001

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LNK234...02.IK	5.13T20P	T20PQ	4 Nm
R/LNK234...03.IK	5.13T20P	T20PQ	6 Nm



R = right hand version shown

L = left hand version shown

Part number	t _{max}	f ₂	f ₃	w	D _{max}	l ₁	l _K	HWS	HMS
RNK234.0845.33.4.02.IK	33	9	f ₂ +w/2	2	80	90	50	23401	845002 • 845001
RNK234.0845.33.4.03.IK	33	8.5	f ₂ +w/2	3	80	90	50	23403	845002 • 845001
LNK234.0845.33.4.02.IK	33	9	f ₂ +w/2	2	80	90	50	23401	845002 • 845001
LNK234.0845.33.4.03.IK	33	8.5	f ₂ +w/2	3	80	90	50	23403	845002 • 845001

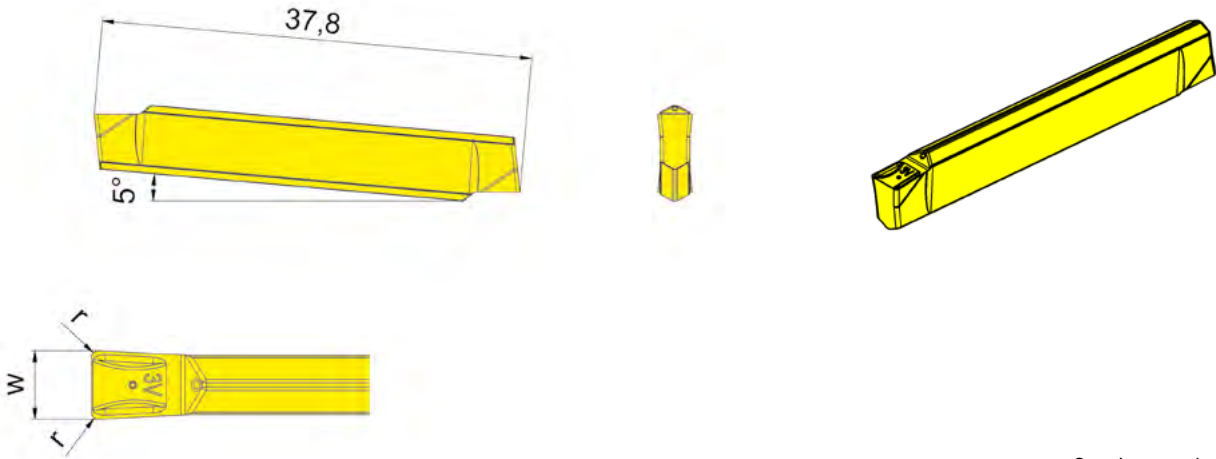
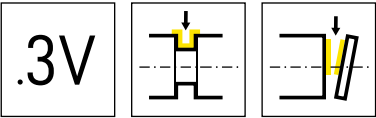
Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LNK234...02.IK	5.13T20P	T20PQ	4 Nm
R/LNK234...03.IK	5.13T20P	T20PQ	6 Nm

Indexable insert

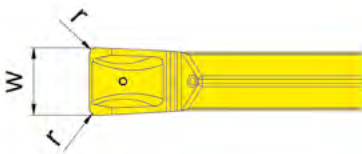
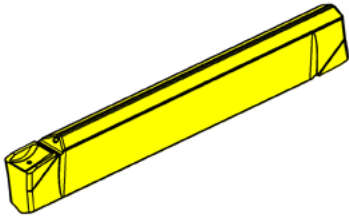
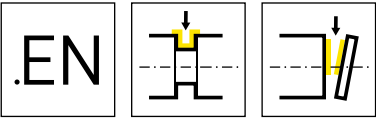
S234



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS65	IG65
S234.0200.3V2	2	0.2	23401	▲	▲	▲
S234.0300.3V3	3	0.3	23403	▲	▲	▲
Dimensions in mm				P	●	●
				M	●	●
				K	○	●
				N	-	○
				S	-	○
				H	-	-



Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS65	IG65
S234.0200.EN2	2	0.2	23401	▲	▲
S234.0300.EN3	3	0.3	23403	▲	▲

Dimensions in mm

P	●	●
M	●	●
K	○	●
N	-	○
S	-	○
H	-	-



K

SYSTEM 262

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF

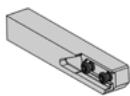
.001"-.078", 0.025-2 mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS

Square Shank



Page 360

Groove, Turn, Part Off
Metric Shank

INSERTS

Grooving, Side Turning

Part Off



Page 361

Side Turning, Profiling



Page 362

Side Turning, Profiling



Page 363

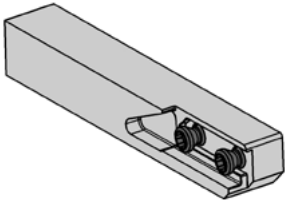
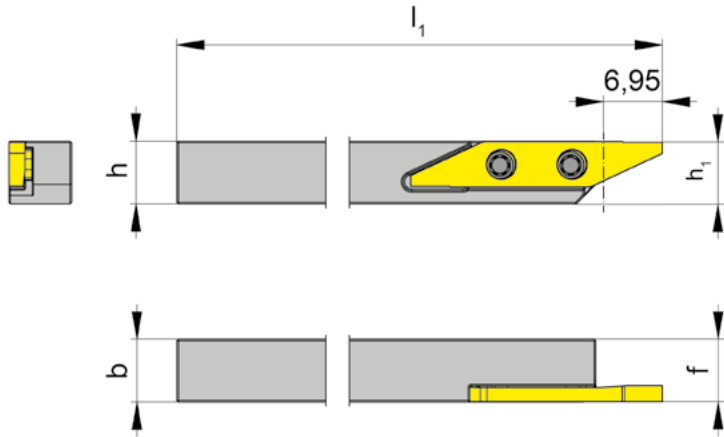
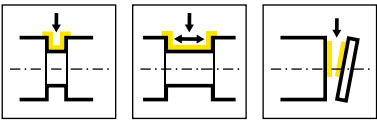
Side Turning



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Part Off

Cutting Data and Technical Instructions - Chapter V / Page 706



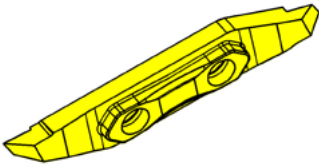
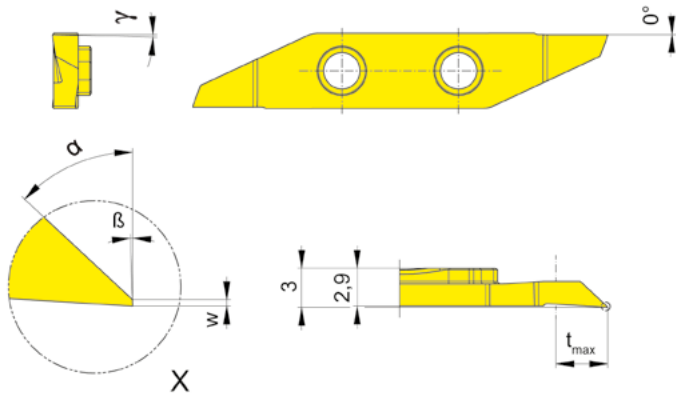
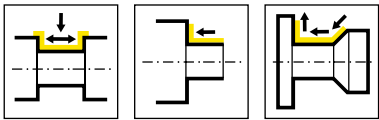
L = left hand version shown

Part number	h	b	l ₁	h ₁	f	t _{max}	HWS
LH262.0606.04	6	6	100	5.83	5.95	7.5	26204L
LH262.0707.04	7	7	100	6.83	6.95	7.5	26204L
LH262.0808.04	8	8	100	7.83	7.95	7.5	26204L
LH262.0808.2.04	8	8	150	7.83	7.95	7.5	26204L
LH262.1010.04	10	10	100	9.83	9.95	7.5	26204L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH262...	030.2557.T8P	T8PL	1 Nm



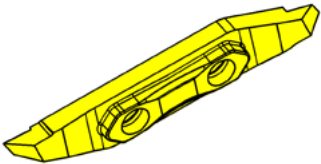
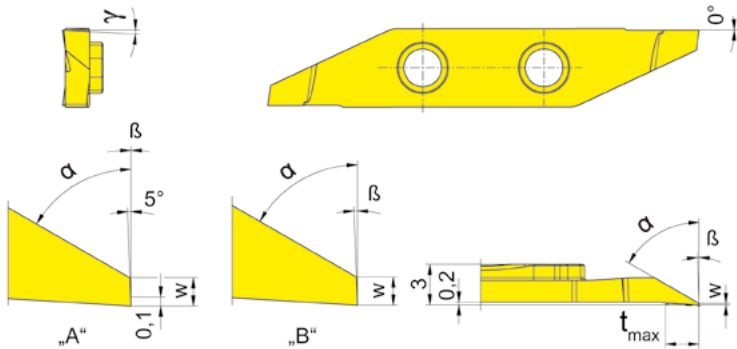
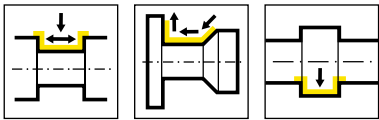
L = left hand version shown

Coating grades

▲ In stock Δ 2 weeks

Part number	w	t _{max}	γ	α	β	HIS	EG35	
LS262.0247.04	0.025	1.8	1.5°	47°	2°	26204L	▲	
Dimensions in mm								P ●
								M ●
								K ○
								N -
								S -
								H -

K



Coating grades

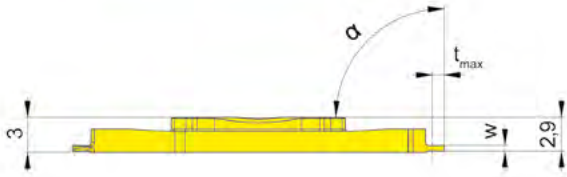
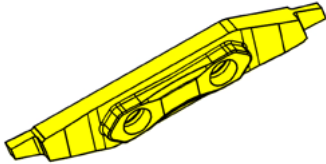
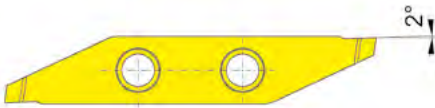
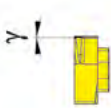
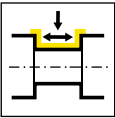
L = left hand version shown

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	α	Form	β	HIS	EG35	
LS262.0147.04	0.03	1.8	0°	47°	A	0°	26204L	▲	
LS262.0160.03	0.105	3	3°	60°	B	2°	26204L	▲	
									P ●
									M ●
									K ○
									N -
									S -
									H -

Dimensions in mm



L = left hand version shown

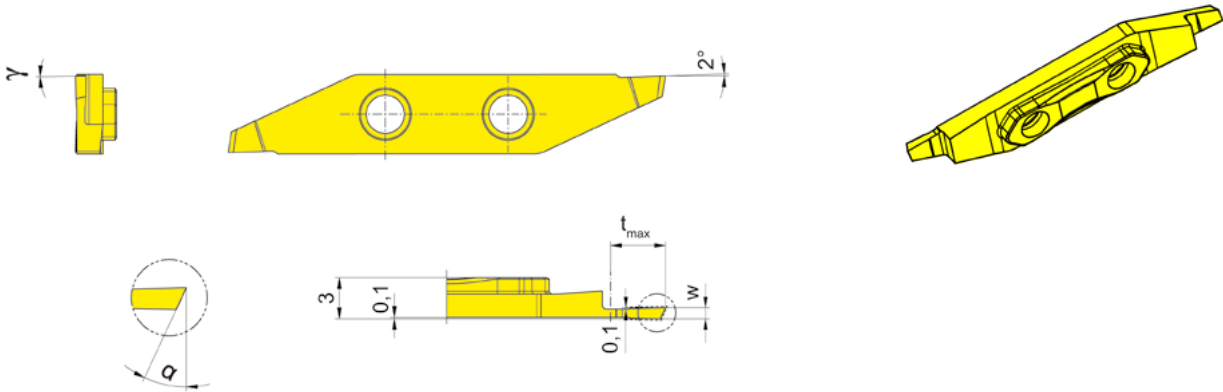
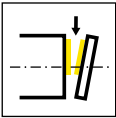
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	α	HIS	EG35	
LS262.0005.01	0.5	1	0°	90°	26204L	▲	P ●
LS262.0012.02	1.2	2	0°	90°	26204L	▲	M ●
LS262.0015.03	1.5	3	0°	90°	26204L	▲	K ○
Dimensions in mm							N -
							S -
							H -

K



L = left hand version shown

Coating grades

▲ In stock Δ 2 weeks

Part number	w	t _{max}	γ	α	HIS	EG35	
LS262.2007.02	0.7	2	0°	20°	26204L	▲	
LS262.2508.03	0.8	3	0°	25°	26204L	▲	
LS262.2509.04	0.9	4	0°	25°	26204L	▲	
LS262.2510.05	1	5	0°	25°	26204L	▲	
Dimensions in mm						P	●
						M	●
						K	○
						N	-
						S	-
						H	-



SYSTEM 264

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF AND THREADING

.059"-.118", 1.5-3mm width

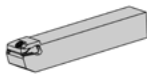
L

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

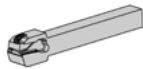
System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS

Square Shank



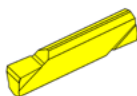
Page 368
Groove, Turn, Part Off
Inch Shank



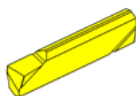
Page 369-373
Groove, Turn, Part Off
Metric Shank

INSERTS

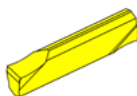
Grooving, Side Turning, Parting Off



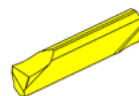
Page 374
.M0 Geometry
Groove, Turn, Part Off



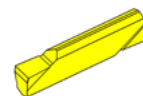
Page 375
.M0 Geometry
Parting Off



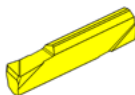
Page 376
.10 Geometry
Grooving and Part Off



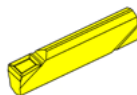
Page 377
.10 Geometry
Parting Off



Page 378
.20 Geometry
Grooving and Part Off

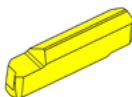


Page 379
.P Geometry
Groove, Turn, Part Off

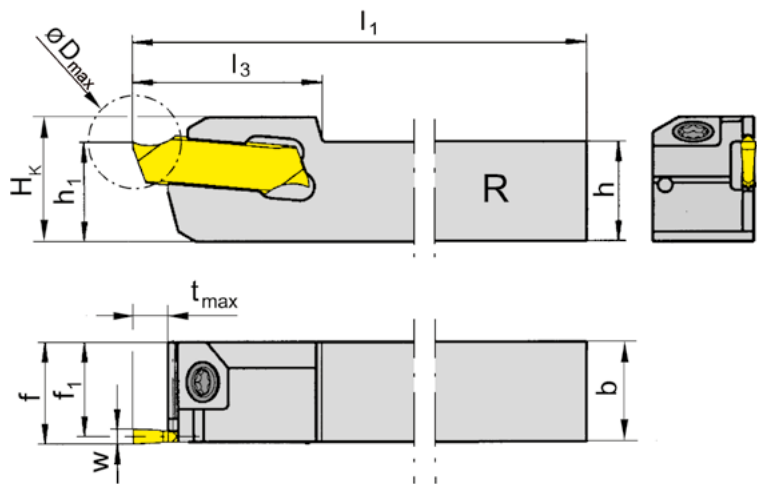
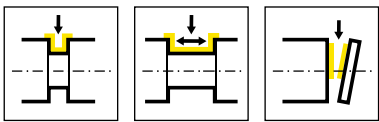


Page 380
.D Chipbreaker
Grooving and Turning

Threading



Page 381
Full Profile
60° Threading



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
LHU264.0750.01	.750	.750	4.724	.689	.750	.720	.750	.157	1.260	.848	26401

For the (w) dimension, see inserts

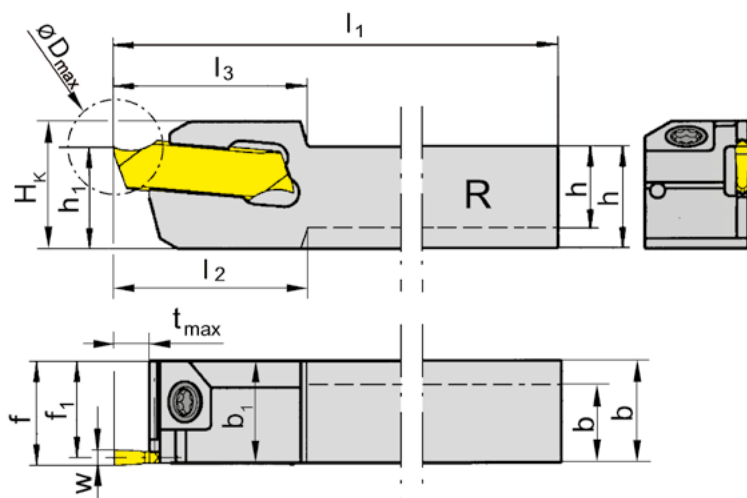
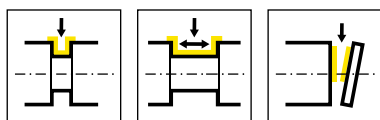
Dimensions in inch



L

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LHU264.0750.01	3.5.12T10EP	T10PL	3 Nm



R = right hand version shown

L = left hand version

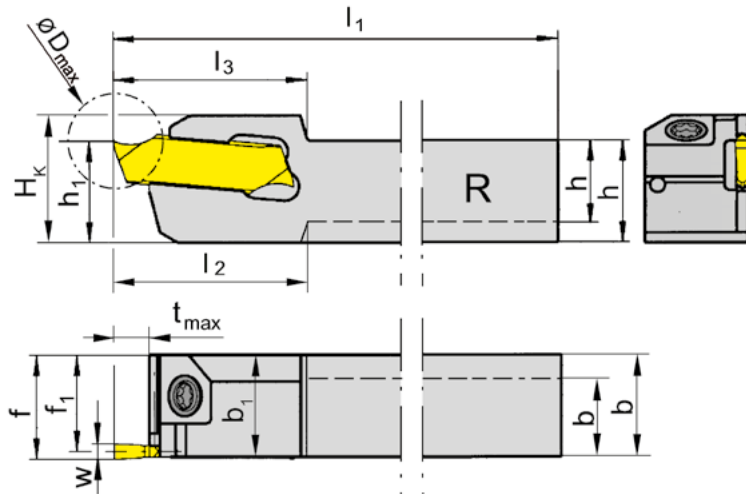
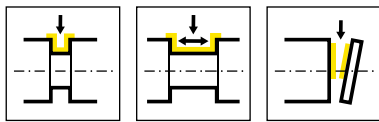
Part number	h	b	l ₁	l ₂	l ₃	h ₁	b ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
RH264.0808.01	8	8	120	17.5	17.5	8	10	9.25	10	4	22	12.5	26401
RH264.1010.01	10	10	120	-	17.5	10	-	9.25	10	4	22	12.5	26401
RH264.1010.11	10	10	120	-	19	10	-	9.25	10	10	20	12.5	26401
RH264.1212.01	12	12	120	-	17.5	12	-	11.25	12	4	22	14.5	26401
RH264.1212.11	12	12	120	-	19	12	-	11.25	12	10	20	14.5	26401
RH264.1212.21	12	12	120	-	22	12	-	11.25	12	13	26	15.5	26401
RH264.1616.01	16	16	120	-	17.5	16	-	15.25	16	4	32	18.5	26401
RH264.1616.11	16	16	120	-	19	16	-	15.25	16	10	32	18.5	26401
RH264.1616.21	16	16	120	-	22	16	-	15.25	16	13	32	19.5	26401
LH264.0808.01	8	10	120	17.5	17.5	8	10	9.25	10	4	22	12.5	26401
LH264.1010.01	10	10	120	-	17.5	10	-	9.25	10	4	22	12.5	26401
LH264.1010.11	10	10	120	-	19	10	-	9.25	10	10	20	12.5	26401
LH264.1212.01	12	12	120	-	17.5	12	-	11.25	12	4	22	14.5	26401
LH264.1212.11	12	12	120	-	19	12	-	11.25	12	10	20	14.5	26401
LH264.1212.21	12	12	120	-	22	12	-	11.25	12	13	26	15.5	26401
LH264.1616.01	16	16	120	-	17.5	16	-	15.25	16	4	32	18.5	26401
LH264.1616.11	16	16	120	-	19	16	-	15.25	16	10	32	18.5	26401
LH264.1616.21	16	16	120	-	22	16	-	15.25	16	13	32	19.5	26401

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH264...	3.5.12T10EP	T10PL	3 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_3	h_1	f_1	f	t_{max}	D_{max}	H_K	HWS
RH264.1010.02	10	10	120	17.5	10	9	10	4	32	12.5	26402
RH264.1212.02	12	12	120	17.5	12	11	12	4	32	14.5	26402
RH264.1616.02	16	16	120	17.5	16	15	16	4	32	18.5	26402
RH264.1010.12	10	10	120	19	10	9	10	10	32	12.5	26402
RH264.1212.12	12	12	120	19	12	11	12	10	32	14.5	26402
RH264.1616.12	16	16	120	19	16	15	16	10	32	18.5	26402
RH264.1212.22	12	12	120	25	12	11	12	16	32	14.5	26402
RH264.1616.22	16	16	120	25	16	15	16	16	32	19.5	26402
LH264.1010.02	10	10	120	17.5	10	9	10	4	32	12.5	26402
LH264.1212.02	12	12	120	17.5	12	11	12	4	32	14.5	26402
LH264.1616.02	16	16	120	17.5	16	15	16	4	32	18.5	26402
LH264.1010.12	10	10	120	19	10	9	10	10	32	12.5	26402
LH264.1212.12	12	12	120	19	12	11	12	10	32	14.5	26402
LH264.1616.12	16	16	120	19	16	15	16	10	32	18.5	26402
LH264.1212.22	12	12	120	25	12	11	12	16	32	14.5	26402
LH264.1616.22	16	16	120	25	16	15	16	16	32	19.5	26402

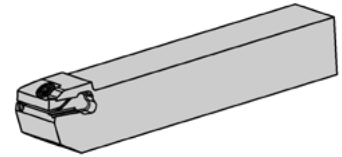
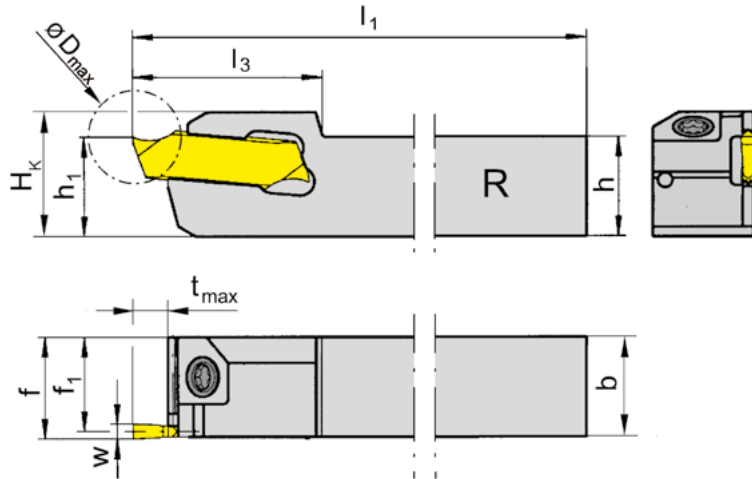
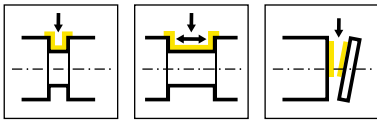
For the (w) dimension, see inserts

Dimensions in mm

L

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH264...	3.5.12T10EP	T10PL	3 Nm



R = right hand version shown

L = left hand version

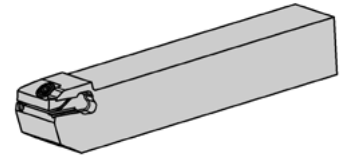
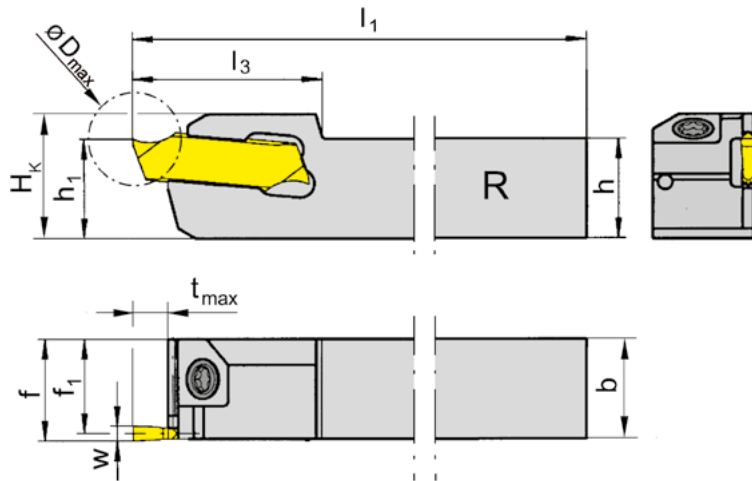
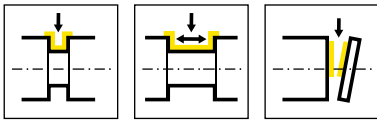
Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
RH264.1212.03	12	12	120	17.5	12	10.75	12	4	32	14.5	26403
RH264.1616.03	16	16	120	17.5	16	14.75	16	4	32	18.5	26403
RH264.1212.13	12	12	120	19	12	10.75	12	10	32	14.5	26403
RH264.1616.13	16	16	120	19	16	14.75	16	10	32	18.5	26403
RH264.1212.23	12	12	120	25	12	10.75	12	16	32	14.5	26403
RH264.1616.23	16	16	120	25	16	14.75	16	16	32	18.5	26403
LH264.1616.03	16	16	120	17.5	16	14.75	16	4	32	18.5	26403
LH264.1212.13	12	12	120	19	12	10.75	12	10	32	14.5	26403
LH264.1616.13	16	16	120	19	16	14.75	16	10	32	18.5	26403
LH264.1212.23	12	12	120	25	12	10.75	12	16	32	14.5	26403
LH264.1616.23	16	16	120	25	16	14.75	16	16	32	18.5	26403

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH264...	3.5.12T10EP	T10PL	3 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
RH264.1212.04	12	12	120	17.5	12	10.5	12	5	32	15	26404
RH264.1616.04	16	16	120	17.5	16	14.5	16	5	32	19	26404
RH264.1212.14	12	12	120	19	12	10.5	12	10	32	15	26404
RH264.1616.14	16	16	120	19	16	14.5	16	10	32	19	26404
RH264.1212.24	12	12	120	25	12	10.5	12	16	32	15	26404
RH264.1616.24	16	16	120	25	16	14.5	16	16	32	19	26404
LH264.1212.04	12	12	120	17.5	12	10.5	12	5	32	15	26404
LH264.1616.04	16	16	120	17.5	16	14.5	16	5	32	19	26404
LH264.1212.14	12	12	120	19	12	10.5	12	10	32	15	26404
LH264.1616.14	16	16	120	19	16	14.5	16	10	32	19	26404
LH264.1616.24	16	16	120	25	16	14.5	16	16	32	19	26404

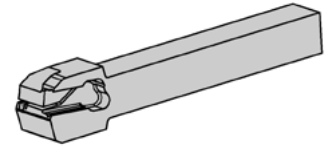
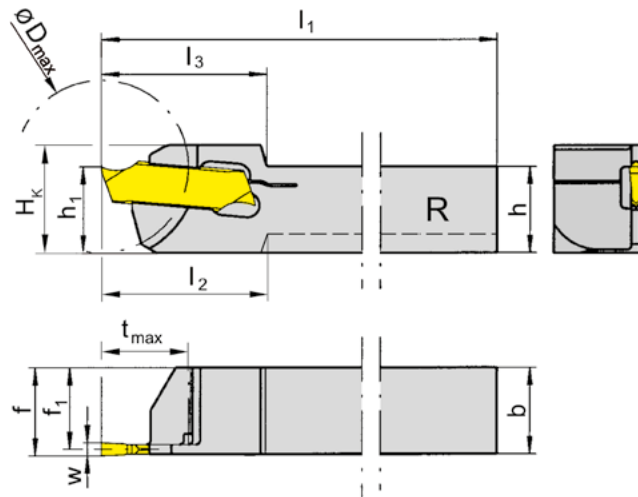
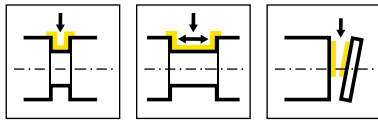
For the (w) dimension, see inserts

Dimensions in mm

L

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH264...	3.5.12T10EP	T10PL	3 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	HWS
RH264.0808.51	8	8	120	18	18	10	7.25	8	7	20	12.5	26401
RH264.1010.61	10	10	120	-	19	10	9.25	10	10	20	12.5	26401
RH264.1010.62	10	10	120	-	19	10	9	10	10	20	12.5	26402
RH264.1212.62	12	12	120	-	19	12	11	12	10	20	14.5	26402
RH264.1212.63	12	12	120	-	19	12	10.75	12	10	32	14.5	26403
LH264.0808.51	8	8	120	18	18	10	7.25	8	7	20	12.5	26401
LH264.1010.61	10	10	120	-	19	10	9.25	10	10	20	12.5	26401
LH264.1010.62	10	10	120	-	19	10	9	10	10	20	12.5	26402
LH264.1212.62	12	12	120	-	19	12	11	12	10	20	14.5	26402
LH264.1212.63	12	12	120	-	19	12	10.75	12	10	32	14.5	26403
LH264.1212.64	12	12	120	-	19	12	10.5	12	10	32	14.5	26404

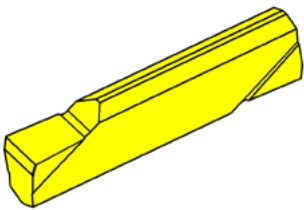
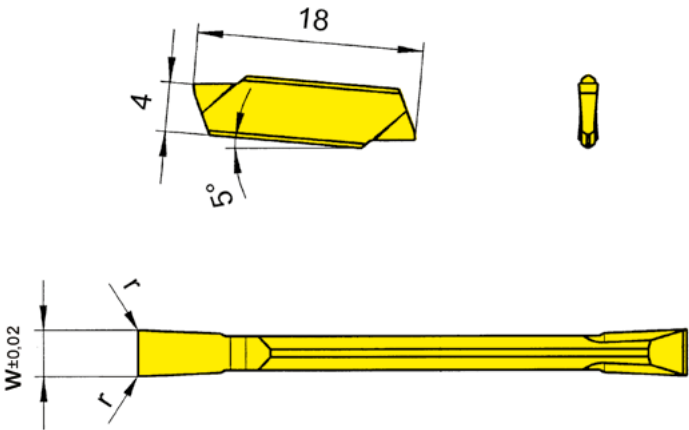
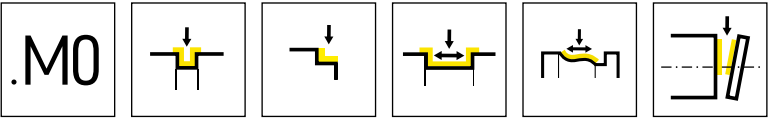
For the (w) dimension, see inserts

Wrench **P39L** is not combined with the toolholder - a separate order is required.

Dimensions in mm

Spare Parts

Toolholder	Wrench
R/LH264...	P39L

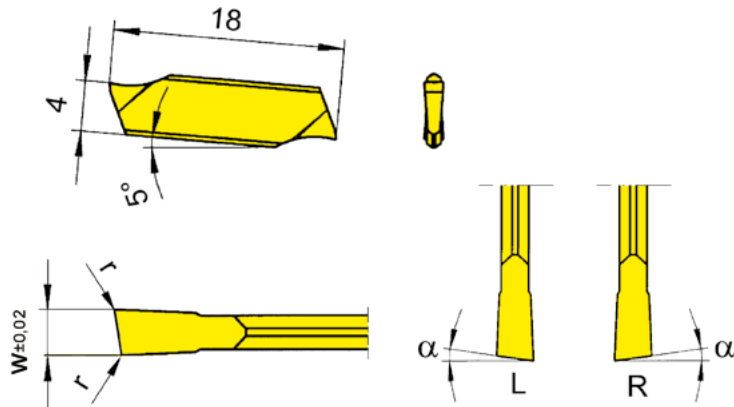
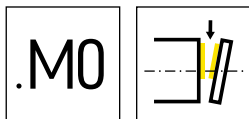


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		TH35	TN35
264.0150.M0	1.5	0.05	26401		Δ	▲
264.0200.M0	2	0.05	26402		Δ	▲
264.0250.M0	2.5	0.1	26403		Δ	▲
264.0300.M0	3	0.1	26404		Δ	▲
Dimensions in mm				P	●	●
				M	●	-
				K	-	●
				N	-	-
				S	-	-
				H	-	-



Coating grades

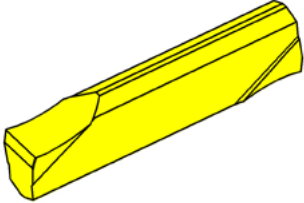
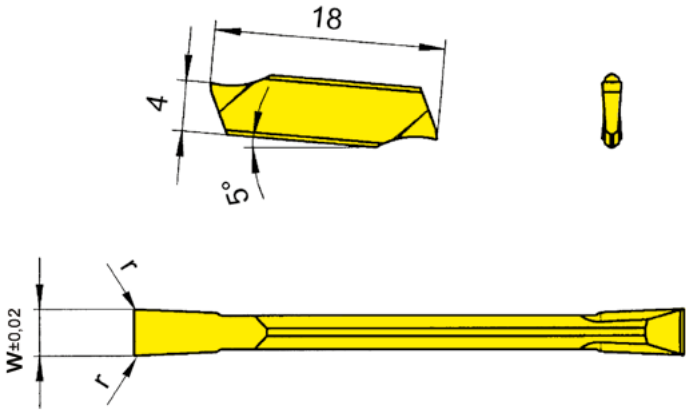
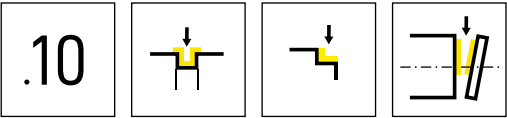
▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	TN35
R264.0815.M0	1.5	0.05	8°	26401	▲
R264.0820.M0	2	0.05	8°	26402	▲
R264.0825.M0	2.5	0.1	8°	26403	▲
R264.1515.M0	1.5	0.05	15°	26401	▲
R264.1520.M0	2	0.05	15°	26402	▲
R264.1525.M0	2.5	0.1	15°	26403	▲
R264.1530.M0	3	0.1	15°	26404	▲
L264.0815.M0	1.5	0.05	8°	26401	▲
L264.0820.M0	2	0.05	8°	26402	▲
L264.0825.M0	2.5	0.1	8°	26403	▲
L264.1515.M0	1.5	0.05	15°	26401	▲
L264.1520.M0	2	0.05	15°	26402	▲
L264.1525.M0	2.5	0.1	15°	26403	Δ
L264.1530.M0	3	0.1	15°	26404	▲

Dimensions in mm

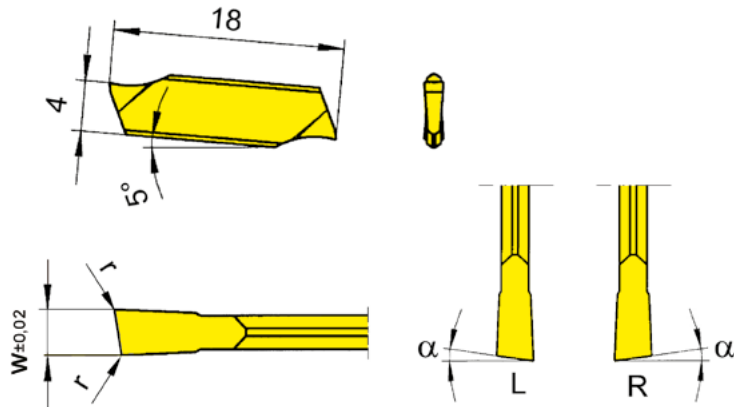
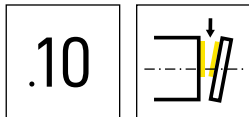
P	●
M	-
K	●
N	-
S	-
H	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	TN35	
264.0150.10	1.5	0.05	26401	▲	●
264.0200.10	2	0.05	26402	▲	-
264.0250.10	2.5	0.1	26403	▲	●
264.0300.10	3	0.1	26404	▲	-
Dimensions in mm				P	●
				M	-
				K	●
				N	-
				S	-
				H	-



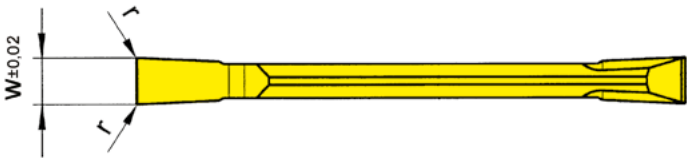
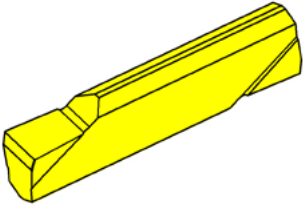
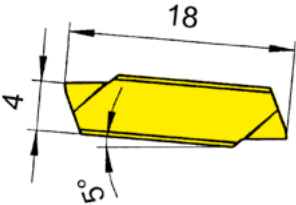
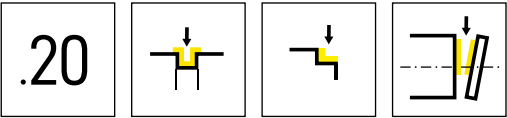
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	α	HIS	MG12	TN35
R264.0815.10	1.5	0.05	8°	26401	Δ	▲
R264.0820.10	2	0.05	8°	26402	▲	▲
R264.0825.10	2.5	0.1	8°	26403	Δ	▲
R264.0830.10	3	0.1	8°	26404	Δ	▲
R264.1515.10	1.5	0.05	15°	26401	▲	▲
R264.1520.10	2	0.05	15°	26402	▲	▲
R264.1525.10	2.5	0.1	15°	26403	Δ	▲
R264.1530.10	3	0.1	15°	26404	Δ	▲
L264.0815.10	1.5	0.05	8°	26401	▲	▲
L264.0820.10	2	0.05	8°	26402	Δ	▲
L264.0825.10	2.5	0.1	8°	26403	Δ	▲
L264.0830.10	3	0.1	8°	26404	Δ	▲
L264.1515.10	1.5	0.05	15°	26401	Δ	▲
L264.1520.10	2	0.05	15°	26402	Δ	▲
L264.1525.10	2.5	0.1	15°	26403	Δ	▲
L264.1530.10	3	0.1	15°	26404	Δ	▲
					P	- ●
					M	- -
					K	- ●
					N	● -
					S	- -
					H	- -

Dimensions in mm

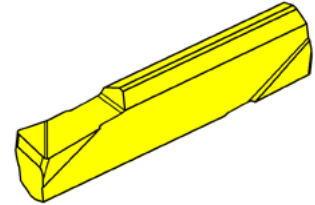
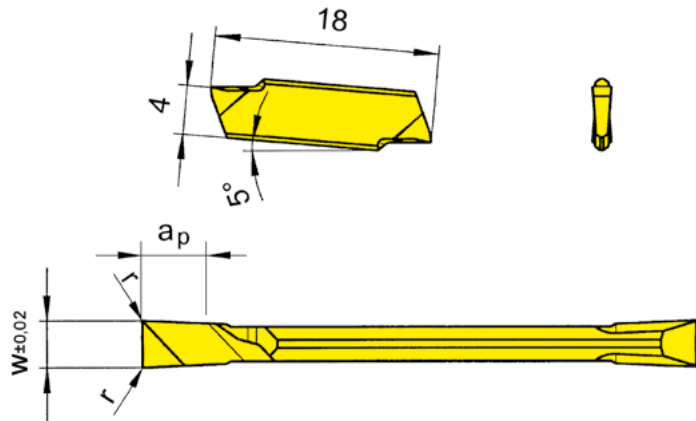
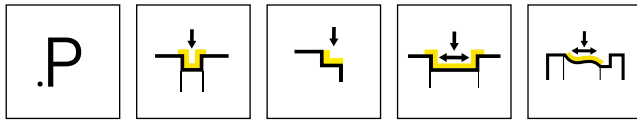


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	TN35	
264.0150.20	1.5	0.05	26401	▲	●
264.0200.20	2	0.05	26402	▲	-
264.0250.20	2.5	0.1	26403	▲	●
264.0300.20	3	0.1	26404	▲	-
Dimensions in mm				P	●
				M	-
				K	●
				N	-
				S	-
				H	-



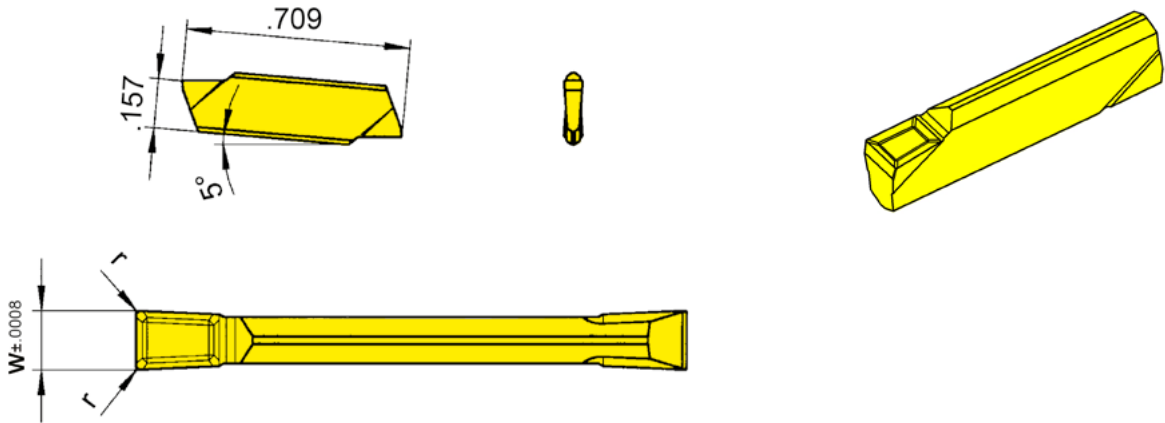
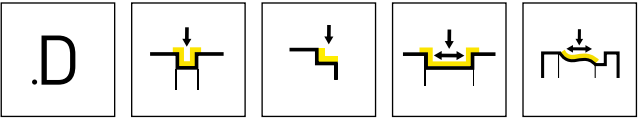
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		TI25	TN35
R264.0150.P0	1.5	0.05	26401	▲	▲	
R264.0200.P0	2	0.05	26402	▲	▲	
R264.0200.P2	2	0.2	26402			Δ
R264.0250.P0	2.5	0.1	26403	▲	▲	
R264.0250.P2	2.5	0.2	26403			Δ
R264.0300.P0	3	0.1	26404	▲	▲	
R264.0300.P2	3	0.2	26404			Δ
L264.0150.P0	1.5	0.05	26401	▲	▲	
L264.0200.P0	2	0.05	26402	▲	▲	
L264.0200.P2	2	0.2	26402			Δ
L264.0250.P0	2.5	0.1	26403	Δ		
L264.0300.P0	3	0.1	26404			▲
				P	●	●
				M	●	-
				K	-	●
				N	o	-
				S	-	-
				H	-	-

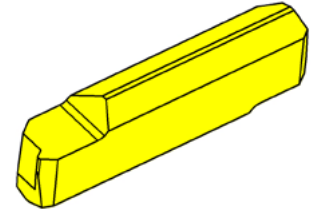
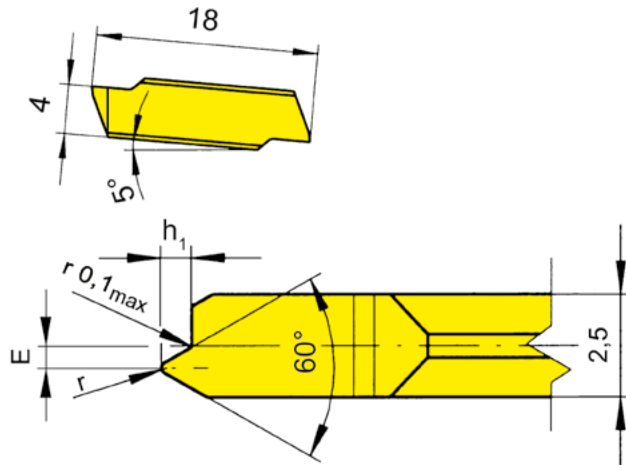
Dimensions in mm



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	TN35	
S264.0150.D1	1.5	0.05	26401	▲	P ●
S264.0200.D1	2	0.05	26402	▲	M -
S264.0250.D1	2.5	0.1	26403	▲	K ●
S264.0300.D1	3	0.1	26404	▲	N -
Dimensions in mm				S	-
				H	-



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	TF45
R264.0305.02	0.5	50	0.9	0.07	0.31	26403	▲
R264.0306.02	0.6	42	0.9	0.09	0.37	26403	▲
R264.0307.02	0.7	36	0.8	0.1	0.43	26403	▲
R264.0407.02	0.75	33	0.75	0.11	0.46	26403	▲
R264.0408.02	0.8	31	0.7	0.12	0.49	26403	▲
R264.0610.02	1	25	0.6	0.12	0.61	26403	▲
R264.0712.02	1.25	20	0.5	0.15	0.77	26403	▲
R264.0915.02	1.5	16	0.4	0.2	0.92	26403	▲
L264.0305.02	0.5	50	0.9	0.07	0.31	26403	▲
L264.0306.02	0.6	42	0.9	0.09	0.37	26403	▲
L264.0307.02	0.7	36	0.8	0.1	0.43	26403	▲
L264.0407.02	0.75	33	0.75	0.11	0.46	26403	▲
L264.0408.02	0.8	31	0.7	0.12	0.49	26403	▲
L264.0610.02	1	25	0.6	0.12	0.61	26403	▲
L264.0712.02	1.25	20	0.5	0.15	0.77	26403	▲
L264.0915.02	1.5	16	0.4	0.2	0.92	26403	▲
Dimensions in mm							P o
							M o
							K -
							N o
							S -
							H -

Dimensions in mm



SYSTEM 274

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF AND THREADING

.019"-.275" , 0.5-7mm width

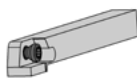
M

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

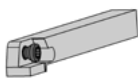
HOLDERS

Square Shank



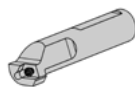
Page 387-390

Groove, Turn, Part Off
Inch Shank



Page 391-398

Groove, Turn, Part Off
Metric Shank

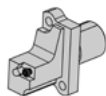


Page 399

Groove and Turn
Index, Traub - Metric

Round Shank

Specialty



Page 400

Groove, Turn, Part Off
Star - Metric



Page 401-402

Groove and Turn
Cartridge

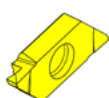


Page 403

Groove and Turn
Adjustable Cartridge

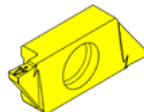
INSERTS

Grooving, Groove Turning, Parting Off



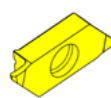
Page 404

.P Chipbreaker
Groove and Turn



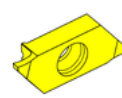
Page 405

.1A Chipbreaker
Grooving



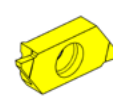
Page 406

Full Radius
Groove and Turn



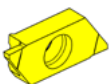
Page 407

.10 Geometry
Groove and Part Off



Page 408

.20 Geometry
Groove and Part Off



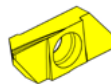
Page 409

.M0 Geometry
Groove, Turn, Part Off



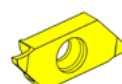
Page 410

Back Turning



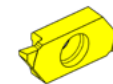
Page 411-412

Side Turning



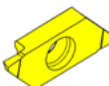
Page 413-414

.10 Geometry
Part Off



Page 415-416

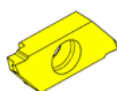
.20 Geometry
Part Off



Page 417-418

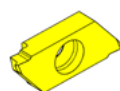
.M0 Geometry
Part Off

Threading



Page 419-420

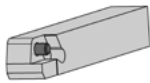
Partial Profile
60° Threading



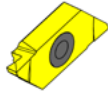
Page 421-422

Partial Profile
60° Threading

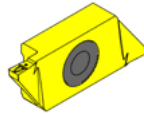
Grooving, Turning, Parting Off - .E Variants



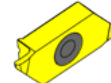
Page 423
Groove, Turn, Part Off
Metric Shank



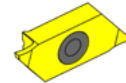
Page 424
.P Chipbreaker
Groove and Turn



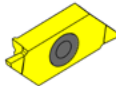
Page 425
.1A Chipbreaker
Grooving



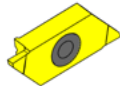
Page 426
Full Radius
Groove and Turn



Page 427
.10 Geometry
Groove and Part Off



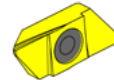
Page 428
.20 Geometry
Groove and Part Off



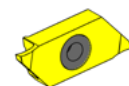
Page 429
.M0 Geometry
Groove, Turn, Part Off



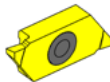
Page 430
Back Turning



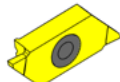
Page 431-432
Side Turning



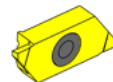
Page 433-434
.10 Geometry
Part Off



Page 435-436
.20 Geometry
Part Off

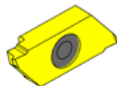


Page 437
.20 Geometry
Groove and Part Off

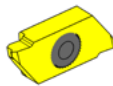


Page 438-439
.M0 Geometry
Part Off

Threading

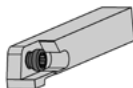


Page 440-441
Partial Profile
60° Threading

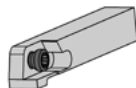


Page 442-443
Full Profile
60° Threading

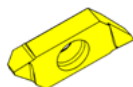
Grooving, Groove Turning, Parting Off - μ Finishing



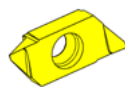
Page 444
Groove, Turn, Part Off
Metric Shank



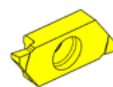
Page 445
Groove, Turn, Part Off
Tungsten Shank



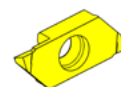
Page 446
External Side Turning
 μ -Finishing



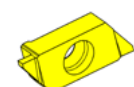
Page 447-448
External Profiling
 μ -Finishing



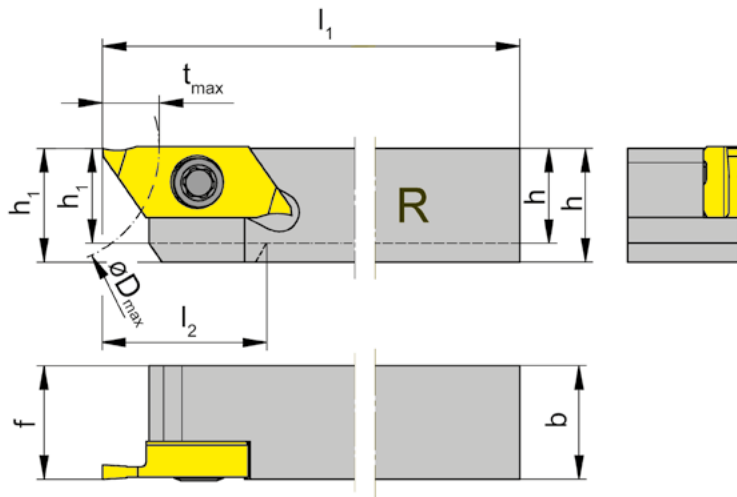
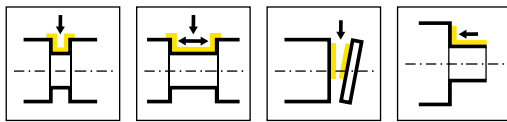
Page 449-450
Part Off
 μ -Finishing



Page 451
Back Turning
 μ -Finishing



Page 452
Groove and Turn
 μ -Finishing



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f	t _{max}	D _{max}	HWS
RHU274.0312.04	.312	.312	3.996	.630	.400	.312	.236	.984	274040R
RHU274.0375.04	.375	.375	3.996	-	.375	.375	.236	.984	274040R
RHU274.0500.04	.500	.500	3.996	-	.500	.500	.236	.984	274040R
RHU274.0625.04	.625	.625	5.118	-	.625	.625	.236	.984	274040R
RHU274.0750.04	.750	.750	5.000	-	.750	.750	.236	.984	274040R
RHU274.1000.04	1.000	1.000	6.000	-	1.000	1.000	.236	.984	274040R
LHU274.0312.04	.312	.312	3.996	.630	.400	.312	.236	.984	274040L
LHU274.0375.04	.375	.375	3.996	-	.375	.375	.236	.984	274040L
LHU274.0500.04	.500	.500	3.996	-	.500	.500	.236	.984	274040L
LHU274.0625.04	.625	.625	5.118	-	.625	.625	.236	.984	274040L
LHU274.0750.04	.750	.750	5.000	-	.750	.750	.236	.984	274040L
LHU274.1000.04	1.000	1.000	6.000	-	1.000	1.000	.236	.984	274040L

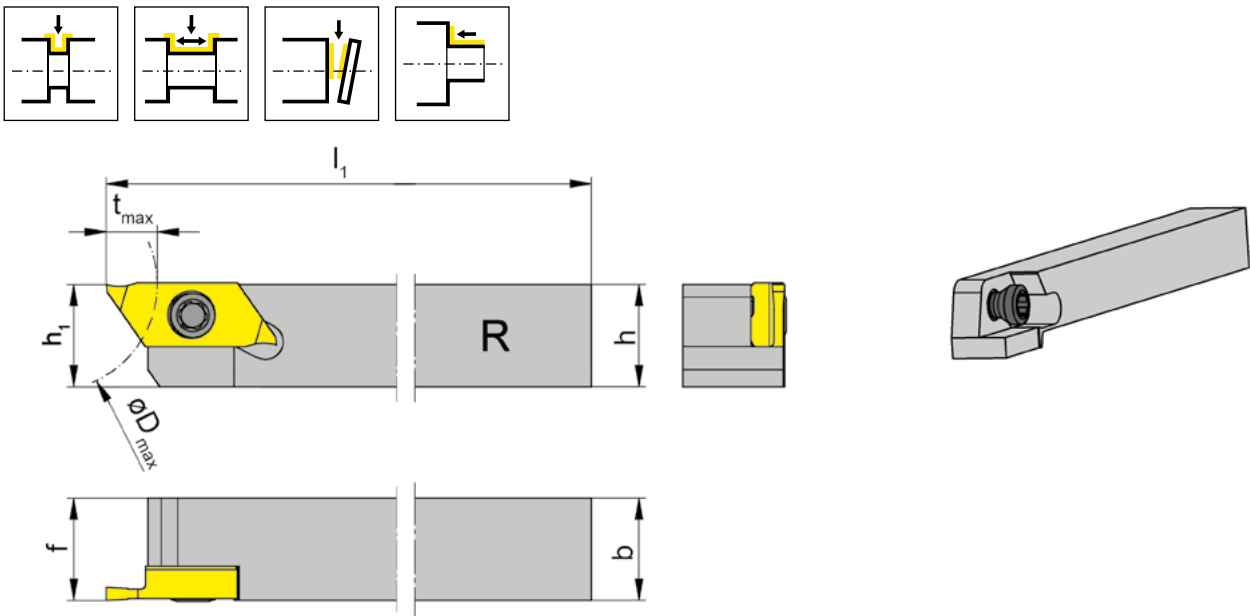
Holder .0312 has an l2 offset at the head

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU274.0312.04	030.350P.0744	T15PQ	3 Nm
R/LHU274...	030.3509.T15P	T15PQ	3 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	HWS
RHU274.0500.07	.500	.551	3.996	.500	.551	.236	.984	274070R
LHU274.0500.07	.500	.551	3.996	.500	.551	.236	.984	274070L

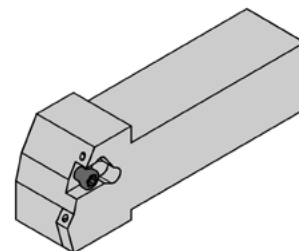
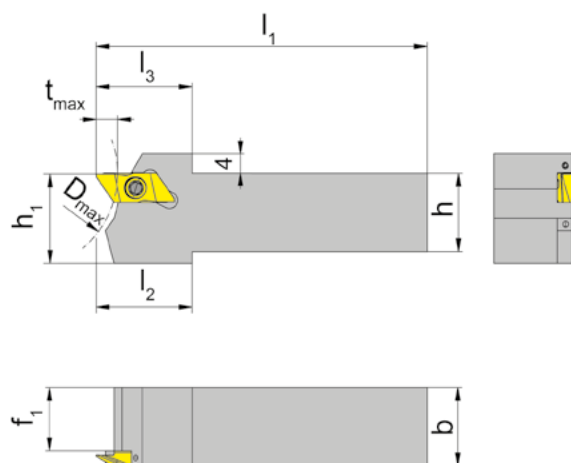
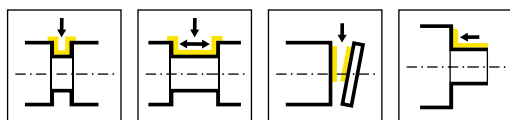
Toolholder for special insert widths and shapes

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU274.0500.07	030.3513.T15P	T15PQ	3 Nm



R = right hand version shown

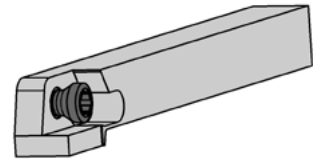
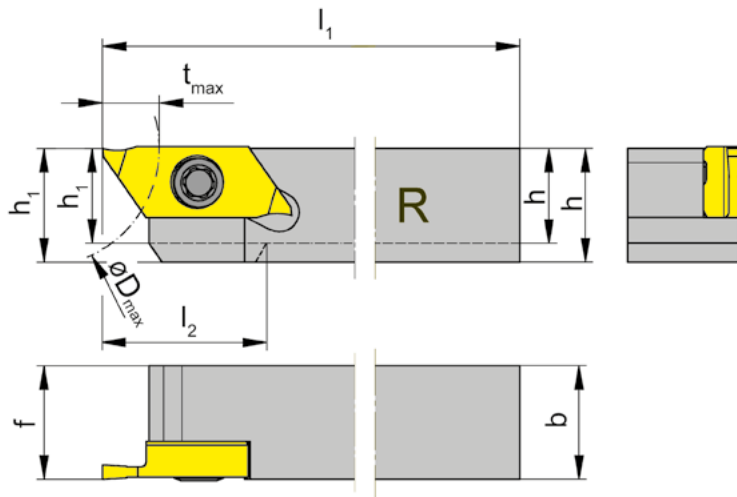
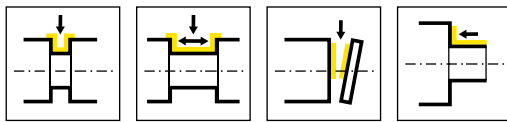
L = left hand version

Part number	h	b	h ₁	D _{max}
RH.274.0505.04.2IK	.500	.500	.500	1.417
LH.274.0505.04.2IK	.500	.500	.500	1.417

These holders use 1/8-27 NPT thread coolant connections

Dimensions in inch





R = right hand version shown

L = left hand version

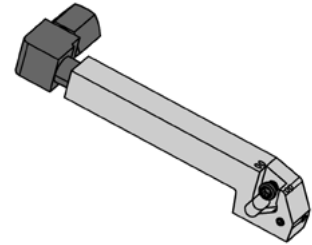
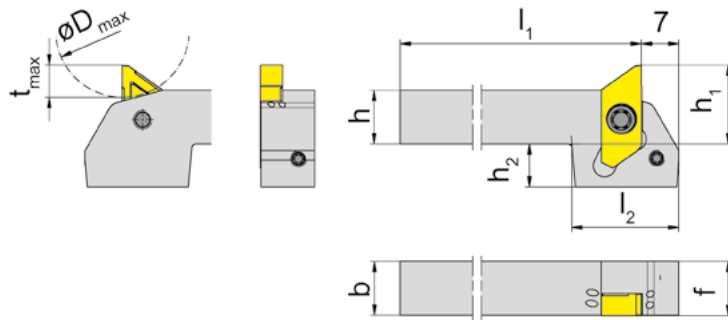
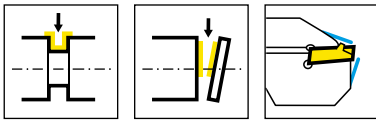
Part number	h	b	l_1	l_2	h_1	f	t_{max}	D_{max}	HWS
RH274.0808.04	8	8	100	16	8	8	6	25	274040R
RH274.1010.04	10	10	100	-	10	10	6	25	274040R
RH274.1212.04	12	12	100	-	12	12	6	25	274040R
RH274.1414.04	14	14	100	-	14	14	6	25	274040R
RH274.1616.04	16	16	125	-	16	16	6	25	274040R
RH274.2020.04	20	20	125	-	20	20	6	25	274040R
RH274.2525.04	25	25	125	-	25	25	6	25	274040R
LH274.0808.04	8	8	100	16	8	8	6	25	274040L
LH274.1010.04	10	10	100	-	10	10	6	25	274040L
LH274.1212.04	12	12	100	-	12	12	6	25	274040L
LH274.1616.04	16	16	125	-	16	16	6	25	274040L
LH274.2020.04	20	20	125	-	20	20	6	25	274040L
LH274.2525.04	25	25	125	-	25	25	6	25	274040L

Holder .0808 has an l_2 offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH274.0808.04	030.350P.0744	T15PQ	3 Nm
R/LH274...	030.3509.T15P	T15PQ	3 Nm



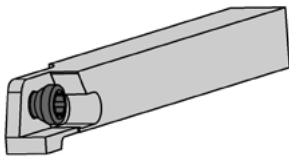
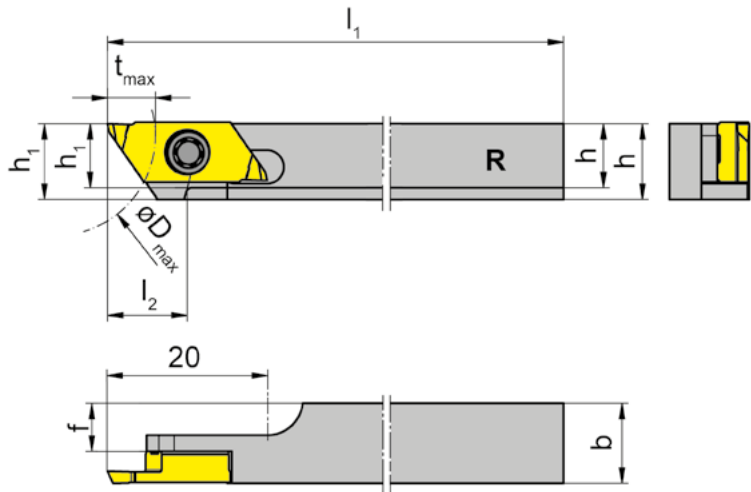
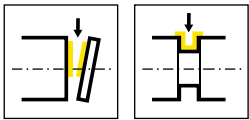
L = left hand version shown

Part number	h	b	l_1	l_2	h_1	f	t_{max}	D_{max}	h_2	HWS
LH274.1010.3.Y.6.24.IK	10	10	73	20	14.7	10	6	25	8	274040L
LH274.1010.4.Y.6.24.IK	10	10	93	20	14.7	10	6	25	8	274040L
LH274.1212.3.Y.6.24.IK	12	12	73	20	16.7	12	6	25	6	274040L
LH274.1212.4.Y.6.24.IK	12	12	93	20	16.7	12	6	25	6	274040L
LH274.1616.3.Y.6.24.IK	16	16	73	20	20.7	16	6	25	2	274040L
LH274.1616.4.Y.6.24.IK	16	16	93	20	20.7	16	6	25	2	274040L

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
LH274....	004.00.22	030.3509.T15P	T15PQ		3 Nm
LH274.1616...	004.00.16	030.3509.T15P	T15PQ	004.00.26	3 Nm



R = right hand version shown

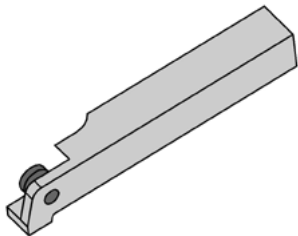
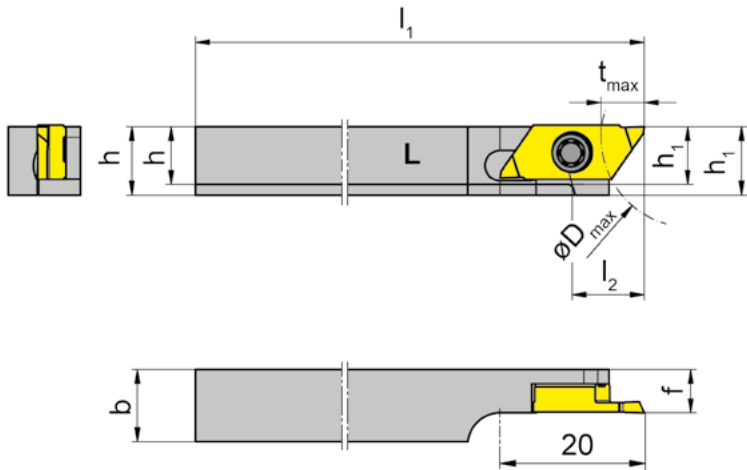
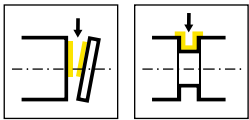
Part number	h	b	l ₁	l ₂	h ₁	f	t _{max}	D _{max}	HWS
RH274.0808.6.04	8	8	100	10	9.5	4	6	25	274040R
RH274.1010.6.04	10	10	100	10	9.5	6	6	25	274040R
RH274.1212.6.04	12	12	100	10	9.5	8	6	25	274040R

Holder .0808 has an l2 offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH274...	030.350P.0981	T15PQ	3 Nm



L = left hand version shown

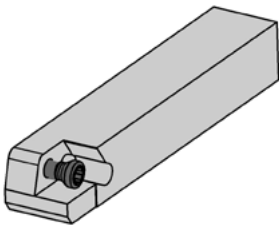
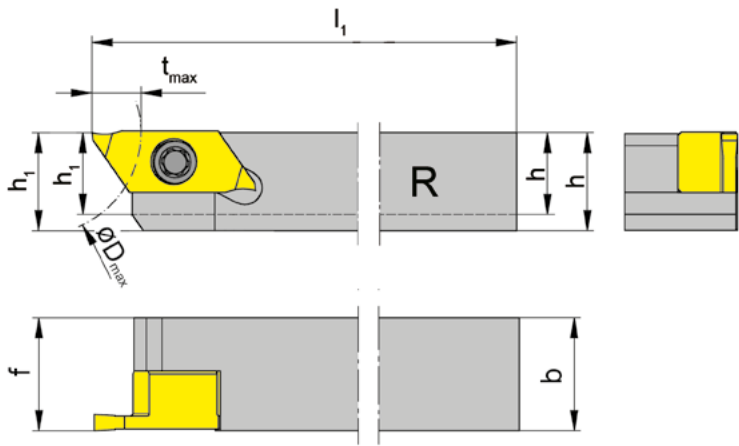
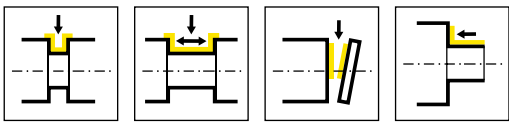
Part number	h	b	l ₁	l ₂	h ₁	f	t _{max}	D _{max}	HWS
LH274.0808.6.04.M	8	8	100	10	9.5	6	6	25	274040L
LH274.1010.6.04.M	10	10	100	10	9.5	6	6	25	274040L
LH274.1212.6.04.M	12	12	100	10	9.5	6	6	25	274040L

Holder .0808 has an l2 offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LH274...	030.350P.0981	T15PQ	3 Nm



R = right hand version shown L = left hand version

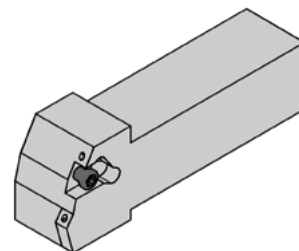
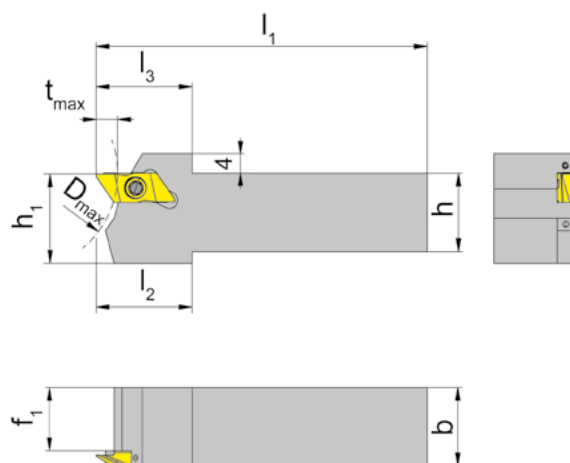
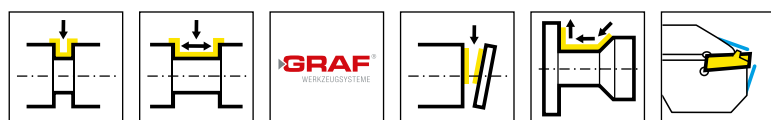
Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	HWS
RH274.1214.07	12	14	100	12	14	6	25	274070R
RH274.1616.07	16	16	125	16	16	6	25	274070R
LH274.1214.07	12	14	100	12	14	6	25	274070L
LH274.1616.07	16	16	125	16	16	6	25	274070L

Toolholder for special insert widths and shapes

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH274...	030.3513.T15P	T15PQ	3 Nm

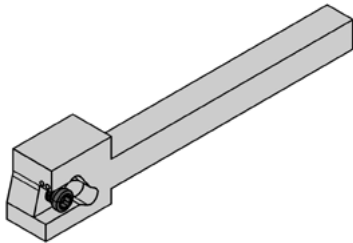
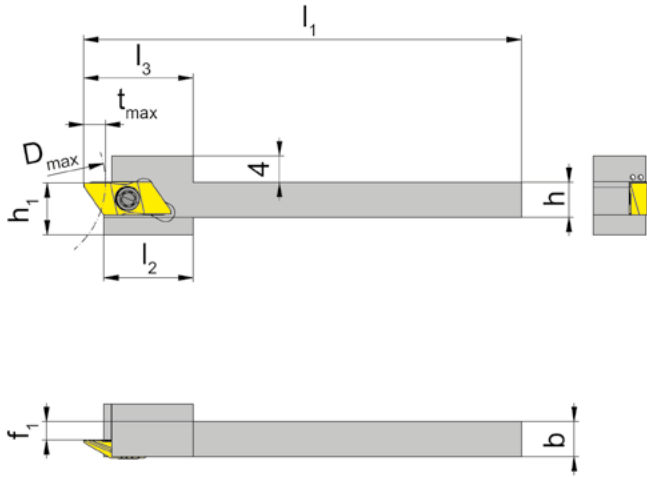
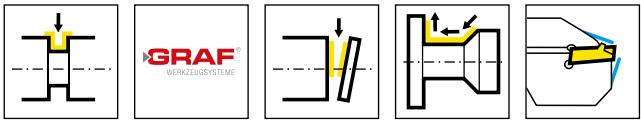


R = right hand version shown

L = left hand version

Part number	h	b	f ₁	l ₁	h ₁	l ₂	l ₃	D _{max}	t _{max}	HWS
974.L.0810.04.2IK	8	10	6.2	100	11	20	20	36	6	274040L
974.L.1012.04.2IK	10	12	8.2	100	13.5	20	20	36	6	274040L
974.L.1212.04.2IK	12	12	8.2	100	14	20	20	36	6	274040L
974.L.1616.04.2IK	16	16	12.2	100	18	20	20	36	6	274040L
974.L.2020.04.2IK	20	20	16.2	100	22	20	20	36	6	274040L
974.R.0810.04.2IK	8	10	6.2	100	11	20	20	36	6	274040R
974.R.1012.04.2IK	10	12	8.2	100	13.5	20	20	36	6	274040R
974.R.1212.04.2IK	12	12	8.2	100	14	20	20	36	6	274040R
974.R.1616.04.2IK	16	16	12.2	100	18	20	20	36	6	274040R
974.R.2020.04.2IK	20	20	16.2	100	22	20	20	36	6	274040R

Dimensions in mm



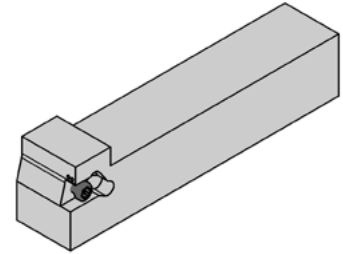
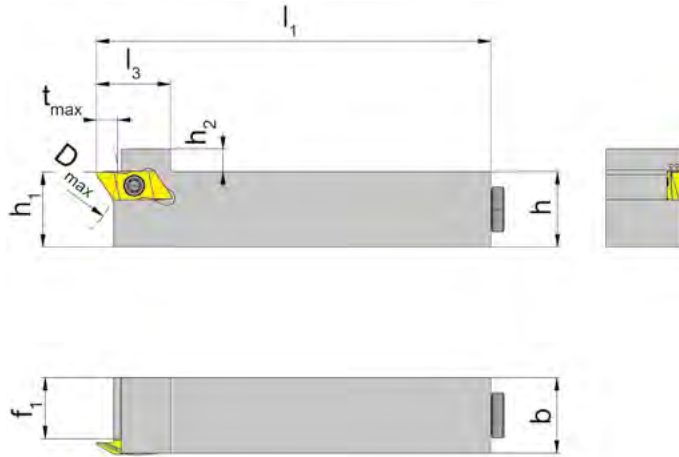
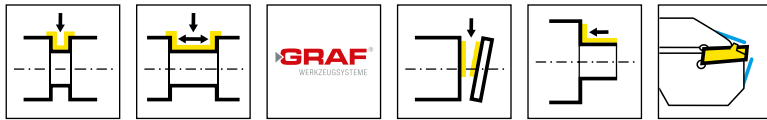
R = right hand version shown L = left hand version

Part number	h	b	l ₁	l	t _{max}	HWS
974.L.0808.04.IKV	8	8	75	100	6	274040L
974.R.0808.04.IKV	8	8	75	100	6	274040R

The clamping screw is included with the holder - a separate order is not required.

Coolant outlet:
Through clamping finger and insert support

Dimensions in mm

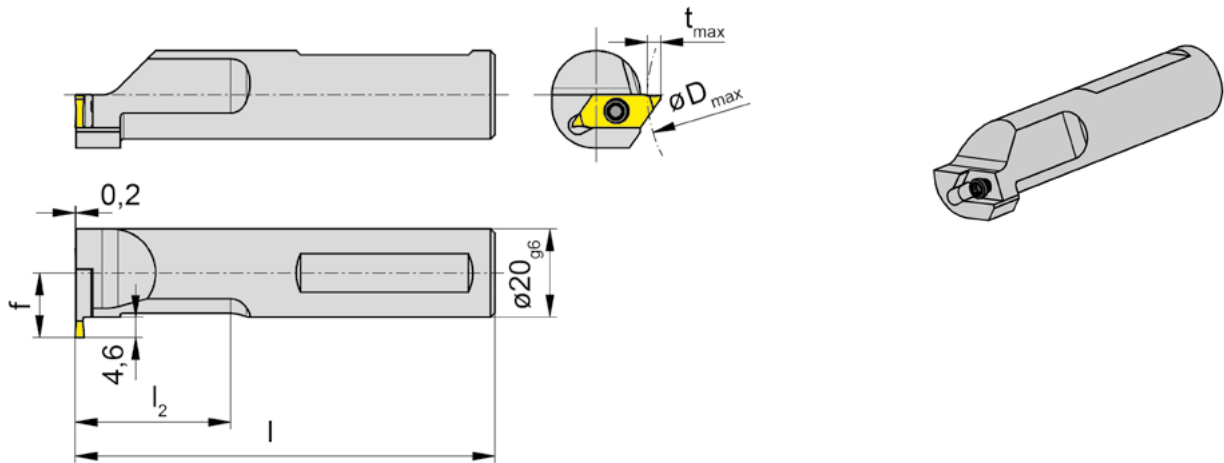
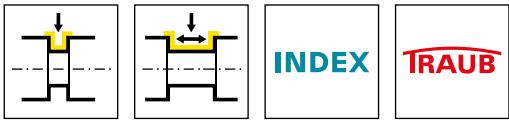


R = right hand version shown

L = left hand version

Part number	h	b	f ₁	l ₁	h ₁	h ₂	l ₃	D _{max}	HWS
974.L.1012.04.IK	10	12	8.2	100	10	3.5	20	36	274040L
974.L.1212.04.IK	12	12	8.2	100	12	3.5	20	36	274040L
974.L.1616.04.IK	16	16	12.2	100	16	3.5	20	36	274040L
974.L.2020.04.IK	20	20	16.2	100	20	3.5	20	36	274040L
974.R.1012.04.IK	10	12	8.2	100	10	3.5	20	36	274040R
974.R.1212.04.IK	12	12	8.2	100	12	3.5	20	36	274040R
974.R.1616.04.IK	16	16	12.2	100	16	3.5	20	36	274040R
974.R.2020.04.IK	20	20	16.2	100	20	3.5	20	36	274040R

Dimensions in mm



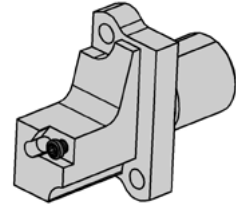
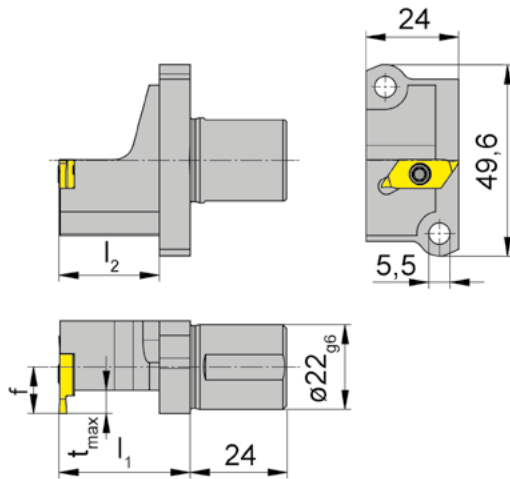
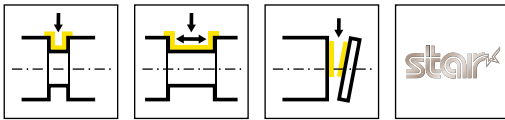
R = right hand version shown

Part number	l	l ₂	f	t _{max}	HWS	HMS
RHC274.0020.1.04	95	35	14.6	6	274040L	Index Traub

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RHC274.0020.1.04	030.3509.T15P	T15PQ	3 Nm



R = right hand version shown

L = left hand version

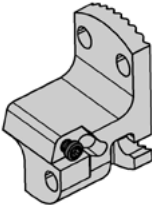
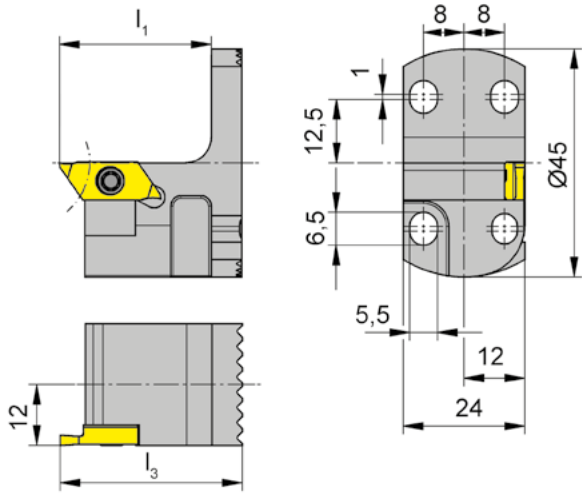
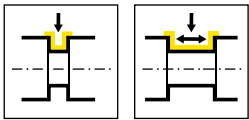
Part number	f	l_1	t_{max}	l_2	HWS	HMS
RH274.A022.09.04	9	34	6	26	274040R	Star
RH274.A022.12.04	12	34	6	26	274040L	Star
RH274.A022.16.04	16	34	6	26	274040L	Star
LH274.A022.09.04	9	34	6	26	274040R	Star
LH274.A022.16.04	16	34	6	26	274040R	Star
LH274.A022.12.07	12	34	6	26	274070R	Star

for Swiss type machines Star

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH274...	030.3513.T15P	T15PQ	3 Nm



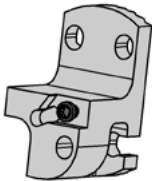
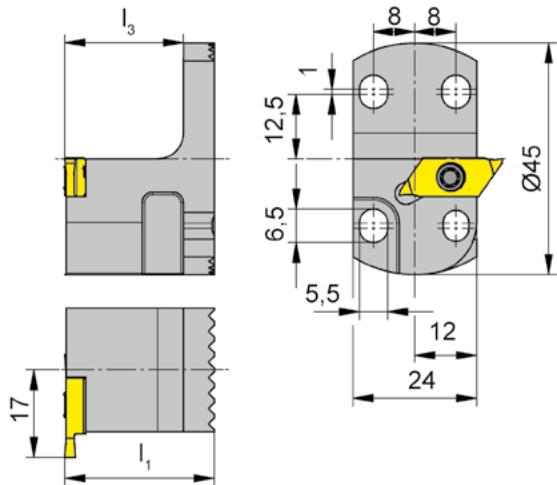
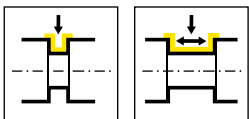
R = right hand version shown L = left hand version

Part number	l ₃	l ₁	HWS
RKT274.2445.04	36	30	274040R
LKT274.2445.04	36	30	274040L

Dimensions in mm

Spare Parts

Cartridge	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LKT274.2445.04	030.3509.T15P	T15PQ	3 Nm



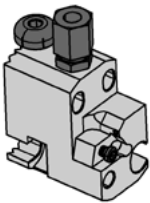
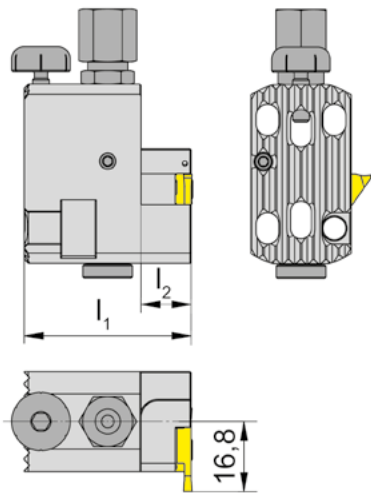
R = right hand version shown

Part number	l_1	l_3	HWS
RKTC274.2445.04	29	23	274040L

Dimensions in mm

Spare Parts

Cartridge	Clamping Screw	TORX PLUS® Wrench	Torque Value
RKTC274.2445.04	030.3509.T15P	T15PQ	3 Nm



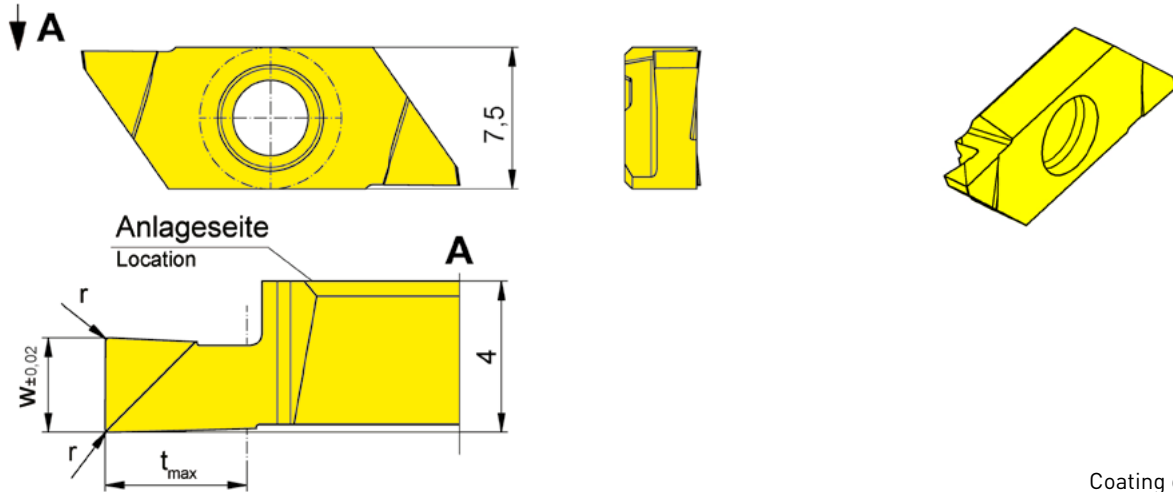
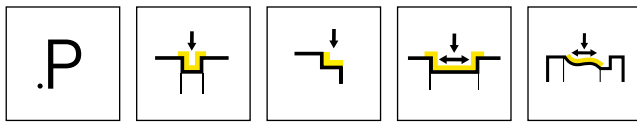
R = right hand version shown

Part number	L ₁	L ₂	HWS
R.76.IK	40	12	274040R

Dimensions in mm

Spare Parts

Cartridge Graf	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R.76.IK	004.00.19	030.3509.T15P	T15PQ	3 Nm



R = right hand version shown

L = left hand version

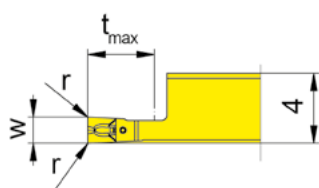
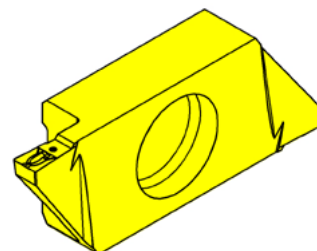
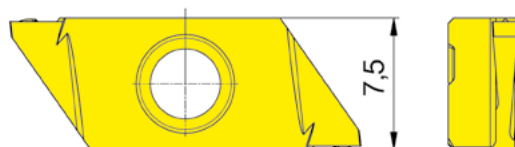
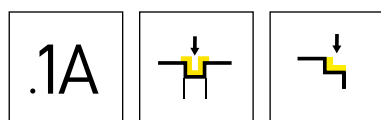
Coating grades

▲ In stock

△ 2 weeks

Part number	w	r	t _{max}	HIS		IG35	TH35
RS274.0050.P0	0.5	-	1	274040R	▲	▲	▲
RS274.0100.P0	1	-	2	274040R	▲	▲	▲
RS274.0150.P0	1.5	0.05	2.25	274040R	▲	▲	▲
RS274.0200.P0	2	0.05	3	274040R	▲	▲	▲
RS274.0250.P0	2.5	0.1	3.75	274040R	▲	▲	▲
RS274.0300.P0	3	0.1	4.5	274040R	▲	▲	▲
LS274.0050.P0	0.5	-	1	274040L	▲	▲	▲
LS274.0100.P0	1	-	2	274040L	▲	▲	▲
LS274.0150.P0	1.5	0.05	2.25	274040L	▲	▲	▲
LS274.0200.P0	2	0.05	3	274040L	△	▲	▲
LS274.0250.P0	2.5	0.1	3.75	274040L	▲	▲	▲
LS274.0300.P0	3	0.1	4.5	274040L	△	▲	▲
					P	●	●
					M	●	●
					K	●	-
					N	○	-
					S	○	-
					H	-	-

Dimensions in mm

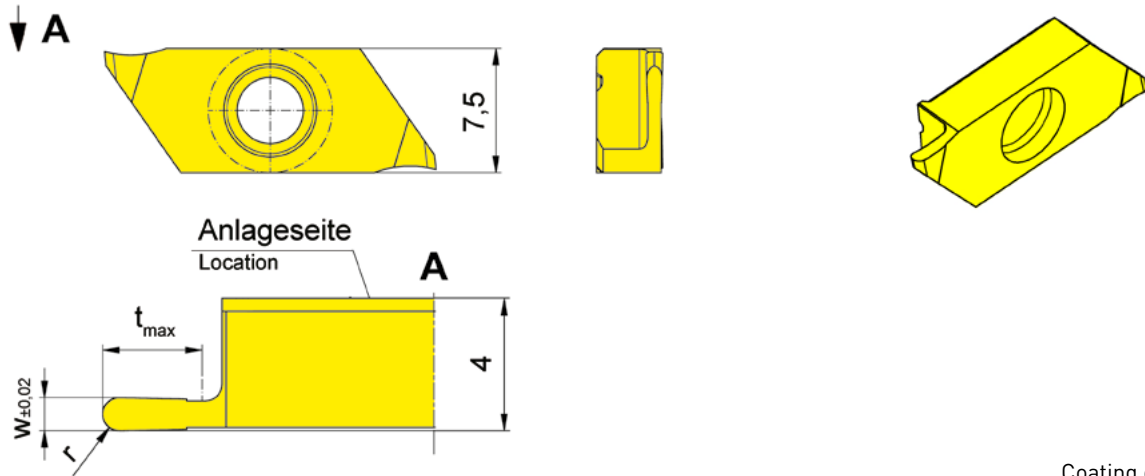
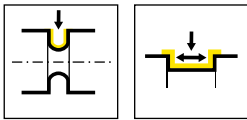


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	HIS		IG35	TH35
RS274.0100.3.1A.05	1	0.05	3	274040R	▲	▲	▲
RS274.0100.3.1A.10	1	0.1	3	274040R	▲	▲	▲
RS274.0150.4.1A.05	1.5	0.05	4	274040R	▲	▲	▲
RS274.0150.4.1A.10	1.5	0.1	4	274040R	▲	▲	▲
RS274.0150.6.1A.05	1.5	0.05	6	274040R	▲	▲	▲
RS274.0150.6.1A.10	1.5	0.1	6	274040R	▲	▲	▲
RS274.0200.4.1A.05	2	0.05	4	274040R	▲	▲	▲
RS274.0200.4.1A.10	2	0.1	4	274040R	▲	▲	▲
RS274.0200.6.1A.05	2	0.05	6	274040R	▲	▲	▲
RS274.0200.6.1A.10	2	0.1	6	274040R	▲	▲	▲
					P	●	●
					M	●	●
					K	●	-
					N	○	-
					S	○	-
					H	-	-



Coating grades

R = right hand version shown

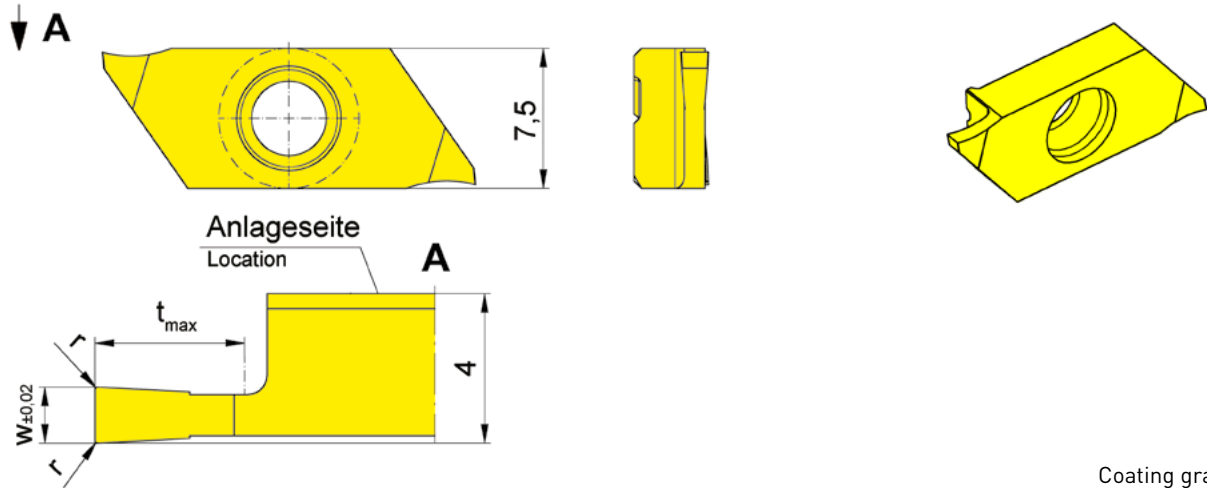
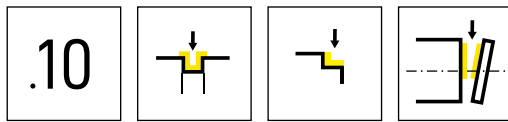
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	HIS		IG35	TH35
RS274.0205.01.10	0.5	0.25	1.5	274040R	▲	▲	▲
RS274.0510.03.10	1	0.5	3	274040R	▲	▲	▲
RS274.1020.04.10	2	1	4	274040R	▲	▲	▲
LS274.0205.01.10	0.5	0.25	1.5	274040L	▲	▲	▲
LS274.0510.03.10	1	0.5	3	274040L	▲	▲	▲
LS274.1020.04.10	2	1	4	274040L	Δ	▲	▲
Coating grades					P	●	●
					M	●	●
					K	●	-
					N	○	-
					S	○	-
					H	-	-

Dimensions in mm



Coating grades

R = right hand version shown

L = left hand version

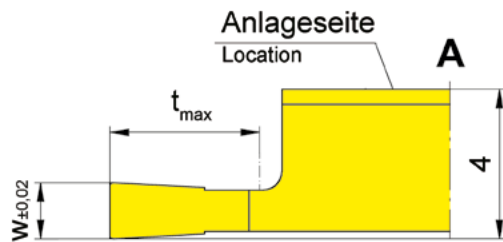
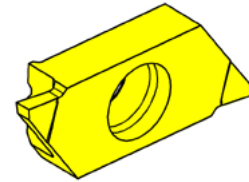
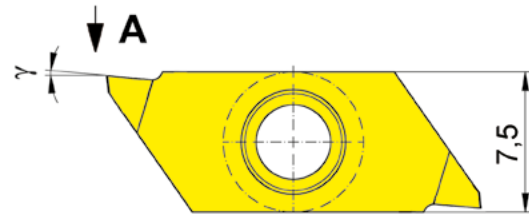
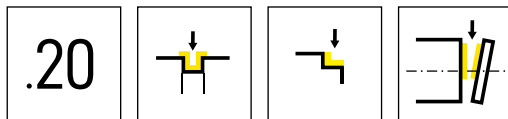
▲ In stock

△ 2 weeks

Part number	w	r	t _{max}	HIS	IG35	TH35
RS274.0050.01.10	0.5	0.05	1.5	274040R	▲	▲
RS274.0070.02.10	0.7	0.05	2	274040R	▲	▲
RS274.0080.03.10	0.8	0.05	3	274040R	▲	▲
RS274.0100.03.10	1	0.05	3	274040R	▲	▲
RS274.0120.03.10	1.2	0.05	3	274040R	▲	▲
RS274.0150.04.10	1.5	0.05	4	274040R	▲	▲
RS274.0150.06.10	1.5	0.05	6	274040R	▲	▲
RS274.0200.04.10	2	0.05	4	274040R	▲	▲
RS274.0200.06.10	2	0.05	6	274040R	▲	▲
LS274.0050.01.10	0.5	0.05	1.5	274040L	▲	▲
LS274.0070.02.10	0.7	0.05	2	274040L	△	▲
LS274.0080.03.10	0.8	0.05	3	274040L	▲	▲
LS274.0100.03.10	1	0.05	3	274040L	▲	▲
LS274.0120.03.10	1.2	0.05	3	274040L	▲	▲
LS274.0150.04.10	1.5	0.05	4	274040L	▲	▲
LS274.0150.06.10	1.5	0.05	6	274040L	▲	▲
LS274.0200.04.10	2	0.05	4	274040L	▲	▲
LS274.0200.06.10	2	0.05	6	274040L	▲	▲

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	o	-
S	o	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

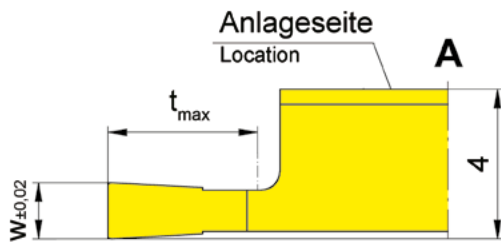
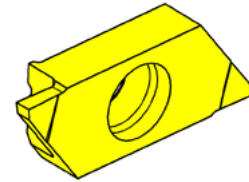
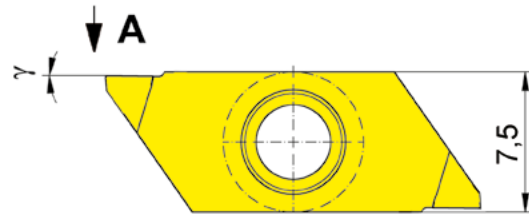
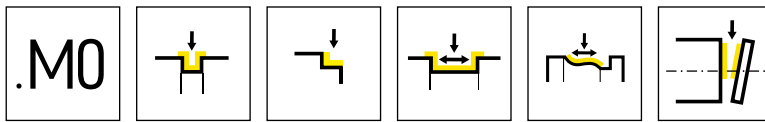
▲ In stock

△ 2 weeks

Part number	w	t _{max}	γ	HIS	IG35	TH35
RS274.0050.01.20	0.5	1.5	5°	274040R	▲	▲
RS274.0070.02.20	0.7	2	5°	274040R	△	▲
RS274.0080.03.20	0.8	3	5°	274040R	△	▲
RS274.0100.03.20	1	3	5°	274040R	▲	▲
RS274.0120.03.20	1.2	3	5°	274040R	△	▲
RS274.0150.04.20	1.5	4	5°	274040R	▲	▲
RS274.0150.06.20	1.5	6	5°	274040R	△	▲
RS274.0200.04.20	2	4	5°	274040R	△	▲
RS274.0200.06.20	2	6	5°	274040R	△	▲
LS274.0050.01.20	0.5	1.5	5°	274040L	△	▲
LS274.0070.02.20	0.7	2	5°	274040L	△	▲
LS274.0080.03.20	0.8	3	5°	274040L	△	▲
LS274.0100.03.20	1	3	5°	274040L	△	▲
LS274.0120.03.20	1.2	3	5°	274040L	△	▲
LS274.0150.04.20	1.5	4	5°	274040L	▲	▲
LS274.0150.06.20	1.5	6	5°	274040L	△	▲
LS274.0200.04.20	2	4	5°	274040L	△	▲
LS274.0200.06.20	2	6	5°	274040L	△	▲

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	o	-
S	o	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

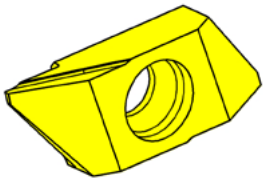
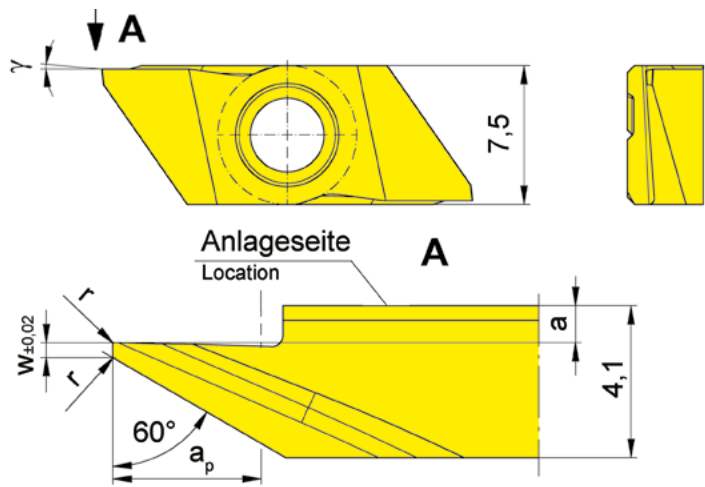
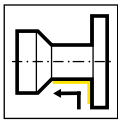
▲ In stock

△ 2 weeks

Part number	w	t _{max}	γ	HIS	IG35	TH35
RS274.0050.01.M0	0.5	1.5	0°	274040R	△	▲
RS274.0070.02.M0	0.7	2	0°	274040R	△	▲
RS274.0080.03.M0	0.8	3	0°	274040R	△	▲
RS274.0100.03.M0	1	3	0°	274040R	△	▲
RS274.0120.03.M0	1.2	3	0°	274040R	△	▲
RS274.0150.04.M0	1.5	4	0°	274040R	△	▲
RS274.0150.06.M0	1.5	6	0°	274040R	△	▲
RS274.0200.04.M0	2	4	0°	274040R	△	▲
RS274.0200.06.M0	2	6	0°	274040R	△	▲
LS274.0050.01.M0	0.5	1.5	0°	274040L	△	▲
LS274.0070.02.M0	0.7	2	0°	274040L	▲	▲
LS274.0080.03.M0	0.8	3	0°	274040L	△	▲
LS274.0100.03.M0	1	3	0°	274040L	△	▲
LS274.0120.03.M0	1.2	3	0°	274040L	△	▲
LS274.0150.04.M0	1.5	4	0°	274040L	△	▲
LS274.0150.06.M0	1.5	6	0°	274040L	△	▲
LS274.0200.04.M0	2	4	0°	274040L	△	▲
LS274.0200.06.M0	2	6	0°	274040L	△	▲

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



R = right hand version shown

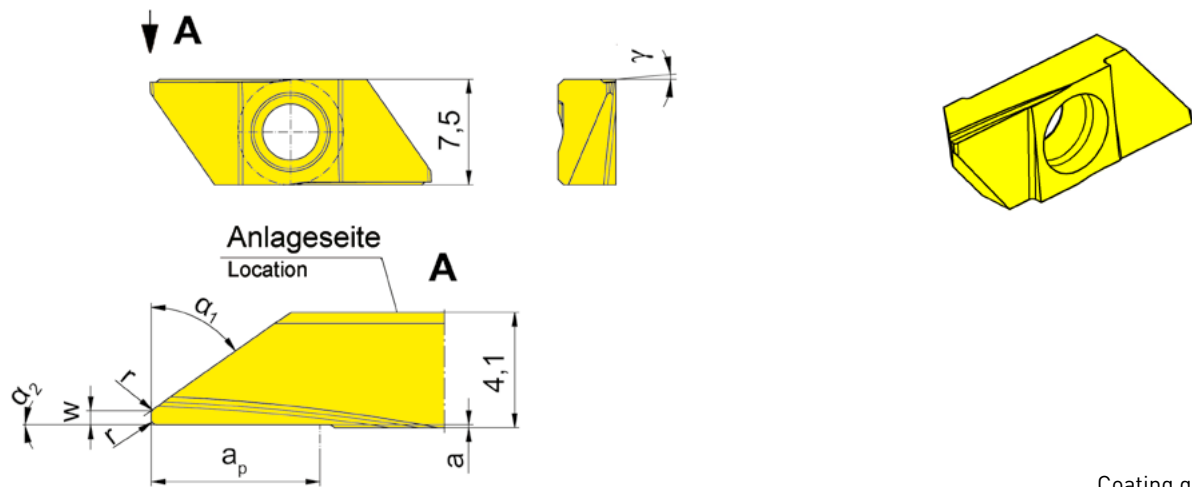
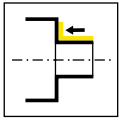
L = left hand version

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a	γ	a _p	HIS		IG35	TH35
RS274.0060.04.10	-	0.05	1	15°	4	274040R	▲	▲	▲
RS274.0460.04.10	0.4	0.05	1	15°	4	274040R	▲	▲	▲
RS274.0460.04.M0	0.4	0.05	1	0°	4	274040R	Δ		
RS274.0560.06.11	0.5	0.1	0.05	15°	6	274040R	▲	▲	▲
LS274.0060.04.10	-	0.05	1	15°	4	274040L	Δ	▲	▲
LS274.0460.04.10	0.4	0.05	1	15°	4	274040L	▲	▲	▲
LS274.0460.04.M0	0.4	0.05	1	0°	4	274040L	Δ		
LS274.0560.06.11	0.5	0.1	0.05	15°	6	274040L	▲	▲	▲
Dimensions in mm							P	●	●
							M	●	●
							K	●	-
							N	○	-
							S	○	-
							H	-	-



Coating grades

R = right hand version shown

L = left hand version

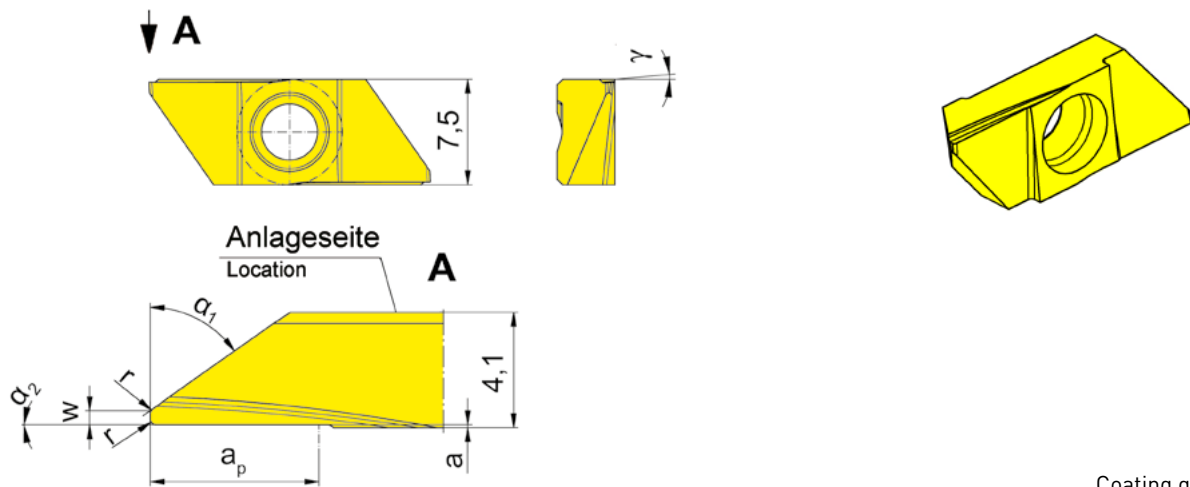
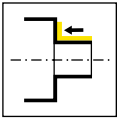
▲ In stock

△ 2 weeks

Part number	w	r	α_1	a	γ	a_p	α_2	HIS	IG35	TH35
RS274.0035.04.20	-	0.05	35°	0.1	5°	4	0°	274040R	▲	▲
RS274.0055.04.20	-	0.05	55°	0.1	5°	4	0°	274040R	△	▲
RS274.0235.04.20	0.2	-	35°	0.1	5°	4	0°	274040R	▲	▲
RS274.0255.04.20	0.2	-	55°	0.1	5°	4	0°	274040R	△	▲
RS274.0535.06.20	0.5	0.2	35°	0.1	5°	6	0°	274040R	▲	▲
RS274.0555.06.20	0.5	0.2	55°	0.1	5°	6	0°	274040R	▲	▲
LS274.0035.04.20	-	0.05	35°	0.1	5°	4	0°	274040L	△	▲
LS274.0055.04.20	-	0.05	55°	0.1	5°	4	0°	274040L	△	▲
LS274.0235.04.20	0.2	-	35°	0.1	5°	4	0°	274040L	△	▲
LS274.0255.04.20	0.2	-	55°	0.1	5°	4	0°	274040L	△	▲
LS274.0535.06.20	0.5	0.2	35°	0.1	5°	6	0°	274040L	△	▲
LS274.0555.06.20	0.5	0.2	55°	0.1	5°	6	0°	274040L	▲	▲

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



R = right hand version shown

L = left hand version

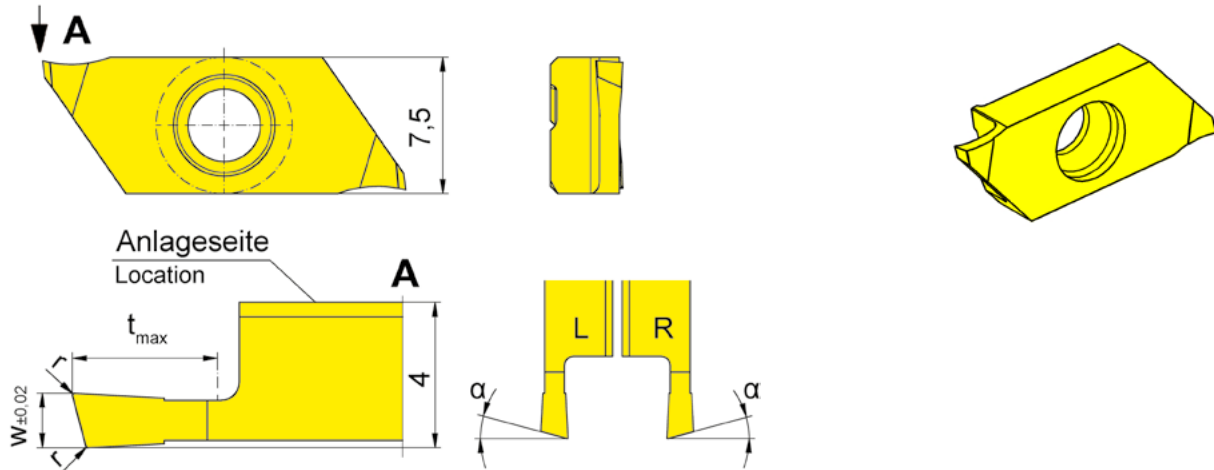
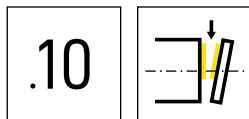
▲ In stock

△ 2 weeks

Coating grades

Part number	w	r	α_1	a	γ	a_p	α_2	HIS		
									IG35	TH35
RS274.0035.24.20	-	0.05	35°	0.1	5°	4	2°	274040R	▲	▲
RS274.0235.24.20	0.2	-	35°	0.1	5°	4	2°	274040R	△	▲
RS274.0535.26.20	0.5	0.2	35°	0.1	5°	6	2°	274040R	▲	▲
RS274.0255.24.20	0.2	-	55°	0.1	5°	4	2°	274040R	△	▲
RS274.0555.26.20	0.5	0.2	55°	0.1	5°	6	2°	274040R	△	▲
LS274.0035.24.20	-	0.05	35°	0.1	5°	4	2°	274040L	△	▲
LS274.0235.24.20	0.2	-	35°	0.1	5°	4	2°	274040L	▲	△
LS274.0535.26.20	0.5	0.2	35°	0.1	5°	6	2°	274040L	▲	▲
LS274.0255.24.20	0.2	-	55°	0.1	5°	4	2°	274040L	△	△
LS274.0555.26.20	0.5	0.2	55°	0.1	5°	6	2°	274040L	△	△
									P	● ●
									M	● ●
									K	● -
									N	○ -
									S	○ -
									H	- -

Dimensions in mm



Coating grades

R = right hand version shown

L = left hand version

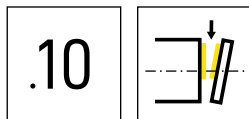
▲ In stock

Δ 2 weeks

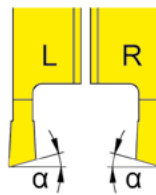
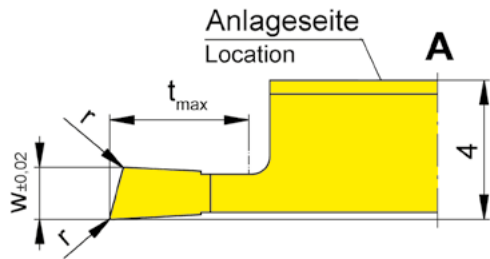
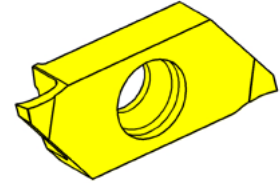
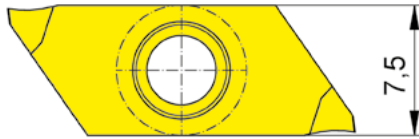
Part number	w	r	t _{max}	α	HIS	IG35	TH35
RS274.1508.03.10	0.8	0.05	3	15°	274040R	▲	▲
RS274.1510.03.10	1	0.05	3	15°	274040R	▲	▲
RS274.1515.04.10	1.5	0.05	4	15°	274040R	▲	▲
RS274.1520.06.10	2	0.05	6	15°	274040R	▲	▲
LS274.1508.03.10	0.8	0.05	3	15°	274040L	▲	▲
LS274.1510.03.10	1	0.05	3	15°	274040L	▲	▲
LS274.1515.04.10	1.5	0.05	4	15°	274040L	▲	▲
LS274.1520.06.10	2	0.05	6	15°	274040L	▲	▲
						P	●
						M	●
						K	●
						N	○
						S	○
						H	-

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm



↓ A



Coating grades

R = right hand version shown

L = left hand version

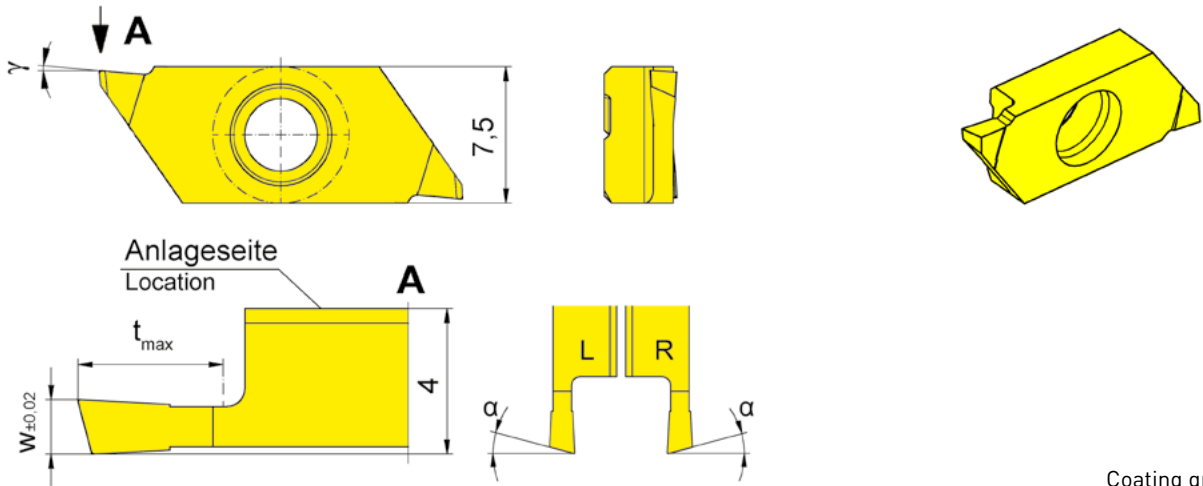
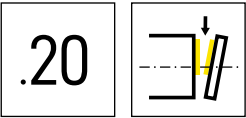
▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	α	HIS	IG35	TH35
RS274.1508.03.10L	0.8	0.05	3	15°	274040R	Δ	▲
RS274.1510.03.10L	1	0.05	3	15°	274040R	Δ	▲
RS274.1515.04.10L	1.5	0.05	4	15°	274040R	Δ	▲
RS274.1520.06.10L	2	0.05	6	15°	274040R	Δ	▲
LS274.1508.03.10R	0.8	0.05	3	15°	274040L	▲	▲
LS274.1510.03.10R	1	0.05	3	15°	274040L	▲	▲
LS274.1515.04.10R	1.5	0.05	4	15°	274040L	▲	▲
LS274.1520.06.10R	2	0.05	6	15°	274040L	▲	▲
						P	●
						M	●
						K	●
						N	○
						S	○
						H	-

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

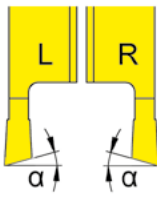
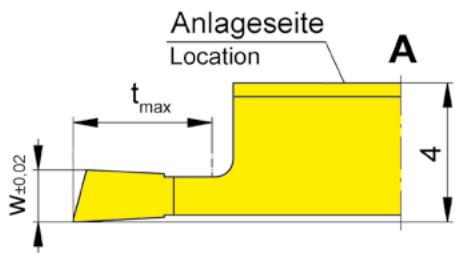
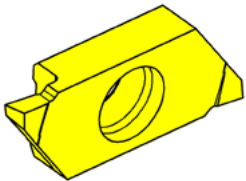
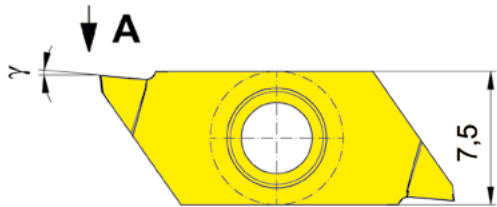
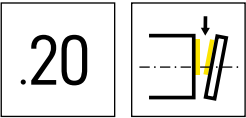


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS		IG35	TH35
RS274.1515.04.20	1.5	4	15°	5°	274040R		Δ	▲
RS274.1520.06.20	2	6	15°	5°	274040R		Δ	▲
LS274.1515.04.20	1.5	4	15°	5°	274040L		Δ	▲
LS274.1520.06.20	2	6	15°	5°	274040L		Δ	▲
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.							P	● ●
Dimensions in mm							M	● ●
							K	● -
							N	○ -
							S	○ -
							H	- -



R = right hand version shown

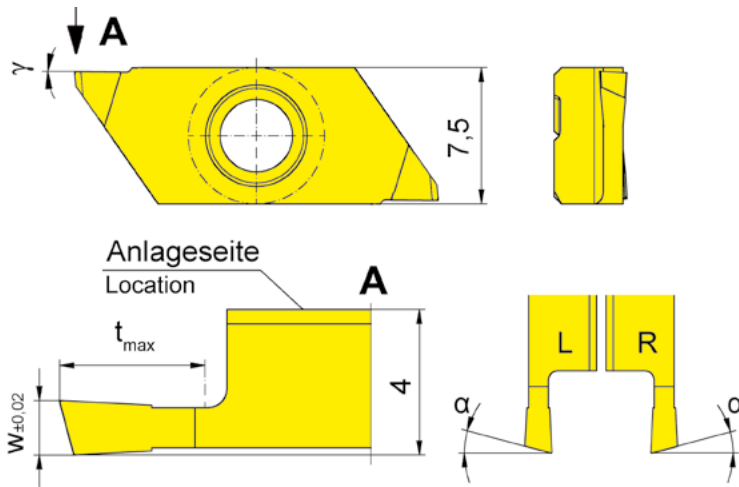
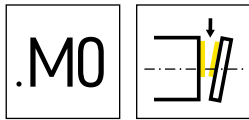
L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS		IG35	TH35
RS274.1520.06.20L	2	6	15°	5°	274040R		Δ	▲
LS274.1515.04.20R	1.5	4	15°	5°	274040L		Δ	▲
LS274.1520.06.20R	2	6	15°	5°	274040L		Δ	▲
						P	●	●
						M	●	●
						K	●	-
						N	○	-
						S	○	-
						H	-	-

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm



Coating grades

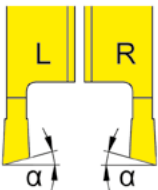
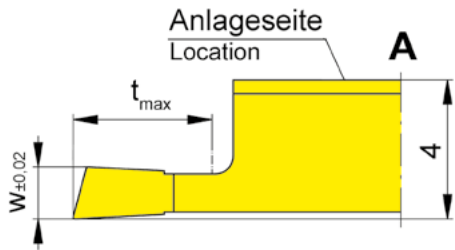
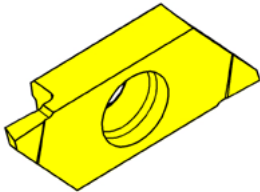
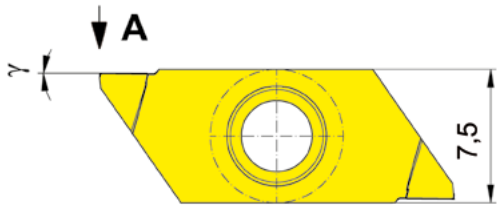
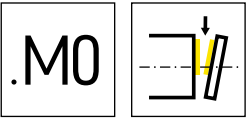
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS	IG35	TH35
RS274.1508.03.M0	0.8	3	15°	0°	274040R	Δ	▲
RS274.1510.03.M0	1	3	15°	0°	274040R	Δ	▲
RS274.1515.04.M0	1.5	4	15°	0°	274040R	Δ	▲
RS274.1520.06.M0	2	6	15°	0°	274040R	Δ	▲
LS274.1508.03.M0	0.8	3	15°	0°	274040L	Δ	▲
LS274.1510.03.M0	1	3	15°	0°	274040L	Δ	▲
LS274.1515.04.M0	1.5	4	15°	0°	274040L	Δ	▲
LS274.1520.06.M0	2	6	15°	0°	274040L	Δ	▲
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.						P	●
Dimensions in mm						M	●
						K	●
						N	○
						S	○
						H	-



R = right hand version shown

L = left hand version

Coating grades

▲ In stock

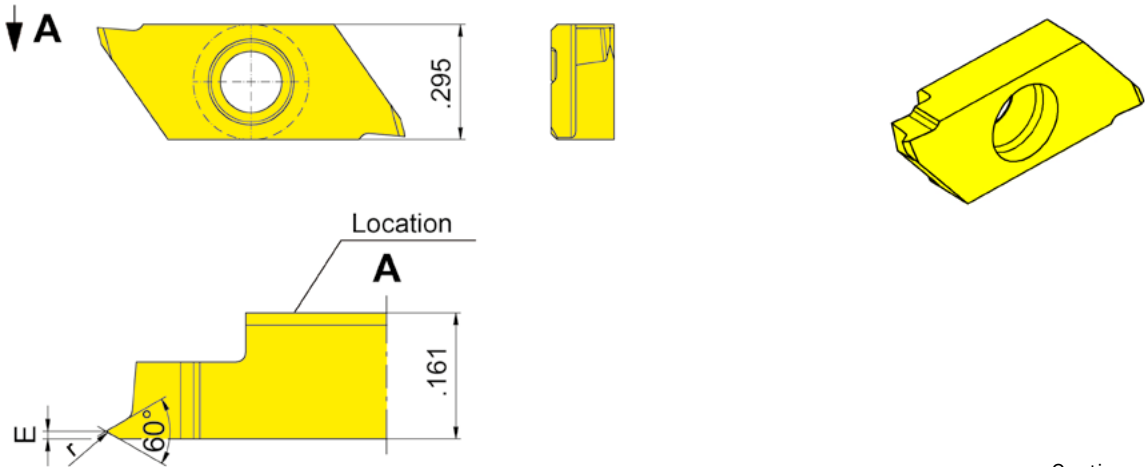
Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS	IG35	TH35
RS274.1515.04.M0L	1.5	4	15°	0°	274040R	Δ	▲
RS274.1520.06.M0L	2	6	15°	0°	274040R	Δ	▲
LS274.1508.03.M0R	0.8	3	15°	0°	274040L	Δ	▲
LS274.1510.03.M0R	1	3	15°	0°	274040L	Δ	▲
LS274.1515.04.M0R	1.5	4	15°	0°	274040L	Δ	▲
LS274.1520.06.M0R	2	6	15°	0°	274040L	Δ	▲

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-

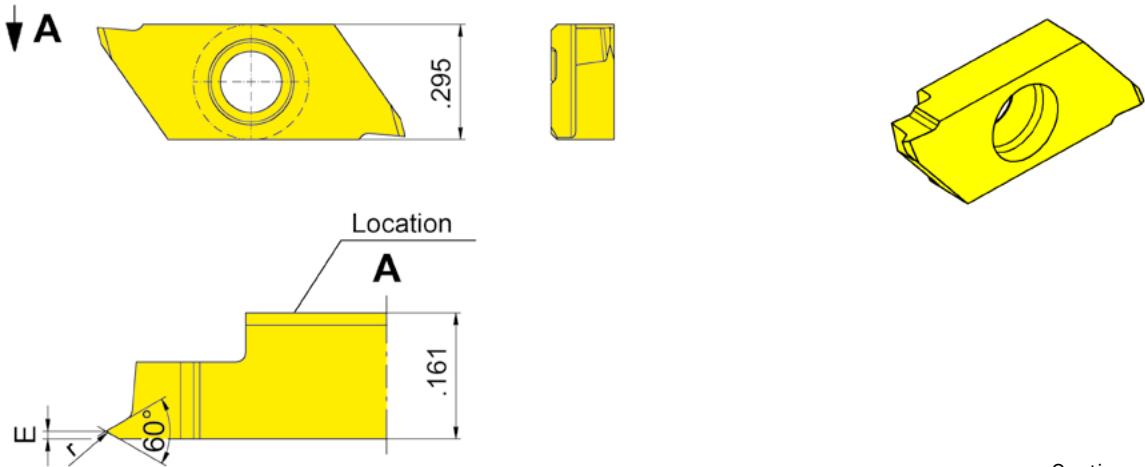


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

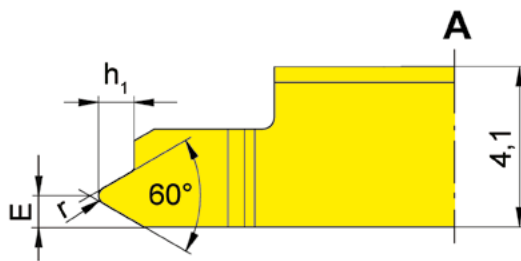
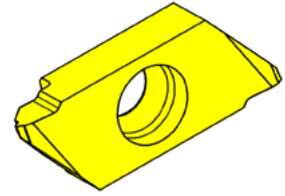
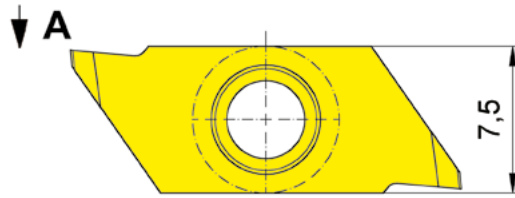
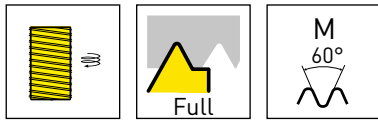
Part number	TPI	E	r	HIS	IG35	
RSU274.1220.01	12-20	.051	.007	274040R	▲	
RSU274.1832.01	18-32	.039	.005	274040R	▲	
RSU274.2864.01	28-64	.028	.002	274040R	▲	
tmax .236" can be reached only with workpiece Ø ≤ .984".					P	●
Dimensions in inch					M	●
					K	●
					N	○
					S	○
					H	-



R = right hand version shown

Coating grades
▲ In stock Δ 2 weeks

Part number	P	TPI	E	r	HIS		IG35	TH35
RS274.0102.01	0.25	127-102	0.2	0.04	274040R		▲	▲
RS274.0203.01	0.35	102-74	0.25	0.05	274040R		▲	▲
RS274.0204.01	0.4	84-64	0.3	0.06	274040R		▲	▲
Dimensions in mm						P	●	●
						M	●	●
						K	●	-
						N	○	-
						S	○	-
						H	-	-



Coating grades

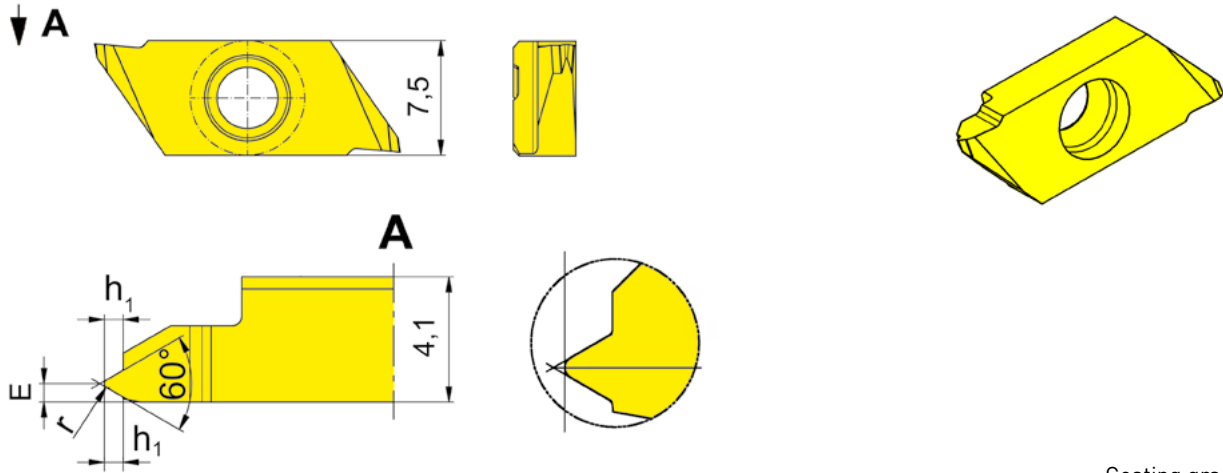
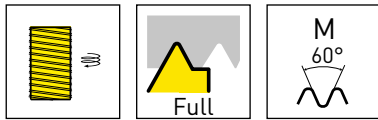
R = right hand version shown

L = left hand version

▲ In stock

△ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	IG35	TH35
RS274.0305.02	0.5	50	0.4	0.07	0.31	274040R	▲	▲
RS274.0306.02	0.6	42	0.45	0.09	0.37	274040R	△	▲
RS274.0307.02	0.7	36	0.5	0.1	0.43	274040R	▲	▲
RS274.0407.02	0.75	33	0.5	0.11	0.46	274040R	▲	▲
RS274.0408.02	0.8	31	0.55	0.12	0.49	274040R	▲	▲
RS274.0610.02	1	25	0.6	0.14	0.61	274040R	▲	▲
RS274.0712.02	1.25	20	0.7	0.15	0.77	274040R	▲	▲
RS274.0915.02	1.5	16	0.8	0.2	0.92	274040R	▲	▲
LS274.0305.02	0.5	50	0.4	0.07	0.31	274040L	△	▲
LS274.0306.02	0.6	42	0.45	0.09	0.37	274040L	△	▲
LS274.0307.02	0.7	36	0.5	0.1	0.43	274040L	△	▲
LS274.0407.02	0.75	33	0.5	0.11	0.46	274040L	△	▲
LS274.0408.02	0.8	31	0.55	0.12	0.49	274040L	△	▲
LS274.0610.02	1	25	0.6	0.14	0.61	274040L	△	▲
LS274.0712.02	1.25	20	0.7	0.15	0.77	274040L	▲	▲
LS274.0915.02	1.5	16	0.8	0.2	0.92	274040L	△	▲
Dimensions in mm							P	•
							M	•
							K	•
							N	o
							S	o
							H	-



Coating grades

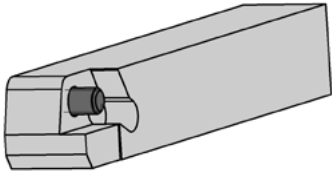
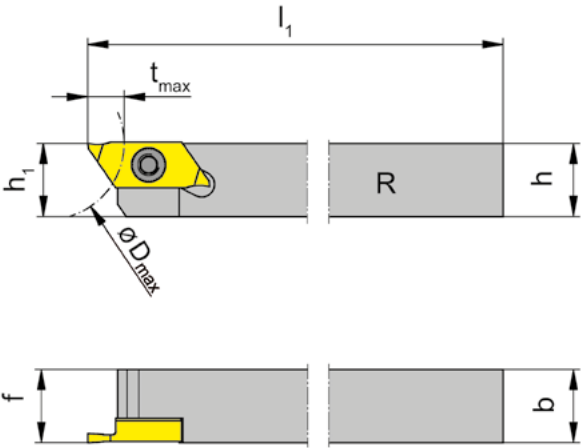
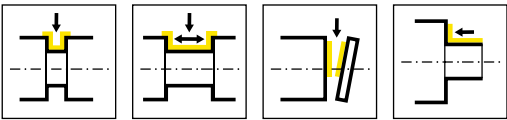
R = right hand version shown

L = left hand version

▲ In stock

△ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	IG35	TH35
RS274.0305.03	0.5	50	0.4	0.07	0.31	274040R	△	▲
RS274.0306.03	0.6	42	0.45	0.09	0.37	274040R	△	▲
RS274.0307.03	0.7	36	0.5	0.1	0.43	274040R	△	▲
RS274.0407.03	0.75	33	0.5	0.11	0.46	274040R	△	▲
RS274.0408.03	0.8	31	0.55	0.12	0.49	274040R	△	▲
RS274.0610.03	1	25	0.6	0.14	0.61	274040R	▲	▲
RS274.0712.03	1.25	20	0.7	0.15	0.77	274040R	△	▲
RS274.0915.03	1.5	16	0.8	0.2	0.92	274040R	△	▲
LS274.0305.03	0.5	50	0.4	0.07	0.31	274040L	△	▲
LS274.0306.03	0.6	42	0.45	0.09	0.37	274040L	△	▲
LS274.0307.03	0.7	36	0.5	0.1	0.43	274040L	△	▲
LS274.0407.03	0.75	33	0.5	0.11	0.46	274040L	△	▲
LS274.0408.03	0.8	31	0.55	0.12	0.49	274040L	△	▲
LS274.0610.03	1	25	0.6	0.14	0.61	274040L	△	▲
LS274.0712.03	1.25	20	0.7	0.15	0.77	274040L	△	▲
LS274.0915.03	1.5	16	0.8	0.2	0.92	274040L	△	▲
Machining of both flanks							P	● ●
Dimensions in mm							M	● ●
							K	● -
							N	o -
							S	o -
							H	- -



R = right hand version shown

L = left hand version

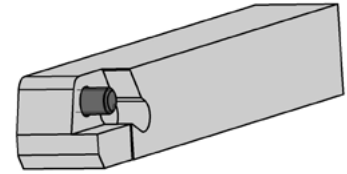
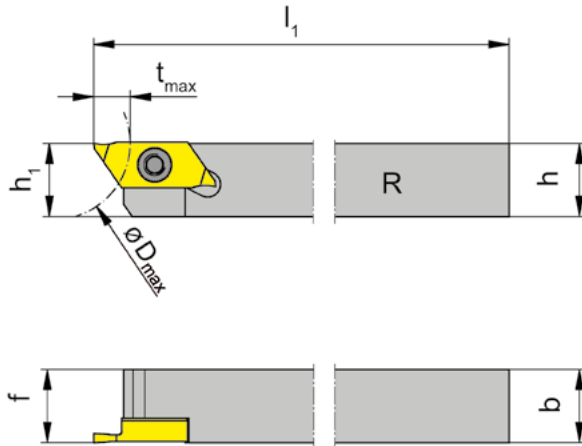
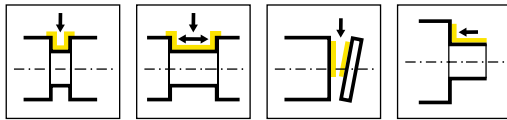
Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	HWS
RHU274.0500.04.E	.500	.500	3.996	.500	.500	.236	.984	274140R

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RHU274.0500.04.E	030.3509.T15P	T15PQ	3 Nm



R = right hand version shown

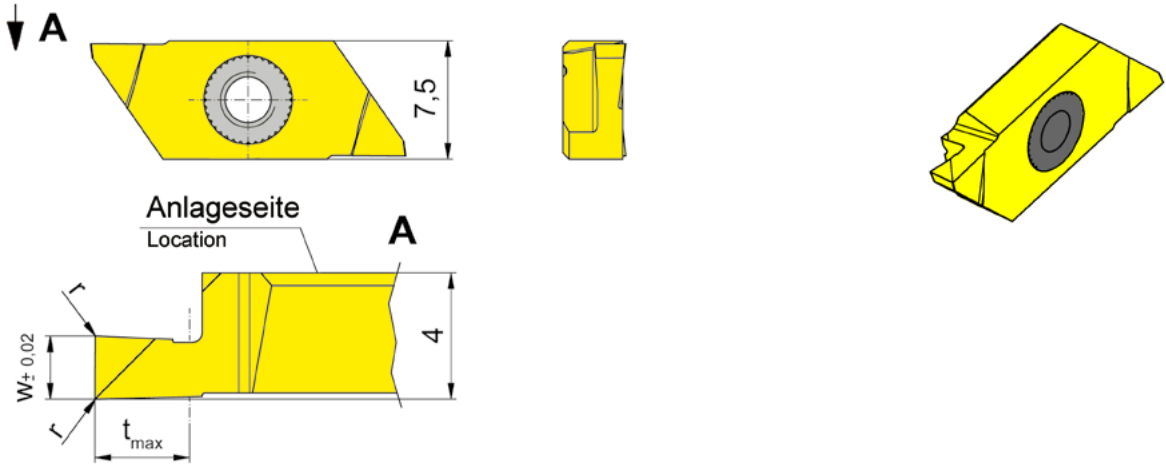
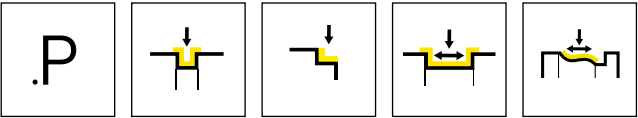
L = left hand version

Part number	h	b	l_1	h_1	f	t_{max}	D_{max}	HWS
RH274.0808.04.E	8	8	100	8	8	6	25	274140R
RH274.1010.04.E	10	10	100	10	10	6	25	274140R
RH274.1212.04.E	12	12	100	12	12	6	25	274140R
RH274.1616.04.E	16	16	125	16	16	6	25	274140R
RH274.2020.04.E	20	20	125	20	20	6	25	274140R
LH274.0808.04.E	8	8	100	8	8	6	25	274140L
LH274.1010.04.E	10	10	100	10	10	6	25	274140L
LH274.1212.04.E	12	12	100	12	12	6	25	274140L
LH274.1616.04.E	16	16	125	16	16	6	25	274140L
LH274.2020.04.E	20	20	125	20	20	6	25	274140L

Dimensions in mm

Spare Parts

Toolholder	TORX PLUS® Wrench	Clamping Screw	Torque Value
R/LH274.0808.04.E	T15PQ	030.3507.T15P	3 Nm
R/LH274...	T15PQ	030.3509.T15P	3 Nm



R = right hand version shown

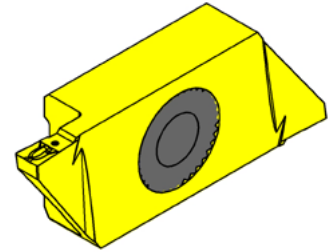
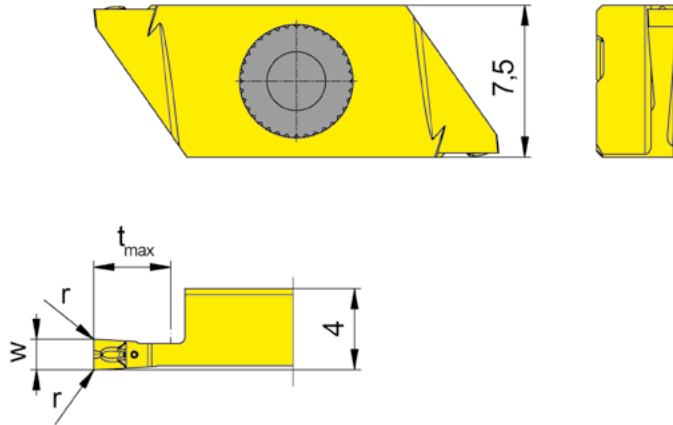
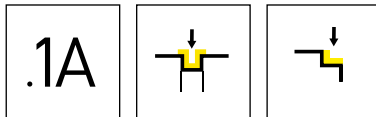
L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	HIS		
					IG35	TH35
RS274.0150.P0.E	1.5	0.05	2.25	274140R	Δ	Δ
RS274.0200.P0.E	2	0.05	3	274140R	Δ	Δ
RS274.0250.P0.E	2.5	0.1	3.75	274140R	Δ	Δ
RS274.0300.P0.E	3	0.1	4.5	274140R	Δ	Δ
LS274.0150.P0.E	1.5	0.05	2.25	274140L	Δ	Δ
LS274.0200.P0.E	2	0.05	3	274140L	Δ	Δ
LS274.0250.P0.E	2.5	0.1	3.75	274140L	Δ	Δ
LS274.0300.P0.E	3	0.1	4.5	274140L	Δ	Δ
Dimensions in mm					P	● ●
					M	● ●
					K	● -
					N	o -
					S	o -
					H	- -

Indexable insert

E274 / S274



Coating grades

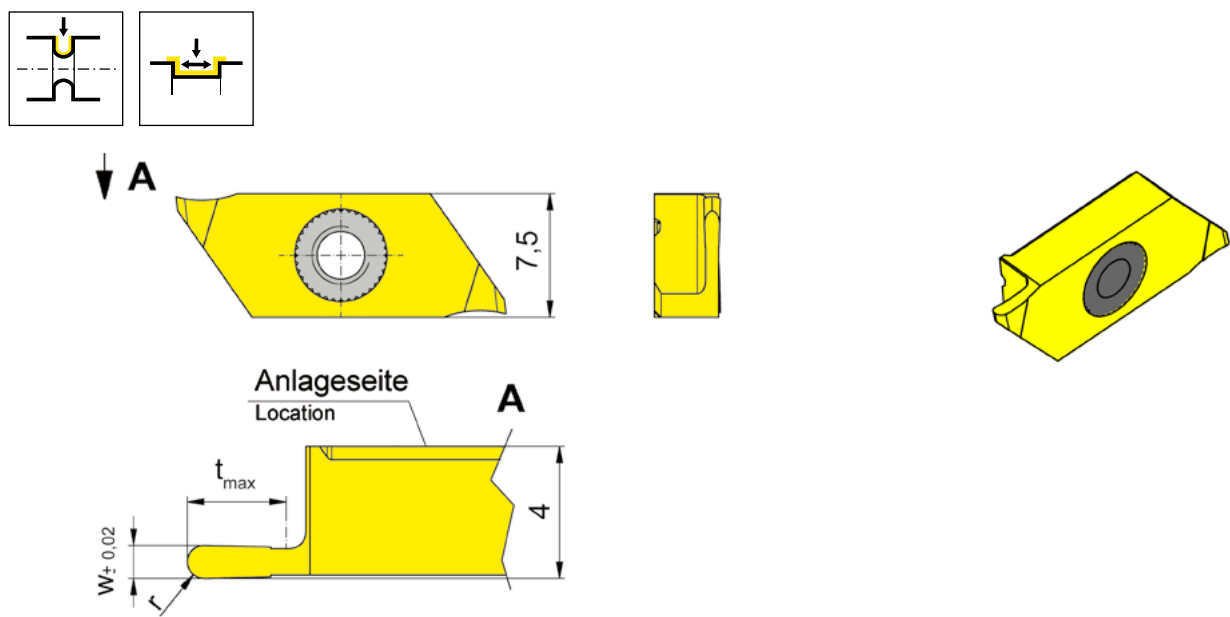
▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	HIS	IG35	TH35
RE274.0100.3.1A.05	1	0.05	3	274040R	Δ	Δ
RE274.0100.3.1A.10	1	0.1	3	274040R	Δ	Δ
RE274.0150.4.1A.05	1.5	0.05	4	274040R	Δ	Δ
RE274.0150.4.1A.10	1.5	0.1	4	274040R	Δ	Δ
RE274.0150.6.1A.05	1.5	0.05	6	274040R	Δ	Δ
RE274.0150.6.1A.10	1.5	0.1	6	274040R	Δ	Δ
RE274.0200.4.1A.05	2	0.05	4	274040R	Δ	Δ
RE274.0200.4.1A.10	2	0.1	4	274040R	Δ	Δ
RE274.0200.6.1A.05	2	0.05	6	274040R	Δ	Δ
RE274.0200.6.1A.10	2	0.1	6	274040R	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-

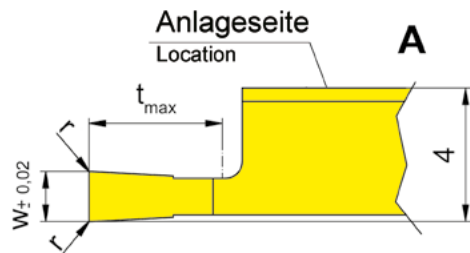
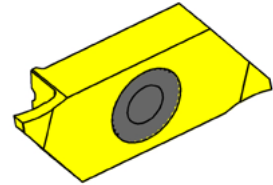
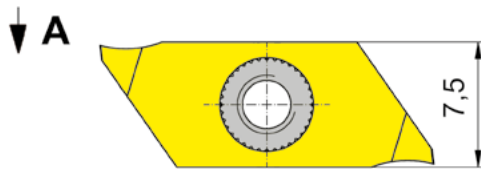
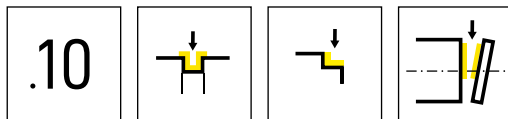


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	HIS		
					IG35	TH35
RS274.0205.01.10.E	0.5	0.25	1.5	274140R	Δ	Δ
RS274.0510.03.10.E	1	0.5	3	274140R	Δ	Δ
RS274.1020.04.10.E	2	1	4	274140R	Δ	Δ
LS274.0205.01.10.E	0.5	0.25	1.5	274140L	Δ	Δ
LS274.0510.03.10.E	1	0.5	3	274140L	Δ	Δ
LS274.1020.04.10.E	2	1	4	274140L	Δ	Δ
Dimensions in mm					P	● ●
					M	● ●
					K	● -
					N	○ -
					S	○ -
					H	- -



Coating grades

R = right hand version shown

L = left hand version

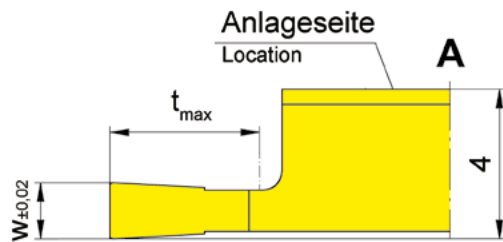
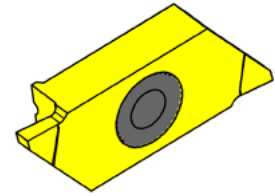
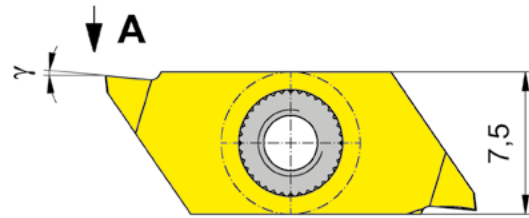
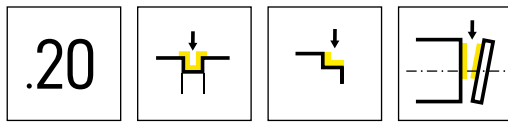
▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	HIS	IG35	TH35
RS274.0050.01.10.E	0.5	0.05	1.5	274140R	Δ	Δ
RS274.0070.02.10.E	0.7	0.05	2	274140R	Δ	Δ
RS274.0080.03.10.E	0.8	0.05	3	274140R	Δ	Δ
RS274.0100.03.10.E	1	0.05	3	274140R	Δ	▲
RS274.0120.03.10.E	1.2	0.05	3	274140R	Δ	Δ
RS274.0150.04.10.E	1.5	0.05	4	274140R	Δ	Δ
RS274.0150.06.10.E	1.5	0.05	6	274140R	Δ	▲
RS274.0200.04.10.E	2	0.05	4	274140R	Δ	Δ
RS274.0200.06.10.E	2	0.05	6	274140R	Δ	Δ
LS274.0050.01.10.E	0.5	0.05	1.5	274140L	Δ	Δ
LS274.0070.02.10.E	0.7	0.05	2	274140L	Δ	Δ
LS274.0080.03.10.E	0.8	0.05	3	274140L	Δ	Δ
LS274.0100.03.10.E	1	0.05	3	274140L	Δ	Δ
LS274.0120.03.10.E	1.2	0.05	3	274140L	Δ	Δ
LS274.0150.04.10.E	1.5	0.05	4	274140L	Δ	Δ
LS274.0150.06.10.E	1.5	0.05	6	274140L	Δ	Δ
LS274.0200.04.10.E	2	0.05	4	274140L	Δ	Δ
LS274.0200.06.10.E	2	0.05	6	274140L	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

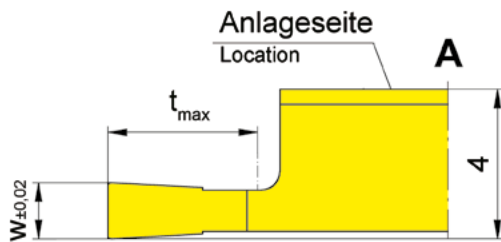
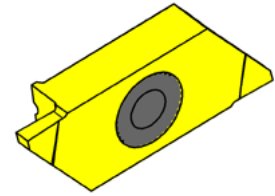
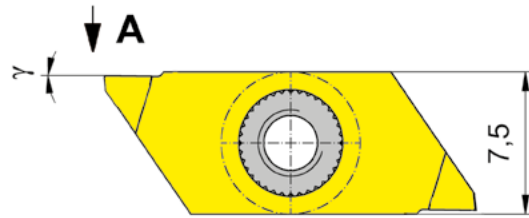
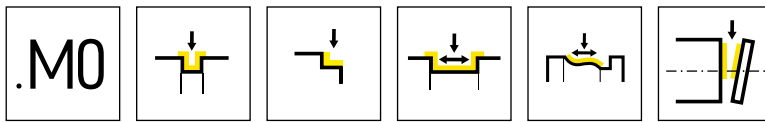
▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	HIS	IG35	TH35
RS274.0050.01.20.E	0.5	1.5	5°	274140R	Δ	Δ
RS274.0070.02.20.E	0.7	2	5°	274140R	Δ	Δ
RS274.0080.03.20.E	0.8	3	5°	274140R	Δ	Δ
RS274.0100.03.20.E	1	3	5°	274140R	Δ	Δ
RS274.0120.03.20.E	1.2	3	5°	274140R	Δ	Δ
RS274.0150.06.20.E	1.5	6	5°	274140R	Δ	Δ
RS274.0200.04.20.E	2	4	5°	274140R	Δ	Δ
RS274.0200.06.20.E	2	6	5°	274140R	Δ	Δ
LS274.0050.01.20.E	0.5	1.5	5°	274140L	Δ	Δ
LS274.0070.02.20.E	0.7	2	5°	274140L	Δ	Δ
LS274.0080.03.20.E	0.8	3	5°	274140L	Δ	Δ
LS274.0100.03.20.E	1	3	5°	274140L	Δ	Δ
LS274.0120.03.20.E	1.2	3	5°	274140L	Δ	Δ
LS274.0150.06.20.E	1.5	6	5°	274140L	Δ	Δ
LS274.0200.04.20.E	2	4	5°	274140L	Δ	Δ
LS274.0200.06.20.E	2	6	5°	274140L	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	o	-
S	o	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

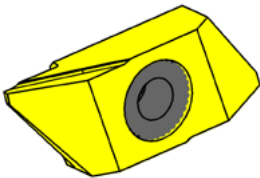
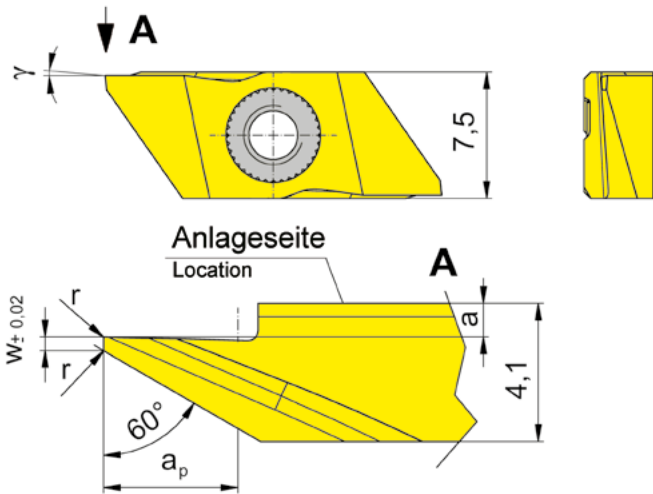
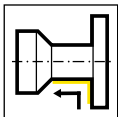
▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	HIS	IG35	TH35
RS274.0050.01.M0.E	0.5	1.5	0°	274140R	Δ	Δ
RS274.0070.02.M0.E	0.7	2	0°	274140R	Δ	Δ
RS274.0080.03.M0.E	0.8	3	0°	274140R	Δ	Δ
RS274.0100.03.M0.E	1	3	0°	274140R	Δ	Δ
RS274.0120.03.M0.E	1.2	3	0°	274140R	Δ	Δ
RS274.0150.06.M0.E	1.5	6	0°	274140R	Δ	Δ
RS274.0200.04.M0.E	2	4	0°	274140R	Δ	Δ
RS274.0200.06.M0.E	2	6	0°	274140R	Δ	Δ
LS274.0050.01.M0.E	0.5	1.5	0°	274140L	Δ	Δ
LS274.0070.02.M0.E	0.7	2	0°	274140L	Δ	Δ
LS274.0080.03.M0.E	0.8	3	0°	274140L	Δ	Δ
LS274.0100.03.M0.E	1	3	0°	274140L	Δ	Δ
LS274.0120.03.M0.E	1.2	3	0°	274140L	Δ	Δ
LS274.0150.06.M0.E	1.5	6	0°	274140L	Δ	Δ
LS274.0200.04.M0.E	2	4	0°	274140L	Δ	Δ
LS274.0200.06.M0.E	2	6	0°	274140L	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	o	-
S	o	-
H	-	-



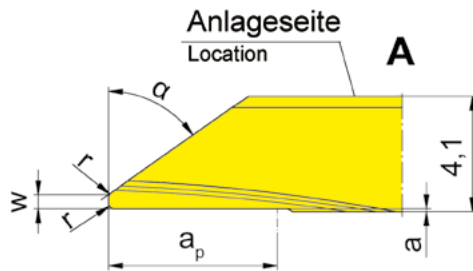
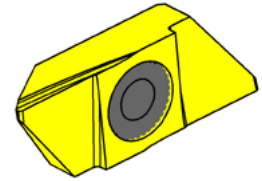
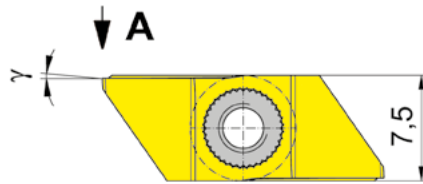
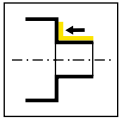
R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	a	γ	a _p	HIS		
RS274.0060.04.10.E	-	0.05	1	15°	4	274140R	IG35	TH35
RS274.0460.04.10.E	0.4	0.05	1	15°	4	274140R	Δ	Δ
RS274.0460.04.M0.E	0.4	0.05	1	0°	4	274140R	Δ	▲
RS274.0560.06.11.E	0.5	0.1	0.05	15°	6	274140R	Δ	Δ
LS274.0060.04.10.E	-	0.05	1	15°	4	274140L	Δ	Δ
LS274.0460.04.10.E	0.4	0.05	1	15°	4	274140L	Δ	Δ
LS274.0460.04.M0.E	0.4	0.05	1	0°	4	274140L	Δ	Δ
LS274.0560.06.11.E	0.5	0.1	0.05	15°	6	274140L	Δ	Δ
							P	● ●
							M	● ●
							K	● -
							N	○ -
							S	○ -
							H	- -

Dimensions in mm



Coating grades

R = right hand version shown

L = left hand version

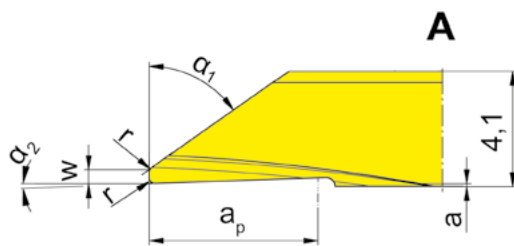
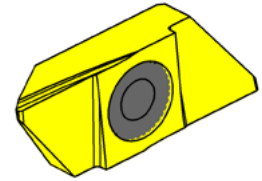
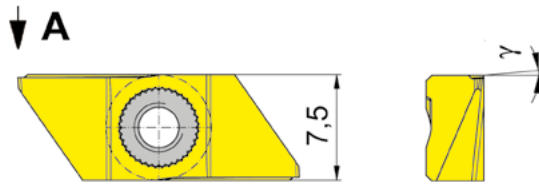
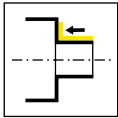
▲ In stock

Δ 2 weeks

Part number	w	r	a	γ	a _p	α	HIS		IG35	TH35
RS274.0035.04.20.E	-	0.05	0.1	5°	4	35°	274140R	▲	Δ	Δ
RS274.0235.04.20.E	0.2	-	0.1	5°	4	35°	274140R	▲	Δ	Δ
RS274.0535.06.20.E	0.5	0.2	0.1	5°	6	35°	274140R	▲	Δ	Δ
RS274.0055.04.20.E	-	0.05	0.1	5°	4	55°	274140R	▲	Δ	Δ
RS274.0255.04.20.E	0.2	-	0.1	5°	4	55°	274140R	▲	Δ	Δ
RS274.0555.06.20.E	0.5	0.2	0.1	5°	6	55°	274140R	▲	Δ	Δ
LS274.0035.04.20.E	-	0.05	0.1	5°	4	35°	274140L	▲	Δ	Δ
LS274.0235.04.20.E	0.2	-	0.1	5°	4	35°	274140L	▲	Δ	Δ
LS274.0535.06.20.E	0.5	0.2	0.1	5°	6	35°	274140L	▲	Δ	Δ
LS274.0055.04.20.E	-	0.05	0.1	5°	4	55°	274140L	▲	Δ	Δ
LS274.0255.04.20.E	0.2	-	0.1	5°	4	55°	274140L	▲	Δ	Δ
LS274.0555.06.20.E	0.5	0.2	0.1	5°	6	55°	274140L	▲	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



Coating grades

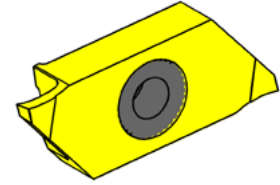
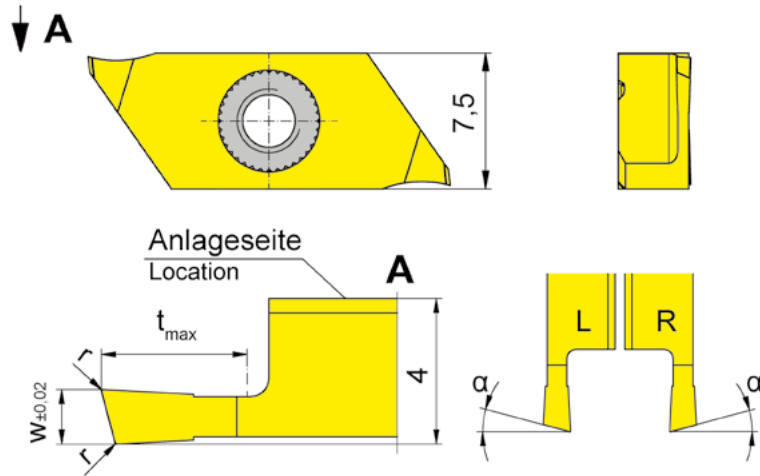
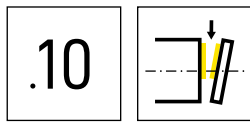
▲ In stock

Δ 2 weeks

Part number	w	r	α_1	a	γ	a_p	α_2	HIS	IG35	TH35
RS274.0035.24.20.E	-	0.05	35°	0.1	5°	4	2°	274040R	Δ	Δ
RS274.0055.24.20.E	-	0.05	55°	0.1	5°	4	2°	274040R	Δ	Δ
RS274.0235.24.20.E	0.2	-	35°	0.1	5°	4	2°	274040R	Δ	Δ
RS274.0255.24.20.E	0.2	-	55°	0.1	5°	4	2°	274040R	Δ	Δ
RS274.0535.26.20.E	0.5	0.2	35°	0.1	5°	6	2°	274040R	Δ	Δ
RS274.0555.26.20.E	0.5	0.2	55°	0.1	5°	6	2°	274040R	Δ	Δ
LS274.0035.24.20.E	-	0.05	35°	0.1	5°	4	2°	274040L	Δ	Δ
LS274.0055.24.20.E	-	0.05	55°	0.1	5°	4	2°	274040L	Δ	Δ
LS274.0235.24.20.E	0.2	-	35°	0.1	5°	4	2°	274040L	Δ	Δ
LS274.0255.24.20.E	0.2	-	55°	0.1	5°	4	2°	274040L	Δ	Δ
LS274.0535.26.20.E	0.5	0.2	35°	0.1	5°	6	2°	274040L	Δ	Δ
LS274.0555.26.20.E	0.5	0.2	55°	0.1	5°	6	2°	274040L	Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

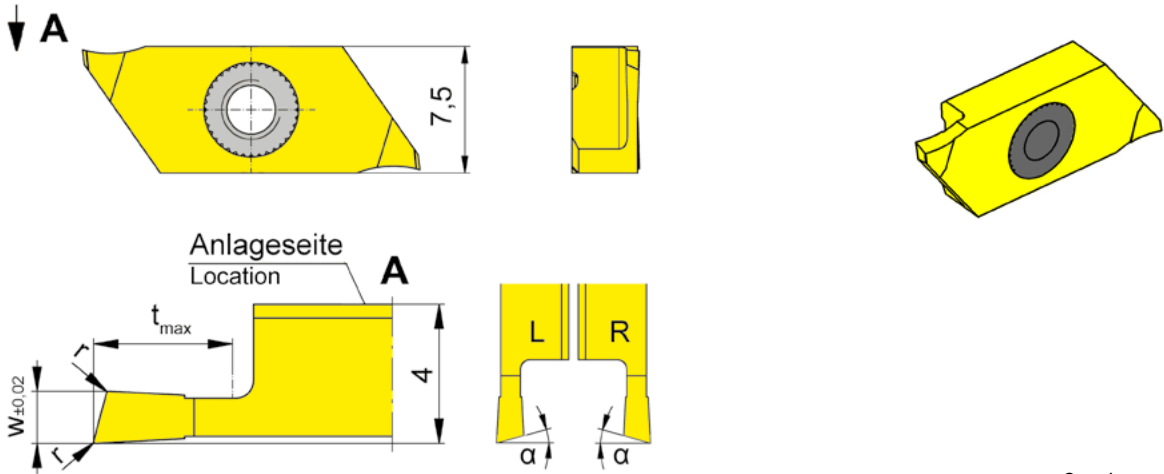
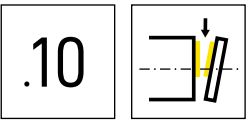
▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	α	HIS		IG35	TH35
RS274.1508.03.10.E	0.8	0.05	3	15°	274140R		Δ	Δ
RS274.1510.03.10.E	1	0.05	3	15°	274140R		Δ	Δ
RS274.1515.04.10.E	1.5	0.05	4	15°	274140R		Δ	Δ
RS274.1520.06.10.E	2	0.05	6	15°	274140R		Δ	Δ
LS274.1508.03.10.E	0.8	0.05	3	15°	274140L		Δ	Δ
LS274.1510.03.10.E	1	0.05	3	15°	274140L		Δ	Δ
LS274.1515.04.10.E	1.5	0.05	4	15°	274140L		Δ	Δ
LS274.1520.06.10.E	2	0.05	6	15°	274140L		Δ	Δ
						P	●	●
						M	●	●
						K	●	-
						N	○	-
						S	○	-
						H	-	-

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm



R = right hand version shown

L = left hand version

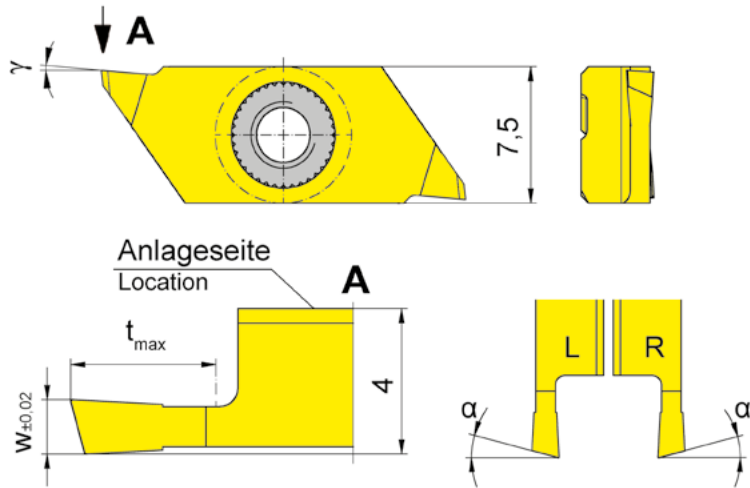
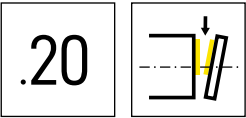
Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	α	HIS	IG35	TH35
RS274.1508.03.1L.E	0.8	0.05	3	15°	274140R	Δ	Δ
RS274.1510.03.1L.E	1	0.05	3	15°	274140R	Δ	Δ
RS274.1515.04.1L.E	1.5	0.05	4	15°	274140R	Δ	Δ
RS274.1520.06.1L.E	2	0.05	6	15°	274140R	Δ	Δ
LS274.1508.03.1R.E	0.8	0.05	3	15°	274140L	Δ	Δ
LS274.1510.03.1R.E	1	0.05	3	15°	274140L	Δ	Δ
LS274.1520.06.1R.E	2	0.05	6	15°	274140L	Δ	Δ

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



R = right hand version shown

L = left hand version

Coating grades

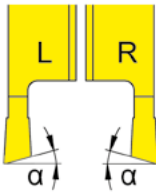
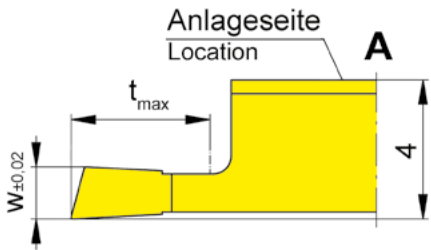
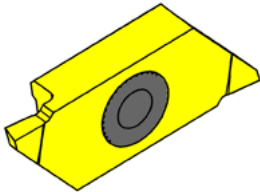
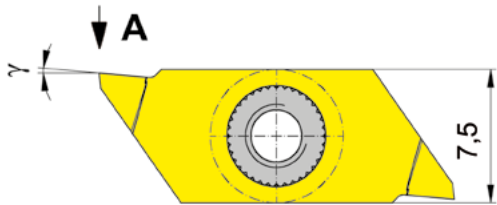
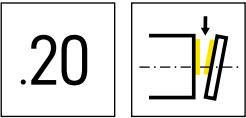
▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS		IG35	TH35
RS274.1515.04.20.E	1.5	4	15°	5°	274140R		Δ	Δ
LS274.1515.04.20.E	1.5	4	15°	5°	274140L		Δ	Δ
							P	●
							M	●
							K	●
							N	○
							S	○
							H	-

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm



R = right hand version shown

L = left hand version

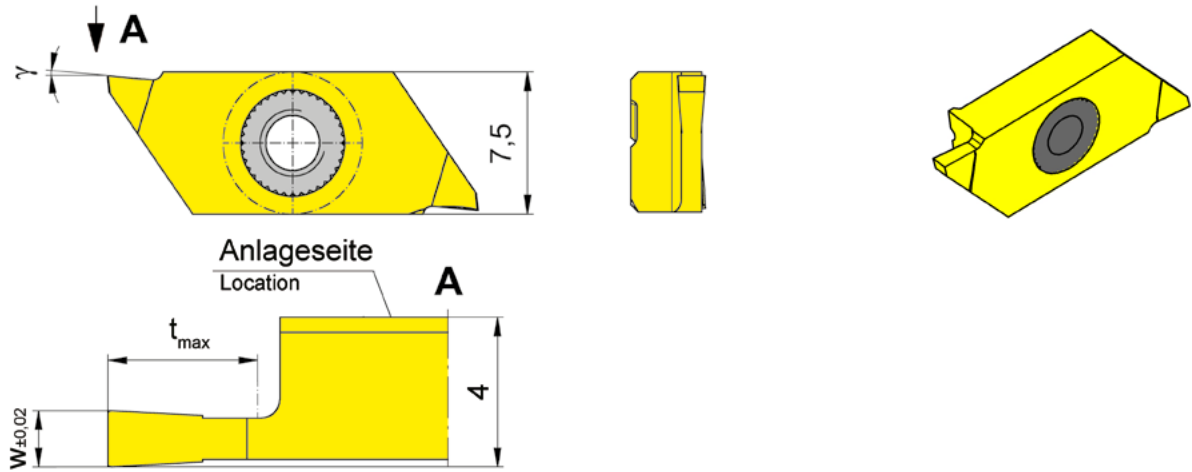
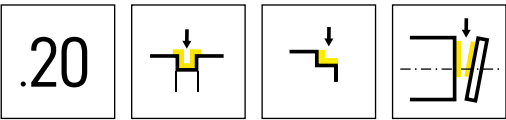
Coating grades
▲ In stock Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS	IG35	TH35
RS274.1515.04.2L.E	1.5	4	15°	5°	274140R	Δ	Δ
RS274.1520.06.2L.E	2	6	15°	5°	274140R	Δ	Δ
LS274.1515.04.2R.E	1.5	4	15°	5°	274140L	Δ	Δ
LS274.1520.06.2R.E	2	6	15°	5°	274140L	Δ	Δ

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-

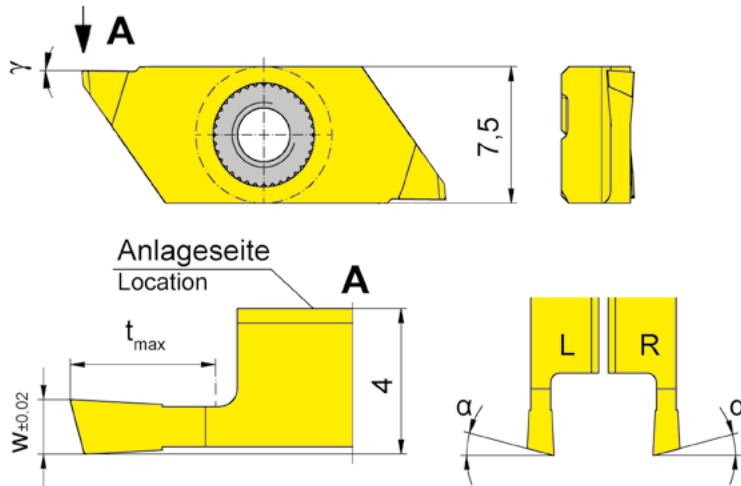
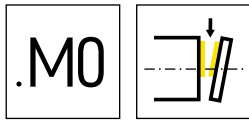


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	t _{max}	γ	HIS		IG35	TH35
RS274.0150.04.20.E	1.5	4	5°	274140R		Δ	Δ
LS274.0150.04.20.E	1.5	4	5°	274140L		Δ	Δ
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.					P	●	●
Dimensions in mm					M	●	●
					K	●	-
					N	○	-
					S	○	-
					H	-	-



Coating grades

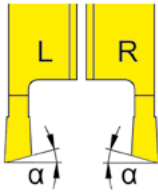
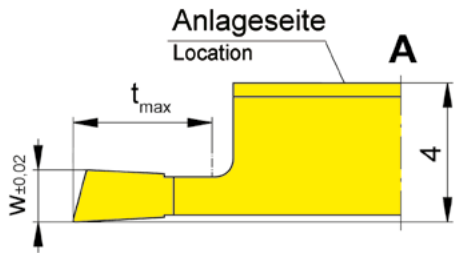
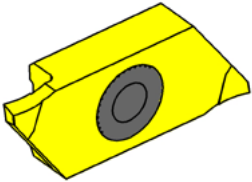
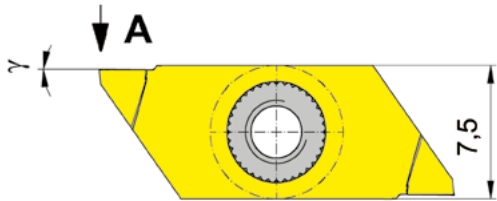
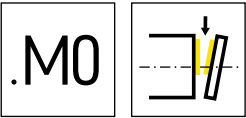
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS		IG35	TH35
RS274.1508.03.M0.E	0.8	3	15°	0°	274140R		Δ	Δ
RS274.1510.03.M0.E	1	3	15°	0°	274140R		Δ	Δ
RS274.1515.04.M0.E	1.5	4	15°	0°	274140R		Δ	Δ
RS274.1520.06.M0.E	2	6	15°	0°	274140R		Δ	Δ
LS274.1508.03.M0.E	0.8	3	15°	0°	274140L		Δ	Δ
LS274.1510.03.M0.E	1	3	15°	0°	274140L		Δ	Δ
LS274.1515.04.M0.E	1.5	4	15°	0°	274140L		Δ	Δ
LS274.1520.06.M0.E	2	6	15°	0°	274140L		Δ	Δ
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.							P	●
Dimensions in mm							M	●
							K	●
							N	○
							S	○
							H	-



R = right hand version shown

L = left hand version

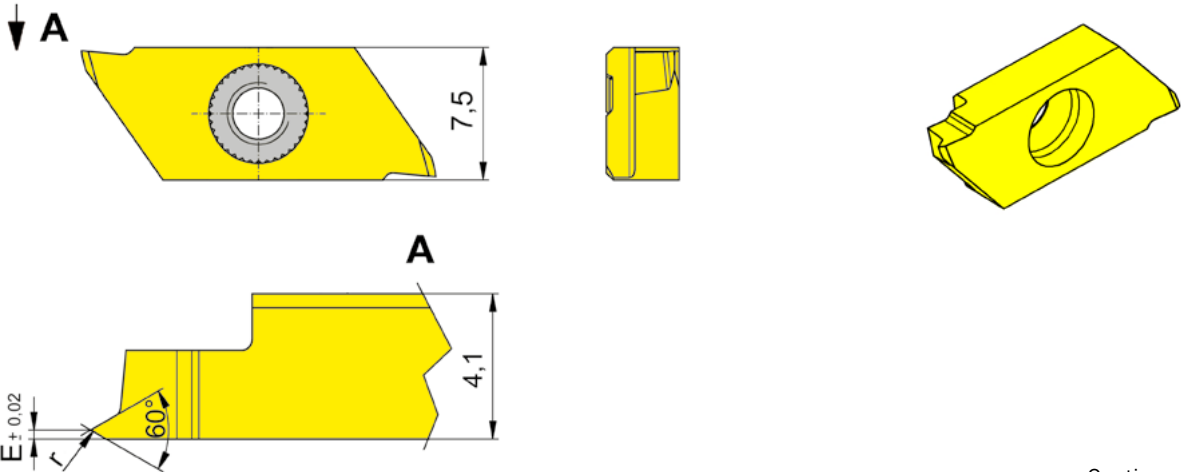
Coating grades
▲ In stock Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS	IG35	TH35
RS274.1508.03.ML.E	0.8	3	15°	0°	274140R	Δ	Δ
RS274.1510.03.ML.E	1	3	15°	0°	274140R	Δ	Δ
RS274.1515.04.ML.E	1.5	4	15°	0°	274140R	Δ	Δ
RS274.1520.06.ML.E	2	6	15°	0°	274140R	Δ	Δ
LS274.1510.03.MR.E	1	3	15°	0°	274140L	Δ	Δ
LS274.1515.04.MR.E	1.5	4	15°	0°	274140L	Δ	Δ
LS274.1520.06.MR.E	2	6	15°	0°	274140L	Δ	Δ

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



R = right hand version shown

L = left hand version

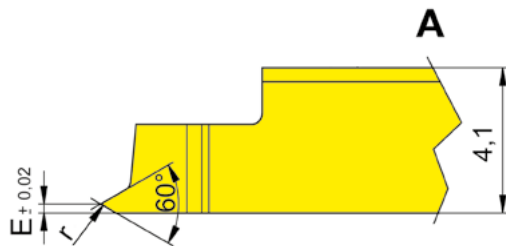
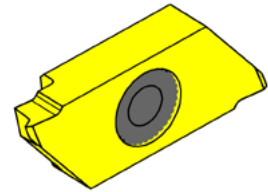
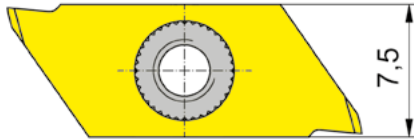
Coating grades
▲ In stock Δ 2 weeks

Part number	TPI	E	r	HIS	IG35	
RSU274.1220.01.E	12-20	.051	.007	274140R	▲	
RSU274.1832.01.E	18-32	.039	.005	274140R	▲	
RSU274.2864.01.E	28-64	.028	.002	274140R	▲	
Dimensions in inch					P	●
					M	●
					K	●
					N	○
					S	○
					H	-





↓ A



Coating grades

R = right hand version shown

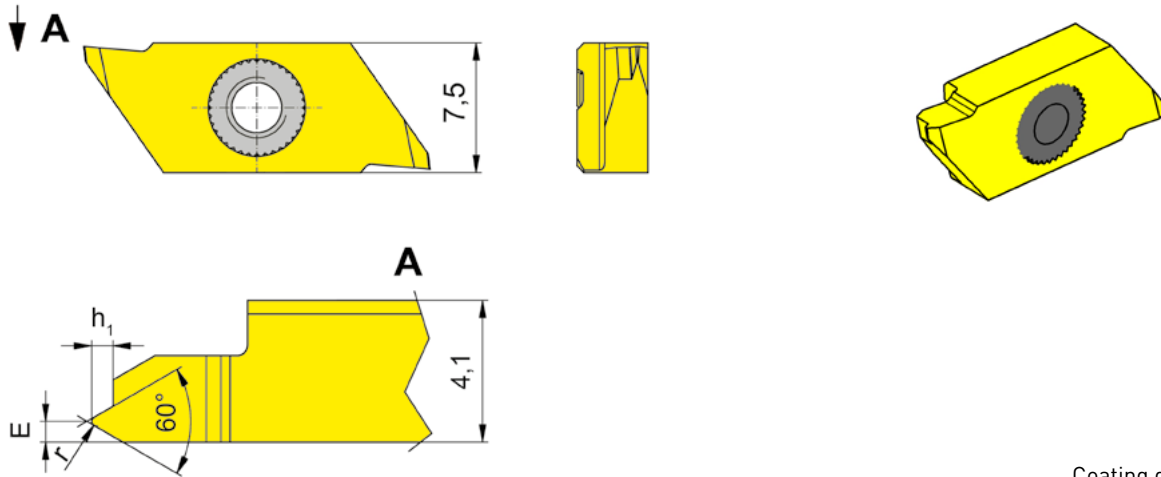
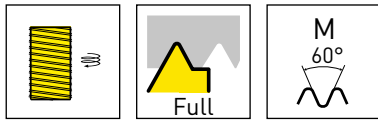
▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	HIS		IG35	TH35
RS274.0102.01.E	0.25	137-102	0.2	0.04	274140R		Δ	Δ
RS274.0203.01.E	0.35	102-74	0.25	0.05	274140R		Δ	Δ
RS274.0204.01.E	0.4	84-64	0.3	0.06	274140R		Δ	Δ

Dimensions in mm

P	●	●
M	●	●
K	●	-
N	○	-
S	○	-
H	-	-



Coating grades

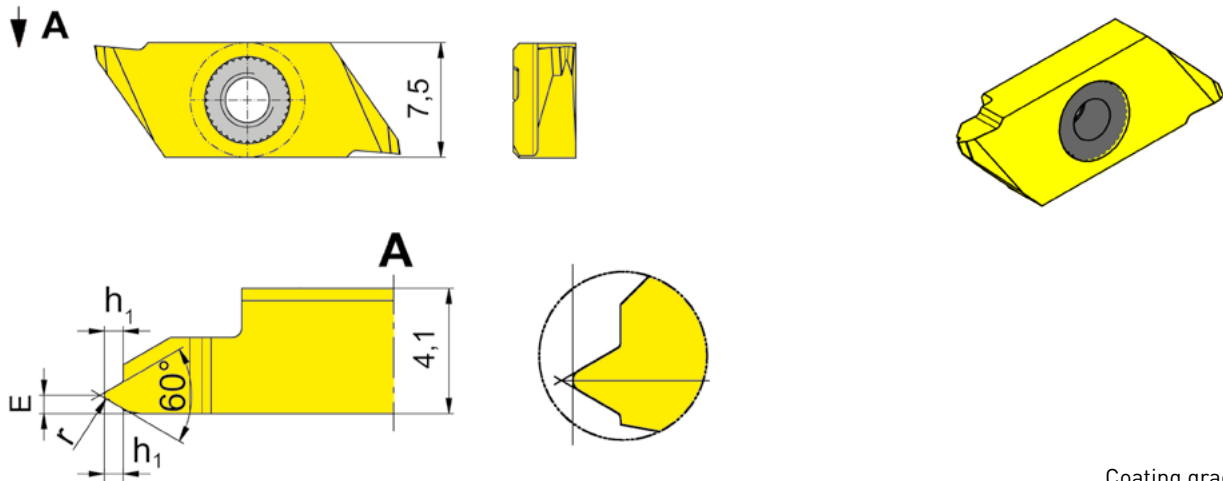
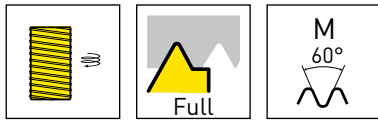
R = right hand version shown

L = left hand version

▲ In stock

△ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS	IG35	TH35
RS274.0305.02.E	0.5	50	0.4	0.07	0.31	274140R	△	△
RS274.0306.02.E	0.6	42	0.45	0.09	0.37	274140R	△	△
RS274.0307.02.E	0.7	36	0.5	0.1	0.43	274140R	△	△
RS274.0407.02.E	0.75	33	0.5	0.11	0.46	274140R	△	△
RS274.0408.02.E	0.8	31	0.55	0.12	0.49	274140R	△	△
RS274.0610.02.E	1	25	0.6	0.14	0.61	274140R	△	△
RS274.0712.02.E	1.25	20	0.7	0.15	0.77	274140R	△	△
RS274.0915.02.E	1.5	16	0.8	0.2	0.92	274140R	△	△
LS274.0305.02.E	0.5	50	0.4	0.07	0.31	274140L	△	△
LS274.0306.02.E	0.6	42	0.45	0.09	0.37	274140L	△	△
LS274.0307.02.E	0.7	36	0.5	0.1	0.43	274140L	△	△
LS274.0407.02.E	0.75	33	0.5	0.11	0.46	274140L	△	△
LS274.0408.02.E	0.8	31	0.55	0.12	0.49	274140L	△	△
LS274.0610.02.E	1	25	0.6	0.14	0.61	274140L	△	△
LS274.0712.02.E	1.25	20	0.7	0.15	0.77	274140L	△	△
LS274.0915.02.E	1.5	16	0.8	0.2	0.92	274140L	△	△
Dimensions in mm							P	•
							M	•
							K	•
							N	o
							S	o
							H	-



Coating grades

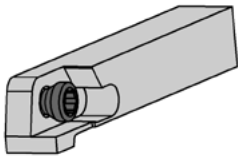
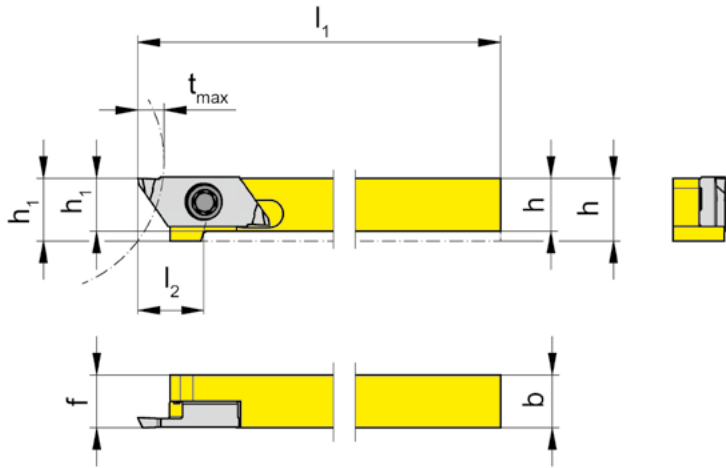
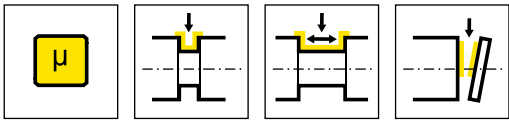
R = right hand version shown

L = left hand version

▲ In stock

△ 2 weeks

Part number	P	TPI	E	r	h ₁	HIS		
							IG35	TH35
RS274.0305.03.E	0.5	50	0.4	0.07	0.31	274140R	△	△
RS274.0306.03.E	0.6	42	0.45	0.09	0.37	274140R	△	△
RS274.0307.03.E	0.7	36	0.5	0.1	0.43	274140R	△	△
RS274.0407.03.E	0.75	33	0.5	0.11	0.46	274140R	△	△
RS274.0408.03.E	0.8	31	0.55	0.12	0.49	274140R	△	△
RS274.0610.03.E	1	25	0.6	0.14	0.61	274140R	△	△
RS274.0712.03.E	1.25	20	0.7	0.15	0.77	274140R	△	△
RS274.0915.03.E	1.5	16	0.8	0.2	0.92	274140R	△	△
LS274.0305.03.E	0.5	50	0.4	0.07	0.31	274140L	△	△
LS274.0306.03.E	0.6	42	0.45	0.09	0.37	274140L	△	△
LS274.0307.03.E	0.7	36	0.5	0.1	0.43	274140L	△	△
LS274.0407.03.E	0.75	33	0.5	0.11	0.46	274140L	△	△
LS274.0408.03.E	0.8	31	0.55	0.12	0.49	274140L	△	△
LS274.0610.03.E	1	25	0.6	0.14	0.61	274140L	△	△
LS274.0712.03.E	1.25	20	0.7	0.15	0.77	274140L	△	△
LS274.0915.03.E	1.5	16	0.8	0.2	0.92	274140L	△	△
Machining of both flanks							P	● ●
Dimensions in mm							M	● ●
							K	● -
							N	o -
							S	o -
							H	- -



R = right hand version shown L = left hand version

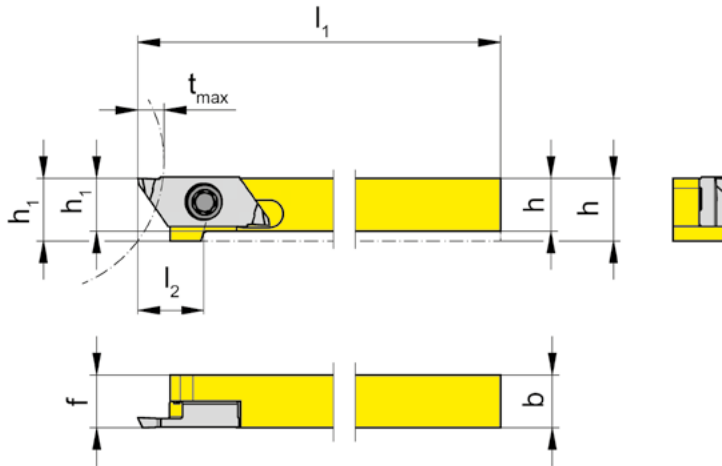
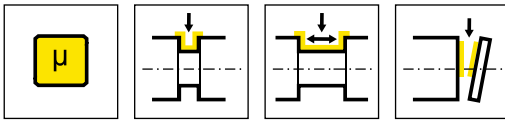
Part number	h	b	l ₁	l ₂	h ₁	f	t _{max}	HWS
RH274.0808.SF.04	8	8	100	10	9.5	8	6	274040R
RH274.1010.SF.04	10	10	100	-	10	10	6	274040R
RH274.1212.SF.04	12	12	100	-	12	12	6	274040R

Holder .0808 has an l2 offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH274...	030.350P.0852	T15PQ	3 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f	t_{max}	HWS
RH274.0808.SF.S4	8	8	100	10	9.5	8	6	274040R
RH274.1010.SF.S4	10	10	100	-	10	10	6	274040R
RH274.1212.SF.S4	12	12	100	-	12	12	6	274040R

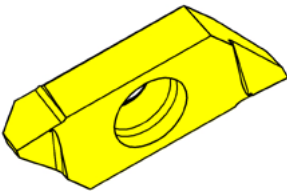
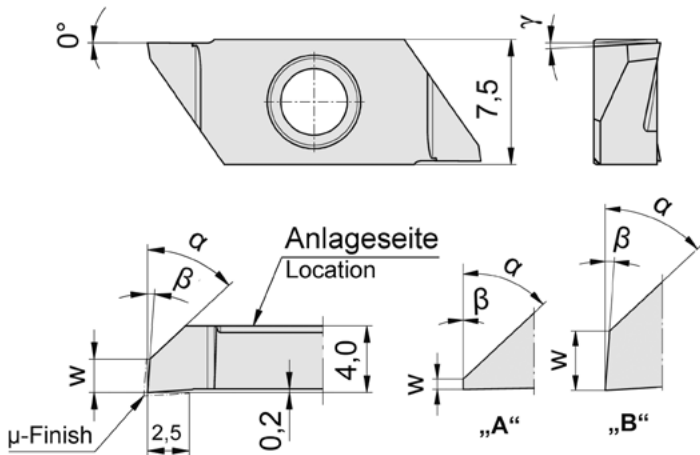
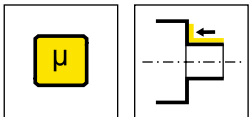
Shank material: Tungsten alloy for excellent vibration resistance.

Holder .0808 has an l_2 offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
RH274...	030.350P.0852	T15PQ	3 Nm



R = right hand version shown

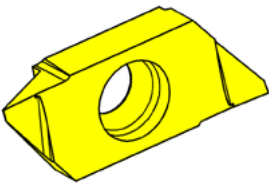
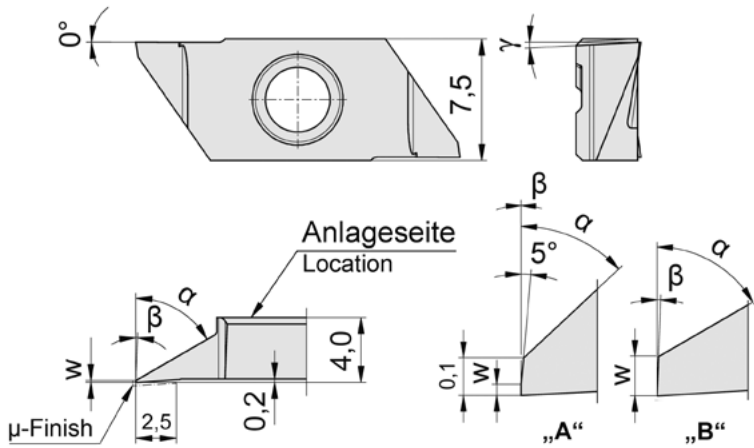
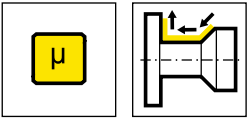
L = left hand version

▲ In stock

Δ 2 weeks

Coating grades

Part number	w	γ	α	Form	B	HIS		
							ES15	ES1P
RS274.0547.04.SF	0.05	0°	47°	A	0°	274040R	▲	▲
RS274.2047.03.SF	2	3°	47°	B	4°	274040R	▲	▲
LS274.2047.03.SF	2	3°	47°	B	4°	274040L	▲	▲
Dimensions in mm							P	•
							M	•
							K	•
							N	•
							S	•
							H	•



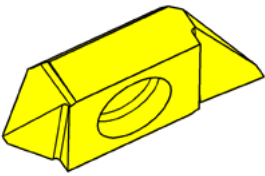
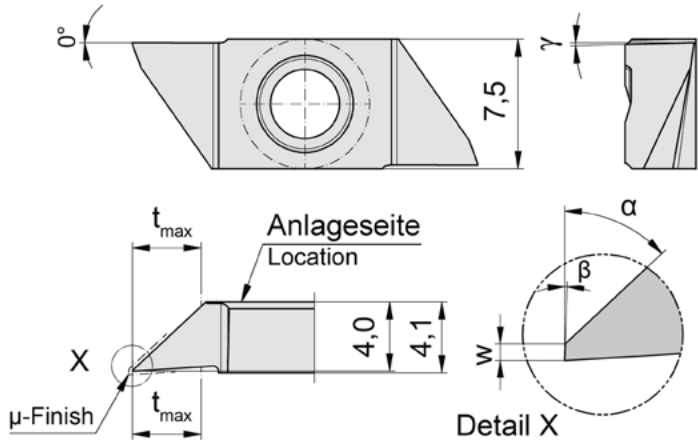
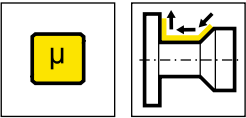
Coating grades

R = right hand version shown

▲ In stock

Δ 2 weeks

Part number	w	γ	α	Form	β	HIS		
							ES15	ES1P
RS274.0147.04.SF	0.03	0°	47°	A	0°	274040R	▲	▲
RS274.0160.03.SF	0.105	3°	60°	B	2°	274040R	▲	▲
LS274.0160.03.SF	0.105	3°	60°	B	2°	274040L	▲	▲
Dimensions in mm							P	•
							M	•
							K	•
							N	•
							S	•
							H	•



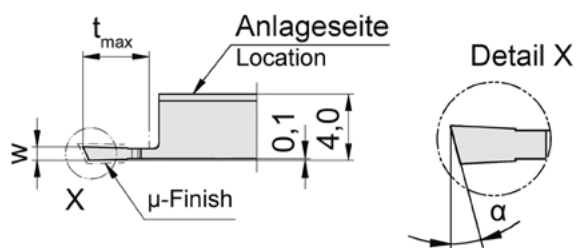
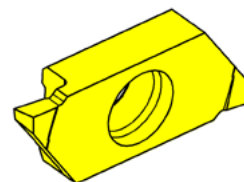
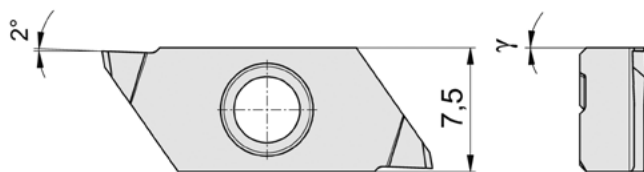
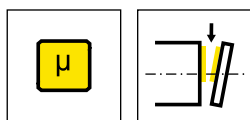
R = right hand version shown

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	α	β	HIS		ES15	ES1P
RS274.0247.04.SF	0.025	4	1.5°	47°	2°	274040R		▲	▲
Dimensions in mm								P	●
								M	●
								K	●
								N	●
								S	●
								H	●



Coating grades

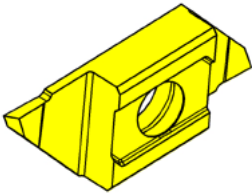
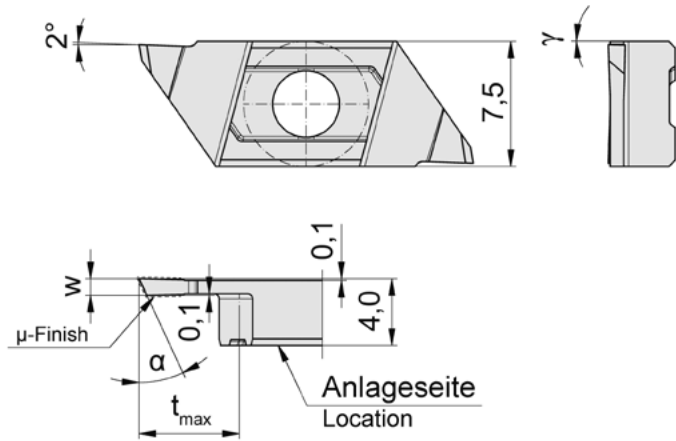
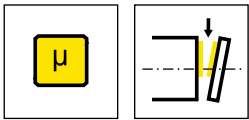
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS		AC2P	ES15	ES1P
RS274.2508.04.SF	0.8	4	25°	0°	274040R			▲	▲
RS274.2509.04.SF	0.9	4	25°	0°	274040R		Δ	▲	▲
RS274.2510.04.SF	1	4	25°	0°	274040R			▲	▲
RS274.2510.06.SF	1	6	25°	0°	274040R			▲	▲
RS274.2512.06.SF	1.2	6	25°	0°	274040R		Δ	▲	▲
RS274.2515.06.SF	1.5	6	25°	0°	274040R			▲	▲
LS274.2508.04.SF	0.8	4	25°	0°	274040L			▲	▲
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.							P	●	●
Dimensions in mm							M	○	●
							K	-	○
							N	-	-
							S	-	-
							H	-	-



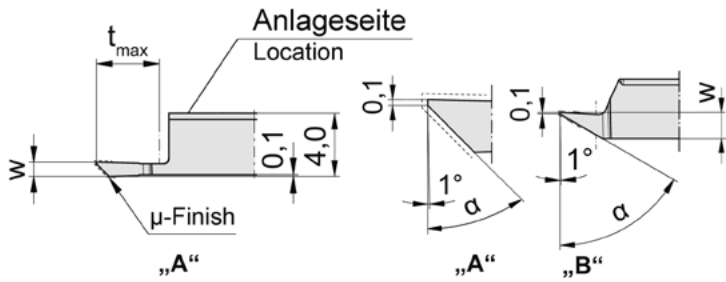
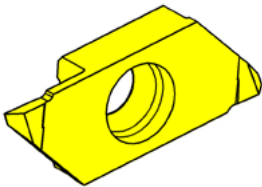
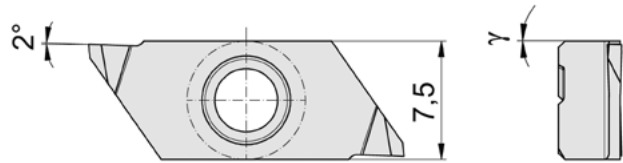
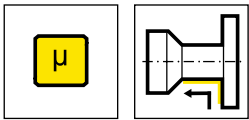
L = left hand version shown

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	γ	HIS			
						AC2P	ES15	ES1P
LS274.2508.04.SF.R	0.8	4	25°	0°	274040L	Δ	▲	▲
LS274.2509.04.SF.R	0.9	4	25°	0°	274040L		▲	▲
LS274.2510.06.SF.R	1	6	25°	0°	274040L		▲	▲
LS274.2512.06.SF.R	1.2	6	25°	0°	274040L		▲	▲
LS274.2515.06.SF.R	1.5	6	25°	0°	274040L		▲	▲
A (t _{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.						P	●	●
Dimensions in mm						M	○	●
						K	-	○
						N	-	-
						S	-	-
						H	-	-



R = right hand version shown

L = left hand version

Coating grades

▲ In stock

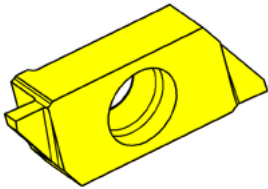
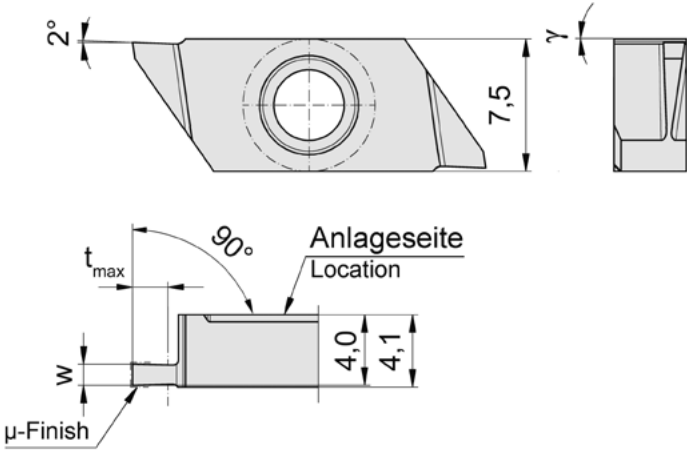
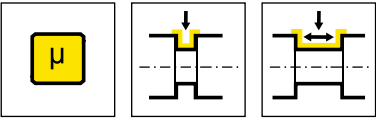
Δ 2 weeks

Part number	w	t _{max}	α	γ	Form	HIS	ES 15	ES 1P
RS274.4508.04.SF	0.8	4	45°	0°	A	274040R	▲	▲
RS274.4509.04.SF	0.9	4	45°	0°	A	274040R	▲	▲
RS274.4510.06.SF	1	6	45°	0°	A	274040R	▲	▲
RS274.4512.06.SF	1.2	6	45°	0°	A	274040R	▲	▲
RS274.6015.02.SF	1.8	2.5	60°	0°	B	274040R	▲	▲
RS274.7010.02.SF	1.2	2.5	70°	0°	B	274040R	▲	▲
LS274.4509.04.SF	0.9	4	45°	0°	A	274040L	▲	▲

A (t_{max}) of 6mm can be reached only with workpiece Ø ≤ 25 mm.

Dimensions in mm

P	●	●
M	●	●
K	○	○
N	-	-
S	-	-
H	-	-



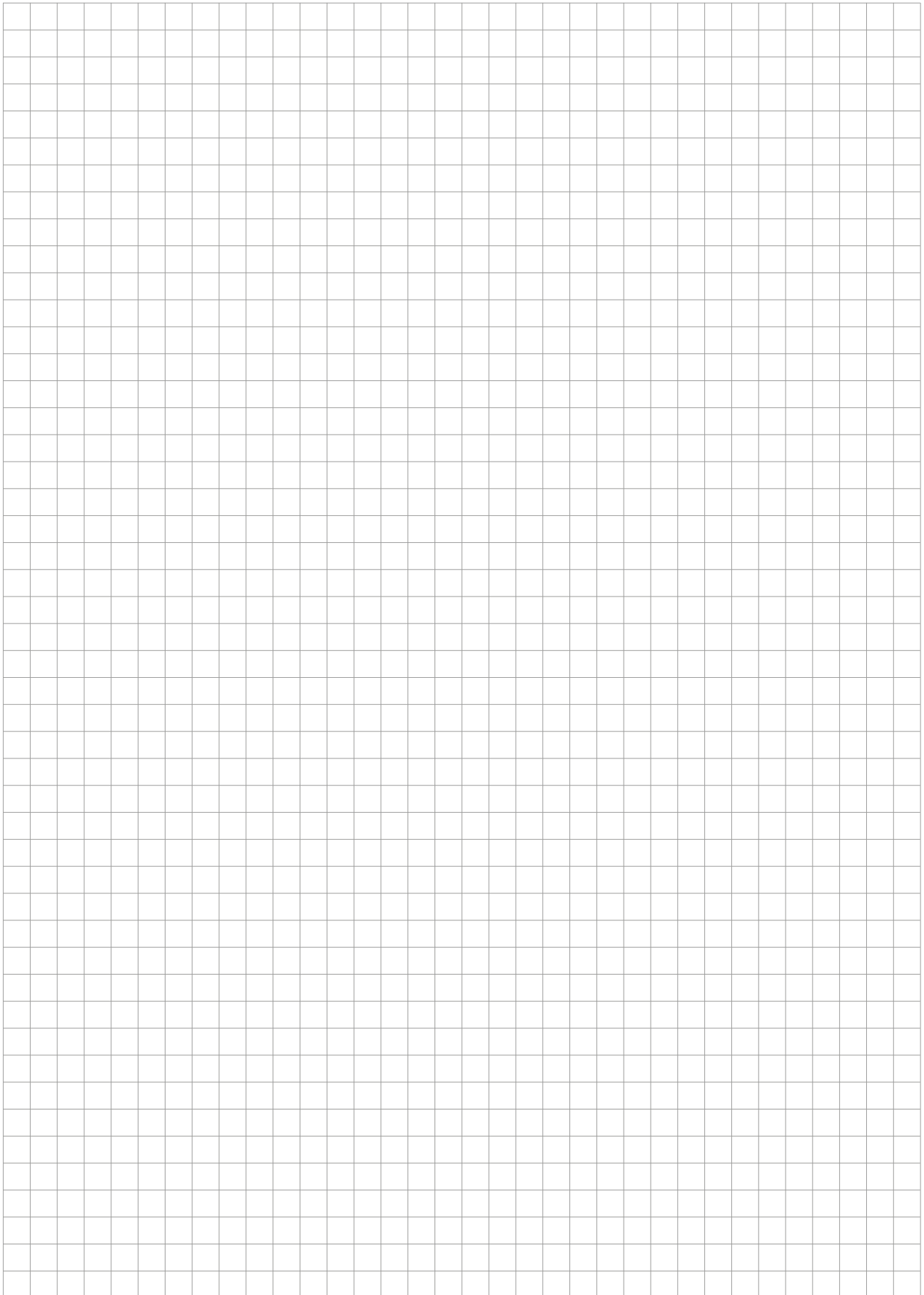
R = right hand version shown

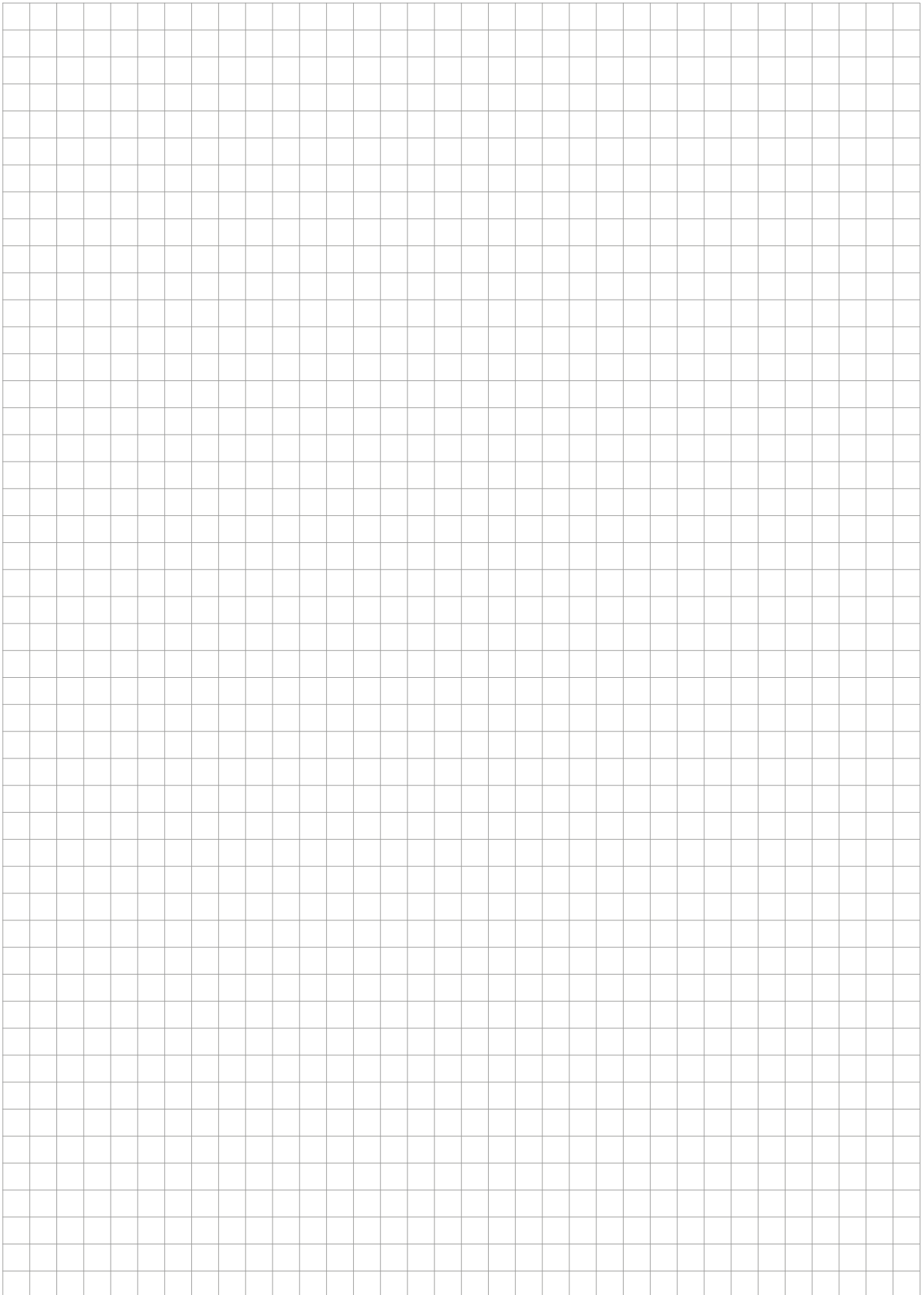
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	γ	HIS		ES15	ES1P
RS274.0005.01.SF	0.5	1	0°	274040R		▲	▲
RS274.0010.02.SF	1	2	0°	274040R		▲	▲
RS274.0012.02.SF	1.2	2	0°	274040R		▲	▲
RS274.0015.03.SF	1.5	3	0°	274040R		▲	▲
RS274.0020.03.SF	2	3	0°	274040R		▲	▲
Dimensions in mm					P	●	●
					M	●	●
					K	○	○
					N	-	-
					S	-	-
					H	-	-







SYSTEM 32T

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF AND THREADING

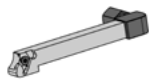
.019"-.098", 0.5-2.5mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

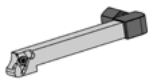
HOLDERS

Square Shanks



Page 458

Grooving, Turning, Part Off
Inch Shank



Page 459

Grooving, Turning, Part Off
Metric Shank

INSERTS

Grooving, Side Turning, Parting Off



Page 460

.10 Geometry
Grooving, Parting Off



Page 461

.10 Geometry
Parting Off



Page 462

Full Radius
Grooving



Page 463

Grooving
DIN Circlip



Page 464

.P Geometry
Grooving, Turning

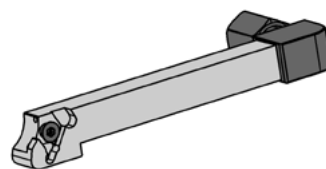
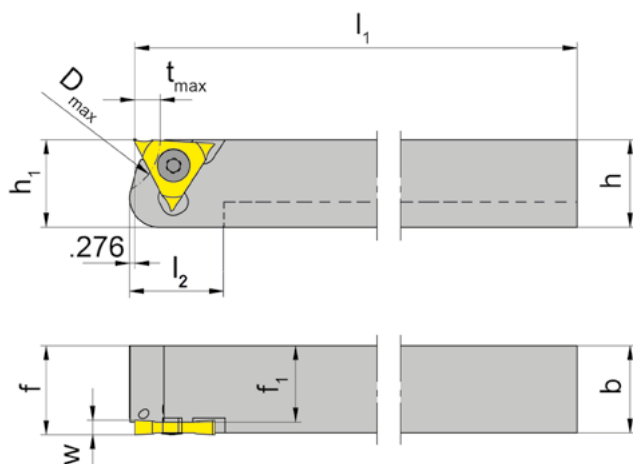
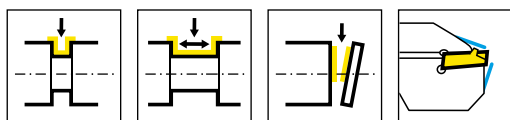
Threading



Page 465

Full Profile
60° Threading

Cutting Data and Technical Instructions - Chapter V / Page 706



R = right hand version shown

L = left hand version

Part number	h	b	l_1	h_1	f_1	f	D_{max}	t_{max}	HWS
RHU32T.0375.6.10.IK	.375	.375	3.996	.375	.385	f_1+s_1	.610	.138	32T01N • 32T01R
RHU32T.0500.6.10.IK	.500	.500	3.996	.500	.510	f_1+s_1	.610	.138	32T01N • 32T01R
RHU32T.0625.6.10.IK	.625	.625	5.118	.625	.635	f_1+s_1	.610	.138	32T01N • 32T01R
RHU32T.0375.6.20.IK	.375	.375	3.996	.375	.385	f_1+s_1	.610	.138	32T02N • 32T02R
RHU32T.0500.6.20.IK	.500	.500	3.996	.500	.510	f_1+s_1	.610	.138	32T02N • 32T02R
RHU32T.0625.6.20.IK	.625	.625	5.118	.625	.635	f_1+s_1	.610	.138	32T02N • 32T02R
LHU32T.0375.6.10.IK	.375	.375	3.996	.375	.385	f_1+s_1	.610	.138	32T01N • 32T01L
LHU32T.0500.6.10.IK	.500	.500	3.996	.500	.510	f_1+s_1	.610	.138	32T01N • 32T01L
LHU32T.0625.6.10.IK	.625	.625	5.118	.625	.635	f_1+s_1	.610	.138	32T01N • 32T01L
LHU32T.0375.6.20.IK	.375	.375	3.996	.375	.385	f_1+s_1	.610	.138	32T02N • 32T02L
LHU32T.0500.6.20.IK	.500	.500	3.996	.500	.510	f_1+s_1	.610	.138	32T02N • 32T02L
LHU32T.0625.6.20.IK	.625	.625	5.118	.625	.635	f_1+s_1	.610	.138	32T02N • 32T02L

Holder .0375 has an l2 offset at the head

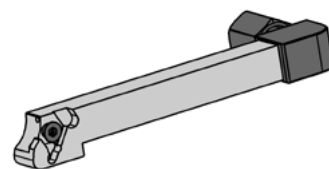
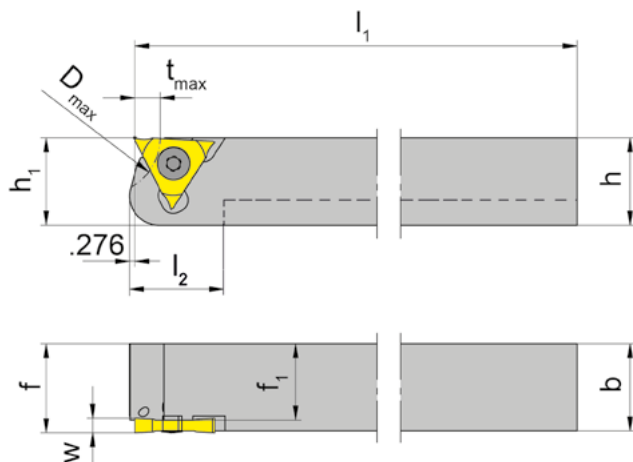
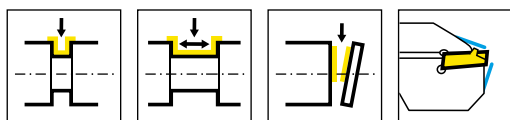
w, s1 see indexable inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU32T...	004.00.22	030.2507.T7P	T7PL	18.908	1.5 Nm
R/LHU32T.0625.6...	004.00.16	030.2507.T7P	T7PL	18.908	1.5 Nm



R = right hand version shown

L = left hand version

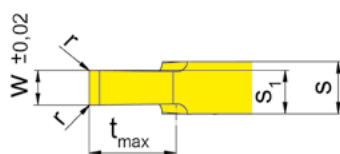
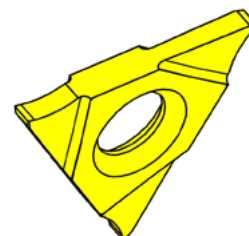
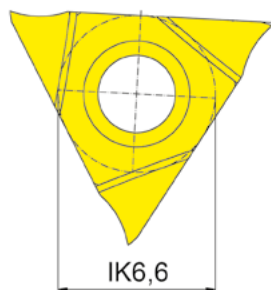
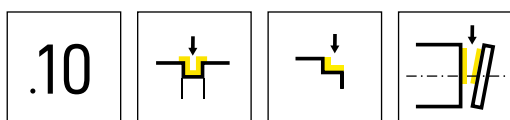
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	D _{max}	t _{max}	HWS
RH32T.0808.6.10.IK	8	8	100	13	8	6.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01R
RH32T.1010.6.10.IK	10	10	100	-	10	8.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01R
RH32T.1212.6.10.IK	12	12	100	-	12	10.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01R
RH32T.1616.6.10.IK	16	16	125	-	16	14.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01R
RH32T.0808.6.20.IK	8	8	100	13	8	6	f ₁ +s ₁	15.5	3.5	32T02N • 32T02R
RH32T.1010.6.20.IK	10	10	100	-	10	8	f ₁ +s ₁	15.5	3.5	32T02N • 32T02R
RH32T.1212.6.20.IK	12	12	100	-	12	10	f ₁ +s ₁	15.5	3.5	32T02N • 32T02R
RH32T.1616.6.20.IK	16	16	125	-	16	14	f ₁ +s ₁	15.5	3.5	32T02N • 32T02R
LH32T.0808.6.10.IK	8	8	100	13	8	6.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01L
LH32T.1010.6.10.IK	10	10	100	-	10	8.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01L
LH32T.1212.6.10.IK	12	12	100	-	12	10.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01L
LH32T.1616.6.10.IK	16	16	125	-	16	14.5	f ₁ +s ₁	15.5	3.5	32T01N • 32T01L
LH32T.0808.6.20.IK	8	8	100	13	8	6	f ₁ +s ₁	15.5	3.5	32T02N • 32T02L
LH32T.1010.6.20.IK	10	10	100	-	10	8	f ₁ +s ₁	15.5	3.5	32T02N • 32T02L
LH32T.1212.6.20.IK	12	12	100	-	12	10	f ₁ +s ₁	15.5	3.5	32T02N • 32T02L
LH32T.1616.6.20.IK	16	16	125	-	16	14	f ₁ +s ₁	15.5	3.5	32T02N • 32T02L

w, s₁ see indexable insertsHolder .0808 has an l₂ offset at the head

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Coolant supply	Screw Plug	Torque Value
R/LH32T.0808...	030.2507.T7P	T7PL	004.00.37	18.908	1.5 Nm
R/LH32T.1212...	030.2507.T7P	T7PL	004.00.22	18.908	1.5 Nm
R/LH32T.1616...	030.2507.T7P	T7PL	004.00.16	18.908	1.5 Nm

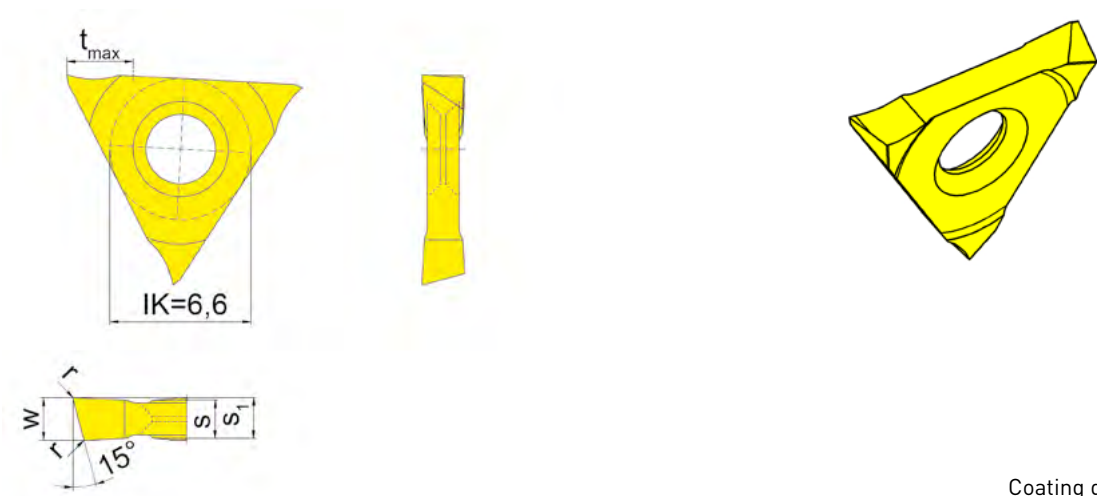
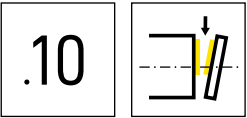


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	s	s ₁	t _{max}	HIS		EG35	EG55
S32T.0050.00	0.5	0.05	1.5	1	1.5	32T01N	▲		
S32T.0070.00	0.7	0.05	1.5	1.1	2	32T01N	▲		
S32T.0080.00	0.8	0.05	1.5	1.15	2.5	32T01N	▲		
S32T.0100.00	1	0.05	1.5	1.25	2.5	32T01N			▲
S32T.0120.00	1.2	0.05	1.5	1.35	2.5	32T01N			▲
S32T.0150.00	1.5	0.05	1.5	1.5	2.5	32T01N			▲
S32T.0200.00	2	0.05	1.5	1.75	3.5	32T01N			▲
S32T.0250.00	2.5	0.05	2	2.25	3.5	32T02N			▲
Dimensions in mm							P	●	●
							M	●	●
							K	o	o
							N	-	-
							S	-	-
							H	-	-



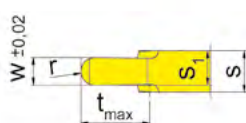
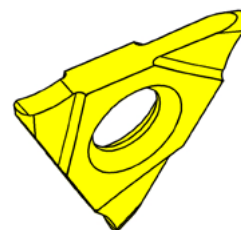
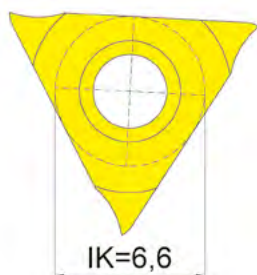
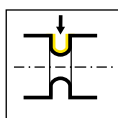
R = right hand version shown

L = left hand version

Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	s	s ₁	t _{max}	HIS	EG55	
RS32T.1520.10	2	0.05	1.5	1.75	3.5	32T01N	▲	
LS32T.1520.10	2	0.05	1.5	1.75	3.5	32T01N	▲	
Dimensions in mm							P	●
							M	●
							K	○
							N	-
							S	-
							H	-



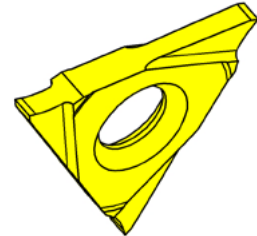
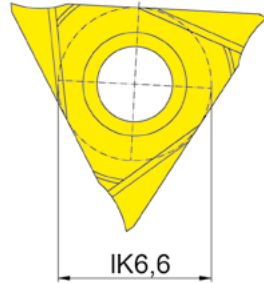
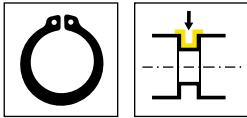
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	s	s ₁	t _{max}	HIS		EG35	EG55
S32T.0050.25	0.5	0.25	1.5	1	1.5	32T01N		▲	
S32T.0100.50	1	0.5	1.5	1.25	2.5	32T01N			▲
S32T.0200.10	2	1	1.5	1.75	3.5	32T01N			▲
							P	●	●
							M	●	●
							K	○	○
							N	-	-
							S	-	-
							H	-	-

Dimensions in mm



Coating grades

▲ In stock

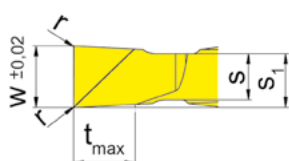
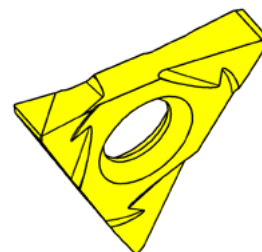
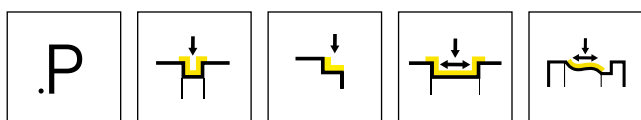
Δ 2 weeks

Part number	w	Nw	s	s ₁	t _{max}	HIS	EG35	EG55
S32T.0034.01.00	0.41	0.34	1.5	0.94	0.6	32T01N	Δ	
S32T.0044.01.00	0.51	0.44	1.5	0.99	0.7	32T01N	Δ	
S32T.0050.01.00	0.57	0.5	1.5	1.02	0.7	32T01N	▲	
S32T.0060.01.00	0.67	0.6	1.5	1.07	0.8	32T01N	▲	
S32T.0070.01.00	0.77	0.7	1.5	1.12	1.1	32T01N	▲	
S32T.0080.01.00	0.87	0.8	1.5	1.17	1.2	32T01N	▲	
S32T.0090.01.00	0.97	0.9	1.5	1.22	1.4	32T01N	▲	
S32T.0100.01.00	1.07	1	1.5	1.27	1.6	32T01N		▲
S32T.0110.01.00	1.24	1.1	1.5	1.36	1.6	32T01N		▲
S32T.0130.01.00	1.44	1.3	1.5	1.46	2	32T01N		▲
S32T.0160.01.00	1.74	1.6	1.5	1.61	3	32T01N		▲
S32T.0185.01.00	1.99	1.85	1.5	1.73	3	32T01N		▲
S32T.0215.01.00	2.29	2.15	2	2.13	3	32T02N		▲

Widths for circlip grooves DIN 471/472

Dimensions in mm

P	●	●
M	●	●
K	o	o
N	-	-
S	-	-
H	-	-



Coating grades

R = right hand version shown

L = left hand version

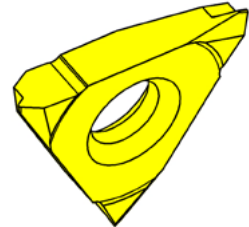
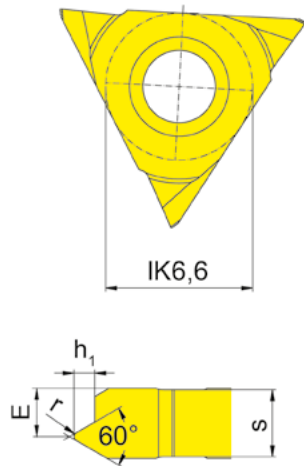
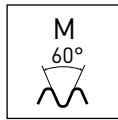
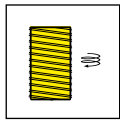
▲ In stock

Δ 2 weeks

Part number	w	r	s	s ₁	t _{max}	HIS	EG55
RS32T.0150.P0	1.5	0.05	1.5	1.7	2	32T01R	▲
RS32T.0200.P0	2	0.05	1.5	1.75	2	32T01R	▲
RS32T.0250.P0	2.5	0.1	2	2.25	2	32T02R	▲
LS32T.0150.P0	1.5	0.05	1.5	1.7	2	32T01L	▲
LS32T.0200.P0	2	0.05	1.5	1.75	2	32T01L	▲
LS32T.0250.P0	2.5	0.1	2	2.25	2	32T02L	▲

Dimensions in mm

P	●
M	●
K	○
N	-
S	-
H	-



Coating grades

R = right hand version shown

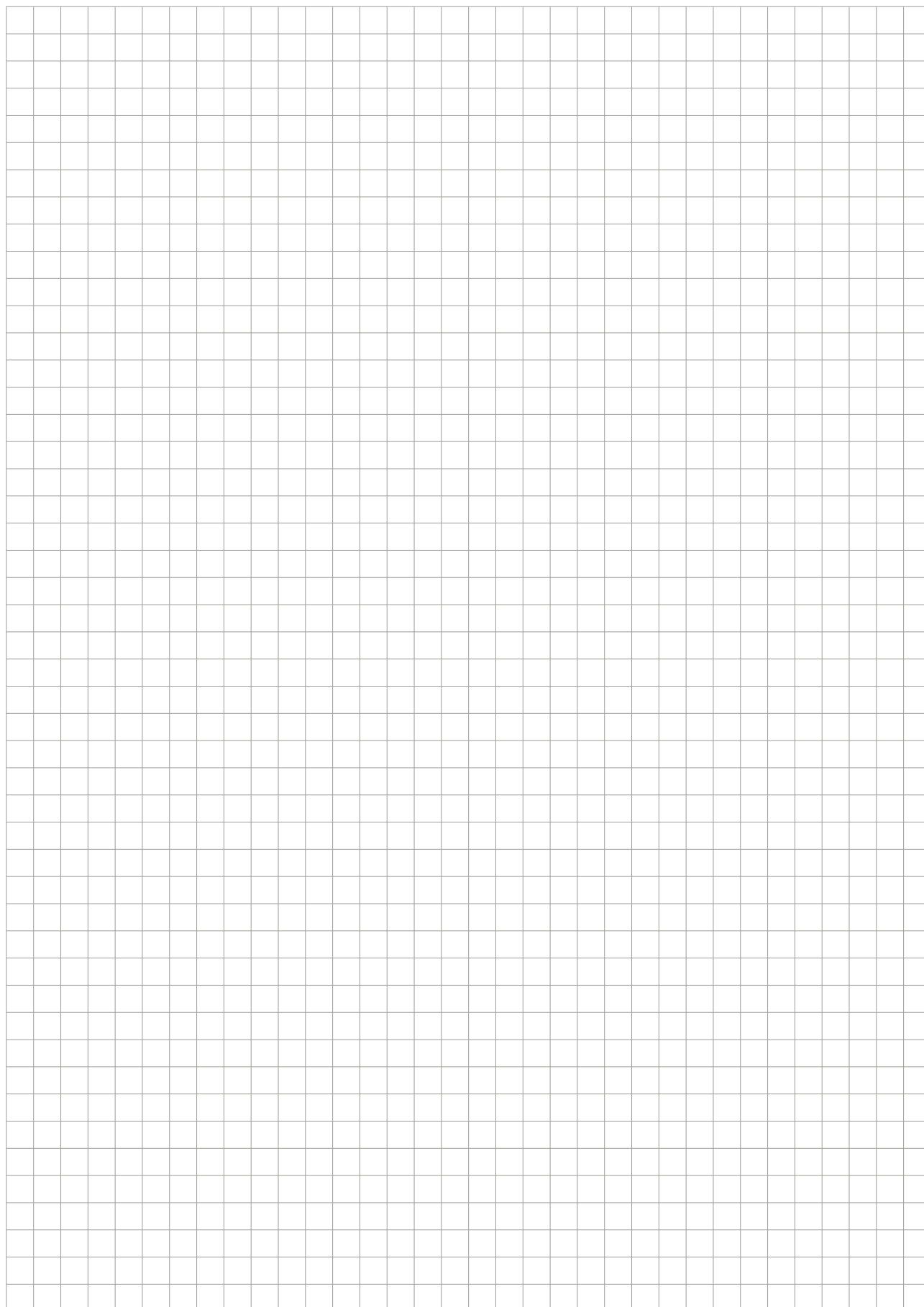
L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	h ₁	s	HIS	EG55
RS32T.0305.02	0.5	50	1.6	0.07	0.32	2	32T02R	▲
RS32T.0306.02	0.6	42	1.5	0.09	0.38	2	32T02R	▲
RS32T.0307.02	0.7	36	1.5	0.1	0.44	2	32T02R	▲
RS32T.0407.02	0.75	33	1.5	0.11	0.47	2	32T02R	▲
RS32T.0408.02	0.8	31	1.4	0.12	0.5	2	32T02R	▲
RS32T.0610.02	1	25	1.4	0.14	0.62	2	32T02R	▲
RS32T.0712.02	1.25	20	1.4	0.18	0.78	2	32T02R	▲
RS32T.0915.02	1.5	16	1.3	0.22	0.93	2	32T02R	▲
LS32T.0305.02	0.5	50	1.6	0.07	0.32	2	32T02L	▲
LS32T.0306.02	0.6	42	1.5	0.09	0.38	2	32T02L	▲
LS32T.0307.02	0.7	36	1.5	0.1	0.44	2	32T02L	▲
LS32T.0407.02	0.75	33	1.5	0.11	0.47	2	32T02L	▲
LS32T.0408.02	0.8	31	1.4	0.12	0.5	2	32T02L	▲
LS32T.0610.02	1	25	1.4	0.14	0.62	2	32T02L	▲
LS32T.0712.02	1.25	20	1.4	0.18	0.78	2	32T02L	▲
LS32T.0915.02	1.5	16	1.3	0.22	0.93	2	32T02L	▲
								P ●
								M ●
								K o
								N -
								S -
								H -

Dimensions in mm





SYSTEM 34T

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF

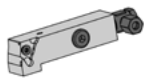
.040"-.196", 1.03-5mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

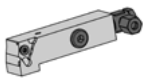
HOLDERS

Square Shank



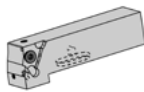
Page 470-471

Grooving, Turning, Part Off
Inch Shank



Page 472-473

Grooving, Turning, Part Off
Metric Shank



Page 474

Grooving, Turning, Part Off
Metric Shank

INSERTS

Grooving, Turning, Parting Off

Finishing



Page 475

.3 Chipbreaker
Grooving, Turning, Part Off



Page 476

.5 Chipbreaker
Grooving, Turning



Page 477

.D Chipbreaker
Grooving, Turning



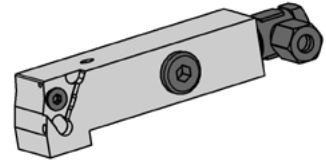
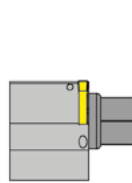
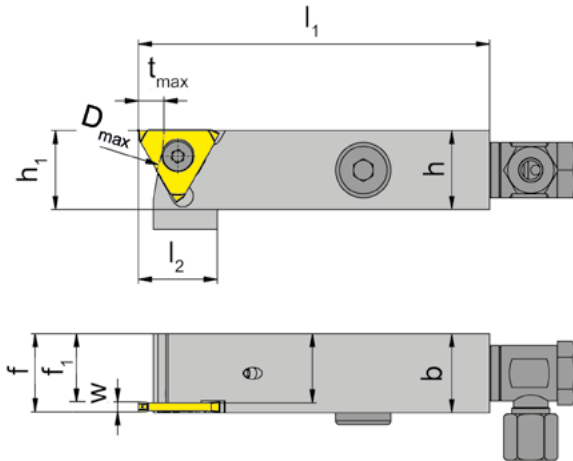
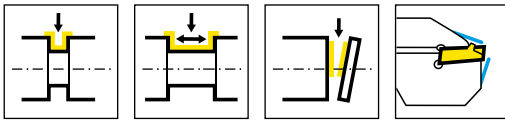
Page 478

.S Chipbreaker
Grooving, Part Off



Page 479

.FB Geometry
Finishing



R = right hand version shown

L = left hand version

Part number	h	b	l_1	h_1	f	D_{max}	t_{max}	HWS
RHU34T.0500.6.00.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T00L
RHU34T.0625.6.00.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T00L
RHU34T.0750.6.00.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T00L
LHU34T.0500.6.00.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T00L
LHU34T.0625.6.00.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T00L
LHU34T.0750.6.00.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T00L

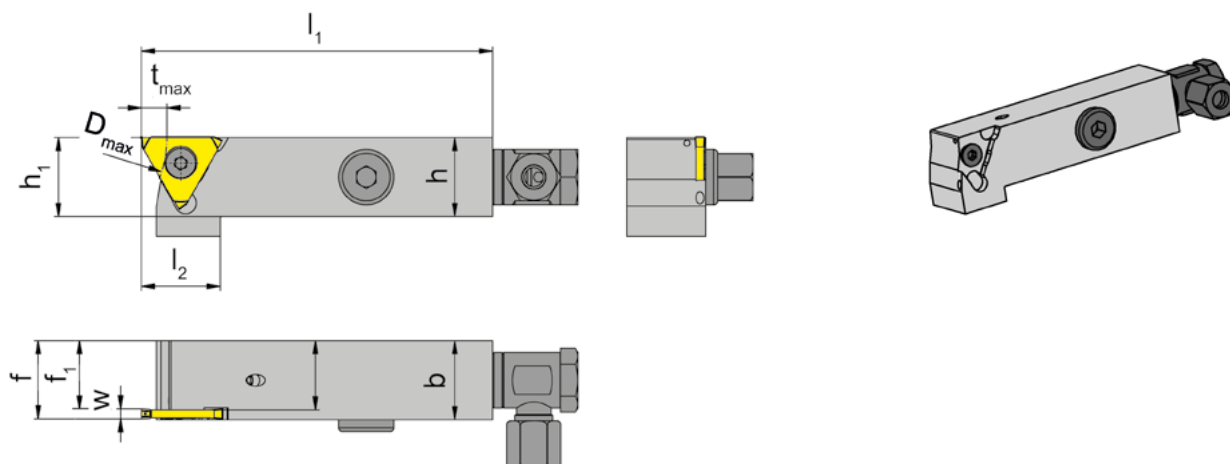
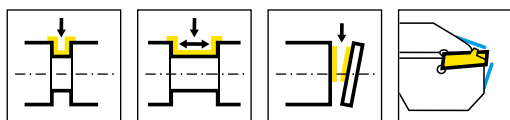
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU34T.0500.6.00.IK	004.00.61	030.4093.T15P	T15PQ	-	3 Nm
R/LHU34T....	004.00.16	030.4093.T15P	T15PQ	004.00.26	3 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	h_1	f	D_{max}	t_{max}	HWS
RHU34T.0500.6.10.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T01N
RHU34T.0625.6.10.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T01N
RHU34T.0750.6.10.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T01N
RHU34T.0500.6.20.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T02N
RHU34T.0625.6.20.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T02N
RHU34T.0750.6.20.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T02N
RHU34T.0500.6.30.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T03N
RHU34T.0625.6.30.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T03N
RHU34T.0750.6.30.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T03N
RHU34T.0625.6.40.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T04N
RHU34T.0750.6.40.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T04N
LHU34T.0500.6.10.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T01N
LHU34T.0625.6.10.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T01N
LHU34T.0750.6.10.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T01N
LHU34T.0500.6.20.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T02N
LHU34T.0625.6.20.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T02N
LHU34T.0750.6.20.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T02N
LHU34T.0500.6.30.IK	.500	.500	4.000	.500	f_1+w-a_1	2.362	.256	34T03N
LHU34T.0625.6.30.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T03N
LHU34T.0750.6.30.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T03N
LHU34T.0625.6.40.IK	.625	.625	5.000	.625	f_1+w-a_1	2.362	.256	34T04N
LHU34T.0750.6.40.IK	.750	.750	5.000	.750	f_1+w-a_1	2.362	.256	34T04N

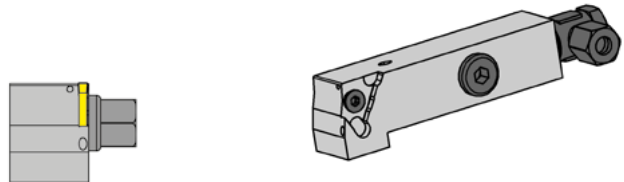
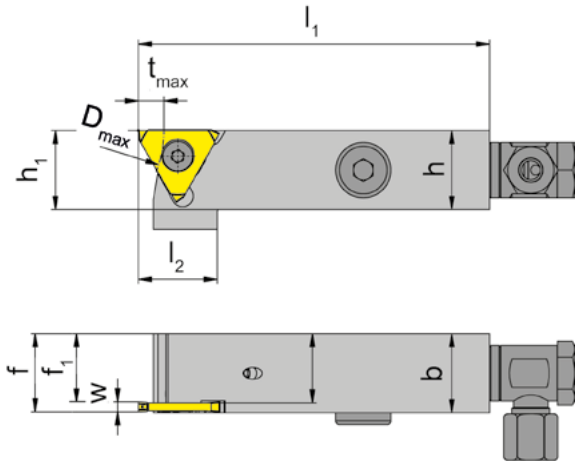
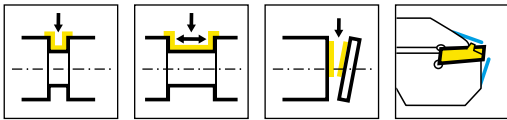
For the (w) and dimension, see inserts

Dimensions in inch



Spare Parts

	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LHU34T.10	004.00.16	030.4093.T15P	T15PQ	004.00.26	3 Nm
R/LHU34T.20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm
R/LHU34T.30/40	004.00.16	030.5012.T15P	T15PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	D_{max}	t_{max}	HWS
RH34T.1212.6.00.IK	12	12	74	20	21	11.2	$f_1 + w - a_1$	60	6.5	34T00R
RH34T.1616.6.00.IK	16	16	74	20	21	15.2	$f_1 + w - a_1$	60	6.5	34T00R
RH34T.2020.4.00.IK	20	20	89	20	20	19.1	$f_1 + w - a_1$	60	6.5	34T00R
RH34T.2020.6.00.IK	20	20	89	20	25	19.2	$f_1 + w - a_1$	60	6.5	34T00R
LH34T.1212.6.00.IK	12	12	74	20	21	11.2	$f_1 + w - a_1$	60	6.5	34T00L
LH34T.1616.6.00.IK	16	16	74	20	21	15.2	$f_1 + w - a_1$	60	6.5	34T00L
LH34T.2020.4.00.IK	20	20	89	20	20	19.1	$f_1 + w - a_1$	60	6.5	34T00L
LH34T.2020.6.00.IK	20	20	89	20	25	19.2	$f_1 + w - a_1$	60	6.5	34T00L

For the (w) and (a_1) dimensions, see inserts**Note:**

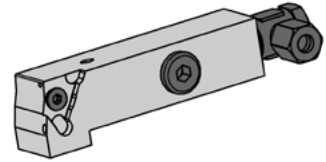
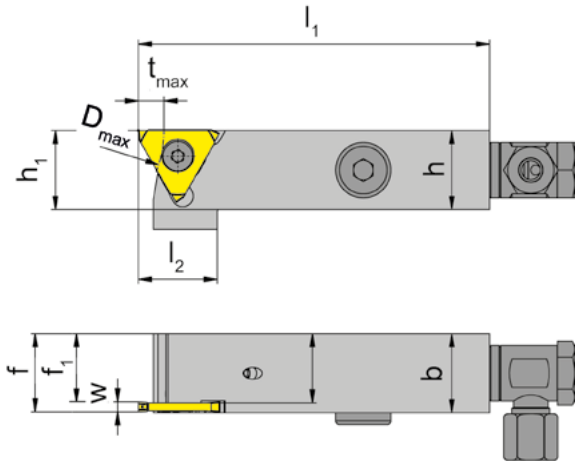
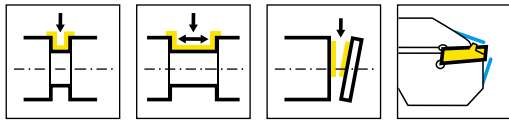
...6.00.IK = Coolant through coolant supply

...4.00.IK = Coolant through slotted hole VDI

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH34T.6	004.00.22	030.4093.T15P	T15PQ	-	3 Nm
R/LH34T.4	004.00.16	030.4093.T15P	T15PQ	004.00.26	3 Nm



R = right hand version shown

L = left hand version

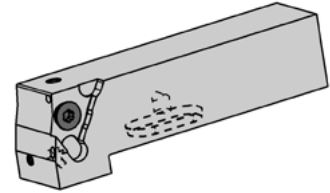
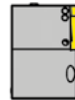
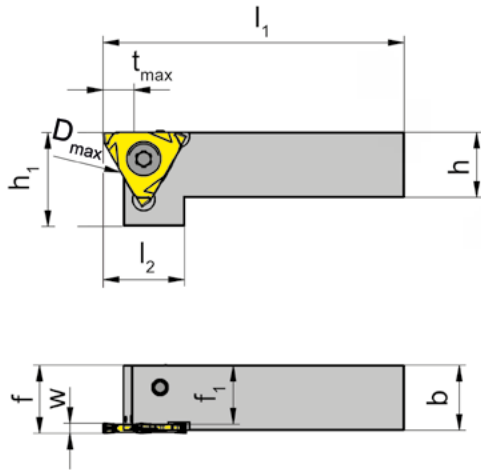
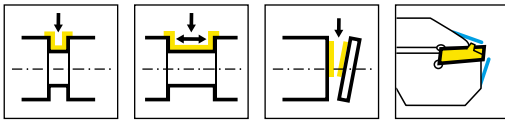
Part number	h	b	l_1	l_2	h_1	f_1	f	D_{max}	t_{max}	HWS
RH34T.1212.6.10.IK	12	12	74	20	21	10.5	f_1+w-a_1	60	6.5	34T01N
RH34T.1616.6.10.IK	16	16	74	20	21	14.5	f_1+w-a_1	60	6.5	34T01N
RH34T.2020.6.10.IK	20	20	89	20	25	18.5	f_1+w-a_1	60	6.5	34T01N
RH34T.1212.6.20.IK	12	12	74	20	21	11.76	f_1+w-a_1	60	6.5	34T02N
RH34T.1616.6.20.IK	16	16	74	20	21	13.5	f_1+w-a_1	60	6.5	34T02N
RH34T.2020.6.20.IK	20	20	89	20	25	17.5	f_1+w-a_1	60	6.5	34T02N
RH34T.1212.6.30.IK	12	12	74	19	21	12.26	f_1+w-a_1	60	6.5	34T03N
RH34T.1616.6.30.IK	16	16	74	19	21	12.5	f_1+w-a_1	60	6.5	34T03N
RH34T.2020.6.30.IK	20	20	89	19	25	16.5	f_1+w-a_1	60	6.5	34T03N
RH34T.1616.6.40.IK	16	16	74	19	21	11.5	f_1+w-a_1	60	6.5	34T04N
RH34T.2020.6.40.IK	20	20	89	19	25	15.5	f_1+w-a_1	60	6.5	34T04N
LH34T.1212.6.10.IK	12	12	74	20	21	10.5	f_1+w-a_1	60	6.5	34T01N
LH34T.1616.6.10.IK	16	16	74	20	21	14.5	f_1+w-a_1	60	6.5	34T01N
LH34T.2020.6.10.IK	20	20	89	20	25	18.5	f_1+w-a_1	60	6.5	34T01N
LH34T.1212.6.20.IK	12	12	74	20	21	11.76	f_1+w-a_1	60	6.5	34T02N
LH34T.1616.6.20.IK	16	16	74	20	21	13.5	f_1+w-a_1	60	6.5	34T02N
LH34T.2020.6.20.IK	20	20	89	20	25	17.5	f_1+w-a_1	60	6.5	34T02N
LH34T.1212.6.30.IK	12	12	74	19	21	12.26	f_1+w-a_1	60	6.5	34T03N
LH34T.1616.6.30.IK	16	16	74	19	21	12.5	f_1+w-a_1	60	6.5	34T03N
LH34T.2020.6.30.IK	20	20	89	19	25	16.5	f_1+w-a_1	60	6.5	34T03N
LH34T.1616.6.40.IK	16	16	74	19	21	11.5	f_1+w-a_1	60	6.5	34T04N
LH34T.2020.6.40.IK	20	20	89	19	25	15.5	f_1+w-a_1	60	6.5	34T04N

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH34T.10	004.00.16	030.4093.T15P	T15PQ	004.00.26	3 Nm
R/LH34T.20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm
R/LH34T.30/40	004.00.16	030.5012.T15P	T15PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

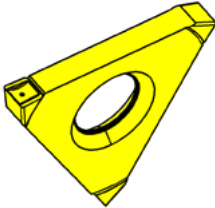
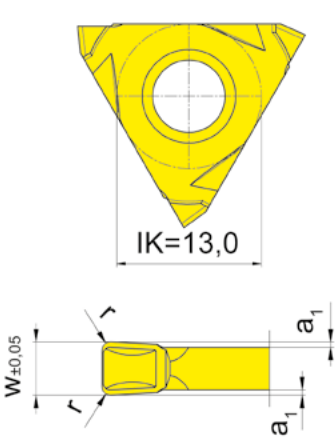
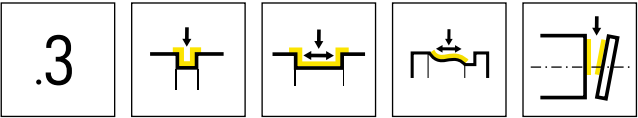
Part number	h	b	l_1	l_2	h_1	f_1	f	D_{max}	t_{max}	HWS
RH34T.1616.4.10.IK	16	16	74	20	21	14.5	f_1+w-a_1	60	6.5	34T01N
RH34T.2020.4.10.IK	16	16	74	20	21	13.5	f_1+w-a_1	60	6.5	34T02N
RH34T.2525.4.10.IK	20	20	89	20	20	19.1	f_1+w-a_1	60	6.5	34T00R
RH34T.1616.4.20.IK	20	20	89	20	25	18.5	f_1+w-a_1	60	6.5	34T01N
RH34T.2020.4.20.IK	20	20	89	20	25	17.5	f_1+w-a_1	60	6.5	34T02N
RH34T.2525.4.20.IK	20	20	89	21	25	16.5	f_1+w-a_1	60	6.5	34T03N
RH34T.2020.4.30.IK	20	20	89	21	25	15.5	f_1+w-a_1	60	6.5	34T04N
RH34T.2525.4.30.IK	25	25	99	20	30	23.5	f_1+w-a_1	60	6.5	34T01N
RH34T.2020.4.40.IK	25	25	99	20	30	22.5	f_1+w-a_1	60	6.5	34T02N
RH34T.2525.4.40.IK	25	25	99	21	30	21.5	f_1+w-a_1	60	6.5	34T03N
RH34T.2020.4.00.IK	25	25	99	21	30	20.5	f_1+w-a_1	60	6.5	34T04N
LH34T.1616.4.10.IK	16	16	74	20	21	14.5	f_1+w-a_1	60	6.5	34T01N
LH34T.2020.4.10.IK	16	16	74	20	21	13.5	f_1+w-a_1	60	6.5	34T02N
LH34T.2525.4.10.IK	20	20	89	20	20	19.1	f_1+w-a_1	60	6.5	34T00L
LH34T.1616.4.20.IK	20	20	89	20	25	18.5	f_1+w-a_1	60	6.5	34T01N
LH34T.2020.4.20.IK	20	20	89	20	25	17.5	f_1+w-a_1	60	6.5	34T02N
LH34T.2525.4.20.IK	20	20	89	21	25	16.5	f_1+w-a_1	60	6.5	34T03N
LH34T.2020.4.30.IK	20	20	89	21	25	15.5	f_1+w-a_1	60	6.5	34T04N
LH34T.2525.4.30.IK	25	25	99	20	30	23.5	f_1+w-a_1	60	6.5	34T01N
LH34T.2020.4.40.IK	25	25	99	20	30	22.5	f_1+w-a_1	60	6.5	34T02N
LH34T.2525.4.40.IK	25	25	99	21	30	21.5	f_1+w-a_1	60	6.5	34T03N
LH34T.2020.4.00.IK	25	25	99	21	30	20.5	f_1+w-a_1	60	6.5	34T04N

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH34T.10	030.4010.T15P	T15PQ	5 Nm
R/LH34T.00	030.4093.T15P	T15PQ	3 Nm
R/LH34T.40	030.5012.T15P	T20PQ	6 Nm



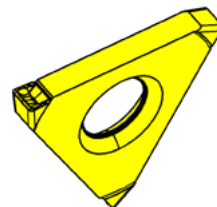
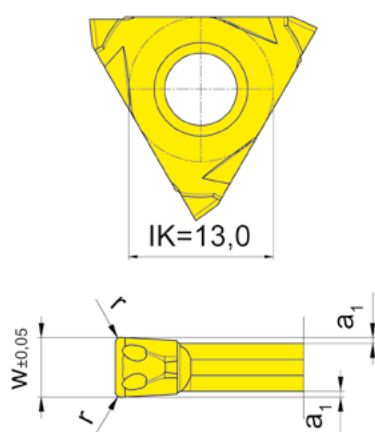
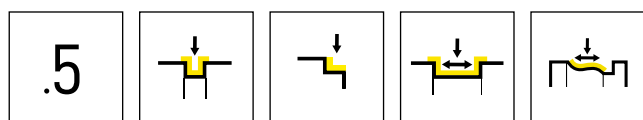
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS	AS45	EG55
S34T.0200.32	2	0.2	0.25	34T01N	▲	▲
S34T.0200.34	2	0.4	0.25	34T01N	▲	▲
S34T.0250.32	2.5	0.2	0.25	34T02N	Δ	▲
S34T.0250.34	2.5	0.4	0.25	34T02N	Δ	▲
S34T.0300.32	3	0.2	0.25	34T02N	▲	▲
S34T.0300.34	3	0.4	0.25	34T02N	Δ	▲
S34T.0400.32	4	0.2	0.25	34T03N	▲	▲
S34T.0500.32	5	0.2	0.25	34T04N		▲
Dimensions in mm					P	●
					M	○
					K	○
					N	-
					S	-
					H	-

0

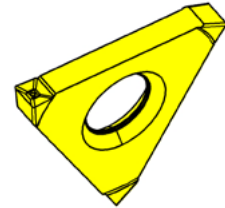
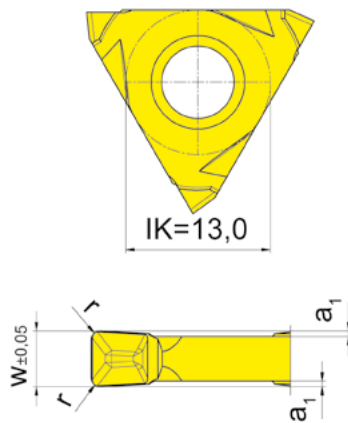
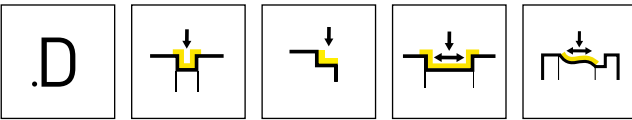


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS		AS45	EG55
S34T.0250.52	2.5	0.2	0.25	34T02N	▲	●	●
S34T.0250.54	2.5	0.4	0.25	34T02N	▲	○	▲
S34T.0300.52	3	0.2	0.25	34T02N	Δ	○	▲
S34T.0300.54	3	0.4	0.25	34T02N	Δ	○	▲
S34T.0400.52	4	0.2	0.25	34T03N	▲	○	●
S34T.0400.54	4	0.4	0.25	34T03N	▲	○	●
S34T.0500.52	5	0.2	0.25	34T04N	▲	○	●
Dimensions in mm					P	●	●
					M	○	●
					K	○	○
					N	-	-
					S	-	-
					H	-	-



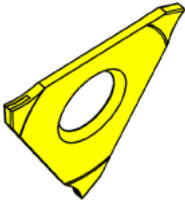
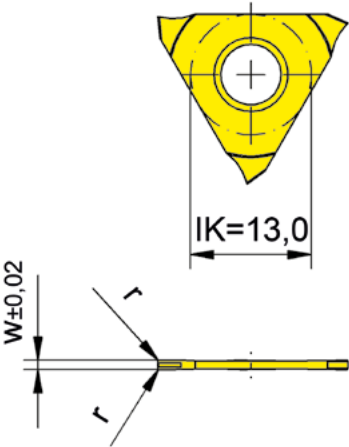
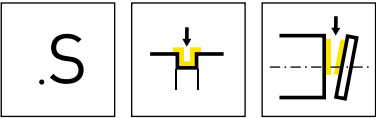
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS	AS45	EG55
S34T.0200.D2	2	0.2	0.25	34T01N	▲	▲
S34T.0200.D4	2	0.4	0.25	34T01N	Δ	▲
S34T.0250.D2	2.5	0.2	0.25	34T02N	Δ	
S34T.0250.D4	2.5	0.4	0.25	34T02N	▲	▲
S34T.0300.D2	3	0.2	0.25	34T02N	Δ	▲
S34T.0300.D4	3	0.4	0.25	34T02N	Δ	
Dimensions in mm					P	●
					M	○
					K	○
					N	-
					S	-
					H	-

0

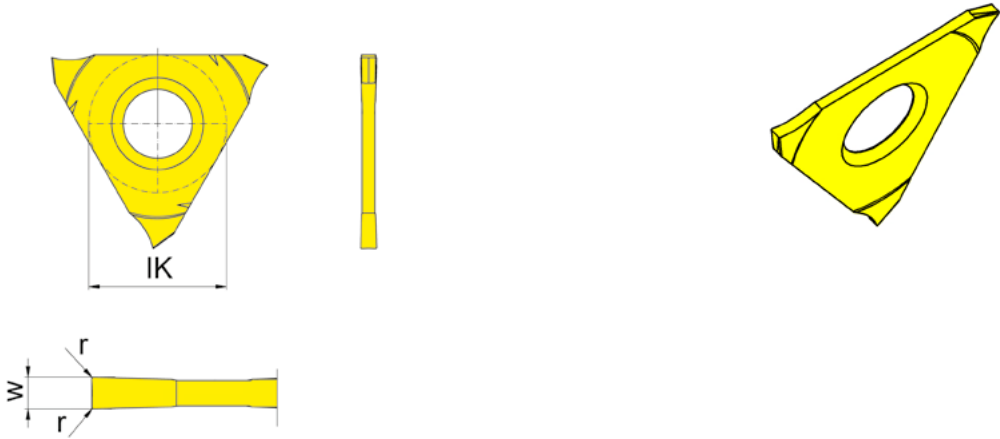
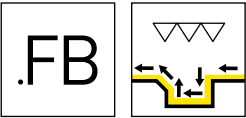


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	HIS	IG35	
RS34T.0100.3S	1.03	0.15	34T00R	▲	
LS34T.0100.3S	1.03	0.15	34T00L	▲	
Dimensions in mm				P	●
				M	●
				K	●
				N	o
				S	o
				H	-



R = right hand version shown

L = left hand version

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	EG35	
RS34T.FB10.01	1	0.1	34T00R	▲	
RS34T.FB15.01	1.5	0.1	34T00R	▲	
LS34T.FB10.01	1	0.1	34T00L	▲	
LS34T.FB15.01	1.5	0.1	34T00L	▲	
Dimensions in mm				P	●
				M	●
				K	○
				N	-
				S	-
				H	-



SYSTEM 312

INTERNAL/EXTERNAL GROOVING, EXTERNAL SIDE TURNING, PARTING OFF, AND FACE GROOVING

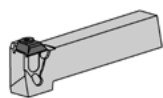
.019"-.248" , 0.5-6.3mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•			•	•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

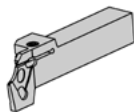
HOLDERS

Square Shank



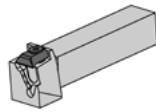
Page 485-487

Groove, Turn, Part Off,
Face Groove - Inch Shank



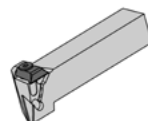
Page 488

Part Off
Inch Shank



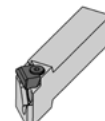
Page 489

Groove, Turn, Face Groove
Cranked, Inch Shank



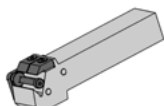
Page 490

Groove and Part Off
Inch Shank



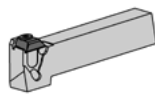
Page 491

Corner Cutting
Inch Shank



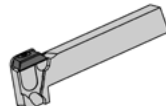
Page 492-493

Multi-Groove
Inch Shank



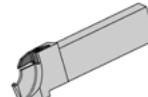
Page 494-498

Groove, Turn, Part Off,
Face Groove - Metric Shank



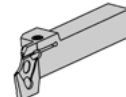
Page 499

Groove and Part Off
Metric Shank



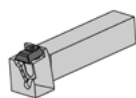
Page 500-501

Part Off and Groove
Metric Shank



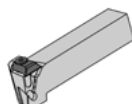
Page 502-503

Part Off
Traub - Metric



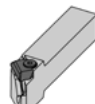
Page 504

Groove, Turn, Face Groove
Cranked, Metric Shank



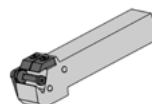
Page 505-506

Groove and Part Off
Metric Shank



Page 507

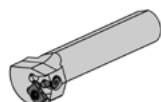
Corner Cutting
Metric Shank



Page 508-509

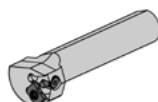
Multi-Groove
Metric Shank

Round Shank



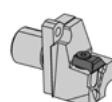
Page 510

Groove and Turn
Inch Shank



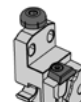
Page 511

Groove and Turn
Metric Shank



Page 512

Grooving and Turning
Star - Metric



Page 513-515

Grooving and Turning
Adjustable - Metric

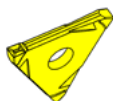
Specialty

Cutting Data and Technical Instructions - Chapter V / Page 706

Grooving, Side Turning, Finishing, Face Grooving - Inch Width



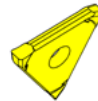
Page 516
 .5 Chipbreaker
 Grooving and Turning



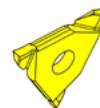
Page 517
 .D Chipbreaker
 Grooving and Turning



Page 518-519
 Circlip Grooving



Page 520-521
 Finishing



Page 522
 Face Grooving

Grooving, Side Turning, Finishing, Face Grooving - Metric Width



Page 523
 .F Chipbreaker
 Part Off and Groove



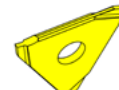
Page 524
 .5 Chipbreaker
 Groove and Turn



Page 525
 .D Chipbreaker
 Groove and Turn



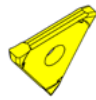
Page 526
 .C Chipbreaker
 Parting Off



Page 527-530
 Circlip Grooving



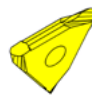
Page 531
 Grooving with
 Chamfer



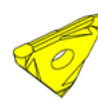
Page 532
 Finishing



Page 533
 .P Chipbreaker
 Groove and Turn



Page 534-535
 Corner Cutting



Page 536
 Full Radius
 Grooving and Profiling



Page 537-538
 Thread Undercut



Page 539
 Poly-V-Belt
 Grooving



Page 540-541
 .00 Geometry
 Parting Off



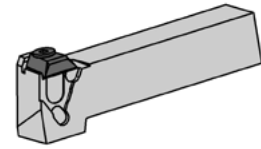
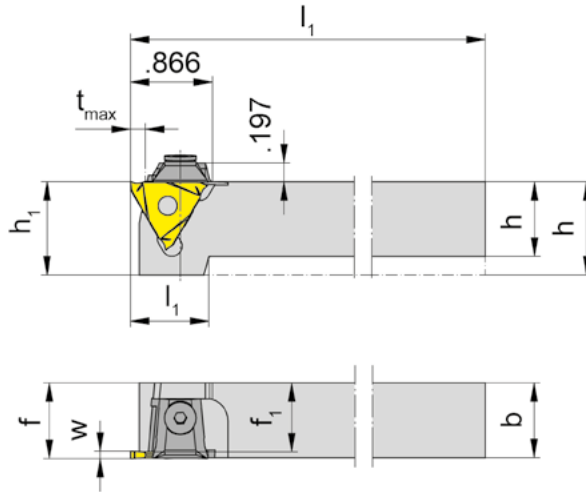
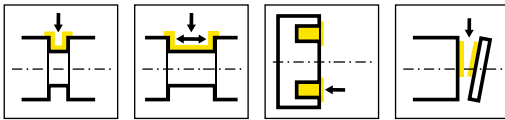
Page 542
 .M0 Geometry
 Parting Off



Page 543
 .V Chipbreaker
 Groove and Part Off



Page 544
 .C Chipbreaker
 Parting Off



P

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	HWS
RU360.0500.01	.500	.500	3.996	.945	.984	.441	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0625.01	.625	.625	5.118	.866	.984	.566	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0750.01	.750	.750	5.118	.827	.984	.691	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.1000.01	1.000	1.000	6.004	-	1.000	.941	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.1250.01	1.250	1.250	6.693	-	1.250	1.191	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0500.02	.500	.500	3.996	.945	.984	.402	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.0625.02	.625	.625	5.118	.866	.984	.527	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.0750.02	.750	.750	5.118	.827	.984	.652	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.1000.02	1.000	1.000	6.004	-	1.000	.902	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.1250.02	1.250	1.250	6.693	-	1.250	1.152	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.0500.01	.500	.500	3.996	.945	.984	.441	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.0625.01	.625	.625	5.118	.866	.984	.566	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.0750.01	.750	.750	5.118	.827	.984	.691	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.1000.01	1.000	1.000	6.004	-	1.000	.941	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.1250.01	1.250	1.250	6.693	-	1.250	1.191	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.0500.02	.500	.500	3.996	.945	.984	.402	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.0625.02	.625	.625	5.118	.866	.984	.527	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.0750.02	.750	.750	5.118	.827	.984	.652	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.1000.02	1.000	1.000	6.004	-	1.000	.902	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.1250.02	1.250	1.250	6.693	-	1.250	1.152	$f_1 + w - a_1$	31202L • 31202R • 31202N

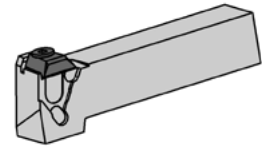
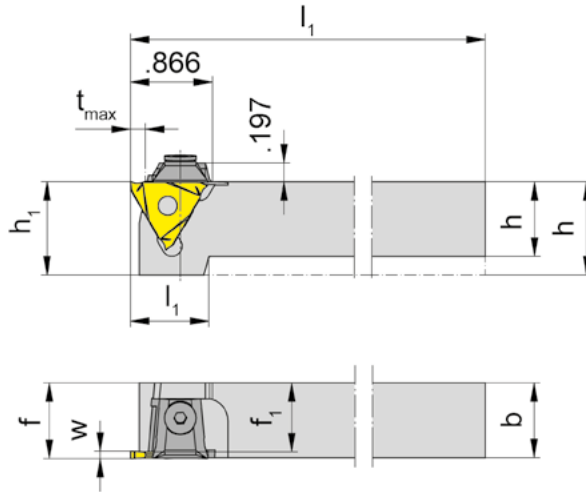
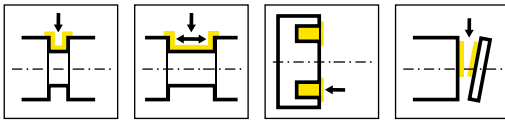
For the (w) and (a1) dimensions, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping element
R/LU360...	11.3
R/LU360...	16.4



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	HWS
RU360.0500.03	.500	.500	3.996	.945	.984	.362	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0625.03	.625	.625	5.118	.866	.984	.487	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0750.03	.750	.750	5.118	.827	.984	.612	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.1000.03	1.000	1.000	6.004	-	1.000	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.1250.03	1.250	1.250	6.693	-	1.250	1.112	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0625.04	.625	.625	5.000	.866	.984	.420	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.0750.04	.750	.750	5.118	.827	.984	.545	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.1000.04	1.000	1.000	6.000	-	1.000	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.1250.04	1.250	1.250	6.693	-	1.250	1.045	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.0500.03	.500	.500	3.996	.945	.984	.362	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.0625.03	.625	.625	5.118	.866	.984	.487	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.0750.03	.750	.750	5.118	.827	.984	.612	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.1000.03	1.000	1.000	6.004	-	1.000	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.1250.03	1.250	1.250	6.693	-	1.250	1.112	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.0625.04	.625	.625	5.000	.866	.984	.420	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.0750.04	.750	.750	5.118	.827	.984	.545	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.1000.04	1.000	1.000	6.000	-	1.000	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.1250.04	1.250	1.250	6.693	-	1.250	1.045	$f_1 + w - a_1$	31204L • 31204R • 31204N

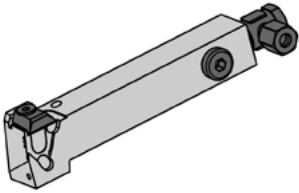
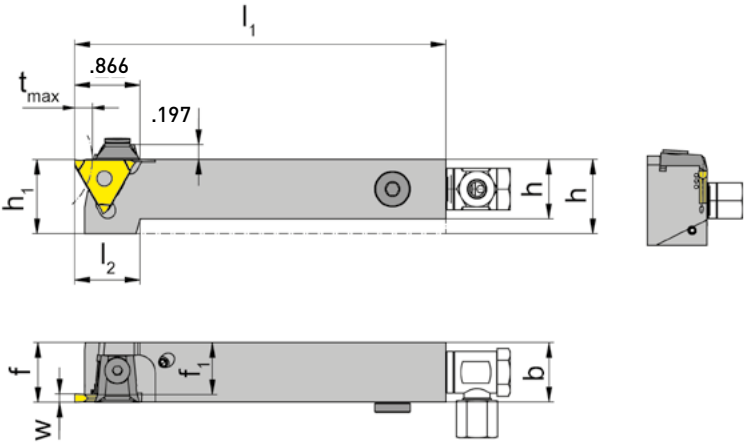
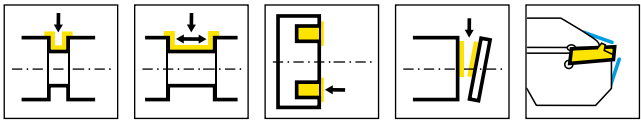
For the (w) and (a1) dimensions, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping element
R/LU360....	11.3
R/LU360...	16.4
R/LU360.0625.04	13.4



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	f	HWS
RU360.1000.03.IK	1.000	1.000	6.004	1.000	.862	f ₁ +w-a ₁	31203L • 31203R • 31203N
RU360.1000.04.IK	1.000	1.000	6.004	1.000	.795	f ₁ +w-a ₁	31204L • 31204R • 31204N
LU360.1000.03.IK	1.000	1.000	6.004	1.000	.862	f ₁ +w-a ₁	31203L • 31203R • 31203N
LU360.1000.04.IK	1.000	1.000	6.004	1.000	.795	f ₁ +w-a ₁	31204L • 31204R • 31204N

For the (w) and (a1) dimensions, see inserts

tmax can be reached only with workpiece $\varnothing \leq 1.575$ "

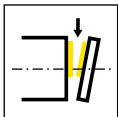
Dimensions in inch



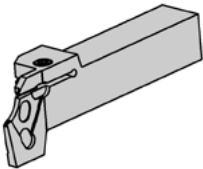
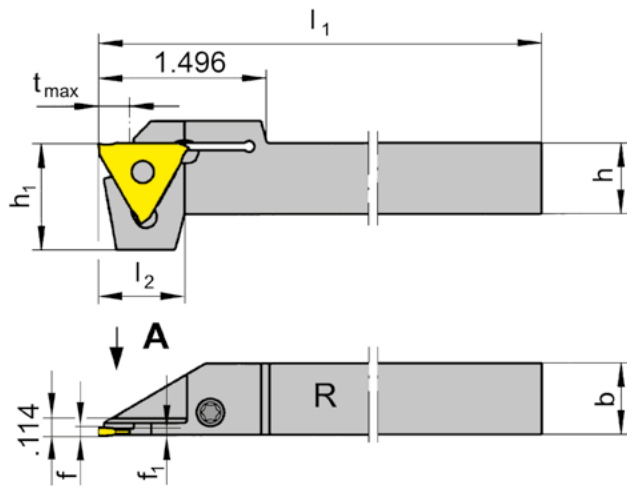
Spare Parts

Toolholder	Coolant supply	Clamping element	Screw Plug
R/LU360...	004.00.16	16.4	004.00.21

P



P



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f	t _{max}	HWS
RU368.0500.08	.500	.500	3.996	.768	.945	f ₁ +a ₁	.315	31208N
RU368.0625.08	.625	.625	5.118	.768	.945	f ₁ +a ₁	.315	31208N
RU368.0500.11	.500	.500	3.996	.768	.947	f ₁ +a ₁	.315	31211N
RU368.0625.11	.625	.625	5.118	.768	.947	f ₁ +a ₁	.315	31211N
LU368.0500.08	.500	.500	3.996	.768	.945	f ₁ +a ₁	.315	31208N
LU368.0625.08	.625	.625	5.118	.768	.945	f ₁ +a ₁	.315	31208N
LU368.0500.11	.500	.500	3.996	.768	.947	f ₁ +a ₁	.315	31211N
LU368.0625.11	.625	.625	5.118	.768	.947	f ₁ +a ₁	.315	31211N

for machines TRAUB (TNL12/7)

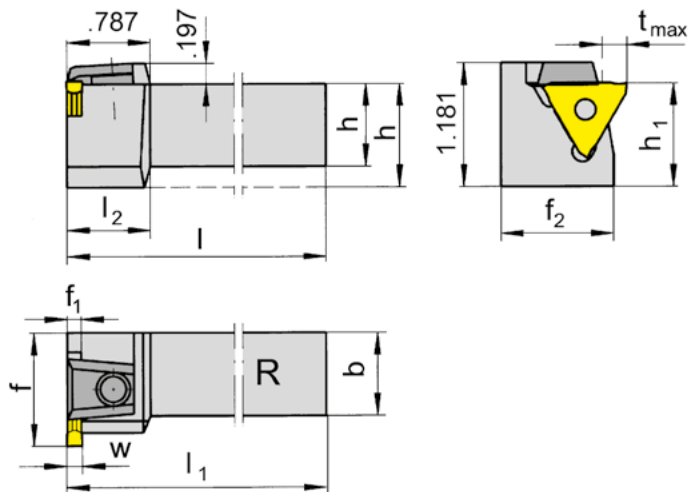
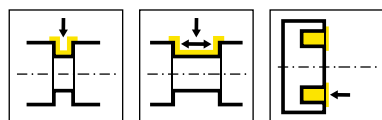
a1 see indexable inserts

Dimensions in inch



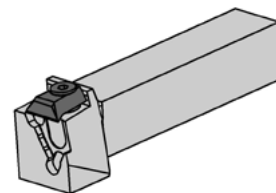
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LU368...	4.15T15P	T15PQ	4 Nm



R = right hand version shown

L = left hand version



P

Part number	h	b	l_1	h_1	f	t_{max}	f_1	f_2	HWS
RU369.0750.01	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.171	.059	.959	31201N • 31201R • 31201L • 31208N • 31211N
RU369.1000.01	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.171	.059	1.156	31201N • 31201R • 31201L • 31208N • 31211N
RU369.0750.02	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.098	.919	31202N • 31202R • 31202L
RU369.1000.02	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.098	1.116	31202N • 31202R • 31202L
RU369.0750.03	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.138	.919	31203N • 31203R • 31203L
RU369.1000.03	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.138	1.116	31203N • 31203R • 31203L
RU369.0750.04	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.205	.919	31204N • 31204R • 31204L
RU369.1000.04	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.205	1.116	31204N • 31204R • 31204L
LU369.0750.01	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.171	.059	.959	31201N • 31201R • 31201L • 31208N • 31211N
LU369.1000.01	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.171	.059	1.156	31201N • 31201R • 31201L • 31208N • 31211N
LU369.0750.02	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.098	.919	31202N • 31202R • 31202L
LU369.1000.02	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.098	1.116	31202N • 31202R • 31202L
LU369.0750.03	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.138	.919	31203N • 31203R • 31203L
LU369.1000.03	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.138	1.116	31203N • 31203R • 31203L
LU369.0750.04	.750	.750	$l-f_1+w-a_1$	1.000	1.063	.250	.205	.919	31204N • 31204R • 31204L
LU369.1000.04	1.000	1.000	$l-f_1+w-a_1$	1.000	1.260	.250	.205	1.116	31204N • 31204R • 31204L

For the (w) and (a1) dimensions, see inserts

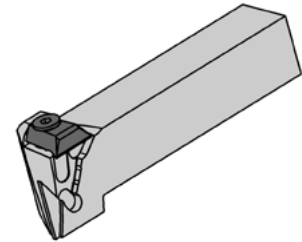
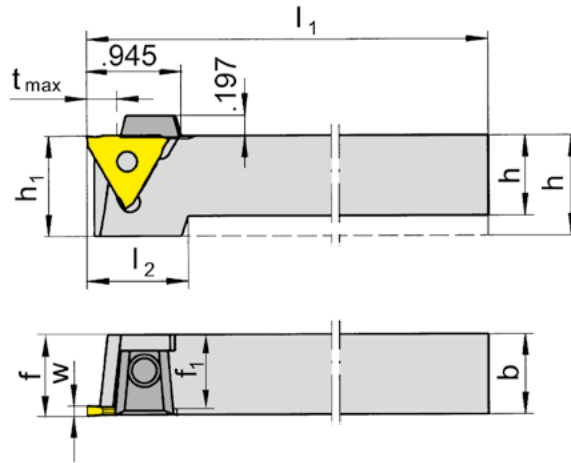
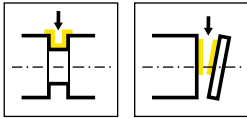
 t_{max} can be reached only with workpiece $\varnothing \leq 1.575''$

Dimensions in inch



Spare Parts

Toolholder	Clamping element
R/LU369...	16.4



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f	HWS
RU390.0750.02	.750	.750	5.118	.945	1.000	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.1000.02	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.1250.02	1.250	1.250	6.004	-	1.250	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.0750.03	.750	.750	5.118	.866	1.000	$f_1 + w - a_1$	31203N • 31203R • 31203L
RU390.1000.03	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31203N • 31203R • 31203L
RU390.0750.04	.750	.750	5.118	.866	1.000	$f_1 + w - a_1$	31204N • 31204R • 31204L
RU390.1000.04	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31204N • 31204R • 31204L
RU390.1250.04	1.250	1.250	6.693	-	1.250	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.0750.02	.750	.750	5.118	.945	1.000	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.1000.02	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.1250.02	1.250	1.250	6.004	-	1.250	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.0750.03	.750	.750	5.118	.866	1.000	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.1000.03	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.1250.03	1.250	1.250	6.693	-	1.250	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.0750.04	.750	.750	5.118	.866	1.000	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.1000.04	1.000	1.000	6.004	-	1.000	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.1250.04	1.250	1.250	6.693	-	1.250	$f_1 + w - a_1$	31204N • 31204R • 31204L

For the (w) and (a1) dimensions, see inserts

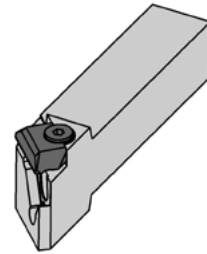
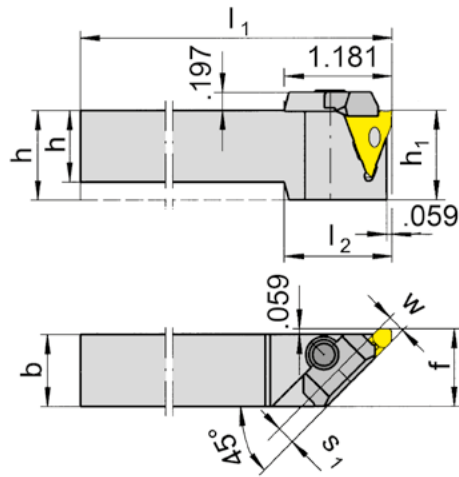
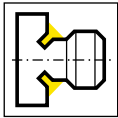
tmax can be reached only with workpiece $\varnothing \leq 1.575''$

Dimensions in inch



Spare Parts

Toolholder	Clamping element
R/LU390...	16.4
LU390.1250.03	16.4



P

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f	s_1	HWS
RU309.0750.02	.750	.750	5.118	1.181	1.000	.809	.098	31202L • 31202R • 31202N
RU309.1000.02	1.000	1.000	6.004	-	1.000	1.059	.098	31202L • 31202R • 31202N
RU309.1250.02	1.250	1.250	6.693	-	1.250	1.309	.098	31202L • 31202R • 31202N
RU309.0750.03	.750	.750	5.118	1.181	1.004	.809	.138	31203L • 31203R • 31203N
RU309.1000.03	1.000	1.000	6.004	-	1.001	1.059	.138	31203L • 31203R • 31203N
RU309.0750.04	.750	.750	5.118	1.181	1.001	.809	.205	31204L • 31204R • 31204N
RU309.1000.04	1.000	1.000	6.004	-	1.001	1.059	.205	31204L • 31204R • 31204N
RU309.1250.04	1.250	1.250	6.693	-	1.251	1.309	.205	31204L • 31204R • 31204N
LU309.0750.02	.750	.750	5.118	1.181	1.000	.809	.098	31202L • 31202R • 31202N
LU309.1000.02	1.000	1.000	6.004	-	1.000	1.059	.098	31202L • 31202R • 31202N
LU309.1250.02	1.250	1.250	6.693	-	1.250	1.309	.098	31202L • 31202R • 31202N
LU309.0750.03	.750	.750	5.118	1.181	1.004	.809	.138	31203L • 31203R • 31203N
LU309.1000.03	1.000	1.000	6.004	-	1.001	1.059	.138	31203L • 31203R • 31203N
LU309.1250.03	1.250	1.250	6.693	-	1.251	1.309	.138	31203L • 31203R • 31203N
LU309.0750.04	.750	.750	5.118	1.181	1.001	.809	.205	31204L • 31204R • 31204N
LU309.1000.04	1.000	1.000	6.004	-	1.001	1.059	.205	31204L • 31204R • 31204N
LU309.1250.04	1.250	1.250	6.693	-	1.251	1.309	.205	31204L • 31204R • 31204N

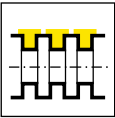
For the (w) dimension, see inserts

Dimensions in inch

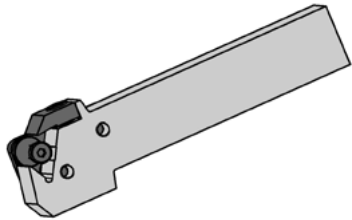
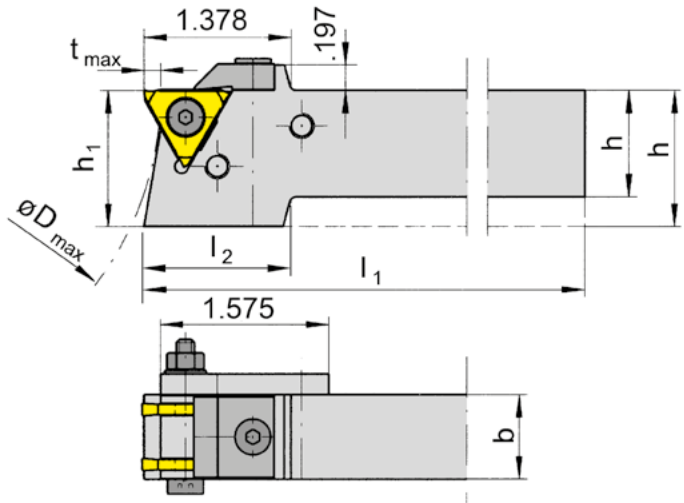


Spare Parts

Toolholder	Clamping element
R/LU309...	21.4
LU309.1250.03	21.4



P



Part number	h	b	l ₁	l ₂	h ₁	D _{max}	HWS
U340.0750.01	.750	.750	6.693	1.378	1.260	6.299	31201N
U340.1000.01	1.000	.750	6.693	1.378	1.260	6.299	31201N
U340.1250.01	1.250	.750	6.693	-	1.250	6.299	31201N

Only usable with special inserts type 312

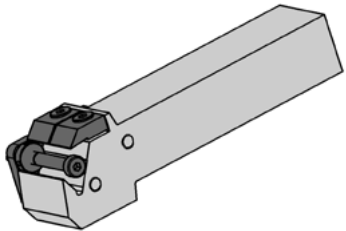
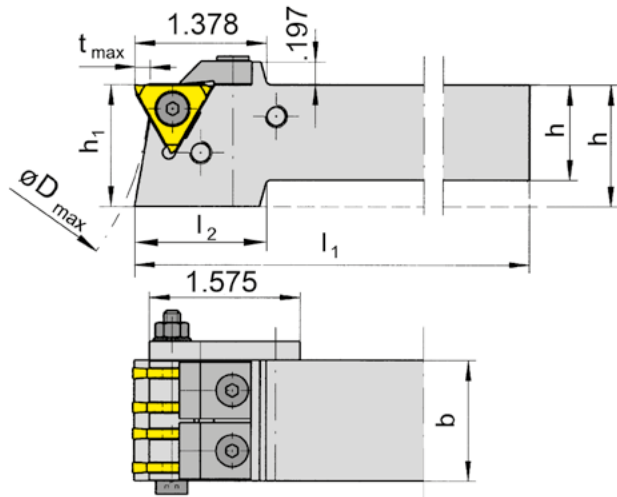
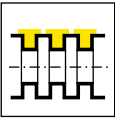
Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Flange	Clamping element	Torque Value
U340...	5.30.7984	24.40	340.0200	-



P

Right hand mounted

Part number	h	b	l ₁	l ₂	h ₁	D _{max}	HWS
U340.1000.02	1.000	1.250	6.693	1.378	1.250	6.299	31202N
U340.1250.02	1.250	1.250	6.693	-	1.250	6.299	31202N

Only usable with special inserts type 312

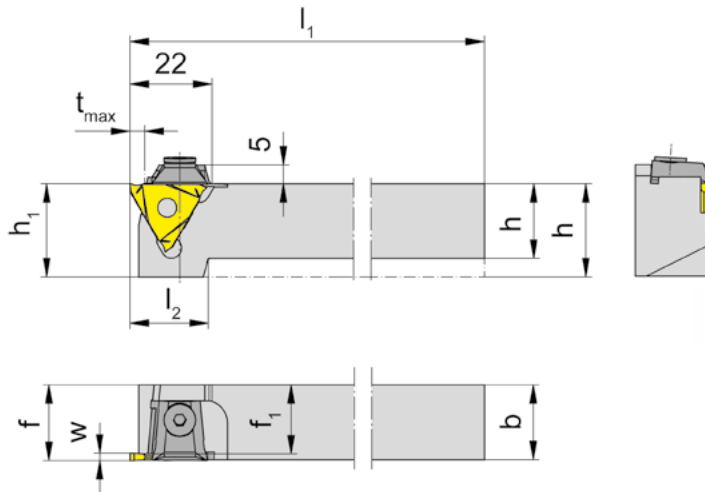
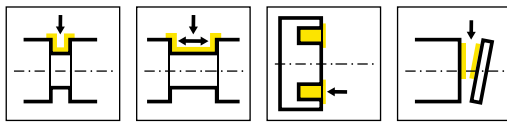
Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	Flange	Package screw	Clamping element	Torque Value
U340...	6.16.7991	24.40	5.40.7984	22.16	-



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R360.1212.01	12	12	100	24	25	10.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.1616.01	16	16	125	22	25	14.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.2020.01	20	20	125	21	25	18.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.2525.01	25	25	150	-	25	23.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.3232.01	32	32	170	-	32	30.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.1212.02	12	12	100	24	25	9.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.1616.02	16	16	125	22	25	13.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.2020.02	20	20	125	21	25	17.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.2525.02	25	25	150	-	25	22.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.3232.02	32	32	170	-	32	29.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.1212.01	12	12	100	24	25	10.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.1616.01	16	16	125	22	25	14.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.2020.01	20	20	125	21	25	18.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.2525.01	25	25	150	-	25	23.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.3232.01	32	32	170	-	32	30.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.1212.02	12	12	100	24	25	9.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.1616.02	16	16	125	22	25	13.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.2020.02	20	20	125	21	25	17.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.2525.02	25	25	150	-	25	22.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.3232.02	32	32	170	-	32	29.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L

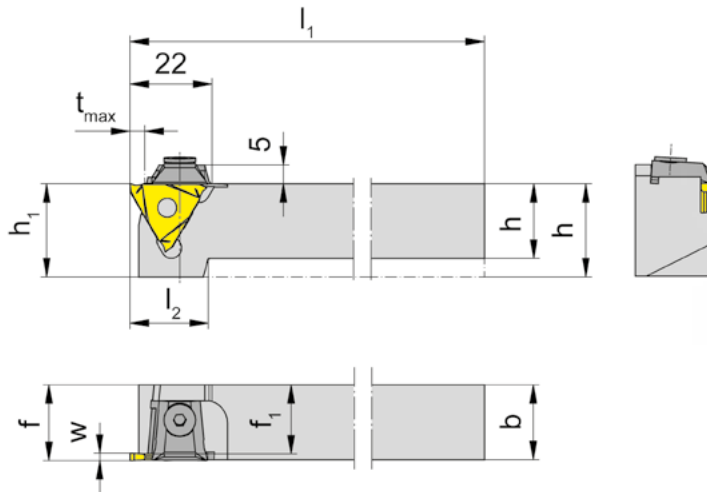
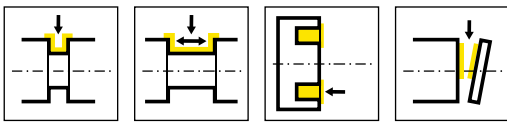
For the (w) and (a1) dimensions, see inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 40$ mm

Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L360....	11.3
R/L360...	16.4



R = right hand version shown

L = left hand version

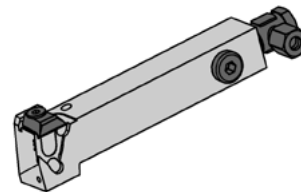
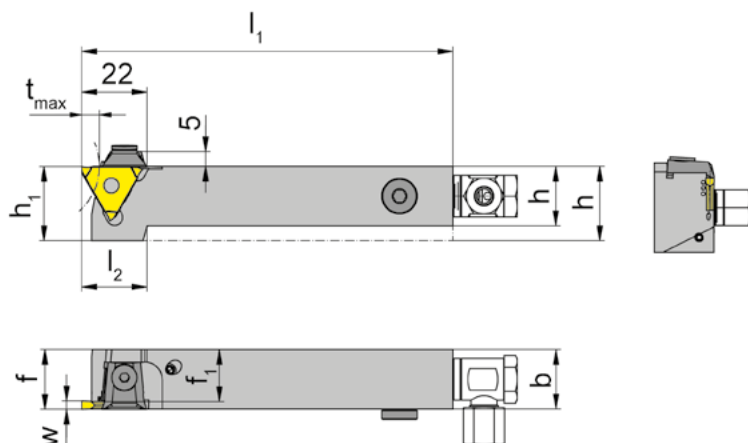
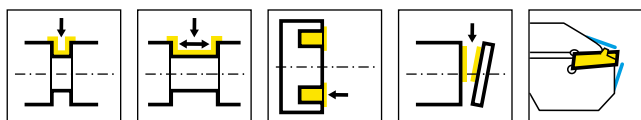
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R360.1212.03	12	12	100	24	25	8.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.1616.03	16	16	125	22	25	12.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.2020.03	20	20	125	21	25	16.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.1616.04	16	16	125	22	25	10.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
R360.2020.04	20	20	125	21	25	14.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
R360.2525.04	25	25	150	-	25	19.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
R360.3232.04	32	32	170	-	32	26.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
L360.1212.03	12	12	100	24	25	8.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.1616.03	16	16	125	22	25	12.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.2020.03	20	20	125	21	25	16.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.1616.04	16	16	125	22	25	10.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
L360.2020.04	20	20	125	21	25	14.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
L360.2525.04	25	25	150	-	25	19.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L
L360.3232.04	32	32	170	-	32	26.8	f ₁ +w-a ₁	6	31204N • 31204R • 31204L

For the (w) and (a₁) dimensions, see insertst_{max} can be reached only with workpiece Ø ≤ 40 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L360....	11.3
R/L360...	16.4
R/L360.1616.04	13.4



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R360.1212.01.IK	12	12	100	24	25	10.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.1616.01.IK	16	16	125	22	25	14.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.2020.01.IK	20	20	125	21	25	18.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.2525.01.IK	25	25	150	-	25	23.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.1212.02.IK	12	12	100	24	25	9.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.1616.02.IK	16	16	125	22	25	13.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.2020.02.IK	20	20	125	21	25	17.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
R360.2525.02.IK	25	25	150	-	25	22.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.1212.01.IK	12	12	100	24	25	10.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.1616.01.IK	16	16	125	22	25	14.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.2020.01.IK	20	20	125	21	25	18.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.2525.01.IK	25	25	150	-	25	23.5	$f_1 + w - a_1$	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.1212.02.IK	12	12	100	24	25	9.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.1616.02.IK	16	16	125	22	25	13.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.2020.02.IK	20	20	125	21	25	17.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L
L360.2525.02.IK	25	25	150	-	25	22.5	$f_1 + w - a_1$	6	31202N • 31202R • 31202L

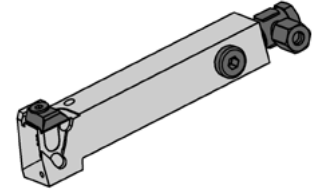
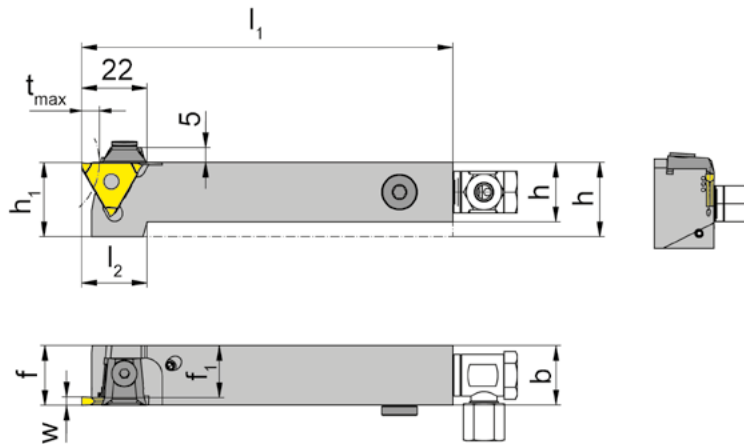
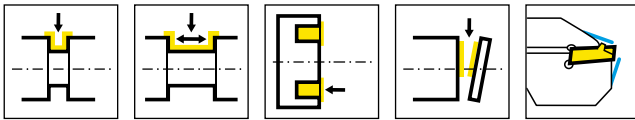
For the (w) and (a1) dimensions, see inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 40$ mm

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping element	Screw Plug
R/L360.1212....	004.00.22	11.3	
R/L360.1616....	004.00.16	11.3	004.00.26
R/L360....	004.00.16	16.4	004.00.26



P

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R360.1212.03.IK	12	12	100	24	25	8.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
R360.1616.03.IK	16	16	125	22	25	12.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
R360.2020.03.IK	20	20	125	21	25	16.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
R360.1616.04.IK	16	16	125	21	25	10.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L
R360.2020.04.IK	20	20	125	22	25	14.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L
R360.2525.04.IK	25	25	150	-	25	19.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L
L360.1212.03.IK	12	12	100	24	25	8.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
L360.1616.03.IK	16	16	125	22	25	12.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
L360.2020.03.IK	20	20	125	21	25	16.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
L360.2525.03.IK	25	25	150	-	25	21.5	$f_1 + w - a_1$	6	31203N • 31203R • 31203L
L360.1616.04.IK	16	16	125	21	25	10.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L
L360.2020.04.IK	20	20	125	22	25	14.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L
L360.2525.04.IK	25	25	150	-	25	19.8	$f_1 + w - a_1$	6	31204N • 31204R • 31204L

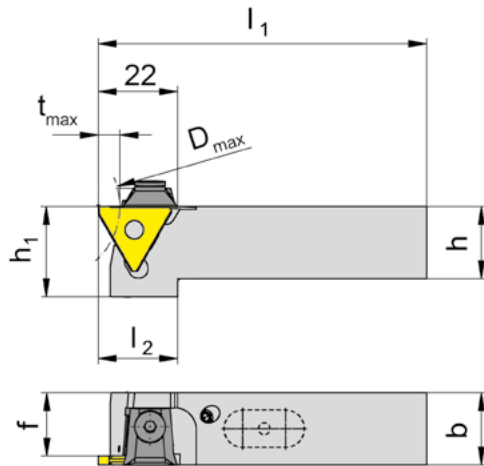
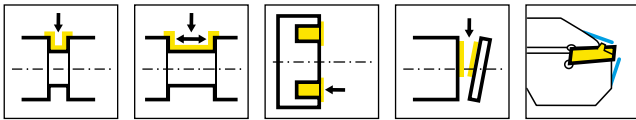
For the (w) and (a1) dimensions, see inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 40$ mm

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping element	Screw Plug
R/L360.1212.03.IK	004.00.22	11.3	
R/L360.1616.03.IK	004.00.16	11.3	004.00.26
R/L360....	004.00.16	16.4	004.00.26
L360.2525.03.IK	004.00.16	16.4	18.908
R/L360.1616.04.IK	004.00.16	13.4	004.00.26



R = right hand version shown

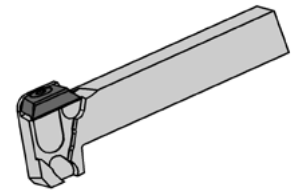
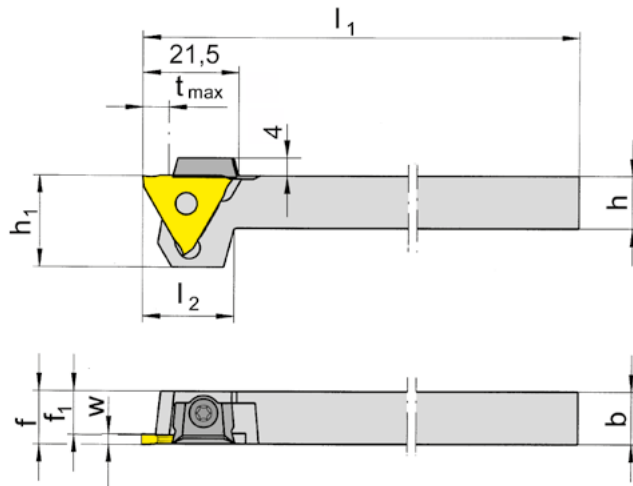
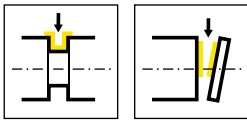
L = left hand version

Part number	h	b	l_1	l_2	h_1	f	D_{max}	t_{max}	HWS
R360.2020.5.01.IK	20	20	91	22	25	18.5	40	4	31201N • 31201R • 31201L • 31208N • 31211N
R360.2020.5.02.IK	20	20	91	22	25	17.5	40	6	31202N • 31202R • 31202L
R360.2020.5.03.IK	20	20	91	22	25	16.5	40	6	31203N • 31203R • 31203L
R360.2020.5.04.IK	20	20	91	22	25	14.8	40	6	31204N • 31204R • 31204L
L360.2020.5.01.IK	20	20	91	22	25	18.5	40	4	31201N • 31201R • 31201L • 31208N • 31211N
L360.2020.5.02.IK	20	20	91	22	25	17.5	40	6	31202N • 31202R • 31202L
L360.2020.5.03.IK	20	20	91	22	25	16.5	40	6	31203N • 31203R • 31203L
L360.2020.5.04.IK	20	20	91	22	25	14.8	40	6	31204N • 31204R • 31204L

Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L360...	16.4



P

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
R361.1212.01	12	12	100	17	19	10.5	f_1+w-a_1	4	31201N • 31201R • 31201L • 31208N • 31211N
R361.1212.02	12	12	100	17	19	9.5	f_1+w-a_1	6	31202N • 31202R • 31202L
R361.1212.03	12	12	100	21	21	8.5	f_1+w-a_1	6	31203N • 31203R • 31203L
L361.1212.01	12	12	100	17	19	10.5	f_1+w-a_1	4	31201N • 31201R • 31201L • 31208N • 31211N
L361.1212.02	12	12	100	17	19	9.5	f_1+w-a_1	6	31202N • 31202R • 31202L
L361.1212.03	12	12	100	21	21	8.5	f_1+w-a_1	6	31203N • 31203R • 31203L

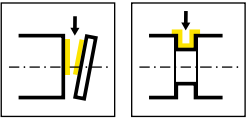
For the (w) and (a1) dimensions, see inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 40$ mm

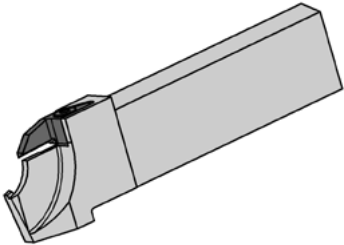
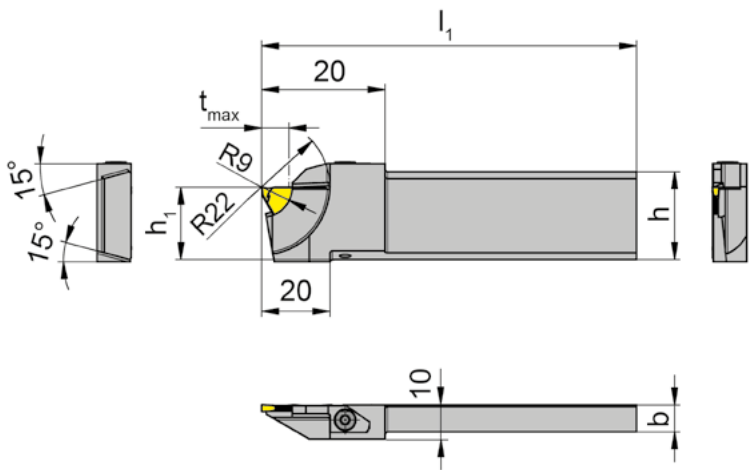
Dimensions in mm

Spare Parts

Toolholder	Clamping element	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L361...	12.3	030.0422.T10P	T10PL	3 Nm



P

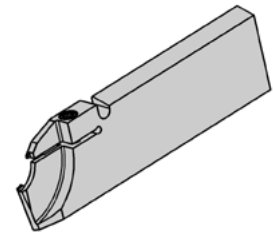
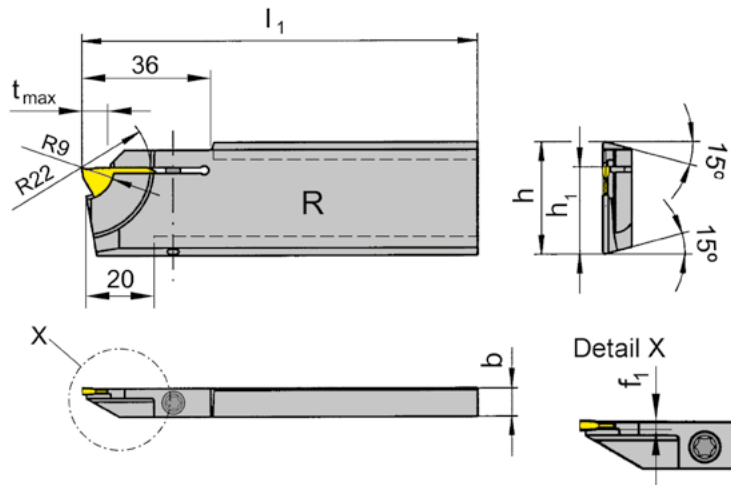
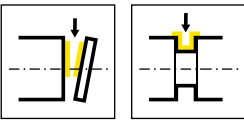


R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	HWS
R368.2608.10.01	26	8	110	21.2	31208N

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
R368.2608.10.01	010.0004.0536	T10PL



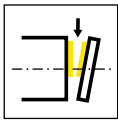
R = right hand version shown

L = left hand version

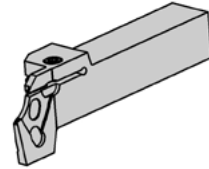
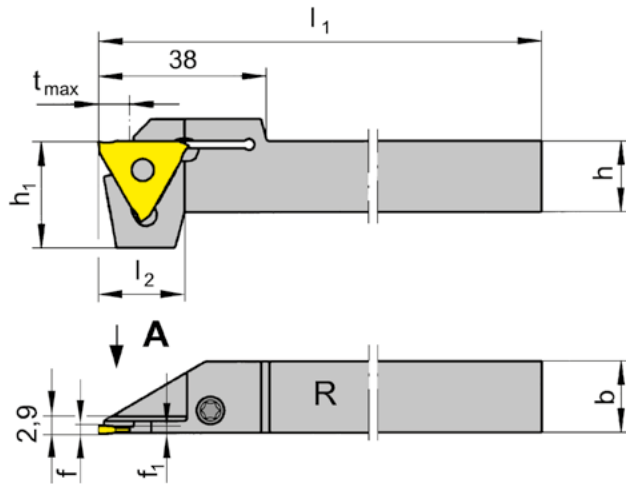
Part number	h	b	l_1	h_1	f_1	t_{max}	HWS
R368.2608.08	26	8	110	21.4	1	8	31208N
R368.3208.08	32	8	110	24.8	1	8	31208N
R368.2608.11	26	8	110	21.4	1.3	8	31211N
R368.3208.11	32	8	110	24.8	1.3	8	31211N
L368.2608.08	26	8	110	21.4	1	8	31208N
L368.3208.08	32	8	110	24.8	1	8	31208N
L368.2608.11	26	8	110	21.4	1.3	8	31211N
L368.3208.11	32	8	110	24.8	1.3	8	31211N

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L368...	4.15T15P	T15PQ	4 Nm



P



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R368.1212.08	12	12	95	19.5	24	1	f ₁ +a ₁	8	31208N
R368.1616.08	16	16	95	19.5	24	1	f ₁ +a ₁	8	31208N
R368.1212.11	12	12	95	19.5	24	1.3	f ₁ +a ₁	8	31211N
R368.1616.11	16	16	95	19.5	24	1.3	f ₁ +a ₁	8	31211N
L368.1212.08	12	12	95	19.5	24	1	f ₁ +a ₁	8	31208N
L368.1616.08	16	16	95	19.5	24	1	f ₁ +a ₁	8	31208N
L368.1212.11	12	12	95	19.5	24	1.3	f ₁ +a ₁	8	31211N
L368.1616.11	16	16	95	19.5	24	1.3	f ₁ +a ₁	8	31211N

for machines TRAUB (TNL12/7)

a1 see indexable inserts

Toolholder R/L368...08 for indexable inserts:

R/L312.0805... / R/L312.0808... / R/L312.0510... R/L312.0512... / R/L312.1210.../ R/L312.0012...

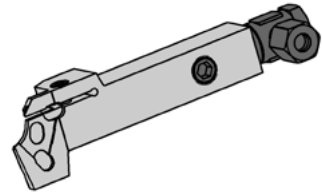
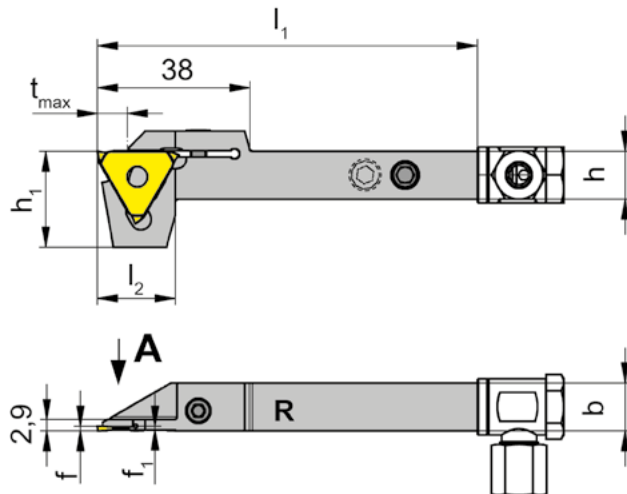
Toolholder R/L368...11 for indexable inserts:

R/L312.0515... / R/L312.0015...V1

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L368...	4.15T15P	T15PQ	4 Nm



P

R = right hand version shown

L = left hand version

Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R368.1212.08.IK	12	12	95	19.5	24	1	f ₁ +a ₁	8	31208N
R368.1616.08.IK	16	16	95	19.5	24	1	f ₁ +a ₁	8	31208N
R368.1212.11.IK	12	12	95	19.5	24	1.3	f ₁ +a ₁	8	31211N
R368.1616.11.IK	16	16	95	19.5	24	1.3	f ₁ +a ₁	8	31211N
L368.1212.08.IK	12	12	95	19.5	24	1	f ₁ +a ₁	8	31208N
L368.1616.08.IK	16	16	95	19.5	24	1	f ₁ +a ₁	8	31208N
L368.1212.11.IK	12	12	95	19.5	24	1.3	f ₁ +a ₁	8	31211N

for machines TRAUB (TNL12/7)

a1 see indexable inserts

Toolholder R/L368...08.IK for indexable inserts:

R/L312.0805... / R/L312.0808... / R/L312.0510... R/L312.0512... / R/L312.1210... / R/L312.0012...

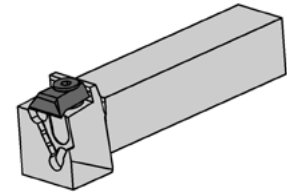
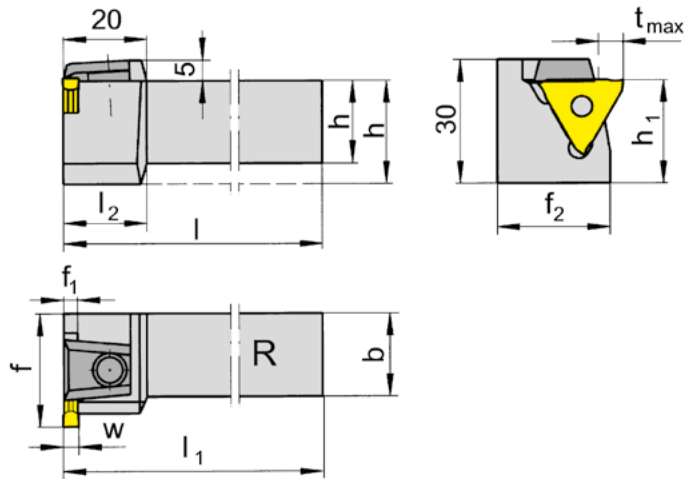
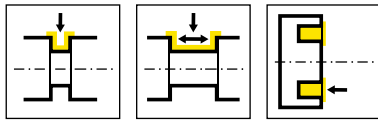
Toolholder R/L368...11.IK for indexable inserts

R/L312.0515... / R/L312.0015...V1

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
R/L368.1212...	4.15T15P	004.00.22	T15PQ	4 Nm
R/L368.1616.08.	4.15T15P	004.00.16	T15PQ	4 Nm
R368.1616.11.IK	4.15T15P	004.00.16	T15PQ	4 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l	l_1	l_2	h_1	f	t_{max}	f_1	f_2	HWS
R369.2020.01	20	20	125	$l-f_1+w-a_1$	20	25	27	4	1.5	23.5	31201N • 31201R • 31201L • 31208N • 31211N
R369.2020.02	20	20	125	$l-f_1+w-a_1$	20	25	27	6	2.5	23.5	31202N • 31202R • 31202L
R369.2525.01	25	25	150	$l-f_1+w-a_1$	-	25	32	4	1.5	28.5	31201N • 31201R • 31201L • 31208N • 31211N
R369.2525.02	25	25	150	$l-f_1+w-a_1$	-	25	32	6	2.5	28.5	31202N • 31202R • 31202L
R369.2020.03	20	20	125	$l-f_1+w-a_1$	20	25	27	6	3.5	23.5	31203N • 31203R • 31203L
R369.2525.03	25	25	150	$l-f_1+w-a_1$	-	25	32	6	3.5	28.5	31203N • 31203R • 31203L
R369.2020.04	20	20	125	$l-f_1+w-a_1$	20	25	27	6	4.5	23.5	31204N • 31204R • 31204L
R369.2525.04	25	25	150	$l-f_1+w-a_1$	-	25	32	6	4.5	28.5	31204N • 31204R • 31204L
L369.2020.01	20	20	125	$l-f_1+w-a_1$	20	25	27	4	1.5	23.5	31201N • 31201R • 31201L • 31208N • 31211N
L369.2020.02	20	20	125	$l-f_1+w-a_1$	20	25	27	6	2.5	23.5	31202N • 31202R • 31202L
L369.2525.01	25	25	150	$l-f_1+w-a_1$	-	25	32	4	1.5	28.5	31201N • 31201R • 31201L • 31208N • 31211N
L369.2525.02	25	25	150	$l-f_1+w-a_1$	-	25	32	6	2.5	28.5	31202N • 31202R • 31202L
L369.2020.03	20	20	125	$l-f_1+w-a_1$	20	25	27	6	3.5	23.5	31203N • 31203R • 31203L
L369.2525.03	25	25	150	$l-f_1+w-a_1$	-	25	32	6	3.5	28.5	31203N • 31203R • 31203L
L369.2020.04	20	20	125	$l-f_1+w-a_1$	20	25	27	6	4.5	23.5	31204N • 31204R • 31204L
L369.2525.04	25	25	150	$l-f_1+w-a_1$	-	25	32	6	4.5	28.5	31204N • 31204R • 31204L

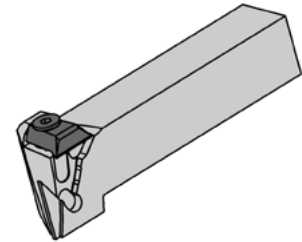
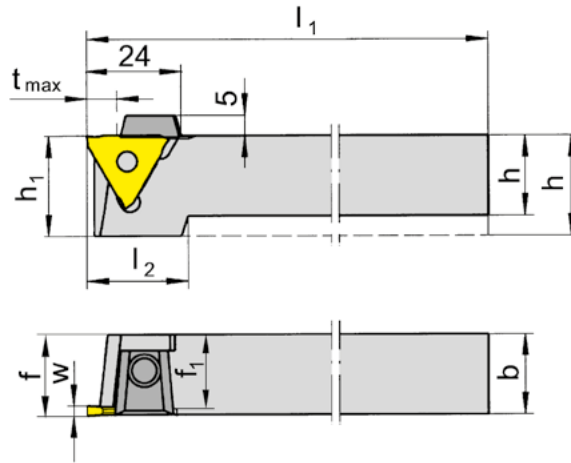
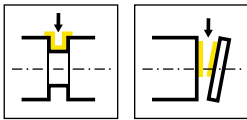
For the (w) and (a1) dimensions, see inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 40$ mm

Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L369...	16.4



P

R = right hand version shown

L = left hand version

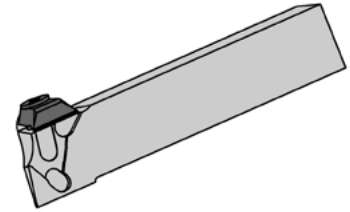
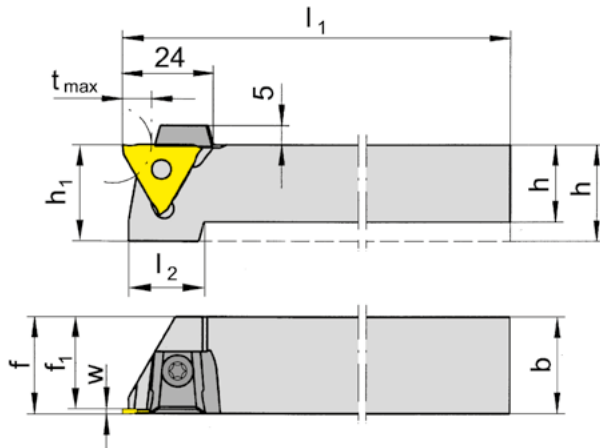
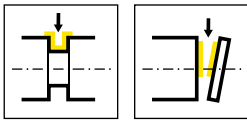
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R390.2020.01	20	20	125	22	25	18.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L
R390.2525.01	25	25	150	-	25	23.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L
R390.2020.02	20	20	125	22	25	17.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
R390.2525.02	25	25	150	-	25	22.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
R390.3232.02	32	32	170	-	32	29.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
R390.2020.03	20	20	125	22	25	16.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
R390.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
R390.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
R390.2020.04	20	20	125	22	25	14.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L
R390.2525.04	25	25	150	-	25	19.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L
R390.3232.04	32	32	170	-	32	26.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L
L390.2020.01	20	20	125	22	25	18.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L
L390.2525.01	25	25	150	-	25	23.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L
L390.2020.02	20	20	125	22	25	17.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
L390.2525.02	25	25	150	-	25	22.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
L390.3232.02	32	32	170	-	32	29.5	f ₁ +w-a ₁	8	31202N • 31202R • 31202L
L390.2020.03	20	20	125	22	25	16.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
L390.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
L390.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	8	31203N • 31203R • 31203L
L390.2020.04	20	20	125	22	25	14.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L
L390.2525.04	25	25	150	-	25	19.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L
L390.3232.04	32	32	170	-	32	26.8	f ₁ +w-a ₁	8	31204N • 31204R • 31204L

For the (w) and (a₁) dimensions, see insertst_{max} can be reached only with workpiece Ø ≤ 125 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L390...	16.4



R = right hand version shown

L = left hand version

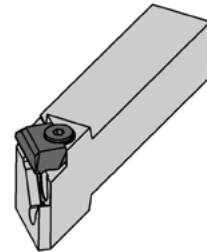
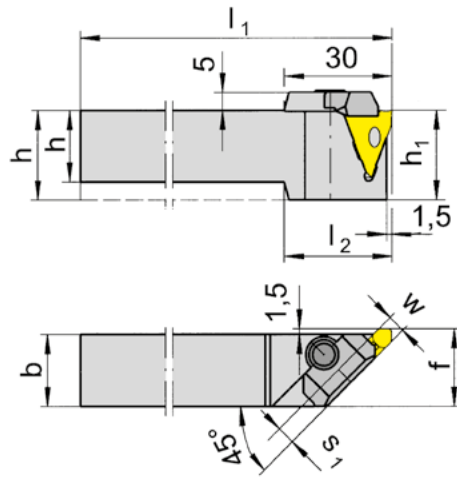
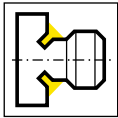
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R391.1212.01	12	12	100	21	21	10.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
R391.1616.01	16	16	125	21	21	14.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
R391.2020.01	20	20	125	21	21	18.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
R391.2525.01	25	25	150	-	25	23.8	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
L391.1212.01	12	12	100	21	21	10.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
L391.1616.01	16	16	125	21	21	14.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
L391.2020.01	20	20	125	21	21	18.5	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N
L391.2525.01	25	25	150	-	25	23.8	f ₁ +w-a ₁	8	31201N • 31201R • 31201L • 31208N • 31211N

For the (w) and (a₁) dimensions, see insertst_{max} can be reached only with workpiece Ø ≤ 20 mm

Dimensions in mm

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
R/L391.1212.01	12.3	T10PL
R/L391.1616.01	14.4	T15PQ
R/L391....	16.4	



P

R = right hand version shown

L = left hand version

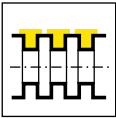
Part number	h	b	l_1	l_2	h_1	f	s_1	HWS
R309.1616.01	16	16	125	30	25	21.5	1.5	31201N • 31201R • 31201L
R309.2020.02	20	20	125	30	25	21.5	2.5	31202N • 31202R • 31202L
R309.2525.02	25	25	150	-	25	26.5	2.5	31202N • 31202R • 31202L
R309.3232.02	32	32	170	-	32	33.5	2.5	31202N • 31202R • 31202L
R309.2020.03	20	20	125	30	25	21.5	3.5	31203N • 31203R • 31203L
R309.2525.03	25	25	150	-	25	26.5	3.5	31203N • 31203R • 31203L
R309.3232.03	32	32	170	-	32	33.5	3.5	31203N • 31203R • 31203L
R309.2020.04	20	20	125	30	25	21.5	5.2	31204N • 31204R • 31204L
R309.2525.04	25	25	150	-	25	26.5	5.2	31204N • 31204R • 31204L
R309.3232.04	32	32	170	-	32	33.5	5.2	31204N • 31204R • 31204L
L309.1616.01	16	16	125	30	25	21.5	1.5	31201N • 31201R • 31201L
L309.2020.02	20	20	125	30	25	21.5	2.5	31202N • 31202R • 31202L
L309.2525.02	25	25	150	-	25	26.5	2.5	31202N • 31202R • 31202L
L309.2020.03	20	20	125	30	25	21.5	3.5	31203N • 31203R • 31203L
L309.2525.03	25	25	150	-	25	26.5	3.5	31203N • 31203R • 31203L
L309.3232.03	32	32	170	-	32	33.5	3.5	31203N • 31203R • 31203L
L309.2020.04	20	20	125	30	25	21.5	5.2	31204N • 31204R • 31204L
L309.2525.04	25	25	150	-	25	26.5	5.2	31204N • 31204R • 31204L

For the (w) dimension, see inserts

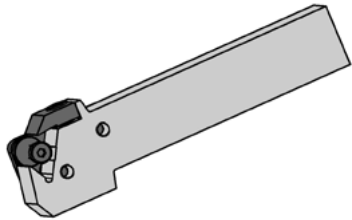
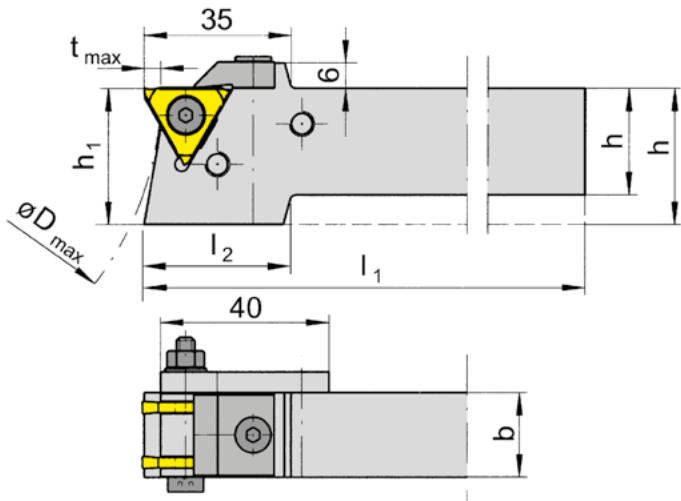
Dimensions in mm

Spare Parts

Toolholder	Clamping element
R/L309...	21.4



P



Part number	h	b	l ₁	l ₂	h ₁	D _{max}	t _{max}	HWS
340.2020.01	20	20	170	35	32	160	4	31201N
340.2520.01	25	20	170	35	32	160	4	31201N
340.3220.01	32	20	170	-	32	160	4	31201N

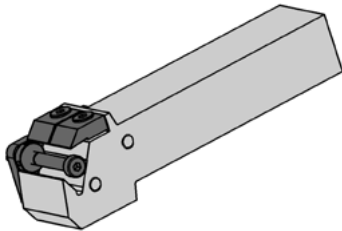
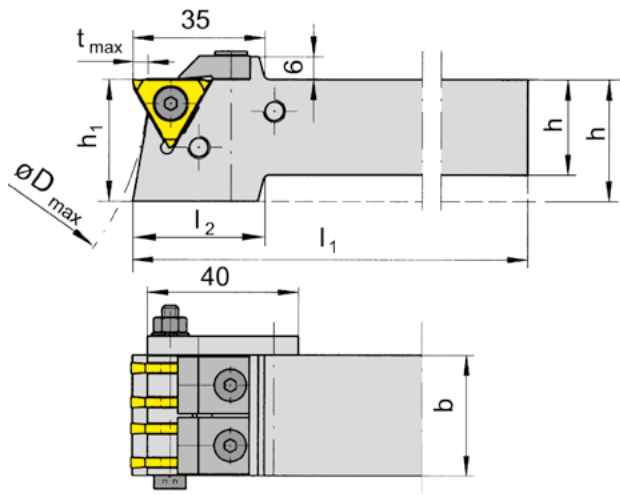
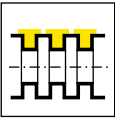
Only usable with special inserts type 312

Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Flange	Clamping element	Torque Value
340...	5.30.7984	24.40	340.0200	-



Right hand mounted

Part number	h	b	l ₁	l ₂	h ₁	D _{max}	t _{max}	HWS
340.2532.02	25	32	170	35	32	160	4	31202N

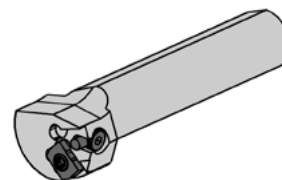
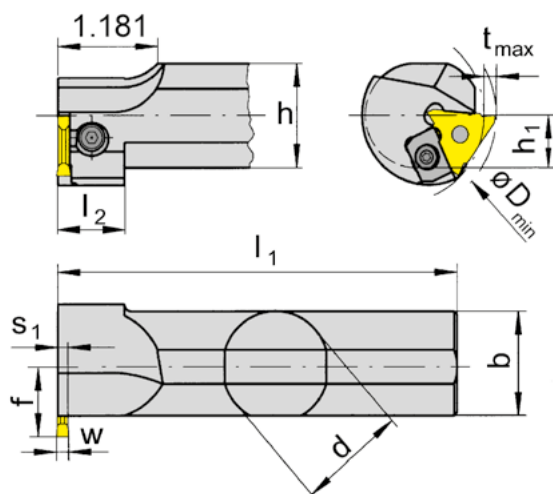
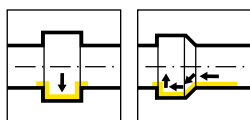
Only usable with special inserts type 312

Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Flange	Package screw	Clamping element	Torque Value
340.2532.02	6.16.7991	24.40	5.40.7984	22.16	-



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	s ₁	h ₁	f	D _{min}	b	HWS
RU330.1000.01	1.000	11.732	.787	.921	.059	.461	.787	1.811	1.000	31201L • 31201R • 31201N
RU330.1250.01	1.250	14.016	.787	1.173	.059	.587	.787	1.811	1.176	31201L • 31201R • 31201N
RU330.1500.01	1.500	15.748	.787	1.425	.059	.713	.945	1.811	1.459	31201L • 31201R • 31201N
RU330.1000.K2	1.000	6.614	.787	.921	.098	.461	.787	1.811	1.000	31202L • 31202R • 31202N
RU330.1250.K2	1.250	7.992	.787	1.173	.098	.586	.787	1.811	1.176	31202L • 31202R • 31202N
RU330.1500.K2	1.500	10.000	.787	1.421	.098	.711	.945	1.811	1.496	31202L • 31202R • 31202N
RU330.1000.K3	1.000	6.614	.787	.921	.138	.461	.787	1.811	1.000	31203L • 31203R • 31203N
RU330.1250.K3	1.250	7.992	.787	1.173	.137	.586	.787	1.811	1.176	31203L • 31203R • 31203N
RU330.1500.K3	1.500	10.000	.787	1.425	.138	.713	.945	1.811	1.459	31203L • 31203R • 31203N
RU330.1000.K4	1.000	6.614	.787	.921	.217	.461	.787	1.811	1.000	31204L • 31204R • 31204N
RU330.1250.K4	1.250	7.992	.787	1.173	.217	.587	.787	1.811	1.176	31204L • 31204R • 31204N
RU330.1500.K4	1.500	10.000	.787	1.425	.217	.713	.945	1.811	1.459	31204L • 31204R • 31204N
LU330.1250.01	1.250	14.016	.787	1.173	.059	.587	.787	1.811	1.176	31201L • 31201R • 31201N
LU330.1500.01	1.500	15.748	.787	1.425	.059	.713	.945	1.811	1.459	31201L • 31201R • 31201N
LU330.1000.K2	1.000	6.614	.787	.921	.098	.461	.787	1.811	1.000	31202L • 31202R • 31202N
LU330.1250.K2	1.250	7.992	.787	1.173	.098	.586	.787	1.811	1.176	31202L • 31202R • 31202N
LU330.1500.K2	1.500	10.000	.787	1.421	.098	.711	.945	1.811	1.459	31202L • 31202R • 31202N
LU330.1000.K3	1.000	6.614	.787	.921	.138	.461	.787	1.811	1.000	31203L • 31203R • 31203N
LU330.1250.K3	1.250	7.992	.787	1.171	.137	.586	.787	1.811	1.171	31203L • 31203R • 31203N
LU330.1500.K3	1.500	10.000	.787	1.425	.138	.713	.945	1.811	1.459	31203L • 31203R • 31203N
LU330.1000.K4	1.000	6.614	.787	.921	.217	.461	.787	1.811	1.000	31204L • 31204R • 31204N
LU330.1250.K4	1.250	7.992	.787	1.173	.217	.587	.787	1.811	1.176	31204L • 31204R • 31204N
LU330.1500.K4	1.500	10.000	.787	1.425	.217	.713	.945	1.811	1.459	31204L • 31204R • 31204N

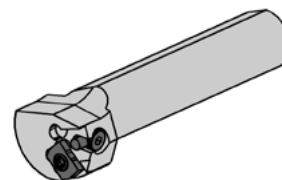
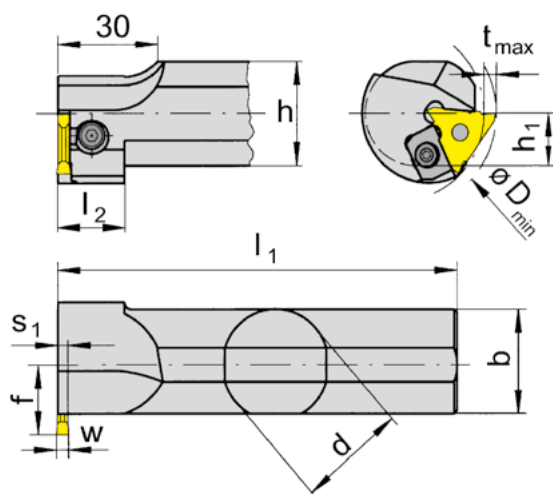
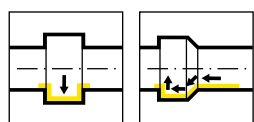
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Basic toolholder	Clamping element	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LU330....	15.4	5.12T20P	T20PQ	6.5 Nm



P

R = right hand version shown

L = left hand version

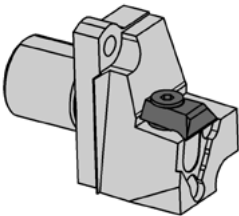
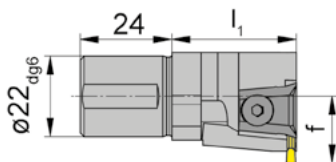
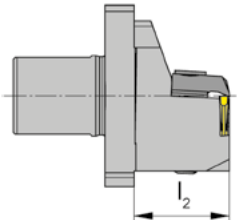
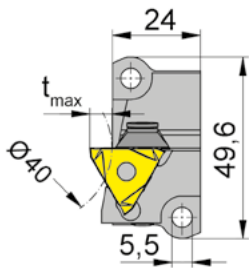
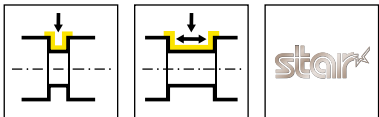
Part number	d	l ₁	l ₂	h	s ₁	h ₁	f	D _{min}	b	HWS
R330.0025.K2	25	170	20	23	2.5	11.5	20	46	25	31202N • 31202R • 31202L
R330.0032.K2	32	200	20	30	2.5	15	20	46	30	31202N • 31202R • 31202L
R330.0040.K2	40	250	-	38	2.5	19	24	46	38	31202N • 31202R • 31202L
R330.0025.K3	25	170	20	23	3.5	11.5	20	46	25	31203N • 31203R • 31203L
R330.0032.K3	32	200	20	30	3.5	15	20	46	30	31203N • 31203R • 31203L
R330.0040.K3	40	250	-	38	3.5	19	24	46	38	31203N • 31203R • 31203L
R330.0025.K4	25	170	20	23	5.5	11.5	20	46	25	31204N • 31204R • 31204L
R330.0032.K4	32	200	20	30	5.5	15	20	46	30	31204N • 31204R • 31204L
R330.0040.K4	40	250	-	38	5.5	19	24	46	38	31204N • 31204R • 31204L
L330.0025.K2	25	170	20	23	2.5	11.5	20	46	25	31202N • 31202R • 31202L
L330.0032.K2	32	200	20	30	2.5	15	20	46	30	31202N • 31202R • 31202L
L330.0040.K2	40	250	-	38	2.5	19	24	46	38	31202N • 31202R • 31202L
L330.0025.K3	25	170	20	23	3.5	11.5	20	46	25	31203N • 31203R • 31203L
L330.0032.K3	32	200	20	30	3.5	15	20	46	30	31203N • 31203R • 31203L
L330.0040.K3	40	250	-	38	3.5	19	24	46	38	31203N • 31203R • 31203L
L330.0025.K4	25	170	20	23	5.5	11.5	20	46	25	31204N • 31204R • 31204L
L330.0032.K4	32	200	20	30	5.5	15	20	46	30	31204N • 31204R • 31204L
L330.0040.K4	40	250	20	38	5.5	19	24	46	38	31204N • 31204R • 31204L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L330...	5.12T20P	15.4	T20PQ	6.5 Nm



L = left hand version shown

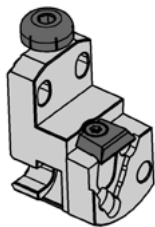
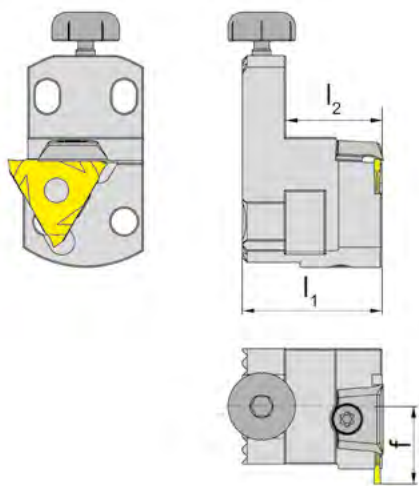
Part number	l_2	f	t_{max}	l_1	HWS	HMS
L369.A022.18.01	26	18.2	4	34	31201N • 31201R • 31201L • 31208N • 31211N	Star
L369.A022.18.02	26	18.2	6	34	31202N • 31202R • 31202L	Star

For Star Machines:
ECAS-12/20, SB16D/E, SR-20, SR20J/JN, RS-20RII, RS-20RIII, RS-20RIV, RS-32J/JN, SW-12RII

Dimensions in mm

Spare Parts

Toolholder	Clamping element
L369...	16.4



R = right hand version shown

L = left hand version

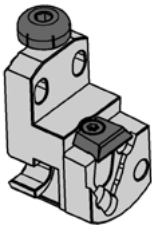
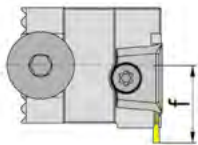
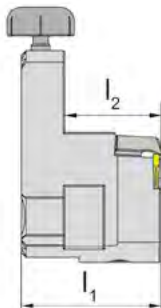
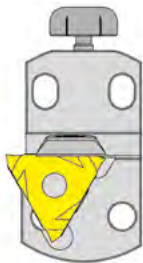
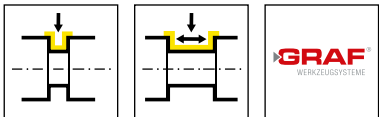
Part number	l_1	l_2	f	HWS
R.64	29	20	16	31201N • 31201R • 31201L • 31208N • 31211N
R.65	29	20	16	31202N • 31202R • 31202L
R.64.IK	40	12	16	31201N • 31201R • 31201L • 31208N • 31211N
R.65.IK	40	12	16	31202N • 31202R • 31202L
L.64	29	20	16	31201N • 31201R • 31201L • 31208N • 31211N
L.65	29	20	16	31202N • 31202R • 31202L
L.64.IK	40	12	16	31201N • 31201R • 31201L • 31208N • 31211N
L.65.IK	40	12	16	31202N • 31202R • 31202L

Dimensions in mm

Spare Parts

Cartridge Graf	Clamping element	Coolant supply
R/L....	12.3	
R/L....	4.082.L	004.00.19

P

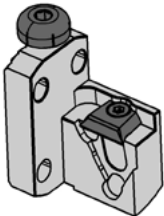
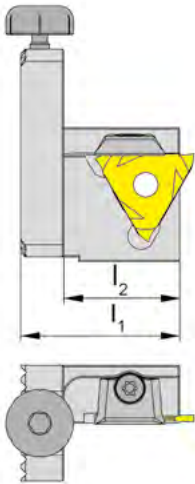
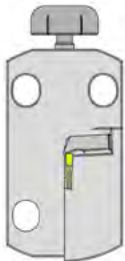
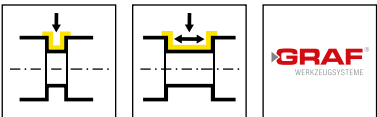


R = right hand version shown

L = left hand version

Part number	l_1	l_2	f	HWS
R.99	29	20	16	31203N • 31203R • 31203L
L.99	29	20	16	31203N • 31203R • 31203L

Dimensions in mm



P

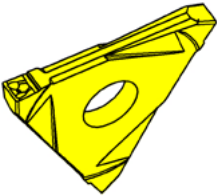
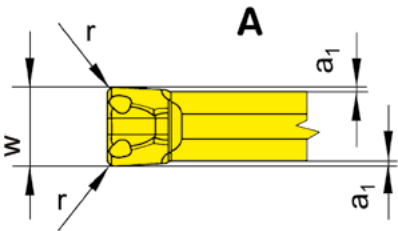
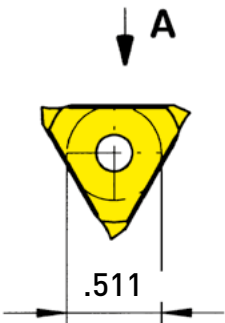
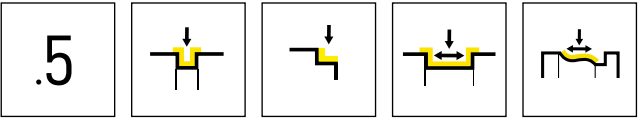
Part number	l_1	l_2	HWS
N.67	33	29	31201N • 31201R • 31201L • 31208N • 31211N
N.68	33	29	31202N • 31202R • 31202L

Dimensions in mm

Spare Parts

Adjustable holder	Clamping element
N.67	12.3
N.68	

P



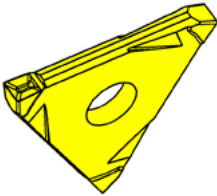
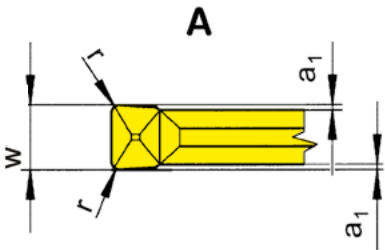
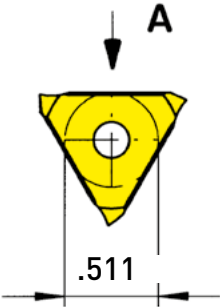
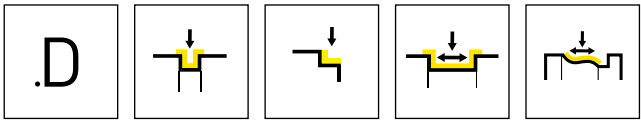
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS	TF46	
US312.0094.58	.094	.008	.010	31202N	▲	
US312.0125.58	.125	.008	.010	31203N	▲	
Dimensions in inch					P	O
					M	-
					K	-
					N	-
					S	-
					H	-





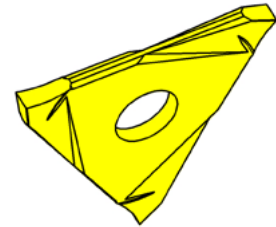
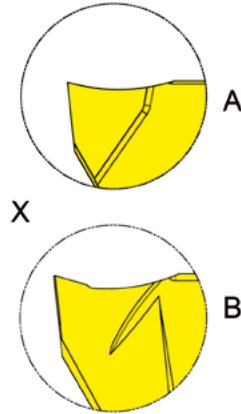
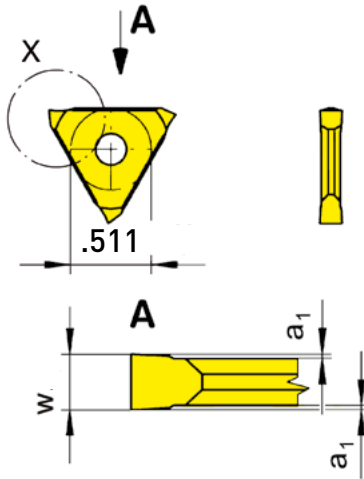
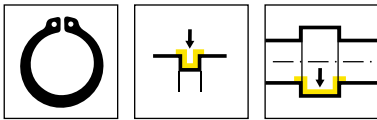
P

Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	a ₁	HIS		TF45	TF46	TI25
US312.0094.D16	.094	.016	.010	31202N				▲
US312.0094.D8	.094	.008	.010	31202N			▲	
US312.0125.D8	.125	.008	.014	31203N		▲	▲	
Dimensions in inch					P	o	o	●
					M	-	-	●
					K	-	-	-
					N	-	-	o
					S	-	-	-
					H	-	-	-





Coating grades

Form A = completely ground

Form B = partially ground

▲ In stock

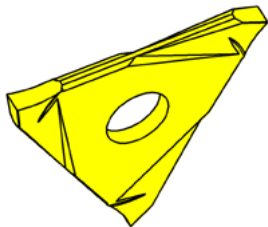
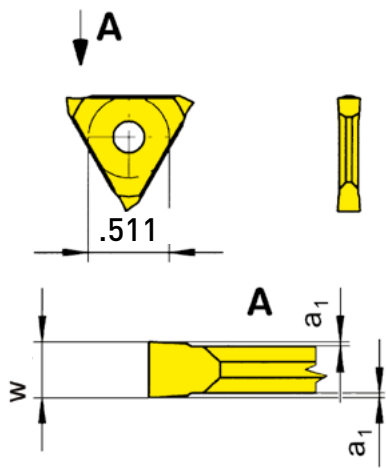
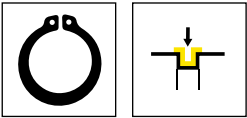
△ 2 weeks

Part number	w	a ₁	HIS		MG12	TF45	TF46	TI25	TN32	TN35
U312.0026.00	.026	.003	31201N				▲	▲		
U312.0031.00	.031	.003	31201N	▲	▲	▲	▲	▲		
U312.0034.00	.034	.003	31201N				△			
U312.0040.00	.040	.003	31201N	▲		▲	▲	▲	▲	
U312.0046.00	.046	.008	31201N			▲	▲	▲		
U312.0056.00	.056	.008	31201N	▲		▲	▲	▲		
U312.0062.00	.062	.008	31201N			▲	▲	▲	▲	▲
U312.0078.00	.078	.008	31201N	▲	▲	▲	▲	▲	▲	
U312.0088.00	.088	.008	31202N			▲	▲	▲		
U312.0094.00	.094	.008	31202N			▲	▲			
U312.0125.00	.125	.008	31203N	▲	▲	▲	▲		▲	
U312.0157.00	.157	.008	31204N			▲	▲	▲		
U312.0188.00	.188	.008	31204N				▲			
U312.0250.00	.250	.008	31204N					▲		

Dimensions in inch



P	-	o	o	•	•	•
M	-	-	-	•	-	-
K	-	-	-	-	•	•
N	•	-	-	o	-	-
S	-	-	-	-	-	-
H	-	-	-	-	-	-



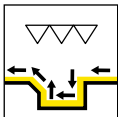
P

Coating grades

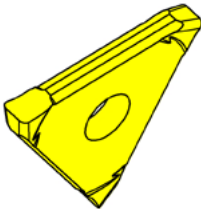
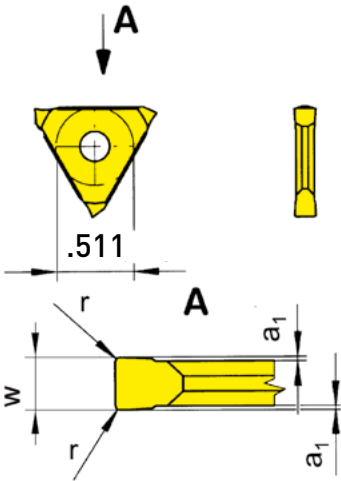
▲ In stock Δ 2 weeks

Part number	w	a ₁	HIS	TN35	
U312.0062.80	.062	.008	31201N	▲	
Dimensions in inch				P	●
				M	-
				K	●
				N	-
				S	-
				H	-





P



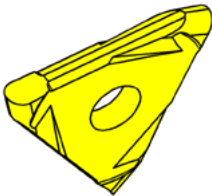
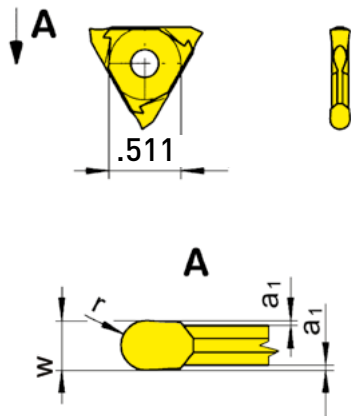
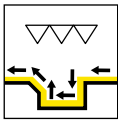
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS		MG12	TF46	Ti25
U312.0062.08	.062	.008	.010	31201N			▲	▲
U312.0094.08	.094	.008	.010	31202N	▲	▲	▲	▲
U312.0094.16	.094	.016	.010	31202N		▲	▲	
U312.0094.32	.094	.031	.010	31202N		▲	▲	
U312.0125.08	.125	.008	.010	31203N		▲	▲	
U312.0125.16	.125	.016	.010	31203N		▲	▲	
U312.0250.08	.250	.008	.010	31204N		▲	▲	
Dimensions in inch					P	-	o	●
					M	-	-	●
					K	-	-	-
					N	●	-	o
					S	-	-	-
					H	-	-	-



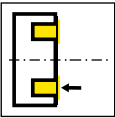


Coating grades

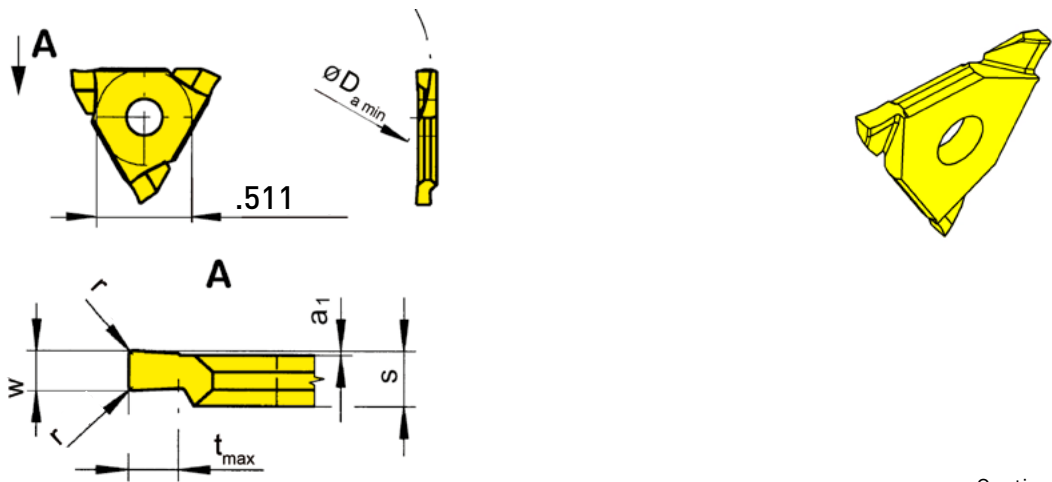
▲ In stock Δ 2 weeks

Part number	w	r	a ₁	HIS		TF46	TI22	TN32
U312.0031.62	.062	.031	.010	31201N		▲	▲	
U312.0039.78	.078	.039	.010	31201N		▲	▲	
U312.0047.94	.094	.047	.010	31202N		▲	▲	
U312.0062.12	.125	.063	.010	31203N		▲	▲	▲
Dimensions in inch					P	o	•	•
					M	-	•	-
					K	-	-	•
					N	-	o	-
					S	-	-	-
					H	-	-	-





P



Coating grades

R = right hand version shown

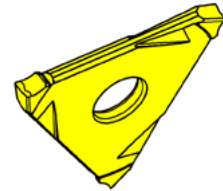
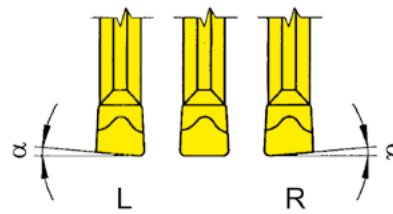
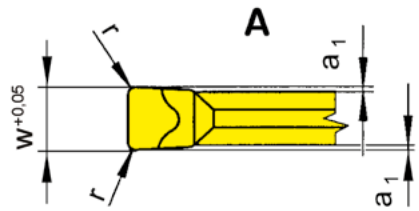
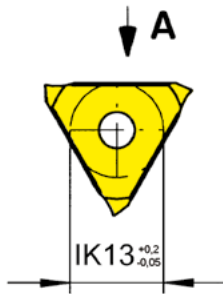
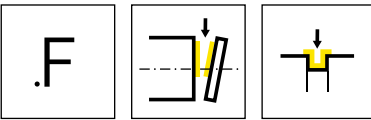
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	a ₁	s	r	D _{a min}	HIS	TN35
RU312.2062.08	.062	.079	.008	.106	.008	.787	31203R	▲
RU312.3094.08	.094	.118	.008	.146	.008	1.181	31203R	Δ
RU312.3125.08	.125	.118	.008	.146	.008	1.181	31203R	▲
LU312.2062.08	.062	.079	.008	.106	.008	.787	31203L	▲
LU312.3094.08	.094	.118	.008	.146	.008	1.181	31203L	Δ
LU312.3125.08	.125	.118	.008	.146	.008	1.181	31203L	▲
Dimensions in inch								P ●
								M -
								K ●
								N -
								S -
								H -





P

Coating grades

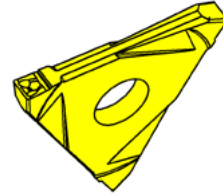
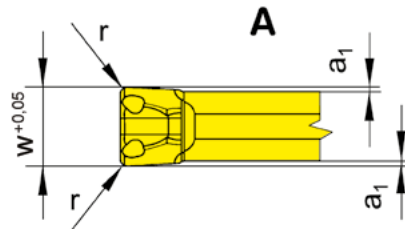
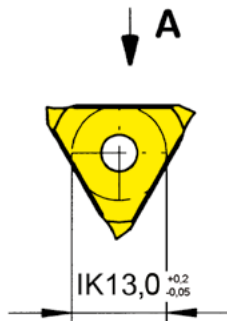
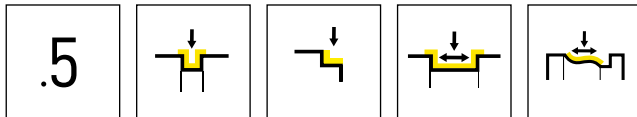
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	α	a ₁	HIS		EG56	TF45	TF46	TI25
RS312.0520.F2	2	0.2	5°	0.25	31202N		Δ		▲	▲
LS312.0520.F2	2	0.2	5°	0.25	31202N		Δ		▲	▲
S312.0200.F2	2	0.2	0°	0.25	31202N		▲	Δ	▲	▲
S312.0250.F2	2.5	0.2	0°	0.25	31202N		Δ	Δ	▲	▲
S312.0400.F2	4	0.2	0°	0.25	31204N		Δ		▲	Δ
S312.0400.F4	4	0.4	0°	0.25	31204N		▲		▲	▲
S312.0500.F2	5	0.2	0°	0.25	31204N		▲		▲	
S312.0500.F4	5	0.4	0°	0.25	31204N		Δ		▲	
Dimensions in mm						P	●	○	○	●
						M	○	-	-	●
						K	○	-	-	-
						N	-	-	-	○
						S	-	-	-	-
						H	-	-	-	-

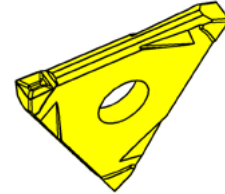
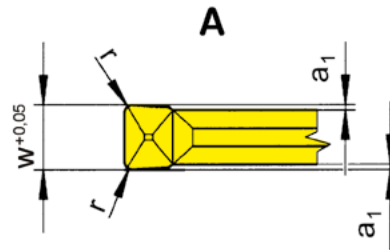
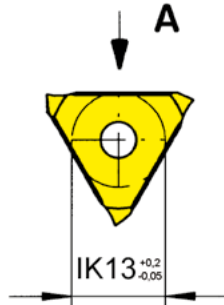
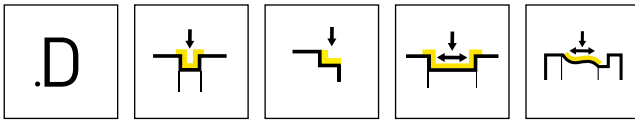


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS		AS62	AS66	EG56	TF45	TF46	TI25
S312.0250.52	2.5	0.2	0.25	31202N		▲	▲	▲	▲	▲	▲
S312.0250.54	2.5	0.4	0.25	31202N		▲	▲	▲	▲	▲	▲
S312.0300.52	3	0.2	0.25	31203N		▲	▲	▲	▲	▲	▲
S312.0300.54	3	0.4	0.25	31203N		▲	▲	▲	Δ	▲	▲
S312.0400.52	4	0.2	0.25	31204N		▲	▲	▲		▲	▲
S312.0400.54	4	0.4	0.25	31204N		▲	▲	▲		▲	▲
S312.0500.52	5	0.2	0.25	31204N		▲	▲	▲		▲	Δ
S312.0500.54	5	0.4	0.25	31204N		▲	▲	Δ		▲	▲
Dimensions in mm					P	●	●	●	○	○	●
					M	○	●	○	-	-	●
					K	○	○	○	-	-	-
					N	-	-	-	-	-	○
					S	-	-	-	-	-	-
					H	-	-	-	-	-	-



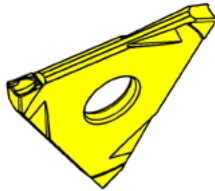
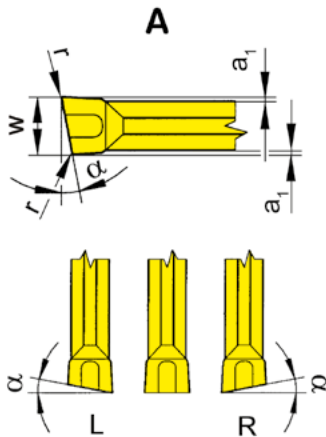
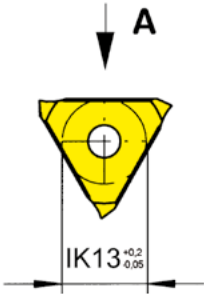
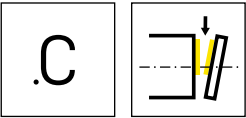
P

Coating grades

▲ In stock

△ 2 weeks

Part number	w	r	a ₁	HIS	AS62	AS66	EG56	TF45	TF46	TI25	TN32
S312.0200.D2	2	0.2	0.25	31202N	▲	▲	▲	△	▲	▲	▲
S312.0200.D4	2	0.4	0.25	31202N	▲	▲	▲	△	△	▲	▲
S312.0250.D2	2.5	0.2	0.25	31202N	▲	▲	▲	▲	▲	▲	▲
S312.0250.D4	2.5	0.4	0.25	31202N	▲	▲	▲	▲	▲	▲	▲
S312.0300.D2	3	0.2	0.25	31203N	▲	▲	▲	▲	▲	▲	▲
S312.0300.D4	3	0.4	0.25	31203N	▲	▲	▲	△	△	△	▲
Dimensions in mm					P	●	●	●	○	○	●
					M	○	●	○	-	-	●
					K	○	○	○	-	-	●
					N	-	-	-	-	○	-
					S	-	-	-	-	-	-
					H	-	-	-	-	-	-



Coating grades

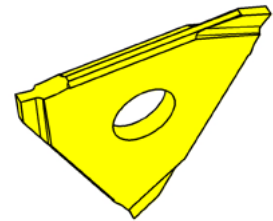
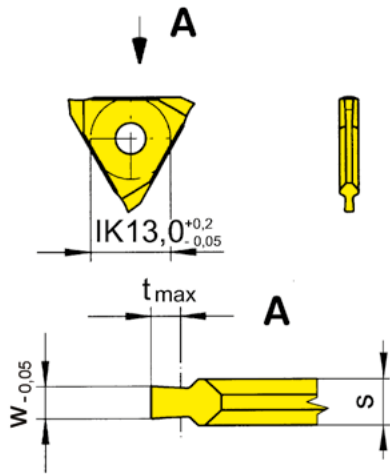
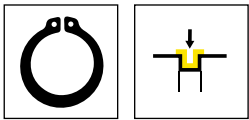
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	a	a ₁	HIS	EG55	TF46	Ti25
RS312.0520.C2	2	0.2	5°	0.25	31202N	▲	▲	▲
RS312.0525.C2	2.5	0.2	5°	0.25	31202N	Δ	▲	▲
LS312.0520.C2	2	0.2	5°	0.25	31202N	▲	▲	▲
LS312.0525.C2	2.5	0.2	5°	0.25	31202N		Δ	▲
S312.0200.C2	2	0.2	0°	0.25	31202N	▲	▲	▲
S312.0250.C2	2.5	0.2	0°	0.25	31202N	▲	▲	▲
S312.0300.C2	3	0.2	0°	0.25	31203N	Δ	▲	▲
Dimensions in mm						P	●	●
						M	●	●
						K	○	-
						N	-	○
						S	-	-
						H	-	-

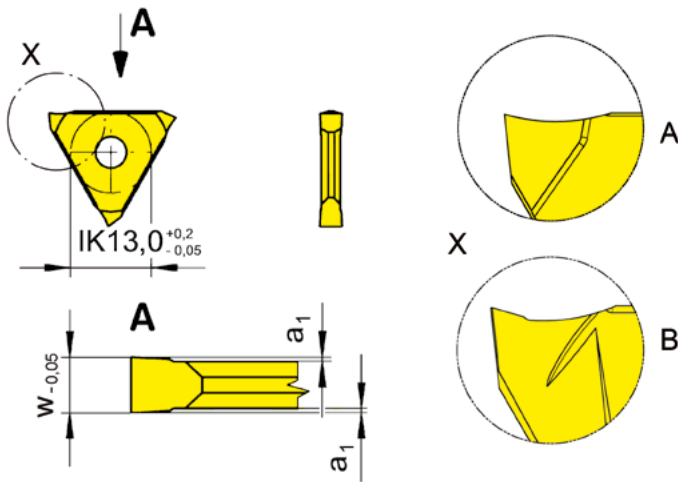
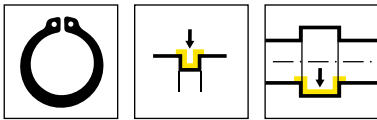


P

Coating grades

▲ In stock Δ 2 weeks

Part number	w	Nw	t _{max}	s	HIS		EG35	EG52	TN32
312.0034.15	0.38	0.34	0.6	1.5	31201N		Δ		
312.0044.15	0.44	0.4	0.7	1.5	31201N		Δ		
312.0050.15	0.57	0.5	0.7	1.5	31201N			▲	▲
312.0060.15	0.67	0.6	0.8	1.5	31201N			▲	▲
312.0070.15	0.77	0.7	1.1	1.5	31201N			▲	▲
312.0080.15	0.87	0.8	1.2	1.5	31201N			▲	▲
312.0090.15	0.97	0.9	1.4	1.5	31201N			▲	▲
312.0100.15	1.07	1	1.6	1.5	31201N			▲	▲
Widths for circlip grooves DIN 471/472							P	●	●
Dimensions in mm							M	●	○
							K	○	-
							N	-	-
							S	-	-
							H	-	-



Coating grades

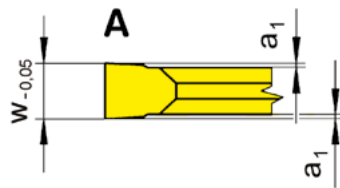
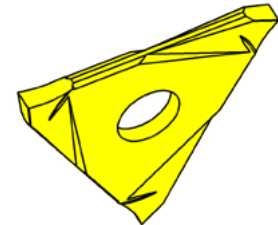
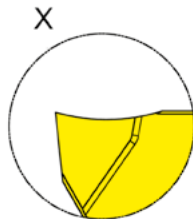
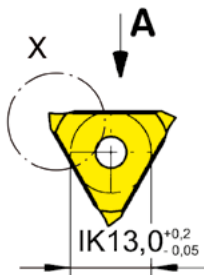
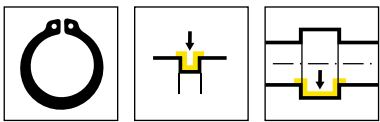
Form A = completely ground

Form B = partially ground

▲ In stock

△ 2 weeks

Part number	w	Nw	a ₁	Form	HIS		K10	MG12	P20	EG35	EG55	TC92	TF45	TF46	TI25	TN32	TN35	H20
R/L/312.0515.00	5.29	5.15	0.2	B	31204N							△						△
312.0050.00	0.57	0.5	0.07	A	31201N		▲		▲		▲		▲	▲		▲		
312.0060.00	0.67	0.6	0.07	A	31201N		▲		▲		▲		▲	▲		▲		
312.0070.00	0.77	0.7	0.08	A	31201N		▲		▲		▲		▲	▲		▲		
312.0080.00	0.87	0.8	0.08	A	31201N		▲		▲		▲		▲	▲		▲		
312.0090.00	0.97	0.9	0.08	A	31201N		▲		▲		▲		▲	▲		▲	▲	
312.0100.00	1.07	1	0.09	A	31201N		▲		▲		▲		▲	▲		▲	▲	
312.0110.00	1.24	1.1	0.2	A	31201N		▲		▲		▲	▲	▲	▲		▲	▲	
312.0130.00	1.44	1.3	0.2	A	31201N		▲		▲		▲	▲	▲	▲		▲	▲	
312.0160.00	1.74	1.6	0.2	A	31201N		▲		▲		▲	▲	▲	▲		▲	▲	
312.0185.00	1.99	1.85	0.2	B	31201N		▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▲
312.0215.00	2.29	2.15	0.2	B	31202N		▲	▲	▲		▲	▲	▲	▲		▲	▲	▲
312.0265.00	2.79	2.65	0.2	B	31202N		▲	▲	▲		▲	▲	▲	▲		▲	▲	▲
312.0315.00	3.29	3.15	0.2	B	31203N		▲		▲		▲	▲	▲	▲		▲	▲	▲
312.0415.00	4.29	4.15	0.2	B	31204N		▲		▲		▲	▲	▲	▲		▲	▲	
Widths for circlip grooves DIN 471/472						P	●	-	●	●	●	●	○	○	●	●	●	●
Dimensions in mm						M	●	-	-	●	●	-	-	-	●	-	-	○
						K	-	-	-	○	○	-	-	-	-	●	●	-
						N	-	●	-	-	-	-	-	-	○	-	-	-
						S	●	-	-	-	-	-	-	-	-	-	-	-
						H	-	-	-	-	-	-	-	-	-	-	-	-



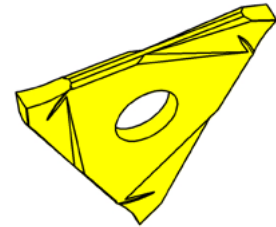
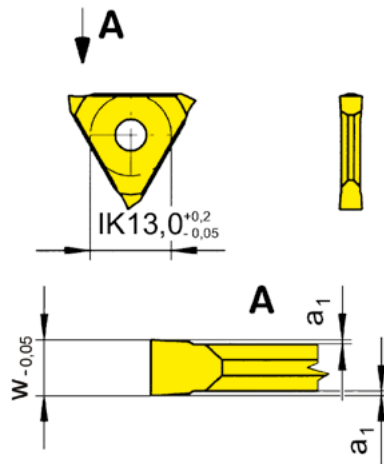
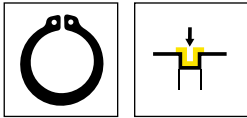
Coating grades

completely ground

▲ In stock

Δ 2 weeks

Part number	w	Nw	a ₁	HIS		K10	P20	EG56	TN32
312.0185.10	1.99	1.85	0.2	31201N		Δ	▲	Δ	▲
312.0215.10	2.29	2.15	0.2	31202N		▲	Δ	▲	
312.0265.10	2.79	2.65	0.2	31202N		▲	▲	Δ	
312.0315.10	3.29	3.15	0.2	31203N		▲		Δ	
312.0415.10	4.29	4.15	0.2	31204N		▲	▲	▲	
Widths for circlip grooves DIN 471/472					P	●	●	●	●
Dimensions in mm					M	●	-	○	-
					K	-	-	○	●
					N	-	-	-	-
					S	●	-	-	-
					H	-	-	-	-



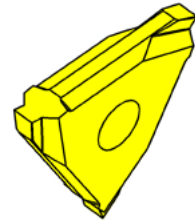
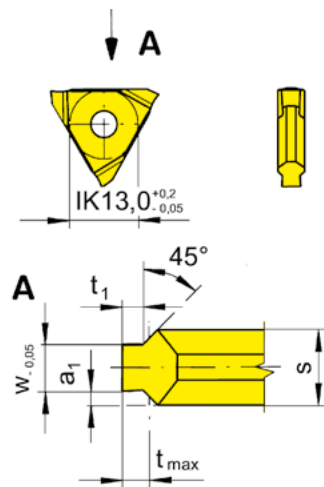
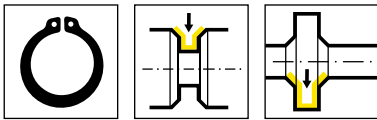
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	Nw	a ₁	HIS	EG55	TN35
312.0110.80	1.24	1.1	0.2	31201N	▲	▲
312.0130.80	1.44	1.3	0.2	31201N	▲	▲
312.0160.80	1.74	1.6	0.2	31201N	▲	▲
312.0185.80	1.99	1.85	0.2	31201N	▲	▲
312.0215.80	2.29	2.15	0.2	31202N	▲	▲
312.0265.80	2.79	2.65	0.2	31202N	▲	▲
312.0315.80	3.29	3.15	0.2	31203N	▲	▲
312.0415.80	4.29	4.15	0.2	31204N	▲	▲
312.0515.80	5.29	5.15	0.2	31204N	▲	▲

Widths for circlip grooves DIN 471/472	P	●	●
Dimensions in mm	M	●	-
	K	○	●
	N	-	-
	S	-	-
	H	-	-



P

Coating grades

▲ In stock

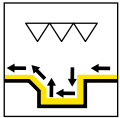
Δ 2 weeks

Part number	w	Nw	t _{max}	a ₁	s	t ₁	HIS	EG52	TN32
312.1101.25	1.24	1.1	0.2	0.64	2.5	0.19	31202N	Δ	Δ
312.1102.25	1.24	1.1	0.25	0.64	2.5	0.24	31202N	▲	▲
312.1103.25	1.24	1.1	0.3	0.64	2.5	0.29	31202N	▲	▲
312.1104.25	1.24	1.1	0.35	0.64	2.5	0.33	31202N	Δ	▲
312.1105.25	1.24	1.1	0.4	0.64	2.5	0.36	31202N	▲	▲
312.1306.25	1.44	1.3	0.55	0.54	2.5	0.45	31202N	▲	▲
312.1607.33	1.74	1.6	0.7	0.79	3.3	0.6	31203N	▲	▲
312.1608.33	1.74	1.6	0.85	0.79	3.3	0.75	31203N	▲	▲
312.1609.33	1.74	1.6	1	0.79	3.3	0.85	31203N	▲	▲
312.1810.33	1.99	1.85	1	0.67	3.3	0.85	31203N	▲	▲
312.1812.33	1.99	1.85	1.25	0.67	3.3	1.1	31203N	▲	▲
312.2115.43	2.29	2.15	1.5	1.02	4.3	1.35	31204N	▲	▲
312.2616.43	2.79	2.65	1.5	0.77	4.3	1.35	31204N	▲	▲
312.2617.43	2.79	2.65	1.75	0.77	4.3	1.6	31204N	▲	▲
312.3118.53	3.29	3.15	1.75	1.02	5.3	1.6	31204N	▲	▲
312.4120.53	4.29	4.15	2	0.52	5.3	1.85	31204N	▲	▲
312.4125.53	4.29	4.15	2.5	0.52	5.3	2.35	31204N	Δ	▲
312.5130.63	5.29	5.15	3	0.52	6.3	2.85	31204N	Δ	▲

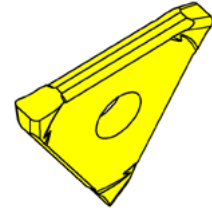
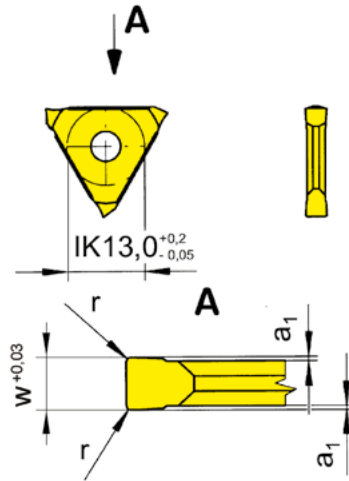
Widths for circlip grooves DIN 471/472

Dimensions in mm

P	●	●
M	○	-
K	-	●
N	-	-
S	-	-
H	-	-



P

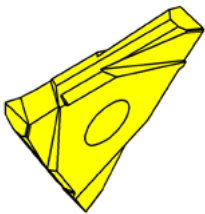
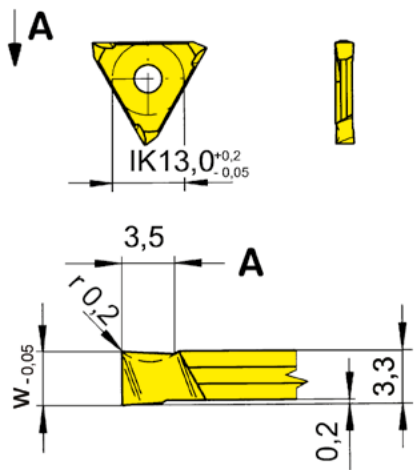
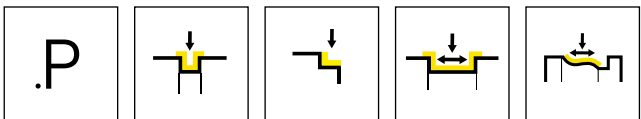


Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	a ₁	HIS		K10	P20	EG52	Ti25	TN32	TN35	H20
312.0100.02	1	0.2	0.1	31201N				▲	▲	▲		
312.0150.02	1.5	0.2	0.25	31201N			▲	▲	▲	▲	▲	
312.0200.02	2	0.2	0.25	31202N		▲	▲	▲	▲	▲	▲	▲
312.0200.04	2	0.4	0.25	31202N			▲	▲		▲		▲
312.0300.02	3	0.2	0.25	31203N		Δ	▲	▲	▲	▲		▲
312.0300.06	3	0.6	0.25	31203N			▲	▲		▲		
312.0400.02	4	0.2	0.25	31204N			▲	▲		▲		▲
312.0400.08	4	0.8	0.25	31204N			Δ	▲		▲		
312.0400.12	4	1.2	0.25	31204N			Δ	Δ				
Dimensions in mm					P	●	●	●	●	●	●	●
					M	●	-	○	●	-	-	○
					K	-	-	-	-	●	●	-
					N	-	-	-	○	-	-	-
					S	●	-	-	-	-	-	-
					H	-	-	-	-	-	-	-



L = left hand version shown

R = right hand version

▲ In stock

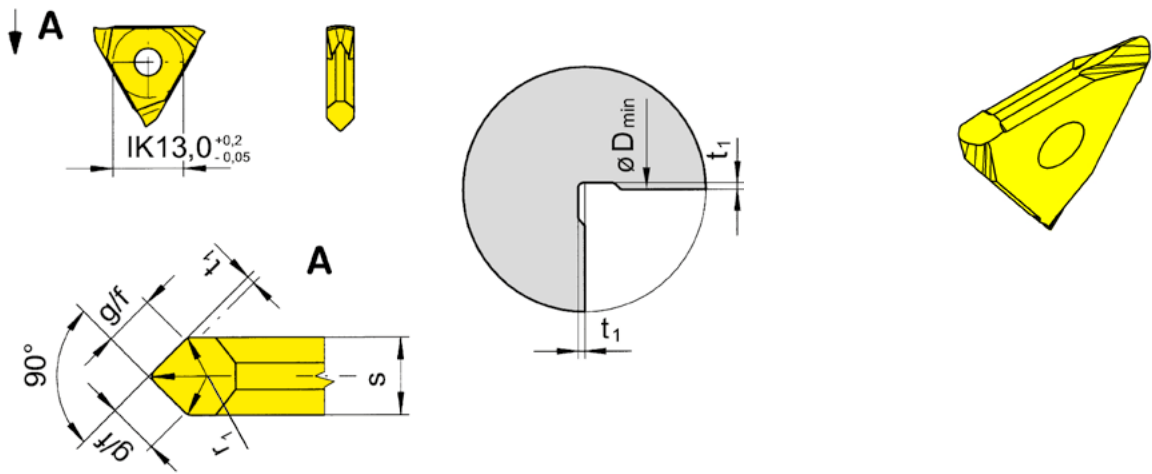
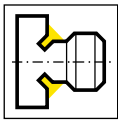
Δ 2 weeks

Coating grades

Part number	w	HIS		P20	EG52	TN32
R312.3031.33	3.29	31203N		▲	▲	▲
L312.3031.33	3.29	31203N		▲	▲	▲
The special cutting geometry permits a positive chip breaking angle when keeping a straight and right angled cutting edge.			P	●	●	●
			M	-	○	-
			K	-	-	●
			N	-	-	-
			S	-	-	-
			H	-	-	-

Dimensions in mm

P



Coating grades

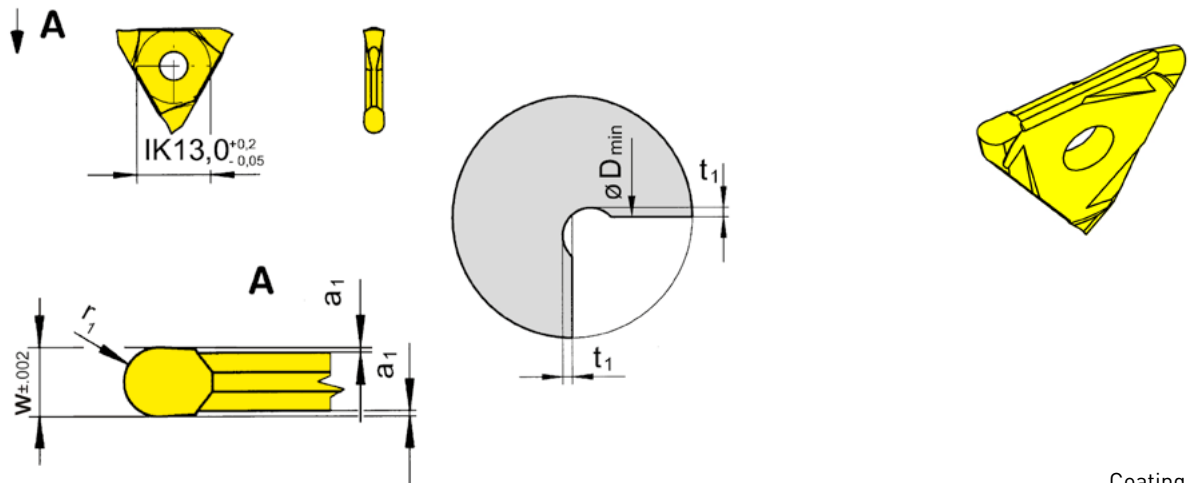
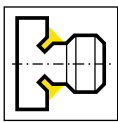
▲ In stock Δ 2 weeks

Part number	D _{min}	t ₁	s	g/f	r ₁	HIS		P20	EG52
312.0602.24	19	0.2	2.4	1.7	0.6	31202N	▲	▲	▲
312.0603.33	23	0.3	3.3	2.3	0.6	31203N	▲	▲	▲
312.1002.30	20	0.2	3	2.1	1	31203N	▲	▲	Δ
312.1004.50	29	0.4	5	3.6	1	31204N	▲	▲	▲
312.1603.50	25	0.3	5	3.6	1.6	31204N	▲	▲	Δ

Corner reliefs similar to DIN 509 form F

Dimensions in mm

P	●	●
M	-	o
K	-	-
N	-	-
S	-	-
H	-	-

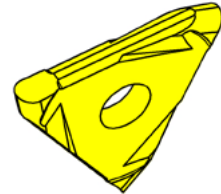
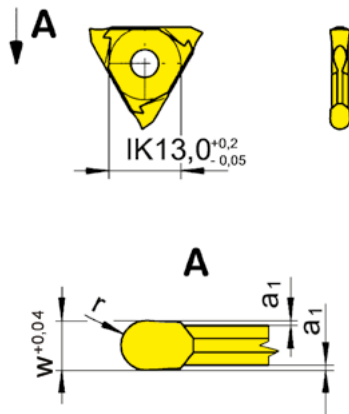
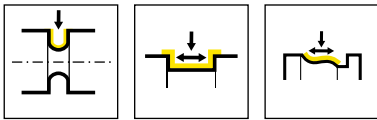


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r ₁	a ₁	D _{min}	t ₁	HIS		K10	P20	EG52	TN32
312.0010.20	2	1	0.2	22	0.7	31202N	▲	▲	▲	▲	▲
312.0015.30	3	1.5	0.2	27	1	31202N	▲	▲	▲	▲	▲
312.0020.40	4	2	0.2	30	1.2	31204N	▲	▲	▲	▲	▲
Dimensions in mm							P	●	●	●	●
							M	●	-	○	-
							K	-	-	-	●
							N	-	-	-	-
							S	●	-	-	-
							H	-	-	-	-

P



Coating grades

▲ In stock

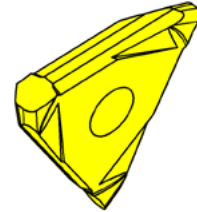
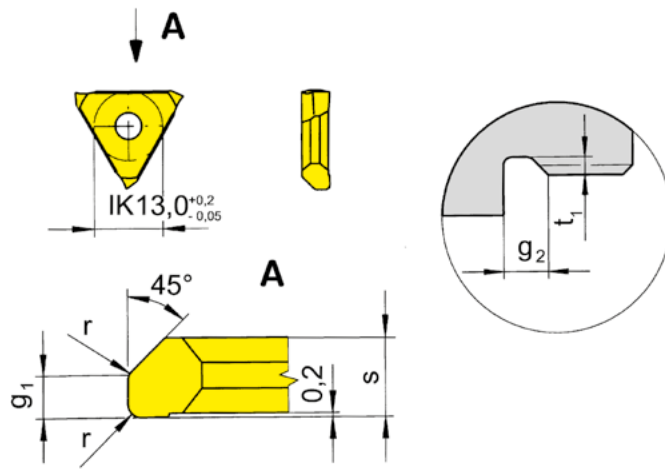
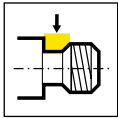
△ 2 weeks

Part number	w	r	a ₁	HIS		P20	AS45	EG35	EG55	TN32
312.0050.02	0.5	0.25	0.07	31201N		▲	▲	▲		▲
312.0100.05	1	0.5	0.09	31201N		▲	▲	▲		▲
312.0110.05	1.1	0.55	0.09	31201N			▲		△	
312.0120.06	1.2	0.6	0.2	31201N		▲	▲		▲	▲
312.0140.07	1.4	0.7	0.2	31201N			▲		▲	
312.0160.08	1.6	0.8	0.25	31201N		▲	▲		▲	▲
312.0180.09	1.8	0.9	0.25	31201N			▲		▲	
312.0200.10	2	1	0.25	31201N		▲	▲		▲	▲
312.0220.11	2.2	1.1	0.25	31202N			▲		▲	
312.0250.12	2.5	1.25	0.25	31202N		▲	▲		△	▲
312.0280.14	2.8	1.4	0.25	31202N			▲		△	
312.0300.15	3	1.5	0.25	31202N		▲	▲		▲	▲
312.0360.18	3.6	1.8	0.25	31203N			▲		△	
312.0400.20	4	2	0.25	31203N		▲	▲		△	▲

Width of groove up to 1,6 mm recommend only for grooving

Dimensions in mm

P	●	●	●	●	●
M	-	○	●	●	-
K	-	○	○	○	●
N	-	-	-	-	-
S	-	-	-	-	-
H	-	-	-	-	-



P

Coating grades

R = right hand version shown

L = left hand version

▲ In stock

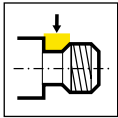
Δ 2 weeks

Part number	P	r	t ₁	s	g ₁	g ₂	HIS	P20	EG55	TN35
R312.1050.17	0.5	0.2	0.4	1.7	0.6	1	31201N • 31201R	Δ	▲	▲
R312.1060.17	0.6	0.4	0.5	1.7	0.7	1.2	31201N • 31201R		Δ	
R312.1070.17	0.7	0.4	0.55	1.7	0.85	1.4	31201N • 31201R		Δ	
R312.1080.27	0.8	0.4	0.65	2.7	0.95	1.6	31202N • 31202R	Δ	▲	▲
R312.1100.27	1	0.6	0.8	2.7	1.2	2	31202N • 31202R	▲	▲	▲
R312.1125.27	1.25	0.6	1	2.7	1.5	2.5	31202N • 31202R	Δ	▲	▲
R312.1150.37	1.5	0.8	1.15	3.7	1.85	3	31203N • 31203R	Δ	▲	▲
R312.1175.37	1.75	1	1.3	3.7	2.2	3.5	31203N • 31203R	Δ	Δ	Δ
R312.1200.53	2	1	1.5	5.3	2.5	4	31204N • 31204R	▲	Δ	Δ
R312.1250.53	2.5	1.2	1.8	5.3	3.2	5	31204N • 31204R	Δ	Δ	Δ
R312.1300.63	3	1.6	2.2	6.3	3.8	6	31204N • 31204R	Δ	Δ	Δ
L312.1050.17	0.5	0.2	0.4	1.7	0.6	1	31201N • 31201L	Δ	Δ	Δ
L312.1060.17	0.6	0.4	0.5	1.7	0.7	1.2	31201N • 31201L		Δ	
L312.1070.17	0.7	0.4	0.55	1.7	0.85	1.4	31201N • 31201L		Δ	
L312.1080.27	0.8	0.4	0.65	2.7	0.95	1.6	31202N • 31202L	Δ	Δ	▲
L312.1100.27	1	0.6	0.8	2.7	1.2	2	31202N • 31202L	Δ	Δ	Δ
L312.1125.27	1.25	0.6	1	2.7	1.5	2.5	31202N • 31202L	Δ	Δ	▲
L312.1150.37	1.5	0.8	1.15	3.7	1.85	3	31203N • 31203L	Δ	Δ	▲
L312.1175.37	1.75	1	1.3	3.7	2.2	3.5	31203N • 31203L	Δ	Δ	Δ
L312.1200.53	2	1	1.5	5.3	2.5	4	31204N • 31204L	▲	Δ	Δ
L312.1250.53	2.5	1.2	1.8	5.3	3.2	5	31204N • 31204L	Δ	Δ	Δ
L312.1300.63	3	1.6	2.2	6.3	3.8	6	31204N • 31204L	Δ		Δ

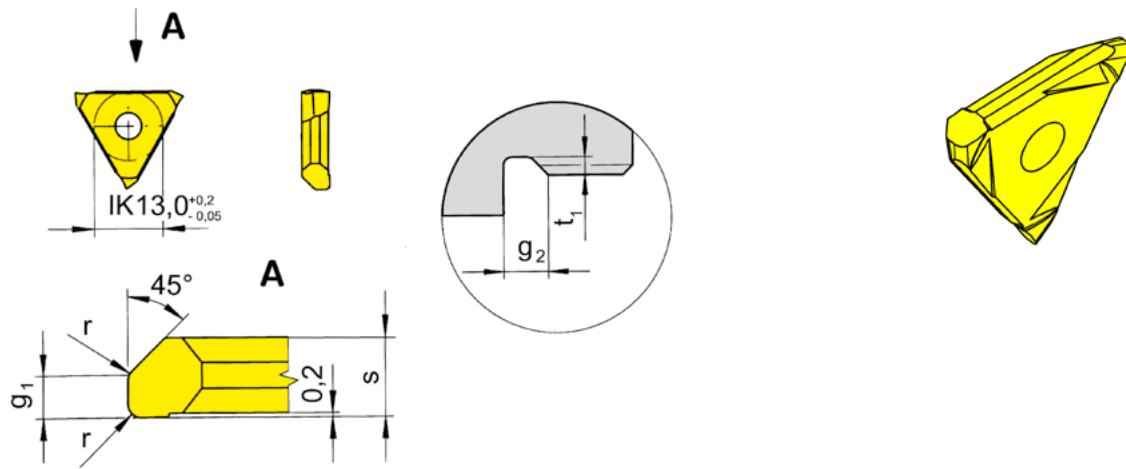
Thread relief DIN 76 form B

Dimensions in mm

P	●	●	●
M	-	●	-
K	-	○	●
N	-	-	-
S	-	-	-
H	-	-	-



P



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

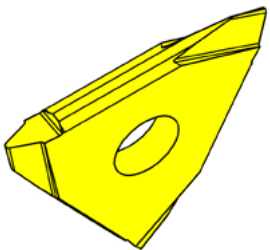
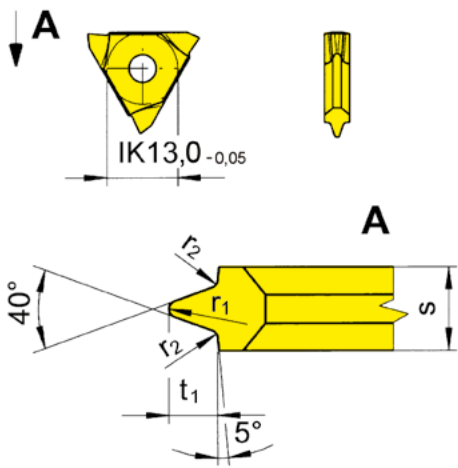
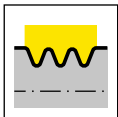
Δ 2 weeks

Part number	P	r	t ₁	s	g ₁	g ₂	HIS	EG55	TN35
R312.3050.17	0.5	0.2	0.4	1.7	1.1	1.5	31201N • 31201R	Δ	Δ
R312.3060.27	0.6	0.4	0.5	2.7	1.3	1.8	31202N • 31202R		▲
R312.3070.27	0.7	0.4	0.55	2.7	1.55	2.1	31202N • 31202R		
R312.3080.27	0.8	0.4	0.65	2.7	1.75	2.4	31202N • 31202R	Δ	
R312.3100.37	1	0.6	0.8	3.7	2.2	3	31203N • 31203R	▲	▲
R312.3125.53	1.25	0.6	1	5.3	2.8	3.8	31204N • 31204R	Δ	Δ
R312.3150.53	1.5	0.8	1	5.3	3.35	4.5	31204N • 31204R	▲	▲
R312.3175.56	1.75	1	1.3	5.6	4	5.3	31204N • 31204R	Δ	Δ
R312.3200.63	2	1	1.5	6.3	4.5	6	31204N • 31204R	Δ	Δ
L312.3050.17	0.5	0.2	0.4	1.7	1.1	1.5	31201N • 31201L	Δ	▲
L312.3060.27	0.6	0.4	0.5	2.7	1.3	1.8	31202N • 31202L	▲	Δ
L312.3070.27	0.7	0.4	0.55	2.7	1.55	2.1	31202N • 31202L	Δ	
L312.3080.27	0.8	0.4	0.65	2.7	1.75	2.4	31202N • 31202L	Δ	
L312.3100.37	1	0.6	0.8	3.7	2.2	3	31203N • 31203L	Δ	Δ
L312.3125.53	1.25	0.6	1	5.3	2.8	3.8	31204N • 31204L	Δ	
L312.3150.53	1.5	0.8	1	5.3	3.35	4.5	31204N • 31204L		Δ
L312.3175.56	1.75	1	1.3	5.6	4	5.3	31204N • 31204L	Δ	
L312.3200.63	2	1	1.5	6.3	4.5	6	31204N • 31204L	Δ	

Thread relief DIN 76 form A

Dimensions in mm

P	●	●
M	●	-
K	○	●
N	-	-
S	-	-
H	-	-



P

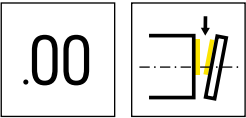
Coating grades

▲ In stock Δ 2 weeks

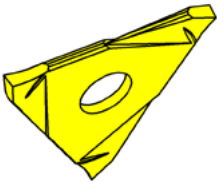
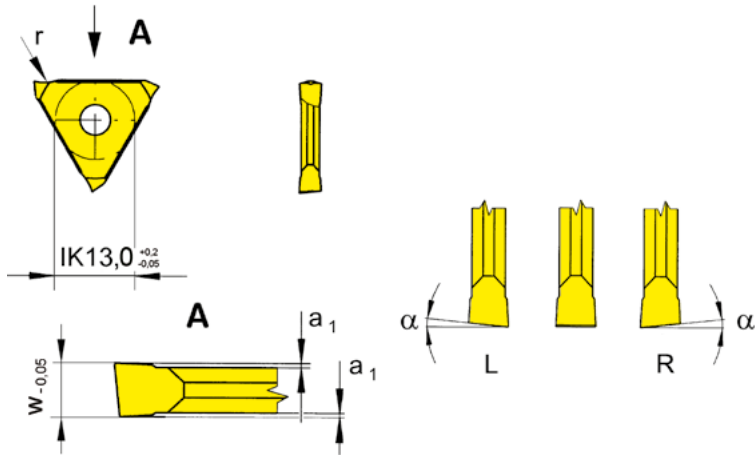
Part number	r ₂	t ₁	s	r ₁	HIS		P20	EG52	TN32
312.0223.23	0.2	2.3	2.34	0.25	31202N		▲	▲	▲
312.0223.30	0.2	2.3	3	0.25	31203N		▲	▲	▲
Insert 312.0223.23 for multi grooving Insert 312.0223.30 for single grooving						P	●	●	●
						M	-	o	-
						K	-	-	●
						N	-	-	-
						S	-	-	-
						H	-	-	-

Shape of groove:
Poly-V-belt grooves profile „J“

Dimensions in mm



P



Coating grades

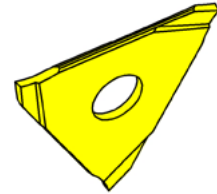
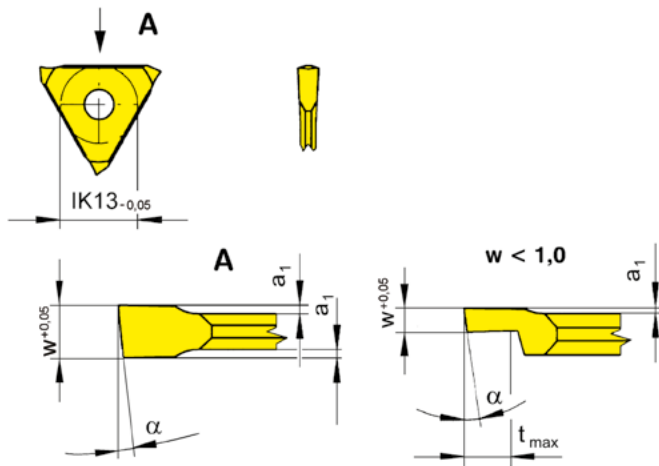
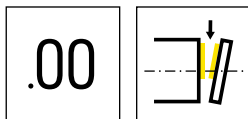
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	α	a ₁	HIS		EG35	TF45	TF46	TI25	TN35
R312.0614.00	1.44	6°	0.2	31201N		▲	▲	▲	▲	▲
L312.0614.00	1.44	6°	0.2	31201N		▲	▲	▲	▲	▲
Dimensions in mm						P	●	○	○	●
						M	●	-	-	●
						K	○	-	-	○
						N	-	-	-	○
						S	-	-	-	-
						H	-	-	-	-



Coating grades

R = right hand version shown

L = left hand version

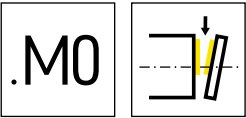
▲ In stock

△ 2 weeks

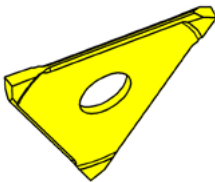
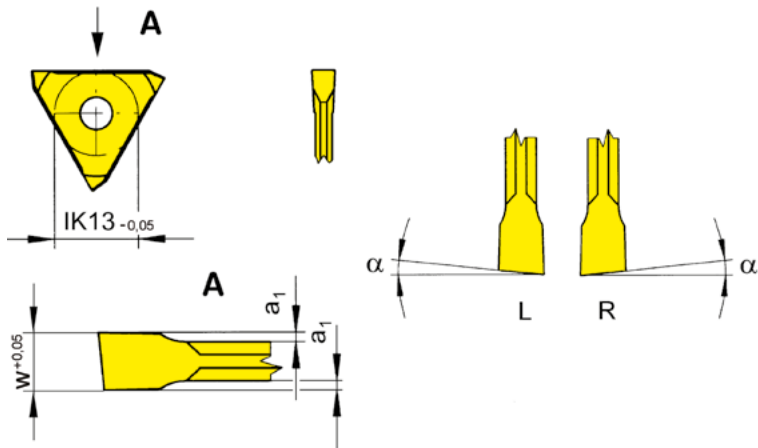
Part number	w	t _{max}	α	a _i	HIS	EG35	TF45
R312.0805.00	0.5	1	8°	0.1	31208N	▲	▲
R312.0808.00	0.8	1.5	8°	0.1	31208N	▲	▲
R312.0510.00	1	8	5°	0.1	31208N	▲	▲
R312.1210.00	1	8	12°	0.1	31208N	▲	▲
R312.0512.00	1.2	8	5°	0.2	31208N	▲	▲
R312.0515.00	1.5	8	5°	0.2	31211N	▲	▲
L312.0805.00	0.5	1	8°	0.1	31208N	▲	▲
L312.0808.00	0.8	1.5	8°	0.1	31208N	▲	▲
L312.0510.00	1	8	5°	0.1	31208N	▲	▲
L312.1210.00	1	8	12°	0.1	31208N	▲	▲
L312.0512.00	1.2	8	5°	0.2	31208N	▲	▲
L312.0515.00	1.5	8	5°	0.2	31211N	▲	▲

Dimensions in mm

P	●	o
M	●	-
K	o	-
N	-	-
S	-	-
H	-	-



P



Coating grades

R = right hand version shown

L = left hand version

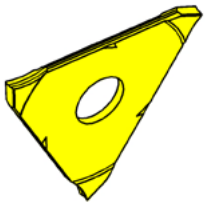
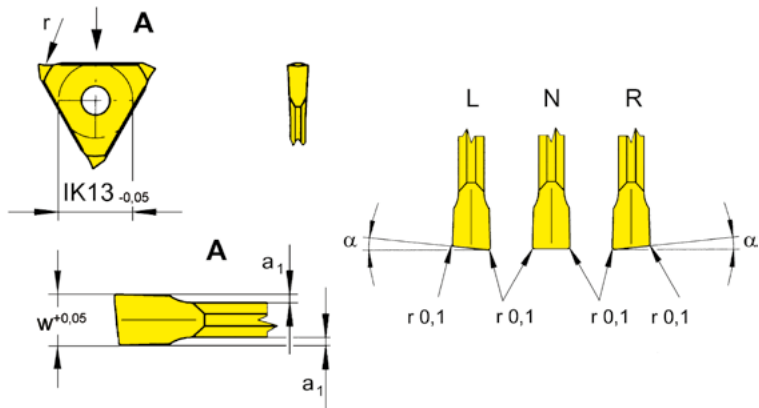
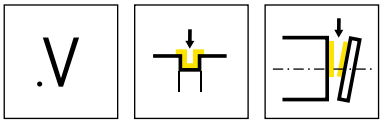
▲ In stock

Δ 2 weeks

Part number	w	t _{max}	α	a ₁	HIS	EG35	TF45
R312.0512.M0	1.2	8	5°	0.2	31208N	▲	▲
R312.0515.M0	1.5	8	5°	0.2	31211N	▲	▲
L312.0512.M0	1.2	8	5°	0.2	31208N		Δ
L312.0515.M0	1.5	8	5°	0.2	31211N	▲	Δ

Dimensions in mm

P	●	○
M	●	-
K	○	-
N	-	-
S	-	-
H	-	-



P

Coating grades

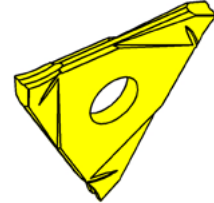
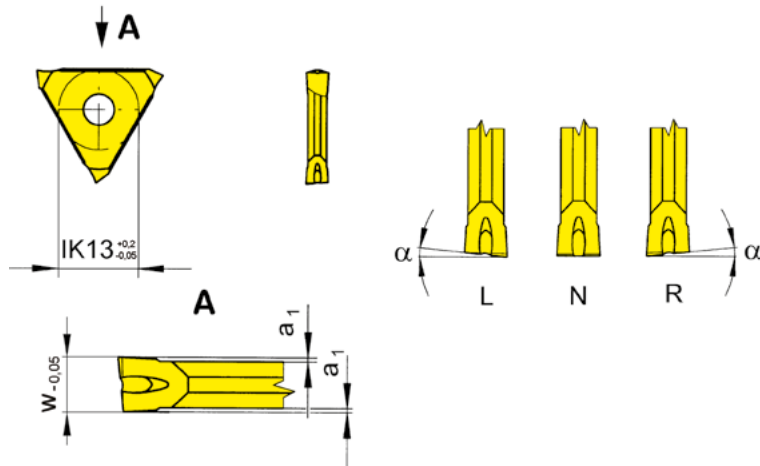
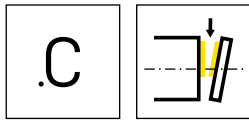
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	α	a ₁	HIS	EG35	TF45	TH35
R312.0512.V1	1.2	5°	0.2	31208N	▲	▲	
R312.0515.V1	1.5	5°	0.2	31211N	▲	▲	
R312.0520.V2	2	5°	0.2	31201N	▲		▲
L312.0512.V1	1.2	5°	0.2	31208N	▲	Δ	
L312.0515.V1	1.5	5°	0.2	31211N	▲	▲	
L312.0520.V2	2	5°	0.2	31201N	▲		▲
312.0012.V1	1.2	0°	0.2	31208N	▲	▲	
312.0015.V1	1.5	0°	0.2	31211N	▲	▲	
Dimensions in mm					P	●	●
					M	●	●
					K	○	-
					N	-	-
					S	-	-
					H	-	-



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

△ 2 weeks

Part number	w	α	a_1	HIS		P20	EG55	TF45	TN32	TN35
R312.0514.00	1.44	5°	0.2	31201N • 31202N • 31201R • 31202R			△	▲		
R312.0518.00	1.99	5°	0.2	31202N • 31202R		▲	▲		▲	▲
R312.0521.00	2.29	5°	0.2	31202N • 31202R		▲	▲		▲	▲
L312.0514.00	1.44	5°	0.2	31201N • 31202N • 31201R • 31202R			△	△		
L312.0518.00	1.99	5°	0.2	31202N • 31202R		▲	▲		▲	▲
L312.0521.00	2.29	5°	0.2	31202N • 31202R		▲	△		▲	▲
N312.0014.00	1.44	0°	0.2	31202N			▲	▲		
N312.0018.00	1.99	0°	0.2	31202N			▲	▲		
N312.0021.00	2.29	0°	0.2	31202N						▲
Dimensions in mm					P	●	●	○	●	●
					M	-	●	-	-	-
					K	-	○	-	●	●
					N	-	-	-	-	-
					S	-	-	-	-	-
					H	-	-	-	-	-

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.

Q



SYSTEM 315

INTERNAL AND EXTERNAL GROOVING, SIDE TURNING, PARTING OFF, THREADING AND FACE GROOVING

.019"-.314", 0.5-8mm width

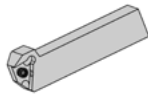
Q

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

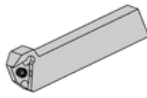
HOLDERS

Square Shank



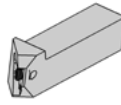
Page 550

Groove, Turn, Part Off,
Face Groove - Inch Shank



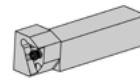
Page 551-558

Groove, Turn, Part Off,
Face Groove - Metric Shank



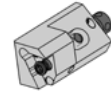
Page 559

Corner Cutting
Metric Shank



Page 560-561

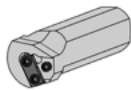
Grooving and Turning
Cranked, Metric Shank



Page 562

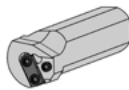
Grooving and Turning
Cartridge

Round Shank



Page 563

Grooving and Turning
Inch Shank



Page 564

Grooving and Turning
Metric Shank

INSERTS

Grooving and Finishing



Page 566-567

Grooving
DIN Circlip



Page 568

Finishing



Page 569

.FB Geometry
Finishing



Page 570

Grooving
Full Radius

Threading



Page 572

Partial Profile
60° Threading



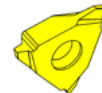
Page 573

Full Profile
60° Threading



Page 574

Full Profile
BSW 55° Threading

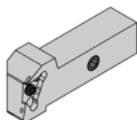


Page 575

Full Profile
30° Trapezoidal Thread

HOLDERS, INSERTS

Grooving, Turning, Parting Off - Sintered



Page 578

Groove, Turn, Part Off
Metric Shank



Page 579

.EN Chipbreaker
Grooving and Part Off



Page 580

.FL Chipbreaker
Groove, Turn, Part Off



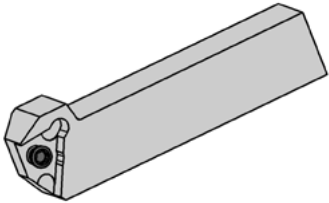
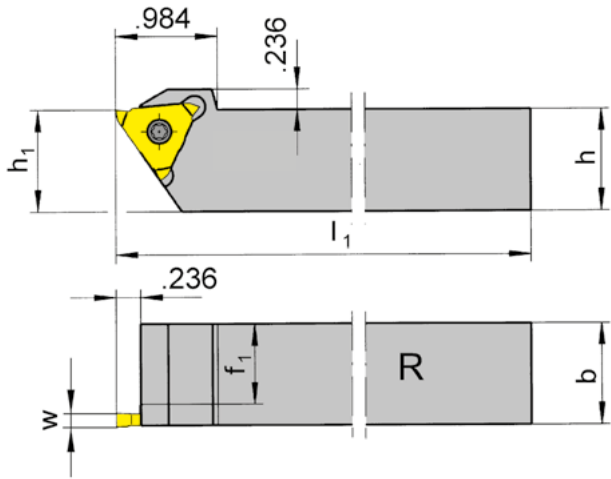
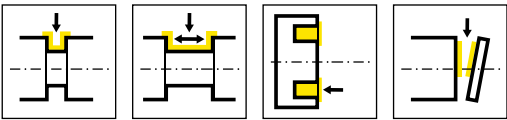
Page 581

.FY Chipbreaker
Grooving and Part Off



Page 582

.L Chipbreaker
Grooving and Turning



R = right hand version shown

L = left hand version

Part number	h	b	l1	h1	f1	HWS
RU356.0750.05	.750	.750	5.118	.750	.545	31505R
RU356.1000.05	1.000	1.000	6.004	1.000	.795	31505R
RU356.1250.05	1.250	1.250	6.693	1.250	1.045	31505R
LU356.0750.05	.750	.750	5.118	.750	.545	31505L
LU356.1000.05	1.000	1.000	6.004	1.000	.795	31505L
LU356.1250.05	1.250	1.250	6.693	1.250	1.045	31505L

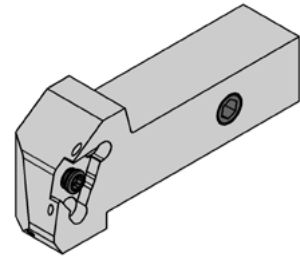
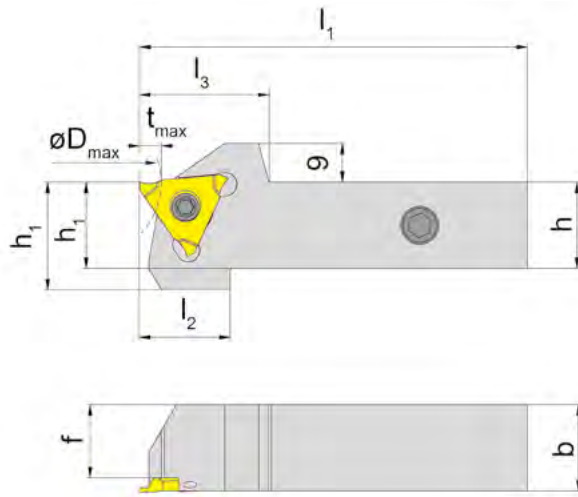
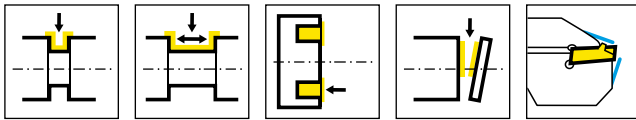
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LU356...	5.12T20P	T20PQ	6.5 Nm



Q

R = right hand version shown

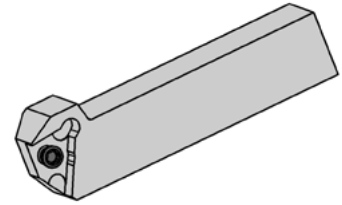
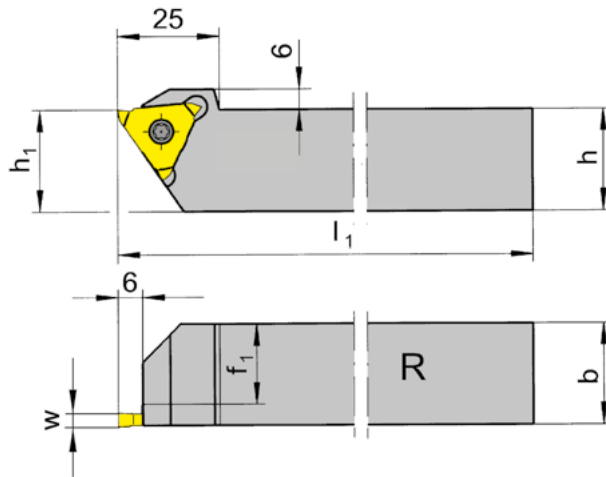
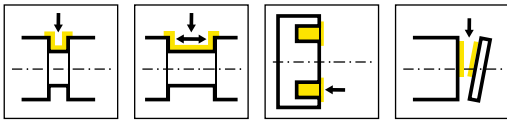
L = left hand version

Part number	h	b	l ₁	l ₂	l ₃	h ₁	f	HWS
RH315.1616.05.0A.03.IK	16	16	75	21	30	16	13.2	31503R
RH315.1616.05.0A.05.IK	16	16	75	21	30	16	10.8	31505R
RH315.2020.05.0A.03.IK	20	20	90	21	30	20	17	31503R
RH315.2020.05.0A.05.IK	20	20	90	21	30	20	14.8	31505R
RH315.2525.05.0A.03.IK	25	25	105	21	30	25	22	31503R
RH315.2525.05.0A.05.IK	25	25	105	21	30	25	19.8	31505R
LH315.1616.05.0A.03.IK	16	16	75	21	30	16	13.2	31503L
LH315.1616.05.0A.05.IK	16	16	75	21	30	16	10.8	31505L
LH315.2020.05.0A.03.IK	20	20	90	21	30	20	17	31503L
LH315.2020.05.0A.05.IK	20	20	90	21	30	20	14.8	31505L
LH315.2525.05.0A.03.IK	25	25	105	21	30	25	22	31503L
LH315.2525.05.0A.05.IK	25	25	105	21	30	25	19.8	31505L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
R/LH315...	5.12T20P	004.00.16	T20PQ	6 Nm



R = right hand version shown

L = left hand version

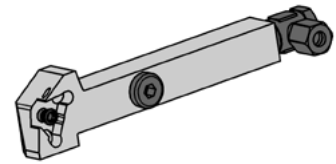
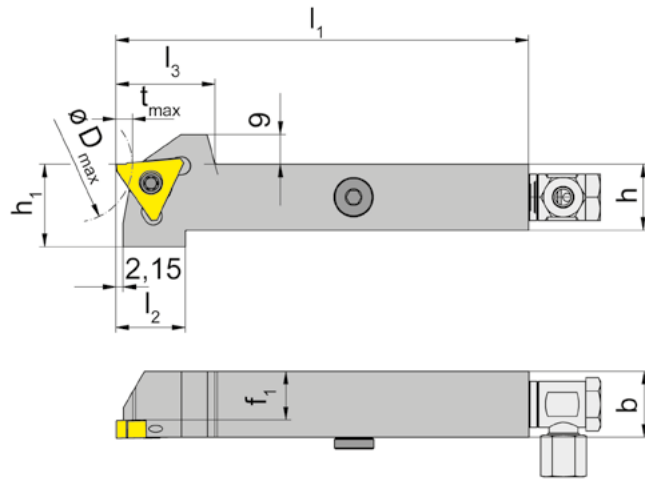
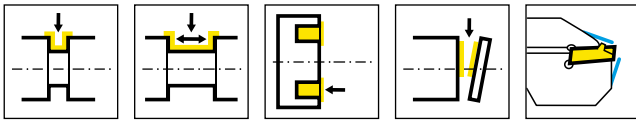
Part number	h	b	l ₁	h ₁	f ₁	HWS
R356.1212.03	12	12	100	20	9	31503R
R356.1616.03	16	16	125	20	13	31503R
R356.2020.03	20	20	125	20	17	31503R
R356.2525.03	25	25	150	25	22	31503R
R356.3232.03	32	32	170	32	29	31503R
R356.1212.05	12	12	100	20	6.8	31505R
R356.1616.05	16	16	125	20	10.8	31505R
R356.2020.05	20	20	125	20	14.8	31505R
R356.2525.05	25	25	150	25	19.8	31505R
R356.3232.05	32	32	170	32	26.8	31505R
R356.2020.07	20	20	125	20	13	31507R
R356.2525.07	25	25	150	25	18	31507R
R356.3232.07	32	32	170	32	25	31507R
L356.1212.03	12	12	100	20	9	31503L
L356.1616.03	16	16	125	20	13	31503L
L356.2020.03	20	20	125	20	17	31503L
L356.2525.03	25	25	150	25	22	31503L
L356.3232.03	32	32	170	32	29	31503L
L356.1212.05	12	12	100	20	6.8	31505L
L356.1616.05	16	16	125	20	10.8	31505L
L356.2020.05	20	20	125	20	14.8	31505L
L356.2525.05	25	25	150	25	19.8	31505L
L356.3232.05	32	32	170	32	26.8	31505L
L356.2020.07	20	20	125	20	13	31507L
L356.2525.07	25	25	150	25	18	31507L
L356.3232.07	32	32	170	32	25	31507L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L356.1212...	5.10T20P	T20PQ	6 Nm
R/L356.1616/.2020/.2525/.3232	5.15T20P	T20PQ	6.5 Nm



Q

R = right hand version shown

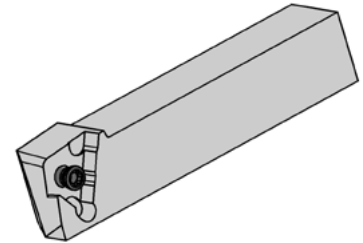
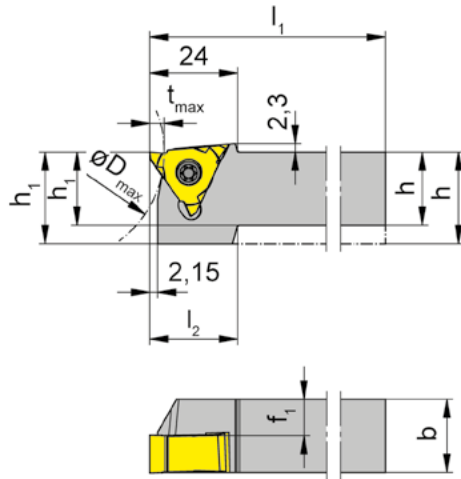
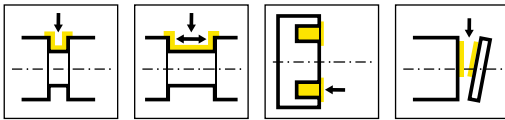
L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	HWS
R356.1616.0.13.IK	16	16	125	22	28	21	13	31503R
R356.2020.0.13.IK	20	20	125	21	30	25	17	31503R
R356.2525.0.13.IK	25	25	150	21	30	30	22	31503R
R356.1616.0.15.IK	16	16	125	22	28	21	10.8	31505R
R356.2020.0.15.IK	20	20	125	21	30	25	14.8	31505R
L356.1616.0.13.IK	16	16	125	22	28	21	13	31503L
L356.2020.0.13.IK	20	20	125	21	30	25	17	31503L
L356.2525.0.13.IK	25	25	150	21	30	30	22	31503L
L356.1616.0.15.IK	16	16	125	22	28	21	10.8	31505L
L356.2020.0.15.IK	20	20	125	21	30	25	14.8	31505L
L356.2525.0.15.IK	25	25	150	21	30	30	19.8	31505L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Torque Value
R/L356...	5.12T20P	004.00.16	T20PQ	004.00.26	6.5 Nm



R = right hand version shown

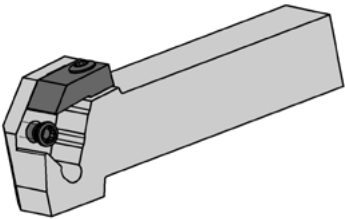
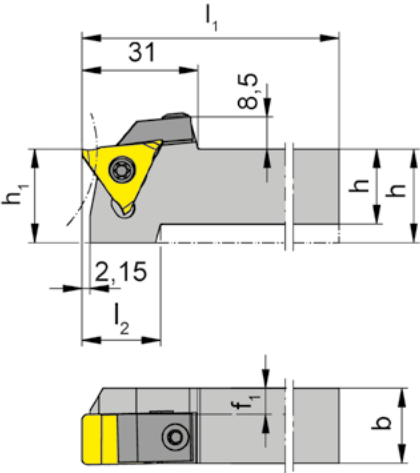
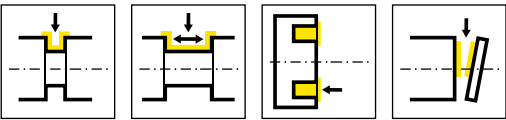
L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	HWS
R356.1616.13	16	16	125	21	20	13	31503R
R356.2020.13	20	20	125	-	20	17.1	31503R
R356.2525.13	25	25	150	-	25	22.1	31503R
R356.1616.15	16	16	125	21	20	10.8	31505R
R356.2020.15	20	20	125	21	20	14.8	31505R
R356.2525.15	25	25	150	-	25	19.8	31505R
R356.1616.16	16	16	125	-	20	10	31506R
R356.2020.16	20	20	125	21	25	14	31506R
R356.2525.16	25	25	150	-	25	19	31506R
R356.2020.17	20	20	125	21	25	13	31507R
R356.2525.17	25	25	150	-	25	18	31507R
R356.2020.10	20	20	125	21	25	10	31510R
L356.1616.13	16	16	125	21	20	13	31503L
L356.2020.13	20	20	125	-	20	17.1	31503L
L356.2525.13	25	25	150	-	25	22.1	31503L
L356.1616.15	16	16	125	21	20	10.8	31505L
L356.2020.15	20	20	125	21	20	14.8	31505L
L356.2525.15	25	25	150	-	25	19.8	31505L
L356.1616.16	16	16	125	-	20	10	31506L
L356.2020.16	20	20	125	21	25	14	31506L
L356.2525.16	25	25	150	-	25	19	31506L
L356.2020.17	20	20	125	21	25	13	31507L
L356.2525.17	25	25	150	-	25	18.1	31507L
L356.2020.10	20	20	125	21	25	10	31510L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L356...	5.12T20P	T20PQ	6.5 Nm
R/L356...	5.15T20P	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

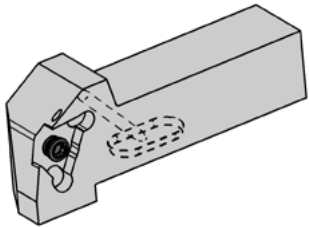
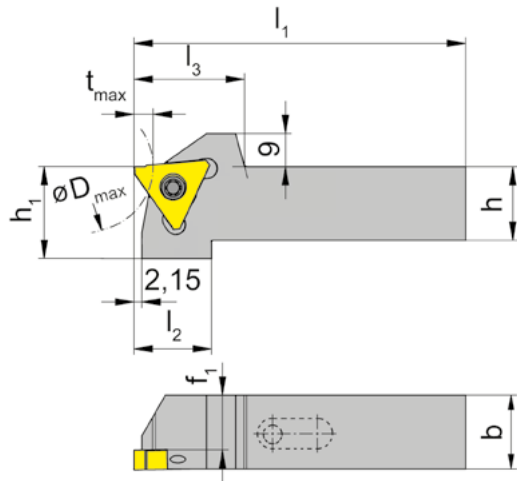
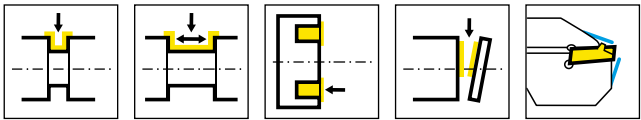
Part number	h	b	l ₁	l ₂	h ₁	f ₁	HWS
R356.2020.2.13	20	20	125	21	25	7	31513R
R356.2525.2.13	25	25	150	-	25	12	31513R
L356.2020.2.13	20	20	125	21	25	7	31513L
L356.2525.2.13	25	25	150	-	25	12	31513L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Clamping element	TORX PLUS® Wrench	Torque Value
R/L356.2020.2.13	5.12T20P	010.2013.0468	T20PQ	6.5 Nm
R/L356.2525.2.13	5.15T20P	010.2013.0468	T20PQ	6.5 Nm

Q



R = right hand version shown L = left hand version

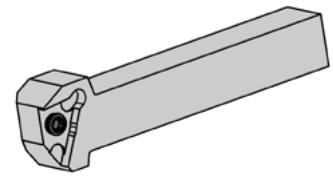
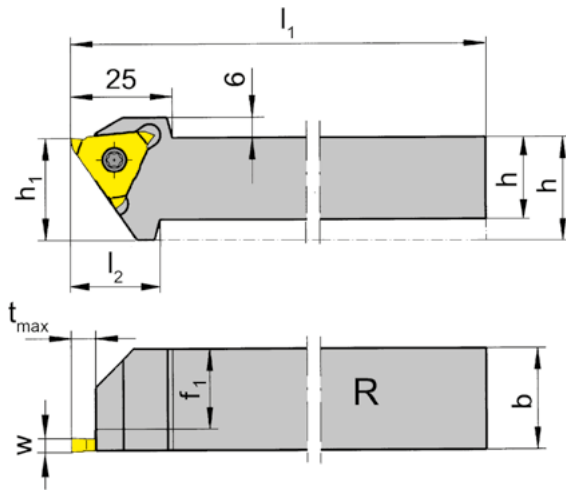
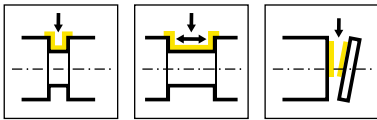
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	HWS
R356.1616.2.13.IK	16	16	75	22	28	21	13	31503R
R356.2525.2.13.IK	25	25	105	21	30	30	22	31503R
R356.1616.2.15.IK	16	16	75	22	28	21	10.8	31505R
L356.1616.2.15.IK	16	16	75	22	28	21	10.8	31505L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R356...	5.12T20P	T20PQ	6.5 Nm



Q

R = right hand version shown

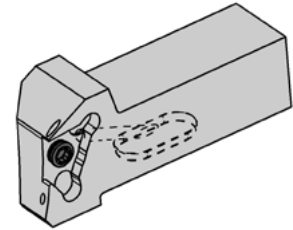
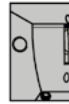
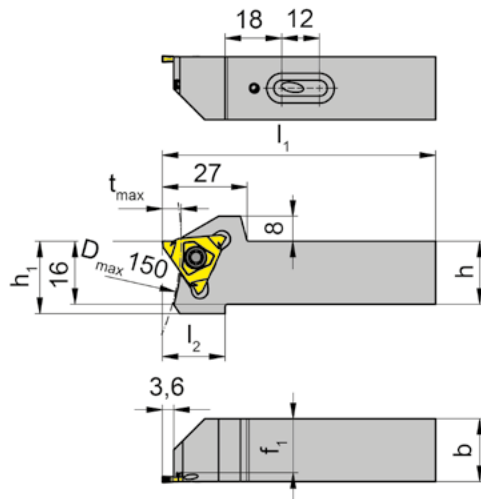
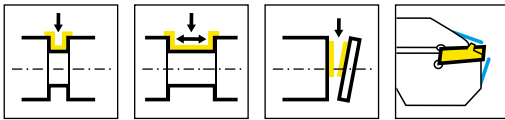
L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	t_{max}	HWS
R356.1212.S.03	12	12	100	20	25	20	9.2	5.5	S31503R
R356.1616.S.03	16	16	125	20	25	20	13.2	5.5	S31503R
R356.2020.S.03	20	20	125	-	25	20	17.2	5.5	S31503R
R356.2525.S.03	25	25	150	-	25	25	22.2	5.5	S31503R
L356.1212.S.03	12	12	100	20	25	20	9.2	5.5	S31503L
L356.1616.S.03	16	16	125	20	25	20	13.2	5.5	S31503L
L356.2020.S.03	20	20	125	-	25	20	17.2	5.5	S31503L
L356.2525.S.03	25	25	150	-	25	25	22.2	5.5	S31503L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L356.1212.S.03	5.10T20P	T20PQ	6 Nm
R/L356...	5.12T20P	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f_1	t_{max}	HWS
R356.2020.S.4.03.IK	20	20	87	20	23	17.2	6	S31503R
R356.2525.S.4.03.IK	25	25	104	20	28	22.2	6	S31503R
R356.1616.S.6.03.IK	16	16	125	20	23	13.2	6	S31503R
R356.2020.S.6.03.IK	20	20	125	20	23	17.2	6	S31503R
L356.1616.S.6.03.IK	16	16	125	20	23	13.2	6	S31503L
L356.2020.S.6.03.IK	20	20	125	20	23	17.2	6	S31503L
L356.2525.S.4.03.IK	25	25	104	20	28	22.2	6	S31503L

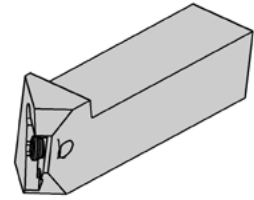
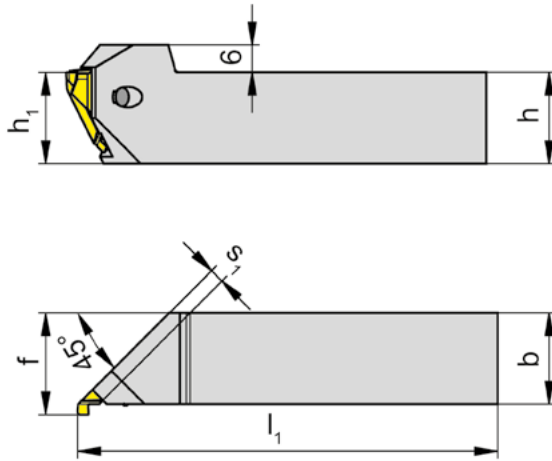
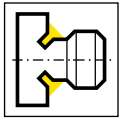
...S.4.03.IK = Coolant through slotted hole VDI

...S.6.03.IK = Coolant through coolant supply G1/8"

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Coolant supply	Screw Plug	Torque Value
R/L356...	5.12T20P	T20PQ	004.00.16	004.00.26	6.5 Nm



Q

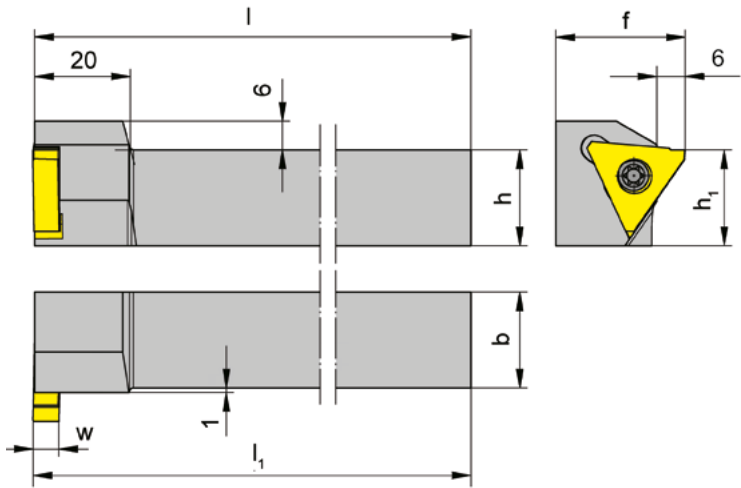
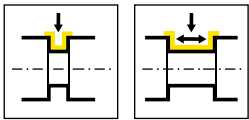
R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f	s ₁	HWS
R356.1616.45.03	16	16	125	16	18.3	3.25	31503L
R356.2020.45.03	20	20	125	20	22.3	3.25	31503L
R356.2525.45.03	25	25	150	25	27.3	3.25	31503L
L356.1616.45.03	16	16	125	16	18.3	3.25	31503R
L356.2020.45.03	20	20	125	20	22.3	3.25	31503R
L356.2525.45.03	25	25	150	25	27.3	3.25	31503R

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/L356...	5F.08T20P	T20PQ



R = right hand version shown L = left hand version

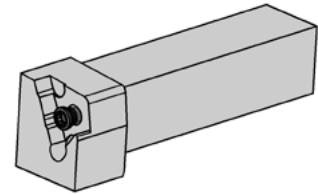
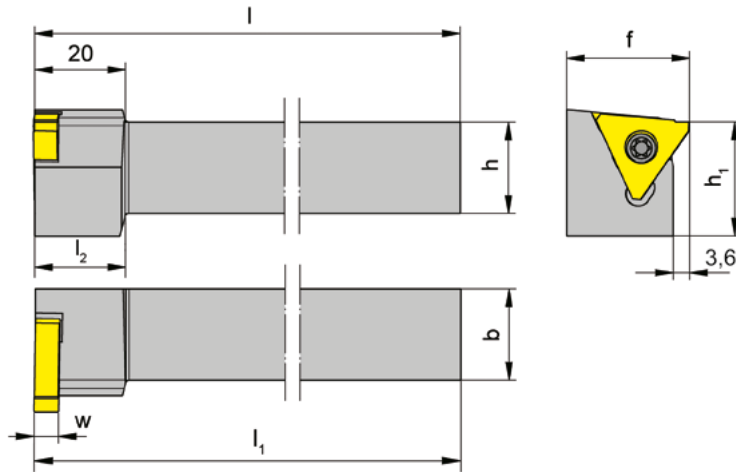
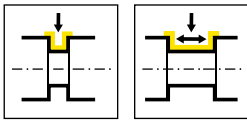
Part number	h	b	l ₁	l	h ₁	f	HWS
R357.2020.05	20	20	125.3	125	20	27	31505L
R357.2525.05	25	25	150.3	150	25	32	31505L
L357.2020.05	20	20	125.3	125	20	27	31505R
L357.2525.05	25	25	150.3	150	25	32	31505R

For the (w) dimension, see inserts

Ordering note:
Use right hand inserts in left hand toolholders and left hand inserts in right hand toolholders
Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L357...	5.12T20P	T20PQ	6.5 Nm



Q

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l	l_2	h_1	f	HWS
R357.2020.15	20	20	125.3	125	20	25	27	31505L
R357.2525.15	25	25	150.3	150	-	25	32	31505L
L357.2020.15	20	20	125.3	125	20	25	27	31505R
L357.2525.15	25	25	150.3	150	-	25	32	31505R

For the (w) dimension, see inserts

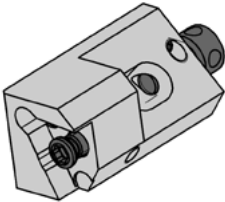
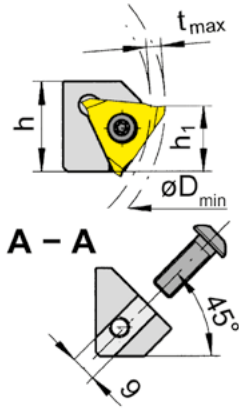
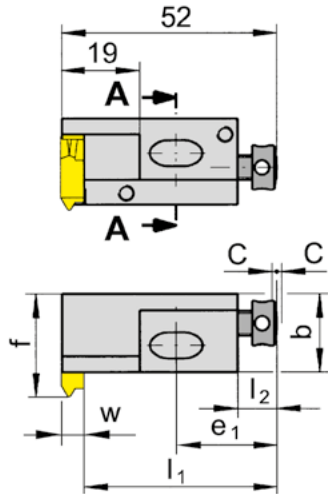
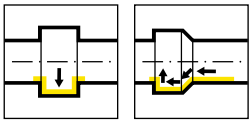
Ordering note:

Use right hand inserts in left hand toolholders and left hand inserts in right hand toolholders

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L357...	5.12T20P	T20PQ	6.5 Nm



R = right hand version shown L = left hand version

Part number	h	b	h ₁	f	l ₁	E ₁	l ₂	C	HWS	HMS
R357.1619.05	21	19	16	25	46.8	24	9	2	31505L	021001R
L357.1619.05	21	19	16	25	46.8	24	9	2	31505R	021001L

For the (w) dimension, see inserts

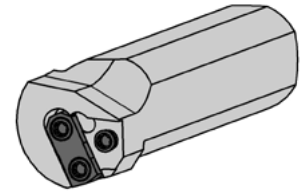
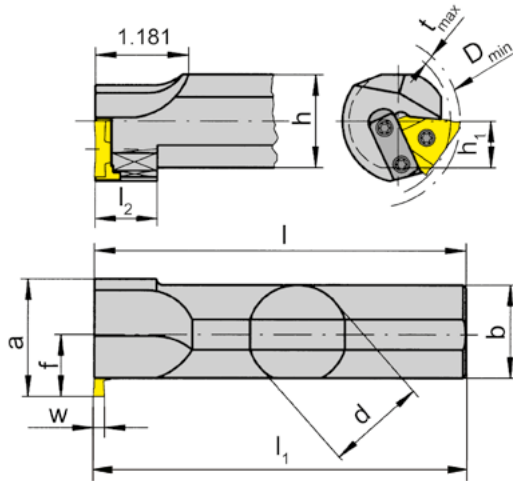
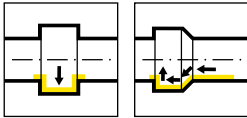
Dimensions of seating see following page

Ordering note:
Use right hand inserts in left hand toolholders and left hand inserts in right hand toolholders

Dimensions in mm

Spare Parts

Cartridge	Clamping Screw	Screw	TORX PLUS® Wrench	Torque Value
R/L357.1619.05	4.08.913	6.12.020	T20PQ	3 Nm



Q

R = right hand version shown

L = left hand version

Part number	d	l	l ₁	l ₂	h	a	h ₁	f	D _{min}	b	HWS
RU333.1000.05	1.000	6.693	6.705	.787	.921	1.654	.461	.945	1.693	1.000	31505L
RU333.1250.05	1.250	7.992	8.004	.787	1.171	1.496	.586	.787	1.693	1.174	31505L
RU333.1500.05	1.500	10.000	10.012	.787	1.421	1.732	.711	.945	1.693	1.457	31505L
LU333.1000.05	1.000	6.693	6.705	.787	.921	1.654	.461	.945	1.693	1.000	31505R
LU333.1250.05	1.250	7.992	8.004	.787	1.171	1.496	.586	.787	1.693	1.174	31505R
LU333.1500.05	1.500	10.000	10.012	.787	1.421	1.732	.711	.945	1.693	1.457	31505R

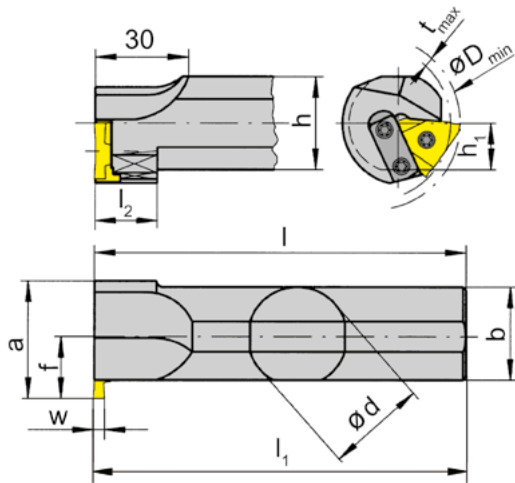
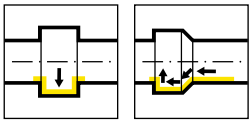
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LU333...	5.12T20P	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	d	l	l_1	l_2	h	a	h_1	f	D_{min}	b	HWS
R333.0025.03	25	170	170.3	20	23	38	11.5	20	43	25	31503L
R333.0032.03	32	200	200.3	20	30	38	15	20	43	30	31503L
R333.0025.05	25	170	170.3	20	23	38	11.5	20	43	25	31505L
R333.0032.05	32	200	200.3	20	30	38	15	20	43	30	31505L
R333.0040.05	40	250	250.3	-	38	44	19	24	45	38	31505L
L333.0025.03	25	170	170.3	20	23	38	11.5	20	43	25	31503R
L333.0032.03	32	200	200.3	20	30	38	15	20	43	30	31503R
L333.0025.05	25	170	170.3	20	23	38	11.5	20	43	25	31505R
L333.0032.05	32	200	200.3	20	30	38	15	20	43	30	31505R
L333.0040.05	40	250	250.3	-	38	44	19	24	45	38	31505R

For the (w) dimension, see inserts

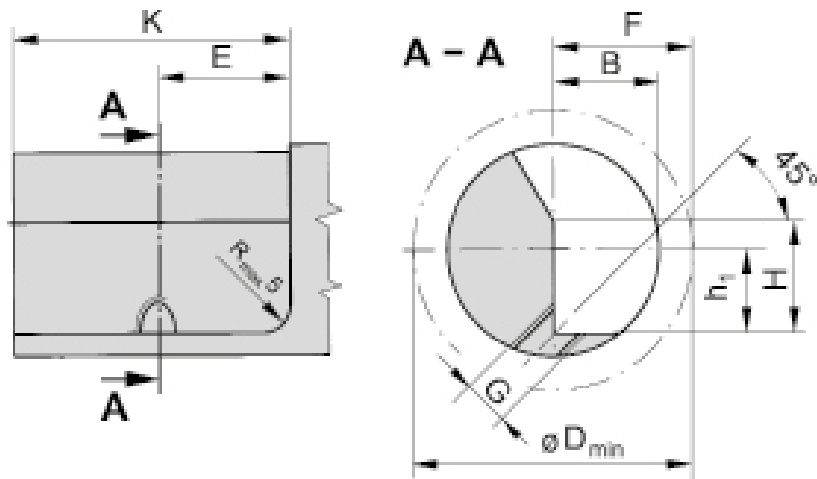
Ordering note:

Use right hand inserts in left hand toolholders and left hand inserts in right hand toolholders

Dimensions in mm

Spare Parts

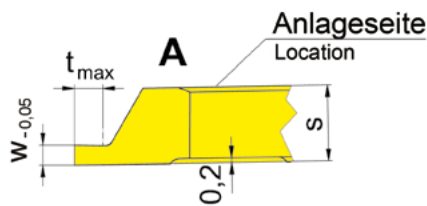
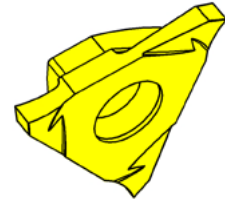
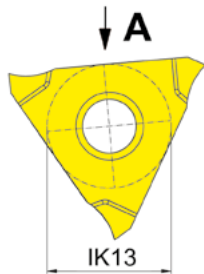
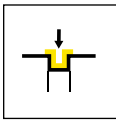
Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L333...	5.12T20P	T20PQ	6.5 Nm



Q

Kurzklemmhalter Cartridge	F	G	H	K	E	B	h ₁	D _{min}	HWS	HMS	Befestigungsschraube Fastening screw
R/L357.1619.05	25	M8	21	50	24	19	16	50	31505R	021001L	8.25.351

Dimensions in mm



R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Coating grades

Part number	w	Nw	t _{max}	s	HIS	TN32
R315.0034.32.00	0.34	0.3	0.6	3.2	31503R	Δ
R315.0044.32.00	0.44	0.4	0.7	3.2	31503R	Δ
R315.0050.32.00	0.57	0.5	0.7	3.2	31503R	Δ
R315.0060.32.00	0.67	0.6	0.8	3.2	31503R	Δ
R315.0070.32.00	0.77	0.7	1.1	3.2	31503R	Δ
R315.0080.32.00	0.87	0.8	1.2	3.2	31503R	▲
R315.0090.32.00	0.97	0.9	1.4	3.2	31503R	Δ
R315.0100.32.00	1.07	1	1.6	3.2	31503R	Δ
L315.0034.32.00	0.34	0.3	0.6	3.2	31503L	Δ
L315.0044.32.00	0.44	0.4	0.7	3.2	31503L	Δ
L315.0050.32.00	0.57	0.5	0.7	3.2	31503L	Δ
L315.0060.32.00	0.67	0.6	0.8	3.2	31503L	Δ
L315.0070.32.00	0.77	0.7	1.1	3.2	31503L	Δ
L315.0080.32.00	0.87	0.8	1.2	3.2	31503L	Δ
L315.0090.32.00	0.97	0.9	1.4	3.2	31503L	Δ
L315.0100.32.00	1.07	1	1.6	3.2	31503L	Δ

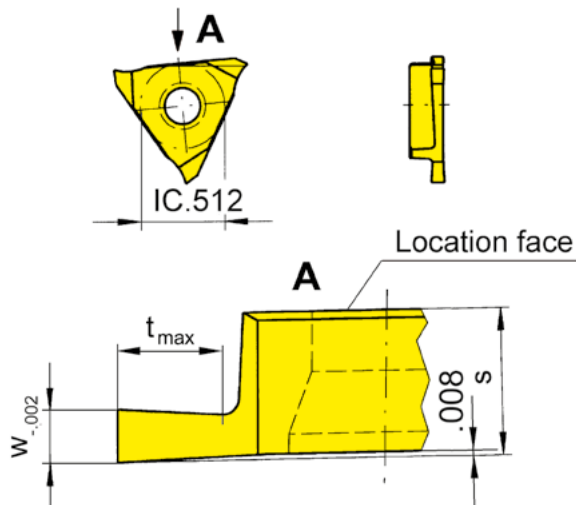
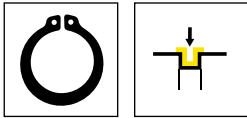
External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

Widths for circlip grooves DIN 471/472

Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-



R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Coating grades

Part number	w	Nw	t _{max}	s	HIS	TN35
R315.0110.00	1.24	1.1	2	5.4	31505R	▲
R315.0130.00	1.44	1.3	2	5.4	31505R	▲
R315.0160.00	1.74	1.6	3	5.4	31505R	▲
R315.0185.00	1.99	1.85	3	5.4	31505R	▲
R315.0215.00	2.29	2.15	4	5.4	31505R	▲
R315.0265.00	2.79	2.65	4	5.4	31505R	▲
R315.0315.00	3.29	3.15	5	5.4	31505R	▲
R315.0415.00	4.29	4.15	5	5.4	31505R	▲
L315.0110.00	1.24	1.1	2	5.4	31505L	▲
L315.0130.00	1.44	1.3	2	5.4	31505L	▲
L315.0160.00	1.74	1.6	3	5.4	31505L	▲
L315.0185.00	1.99	1.85	3	5.4	31505L	▲
L315.0215.00	2.29	2.15	4	5.4	31505L	▲
L315.0265.00	2.79	2.65	4	5.4	31505L	▲
L315.0315.00	3.29	3.15	5	5.4	31505L	▲
L315.0415.00	4.29	4.15	5	5.4	31505L	▲

External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

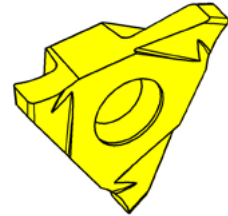
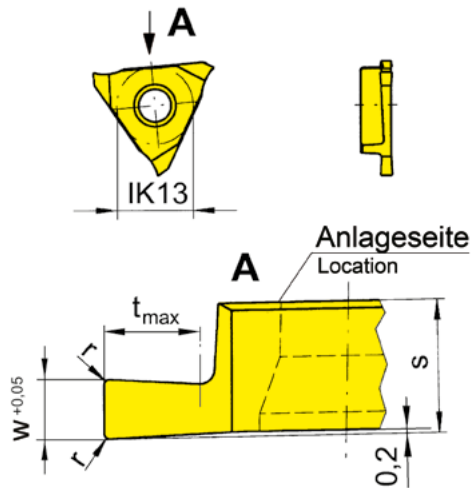
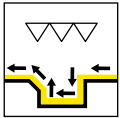
Internal machining:

Right hand insert in left hand toolholder 333/357, left hand insert in right hand toolholder 333/357.

P	●
M	-
K	●
N	-
S	-
H	-

Widths for circlip grooves DIN 471/472

Dimensions in mm



Coating grades

R = right hand version shown

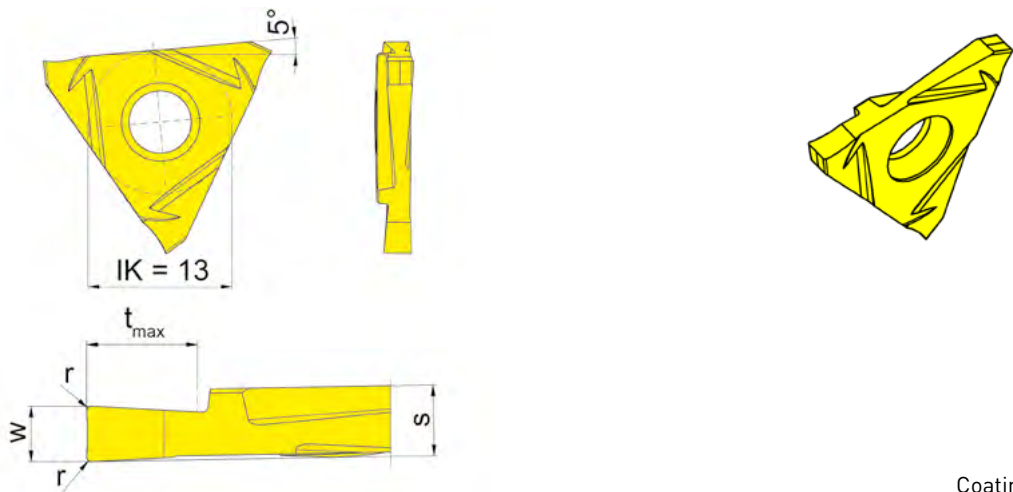
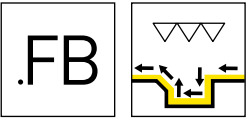
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	TN35
R315.0200.02	2	0.2	3	5.4	31505R	▲
R315.0200.04	2	0.4	3	5.4	31505R	▲
R315.0300.02	3	0.2	4	5.4	31505R	▲
R315.0300.04	3	0.4	4	5.4	31505R	Δ
L315.0200.02	2	0.2	3	5.4	31505L	▲
L315.0200.04	2	0.4	3	5.4	31505L	Δ
L315.0300.02	3	0.2	4	5.4	31505L	▲
L315.0300.04	3	0.4	4	5.4	31505L	▲
External machining:						P ●
Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.						M -
Internal machining:						K ●
Right hand insert in left hand toolholder 333/357, left hand insert in right hand toolholder 333/357.						N -
						S -
						H -

Dimensions in mm



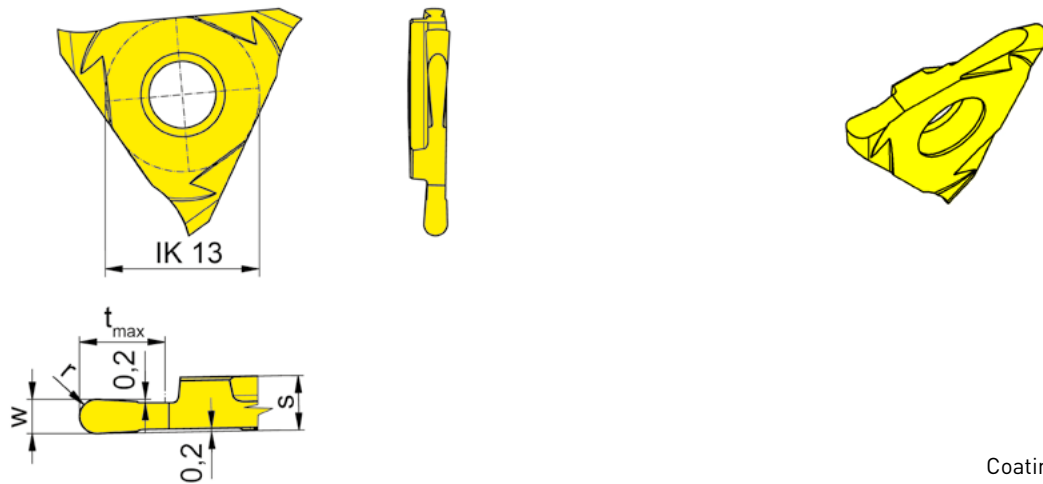
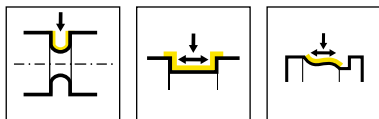
R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	H20	
R315.FB25.02	2.5	0.2	5	3.2	31503R	▲	
R315.FB30.02	3	0.2	5	3.2	31503R	▲	
L315.FB25.02	2.5	0.2	5	3.2	31503L	▲	
L315.FB30.02	3	0.2	5	3.2	31503L	▲	
Dimensions in mm						P	●
						M	o
						K	-
						N	-
						S	-
						H	-

Q



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	AS45
R315.0100.05	1	0.5	2.5	3.2	31503R	▲
R315.0120.06	1.2	0.6	3	3.2	31503R	▲
R315.0150.07	1.5	0.75	5	3.2	31503R	▲
R315.0160.08	1.6	0.8	5	3.2	31503R	▲
R315.0180.09	1.8	0.9	5	3.2	31503R	Δ
R315.0200.10	2	1	5	3.2	31503R	▲
R315.0220.11	2.2	1.1	5	3.2	31503R	Δ
R315.0250.12	2.5	1.25	5	3.2	31503R	▲
R315.0280.14	2.8	1.4	5	3.2	31503R	▲
R315.0300.15	3	1.5	5	3.2	31503R	▲
R315.0360.18	3.6	1.8	5	5.4	31505R	Δ
R315.0400.20	4	2	5	5.4	31505R	Δ
L315.0100.05	1	0.5	2.5	3.2	31503L	▲
L315.0120.06	1.2	0.6	3	3.2	31503L	▲
L315.0150.07	1.5	0.75	5	3.2	31503L	▲
L315.0160.08	1.6	0.8	5	3.2	31503L	Δ
L315.0180.09	1.8	0.9	5	3.2	31503L	Δ
L315.0200.10	2	1	5	3.2	31503L	▲
L315.0220.11	2.2	1.1	5	3.2	31503L	Δ
L315.0250.12	2.5	1.25	5	3.2	31503L	▲
L315.0280.14	2.8	1.4	5	3.2	31503L	Δ
L315.0300.15	3	1.5	5	3.2	31503L	Δ
L315.0360.18	3.6	1.8	5	5.4	31505L	Δ
L315.0400.20	4	2	5	5.4	31505L	Δ

External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

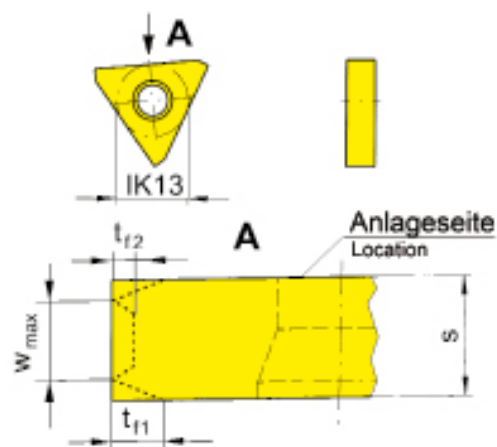
Internal machining:

Right hand insert in left hand toolholder 333/357, left hand insert in right hand toolholder 333/357.

Width of groove up to 1.6 mm recommend only for grooving

Dimensions in mm

P	●
M	○
K	○
N	-
S	-
H	-



R = right hand version shown L = left hand version

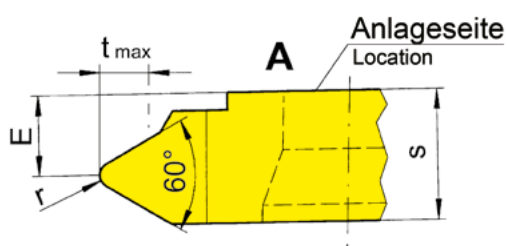
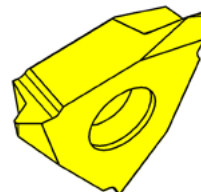
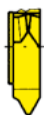
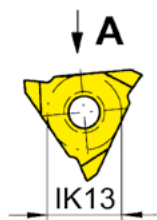
Part Number	W _{max}	t _{f1}	t _{f2}	s
R/L315...	3.05	5.00	-	3.25
R/L315...	5.25	5.00	2.00	5.45
R/L315...	5.90	5.00	2.00	6.10
R/L315...	6.40	5.00	2.00	6.60
R/L315...	6.90	5.00	2.00	7.10
R/L315...	7.30	5.00	2.00	7.50
R/L315...	8.30	5.00	2.00	8,50
R/L315...	9.30	5.00	2.00	9.50
R/L315...	10.30	5.00	2.00	10.50
R/L315...	13.30	5.00	2.00	13.50
R/L315...	15.30	5.00	2.00	15.50

Dimensions in mm

Indexable insert

External threading

315



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	P _{max}	TPI	E	r	t _{max}	s	HIS	TN35
R315.0610.01	1	1	24-22	4.5	0.14	0.61	5.45	31505R	▲
R315.0712.01	1.25	1.25	22-20	4.5	0.15	0.77	5.45	31505R	▲
R315.0915.01	1.5	1.5	16-14	4.15	0.2	0.92	5.45	31505R	▲
R315.1017.01	1.75	1.75	14-12	4.15	0.25	1.07	5.45	31505R	▲
R315.1220.01	2	2	13-12	4.15	0.25	1.23	5.45	31505R	▲
R315.1525.01	2.5	2.5	10	3.8	0.35	1.53	5.45	31505R	▲
R315.1830.01	3	3	8	3.6	0.4	1.84	5.45	31505R	▲
R315.2135.01	3.5	3.5	7	3.4	0.5	2.15	5.45	31505R	Δ
R315.3060.01	3	6	8-5	3	0.4	4.15	6.1	31505R	▲
L315.0610.01	1	1	24-22	4.5	0.14	0.61	5.45	31505L	Δ
L315.0712.01	1.25	1.25	22-20	4.5	0.15	0.77	5.45	31505L	Δ
L315.0915.01	1.5	1.5	16-14	4.15	0.2	0.92	5.45	31505L	▲
L315.1017.01	1.75	1.75	14-12	4.15	0.25	1.07	5.45	31505L	Δ
L315.1220.01	2	2	13-12	4.15	0.25	1.23	5.45	31505L	Δ
L315.1525.01	2.5	2.5	10	3.8	0.35	1.53	5.45	31505L	Δ
L315.1830.01	3	3	8	3.6	0.4	1.84	5.45	31505L	Δ
L315.2135.01	3.5	3.5	7	3.4	0.5	2.15	5.45	31505L	Δ
L315.3060.01	3	6	8-5	3	0.4	4.15	6.1	31505L	▲

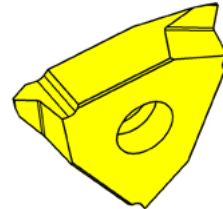
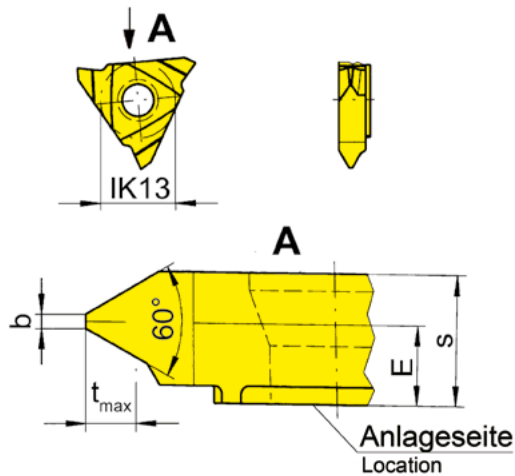
No shims necessary. All HORN thread profiles are manufactured with **full ground radial clearance**.

External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-



Q

Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	t _{max}	b	s	D _{min}	HIS	TN35
R315.0510.01	1	32-18	4.85	0.55	0.12	5.45	40	31505R	Δ
R315.0815.01	1.5	20-12	4.65	0.81	0.18	5.45	40	31505R	Δ
R315.1020.01	2	16-11	4.45	1.08	0.25	5.45	40	31505R	Δ
R315.1325.01	2.5	12-9	4.25	1.35	0.31	5.45	43	31505R	Δ
R315.1630.01	3	9-8	4.05	1.62	0.37	5.45	43	31505R	Δ
R315.1835.01	3.5	8-7	3.9	1.89	0.43	5.45	43	31505R	Δ
L315.0510.01	1	32-18	4.85	0.55	0.12	5.45	40	31505R	Δ
L315.0815.01	1.5	20-12	4.65	0.81	0.18	5.45	40	31505L	Δ
L315.1020.01	2	16-11	4.45	1.08	0.25	5.45	40	31505L	Δ
L315.1325.01	2.5	12-9	4.25	1.35	0.31	5.45	43	31505L	Δ
L315.1630.01	3	9-8	4.05	1.62	0.37	5.45	43	31505L	Δ
L315.1835.01	3.5	8-7	3.9	1.89	0.43	5.45	43	31505L	Δ

No shims necessary. All HORN thread profiles are manufactured with **full ground radial clearance**.

Internal machining:

Right hand insert in right hand toolholder 333/357, left hand insert in left hand toolholder 333/357

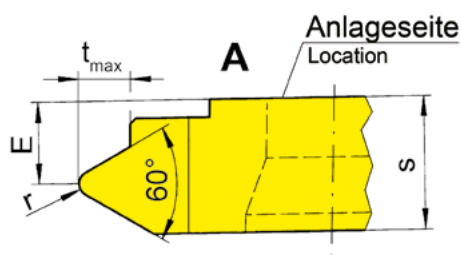
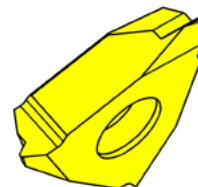
Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-

Indexable insert

External threading

315



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	t _{max}	s	HIS	TN35
R315.0610.02	1	25	4.5	0.14	0.61	5.45	31505R	▲
R315.0712.02	1.25	20	4.5	0.15	0.77	5.45	31505R	▲
R315.0915.02	1.5	16	4.15	0.2	0.92	5.45	31505R	▲
R315.1017.02	1.75	14	4.15	0.25	1.07	5.45	31505R	▲
R315.1220.02	2	12	4.15	0.25	1.23	5.45	31505R	▲
R315.1525.02	2.5	10	3.8	0.35	1.55	5.45	31505R	▲
R315.1830.02	3	8	3.6	0.4	1.84	5.45	31505R	▲
R315.2135.02	3.5	7	3.4	0.5	2.15	5.45	31505R	▲
R315.2440.02	4	6	3.3	0.55	2.45	5.45	31505R	▲
R315.3050.02	5	5	4	0.7	3.07	6.5	31506R	▲
R315.3660.02	6	4	4.1	0.85	3.68	7	31507R	▲
L315.0610.02	1	25	4.5	0.14	0.61	5.45	31505L	▲
L315.0712.02	1.25	20	4.5	0.15	0.77	5.45	31505L	Δ
L315.0915.02	1.5	16	4.15	0.2	0.92	5.45	31505L	▲
L315.1017.02	1.75	14	4.15	0.25	1.07	5.45	31505L	Δ
L315.1220.02	2	12	4.15	0.25	1.23	5.45	31505L	▲
L315.1525.02	2.5	10	3.8	0.35	1.55	5.45	31505L	Δ
L315.1830.02	3	8	3.6	0.4	1.84	5.45	31505L	▲
L315.2135.02	3.5	7	3.4	0.5	2.15	5.45	31505L	Δ
L315.2440.02	4	6	3.3	0.55	2.45	5.45	31505L	▲
L315.3050.02	5	5	4	0.7	3.07	6.5	31506L	Δ
L315.3660.02	6	4	4.1	0.85	3.68	7	31507L	Δ

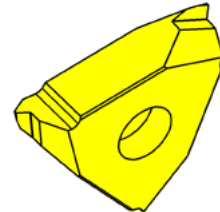
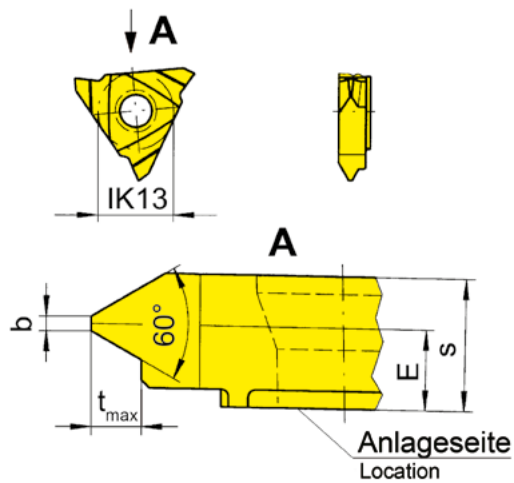
No shims necessary. All HORN thread profiles are manufactured with **full ground radial clearance**.

External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-



Q

Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	TPI	E	t_{max}	b	s	D_{min}	HIS	TN35
R315.0510.02	1	25	4.85	0.55	0.12	5.45	40	31505R	Δ
R315.0815.02	1.5	20	4.65	0.81	0.18	5.45	40	31505R	▲
R315.1020.02	2	16	4.45	1.08	0.25	5.45	40	31505R	▲
R315.1325.02	2.5	14	4.25	1.35	0.31	5.45	43	31505R	▲
R315.1630.02	3	12	4.05	1.62	0.37	5.45	43	31505R	▲
R315.1835.02	3.5	10	3.9	1.89	0.43	5.45	43	31505R	Δ
L315.0510.02	1	25	4.85	0.55	0.12	5.45	40	31505L	Δ
L315.0815.02	1.5	20	4.65	0.81	0.18	5.45	40	31505L	Δ
L315.1020.02	2	16	4.45	1.08	0.25	5.45	40	31505L	Δ
L315.1325.02	2.5	14	4.25	1.35	0.31	5.45	43	31505L	Δ
L315.1630.02	3	12	4.05	1.62	0.37	5.45	43	31505L	Δ
L315.1835.02	3.5	10	3.9	1.89	0.43	5.45	43	31505L	Δ

No shims necessary. All HORN thread profiles are manufactured with **full ground radial clearance**.

Internal machining:

Right hand insert in right hand toolholder 333/357, left hand insert in left hand toolholder 333/357

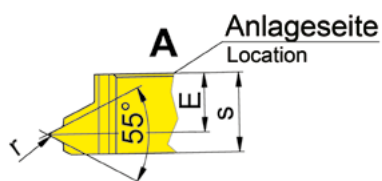
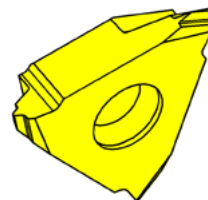
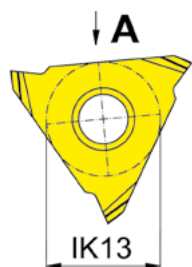
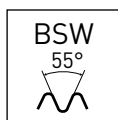
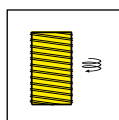
Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-

Indexable insert

External threading

315



Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	TPI	E	r	s	HIS	TH35
R315.5528.02	28	4.35	0.11	5.45	31505R	▲
R315.5519.02	19	4.05	0.17	5.45	31505R	▲
R315.5514.02	14	3.75	0.23	5.45	31505R	▲
R315.5511.02	11	3.55	0.3	5.45	31505R	▲
L315.5528.02	28	4.35	0.11	5.45	31505L	▲
L315.5519.02	19	4.05	0.17	5.45	31505L	▲
L315.5514.02	14	3.75	0.23	5.45	31505L	▲
L315.5511.02	11	3.55	0.3	5.45	31505L	▲

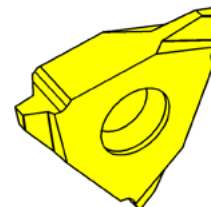
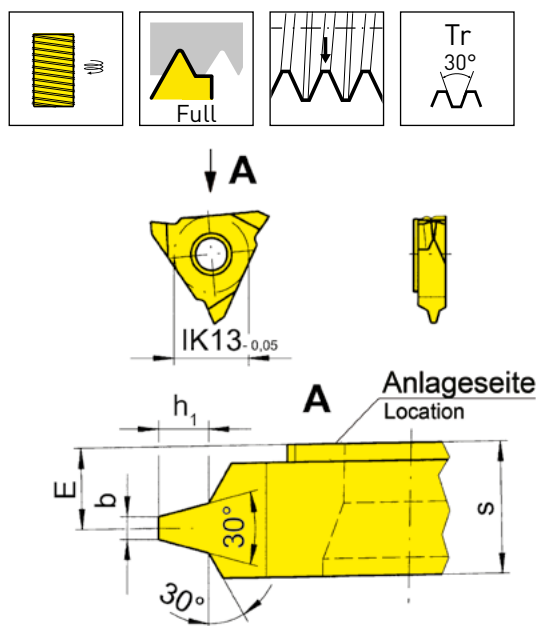
No shims necessary. All HORN thread profiles are manufactured with **full ground radial clearance**.

External machining:

Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

Dimensions in mm

P	●
M	●
K	-
N	-
S	-
H	-



Q

Coating grades

R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	P	E	h_1	b	s	D_{min}	HIS	TN35
R315.1015.02	1.5	4.5	0.9	0.47	5.45	43	31505R	▲
R315.1320.02	2	4.3	1.25	0.6	5.45	43	31505R	▲
R315.1730.02	3	4	1.75	0.96	5.45	43	31505R	▲
R315.2240.02	4	3.6	2.25	1.33	5.45	43	31505R	▲
R315.2750.02	5	3.3	2.75	1.7	5.45	43	31505R	▲
R315.3560.02	6	3	3.5	1.93	5.45	43	31505R	▲
L315.1015.02	1.5	4.5	0.9	0.47	5.45	43	31505L	Δ
L315.1320.02	2	4.3	1.25	0.6	5.45	43	31505L	Δ
L315.1730.02	3	4	1.75	0.96	5.45	43	31505L	▲
L315.2240.02	4	3.6	2.25	1.33	5.45	43	31505L	▲
L315.2750.02	5	3.3	2.75	1.7	5.45	43	31505L	▲
L315.3560.02	6	3	3.5	1.93	5.45	43	31505L	▲

Metric ISO trapezoidal thread DIN 103

External machining:

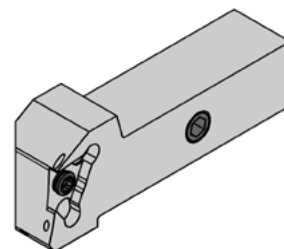
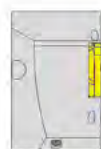
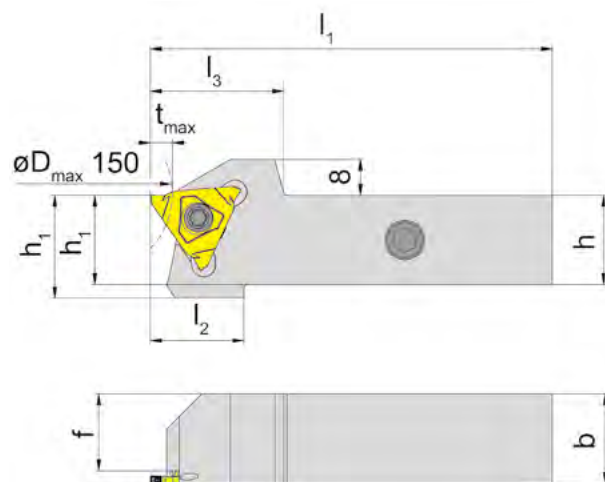
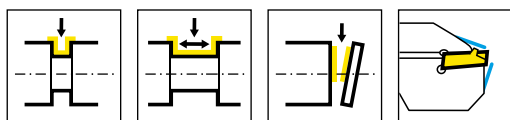
Right hand insert in right hand toolholder 356, left hand insert in left hand toolholder 356.

Internal machining:

Right hand insert in left hand toolholder 333/357, left hand insert in right hand toolholder 333/357.

Dimensions in mm

P	●
M	-
K	●
N	-
S	-
H	-



R = right hand version shown

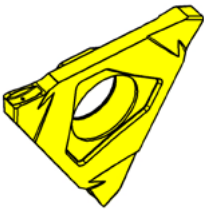
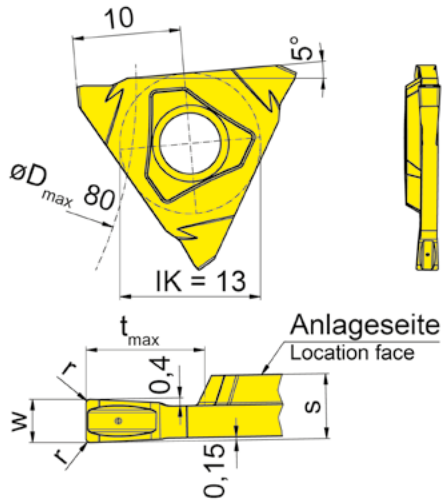
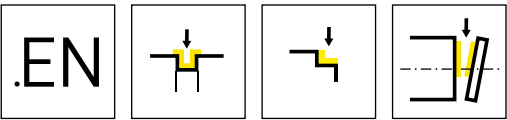
L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f	t_{max}	HWS
RH315.1616.06.SA.03.IK	16	16	75	21	30	16	13.2	6	S31503R
RH315.2020.06.SA.03.IK	20	20	90	21	30	20	17.2	6	S31503R
RH315.2525.06.SA.03.IK	25	25	105	21	30	25	22.2	6	S31503R
LH315.1616.06.SA.03.IK	16	16	75	21	30	16	13.2	6	S31503L
LH315.2020.06.SA.03.IK	20	20	90	21	30	20	17.2	6	S31503L
LH315.2525.06.SA.03.IK	25	25	105	21	30	25	22.2	6	S31503L

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
R/LH315...	5.12T20P	004.00.16	T20PQ	6 Nm



R = right hand version shown

L = left hand version

▲ In stock

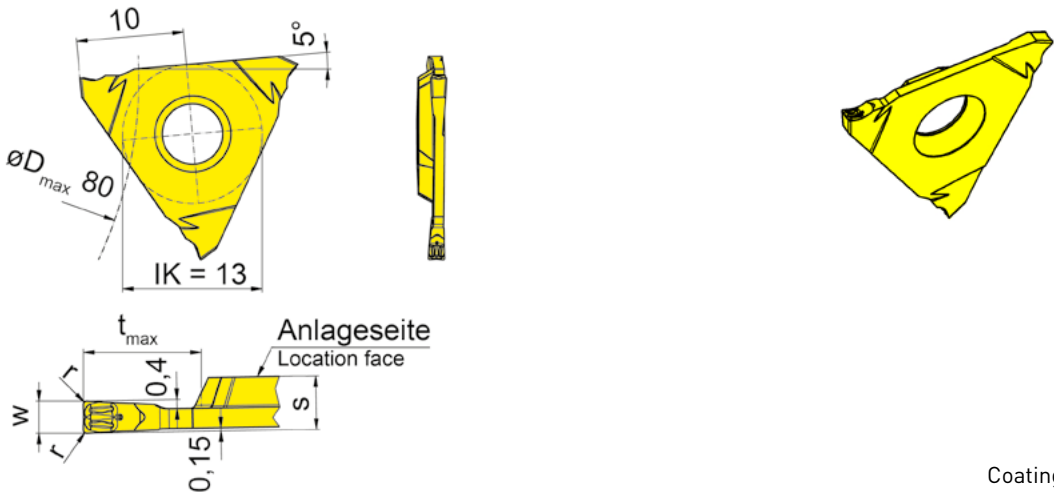
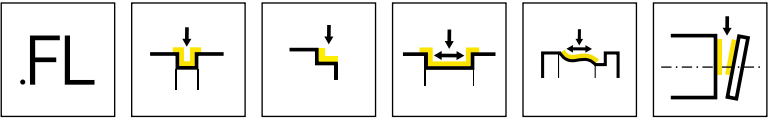
Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	EG5G
RS315.0200.EN2	2	0.2	5.5	3	S31503R	▲
LS315.0200.EN2	2	0.2	5.5	3	S31503L	▲

Dimensions in mm

P	●
M	o
K	o
N	-
S	-
H	-

Q

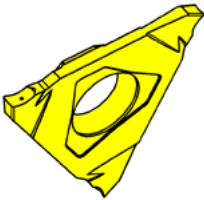
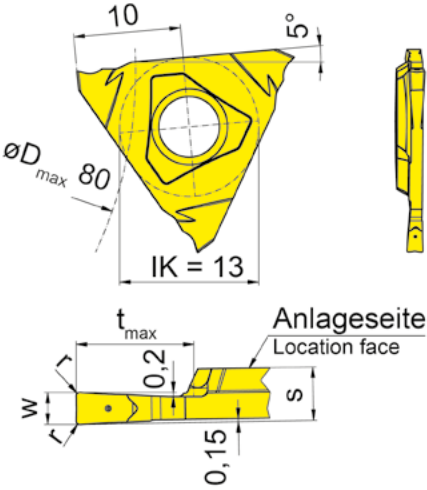
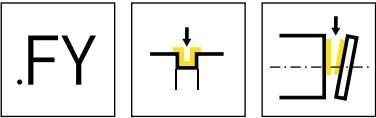


R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	EG55	
RS315.0150.FL15	1.5	0.15	5.5	2.5	S31503R	▲	
LS315.0150.FL15	1.5	0.15	5.5	2.5	S31503L	▲	
Dimensions in mm						P	●
						M	●
						K	○
						N	-
						S	-
						H	-



R = right hand version shown

L = left hand version

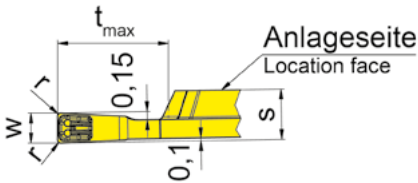
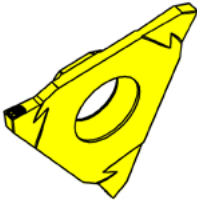
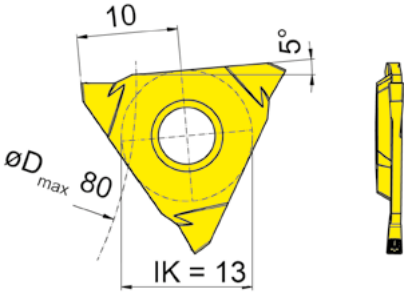
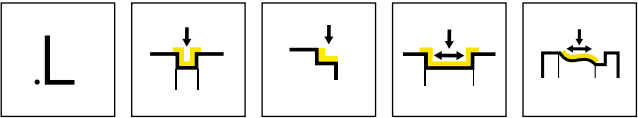
Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	EG55
RS315.0150.FY15	1.5	0.15	5.5	2.5	S31503R	▲
RS315.0200.FY2	2	0.2	5.5	3	S31503R	▲
LS315.0150.FY15	1.5	0.15	5.5	2.5	S31503L	▲
LS315.0200.FY2	2	0.2	5.5	3	S31503L	▲

Dimensions in mm

P	•
M	•
K	•
N	-
S	-
H	-

Q



R = right hand version shown

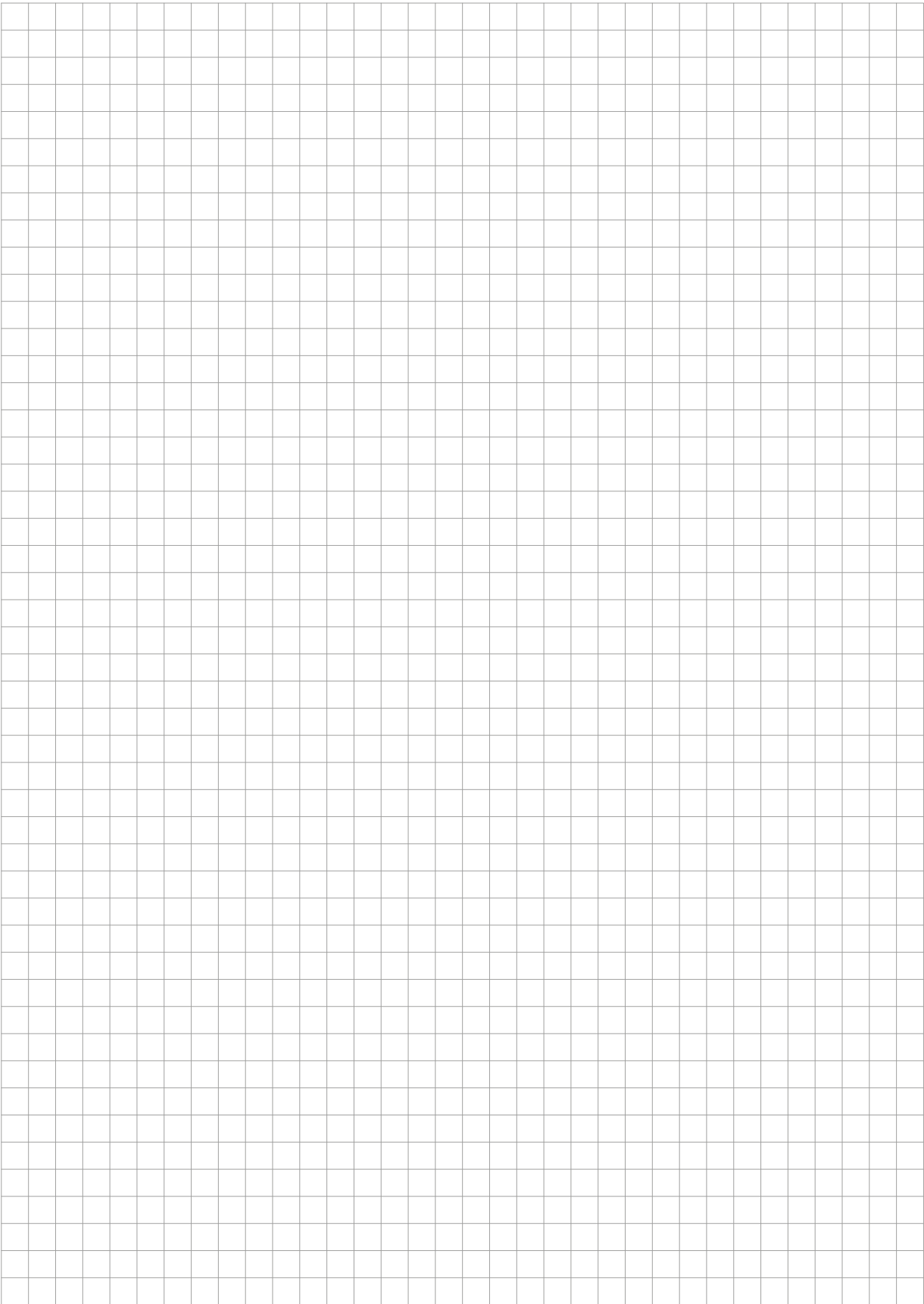
L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	EG55
RS315.0110.L1	1.1	0.1	5.5	2.5	S31503R	▲
RS315.0130.L1	1.3	0.1	5.5	2.5	S31503R	▲
RS315.0150.L15	1.5	0.15	5.5	2.5	S31503R	▲
RS315.0200.L2	2	0.2	5.5	3	S31503R	▲
LS315.0110.L1	1.1	0.1	5.5	2.5	S31503L	▲
LS315.0130.L1	1.3	0.1	5.5	2.5	S31503L	▲
LS315.0150.L15	1.5	0.15	5.5	2.5	S31503L	▲
LS315.0200.L2	2	0.2	5.5	3	S31503L	▲

Dimensions in mm

P	•
M	•
K	o
N	-
S	-
H	-





R

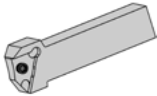
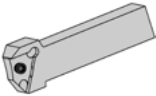
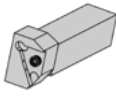
SYSTEM 316

EXTERNAL GROOVING, SIDE TURNING AND PARTING OFF

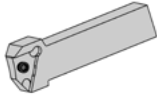
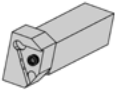
.059"-.118", 1.5-3mm width

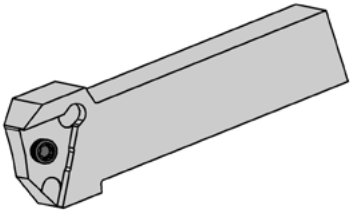
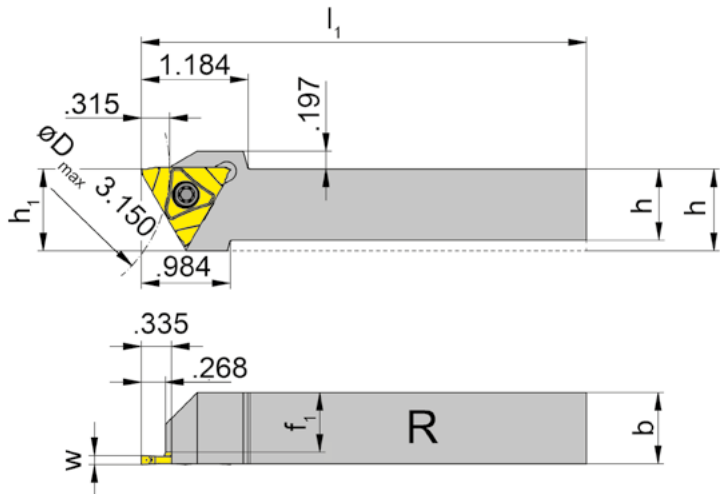
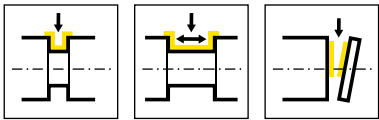
System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Square Shank		
			
	Page 588	Page 589-591	Page 592
	Groove, Turn, Part Off Inch Shank	Groove, Turn, Part Off Metric Shank	Grooving and Turning Cranked, Metric Shank

INSERTS	Grooving, Side Turning, Parting Off		
			
	Page 593	Page 594	Page 595
	.5 Chipbreaker Grooving and Turning	.EN Chipbreaker Grooving, Part Off	.FY Chipbreaker Grooving, Part Off

HOLDERS	Grooving, Side Turning, Parting Off - For Fully Ground Special Inserts	
		
	Page 596	Page 597
	Groove, Turn, Part Off Metric Shank	Cranked Metric Shank



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	HWS
RHU316.0500.S3.03	.500	.500	3.937	.500	.370	S31603R
RHU316.0750.S3.03	.750	.750	5.000	.906	.620	S31603R
RHU316.1000.S3.03	1.000	1.000	6.000	1.000	.870	S31603R
RHU316.1250.S3.03	1.250	1.000	6.693	1.250	.870	S31603R
LHU316.0500.S3.03	.500	.500	3.937	.500	.370	S31603L
LHU316.0750.S3.03	.750	.750	5.000	.906	.620	S31603L
LHU316.1000.S3.03	1.000	1.000	6.000	1.000	.870	S31603L
LHU316.1250.S3.03	1.250	1.000	6.693	1.250	.870	S31603L

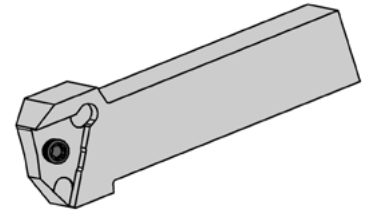
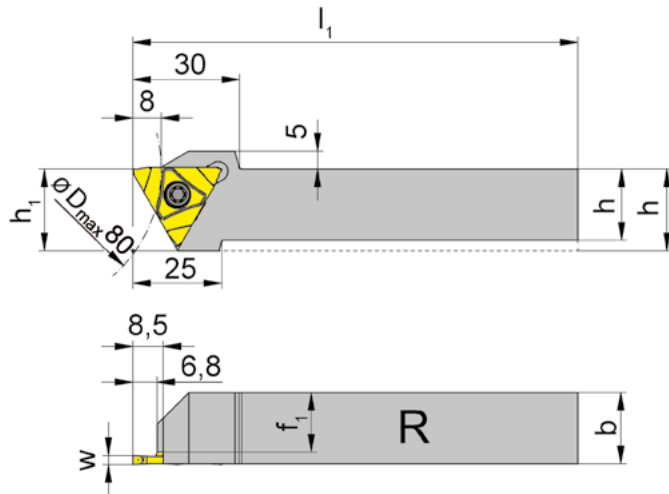
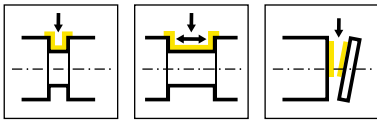
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHU316...	5.12T20P	T20PQ	6.5 Nm



R

R = right hand version shown

L = left hand version

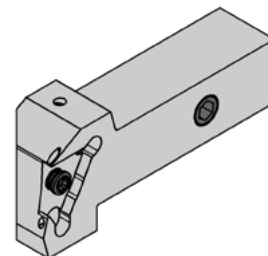
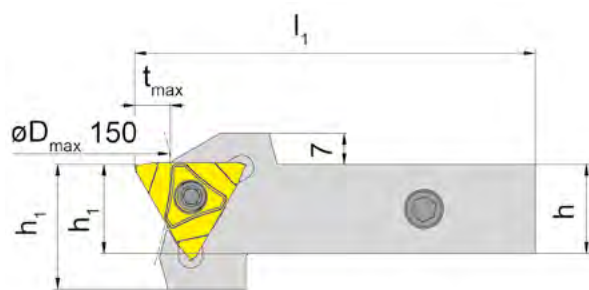
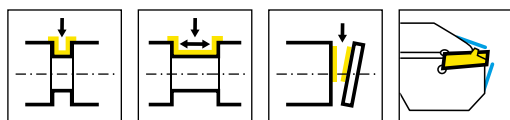
Part number	h	b	l ₁	h ₁	f ₁	t _{max}	HWS
RH316.1616.S3.03	16	16	125	23	12.7	8	S31603R
RH316.2020.S3.03	20	20	125	23	16.7	8	S31603R
RH316.2525.S3.03	25	25	150	25	21.7	8	S31603R
RH316.3225.S3.03	32	25	150	32	21.7	8	S31603R
LH316.1616.S3.03	16	16	125	23	12.7	8	S31603L
LH316.2020.S3.03	20	20	125	23	16.7	8	S31603L
LH316.2525.S3.03	25	25	150	25	21.7	8	S31603L
LH316.3225.S3.03	32	25	150	32	21.7	8	S31603L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH316...	5.12T20P	T20PQ	6.5 Nm



R

R = right hand version shown

L = left hand version

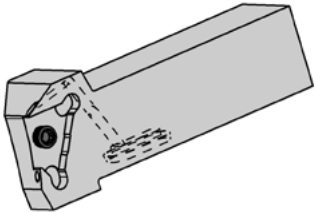
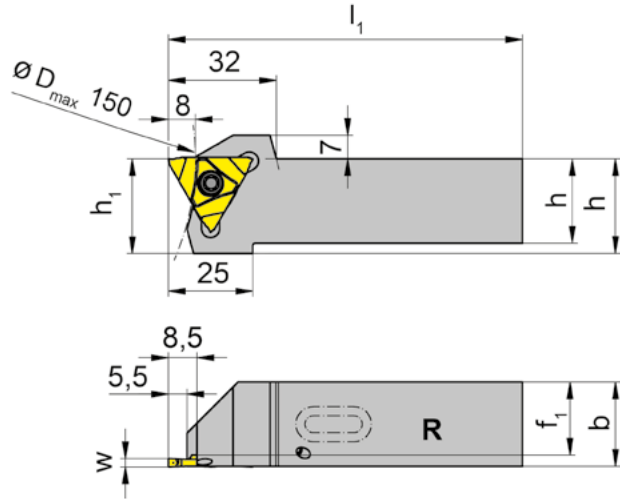
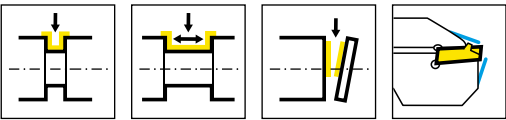
Part number	h	b	l	h ₁	f	t _{max}	HWS
RH316.1616.08.SA.03.IK	16	16	75	24	12.7	8	S31603R
RH316.2020.08.SA.03.IK	20	20	90	28	16.7	8	S31603R
RH316.2020.08.SA.05.IK	20	20	90	28	14.8	8	S31605R
RH316.2525.08.SA.03.IK	25	25	105	28	21.7	8	S31603R
RH316.2525.08.SA.05.IK	25	25	105	28	19.8	8	S31605R
LH316.1616.08.SA.03.IK	16	16	75	24	12.7	8	S31603L
LH316.2020.08.SA.03.IK	20	20	90	28	16.7	8	S31603L
LH316.2020.08.SA.05.IK	20	20	90	28	14.8	8	S31605L
LH316.2525.08.SA.03.IK	25	25	105	28	21.7	8	S31603L
LH316.2525.08.SA.05.IK	25	25	105	28	19.8	8	S31605L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Torque Value
R/LH316...	5.12T20P	004.00.16	T20PQ	6.5 Nm



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	t _{max}	HWS
RH316.2020.S3.03.IK	20	20	90	28	16.7	8	S31603R
RH316.2525.S3.03.IK	25	25	105	28	21.7	8	S31603R
RH316.2020.S5.05.IK	20	20	90	28	14.8	8	S31605R
LH316.2525.S3.03.IK	25	25	105	28	21.7	8	S31603L

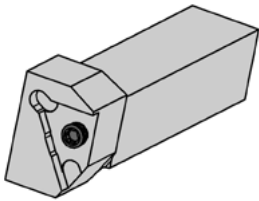
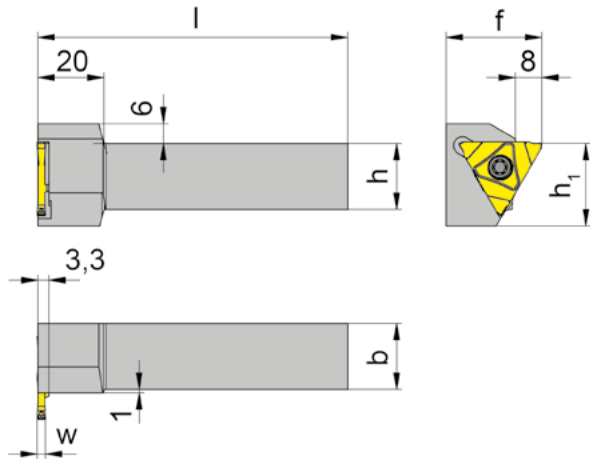
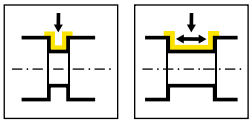
For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH316...	5.12T20P	T20PQ	6.5 Nm

R



R = right hand version shown

L = left hand version

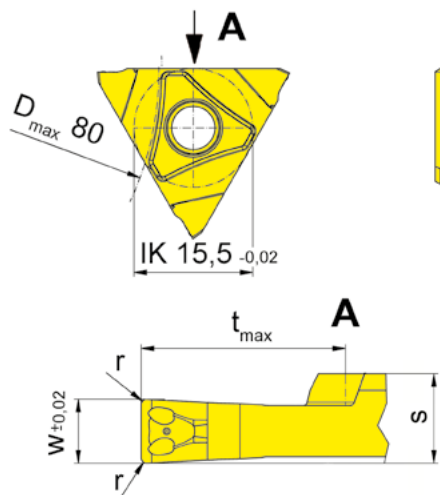
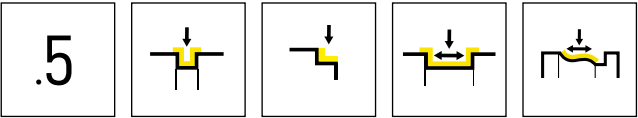
Part number	h	b	l	h ₁	f	t _{max}	HWS
RHC316.1616.S3.03	16	16	125	25	29	8	S31603L
RHC316.2020.S3.03	20	20	125	25	29	8	S31603L
RHC316.2525.S3.03	25	25	150	25	34	8	S31603L
RHC316.3225.S3.03	32	25	150	32	34	8	S31603L
LHC316.1616.S3.03	16	16	125	25	29	8	S31603R
LHC316.2020.S3.03	20	20	125	25	29	8	S31603R
LHC316.2525.S3.03	25	25	150	25	34	8	S31603R
LHC316.3225.S3.03	32	25	150	32	34	8	S31603R

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LHC316...	5.12T20P	T20PQ	6.5 Nm



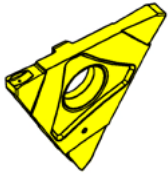
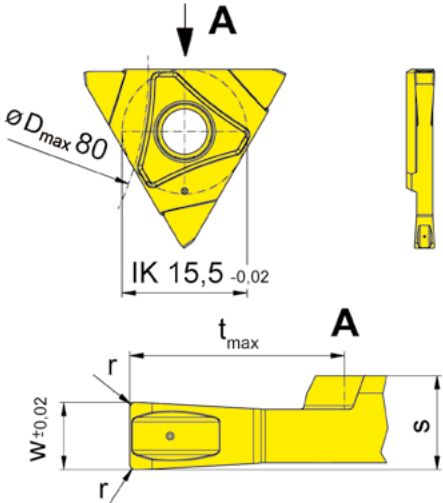
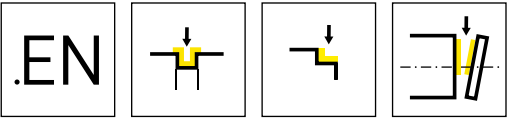
R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	AS45
RS316.0200.52	2	0.2	8	3.5	S31603R	▲
RS316.0250.52	2.5	0.2	8	3.5	S31603R	▲
RS316.0300.52	3	0.2	8	3.5	S31603R	▲
LS316.0200.52	2	0.2	8	3.5	S31603L	▲
LS316.0250.52	2.5	0.2	8	3.5	S31603L	▲
LS316.0300.52	3	0.2	8	3.5	S31603L	▲
Dimensions in mm						P ●
						M o
						K o
						N -
						S -
						H -

R



Coating grades

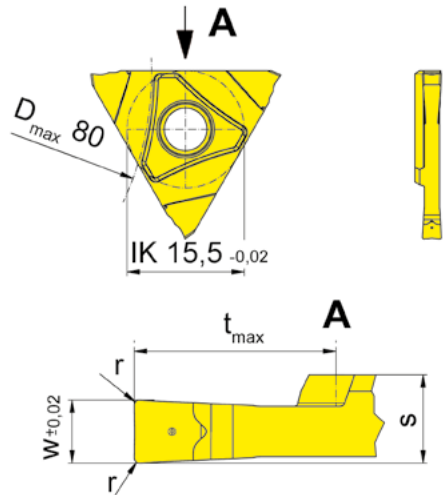
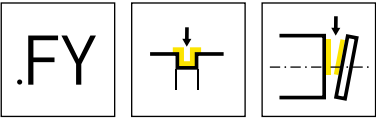
R = right hand version shown

L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	AS6G
RS316.0200.EN2	2	0.2	8	3.5	S31603R	▲
RS316.0250.EN2	2.5	0.2	8	3.5	S31603R	▲
RS316.0300.EN2	3	0.2	8	3.5	S31603R	▲
LS316.0200.EN2	2	0.2	8	3.5	S31603L	▲
LS316.0250.EN2	2.5	0.2	8	3.5	S31603L	▲
LS316.0300.EN2	3	0.2	8	3.5	S31603L	▲
Dimensions in mm						P ●
						M ●
						K ○
						N -
						S -
						H -



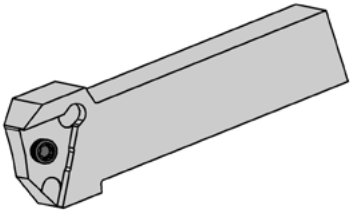
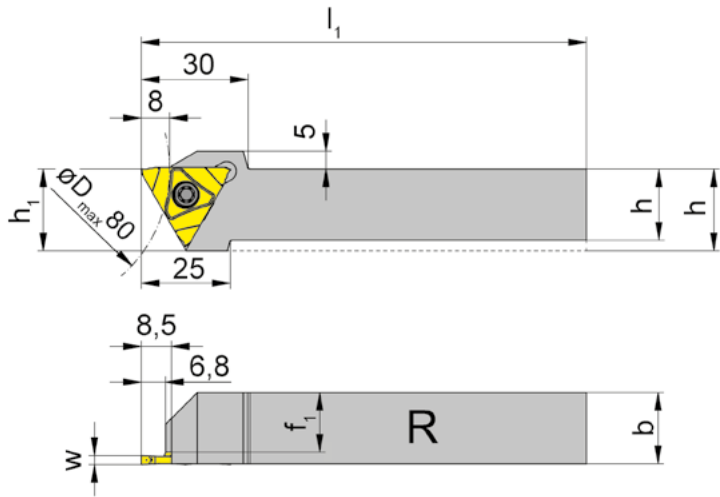
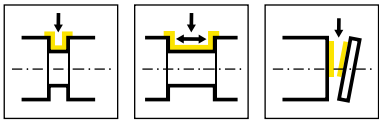
R = right hand version shown

L = left hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	s	HIS	Ti25
RS316.0150.FY1	1.5	0.1	8	3.3	S31603R	▲
RS316.0200.FY2	2	0.2	8	3.5	S31603R	▲
RS316.0250.FY2	2.5	0.2	8	3.5	S31603R	▲
RS316.0300.FY2	3	0.2	8	3.5	S31603R	▲
LS316.0150.FY1	1.5	0.1	8	3.3	S31603L	▲
LS316.0200.FY2	2	0.2	8	3.5	S31603L	▲
LS316.0250.FY2	2.5	0.2	8	3.5	S31603L	▲
LS316.0300.FY2	3	0.2	8	3.5	S31603L	▲
Dimensions in mm						P ●
						M ●
						K -
						N o
						S -
						H -

R



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	HWS
RH316.2525.03	25	25	150	25	21.7	31603R
LH316.2525.03	25	25	150	25	21.7	31603L

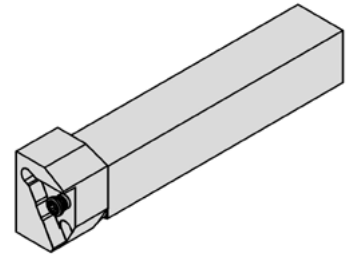
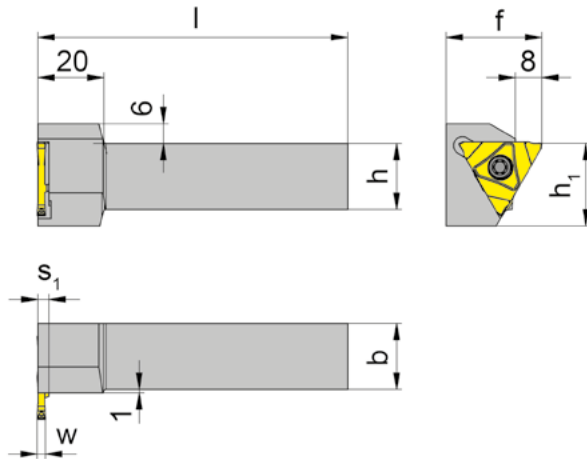
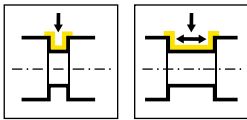
For fully ground special inserts

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH316.2525.03	5.12T20P	T20PQ	6.5 Nm


R

R = right hand version shown

L = left hand version

Part number	h	b	l	h ₁	f	s ₁	HWS
RHC316.2020.03	20	20	125	25	29	3.3	31603L
RHC316.2020.05	20	20	125	25	29	5.2	31605L
RHC316.2525.03	25	25	150	25	34	3.3	31603L
RHC316.3225.03	32	25	150	32	34	3.3	31603L
LHC316.2525.03	25	25	150	25	34	3.3	31603R
LHC316.3225.03	32	25	150	32	34	3.3	31603R
LHC316.3225.05	32	25	150	32	34	5.2	31605R

For fully ground special inserts

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
LHC316...	5.12T20P	T20PQ	6.5 Nm

This image shows a full page of blank graph paper. The grid consists of small, uniform squares formed by thin, light gray lines. There are no margins, text, or other markings on the page.

S



SYSTEM 64T

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF, THREADING

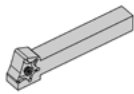
.020"-.124", 0.5-3.15mm width

System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

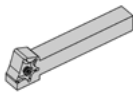
HOLDERS

Square Shank



Page 602

Groove, Turn, Part Off
Inch Shank



Page 603-605

Groove, Turn, Part Off
Metric Shank

INSERTS

Grooving, Turning, Parting Off, Finishing



Page 606

.00 Geometry
Grooving and Part Off



Page 607

DIN Circlip
Grooving



Page 608

.FB Geometry
Finishing



Page 609

Full Radius
Grooving



Page 610

.1A Chipbreaker
Grooving



Page 611

.DL Chipbreaker
Groove, Turn, Part Off

Threading



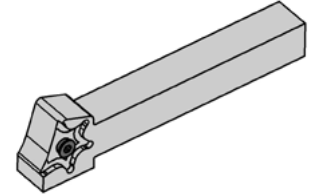
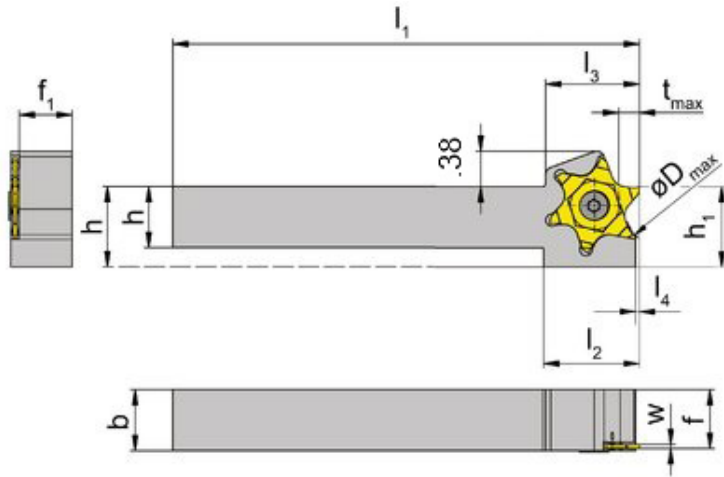
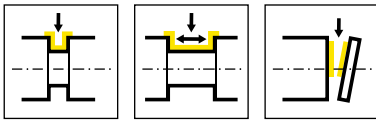
Page 612

Full Profile
60° Threading



Page 613

Full Profile
55° BSW Thread



L = left hand version shown

R = right hand version

Part number	h	b	l ₁	l ₃	h ₁	f ₁	f	HWS
RHU64T.0500.10	.500	.500	4.921	.965	.511	.437	f ₁ +w+a ₁	64T01N
RHU64T.0500.20	.500	.500	4.921	.965	.511	.396	f ₁ +w+a ₁	64T02N
RHU64T.0625.10	.625	.625	4.921	.965	.625	.561	f ₁ +w+a ₁	64T01N
RHU64T.0625.20	.625	.625	4.921	.965	.822	.522	f ₁ +w+a ₁	64T02N
RHU64T.0750.10	.750	.750	4.921	.965	.947	.686	f ₁ +w+a ₁	64T01N
RHU64T.0750.20	.750	.750	4.921	.965	.947	.646	f ₁ +w+a ₁	64T02N
RHU64T.1000.10	1.000	1.000	4.921	.965	1.000	.936	f ₁ +w+a ₁	64T01N
RHU64T.1000.20	1.000	1.000	4.921	.965	1.000	.896	f ₁ +w+a ₁	64T02N
LHU64T.0500.10	.500	.500	4.921	.965	.511	.437	f ₁ +w+a ₁	64T01N
LHU64T.0500.20	.500	.500	4.921	.965	.511	.396	f ₁ +w+a ₁	64T02N
LHU64T.0625.10	.625	.625	4.921	.965	.625	.561	f ₁ +w+a ₁	64T01N
LHU64T.0625.20	.625	.625	4.921	.965	.822	.522	f ₁ +w+a ₁	64T02N
LHU64T.0750.10	.750	.750	4.921	.965	.947	.686	f ₁ +w+a ₁	64T01N
LHU64T.0750.20	.750	.750	4.921	.965	.947	.646	f ₁ +w+a ₁	64T02N
LHU64T.1000.10	1.000	1.000	4.921	.965	1.000	.936	f ₁ +w+a ₁	64T01N
LHU64T.1000.20	1.000	1.000	4.921	.965	1.000	.896	f ₁ +w+a ₁	64T02N

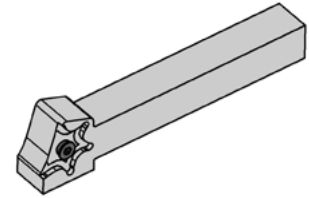
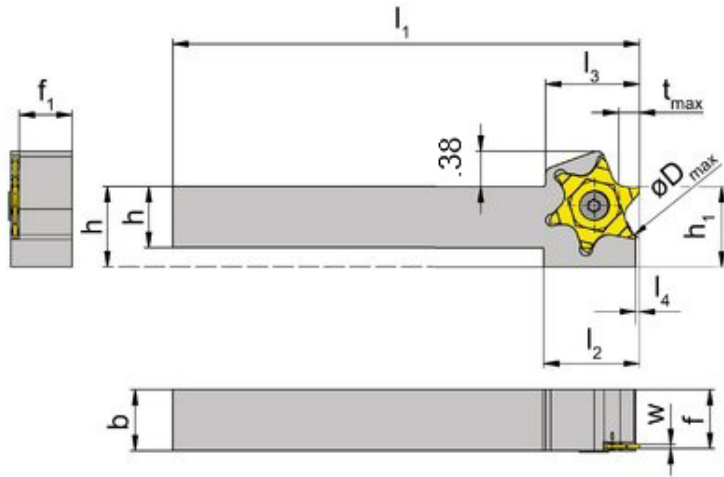
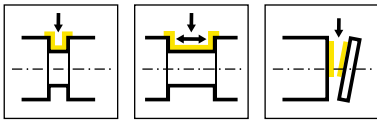
For the (w) dimension, see inserts

Dimensions in inch



Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH64T...10	004.00.22	030.4010.T15P	T15PQ	-	4 Nm
R/LH64T...20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm



L = left hand version shown

R = right hand version

S

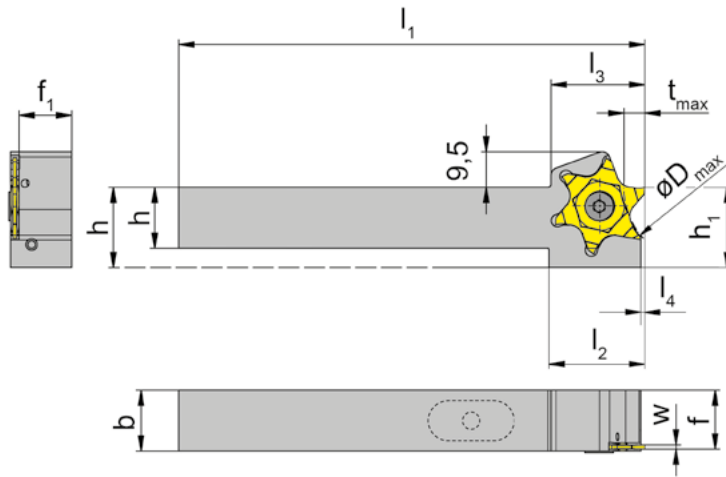
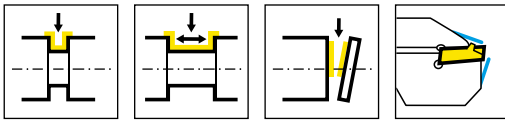
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	l ₄	HWS
RH64T.1212.10	12	12	125	25	25.4	19	9.8	f ₁ +w+a ₁	1	64T01N
RH64T.1616.10	16	16	125	25	25.4	21	13.8	f ₁ +w+a ₁	1	64T01N
RH64T.2020.10	20	20	125	25	25.4	25	17.8	f ₁ +w+a ₁	1	64T01N
RH64T.2525.10	25	25	125	-	25.4	25	22.8	f ₁ +w+a ₁	1	64T01N
RH64T.1212.20	12	12	125	25	25.4	19	9.3	f ₁ +w+a ₁	1	64T02N
RH64T.1616.20	16	16	125	25	25.4	21	13.3	f ₁ +w+a ₁	1	64T02N
RH64T.2020.20	20	20	125	25	25.4	25	17.3	f ₁ +w+a ₁	1	64T02N
RH64T.2525.20	25	25	125	-	25.4	25	22.3	f ₁ +w+a ₁	1	64T02N
LH64T.1212.10	12	12	125	25	25.4	19	9.8	f ₁ +w+a ₁	1	64T01N
LH64T.1616.10	16	16	125	25	25.4	21	13.8	f ₁ +w+a ₁	1	64T01N
LH64T.2020.10	20	20	125	25	25.4	25	17.8	f ₁ +w+a ₁	1	64T01N
LH64T.2525.10	25	25	125	-	25.4	25	22.8	f ₁ +w+a ₁	1	64T01N
LH64T.1212.20	12	12	125	25	25.4	19	9.3	f ₁ +w+a ₁	1	64T02N
LH64T.1616.20	16	16	125	25	25.4	21	13.3	f ₁ +w+a ₁	1	64T02N
LH64T.2020.20	20	20	125	25	25.4	25	17.3	f ₁ +w+a ₁	1	64T02N
LH64T.2525.20	25	25	125	-	25.4	25	22.3	f ₁ +w+a ₁	1	64T02N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH64T...10	004.00.22	030.4010.T15P	T15PQ	-	4 Nm
R/LH64T...20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm



L = left hand version shown

R = right hand version

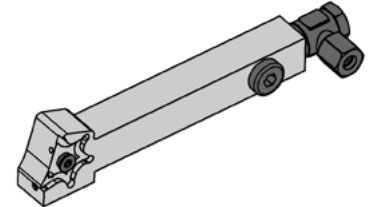
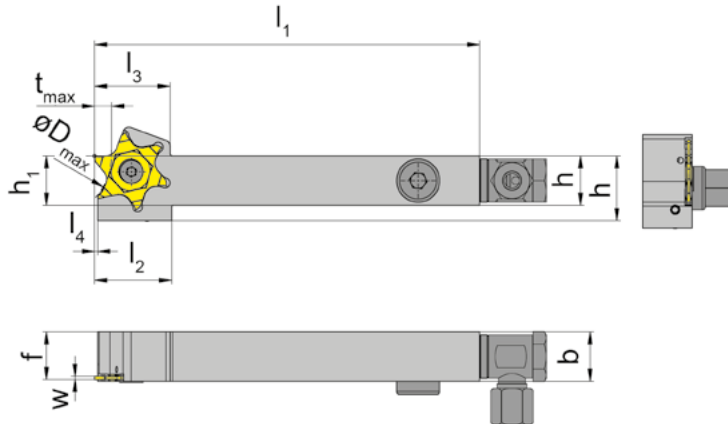
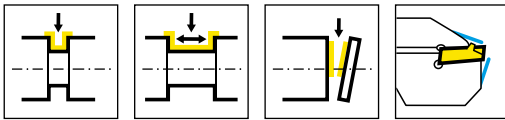
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	l_4	Coolant supply	HWS
RH64T.1616.4.10.IK	16	16	125	25	24.5	21	13.8	$f_1 + w + a_1$	1	VDI	64T01N
RH64T.2020.4.10.IK	20	20	125	25	24.5	25	17.8	$f_1 + w + a_1$	1	VDI	64T01N
RH64T.2525.4.10.IK	25	25	125	25	24.5	25	22.8	$f_1 + w + a_1$	1	VDI	64T01N
RH64T.1616.4.20.IK	16	16	125	25	24.5	21	13.3	$f_1 + w + a_1$	1	VDI	64T02N
RH64T.2020.4.20.IK	20	20	125	25	24.5	25	17.3	$f_1 + w + a_1$	1	VDI	64T02N
RH64T.2525.4.20.IK	25	25	125	25	24.5	25	22.3	$f_1 + w + a_1$	1	VDI	64T02N
LH64T.2020.4.10.IK	20	20	125	25	24.5	25	17.8	$f_1 + w + a_1$	1	VDI	64T01N
LH64T.2525.4.10.IK	25	25	125	25	24.5	30	22.8	$f_1 + w + a_1$	1	VDI	64T01N
LH64T.1616.4.20.IK	16	16	125	25	24.5	21	13.3	$f_1 + w + a_1$	1	VDI	64T02N
LH64T.2020.4.20.IK	20	20	125	25	24.5	25	17.3	$f_1 + w + a_1$	1	VDI	64T02N
LH64T.2525.4.20.IK	25	25	125	25	24.5	30	22.3	$f_1 + w + a_1$	1	VDI	64T02N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH64T...10	004.00.22	030.4010.T15P	T15PQ	-	4 Nm
R/LH64T...20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm



R = right hand version shown

L = left hand version

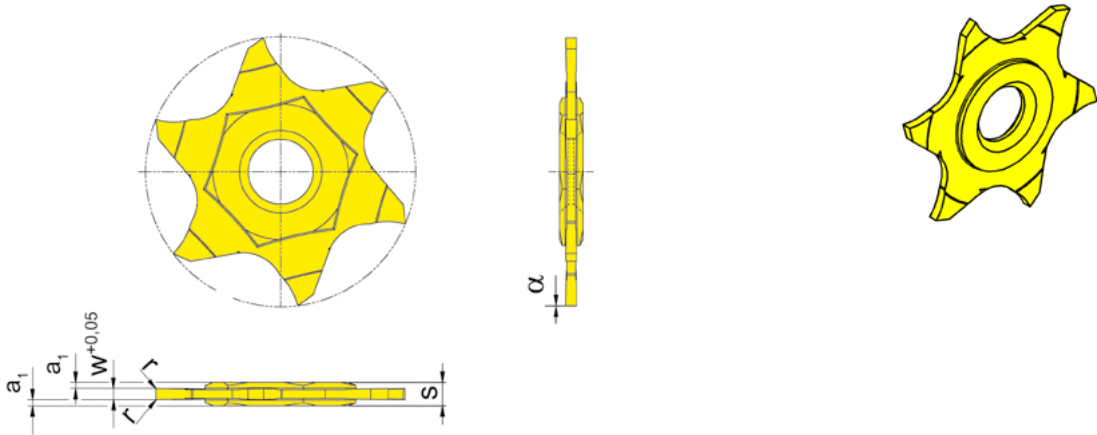
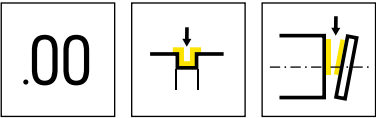
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	l ₄	Coolant supply	HWS
RH64T.1212.6.10.IK	12	12	125	25	24.5	19	9.8	f ₁ +w+a ₁	1	G1/8	64T01N
RH64T.1616.6.10.IK	16	16	125	25	24.5	21	13.8	f ₁ +w+a ₁	1	G1/8	64T01N
RH64T.2020.6.10.IK	20	20	125	25	24.5	25	17.8	f ₁ +w+a ₁	1	G1/8	64T01N
RH64T.2525.6.10.IK	25	25	125	25	24.5	25	22.8	f ₁ +w+a ₁	1	G1/8	64T01N
RH64T.1212.6.20.IK	12	12	125	25	24.5	19	9.3	f ₁ +w+a ₁	1	G1/8	64T02N
RH64T.1616.6.20.IK	16	16	125	25	24.5	21	13.3	f ₁ +w+a ₁	1	G1/8	64T02N
RH64T.2020.6.20.IK	20	20	125	25	24.5	25	17.3	f ₁ +w+a ₁	1	G1/8	64T02N
RH64T.2525.6.20.IK	25	25	125	25	24.5	25	22.3	f ₁ +w+a ₁	1	G1/8	64T02N
LH64T.1212.6.10.IK	12	12	125	25	24.5	19	9.8	f ₁ +w+a ₁	1	G1/8	64T01N
LH64T.1616.6.10.IK	16	16	125	25	24.5	21	13.8	f ₁ +w+a ₁	1	G1/8	64T01N
LH64T.2020.6.10.IK	20	20	125	25	24.5	25	17.8	f ₁ +w+a ₁	1	G1/8	64T01N
LH64T.2525.6.10.IK	25	25	125	25	24.5	25	22.8	f ₁ +w+a ₁	1	G1/8	64T01N
LH64T.1212.6.20.IK	12	12	125	25	24.5	19	9.3	f ₁ +w+a ₁	1	G1/8	64T02N
LH64T.1616.6.20.IK	16	16	125	25	24.5	21	13.3	f ₁ +w+a ₁	1	G1/8	64T02N
LH64T.2020.6.20.IK	20	20	125	25	24.5	25	17.3	f ₁ +w+a ₁	1	G1/8	64T02N
LH64T.2525.6.20.IK	25	25	125	25	24.5	25	22.3	f ₁ +w+a ₁	1	G1/8	64T02N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

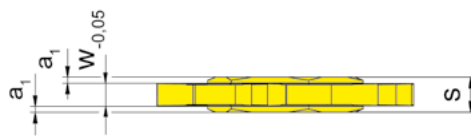
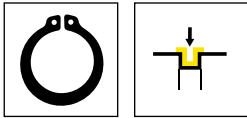
Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LH64T...10	004.00.22	030.4010.T15P	T15PQ	-	4 Nm
R/LH64T...20	004.00.16	030.4010.T15P	T15PQ	004.00.26	5 Nm



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	a ₁	s	α	HIS	EG55	IG35
S64T.0010.00	1	-	0.58	2.2	0°	64T01N	▲	▲
S64T.0015.00	1.5	-	0.34	2.2	0°	64T01N	▲	Δ
S64T.0010.01	1	0.1	0.58	2.2	0°	64T01N	Δ	Δ
S64T.0015.01	1.5	0.1	0.34	2.2	0°	64T01N	Δ	Δ
Dimensions in mm							P	●
							M	●
							K	○
							N	-
							S	-
							H	-



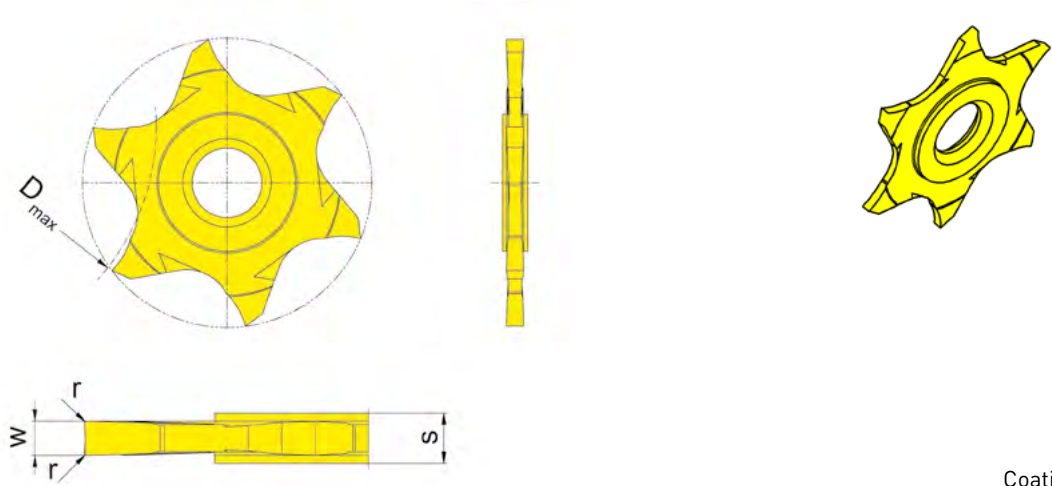
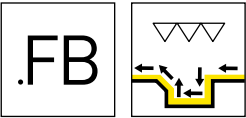
Coating grades

▲ In stock

Δ 2 weeks

S

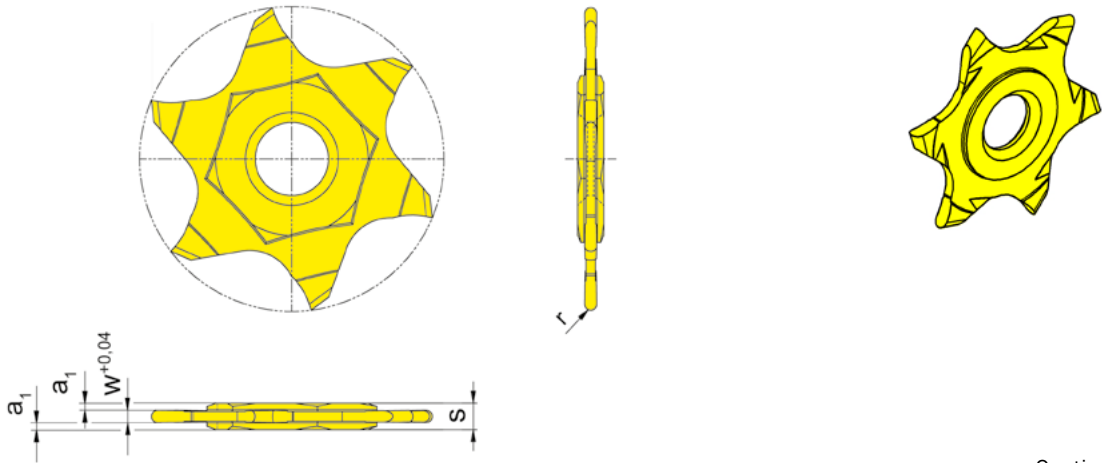
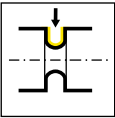
Part number	w	Nw	t _{max}	a ₁	s	HIS		
							EG35	EG55
S64T.0034.00	0.385	0.34	0.6	0.91	2.2	64T01N	Δ	
S64T.0044.00	0.485	0.44	0.7	0.86	2.2	64T01N	Δ	
S64T.0050.00	0.57	0.5	0.7	0.83	2.2	64T01N		▲
S64T.0060.00	0.67	0.6	0.8	0.78	2.2	64T01N		▲
S64T.0070.00	0.77	0.7	1.1	0.73	2.2	64T01N		▲
S64T.0080.00	0.87	0.8	1.2	0.68	2.2	64T01N		▲
S64T.0090.00	0.97	0.9	1.4	0.63	2.2	64T01N		▲
S64T.0100.00	1.07	1	1.6	0.58	2.2	64T01N		▲
S64T.0110.00	1.24	1.1	1.6	0.49	2.2	64T01N		▲
S64T.0130.00	1.44	1.3	2	0.39	2.2	64T01N		▲
S64T.0160.00	1.74	1.6	3.5	0.24	2.2	64T01N		▲
S64T.0185.00	1.99	1.85	3.5	0.12	2.2	64T01N		▲
S64T.0215.00	2.29	2.15	3.5	0.07	2.4	64T01N		▲
S64T.0265.00	2.79	2.65	3.5	0.07	2.9	64T02N		▲
S64T.0315.00	3.29	3.15	3.5	0.07	3.4	64T02N		▲
Widths for circlip grooves DIN 471/472							P	•
Dimensions in mm							M	•
							K	o
							N	-
							S	-
							H	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	s	HIS		EG35	IG35
S64T.FB10.01	1	0.1	2.2	64T01N	▲	Δ	
S64T.FB15.01	1.5	0.1	2.2	64T01N	▲	Δ	
Dimensions in mm					P	●	●
					M	●	●
					K	○	●
					N	-	○
					S	-	●
					H	-	-



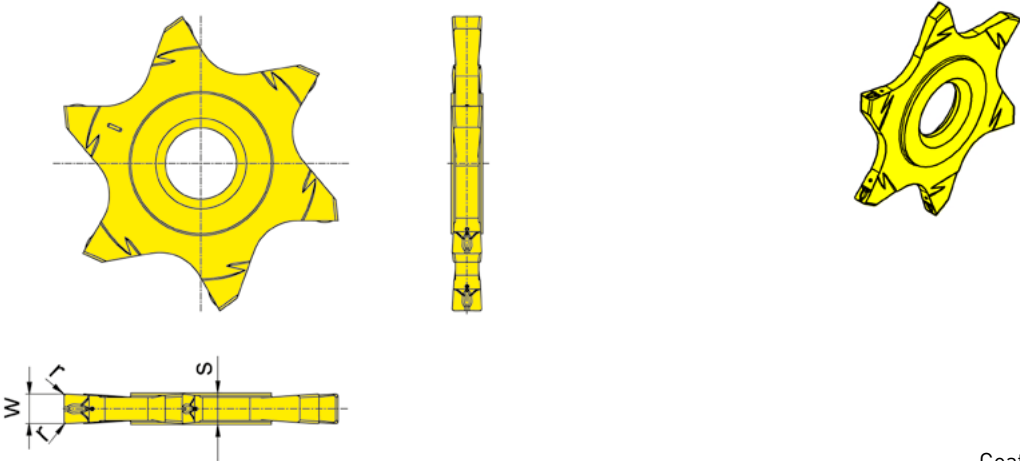
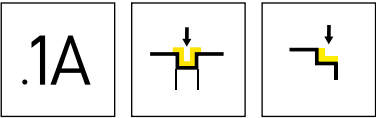
Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	a ₁	s	HIS	EG55
S64T.0100.05	1	0.5	0.59	2.2	64T01N	▲
S64T.0120.06	1.2	0.6	0.49	2.2	64T01N	▲
S64T.0160.08	1.6	0.8	0.29	2.2	64T01N	▲
S64T.0200.10	2	1	0.09	2.2	64T01N	▲
S64T.0250.12	2.5	1.25	0.09	2.7	64T02N	▲
S64T.0300.15	3	1.5	0.09	3.2	64T02N	▲
						P ●
						M ●
						K ○
						N -
						S -
						H -

Dimensions in mm

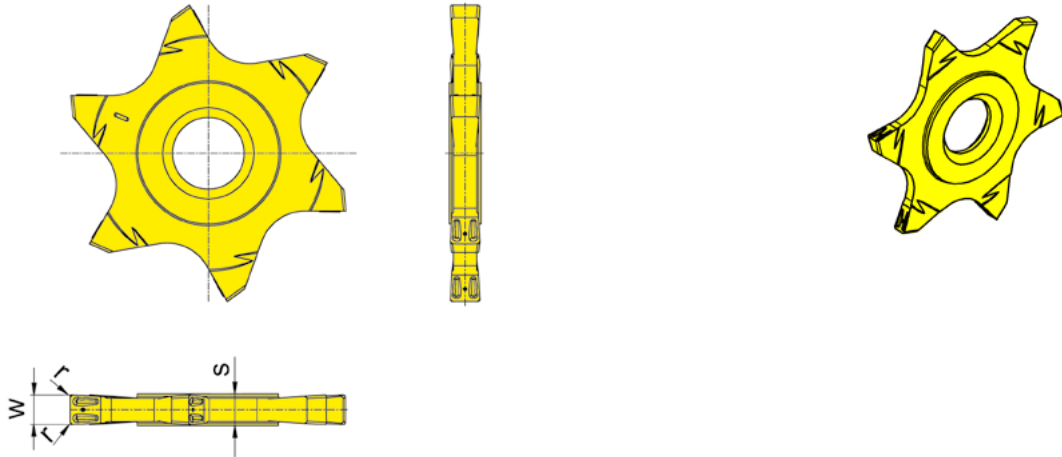
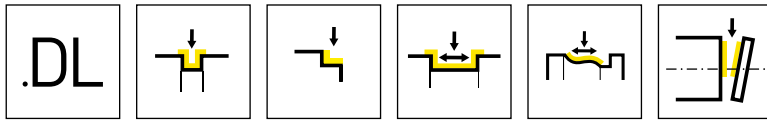
S



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	s	HIS		EG55	IG35
S64T.0150.1A2	1.5	0.2	2.2	64T01N	▲	▲	▲
S64T.0200.1A2	-	0.2	2.2	64T01N	▲	▲	▲
S64T.0250.1A2	2.5	0.2	2.7	64T02N	▲	▲	▲
S64T.0300.1A2	3	0.2	3.2	64T02N	▲	▲	▲
Dimensions in mm					P	●	●
					M	●	●
					K	○	●
					N	-	○
					S	-	○
					H	-	-



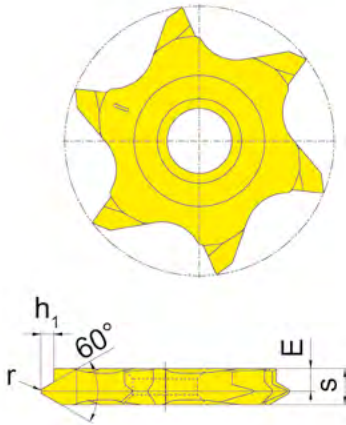
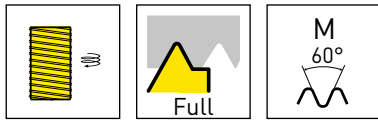
Coating grades

▲ In stock

Δ 2 weeks

S

Part number	w	r	s	HIS	EG55
S64T.0150.DL2	1.5	0.2	2.2	64T01N	▲
S64T.0150.DL4	1.5	0.4	2.2	64T01N	▲
S64T.0200.DL2	2	0.2	2.2	64T01N	▲
S64T.0200.DL4	2	0.4	2.2	64T01N	▲
S64T.0250.DL2	2.5	0.2	2.7	64T02N	▲
S64T.0250.DL4	2.5	0.4	2.7	64T02N	▲
S64T.0300.DL2	3	0.2	3.2	64T02N	▲
S64T.0300.DL4	3	0.4	3.2	64T02N	▲
Dimensions in mm					P ● M ● K ○ N - S - H -



Coating grades

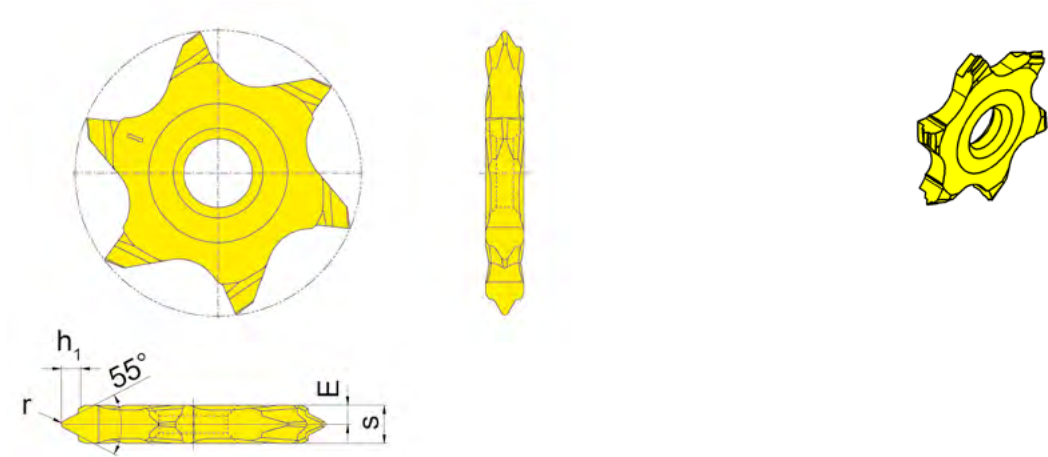
▲ In stock

Δ 2 weeks

Part number	P	TPI	E	r	h ₁	s	HIS	EG55
RS64T.0305.02	0.5	50	2.8	0.07	0.32	3.4	64T02R	▲
RS64T.0306.02	0.6	42	2.75	0.09	0.38	3.4	64T02R	▲
RS64T.0307.02	0.7	36	2.7	0.1	0.44	3.4	64T02R	▲
RS64T.0407.02	0.75	33	2.65	0.1	0.47	3.4	64T02R	▲
RS64T.0408.02	0.8	31	2.6	0.11	0.5	3.4	64T02R	▲
RS64T.0610.02	1	25	2.5	0.14	0.62	3.4	64T02R	▲
RS64T.0712.02	1.25	20	2.5	0.17	0.78	3.4	64T02R	▲
RS64T.0915.02	1.5	16	2.2	0.21	0.93	3.4	64T02R	▲
RS64T.1017.02	1.75	14	2.2	0.25	1.08	3.4	64T02R	▲
RS64T.1220.02	2	12	2.15	0.28	1.24	3.4	64T02R	▲
LS64T.0305.02	0.5	50	2.8	0.07	0.32	3.4	64T02L	Δ
LS64T.0306.02	0.6	42	2.75	0.09	0.38	3.4	64T02L	Δ
LS64T.0307.02	0.7	36	2.7	0.1	0.44	3.4	64T02L	Δ
LS64T.0407.02	0.75	33	2.65	0.1	0.47	3.4	64T02L	Δ
LS64T.0408.02	0.8	31	2.6	0.11	0.5	3.4	64T02L	Δ
LS64T.0610.02	1	25	2.5	0.14	0.62	3.4	64T02L	Δ
LS64T.0712.02	1.25	20	2.5	0.17	0.78	3.4	64T02L	Δ
LS64T.0915.02	1.5	16	2.2	0.21	0.93	3.4	64T02L	Δ
LS64T.1017.02	1.75	14	2.2	0.25	1.08	3.4	64T02L	Δ
LS64T.1220.02	2	12	2.15	0.28	1.24	3.4	64T02L	Δ

Dimensions in mm

P	●
M	●
K	○
N	-
S	-
H	-

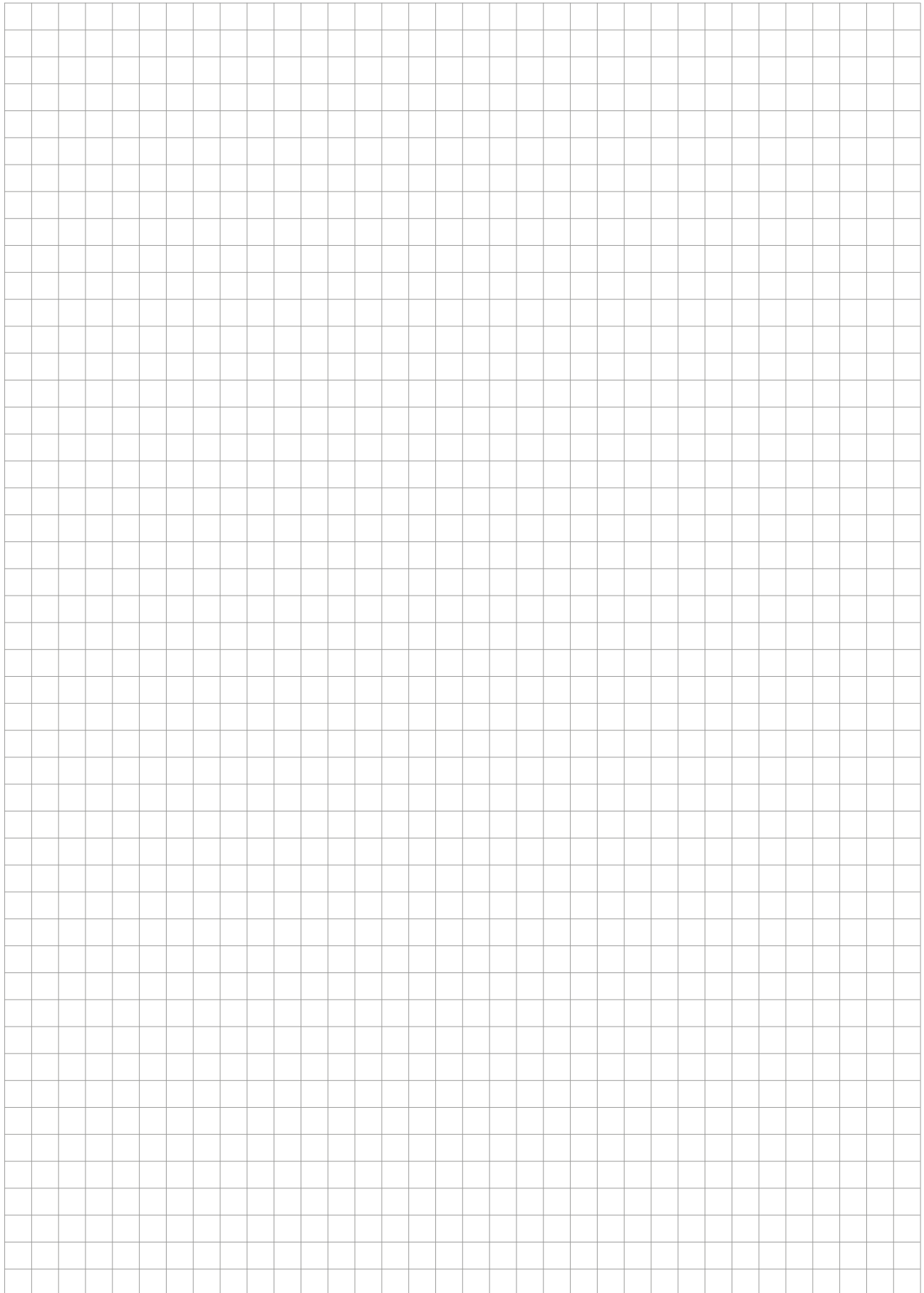


Coating grades

▲ In stock Δ 2 weeks

Part number	TPI	E	r	h ₁	s	HIS	EG55	
RS64T.5519.02	19	2	0.17	0.87	3.4	64T02R	Δ	
RS64T.5528.02	28	2.3	0.11	0.6	3.4	64T02R	Δ	
LS64T.5519.02	19	2	0.17	0.87	3.4	64T02L	Δ	
LS64T.5528.02	28	2.3	0.11	0.6	3.4	64T02L	Δ	
NS64T.5511.02	11	1.7	0.3	1.5	3.4	64T02N	Δ	
NS64T.5514.02	14	1.7	0.23	1.18	3.4	64T02N	Δ	
Dimensions in mm							P	●
							M	●
							K	○
							N	-
							S	-
							H	-

S





T

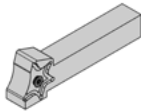
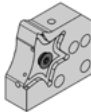
SYSTEM 66T

EXTERNAL GROOVING, SIDE TURNING, PARTING OFF

.098-.118", 2.5-3mm width

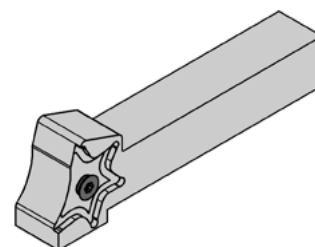
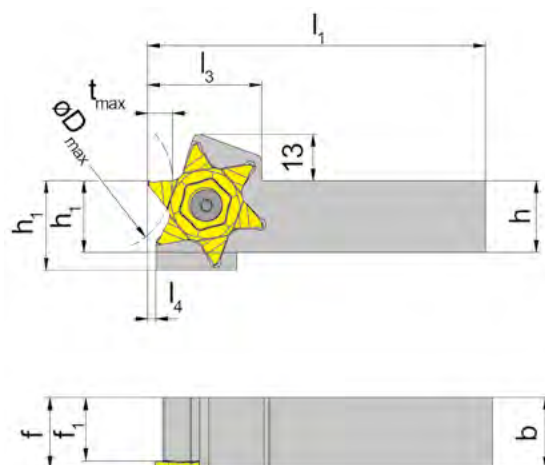
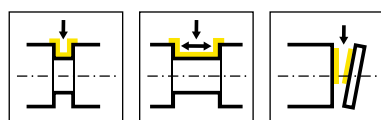
System		100	117	223	209	216	217	224	229, 259	231	234
Internal Grooving											
Bore-Ø	in			≥ .708	≥ .629	≥ .787	≥ .787	≥ 1.102	≥ 1.496	≥ 2.952	
	mm			≥ 18	≥ 16	≥ 20	≥ 20	≥ 28	≥ 38	≥ 75	
Width of groove	in			.047-.118	.078-.118	.078-.236	.019-.208	.078-.236	.098-.393	.098-.393	
	mm			1.2 - 3	2 - 3	2 - 6	0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	
Grooving				•	•	•	•	•	•	•	
Turning				•	•	•		•	•		
Profiling				•	•	•		•	•		
Face Grooving											
Threading								•	•	•	
External Grooving											
Depth of groove	in	≤ 2.165	≤ .393	≤ .433			≤ .185	≤ 1.279	≤ .984	≤ .433	1.299
	mm	≤ 55	≤ 10	≤ 11			≤ 4.7	≤ 32.5	≤ 25	≤ 11	≤ 33
Width of groove	in	.078-.629	.393-1.771	.047-.118			.019-.208	.078-.236	.098-.393	.098-.393	.078-.118
	mm	2 - 16	10 - 45	1.2 - 3			0.5 - 5.3	2 - 6	2.5 - 10	2.5 - 10	2 - 3
Grooving		•		•			•	•	•	•	•
Turning		•		•				•	•		
Profiling			•				•	•	•		
Parting Off		•		•				•	•		•
Face Grooving								•	•	•	
Threading								•	•	•	
Chapter		A	B	C	D	E	F	G	H	I	J

System		262	264	274	32T	34T	312	315	316	64T	66T
Internal Grooving											
Bore-Ø	in						1.811	1.692			
	mm						≥ 46	≥ 43			
Width of groove	in						.019-.248	.019-.314			
	mm						0.5 - 6.3	0.5 - 8			
Grooving							•	•			
Turning								•			
Profiling								•			
Face Grooving											
Threading								•			
External Grooving											
Depth of groove	in	≤ .295	≤ .629	≤ .236	≤ .137	≤ .255	≤ .314	≤ .236	≤ .314	≤ .216	≤ .374
	mm	≤ 7.5	≤ 16	≤ 6	≤ 3.5	≤ 6.5	≤ 8	≤ 6	≤ 8	≤ 5.5	≤ 9.5
Width of groove	in	.001-.236	.059-.118	.019-.275	.019-.098	.040-.196	.019-.248	.019-.314	.059-.118	.019-.124	.078-.118
	mm	0.025 - 6	1.5 - 3	0.5 - 7	0.5 - 2.5	1.03 - 5	0.5 - 6.3	0.5 - 8	1.5 - 3	0.5 - 3.15	2 - 3
Grooving		•	•	•	•	•	•	•	•	•	•
Turning		•	•	•	•	•	•	•	•	•	•
Profiling								•			•
Parting Off		•	•	•	•	•	•	•	•	•	•
Face Grooving							•	•			
Threading			•	•	•			•		•	
Chapter		K	L	M	N	O	P	Q	R	S	T

HOLDERS	Square Shank	
	 Page 618-619 Groove, Turn, Part Off Metric Shank	 Page 620 Groove, Turn, Part Off Cassette

INSERTS	Grooving, Side Turning, Parting Off			
	 Page 621-622 .00 Geometry Grooving and Part Off	 Page 623 .1A Chipbreaker Grooving	 Page 624-625 .DL Chipbreaker Groove, Turn, Part Off	 Page 626 Full Radius Grooving

Cutting Data and Technical Instructions - Chapter V / Page 706	
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R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	l_4	HWS
RH66T.2020.08.10	20	20	125	25	32	20	17.8	f_1+w+a_1	2.3	66T01N
RH66T.2020.08.20	20	20	125	25	32	20	17.3	f_1+w+a_1	2.3	66T02N
RH66T.2525.08.10	25	25	125	25	32	25	22.8	f_1+w+a_1	2.3	66T01N
RH66T.2525.08.20	25	25	125	25	32	25	22.3	f_1+w+a_1	2.3	66T02N
LH66T.2020.08.10	20	20	125	25	32	20	17.8	f_1+w+a_1	2.3	66T01N
LH66T.2020.08.20	20	20	125	25	32	20	17.3	f_1+w+a_1	2.3	66T02N
LH66T.2525.08.10	25	25	125	25	32	25	22.8	f_1+w+a_1	2.3	66T01N
LH66T.2525.08.20	25	25	125	25	32	25	22.3	f_1+w+a_1	2.3	66T02N

For the (w) dimension, see inserts

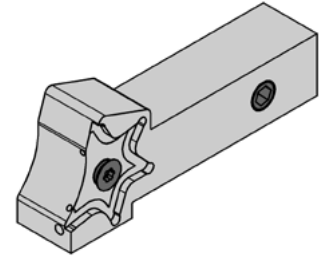
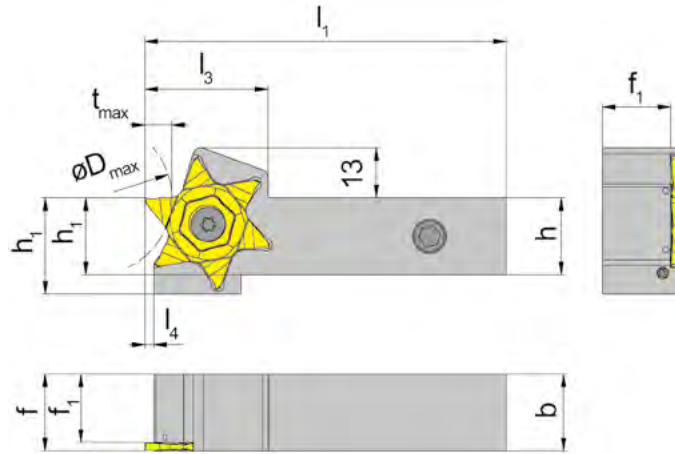
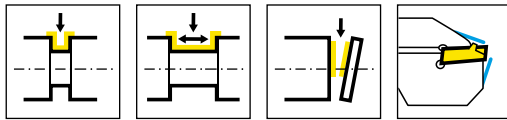
Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH66T...	030.6014.T20P	T20PQ	5 Nm

Toolholder

H66T



R = right hand version shown

L = left hand version

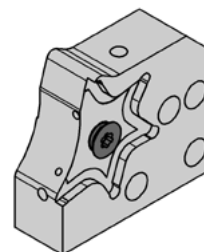
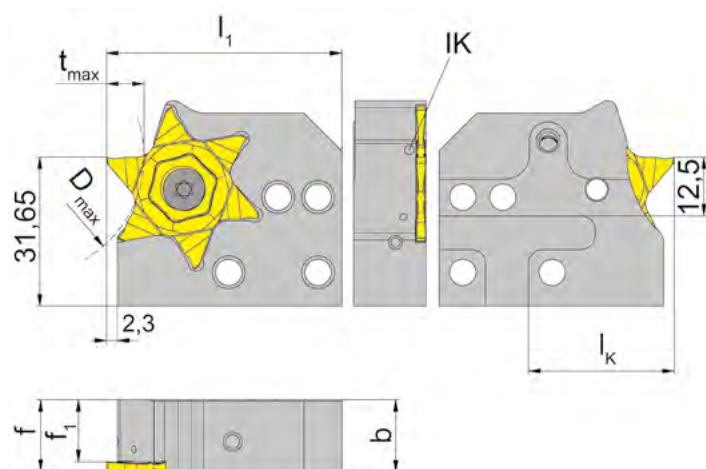
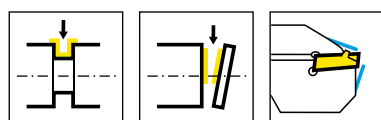
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	l_4	HWS
RH66T.2020.08.0A.10.IK	20	20	94	25	32	20	17.8	f_1+w+a_1	2.3	66T01N
RH66T.2020.08.0A.20.IK	20	20	94	25	32	20	17.3	f_1+w+a_1	2.3	66T02N
RH66T.2525.08.0A.10.IK	25	25	109	25	32	25	22.8	f_1+w+a_1	2.3	66T01N
RH66T.2525.08.0A.20.IK	25	25	109	25	32	25	22.3	f_1+w+a_1	2.3	66T02N
LH66T.2020.08.0A.10.IK	20	20	94	25	32	20	17.8	f_1+w+a_1	2.3	66T01N
LH66T.2020.08.0A.20.IK	20	20	94	25	32	20	17.3	f_1+w+a_1	2.3	66T02N
LH66T.2525.08.0A.10.IK	25	25	109	25	32	25	22.8	f_1+w+a_1	2.3	66T01N
LH66T.2525.08.0A.20.IK	25	25	109	25	32	25	22.3	f_1+w+a_1	2.3	66T02N

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LH66T...	004.00.16	030.6014.T20P	T20PQ	5 Nm



R = right hand version shown

L = left hand version

Part number	t _{max}	b	f	f ₁	l ₁	l _K	HWS	HMS
RNK66T.0220.08.10.IK	9.5	15.4	f ₁ +w+a ₁	13.2	50	31	66T01N	220001
RNK66T.0220.08.20.IK	9.5	15.4	f ₁ +w+a ₁	12.7	50	31	66T02N	220001
LNK66T.0220.08.10.IK	9.5	15.4	f ₁ +w+a ₁	13.2	50	31	66T01N	220002
LNK66T.0220.08.20.IK	9.5	15.4	f ₁ +w+a ₁	12.7	50	31	66T02N	220002

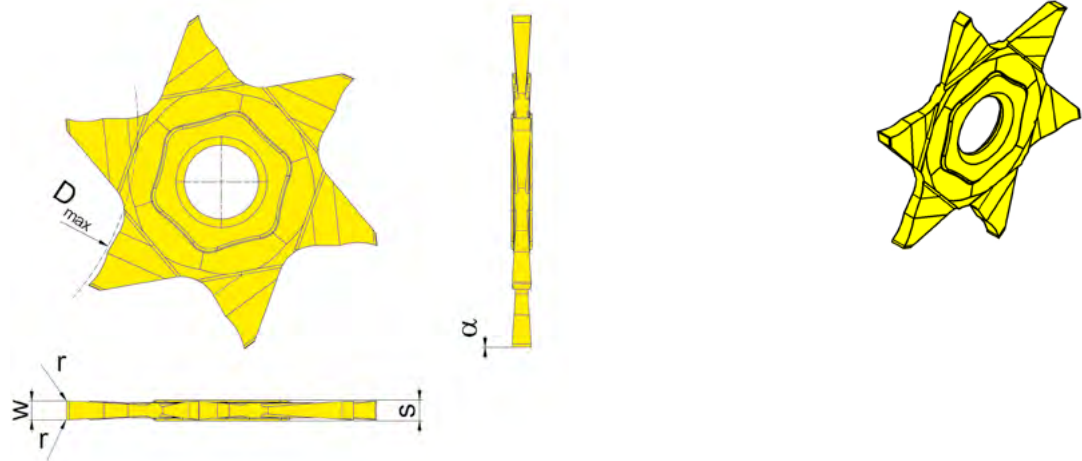
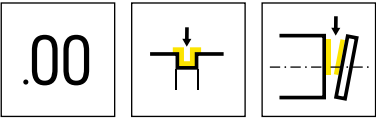
Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LNK66T...	030.6014.T20P	T20PQ	5 Nm

Indexable insert

S66T

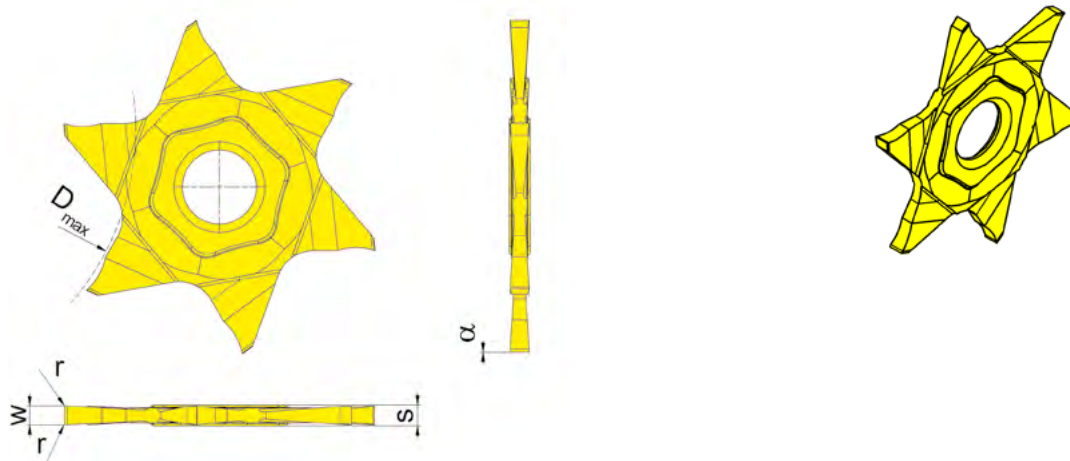
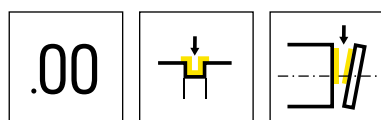


Coating grades

▲ In stock Δ 2 weeks

Part number	w	s	α	HIS		EG55	IG65
S66T.0200.00	2	2.2	0°	66T01N	▲	▲	▲
S66T.0200.00	2	2.2	0°	66T01N	▲	▲	▲
S66T.0250.00	2.5	2.7	0°	66T02N	▲	▲	▲
S66T.0250.00	2.5	2.7	0°	66T02N	▲	▲	▲
S66T.0300.00	3	3.2	0°	66T02N	▲	▲	▲
S66T.0300.00	3	3.2	0°	66T02N	▲	▲	▲
Dimensions in mm					P	●	●
					M	●	●
					K	○	●
					N	-	○
					S	-	○
					H	-	-





Coating grades

▲ In stock

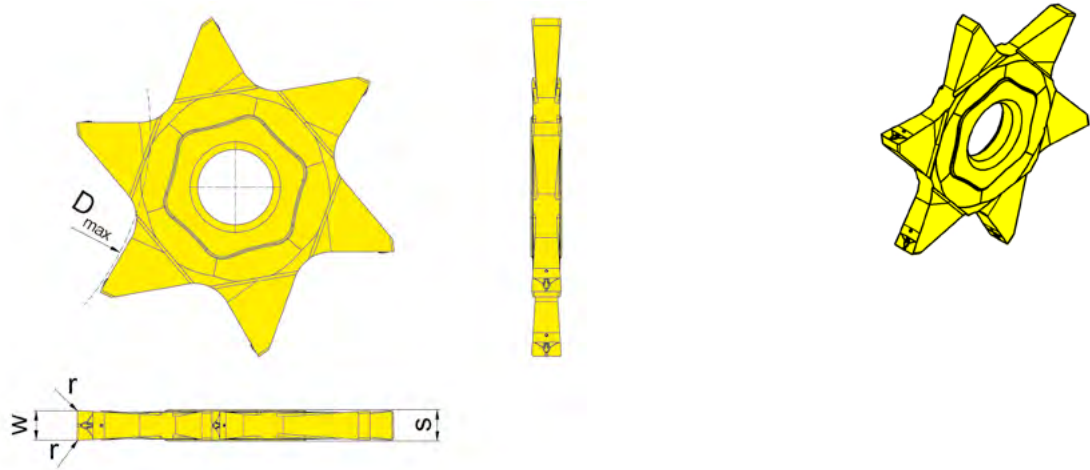
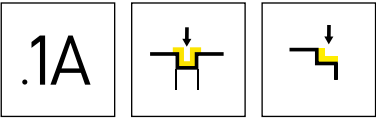
△ 2 weeks

Part number	w	r	s	α	HIS		EG55	IG65
S66T.0200.01	2	0.1	2.2	0°	66T01N		▲	▲
S66T.0200.01	2	0.1	2.2	0°	66T01N		▲	▲
S66T.0250.01	2.5	0.1	2.7	0°	66T02N		▲	▲
S66T.0250.01	2.5	0.1	2.7	0°	66T02N		▲	▲
S66T.0300.01	3	0.1	3.2	0°	66T02N		▲	▲
S66T.0300.01	3	0.1	3.2	0°	66T02N		▲	▲
						P	●	●
						M	●	●
						K	○	●
						N	-	○
						S	-	○
						H	-	-

Dimensions in mm

Indexable insert

S66T

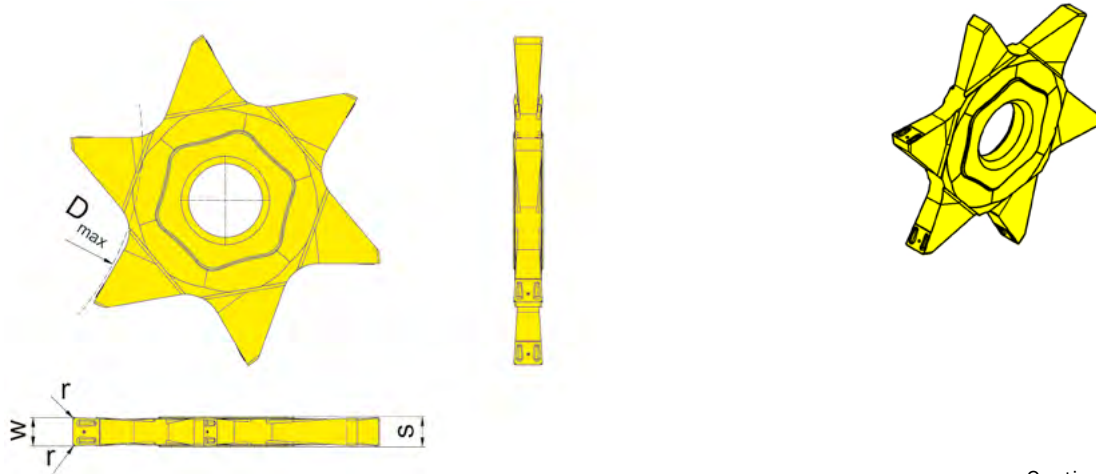
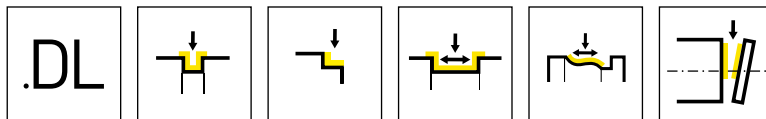


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	s	HIS		EG55	IG65
S66T.0200.1A2	2	0.2	2.2	66T01N	▲	▲	▲
S66T.0200.1A2	2	0.2	2.2	66T01N	▲	▲	▲
S66T.0250.1A2	2.5	0.2	2.7	66T02N	▲	▲	▲
S66T.0250.1A2	2.5	0.2	2.7	66T02N	▲	▲	▲
S66T.0300.1A2	3	0.2	3.2	66T02N	▲	▲	▲
S66T.0300.1A2	3	0.2	3.2	66T02N	▲	▲	▲
Dimensions in mm					P	●	●
					M	●	●
					K	○	●
					N	-	○
					S	-	○
					H	-	-





Coating grades

▲ In stock

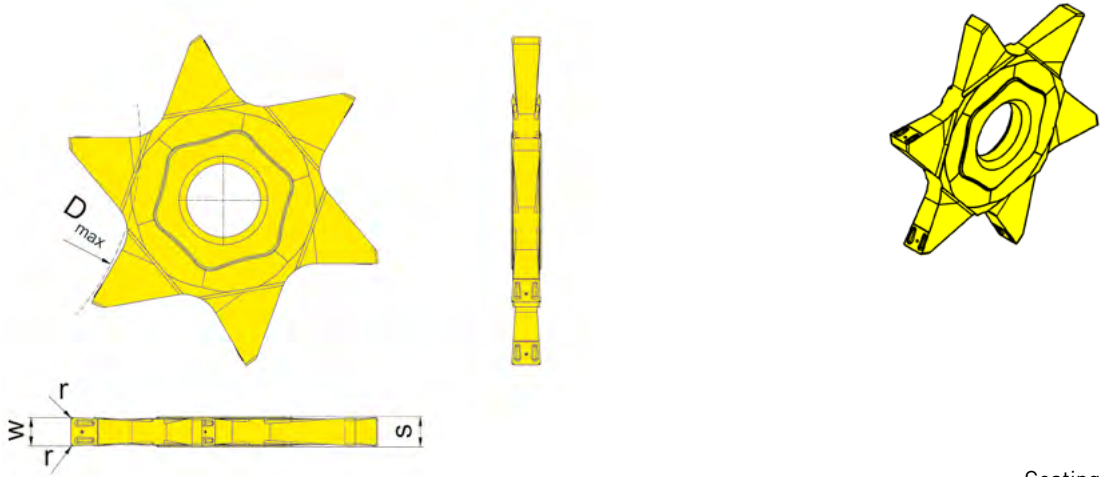
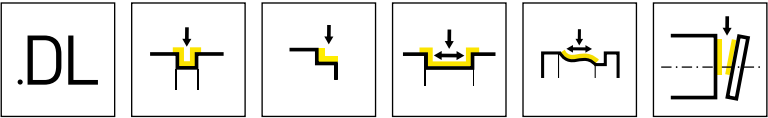
Δ 2 weeks

Part number	w	r	s	HIS		
					EG55	IG65
S66T.0200.DL2	2	0.2	2.2	66T01N	▲	▲
S66T.0200.DL2	2	0.2	2.2	66T01N	▲	▲
S66T.0250.DL2	2.5	0.2	2.7	66T02N	▲	▲
S66T.0250.DL2	2.5	0.2	2.7	66T02N	▲	▲
S66T.0300.DL2	3	0.2	3.2	66T02N	▲	▲
S66T.0300.DL2	3	0.2	3.2	66T02N	▲	▲
					P	•
					M	•
					K	•
					N	-
					S	-
					H	-

Dimensions in mm

Indexable insert

S66T

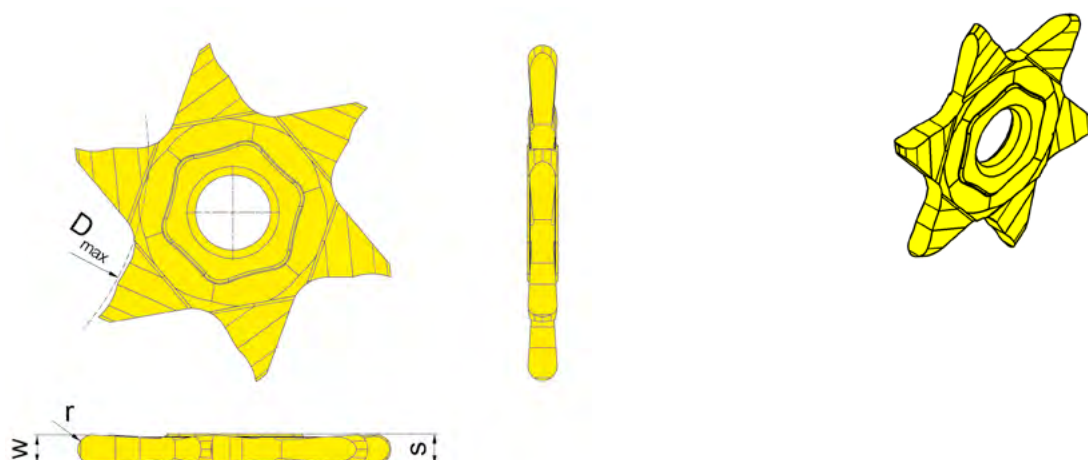
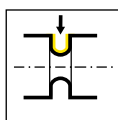


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	s	HIS		EG55	IG65
S66T.0200.DL4	2	0.4	2.2	66T01N	▲	▲	▲
S66T.0200.DL4	2	0.4	2.2	66T01N	▲	▲	▲
S66T.0250.DL4	2.5	0.4	2.7	66T02N	▲	▲	▲
S66T.0250.DL4	2.5	0.4	2.7	66T02N	▲	▲	▲
S66T.0300.DL4	3	0.4	3.2	66T02N	▲	▲	▲
S66T.0300.DL4	3	0.4	3.2	66T02N	▲	▲	▲
Dimensions in mm					P	●	●
					M	●	●
					K	○	●
					N	-	○
					S	-	○
					H	-	-





Coating grades

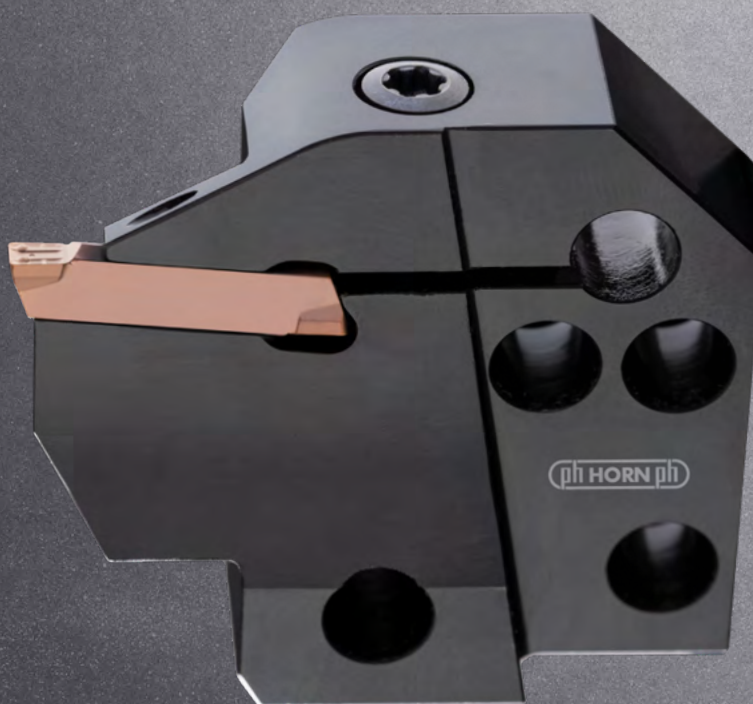
▲ In stock

Δ 2 weeks

Part number	w	r	a _i	s	HIS	EG55	IG65
S66T.0200.10	2	1	0.1	2.2	66T01N	▲	▲
S66T.0200.10	2	1	0.1	2.2	66T01N	▲	▲
S66T.0250.12	2.5	1.25	0.1	2.7	66T02N	▲	▲
S66T.0250.12	2.5	1.25	0.1	2.7	66T02N	▲	▲
S66T.0300.15	3	1.5	0.1	3.2	66T02N	▲	▲
S66T.0300.15	3	1.5	0.1	3.2	66T02N	▲	▲
Dimensions in mm						P	•
						M	•
						K	•
						N	-
						S	-
						H	-

T

This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



FACE GROOVING

System	Page
Supermini / Mini	631
15A / 25A	633
224	645
229	665
231	687
312	693
315	699

U



U

SUPERMINI / MINI

Due to the extensive range of Supermini and Mini face grooving tools,
please refer to our dedicated Supermini/Mini catalog for the complete tool selection.

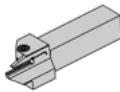
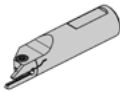
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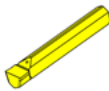
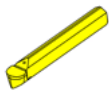
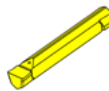
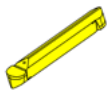


SYSTEM 15 / 25A

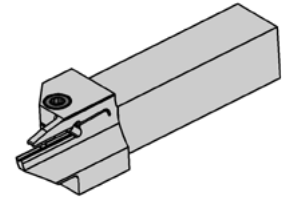
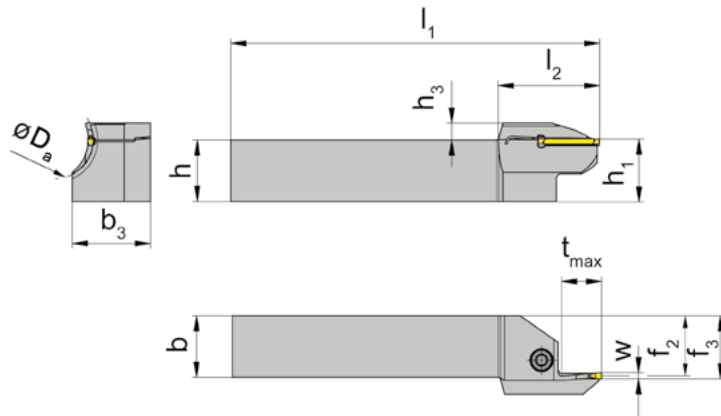
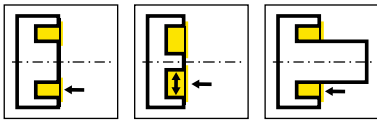
Internal Face Grooving: Bore- $\varnothing$.590" - 1.968" / ≥ 15 -50mm - Width of Groove .078" - .157" / 2-4mm

External Face Grooving: Bore- $\varnothing \leq .984$ " / ≥ 25 mm - Width of Groove .078" - .157" / 2-4mm

HOLDERS	Square Shank		Round Shank	
				
	Page 635-636 Face Grooving Metric Shank	Page 637 Face Grooving Modular Cassette	Page 638 Face Grooving Metric Shank	

INSERTS	One Edge			Two Edge	
					
	Page 639 .10 Geometry Grooving	Page 640 .L Chipbreaker Grooving and Turning	Page 641 Full Radius Grooving	Page 642 .10 Geometry Grooving	Page 643 Full Radius Grooving

Cutting Data and Technical Instructions - Chapter V / Page 706				
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L = left hand version shown

R = right hand version

Part number	h	b	l ₁	l ₂	h ₁	b ₃	f ₂	f ₃	t _{max}	h ₃	D _{a min}	D _{a max}	HWS
RAH25A.12.1520.02	12	12	120	32	12.3	15.5	11.5	12.5	12	5	15	20	25A02
RAH25A.12.2025.02	12	12	120	32	12.3	16.5	11.5	12.5	12	5	20	25	25A02
RAH25A.12.2530.02	12	12	120	33	12.3	17.5	11.5	12.5	13	5.5	25	30	25A02
RAH25A.16.1520.02	16	16	120	32	16.3	19.5	15.5	16.5	12	5	15	20	25A02
RAH25A.16.2530.02	16	16	120	33	16.3	21.5	15.5	16.5	13	5.5	25	30	25A02
RAH25A.20.1520.02	20	20	120	32	20.3	23.5	19.5	20.5	12	5	15	20	25A02
RAH25A.20.2025.02	20	20	120	32	20.3	24.5	19.5	20.5	12	5	20	25	25A02
RAH25A.20.2530.02	20	20	120	33	20.3	25.5	19.5	20.5	13	5.5	25	30	25A02
LAH25A.12.1520.02	12	12	120	32	12.3	15.5	11.5	12.5	12	5	15	20	25A02
LAH25A.16.1520.02	16	16	120	32	16.3	19.5	15.5	16.5	12	5	15	20	25A02
LAH25A.16.2530.02	16	16	120	33	16.3	21.5	15.5	16.5	13	5.5	25	30	25A02
LAH25A.20.1520.02	20	20	120	32	20.3	23.5	19.5	20.5	12	5	15	20	25A02
LAH25A.20.2025.02	20	20	120	32	20.3	24.5	19.5	20.5	12	5	20	25	25A02
LAH25A.20.2530.02	20	20	120	33	20.3	25.5	19.5	20.5	13	5.5	25	30	25A02

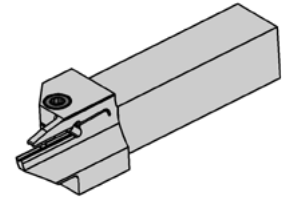
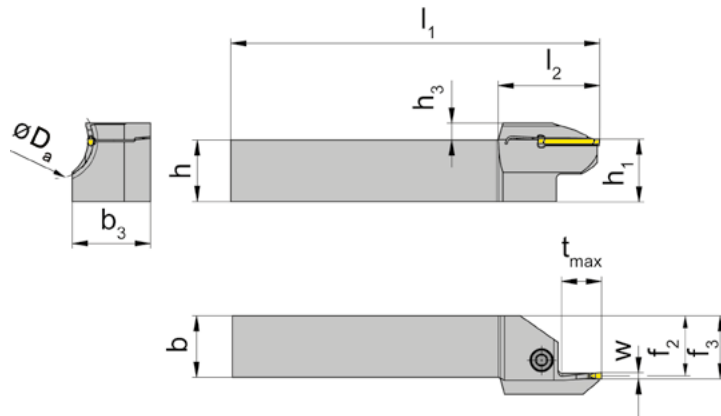
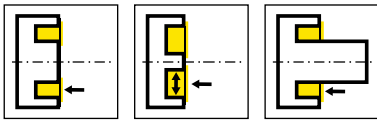
The cutting edge is 0.3 mm above the center height

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LAH25A.12...	5.14T20P	T20PQ	2.5 Nm
R/LAH25A.16/.20...	5.13T20P	T20PQ	3.5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	l ₁	l ₂	h ₁	b ₃	f ₂	f ₃	t _{max}	h ₃	D _{a min}	D _{a max}	HWS
RAH25A.12.1520.03	12	12	120	32	12.3	17	11	12.5	13	5.5	15	20	25A03
RAH25A.16.1520.03	16	16	120	32	16.3	21	15	16.5	13	5.5	15	20	25A03
RAH25A.20.1520.03	20	20	120	33	20.3	25	19	20.5	13	5.5	15	20	25A03
RAH25A.16.2025.03	16	16	120	34	16.3	22.5	15	16.5	14	5	20	25	25A03
RAH25A.20.2025.03	20	20	120	34	20.3	26.5	19	20.5	14	5.5	20	25	25A03
RAH25A.16.2530.03	16	16	120	35	16.3	23.5	15	16.5	15	6	25	30	25A03
RAH25A.20.2530.03	20	20	120	35	20.3	27.5	19	20.5	15	6	25	30	25A03
LAH25A.12.1520.03	12	12	120	33	12.3	17	11	12.5	13	5.5	15	20	25A03
LAH25A.16.1520.03	16	16	120	33	16.3	21	15	16.5	13	5.5	15	20	25A03
LAH25A.20.1520.03	20	20	120	33	20.3	25	19	20.5	13	5.5	15	20	25A03
LAH25A.12.2025.03	12	12	120	34	12.3	18.5	11	12.5	14	5.5	20	25	25A03
LAH25A.16.2025.03	16	16	120	34	16.3	22.5	15	16.5	14	5.5	20	25	25A03
LAH25A.20.2025.03	20	20	120	34	20.3	26.5	19	20.5	14	5.5	20	25	25A03
LAH25A.16.2530.03	16	16	120	35	16.3	23.5	15	16.5	15	6	25	30	25A03
LAH25A.20.2530.03	20	20	120	35	20.3	27.5	19	20.5	15	6	25	30	25A03

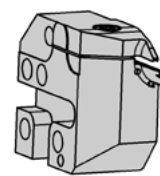
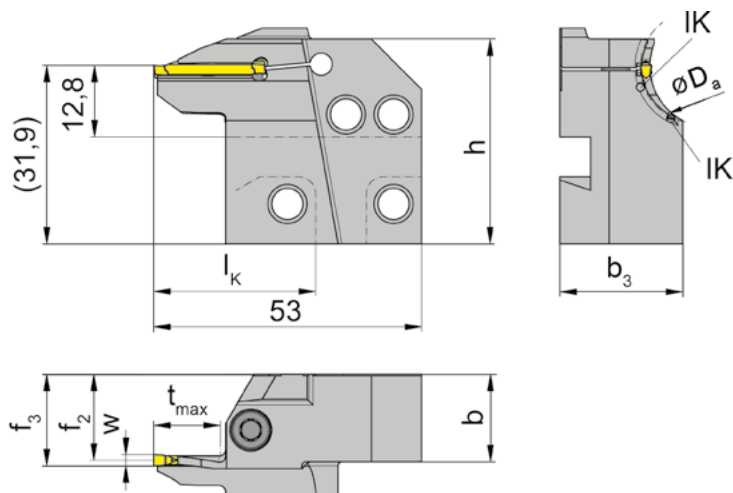
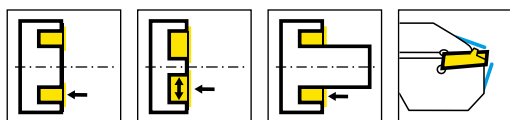
The cutting edge is 0.3 mm above the center height

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LAH25A.12...	5.14T20P	T20PQ	3 Nm
R/LAH25A.16/.20...	5.13T20P	T20PQ	3.5 Nm



R = right hand version shown

L = left hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	b ₃	f ₂	f ₃	w	h	l _k	HWS	HMS
RAK25A.1520.02.IK	15	20	12	15.7	21	15.4	f ₂ +w/2	2	38.6	34	25A02	220001
RAK25A.2025.02.IK	20	25	12	15.7	22	15.4	f ₂ +w/2	2	38.6	34	25A02	220001
RAK25A.2530.02.IK	25	30	13	15.7	23	15.4	f ₂ +w/2	2	38.6	34	25A02	220001
RAK25A.2025.03.IK	20	25	14	15.7	24	14.9	f ₂ +w/2	3	38.6	34	25A03	220001
RAK25A.2530.03.IK	25	30	15	15.7	25	14.9	f ₂ +w/2	3	38.6	34	25A03	220001
RAK25A.3040.03.IK	30	40	16	15.7	23	14.9	f ₂ +w/2	3	38.6	34	25A03	220001
RAK25A.4050.03.IK	40	50	18	15.7	24	14.9	f ₂ +w/2	3	38.6	34	25A03	220001
RAK25A.5065.03.IK	50	65	18	15.7	21.5	15.4	f ₂ +w/2	3	39	34	25A03	220001
RAK25A.6580.03.IK	65	80	20	15.7	24	17.1	f ₂ +w/2	3	39	34	25A03	220001
RAK25A.2025.04.IK	20	25	16	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220001
RAK25A.2530.04.IK	25	30	17	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220001
RAK25A.3040.04.IK	30	40	18	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220001
RAK25A.4050.04.IK	40	50	20	15.7	24	15.5	f ₂ +w/2	4	39.2	34	25A04	220001
RAK25A.5065.04.IK	50	65	20	15.7	24	17.1	f ₂ +w/2	4	39	34	25A04	220001
LAK25A.1520.02.IK	15	20	12	15.7	21	15.4	f ₂ +w/2	2	38.6	34	25A02	220002
LAK25A.2025.02.IK	20	25	12	15.7	22	15.4	f ₂ +w/2	2	38.6	34	25A02	220002
LAK25A.2530.02.IK	25	30	13	15.7	23	15.4	f ₂ +w/2	2	38.6	34	25A02	220002
LAK25A.2025.03.IK	20	25	14	15.7	24	14.9	f ₂ +w/2	3	38.6	34	25A03	220002
LAK25A.2530.03.IK	25	30	15	15.7	25	14.9	f ₂ +w/2	3	38.6	34	25A03	220002
LAK25A.3040.03.IK	30	40	16	15.7	23	14.9	f ₂ +w/2	3	38.6	34	25A03	220002
LAK25A.4050.03.IK	40	50	18	15.7	24	14.9	f ₂ +w/2	3	38.6	34	25A03	220002
LAK25A.5065.03.IK	50	65	18	15.7	22	15.4	f ₂ +w/2	3	39	34	25A03	220002
LAK25A.6580.03.IK	65	80	18	15.7	21.5	15.4	f ₂ +w/2	3	39	34	25A03	220002
LAK25A.2025.04.IK	20	25	16	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220002
LAK25A.2530.04.IK	25	30	17	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220002
LAK25A.3040.04.IK	30	40	18	15.7	24	15.1	f ₂ +w/2	4	38.6	34	25A04	220002
LAK25A.4050.04.IK	40	50	20	15.7	24	15.1	f ₂ +w/2	4	39.2	34	25A04	220002
LAK25A.5065.04.IK	50	65	18	15.7	22	15.4	f ₂ +w/2	4	39	34	25A04	220002
LAK25A.6580.04.IK	65	80	20	15.7	23.5	17.1	f ₂ +w/2	4	39	34	25A04	220002

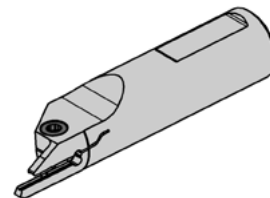
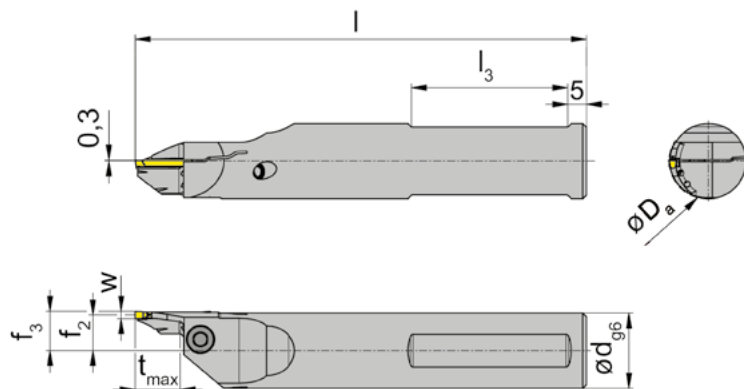
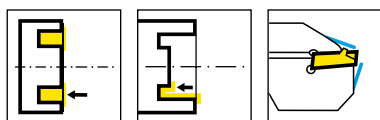
The cutting edge is 0.3 mm above the center height

Dimensions in mm

For the (w) dimension, see inserts

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LAK25A...02/.03/.04	5.13T20P	T20PQ	2.5/3/3.5 Nm



L = left hand version shown

R = right hand version

Part number	d	l	l ₃	f ₃	f ₂	t _{max}	D _{a min}	D _{a max}	HWS
RIB25A.20.2025.02.1K	20	120	55	f ₂ +w/2	9.5	12	20	25	25A02
RIB25A.20.2530.02.1K	20	120	55	f ₂ +w/2	9.5	13	25	30	25A02
RIB25A.20.2025.03.1K	20	120	55	f ₂ +w/2	9	14	20	25	25A03
RIB25A.20.2530.03.1K	20	120	55	f ₂ +w/2	9	15	25	30	25A03
RIB25A.20.3040.03.1K	20	120	55	f ₂ +w/2	9	16	30	40	25A03
RIB25A.20.4050.03.1K	20	120	55	f ₂ +w/2	9	18	40	50	25A03
RIB25A.20.6580.03.1K	20	120	55	f ₂ +w/2	9	18	65	80	25A03
RIB25A.20.2025.04.1K	20	120	55	f ₂ +w/2	8.5	16	20	25	25A04
RIB25A.20.2530.04.1K	20	120	55	f ₂ +w/2	8.5	17	25	30	25A04
RIB25A.20.3040.04.1K	20	120	55	f ₂ +w/2	8.5	18	30	40	25A04
RIB25A.20.4050.04.1K	20	120	55	f ₂ +w/2	8.5	20	40	50	25A04
RIB25A.20.5065.04.1K	20	120	55	f ₂ +w/2	8.5	20	50	65	25A04
RIB25A.20.6580.04.1K	20	120	55	f ₂ +w/2	8.5	20	65	80	25A04
LIB25A.20.2025.02.1K	20	120	55	f ₂ +w/2	9.5	12	20	25	25A02
LIB25A.20.2530.02.1K	20	120	55	f ₂ +w/2	9.5	13	25	30	25A02
LIB25A.20.2025.03.1K	20	120	55	f ₂ +w/2	9	14	20	25	25A03
LIB25A.20.2530.03.1K	20	120	55	f ₂ +w/2	9	15	25	30	25A03
LIB25A.20.3040.03.1K	20	120	55	f ₂ +w/2	9	16	30	40	25A03
LIB25A.20.4050.03.1K	20	120	55	f ₂ +w/2	9	18	40	50	25A03
LIB25A.20.5065.03.1K	20	120	55	f ₂ +w/2	9	18	50	65	25A03
LIB25A.20.2025.04.1K	20	120	55	f ₂ +w/2	8.5	16	20	25	25A04
LIB25A.20.2530.04.1K	20	120	55	f ₂ +w/2	8.5	17	25	30	25A04
LIB25A.20.3040.04.1K	20	120	55	f ₂ +w/2	8.5	18	30	40	25A04
LIB25A.20.4050.04.1K	20	120	55	f ₂ +w/2	8.5	20	40	50	25A04
LIB25A.20.5065.04.1K	20	120	55	f ₂ +w/2	8.5	20	50	65	25A04

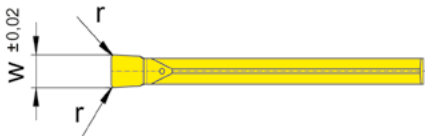
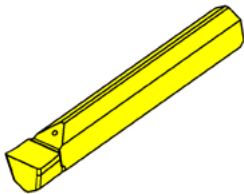
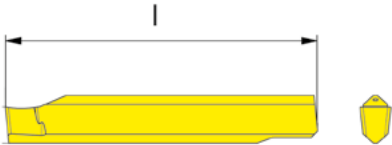
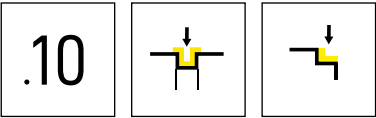
The cutting edge is 0.3 mm above the center height

Dimensions in mm

For the (w) dimension, see inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LAK25A...02/.03/.04	5.17T20P	T20PQ	2.5/3/3.5 Nm

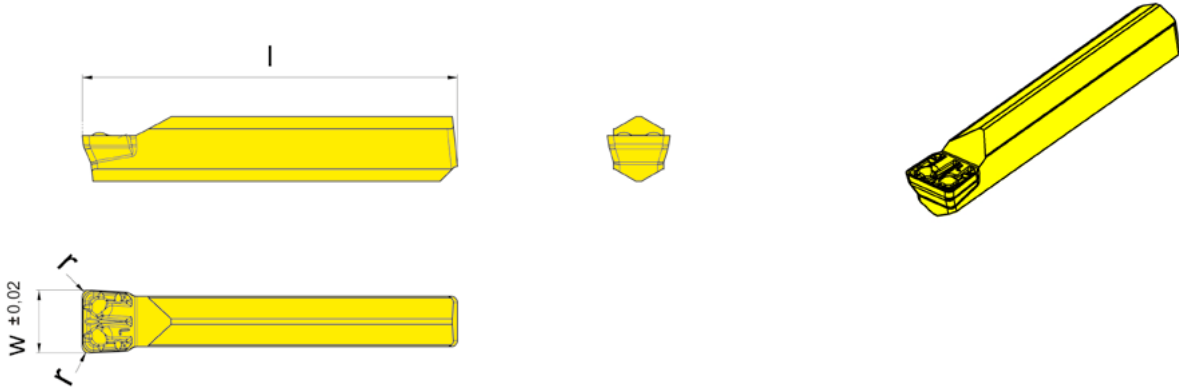
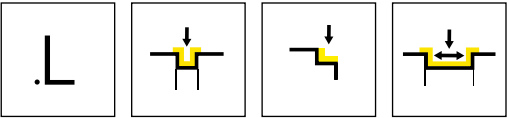


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS		EG55	IG35	TH35
S15A.0200.12	2	0.2	20	25A02		▲	▲	▲
S15A.0300.12	3	0.2	21	25A03		▲	▲	▲
S15A.0400.12	4	0.2	24	25A04		▲	▲	▲
Dimensions in mm					P	●	●	●
					M	●	●	●
					K	○	●	-
					N	-	○	-
					S	-	○	-
					H	-	-	-

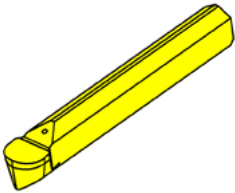
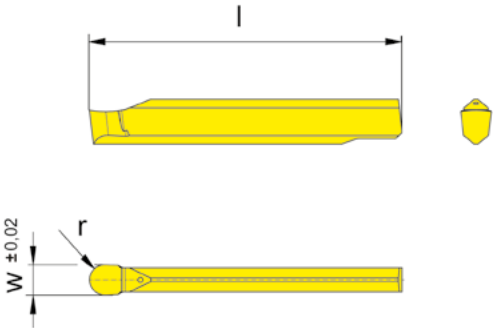
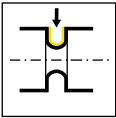




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS		AS45	EG55	IG65
S15A.0300.L2	3	0.2	24	25A03		▲	▲	▲
S15A.0400.L4	4	0.4	24	25A04		▲	▲	▲
Dimensions in mm					P	●	●	●
					M	○	●	●
					K	○	○	●
					N	-	-	-
					S	-	-	○
					H	-	-	-

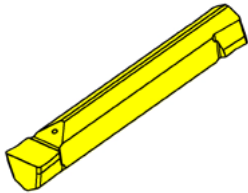
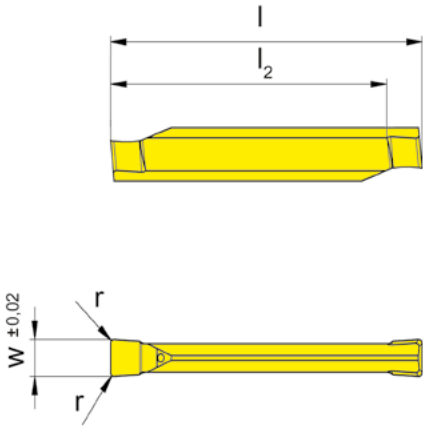
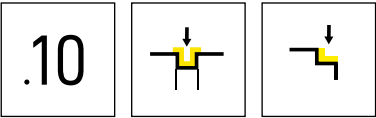


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	HIS		EG55	IG35	TH35
S15A.0200.10.10	2	1	20	25A02		▲	▲	▲
S15A.0300.10.15	3	1.5	21	25A03		▲	▲	▲
S15A.0400.10.20	4	2	24	25A04		▲	▲	▲
Dimensions in mm					P	●	●	●
					M	●	●	●
					K	○	●	-
					N	-	○	-
					S	-	○	-
					H	-	-	-

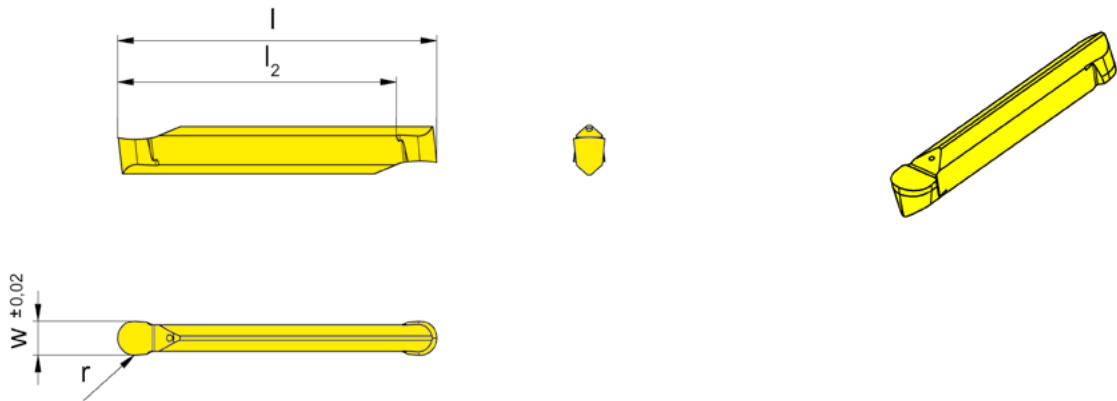
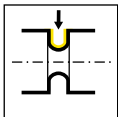




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	l ₂	HIS		EG55	IG35	TH35
S25A.0200.12	2	0.2	20	17	25A02		▲	▲	▲
S25A.0300.12	3	0.2	21	18	25A03		▲	▲	▲
S25A.0400.12	4	0.2	24	20.5	25A04		▲	▲	▲
Dimensions in mm						P	●	●	●
						M	●	●	●
						K	○	●	-
						N	-	○	-
						S	-	○	-
						H	-	-	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	l	l ₂	HIS		EG55	IG35	TH35
S25A.0200.10.10	2	1	20	17	25A02		▲	▲	▲
S25A.0300.10.15	3	1.5	21	18	25A03		▲	▲	▲
S25A.0400.10.20	4	2	24	20.5	25A04		▲	▲	▲
Dimensions in mm						P	●	●	●
						M	●	●	●
						K	○	●	-
						N	-	○	-
						S	-	○	-
						H	-	-	-



U



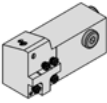
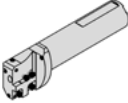
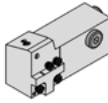
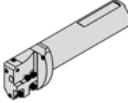
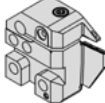
U

SYSTEM 224

Internal Face Grooving: Bore- $\varnothing$ 3.543" / ≥ 90 mm - Width of Groove .078"-.236" / 2-6mm

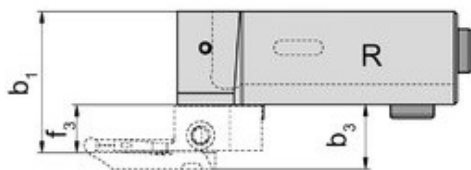
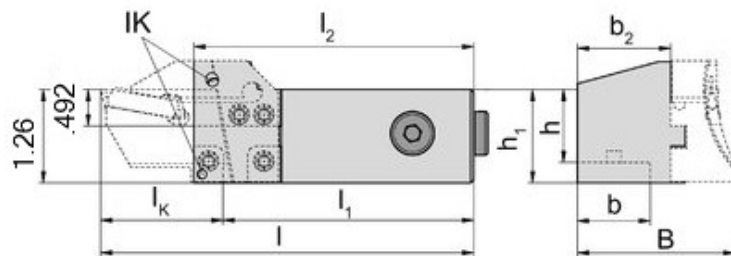
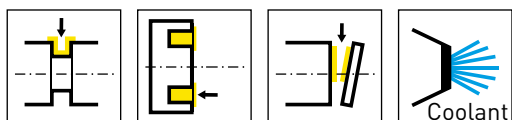
External Face Grooving: Bore- $\varnothing \leq 1.500$ " / ≥ 38 mm - Width of Groove .078"-.236" / 2-6mm

HOLDERS

Square Shank	Round Shank	Square Shank	Round Shank
			
Page 647-648 Groove, Face Groove, Part Off - Modular Inch	Page 649 Groove, Face Groove, Part Off - Modular Inch	Page 650-651 Groove, Face Groove, Part Off - Modular Metric	Page 652 Groove, Face Groove, Part Off - Modular Metric
Modular Cassette			
			
Page 653-654 Face Groove with Boss Left Hand	Page 655-656 Face Groove with Boss Right Hand	Page 657-658 Face Groove Internal Left Hand	Page 659-660 Face Groove Internal Right Hand

INSERTS

Grooving, Turning		
		
Page 661 .D Chipbreaker Grooving and Turning	Page 662 .5 Chipbreaker Grooving and Turning	Page 663 .L Chipbreaker Grooving and Turning



R = right hand version shown

L = left hand version

Part number	h	h ₁	l ₁	b	b ₁	b ₂	l ₂	l	B	HWS
RU220.0750.2.K1.IK	.750	1.260	l ₂ -10	.750	b ₂ +f ₃	1.026	4.500	l ₁ +l _K	b ₂ +b ₃	220001
RU220.1000.2.K1.IK	1.000	1.260	l ₂ -10	1.000	b ₂ +f ₃	1.250	6.000	l ₁ +l _K	b ₂ +b ₃	220001
RU220.1250.2.K1.IK	1.250	1.260	l ₂ -10	1.250	b ₂ +f ₃	1.250	6.000	l ₁ +l _K	b ₂ +b ₃	220001
LU220.0750.2.K1.IK	.750	1.260	l ₂ -10	.750	b ₂ +f ₃	1.026	4.500	l ₁ +l _K	b ₂ +b ₃	220002
LU220.1000.2.K1.IK	1.000	1.260	l ₂ -10	1.000	b ₂ +f ₃	1.250	6.000	l ₁ +l _K	b ₂ +b ₃	220002
LU220.1250.2.K1.IK	1.250	1.260	l ₂ -10	1.250	b ₂ +f ₃	1.250	6.000	l ₁ +l _K	b ₂ +b ₃	220002

IK, b₃ and f₃ see cassettes

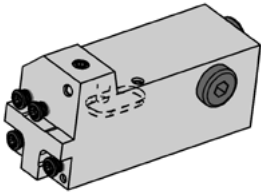
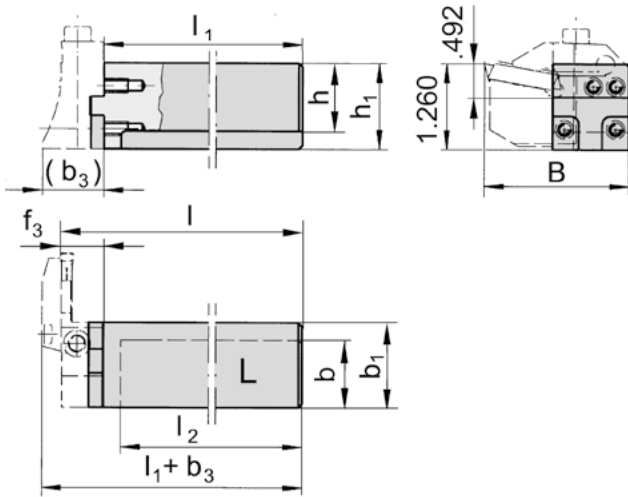
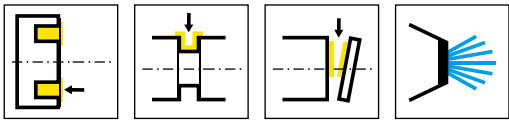
Dimensions in inch



U

Spare Parts

Basic toolholder	Clamping Screw	Threaded Pin	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LU220...	5.12T20P	030.0508.0866	T20PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

Part number	h	h ₁	b	HWS
RU220.0750.2.K2.IK	.750	1.250	.750	220001
RU220.1000.2.K2.IK	1.000	1.250	1.000	220001
RU220.1250.2.K2.IK	1.250	1.250	1.250	220002
LU220.0750.2.K2.IK	.750	1.250	.750	220001
LU220.1000.2.K2.IK	1.000	1.250	1.000	220001
LU220.1250.2.K2.IK	1.250	1.250	1.250	220001

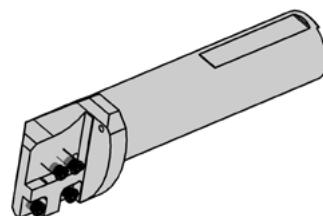
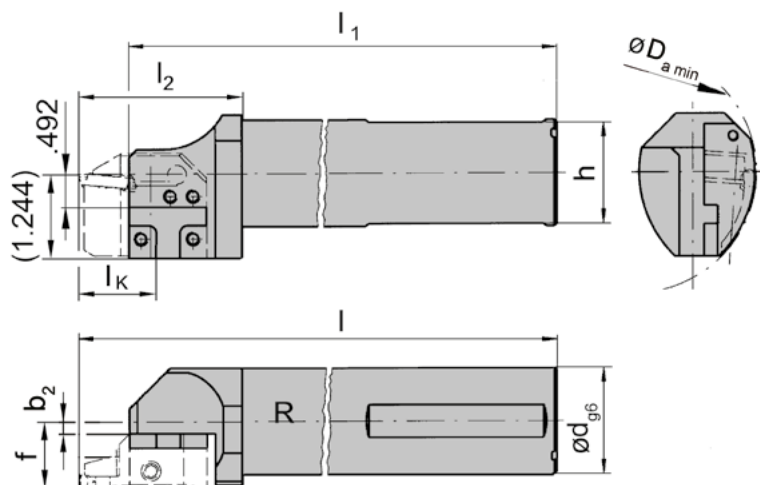
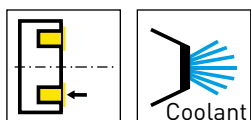
IK, b3 and f3 see cassettes

Dimensions in inch



Spare Parts

Basic toolholder	Clamping Screw	Threaded Pin	TORX PLUS® Wrench	Screw Plug	Torque Value
R/LU220...	5.12T20P	030.0508.0866	T20PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

Part number	f	d	l_1	h	l_2	b_2	D_{Bohr}	HWS
RBU224.1250.K1.IK	b_2+f_3	1.250	7.126	1.171	2.323	.016	3.543	220001
RBU224.1500.K1	b_2+f_3	1.500	9.094	1.421	2.323	.174	3.543	220001
RBU224.1500.K1.IK	b_2+f_3	1.500	9.094	1.421	2.323	.174	3.543	220001
LBU224.1250.K1	b_2+f_3	1.250	7.126	1.171	2.323	.016	3.543	220002
LBU224.1250.K1.IK	b_2+f_3	1.250	7.126	1.171	2.323	.016	3.543	220002
LBU224.1500.K1	b_2+f_3	1.500	9.094	1.421	2.323	.174	3.543	220002
LBU224.1500.K1.IK	b_2+f_3	1.500	9.094	1.421	2.323	.174	3.543	220002

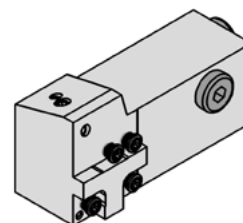
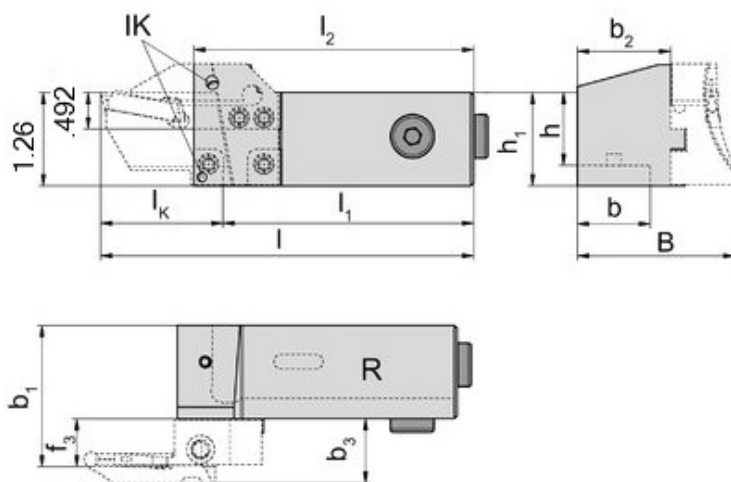
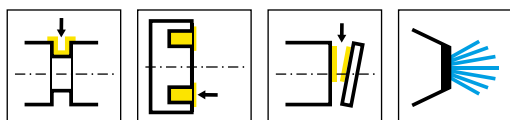
IK, b3 and f3 see cassettes

Dimensions in inch



Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Threaded Pin	Torque Value
LBU224.1250.K1	5.12T20P	T20PQ		6 Nm
R/LBU224....	5.12T20P	T20PQ	030.0508.0866	6 Nm
R/LBU224.1500.K1	5.12T20P	T20PQ		6 Nm



R = right hand version shown

L = left hand version

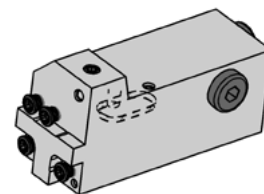
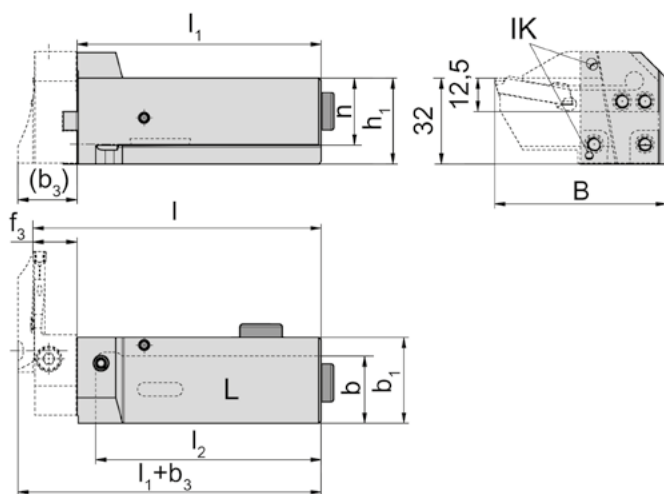
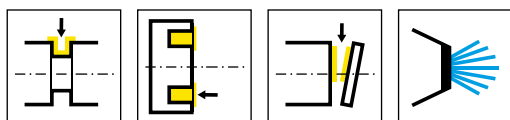
Part number	h	h ₁	l ₁	b	b ₁	b ₂	l ₂	l	B	HWS
R220.1616.2.K1.IK	16	32	l ₂ -10	16	b ₂ +f ₃	23	84	l ₁ +l _K	b ₂ +b ₃	220001
R220.2020.2.K1.IK	20	32	l ₂ -10	20	b ₂ +f ₃	27	84	l ₁ +l _K	b ₂ +b ₃	220001
R220.2525.2.K1.IK	25	32	l ₂ -10	25	b ₂ +f ₃	32	96	l ₁ +l _K	b ₂ +b ₃	220001
R220.3225.2.K1.IK	32	32	l ₂ -10	25	b ₂ +f ₃	25	105	l ₁ +l _K	b ₂ +b ₃	220001
R220.3232.2.K1.IK	32	32	l ₂ -10	32	b ₂ +f ₃	32	130	l ₁ +l _K	b ₂ +b ₃	220001
L220.1616.2.K1.IK	16	32	l ₂ -10	16	b ₂ +f ₃	23	84	l ₁ +l _K	b ₂ +b ₃	220002
L220.2020.2.K1.IK	20	32	l ₂ -10	20	b ₂ +f ₃	27	84	l ₁ +l _K	b ₂ +b ₃	220002
L220.2525.2.K1.IK	25	32	l ₂ -10	25	b ₂ +f ₃	32	96	l ₁ +l _K	b ₂ +b ₃	220002
L220.3225.2.K1.IK	32	32	l ₂ -10	25	b ₂ +f ₃	25	105	l ₁ +l _K	b ₂ +b ₃	220002
L220.3232.2.K1.IK	32	32	l ₂ -10	32	b ₂ +f ₃	32	130	l ₁ +l _K	b ₂ +b ₃	220002

IK, b₃ and f₃ see cassettes

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/L220...	5.12T20P	T20PQ	004.00.26	6 Nm



L = left hand version shown

R = right hand version

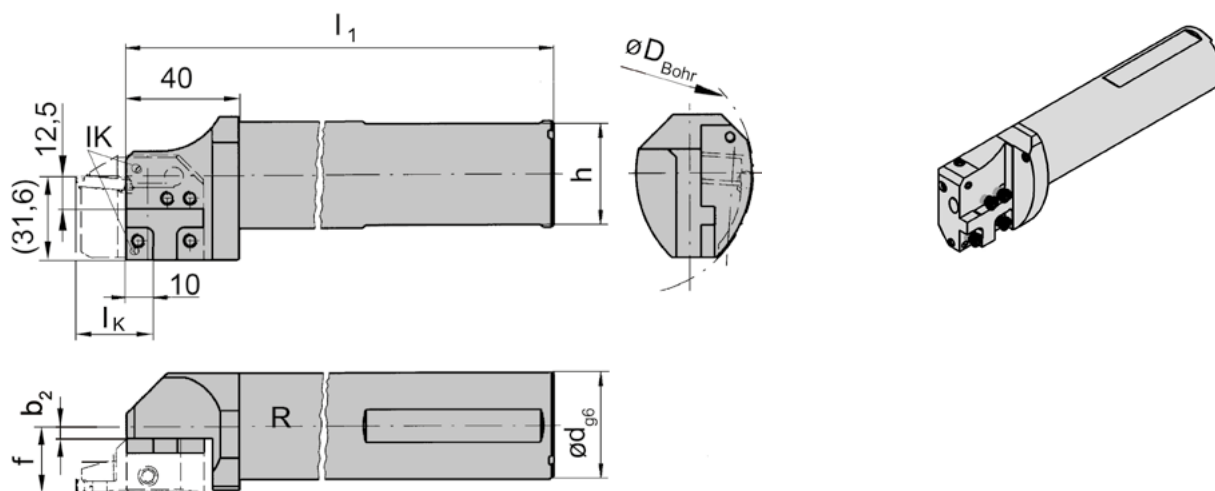
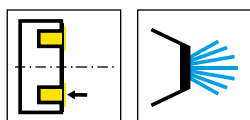
Part number	h	h ₁	b	l ₂	l	B	b ₁	l ₁	HWS
R220.1616.2.K2.IK	16	32	16	69	l ₁ +f ₃	l _k +19	32	79	220002
R220.2020.2.K2.IK	20	32	20	69	l ₁ +f ₃	l _k +19	32	79	220002
R220.2525.2.K2.IK	25	32	25	84	l ₁ +f ₃	l _k +22	32	91	220002
R220.3225.2.K2.IK	32	32	29	90	l ₁ +f ₃	l _k +19	37	100	220002
R220.3232.2.K2.IK	32	32	32	115	l ₁ +f ₃	l _k +22	37	125	220002
L220.1616.2.K2.IK	16	32	16	69	l ₁ +f ₃	l _k +19	32	79	220001
L220.2020.2.K2.IK	20	32	20	69	l ₁ +f ₃	l _k +19	32	79	220001
L220.2525.2.K2.IK	25	32	25	84	l ₁ +f ₃	l _k +22	32	91	220001
L220.3225.2.K2.IK	32	32	29	90	l ₁ +f ₃	l _k +19	37	100	220001
L220.3232.2.K2.IK	32	32	32	115	l ₁ +f ₃	l _k +22	37	125	220001

IK, b₃ and f₃ see cassettes

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Screw Plug	Torque Value
R/L220...	5.12T20P	T20PQ	004.00.26	6 Nm



R = right hand version shown

L = left hand version

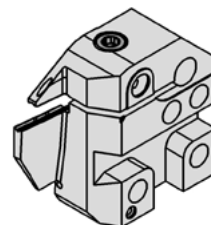
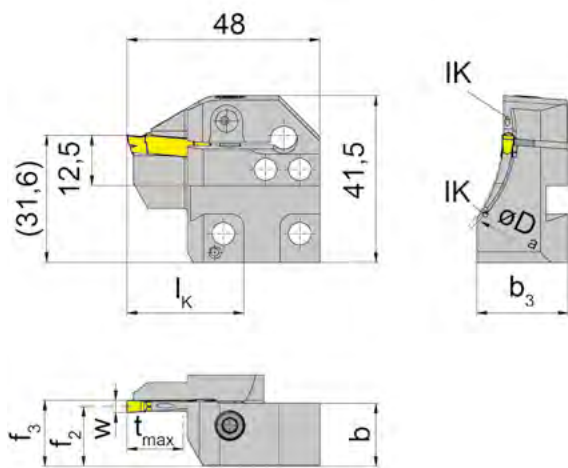
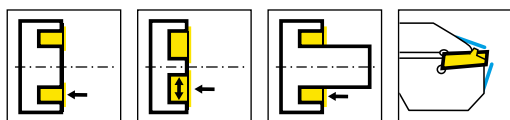
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RB224.0032.K1.IK	b_2+f_3	32	181	30	0.41	90	220001
RB224.0040.K1.IK	b_2+f_3	40	231	38	4.41	90	220001
RB224.0032.1.K1.IK	b_2+f_3	32	116	30	0.41	90	220001
RB224.0040.1.K1.IK	b_2+f_3	40	116	38	4.41	90	220001
LB224.0032.K1.IK	b_2+f_3	32	181	30	0.41	90	220002
LB224.0040.K1.IK	b_2+f_3	40	231	38	4.41	90	220002
LB224.0032.1.K1.IK	b_2+f_3	32	116	30	0.41	90	220002
LB224.0040.1.K1.IK	b_2+f_3	40	116	38	4.41	90	220002

Da min / f3 / IK see cassettes

Dimensions in mm

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/LB224...	5.12T20P	T20PQ	6 Nm



L = left hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	b ₃	f ₂	f ₃	w	l _K	HWS	HMS
LAK224.5060.03.IK	50	60	14	15.7	23.7	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.6075.03.IK	60	75	14	15.7	22.7	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.7590.03.IK	75	90	14	15.7	22.7	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.9011.03.IK	90	110	14	15.7	21	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.1113.03.IK	110	130	14	15.7	21	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.1318.03.IK	130	180	14	15.7	20	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.1830.03.IK	180	300	14	15.7	19	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.3000.03.IK	300	1000	14	15.7	16.9	14.9	f ₂ +w/2	3	29	224038	220002
LAK224.3847.04.IK	38	47	14	15.7	24.2	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.4760.04.IK	47	60	14	15.7	23.7	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.6075.04.IK	60	75	14	15.7	23.7	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.7590.04.IK	75	90	14	15.7	22.7	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.9013.04.IK	90	130	14	15.7	21	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.1318.04.IK	130	180	14	15.7	21	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.1830.04.IK	180	300	14	15.7	19	14.4	f ₂ +w/2	4	29	224048	220002
LAK224.3000.04.IK	300	1000	14	15.7	16.7	14.4	f ₂ +w/2	4	29	224048	220002

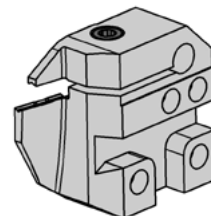
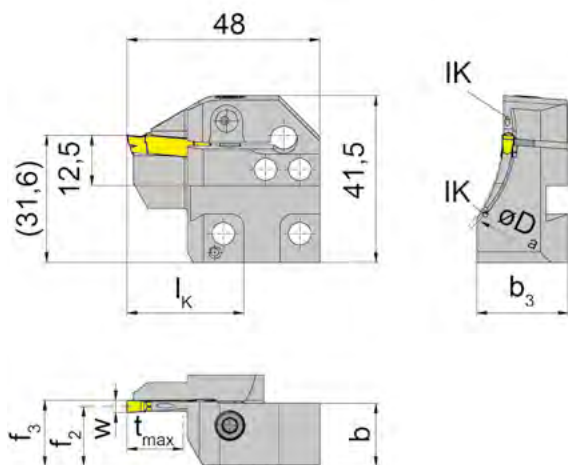
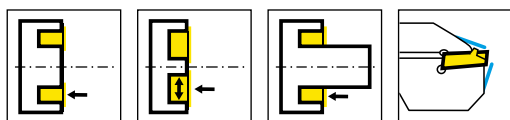
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LAK224...	5.13T20P	T20PQ	6 Nm



L = left hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	b ₃	f ₂	f ₃	w	l _K	HWS	HMS
LAK224.3847.05.IK	38	47	14	15.7	23.7	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.4760.05.IK	47	60	14	15.7	23.7	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.6075.05.IK	60	75	14	15.7	23.7	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.7590.05.IK	75	90	14	15.7	22	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.9013.05.IK	90	130	14	15.7	22	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.1318.05.IK	130	180	14	15.7	21	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.1830.05.IK	180	300	14	15.7	19	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.3000.05.IK	300	1000	14	15.7	16.7	13.9	f ₂ +w/2	5	29	224058	220002
LAK224.6075.06.IK	60	75	14	15.7	23	13.4	f ₂ +w/2	6	29	224068	220002
LAK224.7590.06.IK	75	90	14	15.7	23	13.4	f ₂ +w/2	6	29	224068	220002
LAK224.9013.06.IK	90	130	14	15.7	21	13.4	f ₂ +w/2	6	29	224068	220002
LAK224.1318.06.IK	130	180	14	15.7	21	13.4	f ₂ +w/2	6	29	224068	220002
LAK224.1830.06.IK	180	300	14	15.7	19	13.4	f ₂ +w/2	6	29	224068	220002
LAK224.3000.06.IK	300	1000	14	15.7	16.7	13.4	f ₂ +w/2	6	29	224068	220002

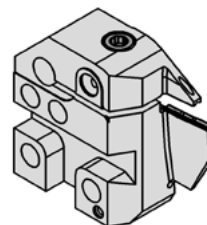
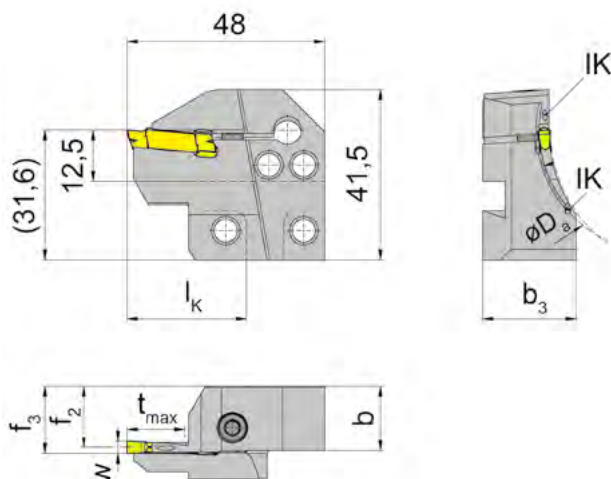
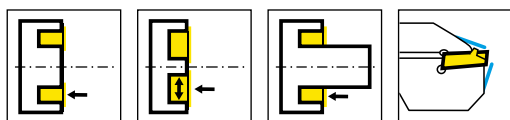
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LAK224...	5.13T20P	T20PQ	6 Nm



R = right hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	b_3	f_2	f_3	w	l_K	HWS	HMS
RAK224.5060.03.IK	50	60	14	15.7	23.7	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.6075.03.IK	60	75	14	15.7	22.7	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.7590.03.IK	75	90	14	15.7	22.7	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.9011.03.IK	90	110	14	15.7	21	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.1113.03.IK	110	130	14	15.7	21	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.1318.03.IK	130	180	14	15.7	20	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.1830.03.IK	180	300	14	15.7	19	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.3000.03.IK	300	1000	14	15.7	16.9	14.9	$f_2 + w/2$	3	29	224038	220001
RAK224.3847.04.IK	38	47	14	15.7	24.2	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.4760.04.IK	47	60	14	15.7	23.7	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.6075.04.IK	60	75	14	15.7	23.7	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.7590.04.IK	75	90	14	15.7	22.7	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.9013.04.IK	90	130	14	15.7	21	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.1318.04.IK	130	180	14	15.7	21	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.1830.04.IK	180	300	14	15.7	19	14.4	$f_2 + w/2$	4	29	224048	220001
RAK224.3000.04.IK	300	1000	14	15.7	16.7	14.4	$f_2 + w/2$	4	29	224048	220001

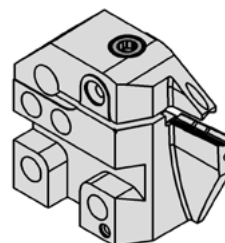
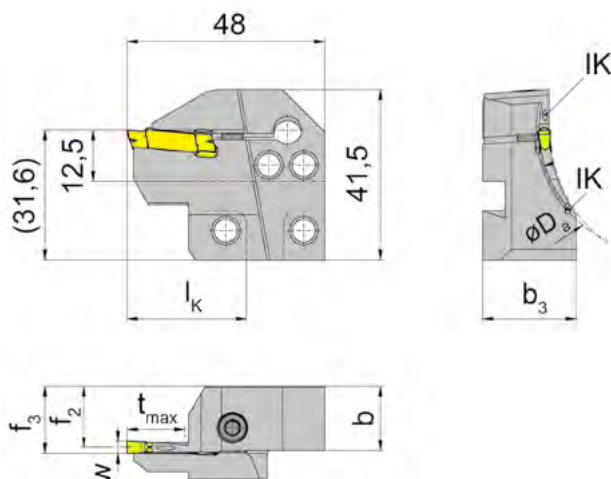
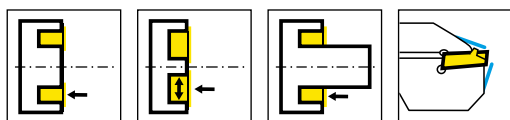
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RAK224...	5.13T20P	T20PQ	6 Nm



R = right hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	b_3	f_2	f_3	w	l_K	HWS	HMS
RAK224.3847.05.IK	38	47	14	15.7	23.7	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.4760.05.IK	47	60	14	15.7	23.7	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.6075.05.IK	60	75	14	15.7	23.7	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.7590.05.IK	75	90	14	15.7	22	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.9013.05.IK	90	130	14	15.7	22	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.1318.05.IK	130	180	14	15.7	21	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.1830.05.IK	180	300	14	15.7	19	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.3000.05.IK	300	1000	14	15.7	16.7	13.9	$f_2 + w/2$	5	29	224058	220001
RAK224.6075.06.IK	60	75	14	15.7	23	13.4	$f_2 + w/2$	6	29	224068	220001
RAK224.7590.06.IK	75	90	14	15.7	23	13.4	$f_2 + w/2$	6	29	224068	220001
RAK224.9013.06.IK	90	130	14	15.7	21	13.4	$f_2 + w/2$	6	29	224068	220001
RAK224.1318.06.IK	130	180	14	15.7	21	13.4	$f_2 + w/2$	6	29	224068	220001
RAK224.1830.06.IK	180	300	14	15.7	19	13.4	$f_2 + w/2$	6	29	224068	220001
RAK224.3000.06.IK	300	1000	14	15.7	16.7	13.4	$f_2 + w/2$	6	29	224068	220001

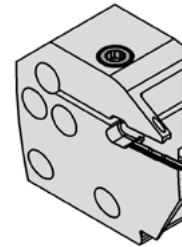
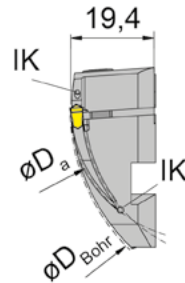
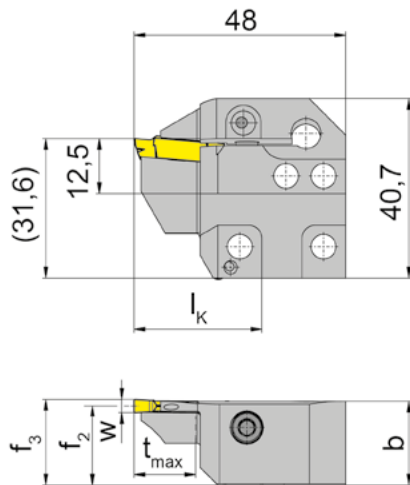
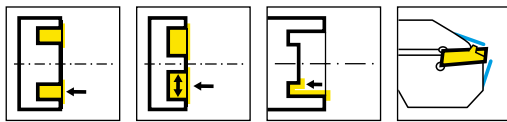
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RAK224...	5.13T20P	T20PQ	6 Nm



L = left hand version

Part number	D _{Bohr}	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
LIK224.5060.03.IK	90	50	60	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.6075.03.IK	90	60	75	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.7590.03.IK	90	75	90	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.9011.03.IK	90	90	110	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.1113.03.IK	110	110	130	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.1318.03.IK	130	130	180	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.1830.03.IK	180	180	300	14	19	17.9	f ₂ +w/2	3	29	224038	220002
LIK224.3000.03.IK	300	300	1000	14	19	17.4	f ₂ +w/2	3	29	224038	220002
LIK224.3847.04.IK	90	38	47	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.4760.04.IK	90	47	60	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.6075.04.IK	90	60	75	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.7590.04.IK	90	75	90	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.9013.04.IK	90	90	130	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.1318.04.IK	130	130	180	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.1830.04.IK	180	180	300	14	19	17.4	f ₂ +w/2	4	29	224048	220002
LIK224.3000.04.IK	300	300	1000	14	19	17.4	f ₂ +w/2	4	29	224048	220002

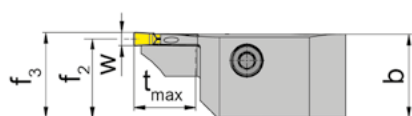
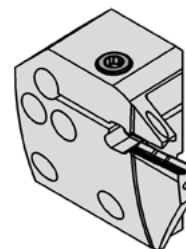
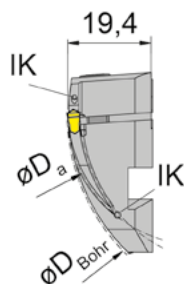
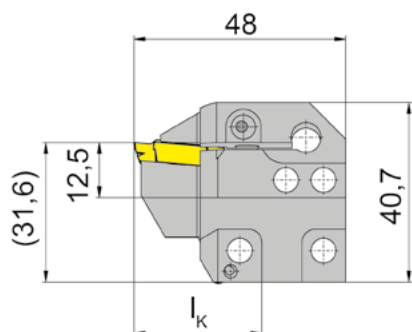
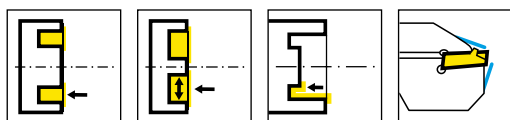
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LIK224...	5.13T20P	T20PQ	6 Nm



L = left hand version

Part number	D _{Bohr}	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
LIK224.3847.05.IK	90	38	47	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.4760.05.IK	90	47	60	14	19	17.4	f ₂ +w/2	5	29	224058	220002
LIK224.6075.05.IK	90	60	75	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.7590.05.IK	90	75	90	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.9013.05.IK	90	90	130	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.1318.05.IK	130	130	180	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.1830.05.IK	180	180	300	14	19	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.3000.05.IK	300	300	1000	14	18.9	16.9	f ₂ +w/2	5	29	224058	220002
LIK224.6075.06.IK	90	60	75	14	19	16.4	f ₂ +w/2	6	29	224068	220002
LIK224.7590.06.IK	90	75	90	14	19	16.4	f ₂ +w/2	6	29	224068	220002
LIK224.9013.06.IK	90	90	130	14	19	16.4	f ₂ +w/2	6	29	224068	220002
LIK224.1318.06.IK	130	130	180	14	19	16.4	f ₂ +w/2	6	29	224068	220002
LIK224.1830.06.IK	180	180	300	14	19	16.4	f ₂ +w/2	6	29	224068	220002
LIK224.3000.06.IK	300	300	1000	14	18.75	16.4	f ₂ +w/2	6	29	224068	220002

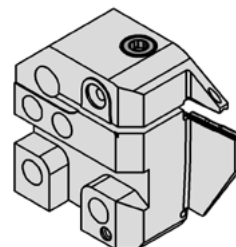
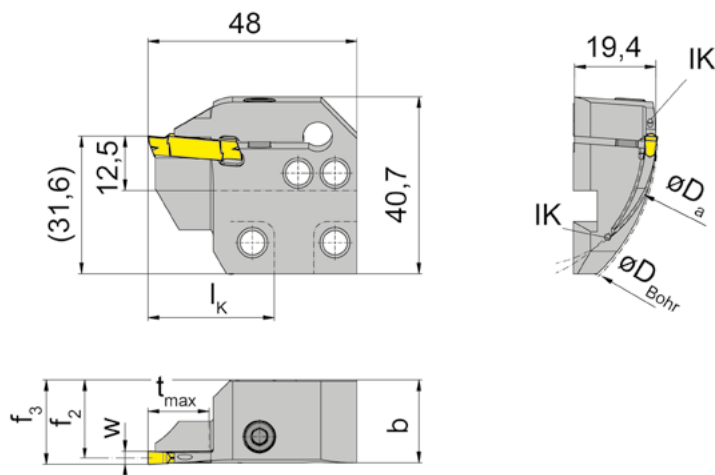
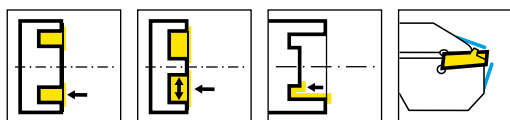
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LIK224...	5.13T20P	T20PQ	6 Nm



R = right hand version

Part number	D _{Bohr}	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
RIK224.5060.03.IK	90	50	60	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.6075.03.IK	90	60	75	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.7590.03.IK	90	75	90	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.9011.03.IK	90	90	110	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.1113.03.IK	110	110	130	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.1318.03.IK	130	130	180	14	19.05	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.1830.03.IK	180	180	300	14	19	17.9	f ₂ +w/2	3	29	224038	220001
RIK224.3000.03.IK	300	300	1000	14	19.1	17.4	f ₂ +w/2	3	29	224038	220001
RIK224.3847.04.IK	90	38	47	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.4760.04.IK	90	47	60	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.6075.04.IK	90	60	75	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.7590.04.IK	90	75	90	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.9013.04.IK	90	90	130	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.1318.04.IK	130	130	180	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.1830.04.IK	180	180	300	14	19	17.4	f ₂ +w/2	4	29	224048	220001
RIK224.3000.04.IK	300	300	1000	14	19	17.4	f ₂ +w/2	4	29	224048	220001

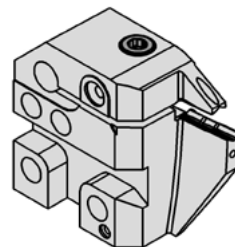
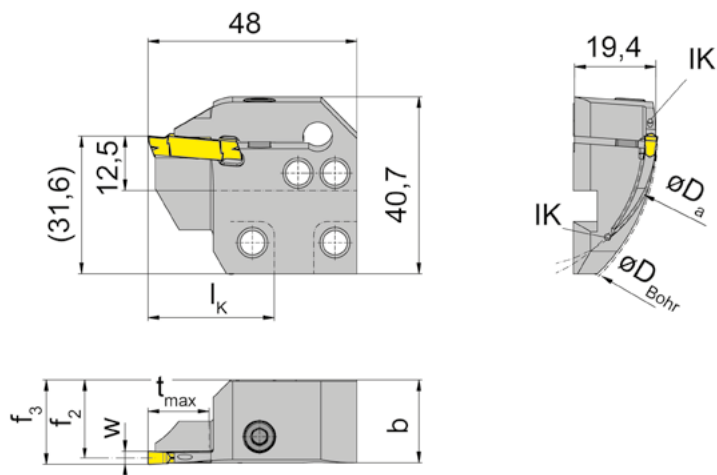
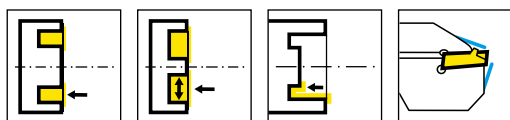
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RIK224...	5.13T20P	T20PQ	6 Nm



R = right hand version

Part number	D _{Bohr}	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
RIK224.3847.05.IK	90	38	47	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.4760.05.IK	90	47	60	14	19	17.4	f ₂ +w/2	5	29	224058	220001
RIK224.6075.05.IK	90	60	75	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.7590.05.IK	90	75	90	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.9013.05.IK	90	90	130	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.1318.05.IK	130	130	180	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.1830.05.IK	180	180	300	14	19	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.3000.05.IK	300	300	1000	14	18.9	16.9	f ₂ +w/2	5	29	224058	220001
RIK224.6075.06.IK	90	60	75	14	19	16.4	f ₂ +w/2	6	29	224068	220001
RIK224.7590.06.IK	90	75	90	14	19	16.4	f ₂ +w/2	6	29	224068	220001
RIK224.9013.06.IK	90	90	130	14	19	16.4	f ₂ +w/2	6	29	224068	220001
RIK224.1318.06.IK	130	130	180	14	19	16.4	f ₂ +w/2	6	29	224068	220001
RIK224.1830.06.IK	180	180	300	14	19	16.4	f ₂ +w/2	6	29	224068	220001
RIK224.3000.06.IK	300	300	1000	14	18.75	16.4	f ₂ +w/2	6	29	224068	220001

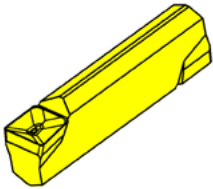
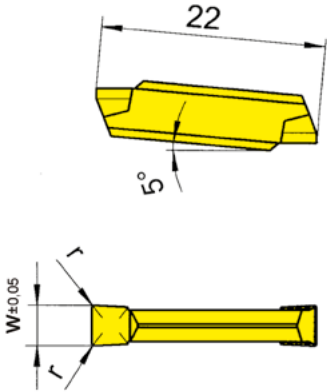
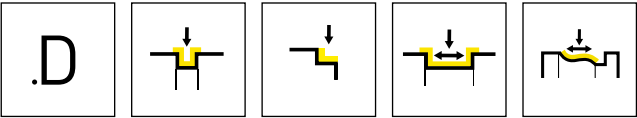
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RIK224...	5.13T20P	T20PQ	6 Nm

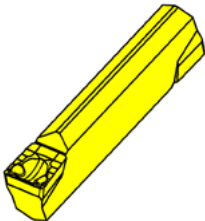
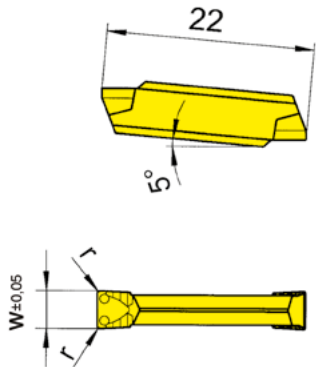
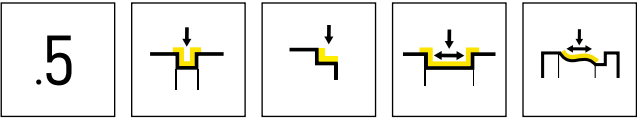


Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		H54	IG66	TF45	TF46	TI22	TI25	TN32	TN35
S224.0300.D2.G	3	0.2	224038				▲	▲	▲			
S224.0300.D2	3	0.2	224038		▲		▲	▲		▲	▲	▲
S224.0400.D2.G	4	0.2	224048					▲	▲			
S224.0400.D2	4	0.2	224048		Δ	▲	▲	▲		▲	▲	▲
Dimensions in mm				P	●	●	○	○	●	●	●	●
				M	-	●	-	-	●	●	-	-
				K	-	●	-	-	-	-	●	●
				N	-	-	-	-	○	○	-	-
				S	-	○	-	-	-	-	-	-
				H	-	-	-	-	-	-	-	-

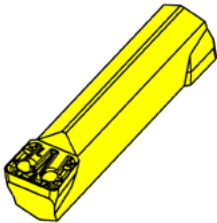
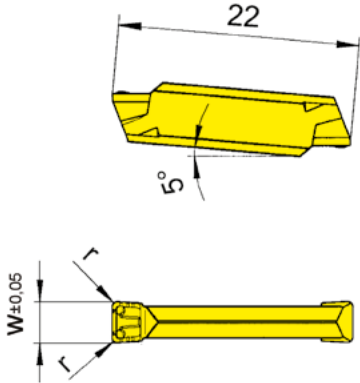
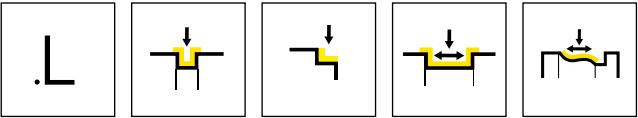




Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS	AS62	AS66	EG56	IG66	TF45	TI25	TN32	TN35
S224.0300.52	3	0.2	224038	▲	▲	▲		▲	▲	▲	▲
S224.0300.54	3	0.4	224038	▲	▲	▲		▲	▲	▲	▲
S224.0400.52	4	0.2	224048	▲	▲	▲		▲	▲	▲	▲
S224.0400.54	4	0.4	224048	▲	▲	▲	▲	▲	▲	▲	▲
S224.0500.54	5	0.4	224058	▲	▲	▲		▲	▲	▲	▲
S224.0500.58	5	0.8	224058	▲	▲	▲	▲		▲	Δ	Δ
Dimensions in mm				P	●	●	●	●	●	●	●
				M	○	●	○	●	-	-	-
				K	○	○	○	●	-	-	●
				N	-	-	-	-	○	-	-
				S	-	-	-	○	-	-	-
				H	-	-	-	-	-	-	-



Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	HIS		AS62	AS66	IG66	TF42	TI22
S224.0400.L4	4	0.4	224048		▲	▲	▲	▲	▲
S224.0500.L4	5	0.4	224058		▲	▲	▲	▲	▲
S224.0500.L6	5	0.6	224058		▲	▲		▲	
S224.0600.L4	6	0.4	224068		▲			▲	▲
S224.0600.L6	6	0.6	224068		▲		▲	▲	▲
Dimensions in mm				P	•	•	•	•	•
				M	o	•	•	-	•
				K	o	o	•	-	-
				N	-	-	-	-	o
				S	-	-	o	-	-
				H	-	-	-	-	-





U

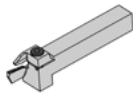
SYSTEM 229

Max Depth .157"-.984" / 4-25mm

Width of Groove .118"-.236" / 3-6mm

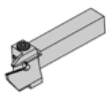
HOLDERS

Square Shank



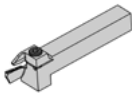
Page 667

Face Groove with Boss
Left Hand



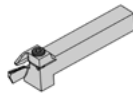
Page 668

Face Groove with Boss
Right Hand



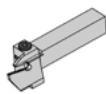
Page 669

Face Groove with Boss
Left and Right Hand



Page 670

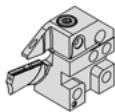
Face Groove with Boss
Extended Depth, Left



Page 671

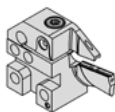
Face Groove with Boss
Extended Depth, Right

Modular Cassette



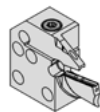
Page 672-673

Face Groove with Boss
Left Hand



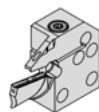
Page 674-675

Face Groove with Boss
Right Hand



Page 676-677

Face Groove Internal
Left Hand



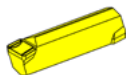
Page 678-679

Face Groove Internal
Right Hand

INSERTS

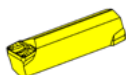
Grooving, Turning, Parting Off

Face Grooving



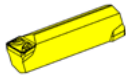
Page 680

.3 Chipbreaker
Groove, Turn, Part Off



Page 681

.5 Chipbreaker
Groove and Turn



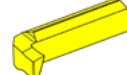
Page 682

.A Chipbreaker
Groove and Turn



Page 683

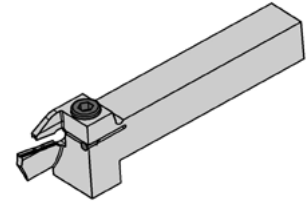
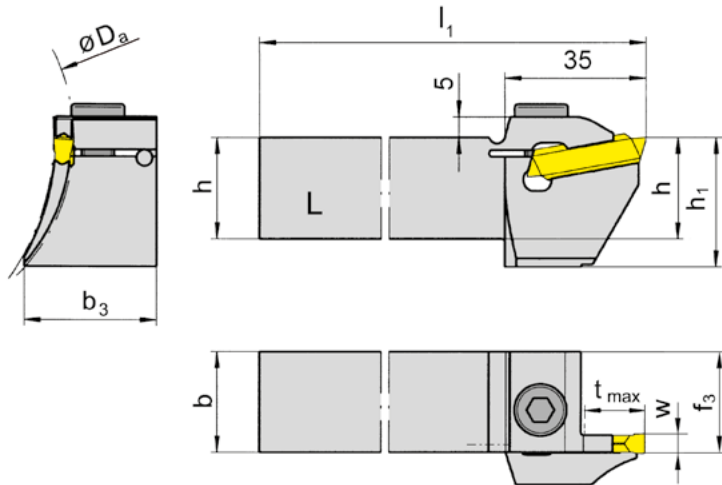
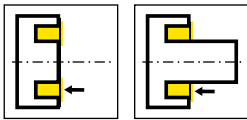
.L Chipbreaker
Groove and Turn



Page 684

.10 Geometry
Cranked Face Groove

Cutting Data and Technical Instructions - Chapter V / Page 706



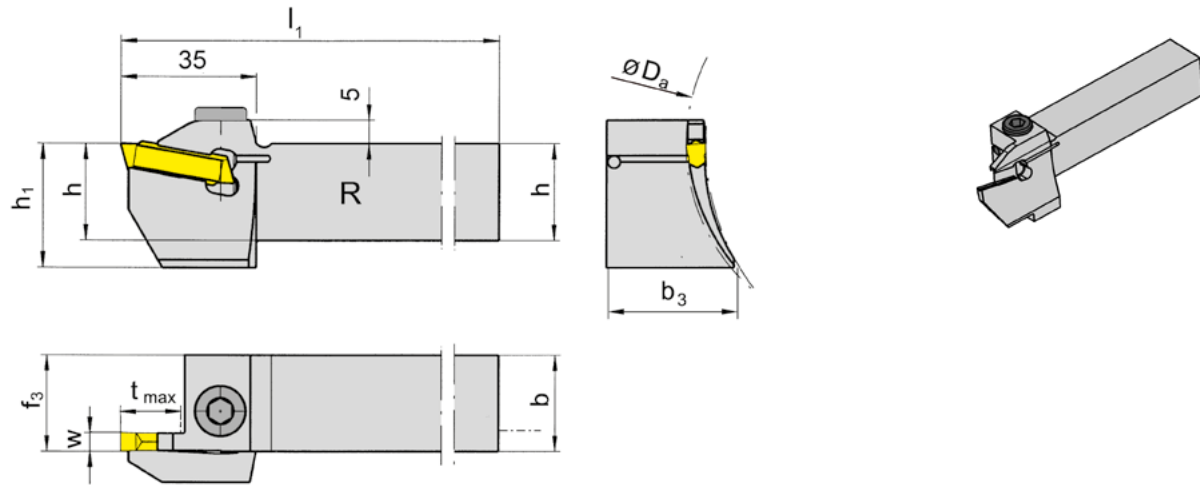
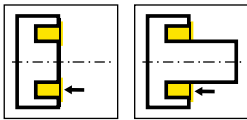
L = left hand version

Part number	h	b	l_1	h_1	b_3	f_3	t_{max}	$D_{a\ min}$	$D_{a\ max}$	w	HWS
LA210.20.9513.14	20	20	150	32	26	20.5	15	95	130	4	229040
LA210.20.1318.14	20	20	150	32	25	20.5	15	130	180	4	229040
LA210.25.9513.14	25	25	150	32	31	25.5	15	95	130	4	229040
LA210.25.1318.14	25	25	150	32	30	25.5	15	130	180	4	229040
LA210.20.9513.15	20	20	150	32	28	20.5	15	95	130	5	229050 • 229051
LA210.20.1318.15	20	20	150	32	25	20.5	15	130	180	5	229050 • 229051
LA210.25.9513.15	25	25	150	32	33	25.5	15	95	130	5	229050 • 229051
LA210.25.1318.15	25	25	150	32	30	25.5	15	130	180	5	229050 • 229051
LA210.25.1318.18	25	25	150	32	30.5	25.5	15	130	180	8	229080 • 229081

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
LA210...	218.3	7 Nm



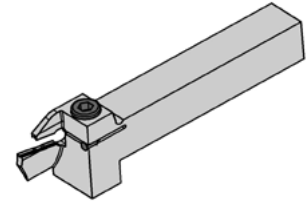
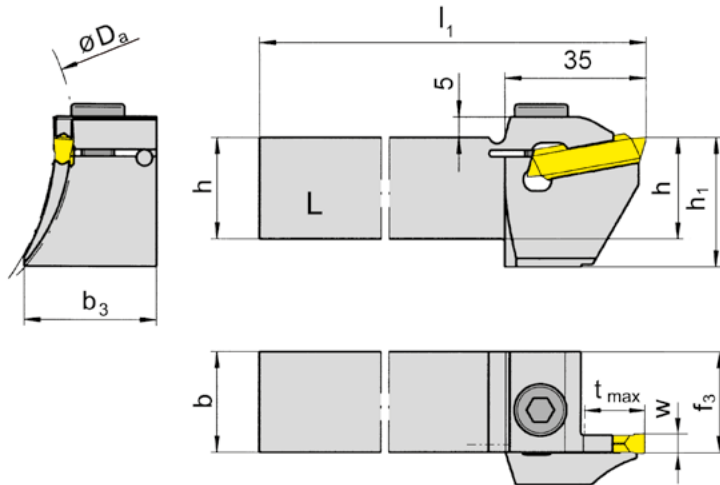
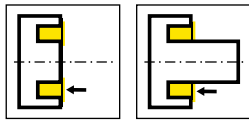
R = right hand version

Part number	h	b	l_1	h_1	b_3	f_3	t_{max}	$D_{a\ min}$	$D_{a\ max}$	w	HWS
RA210.20.9513.14	20	20	150	32	26	20.5	15	95	130	4	229040
RA210.25.9513.14	25	25	150	32	31	25.5	15	95	130	4	229040
RA210.25.1318.14	25	25	150	32	30	25.5	15	130	180	4	229040
RA210.20.1318.15	20	20	150	32	25	20.5	15	130	180	5	229050 • 229051
RA210.25.9513.15	25	25	150	32	33	25.5	15	95	130	5	229050 • 229051
RA210.25.1318.15	25	25	150	32	30	25.5	15	130	180	5	229050 • 229051
RA210.32.1318.15	32	32	150	32	37	32.5	15	130	180	5	229050 • 229051
RA210.25.1318.18	25	25	150	32	30.5	25.5	15	130	180	8	229080 • 229081

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
RA210...	218.3	7 Nm

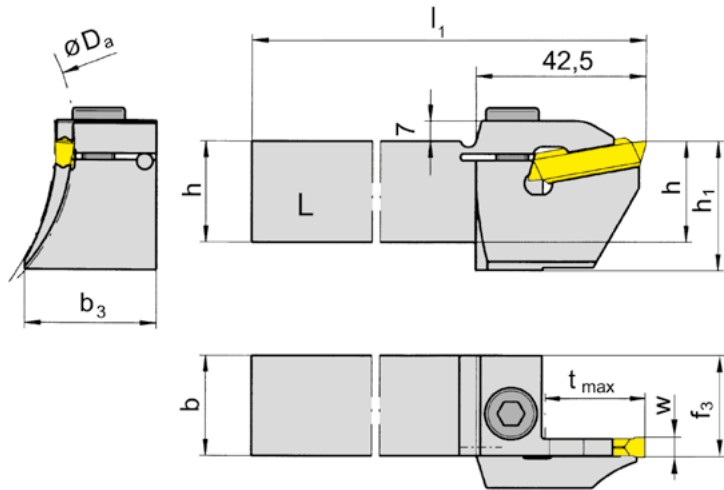
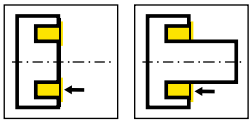


Part number	h	b	l_1	h_1	b_3	f_3	t_{max}	$D_{a \min}$	$D_{a \max}$	w	HWS
RA210.20.1318.15	20	20	150	32	25	20.5	15	130	180	5	229050 • 229051
RA210.20.9513.14	20	20	150	32	26	20.5	15	95	130	4	229040
RA210.25.1318.14	25	25	150	32	30	25.5	15	130	180	4	229040
RA210.25.1318.15	25	25	150	32	30	25.5	15	130	180	5	229050 • 229051
RA210.25.1318.18	25	25	150	32	30.5	25.5	15	130	180	8	229080 • 229081
RA210.25.9513.14	25	25	150	32	31	25.5	15	95	130	4	229040
RA210.25.9513.15	25	25	150	32	33	25.5	15	95	130	5	229050 • 229051
RA210.32.1318.15	32	32	150	32	37	32.5	15	130	180	5	229050 • 229051
LA210.20.1318.14	20	20	150	32	25	20.5	15	130	180	4	229040
LA210.20.1318.15	20	20	150	32	25	20.5	15	130	180	5	229050 • 229051
LA210.20.9513.14	20	20	150	32	26	20.5	15	95	130	4	229040
LA210.20.9513.15	20	20	150	32	28	20.5	15	95	130	5	229050 • 229051
LA210.25.1318.14	25	25	150	32	30	25.5	15	130	180	4	229040
LA210.25.1318.15	25	25	150	32	30	25.5	15	130	180	5	229050 • 229051
LA210.25.1318.18	25	25	150	32	30.5	25.5	15	130	180	8	229080 • 229081
LA210.25.9513.14	25	25	150	32	31	25.5	15	95	130	4	229040
LA210.25.9513.15	25	25	150	32	33	25.5	15	95	130	5	229050 • 229051

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
R/LA210...	218.3	7 Nm



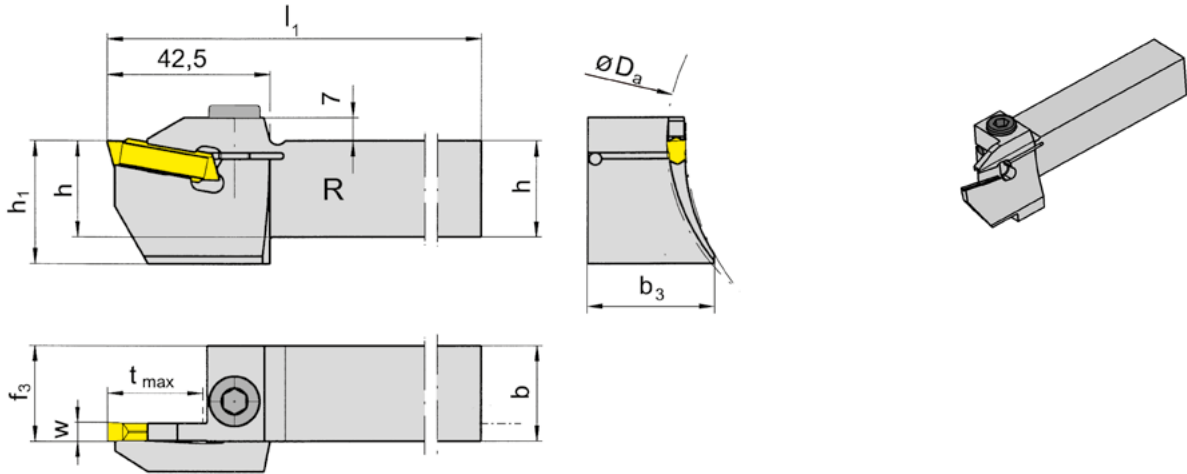
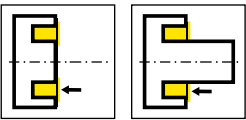
L = left hand version

Part number	h	b	l_1	h_1	f_3	t_{max}	$D_{a\ min}$	$D_{a\ min2}$	w	b_3	HWS
LA226.20.9513.04	20	20	150	32	20.5	25	95	130	4	26	229040
LA226.20.1318.04	20	20	150	32	20.5	25	130	180	4	25	229040
LA226.25.9513.04	25	25	150	32	25.5	25	95	130	4	31	229040
LA226.25.1318.04	25	25	150	32	25.5	25	130	180	4	30	229040
LA226.20.9513.05	20	20	150	32	20.5	25	95	130	5	28	229050 • 229051
LA226.20.1318.05	20	20	150	32	20.5	25	130	180	5	25	229050 • 229051
LA226.25.9513.05	25	25	150	32	25.5	25	95	130	5	33	229050 • 229051
LA226.25.1318.05	25	25	150	32	25.5	25	130	180	5	30	229050 • 229051

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
LA226...	218.3	7 Nm



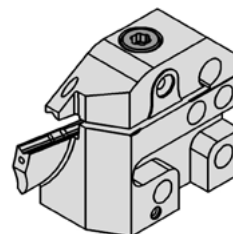
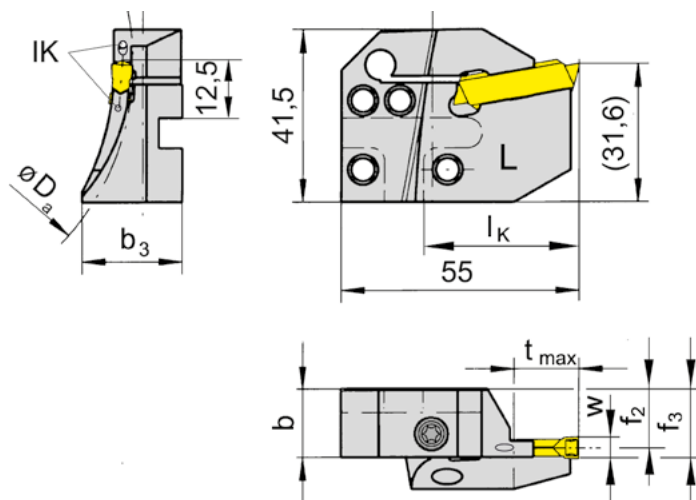
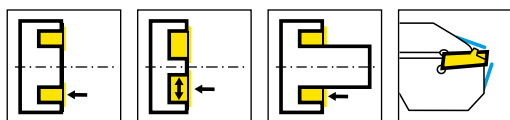
R = right hand version

Part number	h	b	l ₁	h ₁	f ₃	t _{max}	D _{a min}	D _{a min2}	w	b ₃	HWS
RA226.20.9513.04	20	20	150	32	20.5	25	95	130	4	26	229040
RA226.20.1318.04	20	20	150	32	20.5	25	130	180	4	25	229040
RA226.25.9513.04	25	25	150	32	25.5	25	95	130	4	31	229040
RA226.25.1318.04	25	25	150	32	25.5	25	130	180	4	30	229040
RA226.20.9513.05	20	20	150	32	20.5	25	95	130	5	28	229050 • 229051
RA226.20.1318.05	20	20	150	32	20.5	25	130	180	5	25	229050 • 229051
RA226.25.9513.05	25	25	150	32	25.5	25	95	130	5	33	229050 • 229051
RA226.25.1318.05	25	25	150	32	25.5	25	130	180	5	30	229050 • 229051

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	Torque Value
RA226...	218.3	7 Nm



L = left hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	b_3	f_2	f_3	w	l_K	HWS	HMS
LAK220.6575.14.IK	65	75	10	15.7	23	14.4	$f_2+w/2$	4	36	229040	220002
LAK220.7595.14.IK	75	95	15	15.7	23	14.4	$f_2+w/2$	4	36	229040	220002
LAK220.9513.14.IK	95	130	15	15.7	21.2	14.4	$f_2+w/2$	4	36	229040	220002
LAK220.1318.14.IK	130	180	15	15.7	21.2	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.1830.14.IK	180	300	15	15.7	19	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.6075.15.IK	60	75	10	15.7	23	13.9	$f_2+w/2$	5	36	229050 • 229051	220002
LAK220.7595.15.IK	75	95	15	15.7	23	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.9513.15.IK	95	130	15	15.7	23	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.1318.15.IK	130	180	15	15.7	21.2	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.1830.15.IK	180	300	15	15.7	19	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.6075.16.IK	60	75	10	15.7	23	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.7595.16.IK	75	95	15	15.7	23	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.9513.16.IK	95	130	15	15.7	23	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LAK220.1318.16.IK	130	180	15	15.7	21.2	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.1830.16.IK	180	300	15	15.7	19	13.4	$f_2+w/2$	6	36	229040	220002

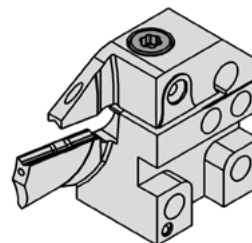
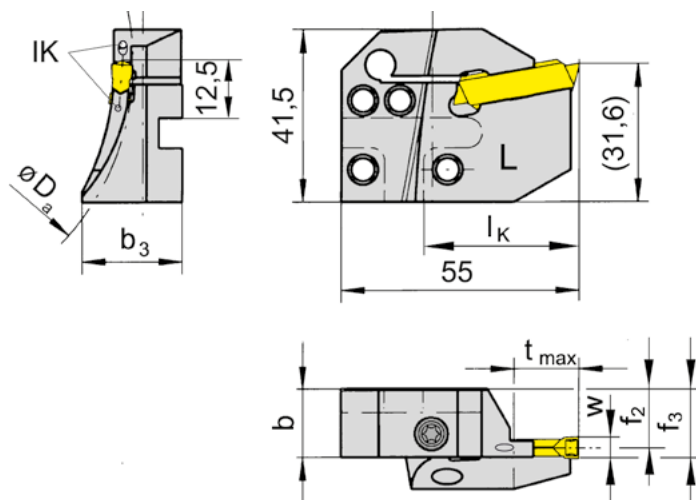
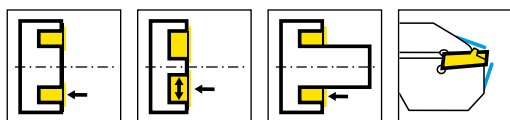
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LAK220...	6.23T25P	T25PQ	7 Nm



L = left hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	b_3	f_2	f_3	w	l_K	HWS	HMS
LAK220.6575.04.IK	65	75	10-15	15.7	23	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.7595.04.IK	75	95	15-25	15.7	23	14.4	$f_2+w/2$	4	36	229040	220002
LAK220.9513.04.IK	95	130	25	15.7	21.2	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.1318.04.IK	130	180	25	15.7	21.2	14.4	$f_2+w/2$	4	36	229040	220002
LAK220.1830.04.IK	180	300	25	15.7	21.2	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.3000.04.IK	300	1000	25	15.7	16.8	14.4	$f_2+w/2$	4	36	229050 • 229051	220002
LAK220.6075.05.IK	60	75	10-17	15.7	23	13.9	$f_2+w/2$	5	36	229050 • 229051	220002
LAK220.7595.05.IK	75	95	17-25	15.7	23	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.9513.05.IK	95	130	25	15.7	23	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.1318.05.IK	130	180	25	15.7	21.2	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.1830.05.IK	180	300	25	15.7	19	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.3000.05.IK	300	1000	25	15.7	16.8	13.9	$f_2+w/2$	5	36	229040	220002
LAK220.6075.06.IK	60	75	10-17	15.7	23	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.7595.06.IK	75	95	17-25	15.7	23	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LAK220.9513.06.IK	95	130	25	15.7	23	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.1318.06.IK	130	180	25	15.7	21.2	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.1830.06.IK	180	300	25	15.7	19	13.4	$f_2+w/2$	6	36	229040	220002
LAK220.3000.06.IK	300	1000	25	15.7	16.8	13.4	$f_2+w/2$	6	36	229040	220002

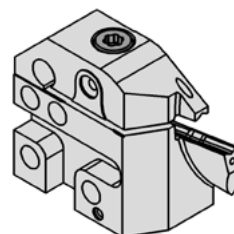
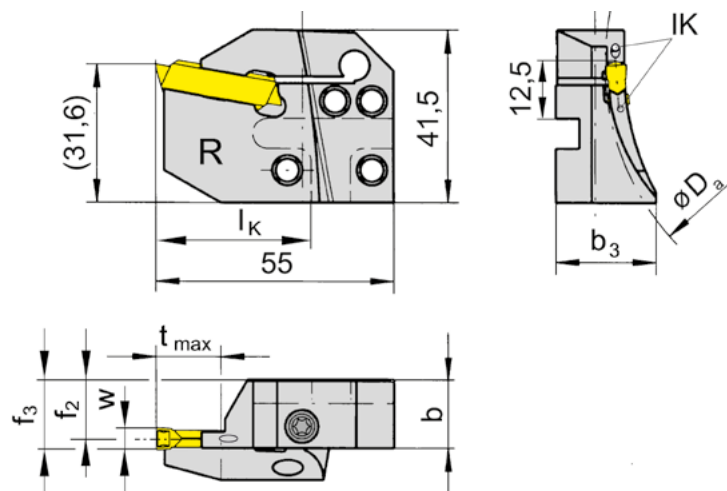
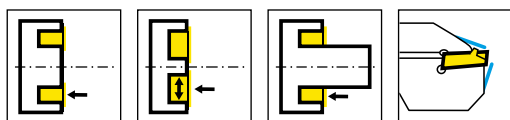
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LAK220...	6.23T25P	T25PQ	7 Nm



R = right hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	b ₃	f ₂	f ₃	w	l _K	HWS	HMS
RAK220.6575.14.IK	65	75	10	15.7	23	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.7595.14.IK	75	95	15	15.7	23	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.9513.14.IK	95	130	15	15.7	21.2	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.1318.14.IK	130	180	15	15.7	21.2	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.1830.14.IK	180	300	15	15.7	19	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.6075.15.IK	60	75	10	15.7	23	13.4	f ₂ +w/2	5	36	229040	220001
RAK220.7595.15.IK	75	95	15	15.7	23	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.9513.15.IK	95	130	15	15.7	23	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.1318.15.IK	130	180	15	15.7	21.2	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.1830.15.IK	180	300	15	15.7	19	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.6075.16.IK	60	75	10	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.7595.16.IK	75	95	15	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.9513.16.IK	95	130	15	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.1318.16.IK	130	180	15	15.7	21.2	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.1830.16.IK	180	300	15	15.7	19	13.4	f ₂ +w/2	6	36	229050 • 229051	220001

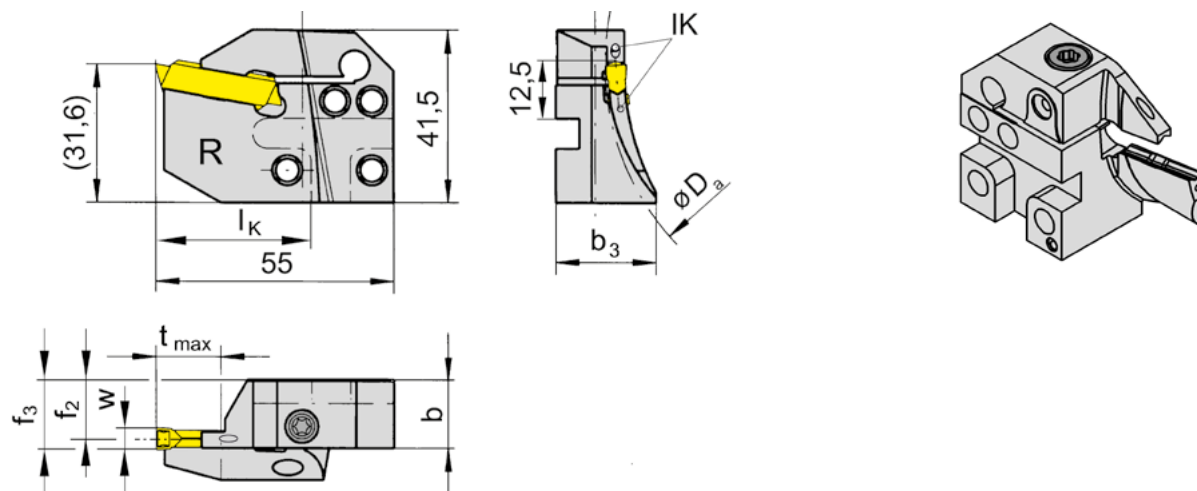
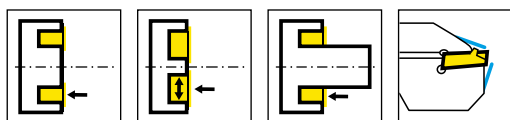
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RAK220...	6.23T25P	T25PQ	7 Nm



R = right hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	b ₃	f ₂	f ₃	w	l _K	HWS	HMS
RAK220.6575.04.IK	65	75	10-15	15.7	23	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.7595.04.IK	75	95	15-25	15.7	23	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.9513.04.IK	95	130	25	15.7	21.2	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.1318.04.IK	130	180	25	15.7	21.2	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.1830.04.IK	180	300	25	15.7	19	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.3000.04.IK	300	1000	25	15.7	16.8	14.4	f ₂ +w/2	4	36	229040	220001
RAK220.6075.05.IK	60	75	10-17	15.7	23	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.7595.05.IK	75	95	17-25	15.7	23	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.9513.05.IK	95	130	25	15.7	23	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.1318.05.IK	130	180	25	15.7	21.2	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.1830.05.IK	180	300	25	15.7	19	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.3000.05.IK	300	1000	25	15.7	16.8	13.9	f ₂ +w/2	5	36	229040	220001
RAK220.6075.06.IK	60	75	10-17	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.7595.06.IK	75	95	17-25	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.9513.06.IK	95	130	25	15.7	23	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.1318.06.IK	130	180	25	15.7	21.2	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.1830.06.IK	180	300	25	15.7	19	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RAK220.3000.06.IK	300	1000	25	15.7	16.8	13.4	f ₂ +w/2	6	36	229050 • 229051	220001

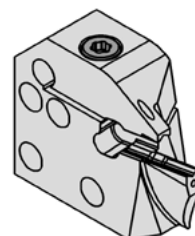
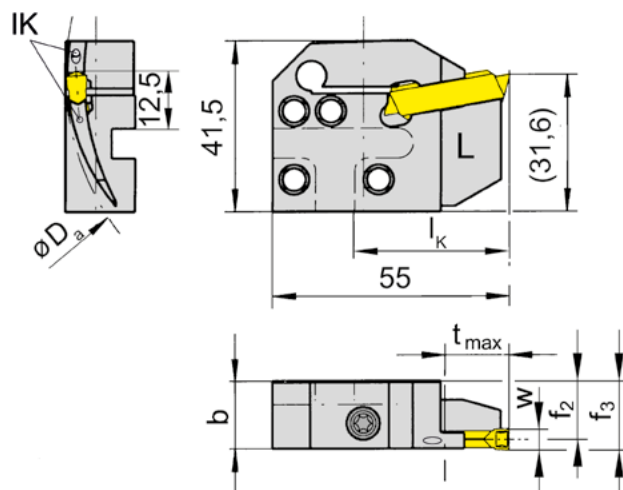
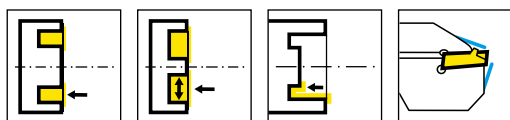
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RAK220...	6.23T25P	T25PQ	7 Nm



L = left hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	f_2	f_3	w	l_K	HWS	HMS
LIK220.6575.14.IK	65	75	10	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.7595.14.IK	75	95	15	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.9513.14.IK	95	130	15	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.1830.14.IK	180	300	15	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.6075.15.IK	60	75	10	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.9513.15.IK	95	130	15	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.1318.15.IK	130	180	15	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.1830.15.IK	180	300	15	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.6075.16.IK	130	180	10	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.7595.16.IK	75	95	15	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.9513.16.IK	95	130	15	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.1318.16.IK	130	180	15	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.1830.16.IK	180	300	15	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002

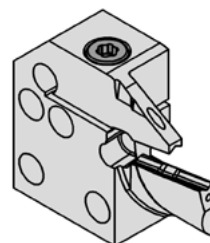
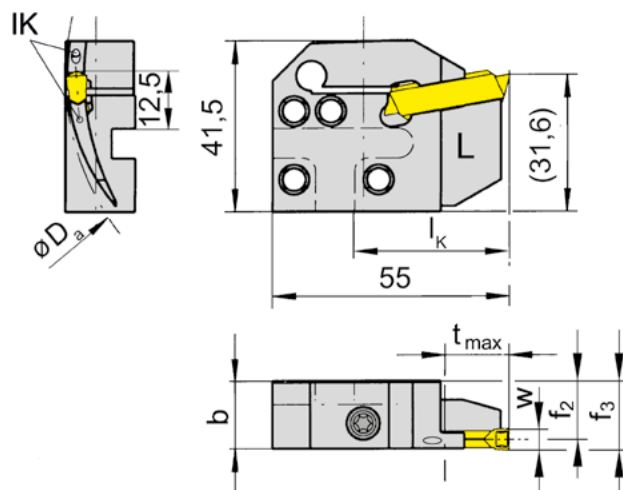
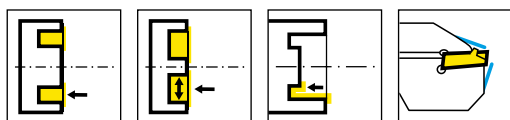
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LIK220...	6.23T25P	T25PQ	7 Nm



L = left hand version

Part number	$D_{a \min}$	$D_{a \max}$	$t_{\max}$	b	f_2	f_3	w	l_K	HWS	HMS
LIK220.6575.04.IK	65	75	10-15	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.7595.04.IK	75	95	17-25	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.9513.04.IK	95	130	25	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.1318.04.IK	130	180	25	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.1830.04.IK	180	300	25	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.3000.04.IK	300	1000	25	15.7	14.4	$f_2+w/2$	4	36	229040	220002
LIK220.6075.05.IK	60	75	10-17	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.7595.05.IK	75	95	17-25	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.9513.05.IK	95	130	25	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.1318.05.IK	130	180	25	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.1830.05.IK	180	300	25	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.3000.05.IK	300	1000	25	15.7	13.9	$f_2+w/2$	5	36	229040	220002
LIK220.6075.06.IK	60	75	10-17	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.7595.06.IK	75	95	17-25	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.9513.06.IK	95	130	25	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.1318.06.IK	130	180	25	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.1830.06.IK	180	300	25	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002
LIK220.3000.06.IK	300	1000	25	15.7	13.4	$f_2+w/2$	6	36	229050 • 229051	220002

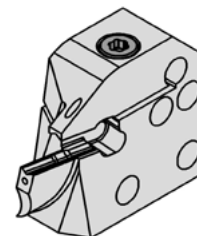
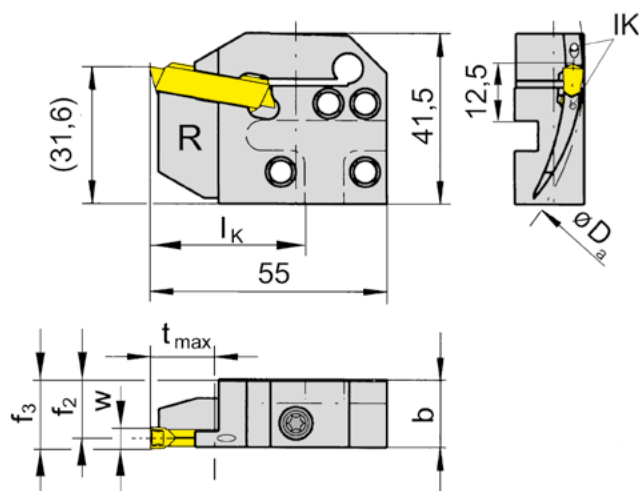
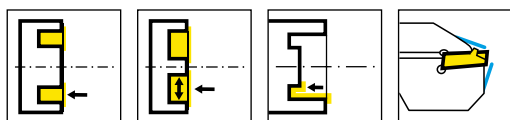
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
LIK220...	6.23T25P	T25PQ	7 Nm



R = right hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
RIK220.6575.14.IK	65	75	10	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.7595.14.IK	75	95	15	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.9513.14.IK	95	130	15	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.1318.14.IK	130	180	15	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.1830.14.IK	180	300	15	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.6075.15.IK	60	75	10	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.7595.15.IK	75	95	15	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.9513.15.IK	95	130	15	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.1318.15.IK	130	180	15	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.1830.15.IK	180	300	15	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.6075.16.IK	60	75	10	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.7595.16.IK	75	95	15	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.9513.16.IK	95	130	15	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.1318.16.IK	130	180	15	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.1830.16.IK	180	300	15	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001

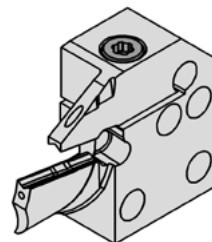
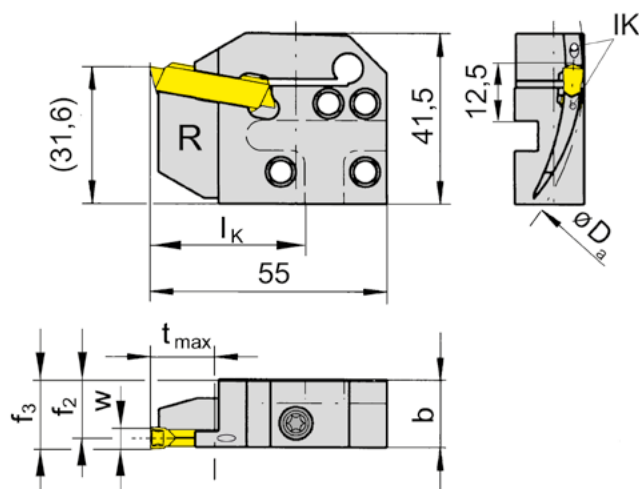
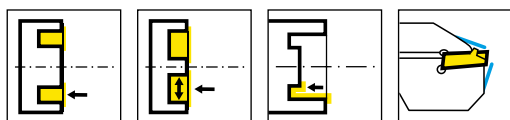
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RIK220...	6.23T25P	T25PQ	7 Nm



R = right hand version

Part number	D _{a min}	D _{a max}	t _{max}	b	f ₂	f ₃	w	l _K	HWS	HMS
RIK220.6575.04.IK	65	75	10-15	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.7595.04.IK	75	95	17-25	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.9513.04.IK	95	130	25	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.1318.04.IK	130	180	25	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.1830.04.IK	180	300	25	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.3000.04.IK	300	1000	25	15.7	14.4	f ₂ +w/2	4	36	229040	220001
RIK220.6075.05.IK	60	75	10-17	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.7595.05.IK	75	95	17-25	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.9513.05.IK	95	130	25	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.1318.05.IK	130	180	25	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.1830.05.IK	180	300	25	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.3000.05.IK	300	1000	25	15.7	13.9	f ₂ +w/2	5	36	229040	220001
RIK220.6075.06.IK	60	75	10-17	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.7595.06.IK	75	95	17-25	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.9513.06.IK	95	130	25	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.1318.06.IK	130	180	25	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.1830.06.IK	180	300	25	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001
RIK220.3000.06.IK	300	1000	25	15.7	13.4	f ₂ +w/2	6	36	229050 • 229051	220001

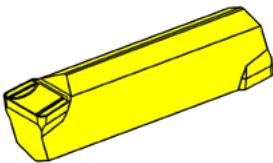
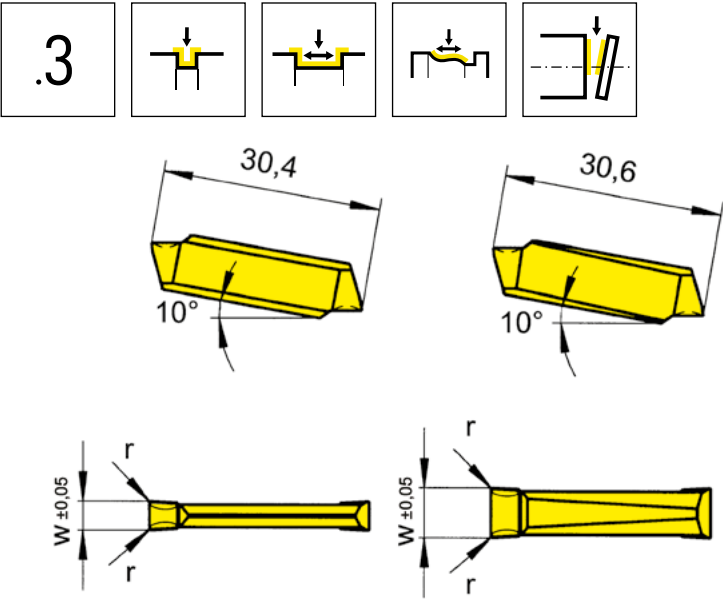
Please note insert width

The cassette mounting screws are included with the basic toolholder - no separate order is required.

Dimensions in mm

Spare Parts

Cassette	Clamping Screw	TORX PLUS® Wrench	Torque Value
RIK220...	6.23T25P	T25PQ	7 Nm



Width 4 - 5 mm

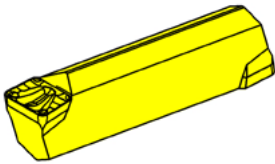
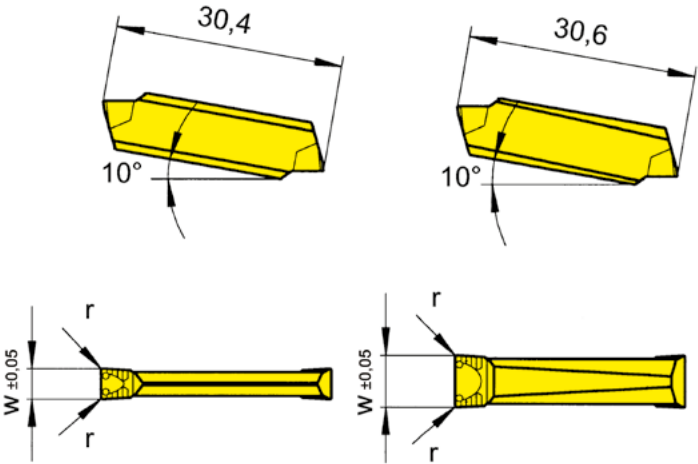
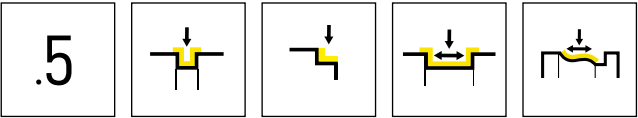
Width 6 mm

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS		AL96	AS62	AS66	H54	IG66	TF45	TI22	TI25	TN32	TN35
S229.0400.34	4	0.4	229030 • 229040			▲	▲	▲		▲		▲	▲	▲
S229.0500.34	5	0.4	229040			▲	▲	Δ		▲	▲	▲	▲	▲
S229.0500.36	5	0.6	229040									Δ		
S229.0600.34	6	0.4	229051		▲	▲	▲	Δ		▲	▲	▲	▲	▲
S229.0600.38	6	0.8	229051		▲	▲	▲		▲					
S229.0400.32	4	0.2	229030 • 229040			▲	▲	▲		▲		▲	▲	▲
Dimensions in mm				P	●	●	●	●	●	○	●	●	●	●
				M	-	○	●	-	●	-	●	●	-	-
				K	●	○	○	-	●	-	-	-	●	●
				N	●	-	-	-	-	-	○	○	-	-
				S	-	-	-	-	○	-	-	-	-	-
				H	-	-	-	-	-	-	-	-	-	-



Width 4 - 5 mm

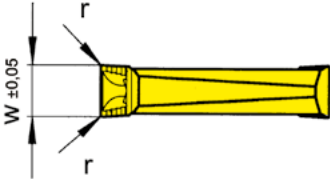
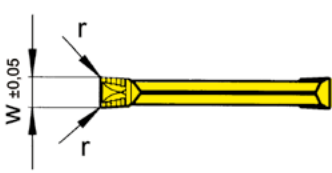
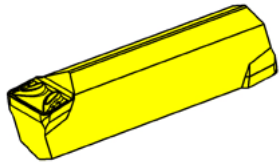
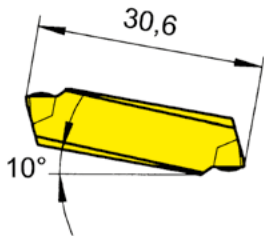
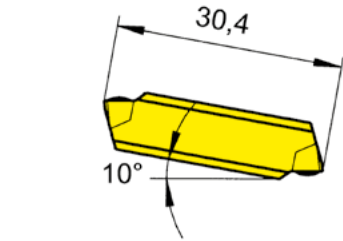
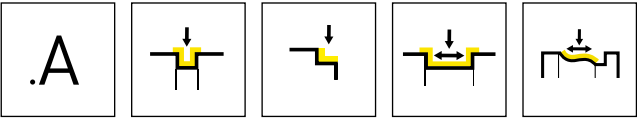
Width 6 mm

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	IG66	TF45	Ti22	Ti25	TN32	TN35
S229.0400.52	4	0.2	229030 • 229040	▲	▲	▲	▲	▲	▲	▲
S229.0400.54	4	0.4	229030 • 229040	▲	▲	▲	▲	▲	▲	▲
S229.0500.54	5	0.4	229040	▲		▲	▲	▲	▲	▲
S229.0500.56	5	0.6	229040					Δ		
S229.0600.54	6	0.4	229051	▲		▲		▲	▲	▲
S229.0600.56	6	0.6	229051		▲			Δ		
Dimensions in mm				P	●	●	○	●	●	●
				M	○	●	-	●	-	-
				K	○	●	-	-	●	●
				N	-	-	-	○	○	-
				S	-	○	-	-	-	-
				H	-	-	-	-	-	-



Width 4 - 5 mm

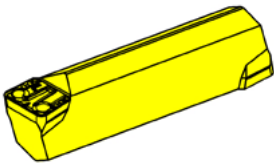
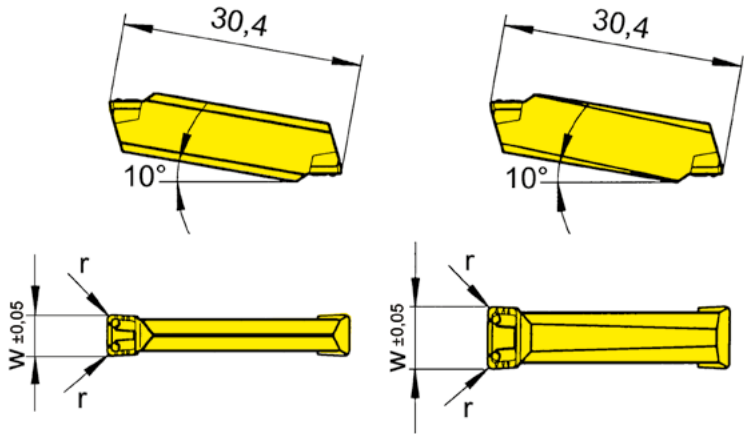
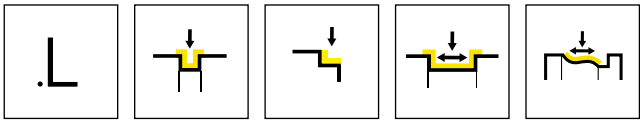
Width 6 mm

Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	TF42	TF45	Ti22	Ti25	TN32	TN35
S229.0400.A2	4	0.2	229030 • 229040	▲		▲	▲	▲	▲	▲
S229.0400.A4	4	0.4	229030 • 229040	▲	▲	Δ	▲	▲	▲	▲
S229.0500.A4	5	0.4	229040	▲		▲	▲	Δ	▲	▲
S229.0600.A4	6	0.4	229051	▲	▲	▲	▲	▲	▲	▲
Dimensions in mm				P	●	●	○	●	●	●
				M	○	-	-	●	●	-
				K	○	-	-	-	●	●
				N	-	-	-	○	○	-
				S	-	-	-	-	-	-
				H	-	-	-	-	-	-



Width 4 - 5 mm

Width 6 mm

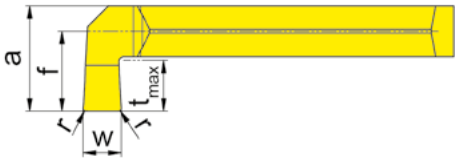
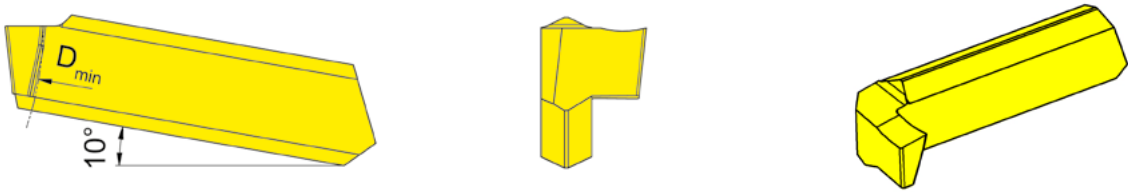
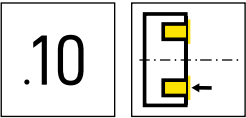
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	HIS	AS62	AS65	AS66	IG65	IG66	TF42	TI22
S229.0300.L6	3	0.6	229020 • 229030		▲		▲			
S229.0300.L8	3	0.8	229020 • 229030		▲		▲			
S229.0400.L4	4	0.4	229030 • 229040	▲		▲			▲	▲
S229.0500.L4	5	0.4	229040	▲		▲			▲	▲
S229.0500.L6	5	0.6	229040	▲		▲			▲	▲
S229.0600.L4	6	0.4	229050	▲		▲			▲	▲
S229.0600.L6	6	0.6	229050	▲		▲		▲	▲	▲
Dimensions in mm				P	•	•	•	•	•	•
				M	o	•	•	•	-	•
				K	o	o	o	•	-	-
				N	-	-	-	-	-	o
				S	-	-	-	o	o	-
				H	-	-	-	-	-	-





R = right hand version shown

L = left hand version

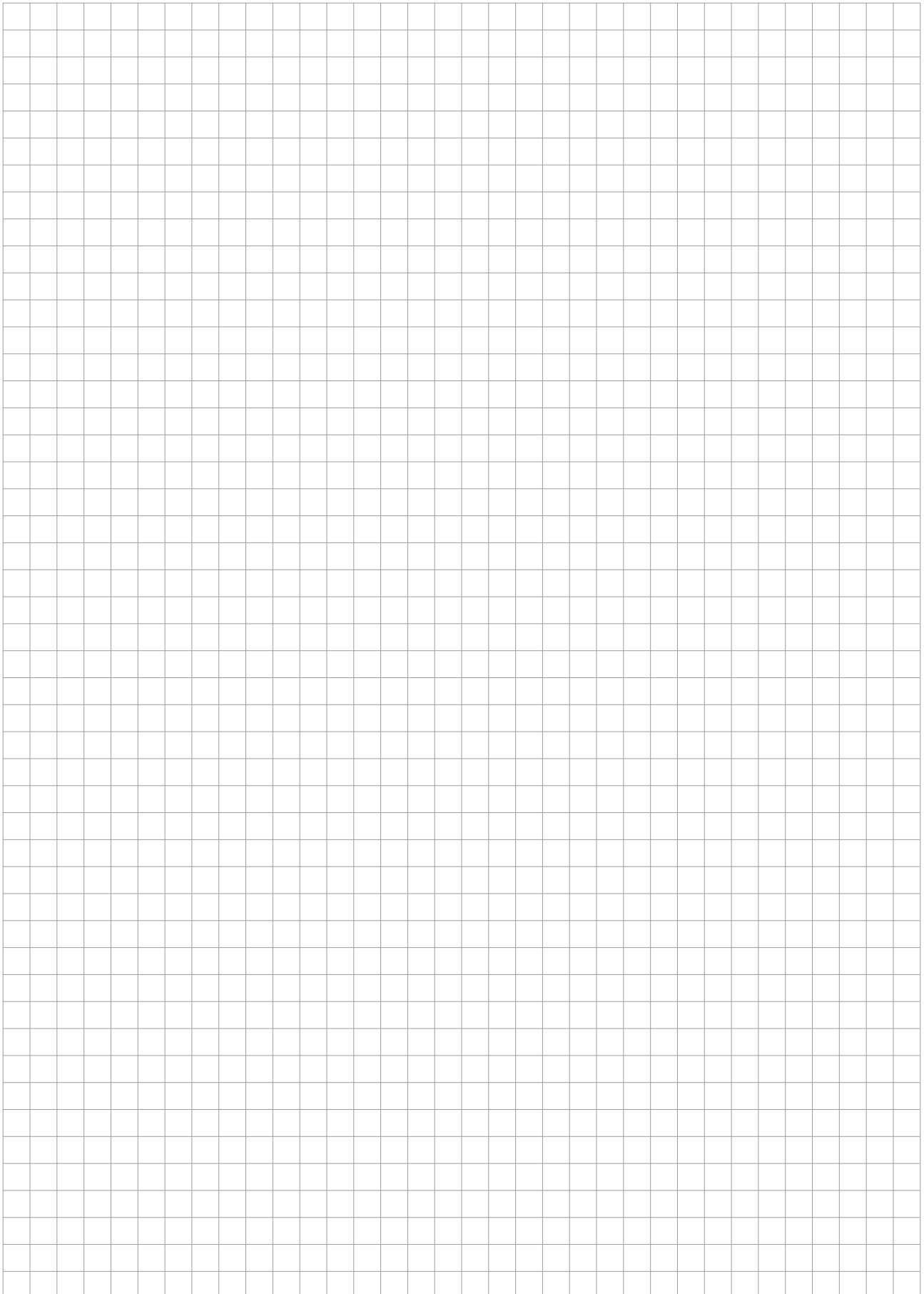
Coating grades

▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	a	f	D _{min}	HIS	AS65	
R229.3040.HA50.12	3	0.2	4	8.3	6.3	50	229040	Δ	●
R229.4040.HA50.12	4	0.2	4	8.3	6.3	50	229040	Δ	●
L229.3040.HA50.12	3	0.2	4	8.3	6.3	50	229040	Δ	●
L229.4040.HA50.12	4	0.2	4	8.3	6.3	50	229040	Δ	●

Dimensions in mm

P	●
M	●
K	●
N	-
S	-
H	-



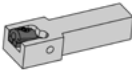
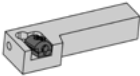
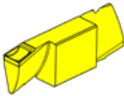
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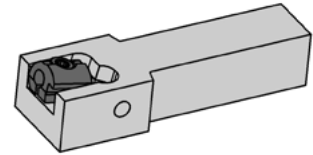
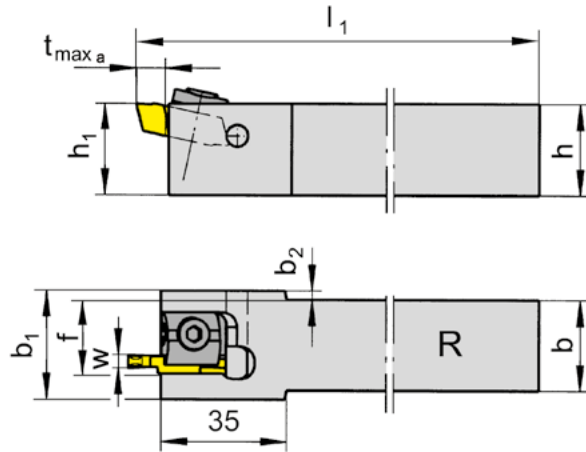
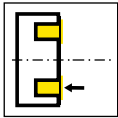
SYSTEM 231

Max Depth .314" / 8mm

Width of Groove .118"-.393" / 3-10mm

HOLDERS, INSERTS	Face Grooving		
			
	Page 689	Page 690	Page 691
	Face Grooving Metric Shank	Face Grooving Cranked, Metric Shank	.3 Chipbreaker Handed and Neutral

Cutting Data and Technical Instructions - Chapter V / Page 706



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	b ₁	f	t _{max a}	b ₂	D _{a min}	HWS
R221.2020.04	20	20	125	20	28	17.9	8	4	40	23104R • 23104N
R221.2525.04	25	25	150	25	28	20.4	8	1.5	40	23104R • 23104N
R221.2020.05	20	20	125	20	30	18.9	8	5	40	23105R • 23105N
R221.2525.05	25	25	150	25	30	21.4	8	2.5	40	23105R • 23105N
R221.2020.07	20	20	125	20	32	19.9	8	6	40	23107R • 23107N
R221.2525.07	25	25	150	25	32	22.4	8	3.5	40	23107R • 23107N
R221.2020.09	20	20	125	20	34	20.9	8	7	40	23109R • 23109N
R221.2525.09	25	25	150	25	34	23.4	8	4.5	40	23109R • 23109N
L221.2020.04	20	20	125	20	28	17.9	8	4	40	23104L • 23104N
L221.2525.04	25	25	150	25	28	20.4	8	1.5	40	23104L • 23104N
L221.2020.05	20	20	125	20	30	18.9	8	5	40	23105L • 23105N
L221.2525.05	25	25	150	25	30	21.4	8	2.5	40	23105L • 23105N
L221.2020.07	20	20	125	20	32	19.9	8	6	40	23107L • 23107N
L221.2525.07	25	25	150	25	32	22.4	8	3.5	40	23107L • 23107N
L221.2020.09	20	20	125	20	34	20.9	8	7	40	23109L • 23109N
L221.2525.09	25	25	150	25	34	23.4	8	4.5	40	23109L • 23109N

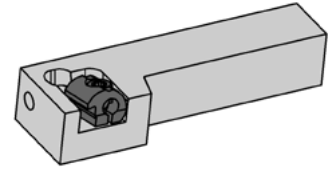
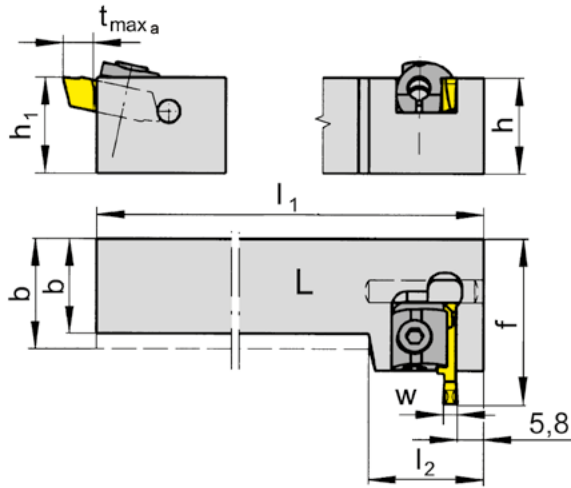
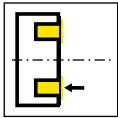
For the (w) dimension, see inserts

This toolholder can be used from D_a = 30 mm up to ∞ depending on grooving depth.

Dimensions in mm

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
R/L221...	01.60.12	T20PQ	5 Nm



L = left hand version shown

R = right hand version

Part number	h	b	h ₁	f	t _{max a}	D _{a min}	l ₁	l ₂	HWS
R228.2020.04	20	20	20	38.5	8	40	125	35.5	23104R • 23104N
R228.2525.04	25	25	25	38.5	8	40	150	35.5	23104R • 23104N
R228.2020.05	20	20	20	38.5	8	40	125	35.5	23105R • 23105N
R228.2525.05	25	25	25	38.5	8	40	150	35.5	23105R • 23105N
R228.2020.07	20	20	20	38.5	8	40	125	35.5	23107R • 23107N
R228.2525.07	25	25	25	38.5	8	40	150	35.5	23107R • 23107N
R228.2020.09	20	20	20	38.5	8	40	125	35.5	23109R • 23109N
R228.2525.09	25	25	25	38.5	8	40	150	35.5	23109R • 23109N
L228.2020.04	20	20	20	38.5	8	40	125	35.5	23104L • 23104N
L228.2525.04	25	25	25	38.5	8	40	150	35.5	23104L • 23104N
L228.2020.05	20	20	20	38.5	8	40	125	35.5	23105L • 23105N
L228.2525.05	25	25	25	38.5	8	40	150	35.5	23105L • 23105N
L228.2525.07	25	25	25	38.5	8	40	150	35.5	23107L • 23107N
L228.2020.09	20	20	20	38.5	8	40	125	35.5	23109L • 23109N
L228.2525.09	25	25	25	38.5	8	40	150	35.5	23109L • 23109N

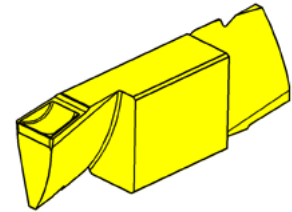
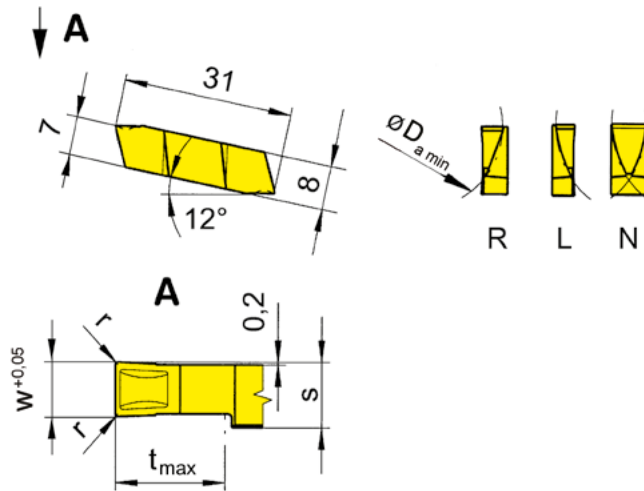
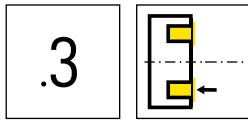
For the (w) dimension, see inserts

This toolholder can be used from D_a = 30 mm up to ∞ depending on grooving depth.

Dimensions in mm

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench	Torque Value
R/L228...	01.60.12	T20PQ	5 Nm



Coating grades

▲ In stock

Δ 2 weeks

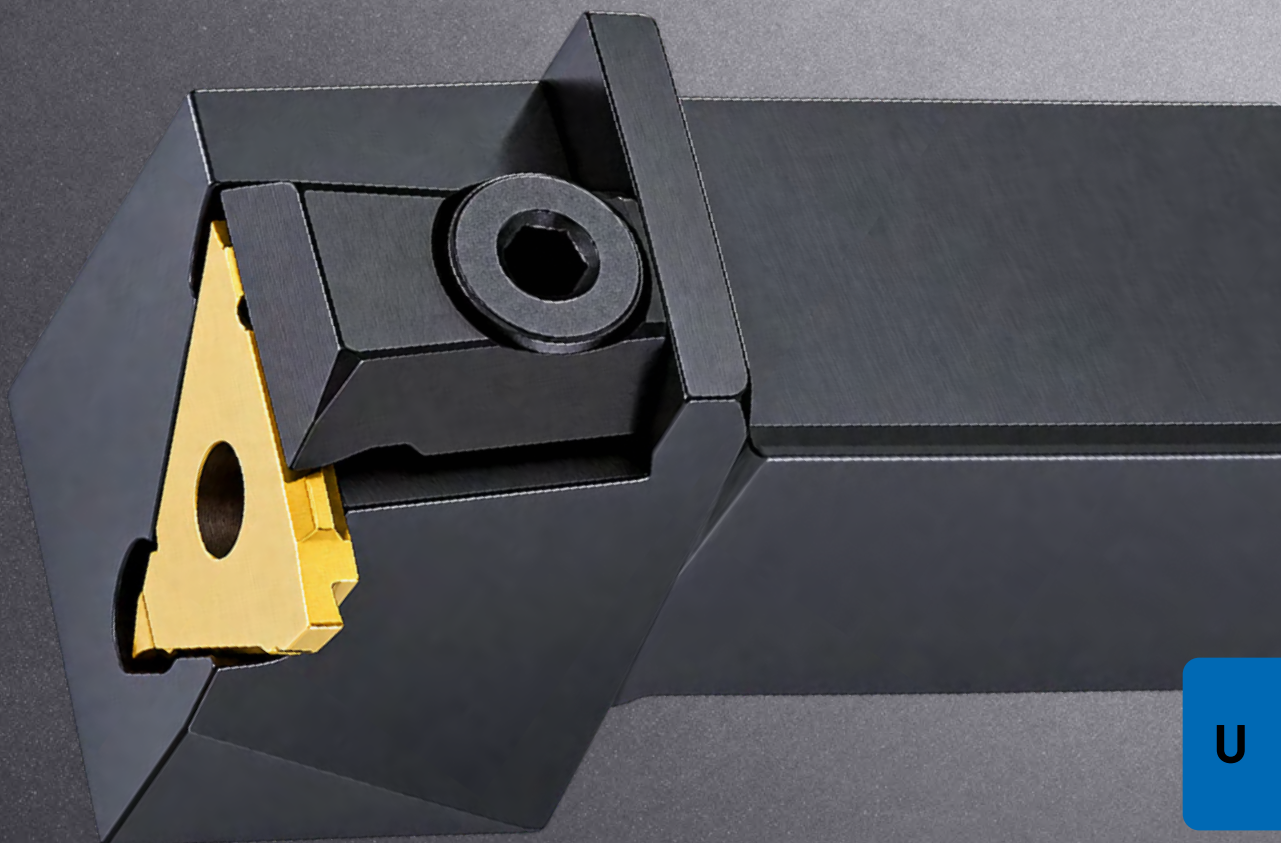
Part number	w	r	t _{max}	s	D _{a min}	HIS	TN35
R231.4030.32	3	0.2	8	3.8	40	23104R	▲
R231.4040.32	4	0.2	8	3.8	40	23104R	▲
R231.4050.34	5	0.4	8	5.8	40	23105R	▲
L231.4030.32	3	0.2	8	3.8	40	23104L	▲
L231.4040.32	4	0.2	8	3.8	40	23104L	▲
L231.4050.34	5	0.4	8	5.8	40	23105L	▲
N231.4060.34	6	0.4	8	5.8	40	23105N	▲
N231.4070.36	7	0.6	8	7.8	40	23107N	Δ
N231.4080.36	8	0.6	8	7.8	40	23107N	▲
N231.4090.38	9	0.8	8	9.8	40	23109N	▲
N231.4100.38	10	0.8	8	9.8	40	23109N	▲
							P ●
							M -
							K ●
							N -
							S -
							H -

Outer-Ø of groove < 40 mm upon request.

Dimensions in mm

U

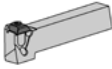
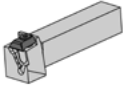
This image shows a full page of blank graph paper. The grid consists of thin, light gray horizontal and vertical lines that intersect to form small squares across the entire surface. There are no margins, text, or other markings on the paper.



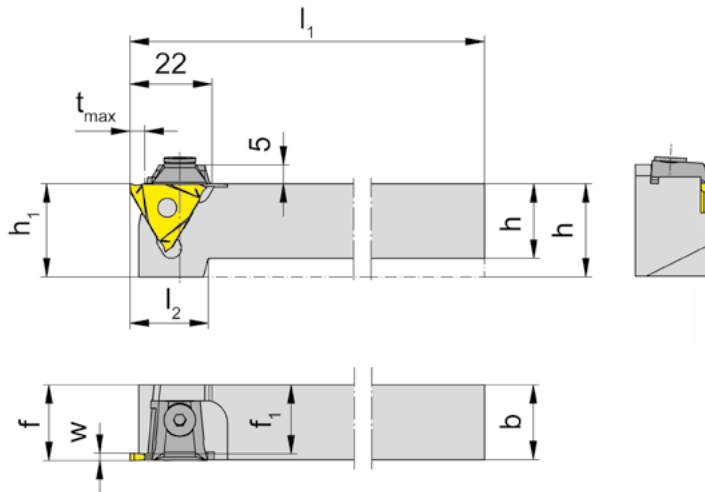
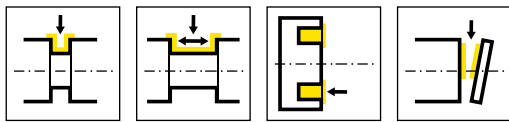
SYSTEM 312

Max Depth .078"-.138" / 2-3.5mm

Width of Groove .059"-.196" / 1.5-5mm

HOLDERS, INSERTS	Face Grooving		
			
	Page 693	Page 694	Page 695
	Face Grooving Metric Shank	Face Grooving Cranked, Metric Shank	Face Grooving with radius

Cutting Data and Technical Instructions - Chapter V / Page 706



R = right hand version shown

L = left hand version

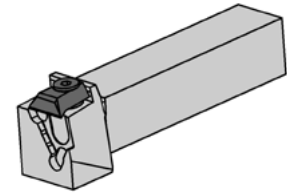
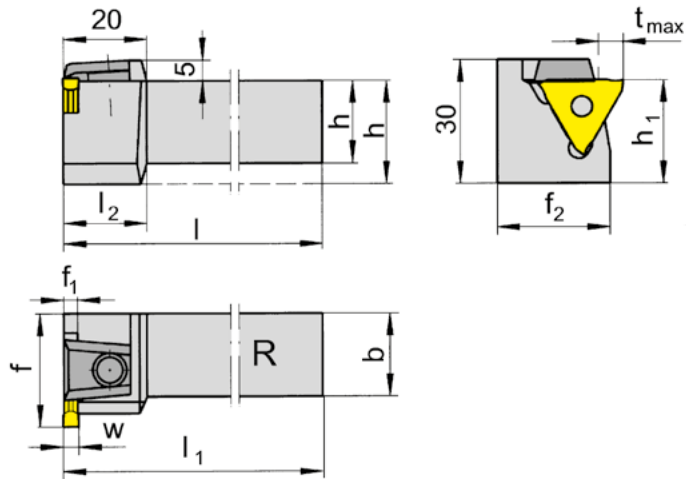
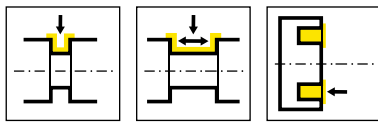
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
R360.1212.02	12	12	100	24	25	9.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
R360.1616.02	16	16	125	22	25	13.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
R360.2020.02	20	20	125	21	25	17.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
R360.2525.02	25	25	150	-	25	22.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
R360.3232.02	32	32	170	-	32	29.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
R360.1212.03	12	12	100	24	25	8.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.1616.03	16	16	125	22	25	12.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.2020.03	20	20	125	21	25	16.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
R360.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.1212.02	12	12	100	24	25	9.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
L360.1616.02	16	16	125	22	25	13.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
L360.2020.02	20	20	125	21	25	17.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
L360.2525.02	25	25	150	-	25	22.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
L360.3232.02	32	32	170	-	32	29.5	f ₁ +w-a ₁	6	31202N • 31202R • 31202L
L360.1212.03	12	12	100	24	25	8.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.1616.03	16	16	125	22	25	12.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.2020.03	20	20	125	21	25	16.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.2525.03	25	25	150	-	25	21.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L
L360.3232.03	32	32	170	-	32	28.5	f ₁ +w-a ₁	6	31203N • 31203R • 31203L

For the (w) and (a₁) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping element	Torque Value
R/L360....	11.3	4.5 Nm
R/L360...	16.4	4.5 Nm



R = right hand version shown

L = left hand version

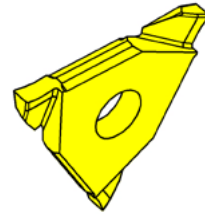
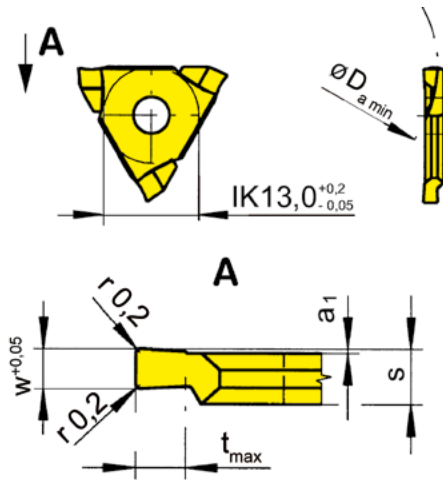
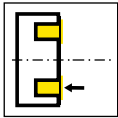
Part number	h	b	l	l_1	l_2	h_1	f	t_{max}	f_1	f_2	HWS
R369.2020.02	20	20	125	$l-f_1+w-a_1$	20	25	27	6	2.5	23.5	31202N • 31202R • 31202L
R369.2525.02	25	25	150	$l-f_1+w-a_1$	-	25	32	6	2.5	28.5	31202N • 31202R • 31202L
R369.2020.03	20	20	125	$l-f_1+w-a_1$	20	25	27	6	3.5	23.5	31203N • 31203R • 31203L
R369.2525.03	25	25	150	$l-f_1+w-a_1$	-	25	32	6	3.5	28.5	31203N • 31203R • 31203L
L369.2020.02	20	20	125	$l-f_1+w-a_1$	20	25	27	6	2.5	23.5	31202N • 31202R • 31202L
L369.2525.02	25	25	150	$l-f_1+w-a_1$	-	25	32	6	2.5	28.5	31202N • 31202R • 31202L
L369.2020.03	20	20	125	$l-f_1+w-a_1$	20	25	27	6	3.5	23.5	31203N • 31203R • 31203L
L369.2525.03	25	25	150	$l-f_1+w-a_1$	-	25	32	6	3.5	28.5	31203N • 31203R • 31203L

For the (w) and (a1) dimensions, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping element	Torque Value
R/L369...	16.4	4.5 Nm



Coating grades

R = right hand version shown

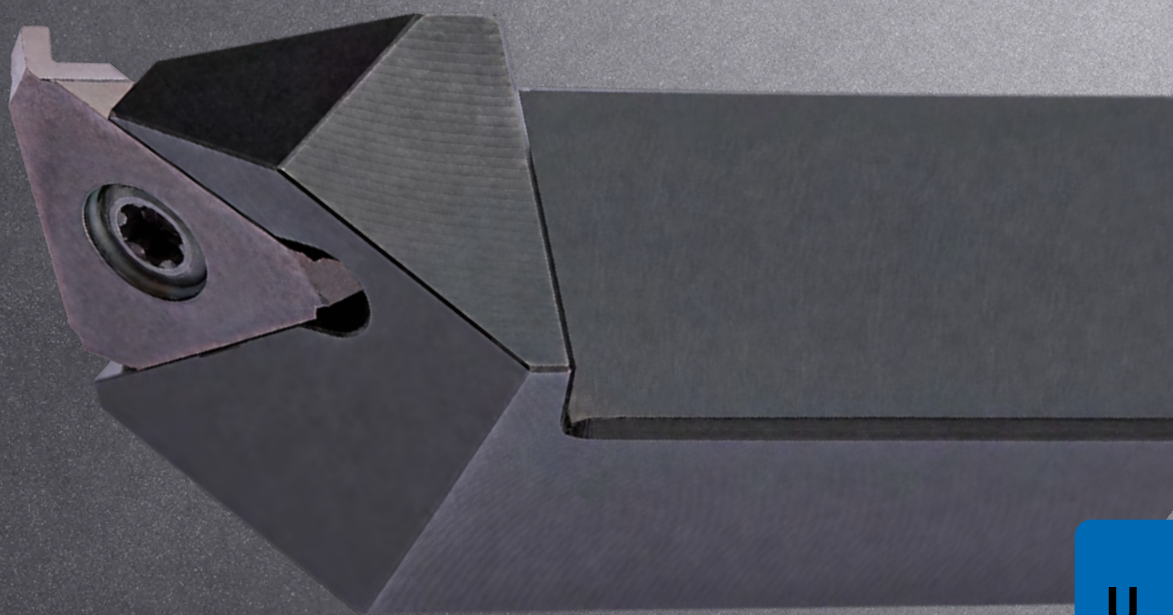
L = left hand version

▲ In stock

Δ 2 weeks

Part number	w	t _{max}	a ₁	s	D _{a min}	HIS	EG55	TN35
R312.2015.02	1.5	2	0.2	2.7	20	31202N • 31202R • 31202L	▲	▲
R312.3020.02	2	3	0.2	2.7	30	31202N • 31202R • 31202L	▲	▲
R312.3030.02	3	3	0.2	3.7	30	31203N • 31203R • 31203L	▲	▲
R312.3040.02	4	3.5	0.2	4.3	30	31204N • 31204R • 31204L	Δ	
R312.3050.02	5	3.5	0.2	5.3	30	31204N • 31204R • 31204L	Δ	
L312.2015.02	1.5	2	0.2	2.7	20	31202N • 31202L • 31202L	▲	▲
L312.3020.02	2	3	0.2	2.7	30	31202N • 31202L • 31202L	▲	▲
L312.3030.02	3	3	0.2	3.7	30	31203N • 31203L • 31203L	▲	▲
L312.3050.02	5	3.5	0.2	5.3	30	31204N • 31204L • 31204L	Δ	
Dimensions in mm							P	●
							M	●
							K	o
							N	-
							S	-
							H	-

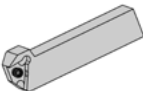
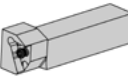
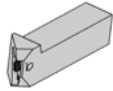
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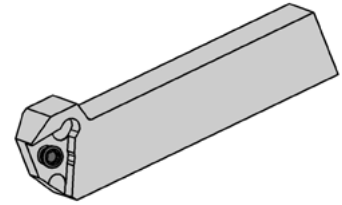
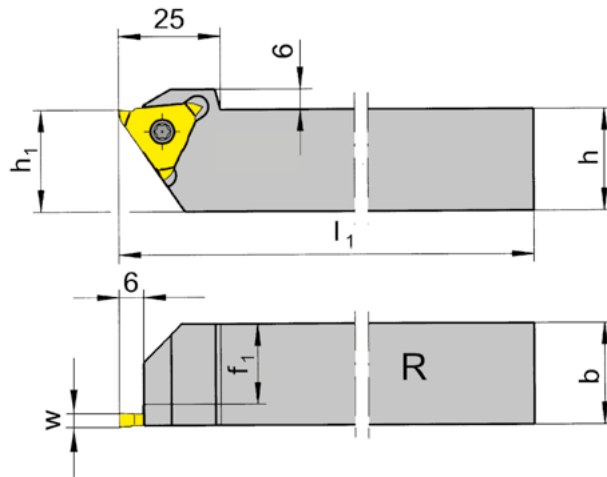
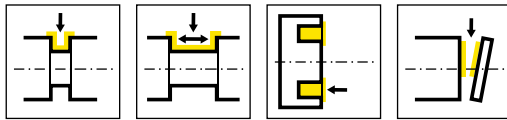


SYSTEM 315

Max Depth .063"-.118" / 1.6-3mm

Width of Groove .059"-.118" / 1.5-3mm

HOLDERS, INSERTS	Face Grooving				
					
	Page 701 Face Grooving Metric Shank	Page 702 Face Grooving Cranked, Metric	Page 703 Face Grooving 45° Angle	Page 704 Face Grooving 45° Angle	Page 705-706 Face Grooving Sweep Options
	Cutting Data and Technical Instructions - Chapter V / Page 706				



R = right hand version shown

L = left hand version

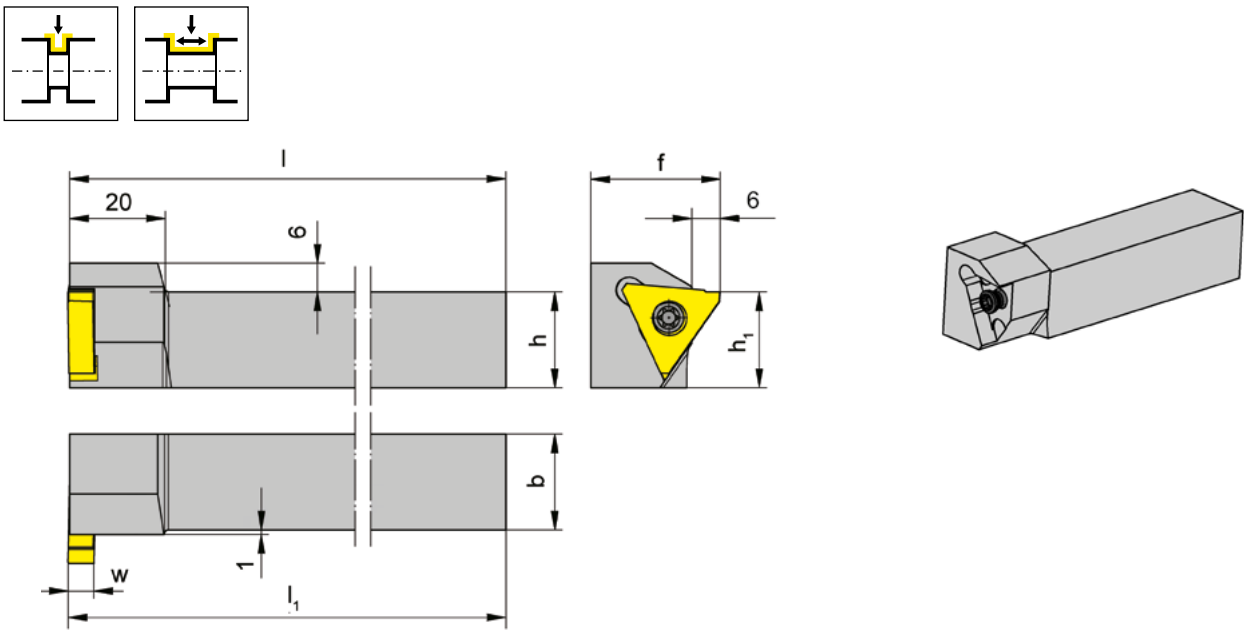
Part number	h	b	l ₁	h ₁	f ₁	HWS
R356.1616.03	16	16	125	20	13	31503R
R356.2020.03	20	20	125	20	17	31503R
R356.2525.03	25	25	150	25	22	31503R
R356.3232.03	32	32	170	32	29	31503R
R356.1616.05	16	16	125	20	10.8	31505R
R356.2020.05	20	20	125	20	14.8	31505R
R356.2525.05	25	25	150	25	19.8	31505R
R356.3232.05	32	32	170	32	26.8	31505R
R356.2525.07	25	25	150	25	18	31507R
R356.2020.07	20	20	125	20	13	31507R
R356.3232.07	32	32	170	32	25	31507R
L356.1616.03	16	16	125	20	13	31503L
L356.2020.03	20	20	125	20	17	31503L
L356.2525.03	25	25	150	25	22	31503L
L356.3232.03	32	32	170	32	29	31503L
L356.1616.05	16	16	125	20	10.8	31505L
L356.2020.05	20	20	125	20	14.8	31505L
L356.2525.05	25	25	150	25	19.8	31505L
L356.3232.05	32	32	170	32	26.8	31505L
L356.2525.07	25	25	150	25	18	31507L
L356.2020.07	20	20	125	20	13	31507L
L356.3232.07	32	32	170	32	25	31507L

For the (w) dimension, see inserts

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L356...03/.05	5.12T20P	T20PQ	6.5 Nm
R/L356...07	5.15T20P	T20PQ	6.5 Nm



R = right hand version shown L = left hand version

Part number	h	b	l ₁	l	h ₁	f	HWS
R357.2020.05	20	20	125.3	125	20	27	31505L
R357.2525.05	25	25	150.3	150	25	32	31505L
L357.2020.05	20	20	125.3	125	20	27	31505R
L357.2525.05	25	25	150.3	150	25	32	31505R

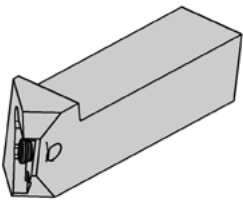
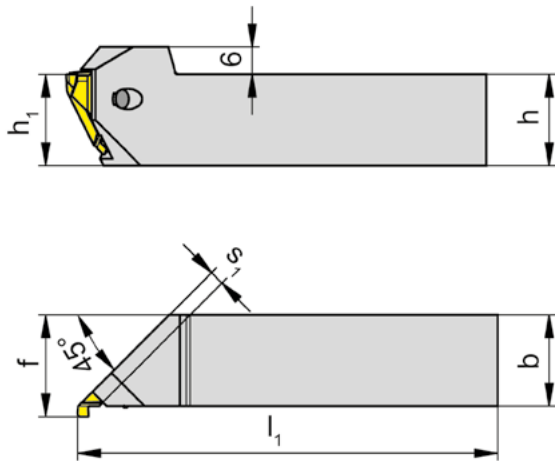
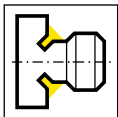
For the (w) dimension, see inserts

Dimensions in mm

U

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L357...	5.12T20P	T20PQ	6.5 Nm



R = right hand version shown L = left hand version

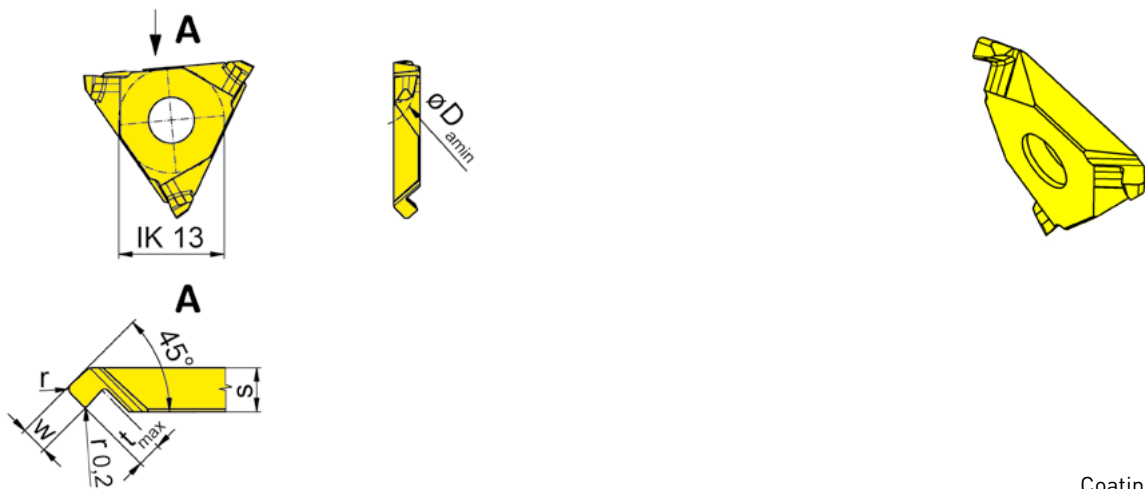
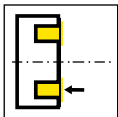
Part number	h	b	l ₁	h ₁	f	s ₁	HWS
R356.1616.45.03	16	16	125	16	18.3	3.25	31503L
R356.2020.45.03	20	20	125	20	22.3	3.25	31503L
R356.2525.45.03	25	25	150	25	27.3	3.25	31503L
L356.1616.45.03	16	16	125	16	18.3	3.25	31503R
L356.2020.45.03	20	20	125	20	22.3	3.25	31503R
L356.2525.45.03	25	25	150	25	27.3	3.25	31503R

Dimensions in mm

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Torque Value
R/L356...	5F.08T20P	T20PQ	5 Nm



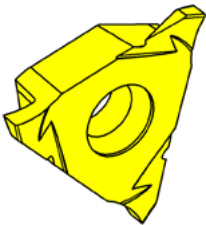
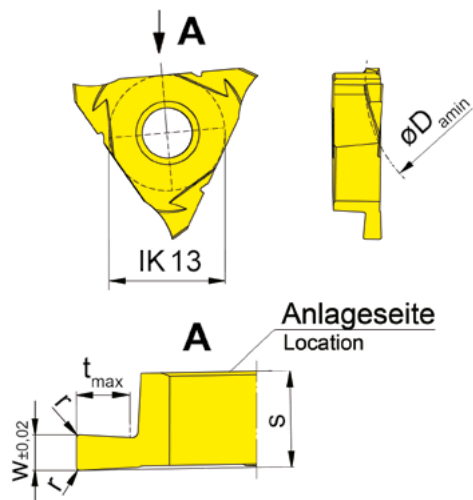
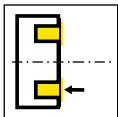


L = left hand version shown

R = right hand version

Coating grades
▲ In stock Δ 2 weeks

Part number	w	r	t _{max}	D _{a min}	s	HIS		TH35	TN35
RA315.0815.45.04L	1.5	0.4	1.6	8	3.25	31503R	▲	▲	▲
RA315.1220.45.05L	2	0.5	1.8	12	3.25	31503R	▲	▲	▲
RA315.2024.45.06L	2.4	0.6	2	20	3.25	31503R	Δ	▲	▲
LA315.0815.45.04R	1.5	0.4	1.6	8	3.25	31503L	▲	▲	▲
LA315.1220.45.05R	2	0.5	1.8	12	3.25	31503L	▲	▲	▲
LA315.2024.45.06R	2.4	0.6	2	20	3.25	31503L	▲	▲	▲
The undercut must be placed BEFORE the axial machining!							P	●	●
Dimensions in mm							M	●	-
							K	-	●
							N	-	-
							S	-	-
							H	-	-



R = right hand version shown

L = left hand version

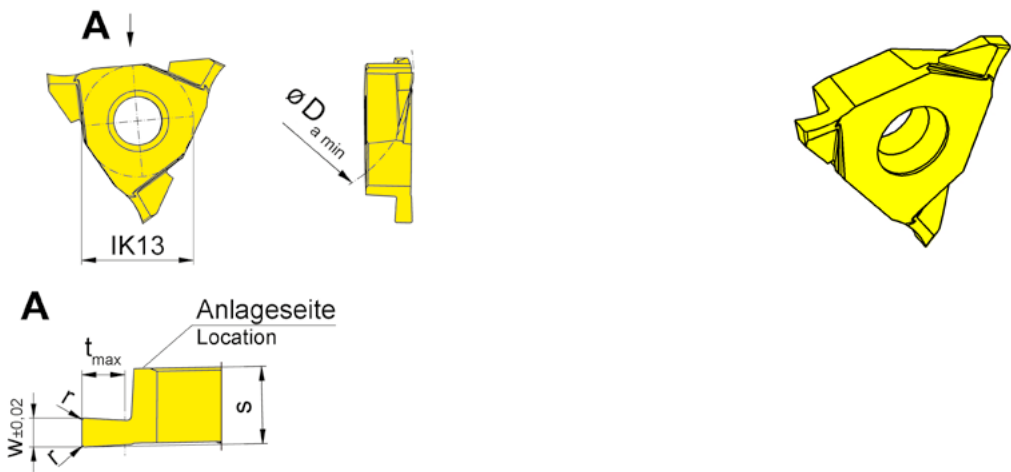
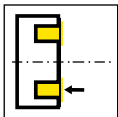
Coating grades

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	D _{a min}	s	HIS	TH35	
RA315.3030.02L	3	0.2	3	30	5.4	31505R	▲	
LA315.3030.02L	3	0.2	3	30	5.4	31505L	▲	
Dimensions in mm							P	●
							M	●
							K	-
							N	-
							S	-
							H	-





Coating grades

R = right hand version shown

▲ In stock

Δ 2 weeks

Part number	w	r	t _{max}	D _{a min}	s	HIS	TH35
RA315.2015.02R	1.5	0.2	2	20	5.4	31505R	Δ
RA315.3020.02R	2	0.2	3	30	5.4	31505R	▲
RA315.3030.02R	3	0.2	3	30	5.4	31505R	Δ
LA315.2015.02R	1.5	0.2	2	20	5.4	31505L	▲
LA315.3020.02R	2	0.2	3	30	5.4	31505L	▲
LA315.3030.02R	3	0.2	3	30	5.4	31505L	▲
Dimensions in mm							P ●
							M ●
							K -
							N -
							S -
							H -



Section	Page
Torque Values	708-712
Technical Instructions	713-715
Coolant Options	716-717
Geometries and Feed Rates	718-725
Coating Guide	726-727
Cutting Data	728-733
Torque Wrenches and Drivers	734-739

Torque values are now laser-etched on the holder body for quick reference.

Holders made before 2025 did not include torque markings.

The use of lubricant, such as copper paste or similar products, is not recommended due to altering the torque required to fully secure the screw/clamping mechanism.

System	Screw	M _d Nm	Wrench	Driver Size
208	4.08.913	3.0	SW3DIN911	DSW30K
210	218.3	7.0	SW6DIN911	DSW60K
211	6.19	3.0	SW3DIN911	DSW30K
213	218.3	7.0	SW6DIN911	DSW60K
213...09	5.32T15P	5.0	T15PQ	DT15PK
213...IK	6.14.912	6.0	SW5DIN911	DSW50K
214	218.3	7.0	SW6DIN911	DSW60K
214...09	5.32T15P	5.0	T15PQ	DT15PK
218	218.3	7.0	SW6DIN911	DSW60K
219	218.3	7.0	SW6DIN911	DSW60K
221	6.20.70P	5.0	T20PQ	DT20PK
225	218.3	7.0	SW6DIN911	DSW60K
226	218.3	7.0	SW6DIN911	DSW60K
226.2608...	4.15T15P	5.0	T15PQ	DT15PQ
226.3208...	4.15T15P	5.0	T15PQ	DT15PQ
228	6.20.70P	5.0	T20PQ	DT20PK/DT20PQ
230	5.14	2.5	SW2.5DIN911	DSW25K
232	4.08.913	3.0	SW2.5DIN911	DSW25K
233	5.14	2.5	SW2.5DIN911	DSW25K
234	5.14	2.5	SW2.5DIN911	DSW25K
235	5.14	2.5	SW2.5DIN911	DSW25K
240	5.14	2.5	SW2.5DIN911	DSW25K
245	51.27.984P	4.0	T15PQ	DT15PK
248	5.14	2.5	SW2.5DIN911	DSW25K
250	5.14	2.5	SW2.5DIN911	DSW25K
253	5.14	2.5	SW2.5DIN911	DSW25K
254	5.14	2.5	SW2.5DIN911	DSW25K
255	5.14	2.5	SW2.5DIN911	DSW25K
309	6.25	4.5	SW3DIN911	DSW30K
330	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
333	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
356...3/...5	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
356...45.03	5F.08T20P	5.0	T20PQ	DT20PK/DT20PQ

System	Screw	M _d Nm	Wrench	Driver Size
356...6/...7/...10/...2.13	5.15T20P	6.5	T20PQ	DT20PK/DT20PQ
356...2.13.IK/...2.15.IK	5.15T20P	6.5	T20PQ	DT20PK/DT20PQ
357	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
360	6.25	4.5	SW3DIN911	DSW30K
361	030.0422.T10P	3.0	T10PL	DT10PK
368	4.15T15P	4.0	T15PQ	DT15PK
368...10.01	030.0422.T10	4.0	T10PL	DT10PK
369	6.25	4.5	SW3DIN911	DSW30K
390	6.25	4.5	SW3DIN911	DSW30K
391.1212...	030.0422.T10P	3.0	T10PL	DT10PK
391.1616...	5.32.3T15P	5.0	T15PQ	DT15PK
391.2...	6.25	4.5	SW3DIN911	DSW30K
AH25A.12...02/...03	5.14T20P	2.5/3.0	T20PQ	DT20PK/DT20PQ
AH25A...02/...03	5.13T20P	3.5/3.0	T20PQ	DT20PK/DT20PQ
AK25A...02.IK/03.IK/04.IK	5.13T20P	2.5/3.0/3.5	T20PQ	DT20PK/DT20PQ
B105	6.075T15P	5.0	T15PQ	DT15PK
BU105	6.075T15P	5.0	T15PQ	DT15PK
B109	6.075T15P	5.0	T15PQ	DT15PK
B110	6.075T15P	5.0	T15PQ	DT15PK
B114	4.12T15EP	5.0	T15PQ	DT15PK
BA114	4.12T15EP	5.0	T15PQ	DT15PK
B209	3.5.12T10EP	2.5	T10PL	DT10PK
B216.0020.1.2...IK	3.5.12T10EP	3.0	T10PL	DT10PK
B229	030.0518.T20P	7.0	T20PQ	DT20PK/DT20PQ
B216...IK	5.13T20EP	6.0	T20PQ	DT20PK/DT20PQ
B223	5.11T15P	3.0	T15PL	DT15PK
B223...K2	4.09T15P	3.0	T15PL	DT15PK
B224.00...	5.13T20P	6.5	T20PQ	DT20PK/DT20PQ
B224.45... B224.60...	6.14T25P	7.0	T25PQ	DT25PK/DT25PQ
BK224	5.13T20EP	6.5	T20PQ	DT20PK/DT20PQ
BK229	5.13T20EP	6.0	T20PQ	DT20PK/DT20PQ
E223	5.11T15P	3.0	T15PL	DT15PK
H32T...IK	030.2507.T7P	1.5	T7PL	DT7PK
H25A	5.14T20P	3.0	T20PQ	DT20PK/DT20PQ
H25A.12...	5.13T20P	3.0	T20PQ	DT20PK/DT20PQ
H34T...00.IK	30.4093.T15P	3.0	T15PQ	DT15PK
H34T...10.IK	030.4093.T15P	3.0	T15PQ	DT15PK

System	Screw	M _d Nm	Wrench	Driver Size
H34T...20.IK	030.4010.T15P	5.0	T15PQ	DT15PK
H34T...30.IK	030.5012.T15P	6.0	T15PQ	DT15PK
H34T...40.IK	030.5012.T20P	6.0	T20PQ	DT20PK/DT20PQ
H64T...10.IK	030.4010.T15P	4.0	T15PQ	DT15PK
H64T...20.IK	030.4010.T15P	5.0	T15PQ	DT15PK
H105	6.075T15P	5.0	T15PQ	DT15PK
H100...01/...11/...21 + IK H100...02/...12/...22 + IK H100...5.23.IK H100...71/...72 H100...71R/L/...72R/L	4.15T15P	5.0	T15PQ	DT15PK
H100...03/...13/...23 H100...04/...14/...24 H100...15 H100...1.23.IK H100...3.22.IK H100.2020.22.IK	5.17T20P	6.5	T20PQ	DT20PK/DT20PQ
H100...04.IK H100...23.IK/...24.IK H100...73.IK/...74.IK	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
H100...83/...84	030.505P.0718	5.0	T15PQ	DT15PK
H100..83R/L/N/.84R/L/N	030.505P.0660	5.0	T15PQ	DT15PK
H100...93/...93R/L	030.0413.T15P	3.0	T15PQ	DT15PK
H100.2020.3.0.. H100.2525.3.0.. H100.3225.3.0../...38 H100.3225.4.0../...4.1.. H100...08/...10/...12	030.6075.T20P	5.0	T20PQ	DT20PK
H100.3232...	030.0625.T25P	7.0	T25PQ	DT25PK/DT25PQ
H100.52.. H100.2608.2...IK	5.13T20P	5.0	T20PQ	DT20PK/DT20PQ
H101	3.5.12T10EP	5.0	T10PL	DT10PK
H117...10/...12	4.09T15P	5.0	T15PQ	DT15PK
H117.1010.10	030.400P0227	5.0	T15PQ	DT15PK
H117...16/...32/...45 H117.14...	5.12T20P	6.0	T20PQ	DT20PK/DT20PQ
H117...20/...26	6.17T20P	7.0	T20PQ	DT20PK/DT20PQ
H223	5.11T15P	3.0	T15PL	DT15PK
H223.2608.../.3208...	4.15T15P	5.0	T15PL	DT15PK
H224	6.23T25P	6.0	T25PQ	DT25PK/DT25PQ
H224.1212.81	6.17T25P	5.0	T25PQ	DT25PK/DT25PQ
H224.1608.02/.23/.24 H224.2608.81/.82/.83	4.15T15P	5.0	T15PQ	DT15PK
H224.2608.01/.02 H224.3208.01/.02/.03	4.20T15P	4.3	T15PL	DT15PK

Torque Values



System	Screw	M _d Nm	Wrench	Driver Size
H224.2608.03	4.20T15P	4.3	T15PQ	DT15PK
H224.3208.93	030.0413T15P	3.0	T15PQ	DT15PK
H224..61/..62/..63/..64+IK	4.12.T15EP	5.0	T15PL	DT15PK
H224.1212.20...	4.12.T15EP	5.0	T15PQ	DT15PK
H224...65/...66/...83R	5.13.T20EP	6.5	T20PQ	DT20PK/DT20PQ
H224...A...IK	6.23T25P	6.0	T25PQ	DT25PK/DT25PQ
H229	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
H259	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
H262	030.2557.T8P	1.0	T8PL	DT8PK
H264	3.5.12T10EP	3.0	T10PL	DT10PK
H274...04/...04.E	030.3509.T15P	3.0	T15PQ	DT15PK
H274...07	030.3513.T15P	3.0	T15PQ	DT15PK
H274...SF.04/...SF.S4	030.350P.0852	3.0	T15PQ	DT15PK
H316	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
HC105	6.075T15P	5.5	T15PQ	DT15PK
HC114	4.12T15EP	5.0	T15PQ	DT15PK
HC316	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
IB25A.20...IK	5.13T20EP	2.5/3.0/3.5	T20PQ	DT20PK/DT20PQ
IB25A.20.5065.03.IK	5.17T20P	2.5/3.0/3.5	T20PQ	DT20PK/DT20PQ
IB25A.20.6580.04.IK	5.13T20P	2.5/3.0/3.5	T20PQ	DT20PK/DT20PQ
K25A	5.13T20P	2.5/3.0/3.5	T20PQ	DT20PK/DT20PQ
KT274 KTC274	030.3509.T15P	3.0	T15PQ	DT15PK
L368	4.18T15EP	4.0	T15PQ	DT15PK
LA210	218.3	7.0	SW6.911	DSW60K
LA226	218.3	7.0	SW6.911	DSW60K
LAK220	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
LAK224	5.13T20P	6.0	T20PQ	DT20PK/DT20PQ
LIK220	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
LIK224	5.13T20P	6.0	T20PQ	DT20PK/DT20PQ
R76	030.3509.T15P	5.0	T15PQ	DT15PK
RA210	218.3	7.0	SW6.911	DSW60K
RA226	218.3	7.0	SW6.911	DSW60K
RAK220	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
RAK224	5.13T20P	6.0	T20PQ	DT20PK/DT20PQ
RIK220	6.23T25P	7.0	T25PQ	DT25PK/DT25PQ
RHC274	030.3509.T15P	5.0	T15PQ	DT15PK
RIK224	5.13T20P	6.0	T20PQ	DT20PK/DT20PQ

V

System	Screw	M_d Nm	Wrench	Driver Size
SB105	6.075T15P	5.0	T15PQ	DT15PQ
SB110	6.075T15P	5.0	T15PQ	DT15PQ
SH117...08	030.3509.T15P	3.5	T15PQ	DT15PK
SH117...10/...12	4.09T15P	5.0	T15PQ	DT15PK
SH117...16	5.12T20P	6.5	T20PQ	DT20PK/DT20PQ
SHM117...08	030.3509.T15P	3.5	T15PQ	DT15PK
VDI	6.075T15P	5.0	T15PQ	DT15PK

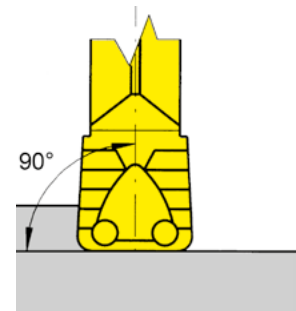
Side Turning:

HORN grooving tools ensure precise profile and angle accuracy, even when machining with one-sided cutting forces.

While cutting-edge deflection can be beneficial in some turning operations, it is not suitable for precision grooving applications.

Tool Setup:

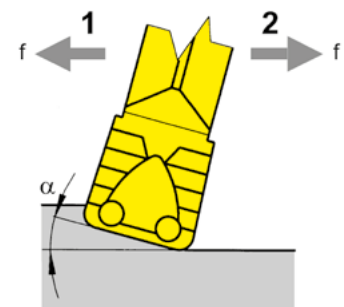
Always align the cutting tool perpendicular to the workpiece axis.



Incorrect Alignment:

Feed directions 1 can cause vibration. This tendency increases when machining rigid or securely clamped workpieces.

Feed direction 2 is ideal for turning and has no negative effect on operation.



Grooving tools are not a direct replacement for turning tools with ISO indexable inserts. However, in certain operations, such as roughing out contours, grooving tools can significantly reduce tool-change time and overall cycle time.

Cutting Depth a_p :

For side turning, the cutting depth depends on the insert width, the workpiece material, and the rigidity of the workpiece setup. The maximum cutting depth is limited by the length of the cutting edge.

Rule of thumb:

$$a_{p \max} = w \times 0.7 \text{ or max } .118" / 3.0 \text{ mm}$$

$$a_{p \min} = \text{corner radius (r)}$$

The minimum cutting depth corresponds to the corner radius of the insert. Cutting below the corner radius can result in poor chip formation and unfavorable cutting conditions.

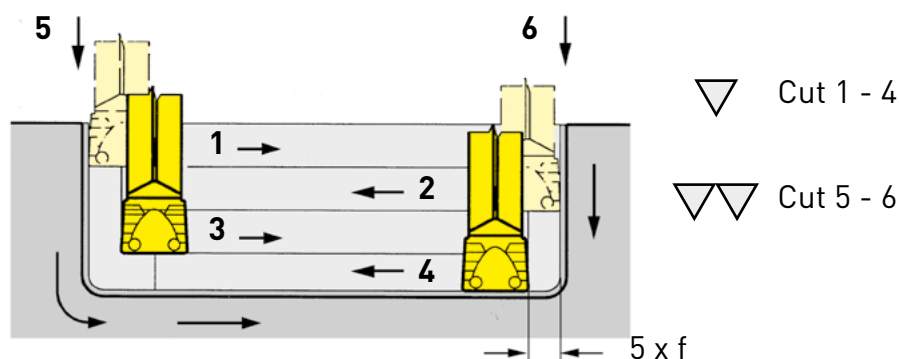
Maximum Feedrate $f_{\max}$:

Rule of thumb: $f_{\max} = w \times 0.1$

Side Turning Between Shoulders:

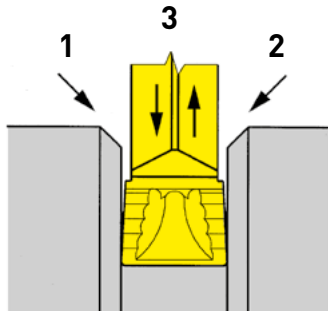
When side turning near a shoulder, always begin the cut at the shoulder and machine away from it. Cutting toward the shoulder can interfere with chip evacuation and may cause chip breakage.

For recessing or grooving operations, follow the recommended cutting sequence shown. Cuts 2 and subsequent passes should maintain a distance of $5 \times f$ from the shoulder. This cutting width helps prevent chips from becoming trapped and directs the chip toward the insert.

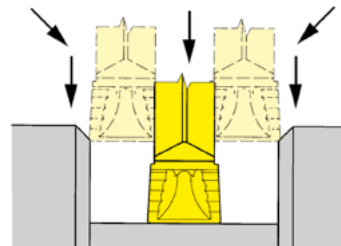


Chamfering Grooves with Standard Inserts

Groove Width Equal to Insert



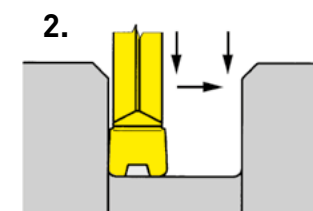
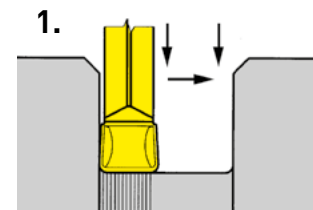
Groove Wider Than Insert



Finishing Sealing Grooves

Finishing sealing grooves often requires both grooving and turning operations to achieve very high surface-quality requirements.

Due to the cutting sequence, different tool marks can occur during sealing-groove machining. These marks are undesirable in sealing applications. The modified S224...NC...D2 insert, shown in diagram 2, provides a suitable solution for producing improved surface finish quality.

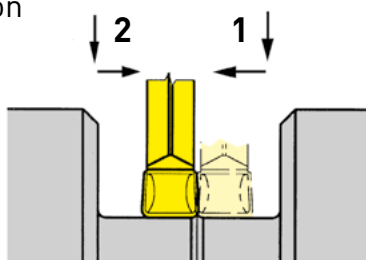


Preventing Swarf Ring Formation

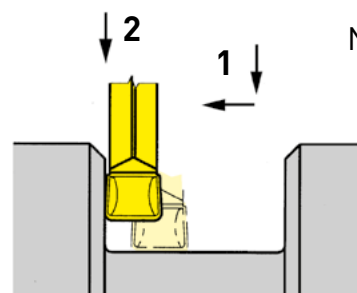
Swarf ring formation can be avoided by preventing overlapping turning operations.

Select the machining sequence so the turning pass crosses the smaller diameter in one continuous cut. Well-defined cutting edges and small corner radii help reduce the tendency for ring formation.

Ring creation



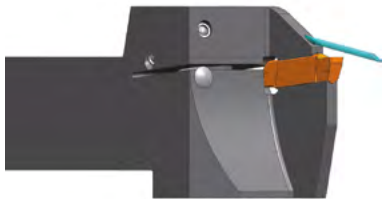
No ring creation



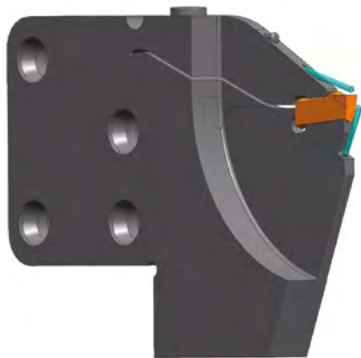
Coolant Delivery Options



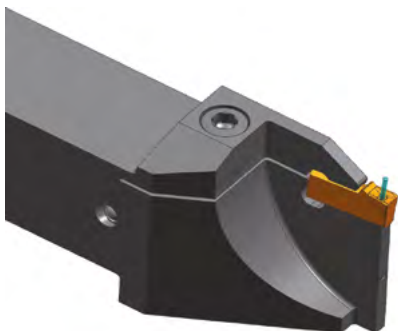
Side Delivery



Clamping Finger



Dual Delivery



Through the Insert

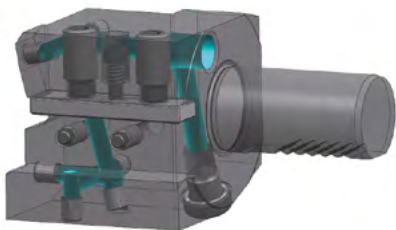
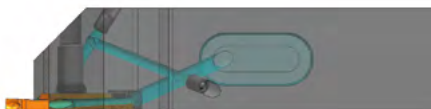
Coolant Supply Options



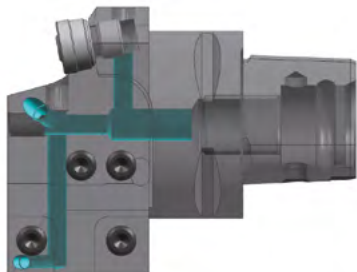
External Supply



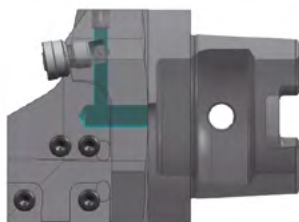
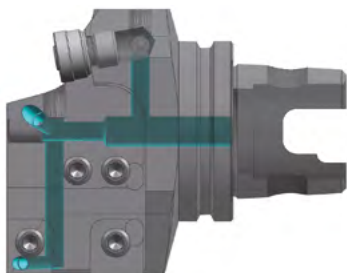
Internal Slotted Hole

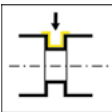
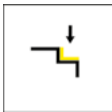
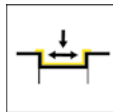
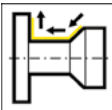
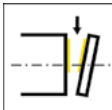
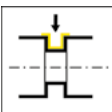
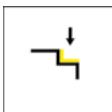
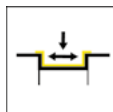
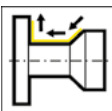
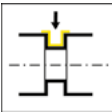
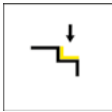
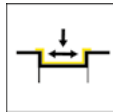
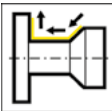
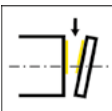
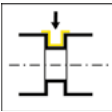
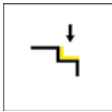
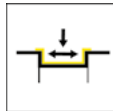
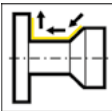


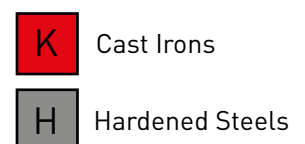
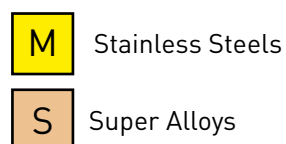
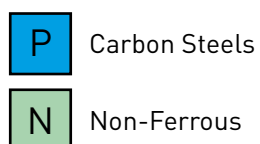
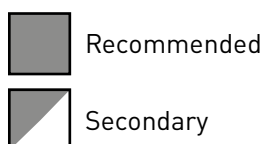
Turret Connection

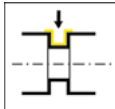
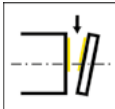
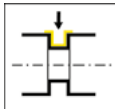
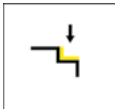
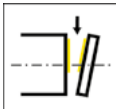
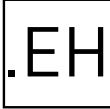
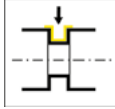
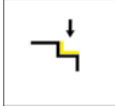
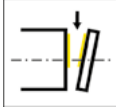
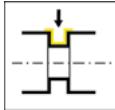
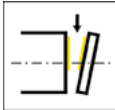
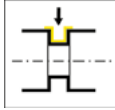
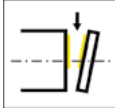


Backend Connection



Geometry/Chipbreaker	Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
.3 	P M K N S H	↓ .0059-.0098 in/rev 0.15-0.25 mm/rev ↔ .0059-.0157 in/rev 0.15-0.40 mm/rev	    
.5 	P M K N S H	↓ .0039-.0177 in/rev 0.10-0.45 mm/rev ↔ .0059-.0236 in/rev 0.15-0.60 mm/rev	   
.A 	P M K N S H	↓ .0019-.0118 in/rev 0.05-0.30 mm/rev ↔ .0039-.0118 in/rev 0.10-0.30 mm/rev	   
.C 	P M K N S H	↓ .0008-.0039 in/rev 0.02-0.10 mm/rev	
.D 	P M K N S H	↓ .0011-.0059 in/rev 0.03-0.15 mm/rev ↔ .0019-.0078 in/rev 0.05-0.20 mm/rev	   



Geometry/Chipbreaker		Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
		P M K N S H	↓ .0031-.0011 in/rev 0.08-0.30 mm/rev	 
		P M K N S H	↓ .0039-.0177 in/rev 0.10-0.45 mm/rev	  
		P M K N S H	↓ .0098-.0157 in/rev 0.25-0.40 mm/rev	  
		P M K N S H	↓ .0011-.0059 in/rev 0.03-0.15 mm/rev	 
		P M K N S H	↓ .0011-.0059 in/rev 0.03-0.15 mm/rev	 



Recommended



Carbon Steels



Stainless Steels



Cast Irons



Secondary



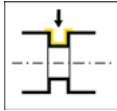
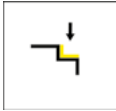
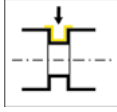
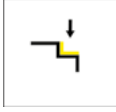
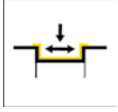
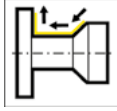
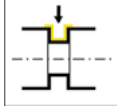
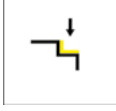
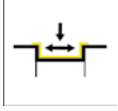
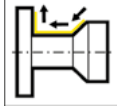
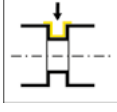
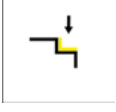
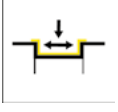
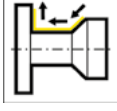
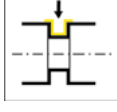
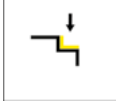
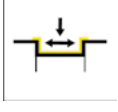
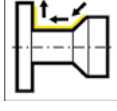
Non-Ferrous

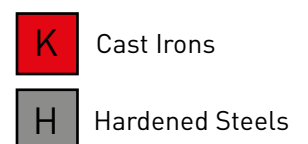
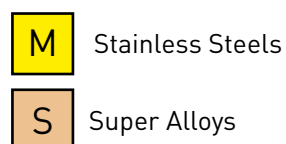
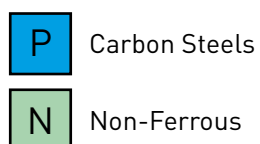
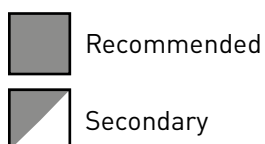


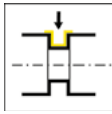
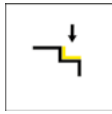
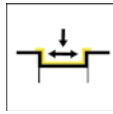
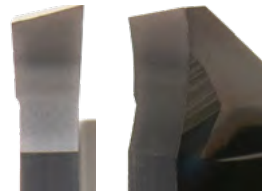
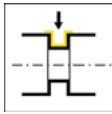
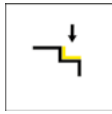
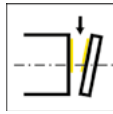
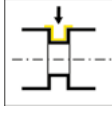
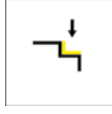
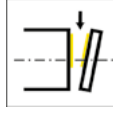
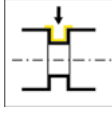
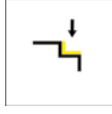
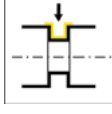
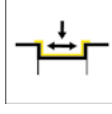
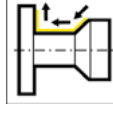
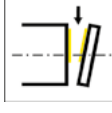
Super Alloys



Hardened Steels

Geometry/Chipbreaker	Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
.H 	P M K N S H	↓ .0059-.0098 in/rev 0.15-0.25 mm/rev ↔ .0039-.0098 in/rev 0.10-0.25 mm/rev	 
.K 	P M K N S H	↓ .0019-.0098 in/rev 0.05-0.25 mm/rev ↔ .0019-.0098 in/rev 0.05-0.25 mm/rev	   
.KF 	P M K N S H	↓ .0039-.0177 in/rev 0.10-0.45 mm/rev ↔ .0019-.0098 in/rev 0.05-0.25 mm/rev	   
.KR 	P M K N S H	↓ .0098-.0196 in/rev 0.25-0.5 mm/rev ↔ .0098-.0196 in/rev 0.25-0.5 mm/rev	   
.L 	P M K N S H	↓ .0039-.0086 in/rev 0.10-0.22 mm/rev ↔ .0019-.0078 in/rev 0.05-0.20 mm/rev	   



Geometry/Chipbreaker	Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
.ZG 	P M K N S H	↓ ↔ .0039-.0086 in/rev 0.10-0.22 mm/rev .0019-.0078 in/rev 0.05-0.20 mm/rev	   
.10 	P M K N S H	↓ .0019-.0059 in/rev 0.05-0.15 mm/rev	  
.20 	P M K N S H	↓ .0027-.0098 in/rev 0.07-0.25 mm/rev	  
.HR 	P M K N S H	↓ .0078-.0118 in/rev 0.20-0.30 mm/rev	 
.N 	P M K N S H	↓ ↔ .0019-.0098 in/rev 0.05-0.25 mm/rev .0019-.0098 in/rev 0.05-0.25 mm/rev	   



Recommended



Carbon Steels



Stainless Steels



Cast Irons



Secondary



Non-Ferrous



Super Alloys



Hardened Steels

Geometry/Chipbreaker		Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
.00		P M K N S H	↓ .0008-.0047 in/rev 0.02-0.12 mm/rev	
.1A		P M K N S H	↓ .0011-.0047 in/rev 0.03-0.12 mm/rev	
.M0		P M K N S H	↓ ↔ .0008-.0039 in/rev 0.02-0.10 mm/rev .0008-.0059 in/rev 0.02-0.15 mm/rev	
.M		P M K N S H	↓ .0008-.0047 in/rev 0.02-0.12 mm/rev	
.P		P M K N S H	↓ ↔ .0008-.0031 in/rev 0.02-0.08 mm/rev .0008-.0015 in/rev 0.02-0.04 mm/rev	

	Recommended		Carbon Steels		Stainless Steels		Cast Irons
	Secondary		Non-Ferrous		Super Alloys		Hardened Steels

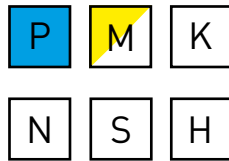
Geometry/Chipbreaker

Material

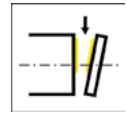
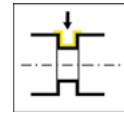
Feed Rate (in/rev), (mm/rev)
Direction of cut

Operation

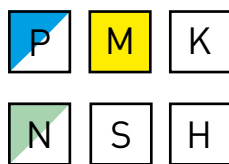
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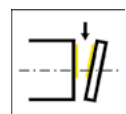
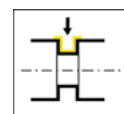
.0016-.0059 in/rev
0.04-0.15 mm/rev



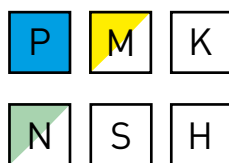
.3V



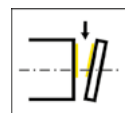
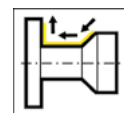
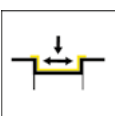
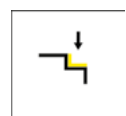
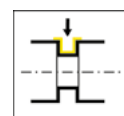
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0.05-0.20 mm/rev



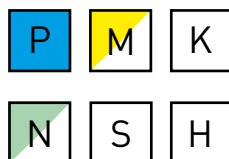
.FL



.0011-.0059 in/rev
0.03-0.15 mm/rev



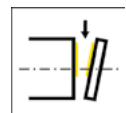
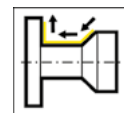
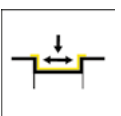
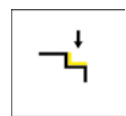
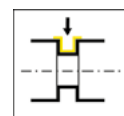
.DL



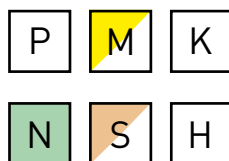
.0019-.0059 in/rev
0.05-0.15 mm/rev



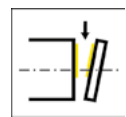
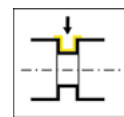
.0019-.0078 in/rev
0.05-0.20 mm/rev



.WA



.0027-.0098 in/rev
0.07-0.25 mm/rev



Recommended



Carbon Steels



Stainless Steels



Cast Irons



Secondary



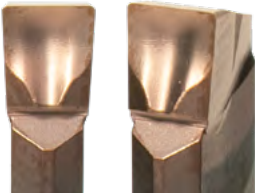
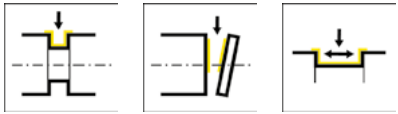
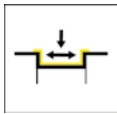
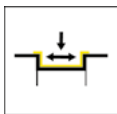
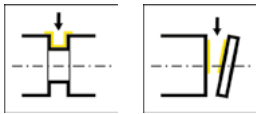
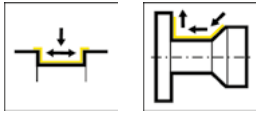
Non-Ferrous

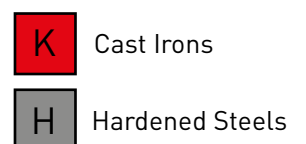
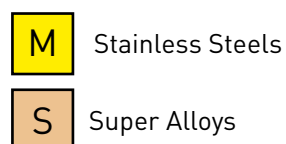
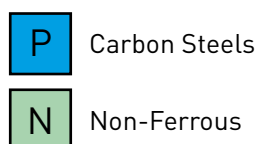
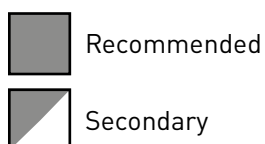


Super Alloys



Hardened Steels

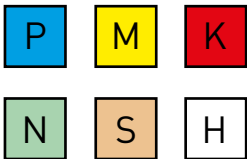
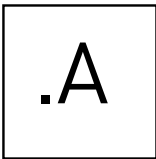
Geometry/Chipbreaker	Material	Feed Rate (in/rev), (mm/rev) Direction of cut	Operation
.WT 	P M K N S H	↓ .0024-.003 in/rev 0.06-0.08 mm/rev ↔ .0024-.003 in/rev 0.06-0.08 mm/rev	
.NC 	P M K N S H	↓ .0008-.0039 in/rev 0.02-0.10 mm/rev ↔ .0008-.0059 in/rev 0.02-0.15 mm/rev	
.FB 	P M K N S H	↓ .0008-.0039 in/rev 0.02-0.10 mm/rev ↔ .00006-.0027 in/rev 0.0015-0.07 mm/rev	
.S 	P M K N S H	↓ .0008-.003 in/rev 0.02-0.08 mm/rev	
.PT 	P M K N S H	↔ .0019-.0078 in/rev 0.05-0.2 mm/rev	



Geometry

Material

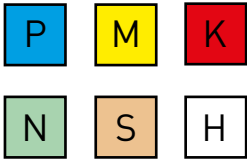
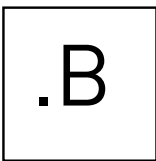
Depth of Cut



Recommended for: Broaching units

ap = .0008 - .0059 in

ap = 0.02 - 0.15 mm



Recommended for: Conventional broaching

ap = .0008 - .0059 in

ap = 0.02 - 0.15 mm

Coating	Appearance	Composition	Recommendation	Application
IG3_		TiAlSiN	Best: P M K Secondary: N S	Groove finishing at high cutting speeds, in addition to dry machining
IG6_		TiAlSiN	Best: P M K Secondary: S	Groove roughing and finishing at high cutting speeds, in addition to dry machining
AS4_ AS6_		TiAlN	Best: P M Secondary: K	Groove finishing at medium cutting speeds, in addition to dry machining
DD2_		TiB2	Best: N	Groove roughing and finishing
TH3_		TiAlN	Best: P M Secondary: K S	Groove roughing and finishing at high cutting speeds, in addition to dry machining
EG3_		AlTiN + TiN	Best: P M Secondary: K	Finishing and parting at high cutting speeds
EG5_		AlTiN + TiN	Best: P M Secondary: K	Roughing at high cutting speeds
ES1_		AlTiN	Best: P M Secondary: N S	Finishing and superfinishing, no cutting interruptions

Coating	Appearance	Composition	Recommendation	Application
AN2_ AN4_		AlCrSiN	Best: P M Secondary: K S	Groove roughing and finishing, broaching
Ti2_		TiCn	Best: P M Secondary: N	Groove roughing and finishing at moderate cutting speeds, reduction of built-up edge
TN3_		TiN	Best: P K Secondary: N	Groove roughing and finishing at moderate cutting speeds
P20 K10 MG12		Uncoated	Best: N	

ISO Material Group	P Mild, Carbon, Alloyed, Cast, Sintered Steels	M Stainless Steels	K Grey, Spheriodal Graphite, Malleable Cast Irons	N Non-Ferrous, Al-Alloys, Cu-Alloys, Graphite	S Heat resistant, Super alloys, Titanium	H Hardened Steels
First choice	EG35/55 AlTiN + TiN	IG35 TiAlSiN	IG35 TiAlSiN	DD25 TiB2	IG65 TiAlSiN	-
Second	IG35 TiAlSiN	EG35/55 AlTiN + TiN	TH35 TiAlN	ES15 AlTiN	IG35 TiAlSiN	-
Third	TH35 TiAlN	Ti25 TiCn	TN35 TiN	MG12 Uncoated	AN45 AlCrSiN	-

Material			Material group	Hardness Brinell (HB)	Tensile Strength R _m [N/mm ²]	Example Ma- terial SAE, DIN	
P	Carbon steel	~ 0.2 % C	P1.1	125	430	1015 , CK15	
		~ 0.4% C annealed	P1.2	190	610	A515 , 19Mn6	
		~ 0.4% C quenched	P1.3	210	640	1335 , 36Mn5	
		~ 0.6% C annealed	P1.4	190	610	1055 , C55	
		~ 0.6% C quenched	P1.5	300	1000	1060 , CK60	
		Free cutting steel	P1.6	220	750	1213 , 9SMn28	
	Alloyed steel (<5%)	annealed	P2.1	180	590	52100 , 100Cr6	
		quenched	P2.2	280	960	3415 , 14NiCr10	
		quenched	P2.3	350	1250	4135 , 34CrMo4	
		quenched	P2.4	430	1450	5155 , 55Cr3	
	High alloyed steel (>5%)	annealed	P3.1	200	680	442 , X10CrAl18	
		hardened	P3.2	350	1200	D3 , X210Cr2	
	Cast steel	unalloyed	P4.1	180	590	A27 , GE200	
		alloyed	P4.2	220	750	10295 , GX40CrSi28	
	Sintered steel	soft	P5.1	220	570	P3082 , Sint-D39	
M	Stainless steel	martensitic ferritic	M1.1	200	680	410 , X16Cr13	
		austenitic	M1.2	300	1000	316Ti , X6CrNi- MoTi17-12-2	
		austenitic ferritic	M1.3	230	780	316LN , X2CrNi- Mo-N17-13-3	

Cutting Data



				MG12	=	Coating Grade						
				395-55		Cutting speed Vc (SFM) - Suggested range						
				120-16		Cutting speed Vc (m/min) - Suggested range						
	K10 MG12	TN3_ 	TI2_ 	TH3_ TF4_ AS4_ AS6_ 	ES1_ AC2_ 	EG3_ EG5_ HP6_ 	IG3_ IG6_ 	DD2_ 	SG3_ 	H20 H54 IG6T 	Coating Grades	
Carbon Steel		655-425 200-130	855-525 260-160	920-590 280-180	920-590 280-180	920-590 280-180	1115-720 340 - 220			1310-985 400 - 300		
		525-230 160-70	755-395 230 -120	820-460 250 -140	820-460 250 -140	820-460 250 -140	1050-655 320 - 200			1310-985 400 - 300		
		525-230 160-70	755-395 230 -120	820-460 250 -140	820-460 250 -140	820-460 250 -140	1050-655 320 - 200			1310-985 400 - 300		
		525-230 160-70	755-395 230 -120	820-460 250 -140	820-460 250 -140	820-460 250 -140	1050-655 320 - 200			1310-985 400 - 300		
		490-195 150-60	625-230 190 - 70	690-295 210 - 90	690-295 210 - 90	690-295 210 - 90	920-490 280 - 150			1310-985 400 - 300		
		525-230 160-70	755-395 230 - 120	820-460 250 - 140	820-460 250 - 140	820-460 250 - 140	1050-655 320 - 200			1150-820 350 - 250		
Alloyed steel (<5%)		490-260 150-80	655-260 200 - 80	720-330 220 - 100	720-330 220 - 100	720-330 220 - 100	985-590 300 - 180			1310-985 400 - 300		
		460-230 140-70	625-230 190 - 70	690-295 210 - 90	690-295 210 - 90	690-295 210 - 90	920-490 280 - 150			1310-985 400 - 300		
		425-165 130-50	560-195 170 - 60	625-260 190 - 80	625-260 190 - 80	625-260 190 - 80	820-460 250 - 140			1150-820 350 - 250		
		425-165 130-50	560-195 170 - 60	625-260 190 - 80	625-260 190 - 80	625-260 190 - 80	755-395 230 - 120			1150-820 350 - 250		
High alloyed steel (>5%)		460-195 140-60	590-195 180 - 60	655-260 200 - 80	655-260 200 - 80	655-260 200 - 80	855-460 260 - 140			820-655 250 -200		
		425-165 130-50	560-195 170 - 60	625-260 190 - 80	625-260 190 - 80	625-260 190 - 80	820-395 250 - 120			820-655 250 -200		
Cast steel		460-330 140-100	590-395 180 - 120	655-460 200 - 140	655-460 200 - 140	655-460 200 - 140	820-655 250 - 200			820-655 250 - 200		
		360-230 110-70	460-260 140 - 80	525-330 160 - 100	525-330 160 - 100	525-330 160 - 100	720-525 220 - 160			720-525 220 - 160		
Sintered steel												
Stainless steel					395-260 120 - 80	395-260 120 - 80	490-295 150-90		490-295 150-90	820-655 250 - 200		
					330-195 100 - 60	330-195 100 - 60	360-260 110-80		360-260 110-80	655-490 200 - 150		
							395-295 120-90		395-295 120-90	655-490 200 - 150		



Material			Material group	Hardness Brinell (HB)	Tensile Strength R_m [N/mm ²]	Example Material SAE, DIN	
K	Grey cast iron	low tensile strength	K1.1	180	250	A48 Class 35B , GG-25	
		high tensile strength	K1.2	250	350	A48 Class 60 , GG-40	
	Spheroidal graphite cast iron	ferritic	K2.1	160	400	A536 60-40-18 , GGG-40	
		perlitic	K2.1	260	700	A536 80-60-03 , GGG-60	
	Malleable cast iron	ferritic	K3.1	200	400	A47 Grade 35018 , GTW-45	
		perlitic	K3.2	260	700	A47 Grade 55004 , GTS-55-04	
	Ausferritic spheroidal cast iron / ADI	quenched	K4.1	260	800		
		quenched	K4.2	350	1050		
		quenched	K4.3	450	1400		
N	Al-alloys	not heat treatable	N1.1	30		5005 , AlMg1	
		heat treatable	N1.2	100	340	6082 , AlMgSi1	
	Al-cast-alloy	< 6% Si	N2.1	80	300	AA 441 , AlMgSi6	
		6-10% Si	N2.2	100	320	AA 356 , AlSi7Mg	
		10-15 % Si	N2.3	130	450	AA 413 , AlSi12	
	Copper-alloys	pure copper	N3.1	100	340	C11000 , Cu	
		brass	N3.2	90	310	C38500 , CuZn40Pb	
		lead-free brass	N3.3	110	430	C28000 , CuZn40	
		high strength	N3.4	300	1000	C67800 , CuZn25Al5-Mn4Fe3	

Cutting Data



				MG12			Coating Grade					
				395-55	=	Cutting speed Vc (SFM) - Suggested range						
				120-16	Cutting speed Vc (m/min) - Suggested range							
	K10 MG12	TN3_ 	TI2_ 	TH3_ TF4_ AS4_ AS6_ 	ES1_ AC2_ 	EG3_ EG5_ HP6_ 	IG3_ IG6_ 	DD2_ 	SG3_ 	H20 H54 IG6T	Coating Grades	
Grey cast iron	295-195	460-295		655-395	655-395	655-395	820-460		820-460			
	90- 60	140-90		200 - 120	200 - 120	200 - 120	250 -140		250 -140			
	295-195	360-295		525-395	525-395	525-395	720-490		720-490			
	90 -60	110-90		160 - 120	160 - 120	160 - 120	220 - 150		220 - 150			
Spheroidal graphite cast iron		360-260		590-425	590-425	590-425	785-525		785-525			
		110-80		180 - 130	180 - 130	180 - 130	240 - 160		240 - 160			
		360-260		525-395	525-395	525-395	655-525		655-525			
		110-80		160 - 120	160 - 120	160 - 120	200 - 160		200 - 160			
Malleable cast iron		490-295		720-395	720-395	720-395	920-590		920-590			
		150-90		220 - 120	220 - 120	220 - 120	280 - 180		280 - 180			
		425-195		625-330	625-330	625-330	820-525		820-525			
		130-60		190 - 100	190 - 100	190 - 100	250 - 160		250 - 160			
Ausferritic spheroidal cast iron / ADI		360-195		590-295	590-295	590-295						
		110-60		180 - 90	180 - 90	180 - 90						
		360-195		525-260	525-260	525-260						
		110-60		160 - 80	160 - 80	160 - 80						
Al-alloys		260-165		395-195	395-195	395-195						
		80-50		120 - 60	120 - 60	120 - 60						
	1970-1310							3280-1970		1640-1150		
	600-400							1000 - 600		500 - 350		
Al-cast- alloy	1310-655							1970-985		1150-985		
	400-200							600-300		350 - 300		
	1970-985							3280-1970		1640-1150		
	600 - 300							1000 -600		500 - 350		
Copper- alloys								1310-720				
	655-395							400 - 220				
	200 - 120							985-590				
	490-295							300 - 180				
	150 - 90							820-395				
	490-295							250 - 120				
	150 -90							655-260				
								200 - 80				

V

Material			Material group	Hardness Brinell (HB)	Tensile Strength R_m [N/mm ²]	Example Ma- terial SAE, DIN	
S	Heat resistant alloy	annealed	S1.1	200	670		
		hardened	S1.2	275	930		
	Heat resistant alloy (Ni, Co)	annealed	S2.1	250	840	Inconel 600	
		hardened	S2.2	350	1200	Inconel 713	
	Titanium	Titanium alloy α	S3.1	120	240	Grade 1-2 Ti, Ti99,7	
		Titanium alloy α - β	S3.2	360	1200	Grade 5 Ti, Ti6Al4V	
		Titanium alloy β	S3.3	410	1400	Ti-10-2-3, Ti-10V-2Fe-3Al	
H	Hardened steels	50-55 HRC	H1.1	-	-		
		55-60 HRC	H1.2	-	-		
		60-63 HRC	H1.3	-	-		
		> 63HRC	H1.4	-	-		
O	Thermoplastics		O1.1				
	Duro plaste		O1.2				
	Plastics - glass fiber reinforced	GFC	O1.3				
	Plastics - carbon fiber reinforced	CFC	O1.4				

Cutting Data



				MG12	=	Coating Grade					Coating Grades
				395-55		Cutting speed Vc (SFM) - Suggested range					
				120-16		Cutting speed Vc (m/min) - Suggested range					
	K10 MG12	TN3_	TI2_	TH3_ TF4_ AS4_ AS6_	ES1_ AC2_	EG3_ EG5_ HP6_	IG3_ IG6_	DD2_	SG3_	H20 H54 IG6T	
Heat resistant alloy	165-100 50-30						260-195 80 - 60		295-230 90-70		
	165-100 50-30						165-100 50 - 30		195-130 60-40		
Heat resistant alloy	165-100 50-30						230-165 70 - 50		260-195 80-60		
	165-100 50-30						195-130 60 - 40		230-165 70-50		
Titanium	165-100 50-30						490-360 150 - 110		525-395 160-120		
	165-100 50-30						260-195 80 - 60		295-230 90-70		
	165-100 50-30						165-150 50 - 45		195-165 60-50		
Hardened steels							195-130 60 - 40		230-165 70-50		
							165-100 50 -30		195-130 60-40		
Thermo-plastics	490-165 150 - 50										
Duro plaste	490-330 150 - 100										
Plastics - glass fiber reinforced	490-330 150 - 100										
Plastics - carbon fiber reinforced	985-490 300 - 150										

V

Standard connection for coolant supply for pipe Ø 6 mm



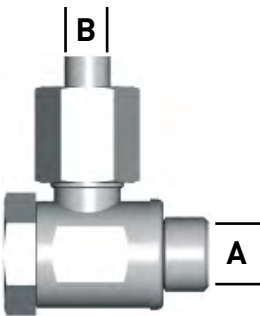
Coolant connection, straight

Part number	A	B
004.00.19	M8 x 1	ø 6 mm
004.00.14	G1/8"	ø 6 mm



Coolant connection, angled

Part number	A	B
004.00.22	M8 x 1	ø 6 mm
004.00.33	G1/8"	ø 6 mm



Coolant connection, swivel

Part number	A	B
004.00.61	M8 x 1	ø 6 mm
004.00.16	G1/8"	ø 6 mm

V

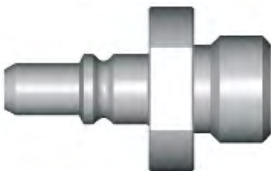
Quick-change connection for coolant supply

Quick connector

M10 x 1 - 004.00.49



Plug



M8 x 1 - 004.00.56
G1/8" - 004.00.57

Plug



Ø 6 mm - 004.00.59



D 041 VL

0.4-1 Nm



D 15 VL

1-5 Nm



D 28 VL

2-7 Nm



ED 28 VL

for
D041VL / D15VL / D28VL

Variable Torque Drivers

Torque setting is adjusted with the included wrench.
Torque value is shown in display window.

Standard: EN ISO 6798, BS EN 26789,
ASME B107.14.M.

Accuracy: $\pm 6 \%$

Adjustment Wrench

Adjusts the torque setting on the drivers shown above.



D515QL
5-14 Nm

Variable Torque Driver

Torque setting is adjusted with the included wrench.

Torque value is shown in display window.

Standard: EN ISO 6798, BS EN 26789, ASME B107.14.M.

Accuracy: $\pm 6 \%$,



ED515QL
for
D515QL

Adjustment Wrench

Adjusts the torque setting on the driver shown above.



DT6PK
DT7PK
DT8PK
DT9PK
DT10PK
DT15PK
DT20PK
DT25PK

for
D041VL / D15VL / D28VL



Plus

Driver for Torx-Plus® Screws

Controlled torque setting when used with a Wiha torque driver.



Driver for Torx Screws

DT6K

DT8K

DT15K

for
D041VL / D15VL / D28VL



Controlled torque setting when used with a Wiha torque driver.



Driver for Torx-Plus® Screws

DT15PQ

DT20PQ

DT25PQ

DT27PQ

DT30PQ

for
D515QL



Plus

Controlled torque setting when used with a Wiha torque driver.



Driver for Hex Screws

DSW15K

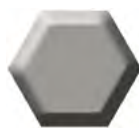
DSW20K

DSW25K

DSW30K

DSW40K

for
D041VL / D15VL / D28VL



Controlled torque setting when used with a Wiha torque driver.

DSW50K

DSW60K

for
D15QL



Universal Bitholder for C6.3 und E6.3 (1/4'') Bits

D14ZBK

for
D041VL / D15VL / D28VL

Controlled torque setting when used with a Wiha torque driver.



Universal Bitholder for C6.3 und E6.3 (1/4'') Bits

D14ZBQ

for
D515QL

Controlled torque setting when used with a Wiha torque driver.



Universal Bitholder for C6.3 und E6.3 (1/4'') Bits

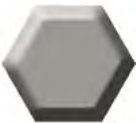
Hex bit handle.

14ZQK



Hex Key for Internal Hex Screws

SW09DIN911	SW 0.9
SW13DIN911	SW 1.3
SW15DIN911	SW 1.5
SW20DIN911	SW 2.0
SW25DIN911	SW 2.5
SW30DIN911	SW 3.0
SW35DIN911	SW 3.5
SW40DIN911	SW 4.0
SW50DIN911	SW 5.0
SW60DIN911	SW 6.0
SW70DIN911	SW 7.0
SW80DIN911	SW 8.0
SW100DIN911	SW 10.0
SW120DIN911	SW 12.0
SW140DIN911	SW 14.0



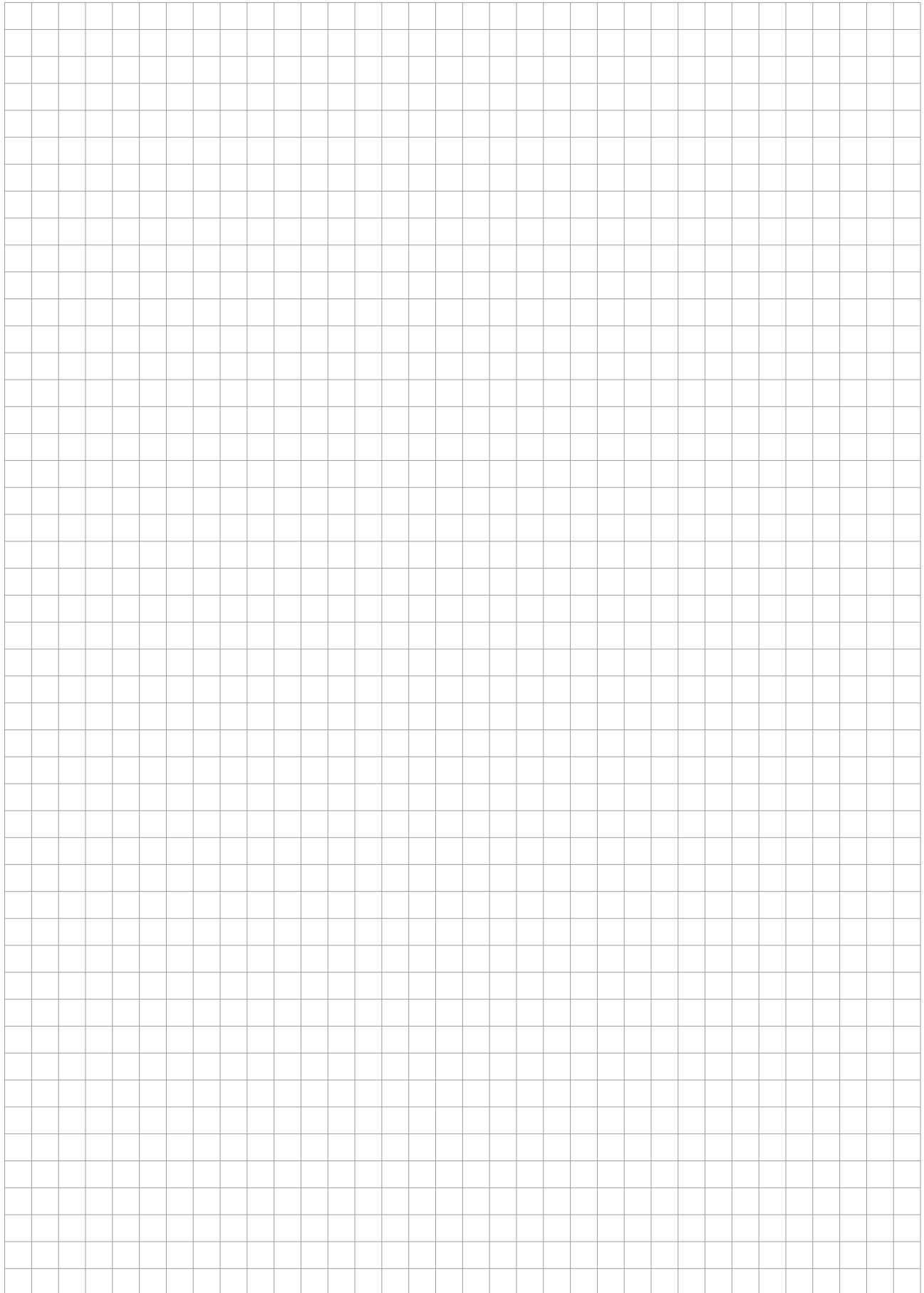
Hex Key for Torx Plus® Screws

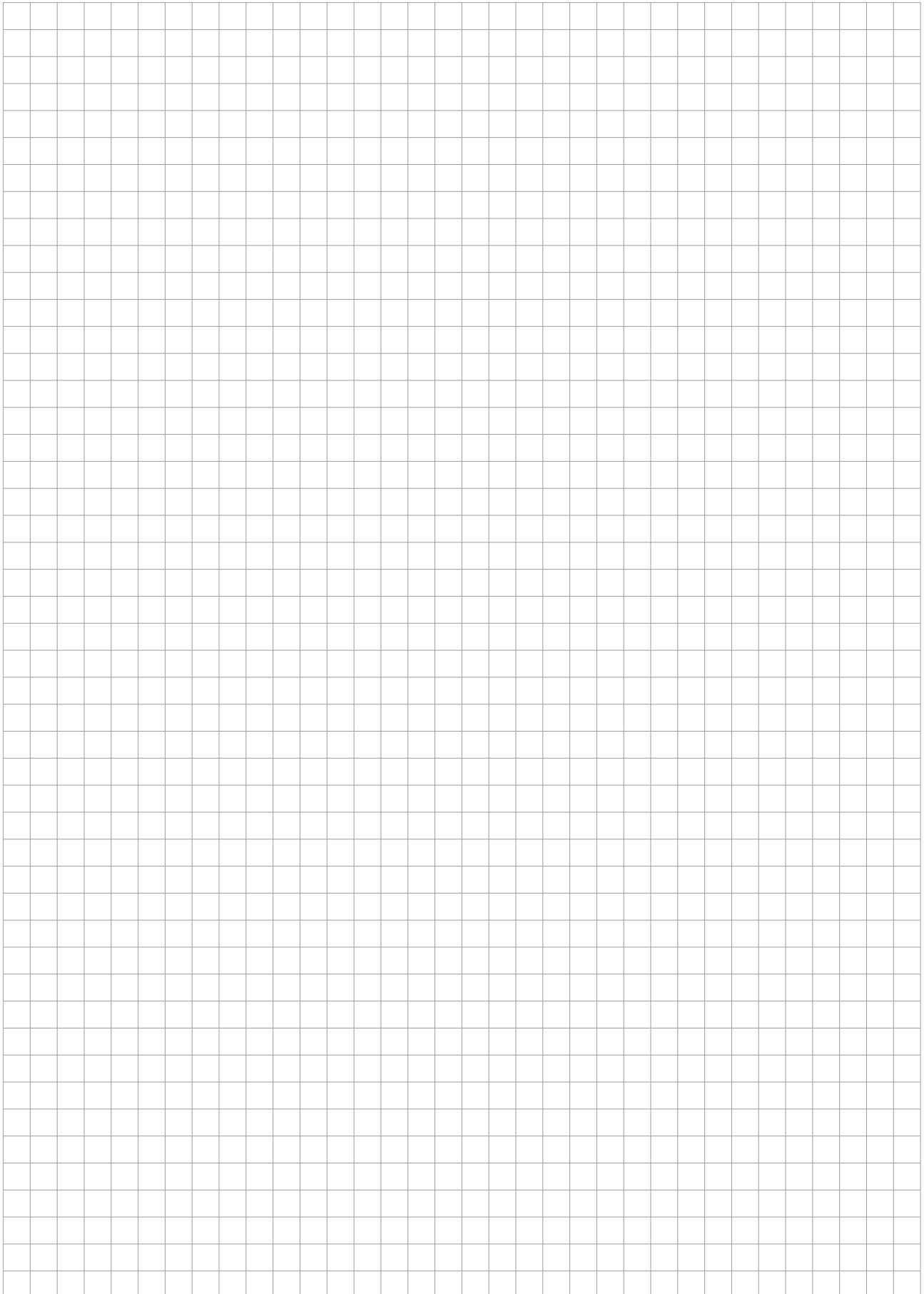
- T6PW
- T7PW
- T8PW
- T9PW
- T10PW
- T15PW
- T20PW
- T25PW
- T30PW

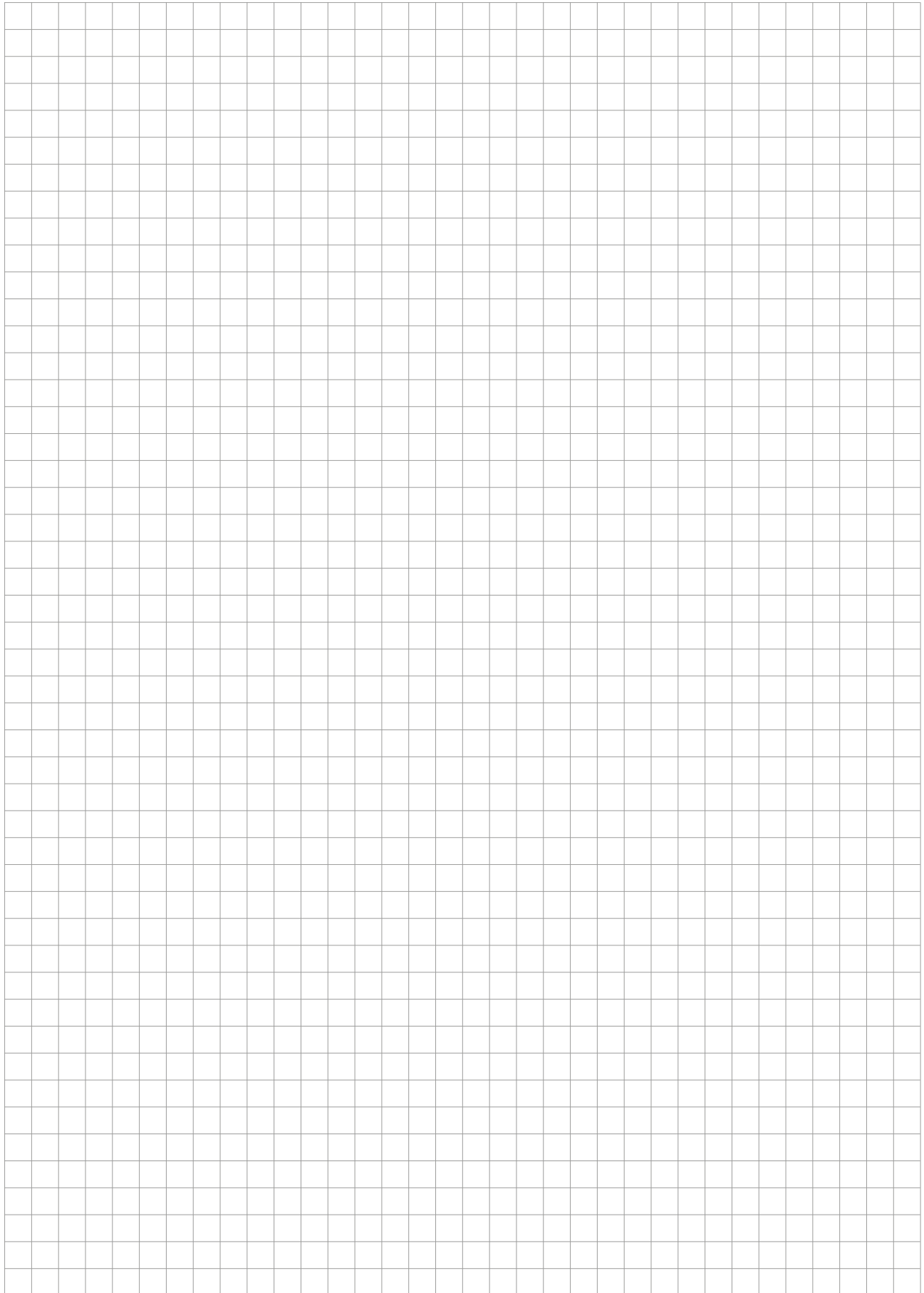


Plus

For all Torx Plus® screws.
Note: Torx Plus® does NOT fit regular Torx.









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