



INCH ADDENDUM

2024/2025

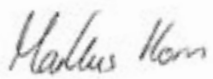


EXPLORE HORN

Erleben Sie HORN

Außergewöhnliche Ergebnisse sind immer die Verbindung aus dem optimalen Zerspanprozess und dem perfekten Werkzeug. Dafür kombiniert HORN Spitzentechnologie, Leistung und Zuverlässigkeit. Von der Einzelteil- bis zur Serienfertigung, bei Standard- oder Sonderanwendungen: Unsere Werkzeuge bieten Ihnen schnelle, wirtschaftliche und qualitativ hochwertige Lösungen. Bei der Wahl der individuellen Schnittparameter unterstützen Sie unsere Tabellen mit praxiserprobten Erfahrungswerten im jeweiligen Katalog. Nutzen Sie darüber hinaus das Fachwissen unserer Innen- und Außendienstmitarbeiter.

Nachhaltigkeit ist ein zentraler Bestandteil unserer Unternehmensphilosophie. Daher stehen bei uns Qualitätssicherung, Umweltschutz, Energieeffizienz und Sicherheit hinsichtlich unserer Produkte und unserer Produktion seit jeher im Fokus. Als leistungsfähiger und zuverlässiger Werkzeugpartner tragen wir dafür Sorge, dass Sie gemeinsam mit uns in eine innovative und wirtschaftliche Zukunft gehen.



Markus Horn
Geschäftsführer
Paul Horn GmbH

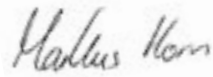


Matthias Rommel
Geschäftsführer
Paul Horn GmbH

Explore HORN

Exceptional 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.



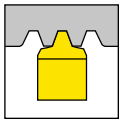
Markus Horn
CEO
Paul Horn GmbH



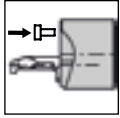
Matthias Rommel
CEO
Paul Horn GmbH

A	Supermini System 105,109,110 Boring, Grooving, Face Grooving	A
B	Mini System 106,107,108,10P,111,11P,114,116,18P Boring, Grooving, Threading, Face Grooving	B
C1	Grooving System 217,274,264,32T,34T,119,223 Boring, Grooving, Face Grooving, Parting Off, Threading	C1
C2	Grooving and Side Turning System 224,221,228 Boring, Grooving, Parting Off, Face Grooving	C2
C3	Grooving and Boring System 229,312,315,316,64T Boring, Face Grooving, Grooving, Parting Off	C3
C4	Grooving System 117,100,N105,N110,S117,220,842 Grooving, Parting Off, Broaching, Basic Holders	C4
D1	Milling System 306,308,311,313,328,325,332,335,310,380,381,382,383 Groove Milling, T Slot Milling, Slot Milling	D1
D2	Milling System DA, DAH, 406,409 Face Milling, Plunging, High Feed Milling	D2

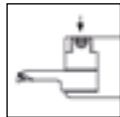
	Internal Grooving		External grooving
	Internal Grooving full radius		Grooving and Side Turning
	Internal boring and grooving chamfer		External side turning
	Internal boring		External copy turning
	Internal back turning		Parting off
	Internal pre-grooving and chamfering		Face turning
	Internal grooving with chamfer		Fine turning
	Boring and profiling		Partial profile thread
	Internal chamfering		Full profile thread
	Face grooving		Internal thread
	Internal axial grooving in front of center	BSW BSF	Whitworth pipe thread BSW/BSF
	Axial grooving with collar	NPT NPTF	National pipe thread
	Boring into solid	60°	Metric ISO thread



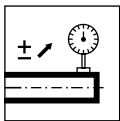
Trapezoidal thread



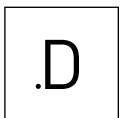
Face clamping



Lift element



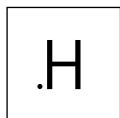
Setup



Geometry D



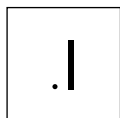
Geometry FB



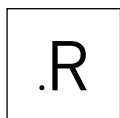
Geometry H



Geometry HV



Geometry I



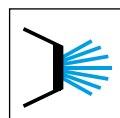
Geometry R



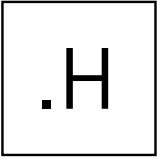
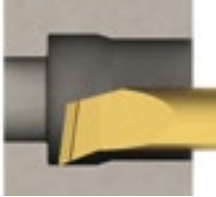
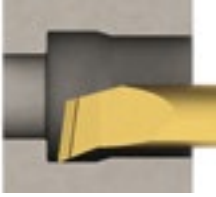
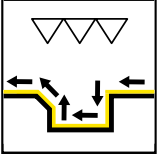
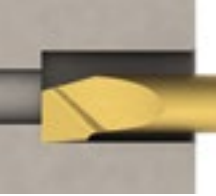
Geometry GM - Threading



Unified thread



Internal coolant

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	← f = .0016-.0024 in/rev ap = .0059-.02 inch	
	P M K N S H	← f = .002-.0039 in/rev ap = .0059-.02 inch	
	P M K N S H	↓ ↔ f = .0004-.0016 in/rev ap = .0012-.002 inch	
	P M K N S H	← f = .0002-.0006 in/rev ap = .0004-.002 inch	

Feed rate f [inch/rev]

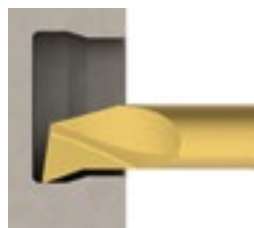
f = .0004-.0012



Grooving

f = .0008-.002

ap = .0059-.02

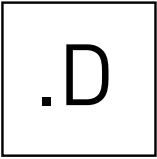
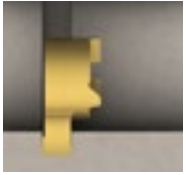
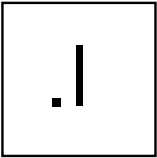
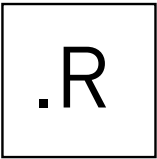


Side Turning

f = .0008-.002



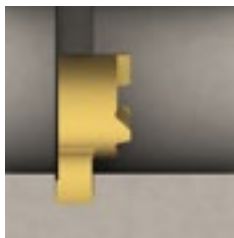
Face Grooving

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ ↔ $f = .762-.0031 \text{ in/rev}$ $ap = .0079-.0591 \text{ inch}$	
	P M K N S H	↓ ↔ $f = .0059-.002 \text{ in/rev}$ $ap = .0012-.0028 \text{ inch}$	
	P M K N S H	← $f = .002-.0059 \text{ in/rev}$ $ap = .002-.0138 \text{ inch}$	
	P M K N S H	← $f = .002-.0059 \text{ in/rev}$ $ap = .0079-.0689 \text{ inch}$	

*System dependent

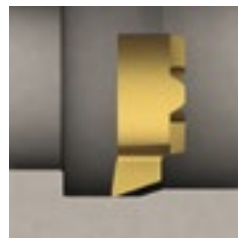
Feed rate f [inch/rev]

$f = .0004-.002$



Grooving

$f = .0012-.0039$
 $ap = .0039-.02$



Side Turning

$f = .0004-.0031$



Face Grooving

- Delivery times
 - ▲ on stock
 - Δ 4 weeks
- All dimensions are in inches unless otherwise noted.
- Further dimensions and versions are available on request.
- For torque specification of the screw, please see "Technical Instructions".
- All toolholders of the systems "Mini" with damaged seating can be repaired by HORN.

- Use for material groups
 - recommended
 - alternative recommended
 - not suitable

The HORN connection interface code - what is it needed for?

The connection interface code ensures that you will always find the appropriate tools and is shown on toolholders and inserts. If the codes match, the insert can be used in the corresponding toolholder. This also applies to our modular holder system, where the connection code indicates the interface between the holder and the cassette.

HORN- connection interface codes and possible combinations:

HIS = Insert seat
HWS = Interface workpiece side
HMS = Interface machine side

HIS	↔	HWS
HMS	↔	HWS

Example Insert

Part number	r	f	a	d	l ₂	l ₅	t _{max}	D _{min}	HIS	TH35
R109.1828.1.6	.0079	.1102	.2244	.1969	.3937	1.1024	.0157	.236	109140	Δ

Example Toolholder

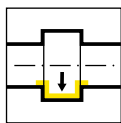
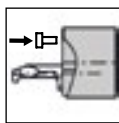
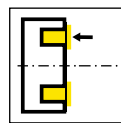
Bestellnummer Part number	d	l ₁	h	l ₄	l ₂	d ₂	HWS
B109.0012.01	.4724	2.9528	.3937	1.9685	.6299	.7874	109140

105, 109, & 110



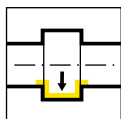
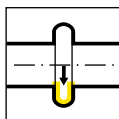
Toolholders and Inserts

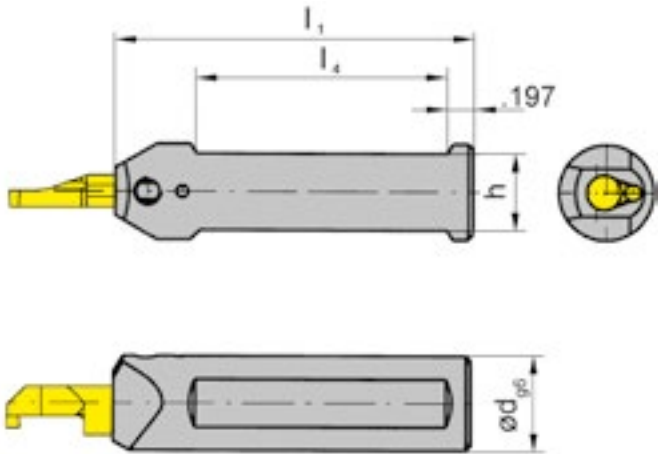
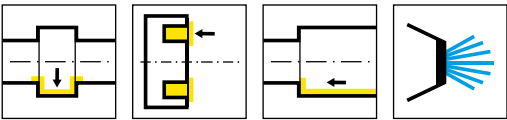
Toolholder

BU105/HCU105/BU109/
BU110Page
A3-A4, A7-A8
A27-A29Page
A5-A6Page
A25-26, A37

Insert

U105/U110

Page
A9-A25
A30-A34Page
A21
A35-A36Page
A22-A23
A35-A36



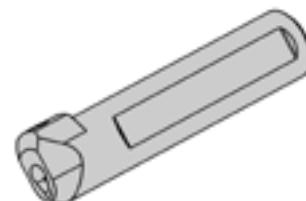
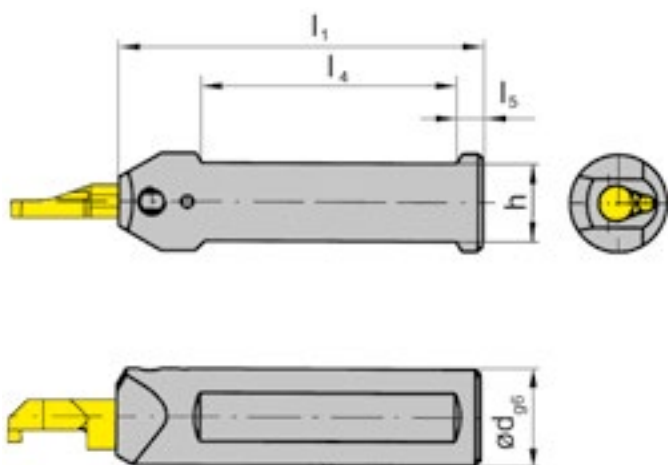
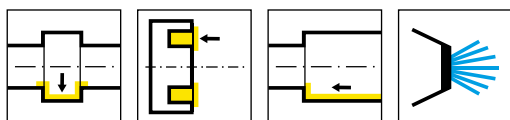
Picture = right hand cutting version

Part number	d	l ₁	h	l ₄	HWS
BU105.0500.01	.5	2.953	.433	1.969	105123 • 105124 • 105125
BU105.0625.01	.625	2.953	.546	1.969	105123 • 105124 • 105125
BU105.0750.01	.75	3.543	.671	2.756	105123 • 105124 • 105125
BU105.1000.01	1	3.543	.921	2.559	105123 • 105124 • 105125

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU105...	6.075T15P	T15PQ



R = right hand version shown

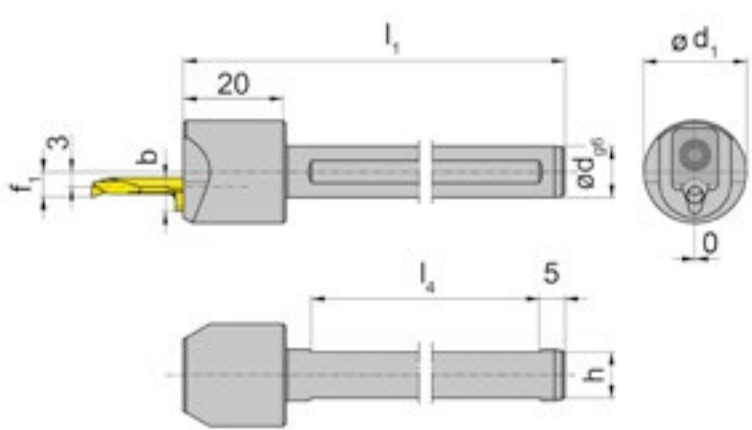
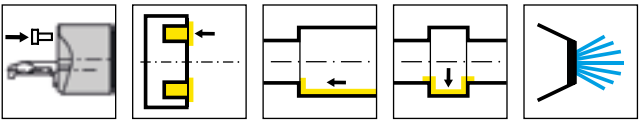
L = left hand version

Part number	d	l ₁	h	l ₄	l ₅	HWS
BU105.0750.5.01	.75	3.543	.671	2.756	.197	105123 • 105124 • 105125
BU105.0750.5.3.01	.75	6.004	.671	2.756	.197	105123 • 105124 • 105125
BU105.1000.5.01	1	3.543	.921	2.559	.197	105123 • 105124 • 105125
BU105.1000.5.3.01	1	6.004	.921	2.756	.197	105123 • 105124 • 105125

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU105...	6.075T15P	T15PQ



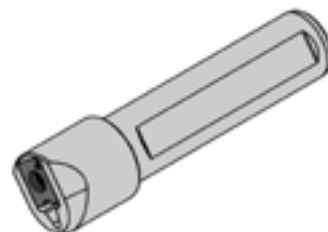
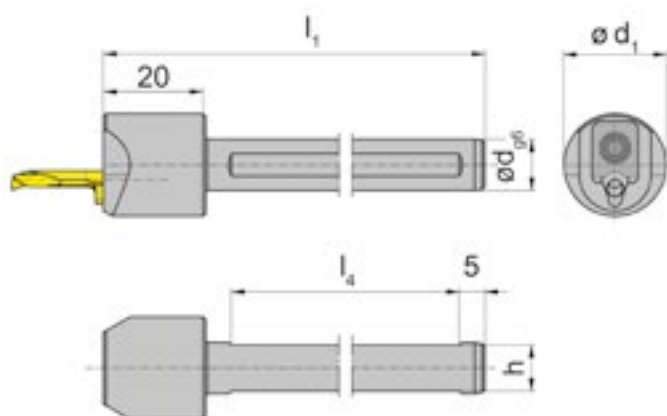
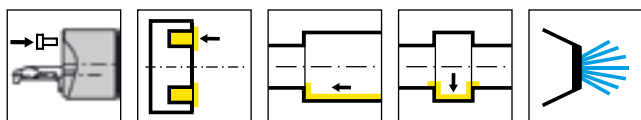
Picture = right hand cutting version

Part number	d	l ₁	h	l ₄	f ₁	d ₁	b	HWS
BU105.0500.S.03	.5	3.15	.421	1.969	.169	.787	.232	105123
BU105.0625.S.03	.625	3.15	.546	1.969	.169	.787	.232	105123
BU105.0750.S.03	.75	3.543	.671	2.165	.169	.75	.232	105123
BU105.1000.S.03	1	3.543	.921	2.165	.169	1	.232	105123
BU105.0500.S.04	.5	3.15	.421	1.969	.193	.787	.252	105124
BU105.0625.S.04	.625	3.15	.546	1.969	.193	.787	.252	105124
BU105.0750.S.04	.75	3.543	.671	2.165	.193	.75	.252	105124
BU105.1000.S.04	1	3.543	.921	2.165	.193	1	.252	105124
BU105.0500.S.05	.5	3.15	.421	1.969	.248	.787	.276	105125
BU105.0625.S.05	.625	3.15	.546	1.969	.248	.787	.276	105125
BU105.0750.S.05	.75	3.543	.671	2.165	.248	.75	.276	105125
BU105.1000.S.05	1	3.543	.921	2.165	.248	1	.276	105125

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
BU105.0...03	010.0105.03	T15PL
BU105.0...04	010.0105.04	T15PL
BU105.0...05	010.0105.05	T15PL



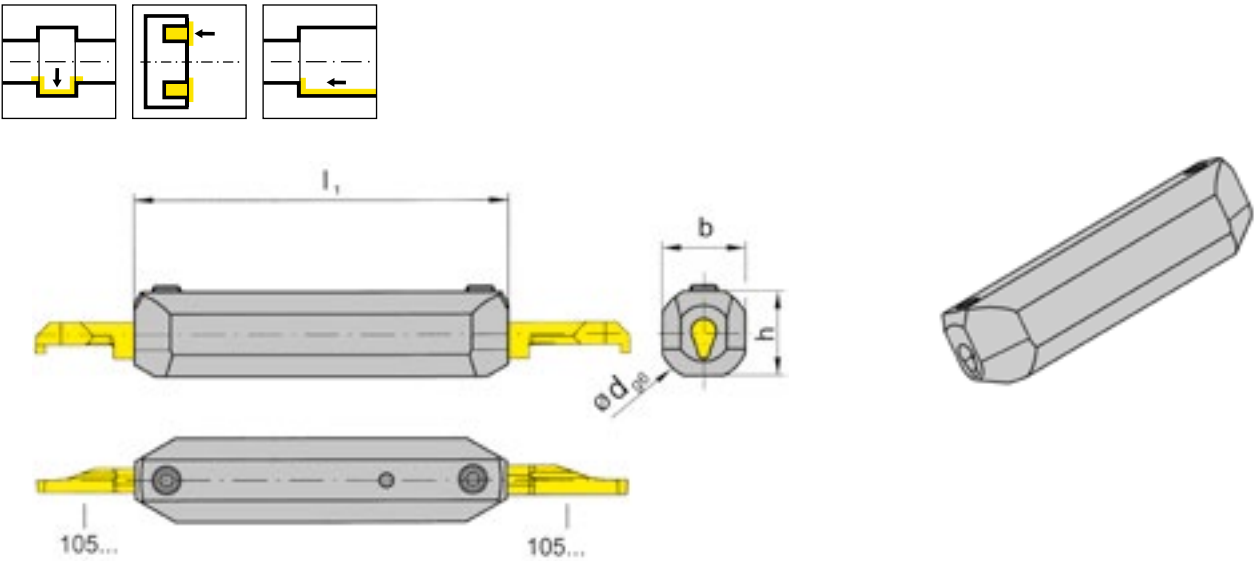
Part number	d	h	l_1	l_4	d_1	HWS
BU105.0500.S.SET	.5	.421	3.15	1.969	.787	105123 • 105124 • 105125
BU105.0625.S.SET	.625	.546	3.15	1.969	.787	105123 • 105124 • 105125
BU105.0750.S.SET	.75	.671	3.543	2.165	.75	105123 • 105124 • 105125
BU105.1000.S.SET	1	.921	3.543	2.165	1	105123 • 105124 • 105125

Dimensions in inch

One toolholder set includes 3 clamping elements each

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
BU105...	010.0105.03	T15PW



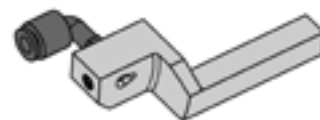
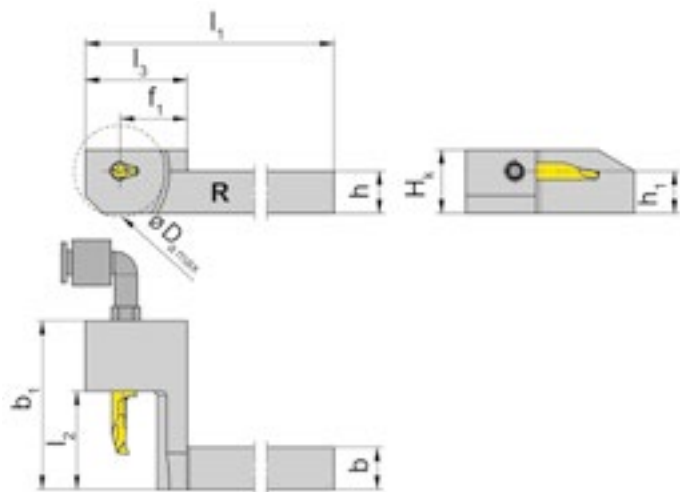
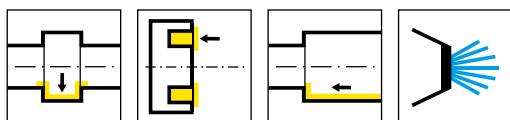
Picture = right hand cutting version

Part number	d	l ₁	h	HWS
BU105.0750.2.2.01	.75	4.724	.671	105123 • 105124 • 105125

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU105.0750.2.2.01	6.075T15P	T15PQ



R = right hand version shown

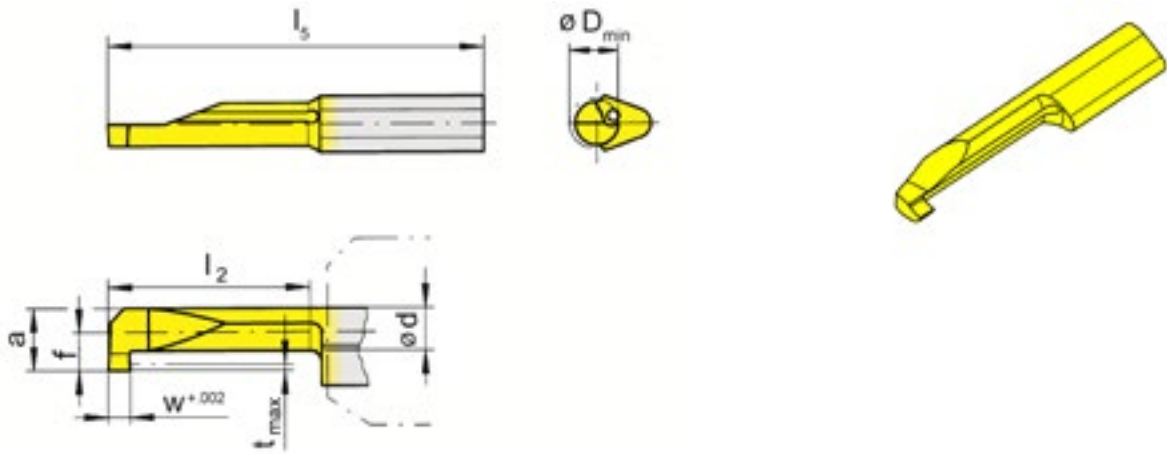
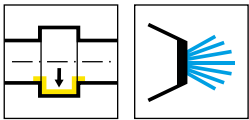
L = left hand version

Part number	h	b	l ₁	l ₃	h ₁	b ₁	f ₁	D _{g max}	H _K	l ₂	HWS
RHCU105.0375.21	.375	.375	3.898	1.142	.375	1.496	.748	1.024	.611	.709	105123 • 105124 • 105125
RHCU105.0375.41	.375	.375	3.898	1.142	.375	1.89	.748	1.024	.611	1.102	105123 • 105124 • 105125
RHCU105.0500.21	.5	.5	3.898	1.142	.5	1.496	.748	1.024	.736	.709	105123 • 105124 • 105125
RHCU105.0500.41	.5	.5	3.898	1.142	.5	1.89	.748	1.024	.736	1.102	105123 • 105124 • 105125
RHCU105.0625.21	.625	.625	4.094	1.339	.625	1.496	.945	1.417	.861	.709	105123 • 105124 • 105125
RHCU105.0625.41	.625	.625	4.094	1.339	.625	1.89	.945	1.417	.861	1.102	105123 • 105124 • 105125

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RHCU105...	6.075T15P	T15PQ



Carbide grades

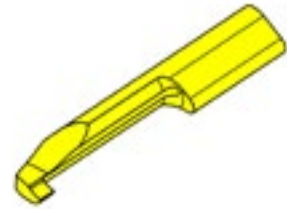
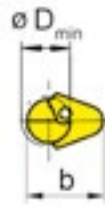
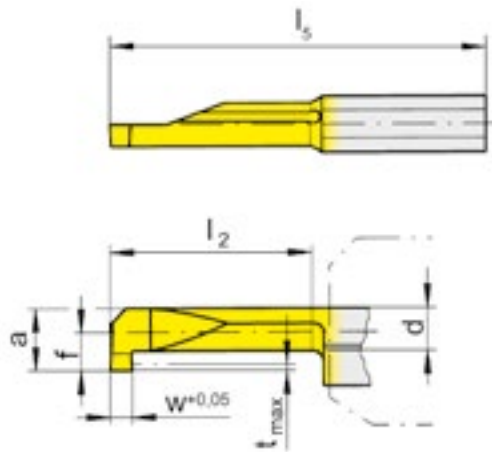
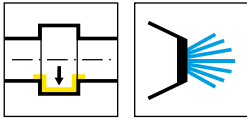
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TN35
RU105.0031.1.4	.031	.075	.146	.106	.252	.394	.984	.031	.157	105124		▲		▲	▲
RU105.0031.2.4	.031	.075	.146	.106	.252	.591	1.181	.031	.157	105124		▲		▲	▲
RU105.0031.3.4	.031	.075	.146	.106	.252	.787	1.378	.031	.157	105124				▲	▲
LU105.0031.1.4	.031	.075	.146	.106	.252	.394	.984	.031	.157	105124			▲		▲
LU105.0031.2.4	.031	.075	.146	.106	.252	.591	1.181	.031	.157	105124			▲		▲
LU105.0031.3.4	.031	.075	.146	.106	.252	.787	1.378	.031	.157	105124					▲
Dimensions in inch											P	o	-	•	•
											M	-	•	•	•
											K	-	-	•	•
											N	-	-	•	•
											S	-	•	•	•
											H	-	-	-	-



Carbide grades

R = right hand version shown

L = left hand version

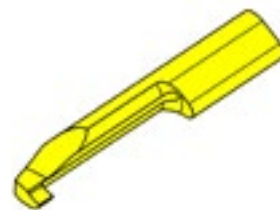
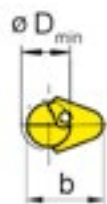
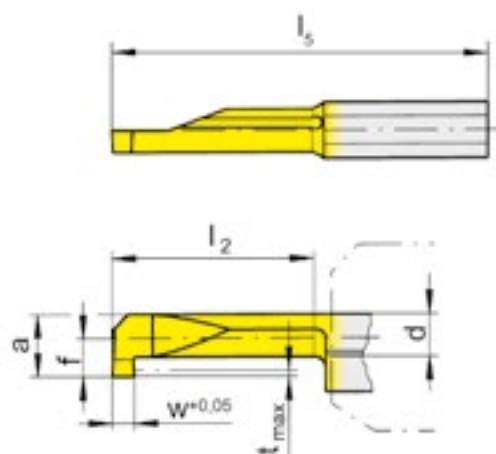
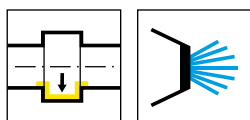
▲ on stock

Δ 4 weeks

Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		IG35	TH35	TI25	TN35
RU105.0031.1.5	.031	.091	.185	.138	.276	.394	.984	.039	.197	105125		▲	▲		▲
RU105.0031.2.5	.031	.091	.185	.138	.276	.591	1.181	.039	.197	105125			▲		▲
RU105.0031.3.5	.031	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲		▲
RU105.0031.4.5	.031	.091	.185	.138	.276	.984	1.575	.039	.197	105125			▲		▲
RU105.0031.5.5	.031	.091	.185	.138	.276	1.181	1.772	.039	.197	105125			▲		▲
RU105.0046.1.5	.046	.091	.185	.138	.276	.394	.984	.039	.197	105125			▲	Δ	▲
RU105.0046.2.5	.046	.091	.185	.138	.276	.591	1.181	.039	.197	105125			▲		▲
RU105.0046.3.5	.046	.091	.185	.138	.276	.787	1.378	.039	.197	105125		▲	▲		▲
RU105.0046.4.5	.046	.091	.185	.138	.276	.984	1.575	.039	.197	105125		▲	▲		▲
RU105.0046.5.5	.046	.091	.185	.138	.276	1.181	1.772	.039	.197	105125			▲		▲
LU105.0031.1.5	.031	.091	.185	.138	.276	.394	.984	.039	.197	105125		▲			▲
LU105.0031.2.5	.031	.091	.185	.138	.276	.591	1.181	.039	.197	105125					▲
LU105.0031.3.5	.031	.091	.185	.138	.276	.787	1.378	.039	.197	105125					▲
LU105.0031.4.5	.031	.091	.185	.138	.276	.984	1.575	.039	.197	105125					▲
LU105.0031.5.5	.031	.091	.185	.138	.276	1.181	1.772	.039	.197	105125					▲
LU105.0046.1.5	.046	.091	.185	.138	.276	.394	.984	.039	.197	105125		▲			▲
LU105.0046.2.5	.046	.091	.185	.138	.276	.591	1.181	.039	.197	105125		▲			▲
LU105.0046.3.5	.046	.091	.185	.138	.276	.787	1.378	.039	.197	105125					▲
LU105.0046.4.5	.046	.091	.185	.138	.276	.984	1.575	.039	.197	105125		▲			▲
LU105.0046.5.5	.046	.091	.185	.138	.276	1.181	1.772	.039	.197	105125					▲

Dimensions in inch

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



Carbide grades

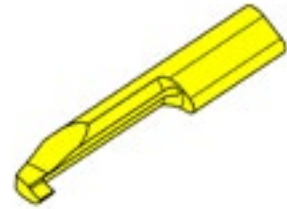
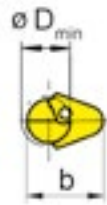
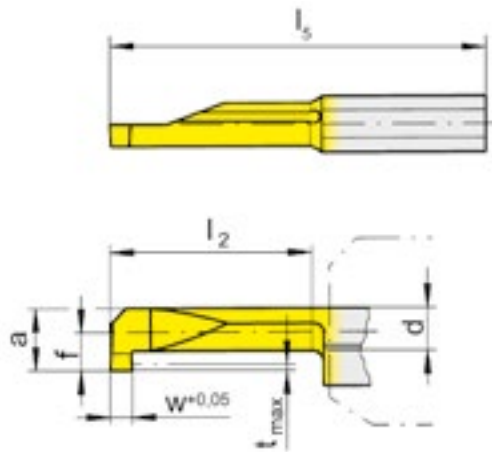
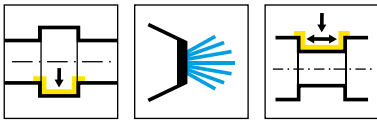
R = right hand version shown

L = left hand version

▲ on stock

△ 4 weeks

Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	IG35	TH35	TN35
RU105.0062.1.5	.062	.091	.185	.138	.276	.394	.984	.039	.197	105125		▲	▲
RU105.0062.2.5	.062	.091	.185	.138	.276	.591	1.181	.039	.197	105125		▲	▲
RU105.0062.3.5	.062	.091	.185	.138	.276	.787	1.378	.039	.197	105125		▲	▲
RU105.0062.4.5	.062	.091	.185	.138	.276	.984	1.575	.039	.197	105125		▲	▲
RU105.0078.1.5	.078	.091	.185	.138	.276	.394	.984	.039	.197	105125		▲	▲
RU105.0078.2.5	.078	.091	.185	.138	.276	.591	1.181	.039	.197	105125	▲	▲	▲
RU105.0078.3.5	.078	.091	.185	.138	.276	.787	1.378	.039	.197	105125		▲	▲
RU105.0078.4.5	.078	.091	.185	.138	.276	.984	1.575	.039	.197	105125	▲	▲	▲
RU105.0078.5.5	.078	.091	.185	.138	.276	1.181	1.772	.039	.197	105125	▲	▲	▲
LU105.0062.1.5	.062	.091	.185	.138	.276	.394	.984	.039	.197	105125			▲
LU105.0062.2.5	.062	.091	.185	.138	.276	.591	1.181	.039	.197	105125			▲
LU105.0062.3.5	.062	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲
LU105.0062.4.5	.062	.091	.185	.138	.276	.984	1.575	.039	.197	105125			▲
LU105.0078.1.5	.078	.091	.185	.138	.276	.394	.984	.039	.197	105125			▲
LU105.0078.2.5	.078	.091	.185	.138	.276	.591	1.181	.039	.197	105125			▲
LU105.0078.3.5	.078	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲
LU105.0078.4.5	.078	.091	.185	.138	.276	.984	1.575	.039	.197	105125			▲
LU105.0078.5.5	.078	.091	.185	.138	.276	1.181	1.772	.039	.197	105125			▲
Dimensions in inch											P	-	●
											M	●	●
											K	-	●
											N	-	●
											S	●	●
											H	-	-



Carbide grades

R = right hand version shown

L = left hand version

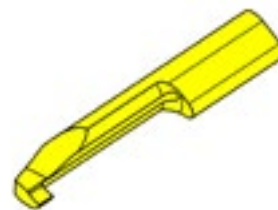
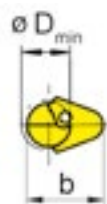
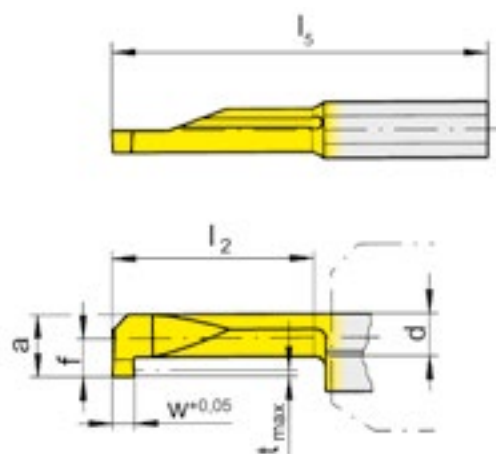
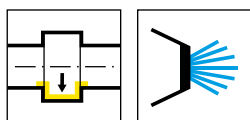
▲ on stock

Δ 4 weeks

Part number	w	f	a	d	b	l_2	l_1	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TI25	TN35
RU105.0031.1.6	.031	.13	.224	.146	.276	.394	.984	.071	.236	105125		▲	▲	▲		▲
RU105.0031.2.6	.031	.13	.224	.146	.276	.591	1.181	.071	.236	105125				▲		▲
RU105.0031.3.6	.031	.13	.224	.146	.276	.787	1.378	.071	.236	105125		▲	▲	▲		▲
RU105.0031.4.6	.031	.13	.224	.146	.276	.984	1.575	.071	.236	105125		▲	▲	▲	Δ	▲
RU105.0031.5.6	.031	.13	.224	.146	.276	1.181	1.772	.071	.236	105125				▲		▲
RU105.0046.1.6	.046	.13	.224	.146	.276	.394	.984	.071	.236	105125				▲		▲
RU105.0046.2.6	.046	.13	.224	.146	.276	.591	1.181	.071	.236	105125				▲		▲
RU105.0046.3.6	.046	.13	.224	.146	.276	.787	1.378	.071	.236	105125				▲		▲
RU105.0046.4.6	.046	.13	.224	.146	.276	.984	1.575	.071	.236	105125				▲		▲
RU105.0046.5.6	.046	.13	.224	.146	.276	1.181	1.772	.071	.236	105125			▲	▲		▲
LU105.0031.1.6	.031	.13	.224	.146	.276	.394	.984	.071	.236	105125			▲			▲
LU105.0031.2.6	.031	.13	.224	.146	.276	.591	1.181	.071	.236	105125						▲
LU105.0031.3.6	.031	.13	.224	.146	.276	.787	1.378	.071	.236	105125						▲
LU105.0031.4.6	.031	.13	.224	.146	.276	.984	1.575	.071	.236	105125						▲
LU105.0046.1.6	.046	.13	.224	.146	.276	.394	.984	.071	.236	105125			▲			▲
LU105.0046.2.6	.046	.13	.224	.146	.276	.591	1.181	.071	.236	105125						▲
LU105.0046.3.6	.046	.13	.224	.146	.276	.787	1.378	.071	.236	105125						▲
LU105.0046.4.6	.046	.13	.224	.146	.276	.984	1.575	.071	.236	105125						▲
LU105.0046.5.6	.046	.13	.224	.146	.276	1.181	1.772	.071	.236	105125						▲

Dimensions in inch

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



Carbide grades

R = right hand version shown

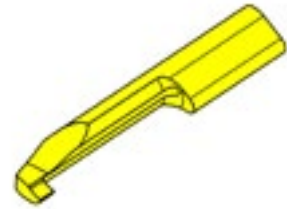
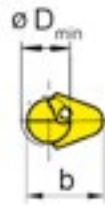
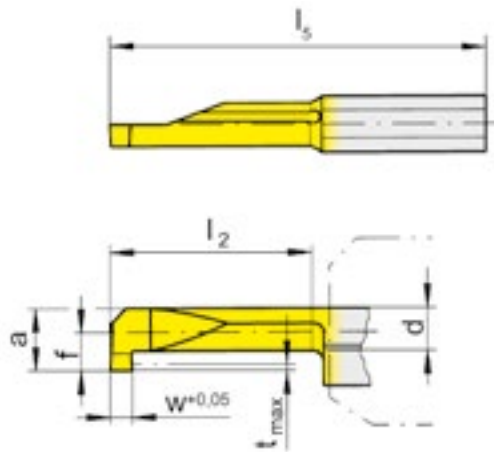
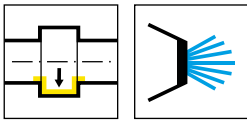
L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	f	a	d	b	l_2	l_1	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TI25	TN35
RU105.0062.1.6	.062	.13	.224	.146	.276	.394	.984	.071	.236	105125				▲		▲
RU105.0062.2.6	.062	.13	.224	.146	.276	.591	1.181	.071	.236	105125				▲		▲
RU105.0062.3.6	.062	.13	.224	.146	.276	.787	1.378	.071	.236	105125		▲	▲	▲		▲
RU105.0062.4.6	.062	.13	.224	.146	.276	.984	1.575	.071	.236	105125			▲	▲	Δ	▲
RU105.0078.1.6	.078	.13	.224	.146	.276	.394	.984	.071	.236	105125		▲	▲	▲		▲
RU105.0078.3.6	.078	.13	.224	.146	.276	.787	1.378	.071	.236	105125			▲	▲		▲
RU105.0078.4.6	.078	.13	.224	.146	.276	.984	1.575	.071	.236	105125			▲	▲		▲
RU105.0062.5.6	.062	.13	.224	.146	.276	1.181	1.772	.071	.236	105125			▲	▲		▲
RU105.0078.5.6	.078	.13	.224	.146	.276	1.181	1.772	.071	.236	105125				▲		▲
LU105.0062.1.6	.062	.13	.224	.146	.276	.394	.984	.071	.236	105125			▲			▲
LU105.0062.2.6	.062	.13	.224	.146	.276	.591	1.181	.071	.236	105125			▲			▲
LU105.0062.3.6	.062	.13	.224	.146	.276	.787	1.378	.071	.236	105125						▲
LU105.0062.4.6	.062	.13	.224	.146	.276	.984	1.575	.071	.236	105125						▲
LU105.0078.1.6	.078	.13	.224	.146	.276	.394	.984	.071	.236	105125						▲
LU105.0078.3.6	.078	.13	.224	.146	.276	.787	1.378	.071	.236	105125						▲
LU105.0078.4.6	.078	.13	.224	.146	.276	.984	1.575	.071	.236	105125						▲
P	o	-	•	•	•	•	•	•	•	•						
M	-	•	•	•	•	•	•	•	•	•						
K	-	-	•	•	•	•	•	•	•	•						
N	-	-	•	•	•	•	•	•	•	•						
S	-	•	•	•	•	•	•	•	•	•						
H	-	-	-	-	-	-	-	-	-	-						

Dimensions in inch



Carbide grades

R = right hand version shown

L = left hand version

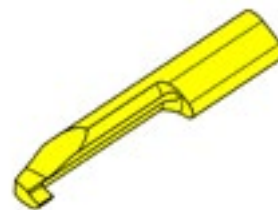
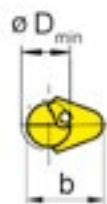
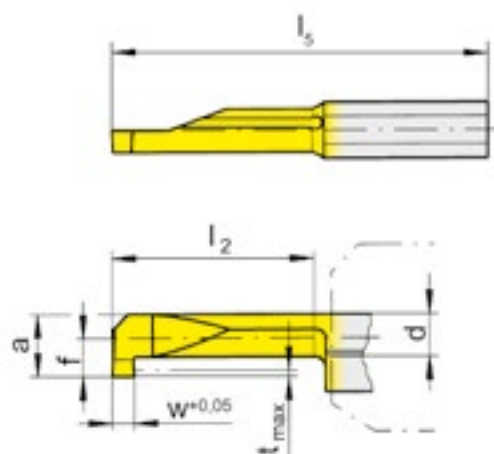
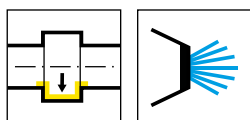
▲ on stock

Δ 4 weeks

Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TI25	TN35
RU105.0031.1.7	.031	.157	.252	.146	.276	.394	.984	.098	.268	105125		▲	▲	▲		▲
RU105.0031.2.7	.031	.157	.252	.146	.276	.591	1.181	.098	.268	105125		▲	▲	▲		▲
RU105.0031.3.7	.031	.157	.252	.146	.276	.787	1.378	.098	.268	105125		▲	▲	▲		▲
RU105.0031.4.7	.031	.157	.252	.146	.276	.984	1.575	.098	.268	105125			▲	▲		▲
RU105.0031.5.7	.031	.157	.252	.146	.276	1.181	1.772	.098	.268	105125			▲	▲		▲
RU105.0046.1.7	.046	.157	.252	.146	.276	.394	.984	.098	.268	105125				▲	Δ	▲
RU105.0046.2.7	.046	.157	.252	.146	.276	.591	1.181	.098	.268	105125				▲		▲
RU105.0046.3.7	.046	.157	.252	.146	.276	.787	1.378	.098	.268	105125				▲		▲
RU105.0046.4.7	.046	.157	.252	.146	.276	.984	1.575	.098	.268	105125			▲	▲		▲
RU105.0046.5.7	.046	.157	.252	.146	.276	1.181	1.772	.098	.268	105125			▲	▲		▲
RU105.0062.1.7	.062	.157	.252	.146	.276	.394	.984	.098	.268	105125				▲		▲
LU105.0031.1.7	.031	.157	.252	.146	.276	.394	.984	.098	.268	105125			▲			▲
LU105.0031.2.7	.031	.157	.252	.146	.276	.591	1.181	.098	.268	105125			▲			▲
LU105.0031.3.7	.031	.157	.252	.146	.276	.787	1.378	.098	.268	105125						▲
LU105.0031.4.7	.031	.157	.252	.146	.276	.984	1.575	.098	.268	105125						▲
LU105.0046.1.7	.046	.157	.252	.146	.276	.394	.984	.098	.268	105125						▲
LU105.0046.2.7	.046	.157	.252	.146	.276	.591	1.181	.098	.268	105125						▲
LU105.0046.3.7	.046	.157	.252	.146	.276	.787	1.378	.098	.268	105125						▲
LU105.0046.4.7	.046	.157	.252	.146	.276	.984	1.575	.098	.268	105125						Δ
LU105.0046.5.7	.046	.157	.252	.146	.276	1.181	1.772	.098	.268	105125						▲
LU105.0062.1.7	.062	.157	.252	.146	.276	.394	.984	.098	.268	105125						▲

Dimensions in inch

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



Carbide grades

R = right hand version shown

L = left hand version

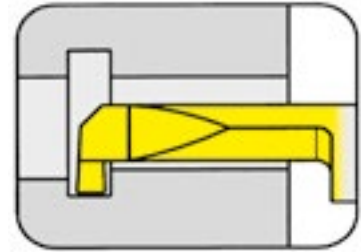
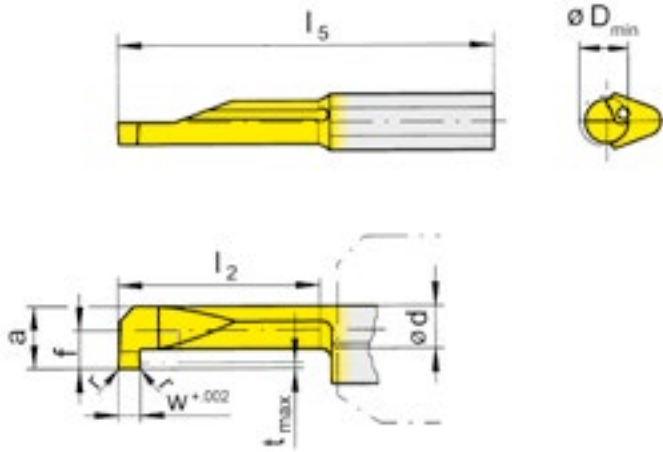
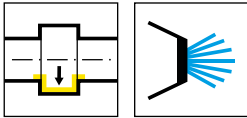
▲ on stock

△ 4 weeks

Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TN35
RU105.0062.1.7	.062	.157	.252	.146	.276	.394	.984	.098	.268	105125				▲	▲
RU105.0062.2.7	.062	.157	.252	.146	.276	.591	1.181	.098	.268	105125				▲	▲
RU105.0062.3.7	.062	.157	.252	.146	.276	.787	1.378	.098	.268	105125		▲		▲	▲
RU105.0062.4.7	.062	.157	.252	.146	.276	.984	1.575	.098	.268	105125				▲	▲
RU105.0062.5.7	.062	.157	.252	.146	.276	1.181	1.772	.098	.268	105125			▲	▲	▲
RU105.0078.1.7	.078	.157	.252	.146	.276	.394	.984	.098	.268	105125		▲		▲	▲
RU105.0078.2.7	.078	.157	.252	.146	.276	.591	1.181	.098	.268	105125		▲		▲	▲
RU105.0078.3.7	.078	.157	.252	.146	.276	.787	1.378	.098	.268	105125				▲	▲
RU105.0078.4.7	.078	.157	.252	.146	.276	.984	1.575	.098	.268	105125				▲	▲
RU105.0078.5.7	.078	.157	.252	.146	.276	1.181	1.772	.098	.268	105125			▲	▲	△
LU105.0062.1.7	.062	.157	.252	.146	.276	.394	.984	.098	.268	105125					▲
LU105.0062.2.7	.062	.157	.252	.146	.276	.591	1.181	.098	.268	105125			▲	△	▲
LU105.0062.3.7	.062	.157	.252	.146	.276	.787	1.378	.098	.268	105125					▲
LU105.0062.4.7	.062	.157	.252	.146	.276	.984	1.575	.098	.268	105125					▲
LU105.0062.5.7	.062	.157	.252	.146	.276	1.181	1.772	.098	.268	105125			▲		▲
LU105.0078.1.7	.078	.157	.252	.146	.276	.394	.984	.098	.268	105125			▲		▲
LU105.0078.2.7	.078	.157	.252	.146	.276	.591	1.181	.098	.268	105125			▲		▲
LU105.0078.3.7	.078	.157	.252	.146	.276	.787	1.378	.098	.268	105125					▲
LU105.0078.4.7	.078	.157	.252	.146	.276	.984	1.575	.098	.268	105125					▲
LU105.0078.5.7	.078	.157	.252	.146	.276	1.181	1.772	.098	.268	105125					△

Dimensions in inch

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



Carbide grades

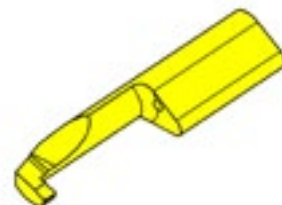
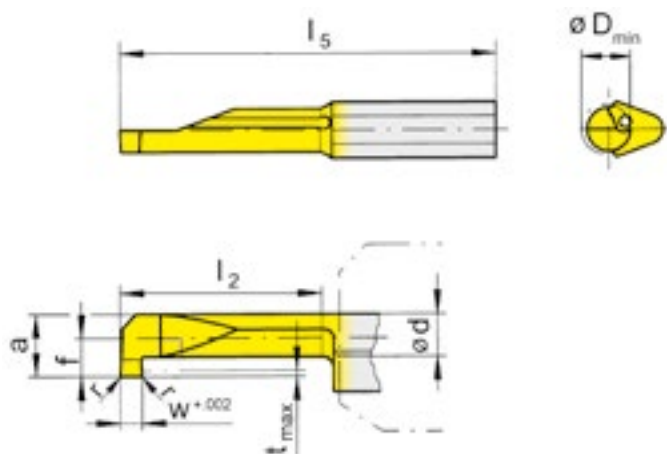
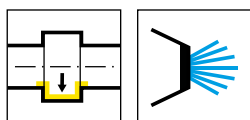
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		IG35	TH35	TN35
RU105.4604.1.5	.046	.004	.091	.185	.138	.394	.984	.039	.197	105125			▲	▲
RU105.4604.3.5	.046	.004	.091	.185	.138	.787	1.378	.039	.197	105125			▲	▲
RU105.4604.5.5	.046	.004	.091	.185	.138	1.181	1.772	.039	.197	105125			▲	
RU105.6204.1.5	.062	.004	.091	.185	.138	.394	.984	.039	.197	105125			▲	▲
RU105.6204.3.5	.062	.004	.091	.185	.138	.787	1.378	.039	.197	105125			▲	▲
RU105.6204.5.5	.062	.004	.091	.185	.138	1.181	1.772	.039	.197	105125		▲	▲	▲
RU105.7804.1.5	.078	.004	.091	.185	.138	.394	.984	.039	.197	105125			Δ	Δ
RU105.7804.3.5	.078	.004	.091	.185	.138	.787	1.378	.039	.197	105125			Δ	▲
RU105.7804.5.5	.078	.004	.091	.185	.138	1.181	1.772	.039	.197	105125		▲	Δ	▲
LU105.4604.3.5	.046	.004	.091	.185	.138	.787	1.378	.039	.197	105125				▲
Dimensions in inch												P	-	●
												M	●	●
												K	-	●
												N	-	●
												S	●	●
												H	-	-



Carbide grades

R = right hand version shown

L = left hand version

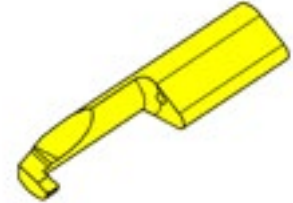
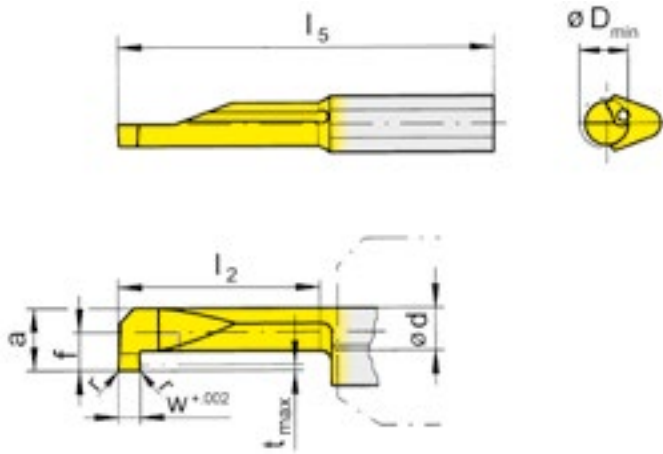
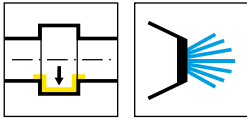
▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	IG35	TH35	TN35
RU105.4604.1.6	.046	.004	.13	.224	.146	.394	.984	.071	.236	105125		▲	▲
RU105.4604.3.6	.046	.004	.13	.224	.146	.787	1.378	.071	.236	105125		▲	▲
RU105.4604.5.6	.046	.004	.13	.224	.146	1.181	1.772	.071	.236	105125		▲	▲
RU105.6204.1.6	.062	.004	.13	.224	.146	.394	.984	.071	.236	105125	▲	▲	▲
RU105.6204.3.6	.062	.004	.13	.224	.146	.787	1.378	.071	.236	105125		▲	▲
RU105.6204.5.6	.062	.004	.13	.224	.146	1.181	1.772	.071	.236	105125		▲	▲
RU105.7804.1.6	.078	.004	.13	.224	.146	.394	.984	.071	.236	105125		▲	▲
RU105.7804.3.6	.078	.004	.13	.224	.146	.787	1.378	.071	.236	105125		▲	▲
RU105.7804.5.6	.078	.004	.13	.224	.146	1.181	1.772	.071	.236	105125	▲	▲	▲
RU105.7808.5.6	.078	.008	.13	.224	.146	1.181	1.772	.071	.236	105125	▲	▲	▲
LU105.4604.1.6	.046	.004	.13	.224	.146	.394	.984	.071	.236	105125	▲		▲
LU105.7804.3.6	.078	.004	.13	.224	.146	.787	1.378	.071	.236	105125			Δ

Dimensions in inch

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



Carbide grades

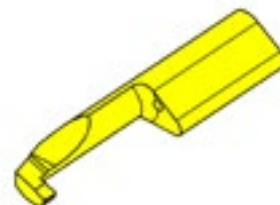
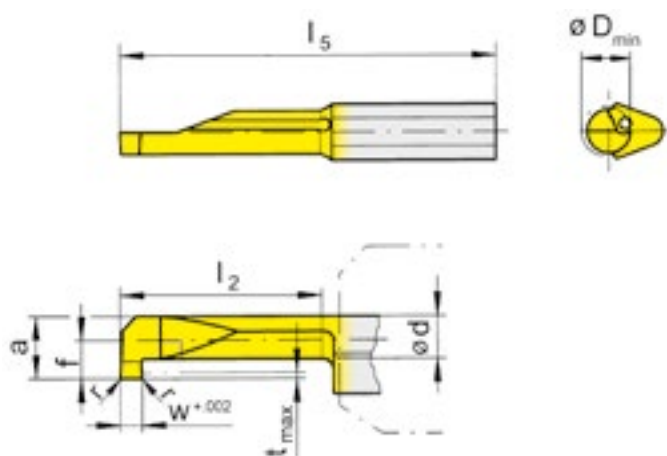
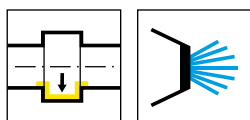
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	l ₂	l ₅	t _{max}	D _{min}	HIS		MG12	IG35	TH35	TN35	
RU105.4604.1.7	.046	.004	.157	.252	.146	.394	.984	.098	.268	105125			▲	▲	Δ	
RU105.4604.2.7	.046	.004	.157	.252	.146	.591	1.181	.098	.268	105125			▲	▲	▲	
RU105.4604.3.7	.046	.004	.157	.252	.146	.787	1.378	.098	.268	105125		Δ	▲	▲	▲	
RU105.4604.4.7	.046	.004	.157	.252	.146	.984	1.575	.098	.268	105125			▲	▲	▲	
RU105.4604.5.7	.046	.004	.157	.252	.146	1.181	1.772	.098	.268	105125			▲	▲	▲	
RU105.4608.1.7	.046	.008	.157	.252	.146	.394	.984	.098	.268	105125				▲	▲	
RU105.4608.2.7	.046	.008	.157	.252	.146	.591	1.181	.098	.268	105125				▲	▲	
RU105.4608.4.7	.046	.008	.157	.252	.146	.984	1.575	.098	.268	105125			▲	▲	▲	
RU105.4608.5.7	.046	.008	.157	.252	.146	1.181	1.772	.098	.268	105125			▲	▲	▲	
LU105.4604.3.7	.046	.004	.157	.252	.146	.787	1.378	.098	.268	105125					▲	
Dimensions in inch												P	o	-	●	●
												M	-	●	●	●
												K	-	-	●	●
												N	-	-	●	●
												S	-	●	●	●
												H	-	-	-	-



Carbide grades

R = right hand version shown

L = left hand version

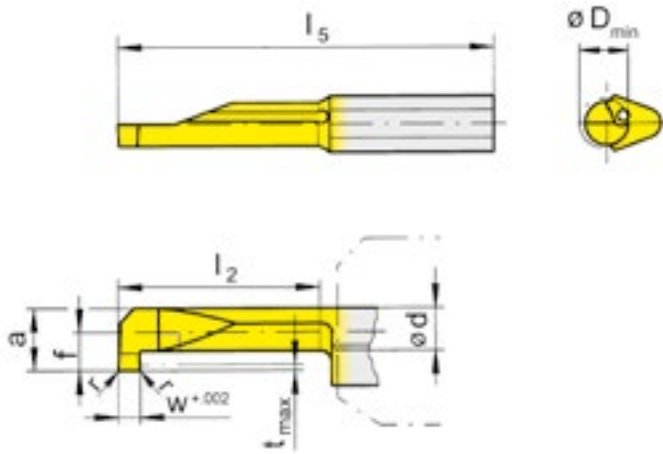
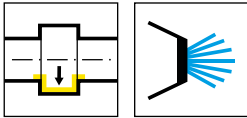
▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		MG12	IG35	TH35	TN35
RU105.6204.1.7	.062	.004	.157	.252	.146	.394	.984	.098	.268	105125				▲	▲
RU105.6204.2.7	.062	.004	.157	.252	.146	.591	1.181	.098	.268	105125				▲	▲
RU105.6204.3.7	.062	.004	.157	.252	.146	.787	1.378	.098	.268	105125		▲	▲	▲	▲
RU105.6204.4.7	.062	.004	.157	.252	.146	.984	1.575	.098	.268	105125			▲	▲	▲
RU105.6208.1.7	.062	.008	.157	.252	.146	.394	.984	.098	.268	105125				▲	▲
RU105.6208.2.7	.062	.008	.157	.252	.146	.591	1.181	.098	.268	105125				▲	▲
RU105.6208.3.7	.062	.008	.157	.252	.146	.787	1.378	.098	.268	105125			▲	▲	▲
RU105.6208.4.7	.062	.008	.157	.252	.146	.984	1.575	.098	.268	105125			▲	▲	▲
RU105.6208.5.7	.062	.008	.157	.252	.146	1.181	1.772	.098	.268	105125			▲	▲	▲
LU105.6204.1.7	.062	.004	.157	.252	.146	.394	.984	.098	.268	105125					Δ

Dimensions in inch

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



Carbide grades

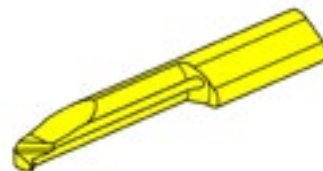
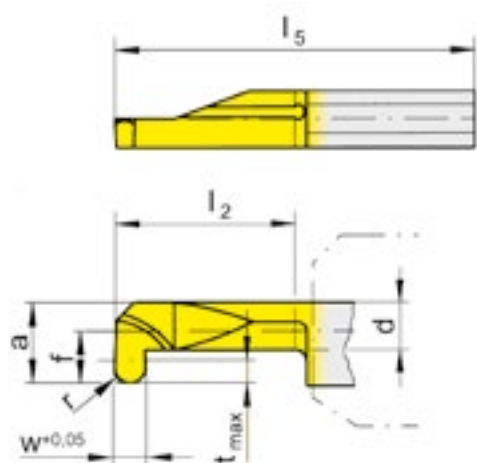
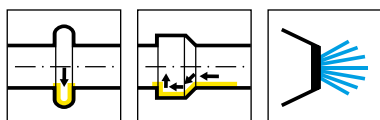
R = right hand version shown

L = left hand version

▲ on stock

△ 4 weeks

Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	IG35	TH35	TN35
RU105.7804.1.7	.078	.004	.157	.252	.146	.394	.984	.098	.268	105125		▲	▲
RU105.7804.2.7	.078	.004	.157	.252	.146	.591	1.181	.098	.268	105125		▲	▲
RU105.7804.3.7	.078	.004	.157	.252	.146	.787	1.378	.098	.268	105125		▲	▲
RU105.7804.4.7	.078	.004	.157	.252	.146	.984	1.575	.098	.268	105125		▲	▲
RU105.7804.5.7	.078	.004	.157	.252	.146	1.181	1.772	.098	.268	105125		▲	▲
RU105.7808.1.7	.078	.008	.157	.252	.146	.394	.984	.098	.268	105125		▲	▲
RU105.7808.2.7	.078	.008	.157	.252	.146	.591	1.181	.098	.268	105125	▲	▲	▲
RU105.7808.3.7	.078	.008	.157	.252	.146	.787	1.378	.098	.268	105125		▲	▲
RU105.7808.4.7	.078	.008	.157	.252	.146	.984	1.575	.098	.268	105125	▲	▲	▲
RU105.7808.5.7	.078	.008	.157	.252	.146	1.181	1.772	.098	.268	105125		▲	▲
LU105.7804.3.7	.078	.004	.157	.252	.146	.787	1.378	.098	.268	105125	▲		▲
Dimensions in inch											P	-	●
											M	●	●
											K	-	●
											N	-	●
											S	●	●
											H	-	-



Carbide grades

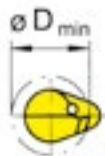
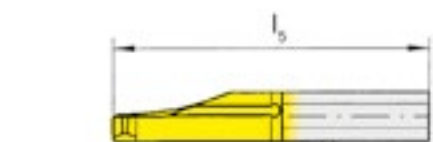
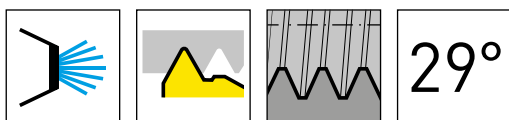
R = right hand version shown

L = left hand version

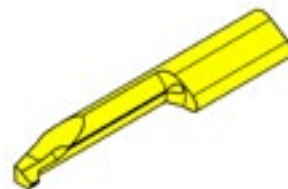
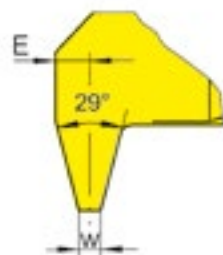
▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		IG35	TH35	TI25	TN35
RU105.2346.2.4	.046	.023	.075	.146	.106	.252	.591	1.181	.031	.157	105124			▲		▲
RU105.2346.3.5	.046	.023	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲	Δ	▲
RU105.2346.4.6	.046	.023	.13	.224	.146	.276	.984	1.575	.071	.236	105125			▲		▲
RU105.2346.5.7	.046	.023	.157	.252	.146	.276	1.181	1.772	.098	.268	105125		▲	▲		▲
RU105.3162.3.5	.062	.031	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲		▲
RU105.3162.4.6	.062	.031	.13	.224	.146	.276	.984	1.575	.071	.236	105125			▲		▲
RU105.3162.5.7	.062	.031	.157	.252	.146	-	1.181	1.772	.098	.268	105125			▲		▲
RU105.3978.3.5	.078	.039	.091	.185	.138	.276	.787	1.378	.039	.197	105125			▲		▲
RU105.3978.4.6	.078	.039	.13	.224	.146	.276	.984	1.575	.071	.236	105125			▲		▲
RU105.3978.5.7	.078	.039	.157	.252	.146	.276	1.181	1.772	.098	.268	105125		▲	▲		▲
LU105.2346.4.6	.046	.023	.13	.224	.146	.276	.984	1.575	.071	.236	105125					▲
LU105.2346.5.7	.046	.023	.157	.252	.146	.276	1.181	1.772	.098	.268	105125		▲			▲
LU105.3162.4.6	.062	.031	.13	.224	.146	.276	.984	1.575	.071	.236	105125					Δ
LU105.3162.5.7	.062	.031	.157	.252	.146	-	1.181	1.772	.098	.268	105125		▲			▲
Dimensions in inch												P	-	•	•	•
												M	•	•	•	•
												K	-	•	•	•
												N	-	•	•	•
												S	•	•	•	•
												H	-	-	-	-



Detail X



Carbide grades

R = right hand version shown

L = left hand version

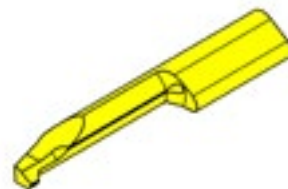
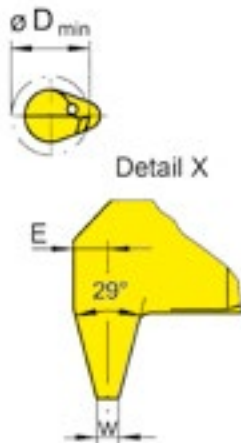
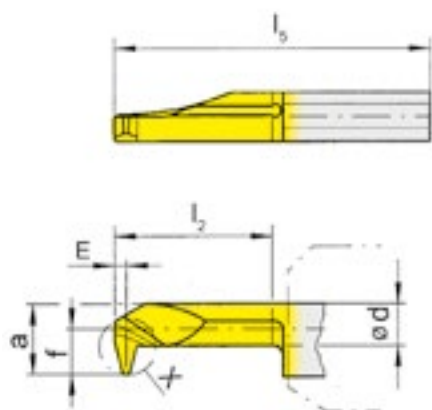
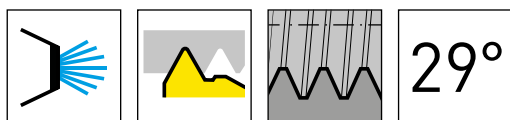
▲ on stock

△ 4 weeks

Part number	E	f	a	d	l_2	l_5	D_{min}	HIS		IG35	TH35	TI25	TN35
RU105.AC10.3.7	.039	.157	.252	.173	.787	1.378	.394	105125			▲		▲
RU105.AC12.3.7	.039	.157	.252	.189	.787	1.378	.276	105125		▲	▲		▲
RU105.AC12.5.7	.039	.157	.252	.189	1.181	1.772	.276	105125			▲		▲
RU105.AC14.2.6	.035	.13	.224	.169	.591	1.181	.236	105125			▲		▲
RU105.AC14.4.6	.035	.13	.224	.169	.984	1.575	.236	105125		▲	▲		▲
RU105.AC16.2.5	.028	.079	.173	.122	.591	1.181	.189	105125				▲	▲
RU105.AC16.4.5	.028	.079	.173	.122	.984	1.575	.189	105125			▲		▲

Dimensions in inch

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



Carbide grades

R = right hand version shown

L = left hand version

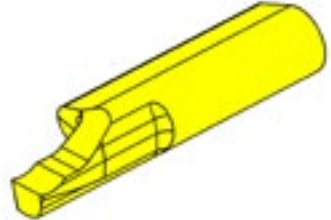
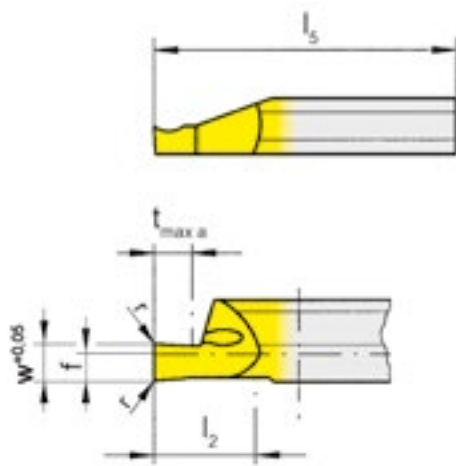
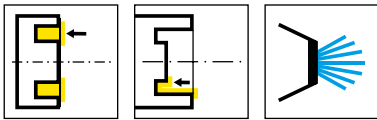
▲ on stock

Δ 4 weeks

Part number	E	f	a	d	l_2	l_s	D_{min}	HIS		IG35	TH35	TI25	TN35
RU105.SA10.3.7	.039	.157	.252	.193	.787	1.378	.433	105125		▲	▲		Δ
RU105.SA12.3.7	.039	.157	.252	.201	.787	1.378	.323	105125		▲	▲		▲
RU105.SA12.5.7	.039	.157	.252	.201	1.181	1.772	.323	105125			▲	Δ	▲
RU105.SA14.2.6	.035	.13	.224	.177	.591	1.181	.268	105125		▲	▲		▲
RU105.SA14.4.6	.035	.13	.224	.177	.984	1.575	.268	105125		▲	▲		▲
RU105.SA16.2.5	.028	.091	.185	.142	.591	1.181	.201	105125		▲	▲		▲
RU105.SA16.4.5	.028	.091	.185	.142	.984	1.575	.201	105125		▲	▲		▲

Dimensions in inch

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



Carbide grades

R = right hand version shown

L = left hand version

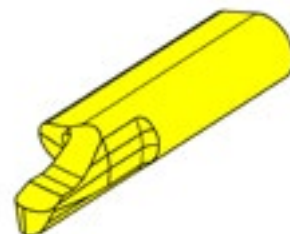
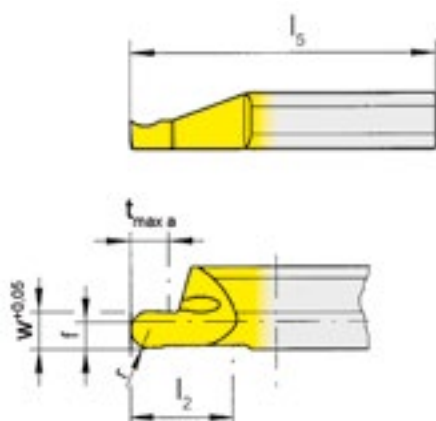
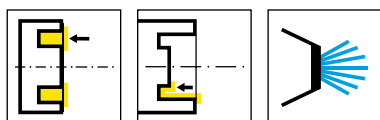
▲ on stock

△ 4 weeks

Part number	w	r	f	b	l_2	l_s	$t_{max a}$	$D_{a min}$	HIS	IG35	TH35	TI25
RU105.0812.1.8	.125	.006	.079	.276	.394	.984	.236	.315	105125		▲	▲
RU105.0812.2.8	.125	.006	.079	.276	.591	1.378	.236	.315	105125		▲	▲
RU105.0846.1.8	.046	.006	.079	.276	.394	.984	.098	.315	105125		▲	▲
RU105.0846.2.8	.046	.006	.079	.276	.591	1.378	.098	.315	105125		▲	▲
RU105.0862.1.8	.062	.006	.079	.276	.394	.984	.118	.315	105125		▲	▲
RU105.0862.2.8	.062	.006	.079	.276	.591	1.378	.118	.315	105125		▲	▲
RU105.0878.1.8	.078	.006	.079	.276	.394	.984	.157	.315	105125		▲	▲
RU105.0878.2.8	.078	.006	.079	.276	.591	1.378	.157	.315	105125		▲	▲
RU105.0894.1.8	.094	.006	.079	.276	.394	.984	.197	.315	105125		▲	▲
RU105.0894.2.8	.094	.006	.079	.276	.591	1.378	.197	.315	105125		▲	▲
LU105.0812.1.8	.125	.006	.079	.276	.394	.984	.236	.315	105125			▲
LU105.0812.2.8	.125	.006	.079	.276	.591	1.378	.236	.315	105125	▲		▲
LU105.0846.1.8	.046	.006	.079	.276	.394	.984	.098	.315	105125			▲
LU105.0846.2.8	.046	.006	.079	.276	.591	1.378	.098	.315	105125	▲		▲
LU105.0862.1.8	.062	.006	.079	.276	.394	.984	.118	.315	105125			▲
LU105.0862.2.8	.062	.006	.079	.276	.591	1.378	.118	.315	105125	▲		▲
LU105.0878.1.8	.078	.006	.079	.276	.394	.984	.157	.315	105125			▲
LU105.0878.2.8	.078	.006	.079	.276	.591	1.378	.157	.315	105125	▲		▲
LU105.0894.1.8	.094	.006	.079	.276	.394	.984	.197	.315	105125			▲
LU105.0894.2.8	.094	.006	.079	.276	.591	1.378	.197	.315	105125	▲		▲

Dimensions in inch

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



Carbide grades

R = right hand version shown

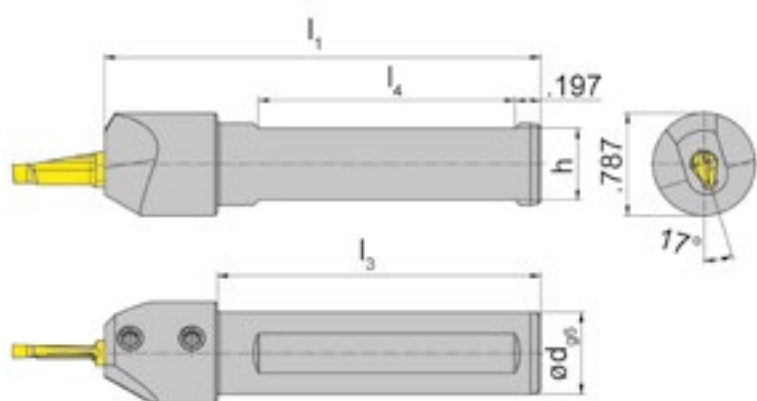
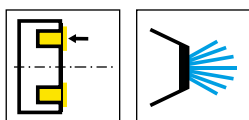
L = left hand version

▲ on stock

△ 4 weeks

Part number	w	r	f	b	l_2	l_5	$t_{max a}$	$D_{a min}$	HIS	IG35	TH35	TI25
RU105.FF12.1.8	.125	.063	.079	.276	.394	.984	.236	.315	105125		▲	▲
RU105.FF12.2.8	.125	.063	.079	.276	.591	1.378	.236	.315	105125		▲	▲
RU105.FF46.1.8	.046	.023	.079	.276	.394	.984	.098	.315	105125		▲	▲
RU105.FF46.2.8	.046	.023	.079	.276	.591	1.378	.098	.315	105125		▲	▲
RU105.FF62.1.8	.062	.031	.079	.276	.394	.984	.118	.315	105125		▲	▲
RU105.FF62.2.8	.062	.031	.079	.276	.591	1.378	.118	.315	105125		▲	▲
RU105.FF78.1.8	.078	.039	.079	.276	.394	.984	.157	.315	105125		▲	▲
RU105.FF78.2.8	.078	.039	.079	.276	.591	1.378	.157	.315	105125		▲	▲
RU105.FF94.1.8	.094	.047	.079	.276	.394	.984	.197	.315	105125		▲	▲
RU105.FF94.2.8	.094	.047	-	.276	.591	1.378	.197	.315	105125		▲	▲
LU105.FF12.1.8	.125	.063	.079	.276	.394	.984	.236	.315	105125	▲		▲
LU105.FF46.1.8	.046	.023	.079	.276	.394	.984	.098	.315	105125			▲
LU105.FF62.1.8	.062	.031	.079	.276	.394	.984	.118	.315	105125			▲
LU105.FF78.1.8	.078	.039	.079	.276	.394	.984	.157	.315	105125	▲		▲
P	-	•	•	•								
M	•	•	•	•								
K	-	•	•	•								
N	-	•	•	•								
S	•	•	•	•								
H	-	-	-	-								

Dimensions in inch



L = left hand version shown

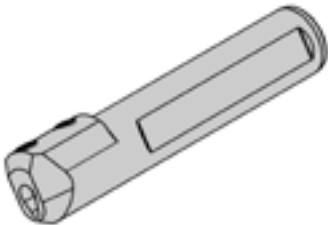
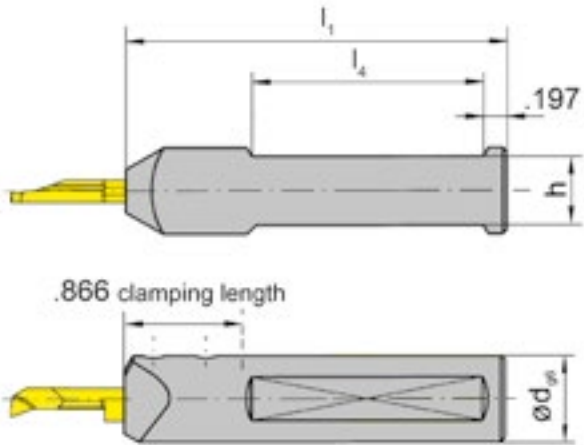
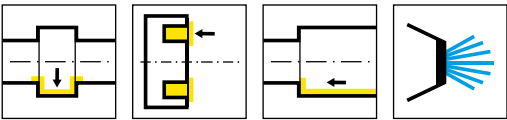
R = right hand version

Part number	d	l ₁	l ₃	h	l ₄	HWS
RBU105.0625.12.2	.625	3.346	2.48	.546	1.969	105225
RBU105.0750.12.2	.75	3.937	-	.671	2.165	105225
RBU105.1000.12.2	1	3.937	-	.921	2.165	105225
LBU105.0625.12.2	.625	3.346	2.48	.546	1.969	105225
LBU105.0750.12.2	.75	3.937	-	.671	2.165	105225
LBU105.1000.12.2	1	3.937	-	.921	2.165	105225

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU105...	6.075T15P	T15PQ



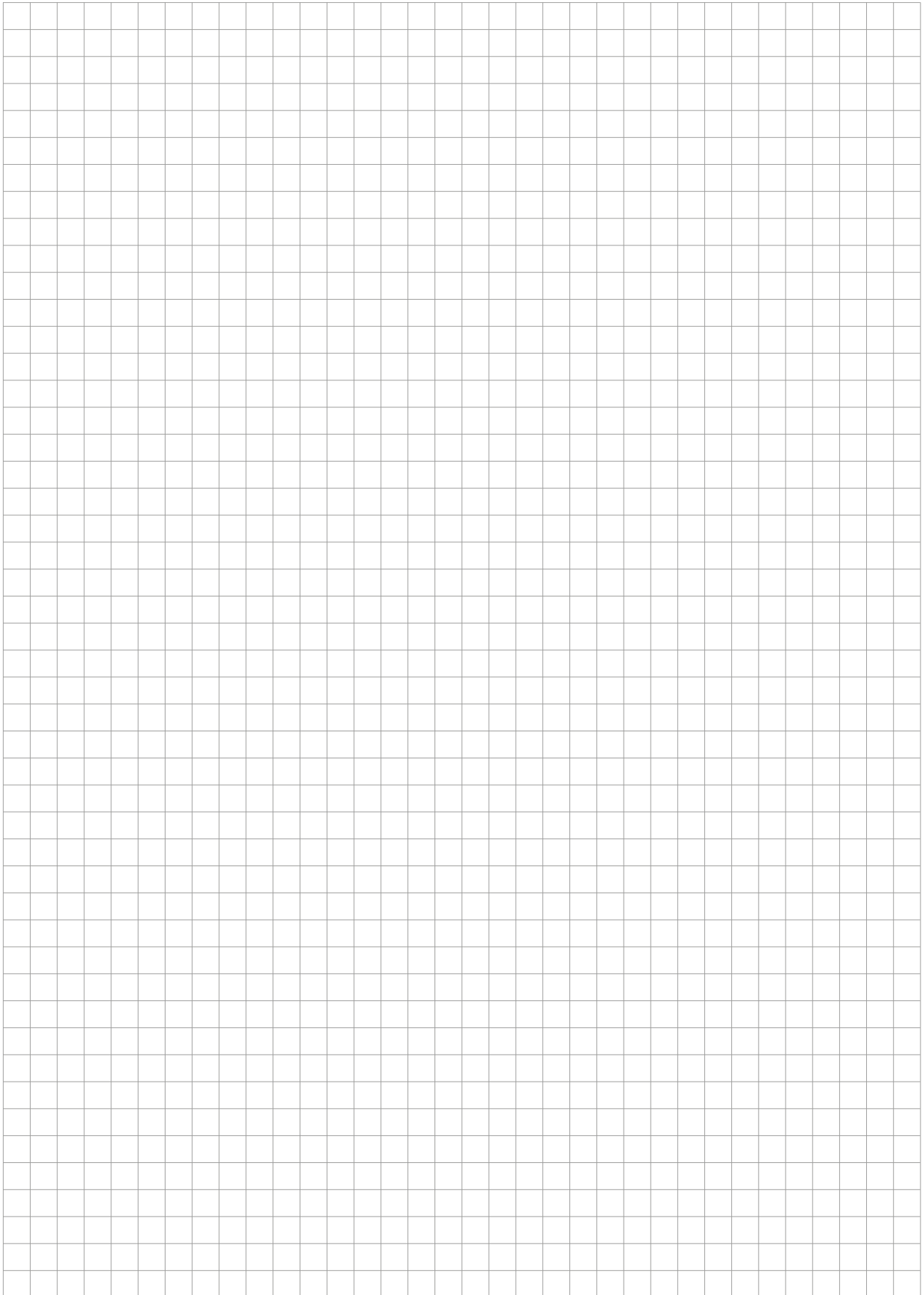
Picture = right hand cutting version

Part number	d	l ₁	h	l ₄	HWS
BU105.0500.02	.5	3.346	.433	1.969	105225
BU105.0625.02	.625	3.346	.546	1.969	105225
BU105.0750.02	.75	3.937	.671	2.165	105225

Dimensions in inch

Spare Parts

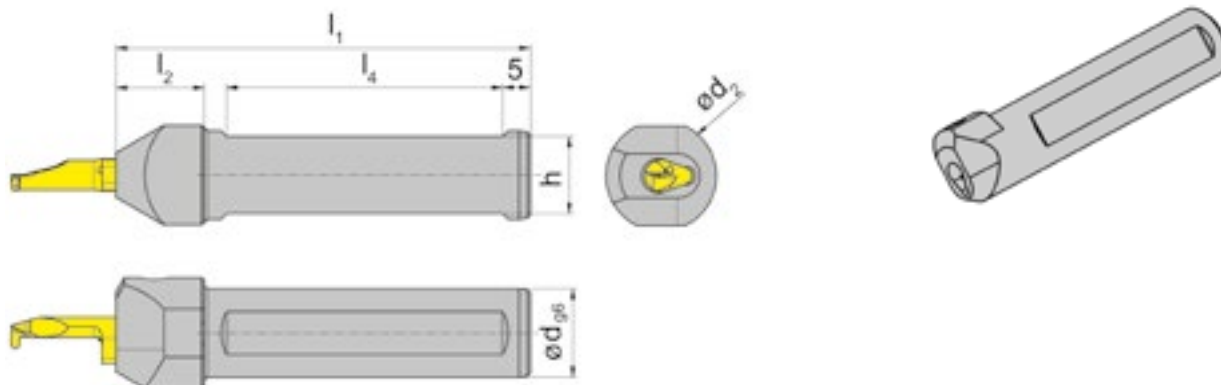
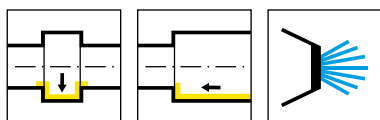
Toolholder	Clamping Screw	TORX PLUS® Wrench
BU105...	6.075T15P	T15PQ



109



Toolholder and Inserts



Picture = right hand cutting version

Part number	d	l_1	h	l_4	l_2	d_2	HWS
BU109.0500.01	.5	2.953	.421	1.969		.75	109140
BU109.0625.01	.625	2.953	.546	1.969		.75	109140
BU109.0750.01	.75	3.543	.671	2.165	-	-	109140
BU109.1000.01	1	3.937	.921	2.165	-	-	109140

Dimensions in inch

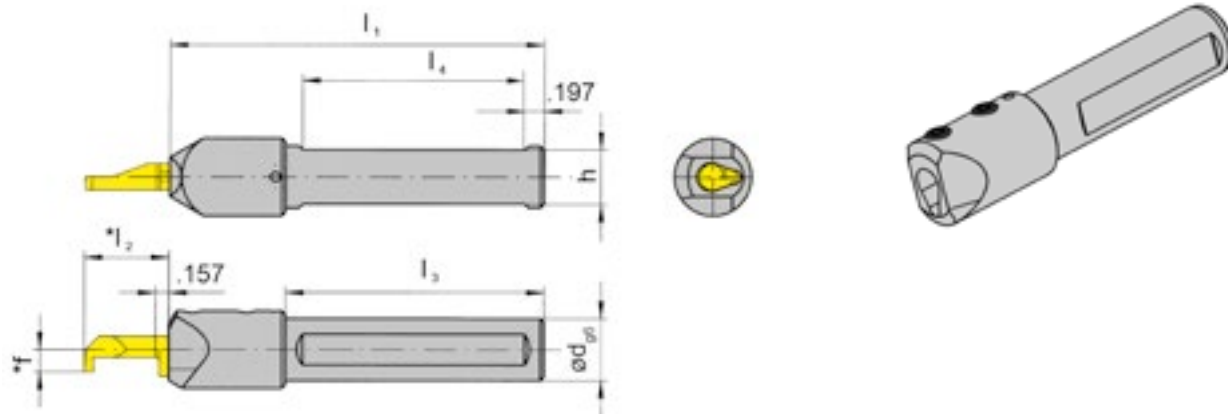
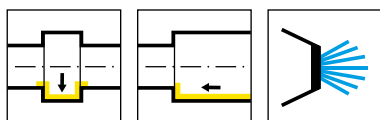
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU109...	6.075T15P	T15PQ

110



Toolholder and Inserts



R = right hand version shown

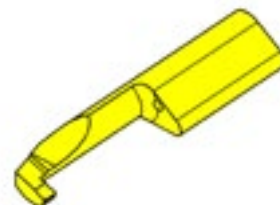
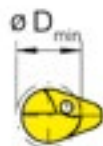
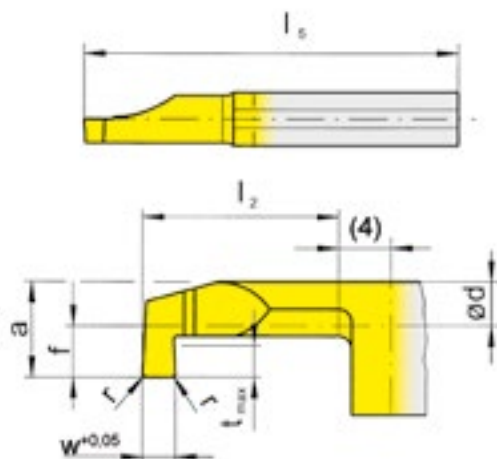
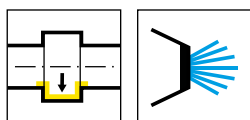
L = left hand version

Part number	d	l_1	l_3	h	l_4	HWS
BU110.0625.02	.625	3.996	2.815	.546	2.362	110260
BU110.0750.02	.768	3.996	-	.671	2.362	110260
BU110.1000.02	1	3.996	-	.921	2.362	110260

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU110...	6.075T15P	T15PQ



Carbide grades

R = right hand version shown

L = left hand version

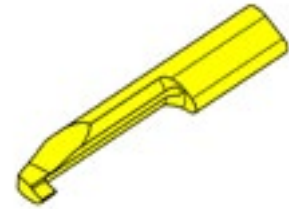
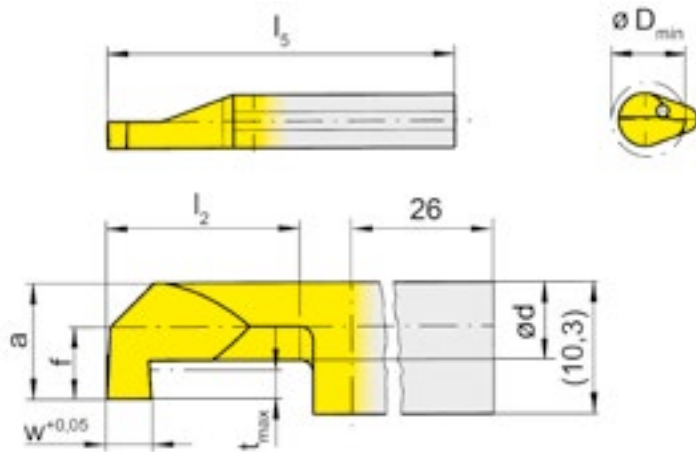
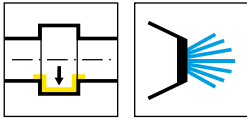
▲ on stock

△ 4 weeks

Part number	w	r	f	a	d	l_2	l_s	t_{max}	D_{min}	HIS	IG35	TI25
RU110.1208.3.8	.125	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.1208.7.8	.125	.008	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.2508.3.8	.25	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.2508.7.8	.25	.008	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.4608.3.8	.046	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.4608.7.8	.046	.008	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
RU110.6208.3.8	.062	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.6208.7.8	.062	.008	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.7808.3.8	.078	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.7808.7.8	.078	.008	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
RU110.9408.3.8	.094	.008	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.9408.7.8	.094	.008	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
LU110.1208.3.8	.125	.008	.157	.291	.165	.787	1.969	.11	.315	110260		△
LU110.6208.7.8	.062	.008	.157	.291	.165	1.575	2.756	.11	.315	110260		△

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version shown

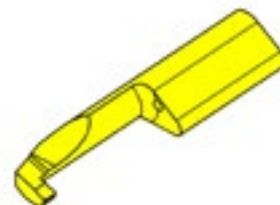
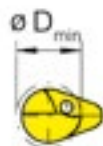
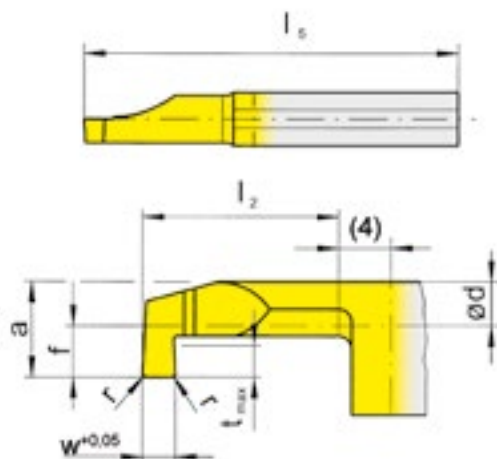
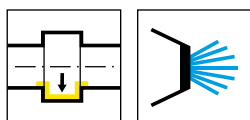
▲ on stock

△ 4 weeks

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	IG35	TI25
RU110.0046.3.8	.046	.157	.291	.165	.787	1.969	.11	.315	110260	▲	▲
RU110.0046.7.8	.046	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.0062.3.8	.062	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.0062.7.8	.062	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.0078.3.8	.078	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.0078.7.8	.078	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
RU110.0094.3.8	.094	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.0094.7.8	.094	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
RU110.0125.3.8	.125	.157	.283	.165	.787	1.969	.11	.315	110260		▲
RU110.0125.7.8	.125	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.0250.3.8	.25	.157	.283	.165	.787	1.969	.11	.315	110260		▲
RU110.0250.7.8	.25	.157	.283	.165	1.575	2.756	.11	.315	110260		▲
LU110.0062.3.8	.062	.157	.291	.165	.787	1.969	.11	.315	110260		△
LU110.0094.3.8	.094	.157	.291	.165	.787	1.969	.11	.315	110260		△

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version

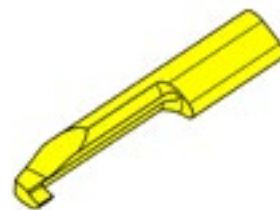
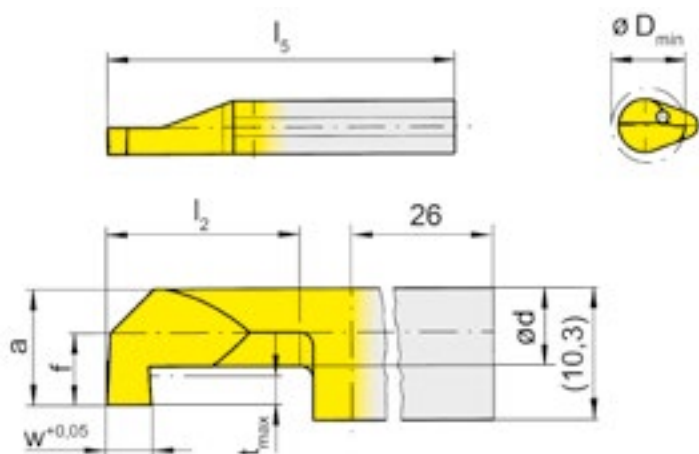
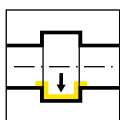
▲ on stock

△ 4 weeks

Part number	w	r	f	a	d	l_2	l_s	t_{max}	D_{min}	HIS	IG35	TI25
RU110.1208.3.0	.125	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.1208.7.0	.125	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.2508.3.0	.25	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.2508.7.0	.25	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.4608.3.0	.046	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.4608.7.0	.046	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.6208.3.0	.062	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.6208.7.0	.062	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.7808.3.0	.078	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.7808.7.0	.078	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.9408.3.0	.094	.008	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.9408.7.0	.094	.008	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
LU110.1208.3.0	.125	.008	.236	.37	.197	.787	1.969	.157	.394	110260		△
LU110.2508.3.0	.25	.008	.236	.37	.197	.787	1.969	.157	.394	110260		△
LU110.6208.3.0	.062	.008	.236	.37	.197	.787	1.969	.157	.394	110260		△

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version

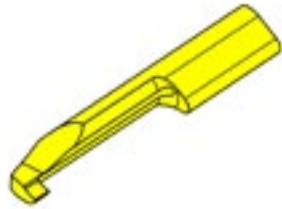
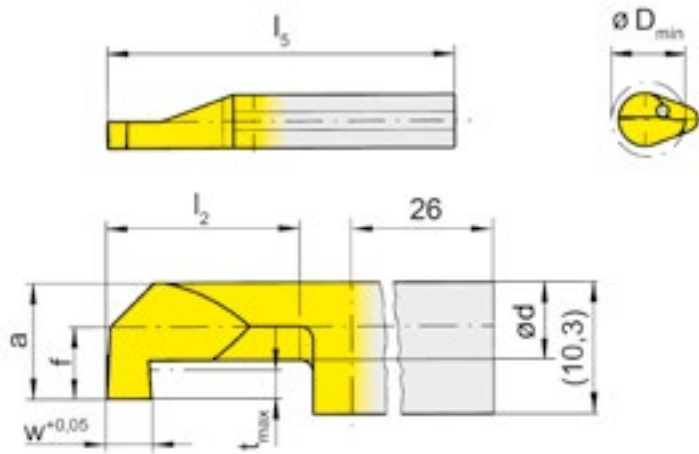
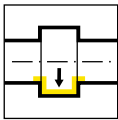
▲ on stock

△ 4 weeks

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		IG35	Ti25
RU110.0046.1.0	.046	.236	.37	.197	.394	1.575	.157	.394	110260	▲	▲	▲
RU110.0046.3.0	.046	.236	.37	.197	20	1.969	.157	.394	110260			▲
RU110.0062.1.0	.062	.236	.37	.197	.394	1.575	.157	.394	110260			▲
RU110.0062.3.0	.062	.236	.37	.197	.787	1.969	.157	.394	110260			▲
RU110.0078.1.0	.078	.236	.37	.197	.394	1.575	.157	.394	110260			▲
RU110.0078.3.0	.078	.236	.37	.197	.787	1.969	.157	.394	110260			▲
RU110.0094.1.0	.094	.236	.37	.197	.394	1.575	.157	.394	110260			▲
RU110.0094.3.0	.094	.236	.37	.197	.787	1.969	.157	.394	110260			▲
RU110.0125.1.0	.125	.236	.37	.197	.394	1.575	.157	.394	110260			▲
RU110.0125.3.0	.125	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲	▲
RU110.0250.3.0	.25	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲	▲
LU110.0062.1.0	.062	.236	.37	.197	.394	1.575	.157	.394	110260			△
LU110.0078.1.0	.078	.236	.37	.197	.394	1.575	.157	.394	110260			△
LU110.0094.3.0	.094	.236	.37	.197	.787	1.969	.157	.394	110260			△

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version

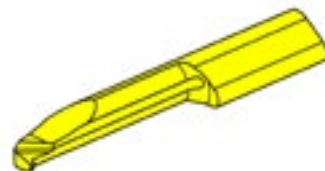
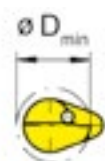
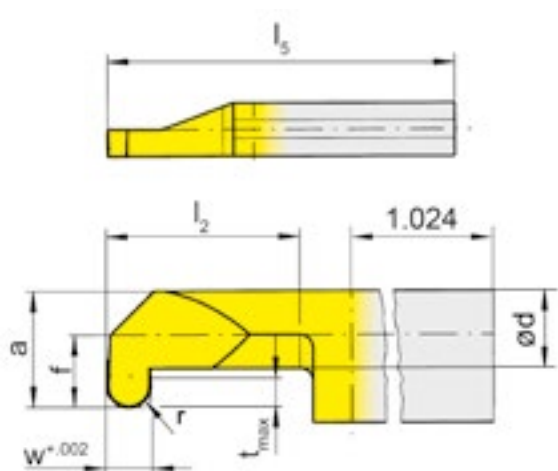
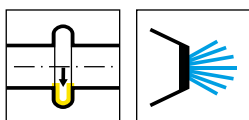
▲ on stock

Δ 4 weeks

Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		IG35	T125
RU110.0046.5.0	.046	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0046.7.0	.046	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
RU110.0062.5.0	.062	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0062.7.0	.062	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
RU110.0078.5.0	.078	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0078.7.0	.078	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
RU110.0094.5.0	.094	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0094.7.0	.094	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
RU110.0125.5.0	.125	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0125.7.0	.125	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
RU110.0250.5.0	.25	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	▲
RU110.0250.7.0	.25	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲	▲
LU110.0094.5.0	.094	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲	Δ

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version

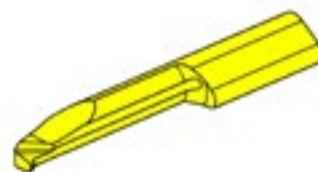
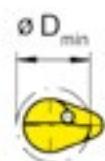
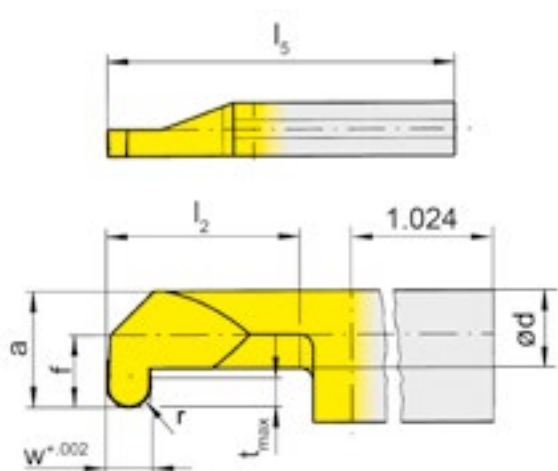
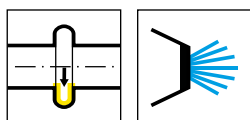
▲ on stock

Δ 4 weeks

Part number	w	r	f	a	d	l ₂	l ₅	t _{max}	D _{min}	HIS	IG35	TI25
RU110.3162.1.8	.062	.031	.157	.291	.165	.394	1.575	.11	.315	110260		▲
RU110.3162.3.8	.062	.031	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.3162.5.8	.062	.031	.157	.291	.165	1.181	2.362	.11	.315	110260	▲	▲
RU110.3162.7.8	.062	.031	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
RU110.4794.1.8	.094	.047	.157	.291	.165	.787	1.575	.11	.315	110260		▲
RU110.4794.3.8	.094	.047	.157	.291	.165	.787	1.969	.11	.315	110260	▲	▲
RU110.4794.5.8	.094	.047	.157	.291	.165	1.181	2.362	.11	.315	110260	▲	▲
RU110.4794.7.8	.094	.047	.157	.291	.165	1.575	2.756	.11	.315	110260	▲	▲
RU110.6212.1.8	.125	.047	.157	.291	.165	.394	1.575	.11	.315	110260	▲	▲
RU110.6212.3.8	.125	.063	.157	.291	.165	.787	1.969	.11	.315	110260		▲
RU110.6212.5.8	.125	.063	.157	.291	.165	1.181	2.362	.11	.315	110260		▲
RU110.6212.7.8	.125	.063	.157	.291	.165	1.575	2.756	.11	.315	110260		▲
LU110.3162.1.8	.062	.031	.157	.291	.165	.394	1.575	.11	.315	110260		Δ
LU110.3162.3.8	.062	.031	.157	.291	.165	.787	1.969	.11	.315	110260		Δ
LU110.4794.1.8	.094	.047	.157	.291	.165	.787	1.575	.11	.315	110260		Δ
LU110.4794.3.8	.094	.047	.157	.291	.165	.787	1.969	.11	.315	110260		Δ
LU110.6212.1.8	.125	.047	.157	.291	.165	.394	1.575	.11	.315	110260		Δ

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



Carbide grades

R = right hand version shown

L = left hand version

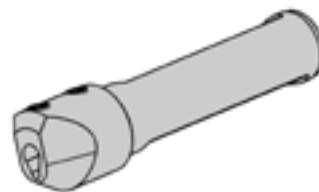
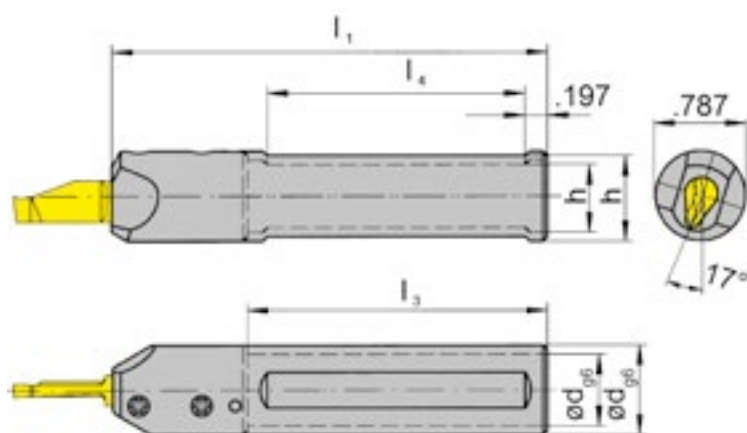
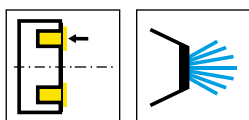
▲ on stock

△ 4 weeks

Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	IG35	TI25
RU110.3162.1.0	.062	.031	.236	.37	.197	.394	1.575	.157	.394	110260		▲
RU110.3162.3.0	.062	.031	.236	.37	.197	.787	1.969	.157	.394	110260		▲
RU110.3162.5.0	.062	.031	.236	.37	.197	1.181	2.362	.157	.394	110260		▲
RU110.3162.7.0	.062	.031	.236	.37	.197	1.575	2.756	.157	.394	110260		▲
RU110.4794.1.0	.094	.047	.236	.37	.197	.394	1.575	.157	.394	110260		▲
RU110.4794.3.0	.094	.047	.236	.37	.197	.787	1.969	.157	.394	110260	▲	▲
RU110.4794.5.0	.094	.047	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲
RU110.4794.7.0	.094	.047	.236	.37	.197	1.575	2.756	.157	.394	110260	▲	▲
RU110.6212.1.0	.125	.063	.236	.37	.197	.394	1.575	.157	.394	110260	▲	▲
RU110.6212.3.0	.125	.063	.236	.37	.197	.787	1.969	.157	.394	110260		▲
RU110.6212.5.0	.125	.063	.236	.37	.197	1.181	2.362	.157	.394	110260	▲	▲
RU110.6212.7.0	.125	.063	.236	.37	.197	1.575	2.756	.157	.394	110260		▲
LU110.3162.1.0	.062	.031	.236	.37	.197	.394	1.575	.157	.394	110260		△
LU110.3162.5.0	.062	.031	.236	.37	.197	1.181	2.362	.157	.394	110260		△
LU110.4794.3.0	.094	.047	.236	.37	.197	.787	1.969	.157	.394	110260		△
LU110.4794.5.0	.094	.047	.236	.37	.197	1.181	2.362	.157	.394	110260		△
LU110.4794.7.0	.094	.047	.236	.37	.197	1.575	2.756	.157	.394	110260		△

Dimensions in inch

P	-	●
M	●	●
K	-	●
N	-	●
S	●	●
H	-	-



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₃	h	l ₄	HWS
RB U110.0625.16.2	.625	3.996	2.756	.546	2.362	110260R
RB U110.0750.16.2	.75	3.996	-	.671	2.362	110260R
LB U110.0625.16.2	.625	3.996	2.756	.546	2.362	110260L
LB U110.0750.16.2	.75	3.996	-	.671	2.362	110260L

Dimensions in inch

Spare Parts

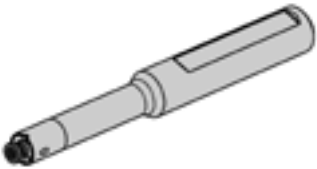
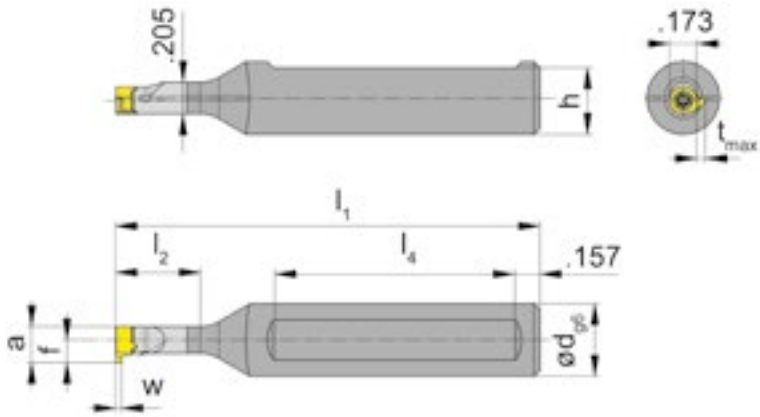
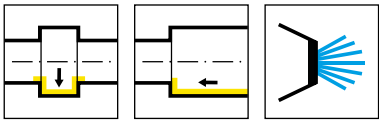
Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU110...	6.075T15P	T15PQ

106



Toolholder and Inserts

B



R = right hand version shown

L = left hand version

Part number	d	l ₁	l ₂	h	l ₄	HWS
RBU106.0500.01	.5	2.756	.551	.461	1.575	304044R
RBU106.0500.02	.5	3.15	.787	.461	1.575	304044R
RBU106.0500.03	.5	3.543	1.024	.461	1.772	304044R
LBU106.0500.01	.5	2.756	.551	.461	1.575	304044L
LBU106.0500.02	.5	3.15	.787	.461	1.575	304044L
LBU106.0500.03	.5	3.543	1.024	.461	1.772	304044L

w, a, tmax and f see inserts

Spare Parts

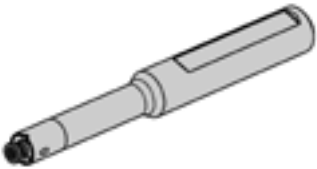
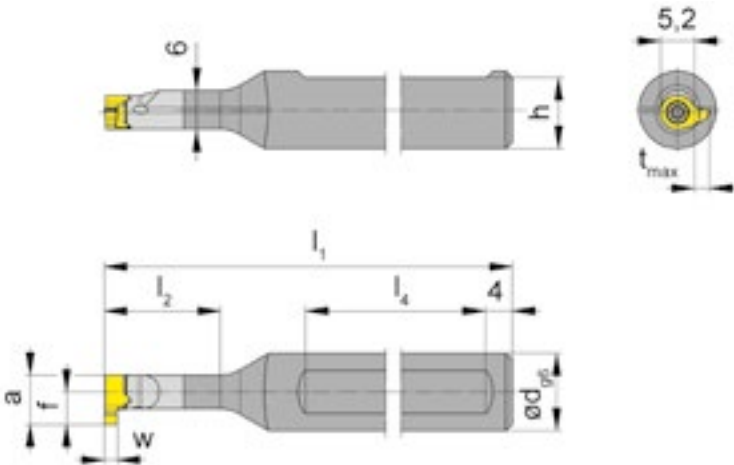
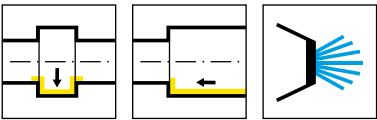
Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU106...	1.8.4T6EP	T6PL

107



Toolholder and Inserts

B



R = right hand version shown

L = left hand version

Part number	d	l_1	l_2	h	l_4	HWS
RBU107.0500.01	.5	3.15	.709	.461	1.772	107052R
RBU107.0500.02	.5	3.543	1.024	.461	1.772	107052R
RBU107.0500.03	.5	3.937	1.417	.461	1.772	107052R
LBU107.0500.01	.5	3.15	.709	.461	1.772	107052L
LBU107.0500.02	.5	3.543	1.024	.461	1.772	107052L
LBU107.0500.03	.5	3.937	1.417	.461	1.772	107052L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

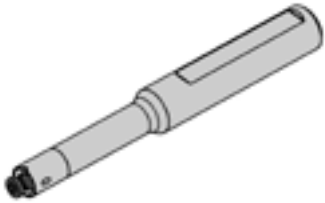
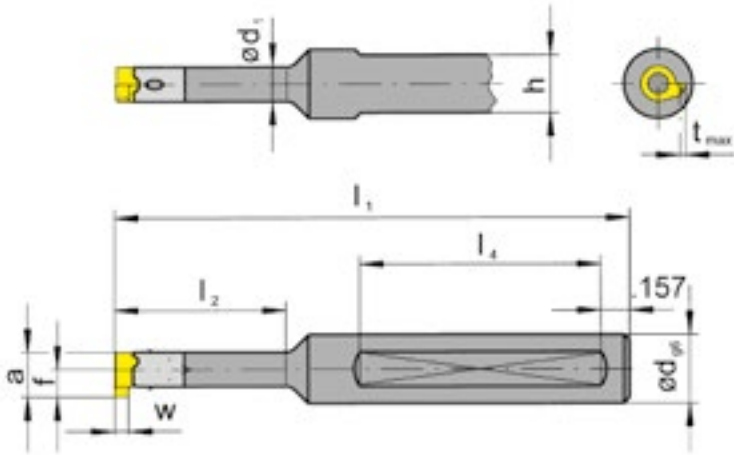
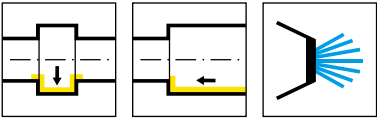
Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU107...	2.2.5T7EP	T7PL

108



Toolholder and Inserts

B



R = right hand version shown

L = left hand version

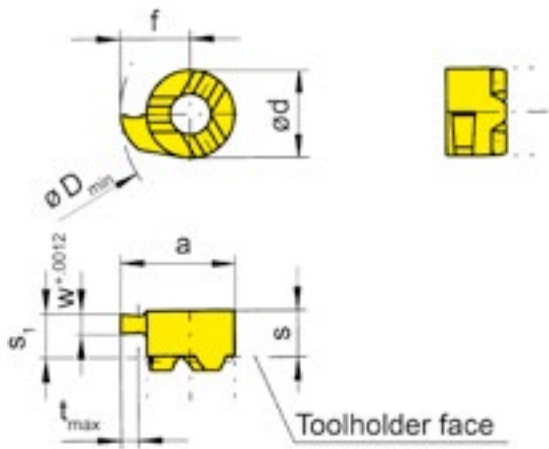
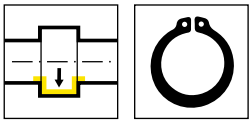
Part number	d	l ₁	l ₂	h	l ₄	d ₁	HWS
BU108.ST05.00	.5	2.756	.492	.46	1.575	.236	306060R • 306060L
BU108.0500.01	.5	3.15	.827	.46	1.772	.236	306060R • 306060L
BU108.0500.02	.5	3.543	1.181	.46	1.772	.236	306060R • 306060L
BU108.0500.03	.5	3.937	1.654	.46	1.772	.236	306060R • 306060L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU108...	2.6.5T8EP	T8PL

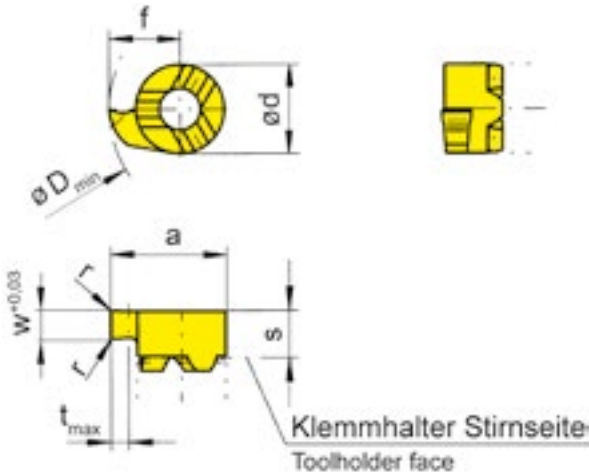
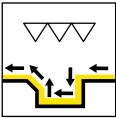


Carbide grades

R = right hand version shown L = left hand version ▲ on stock Δ 4 weeks

Part number	w	s	f	a	d	t _{max}	D _{min}	HIS	MG12	TH35	TN35
RU108.0031.00	.031	.142	.189	.307	.236	.039	.315	306060R	Δ	▲	▲
RU108.0039.00	.039	.142	.189	.307	.236	.039	.315	306060R		▲	▲
LU108.0031.00	.031	.142	.189	.307	.236	.039	.315	306060L			▲
not face cutting, limited depth of cut									P	o	•
Dimensions in inch									M	-	•
									K	-	•
									N	-	•
									S	-	•
									H	-	-

B



Carbide grades

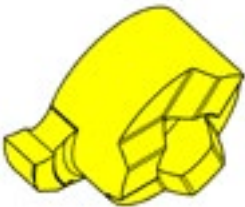
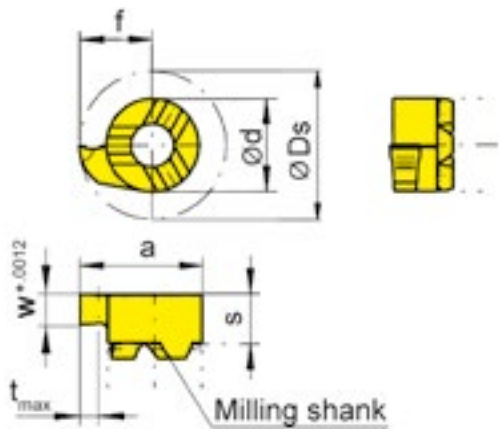
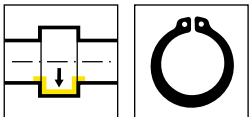
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	TH35	TI25	TN35
RU108.0031.08	.031	.126	.189	.307	.008	.236	.039	.315	306060R		▲	▲		▲
RU108.0046.08	.046	.126	.189	.307	.008	.236	.039	.315	306060R			▲		▲
RU108.0062.08	.062	.126	.189	.307	.008	.236	.039	.315	306060R			▲	▲	▲
RU108.0078.08	.078	.126	.189	.307	.008	.236	.039	.315	306060R			▲		▲
LU108.0046.08	.046	.126	.189	.307	.008	.236	.039	.315	306060L					▲
LU108.0062.08	.062	.126	.189	.307	.008	.236	.039	.315	306060L					▲
LU108.0078.08	.078	.126	.189	.307	.008	.236	.039	.315	306060L					▲
Dimensions in inch											P	o	•	•
											M	-	•	•
											K	-	•	•
											N	-	•	•
											S	-	•	•
											H	-	-	-

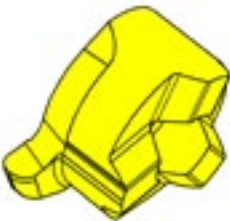
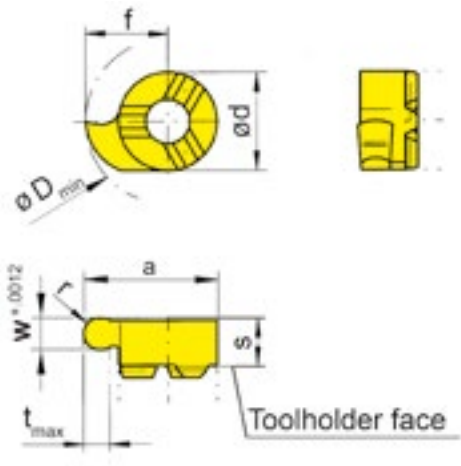
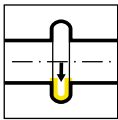


Carbide grades

R = right hand version shown L = left hand version ▲ on stock Δ 4 weeks

Part number	w	s	f	Ds	a	d	t _{max}	D _{min}	Z	HIS		MG12	TH35	TN35
RU108.0046.00	.047	.126	.189	.378	.307	.236	.039	.315	1	306060R		▲	▲	▲
RU108.0056.00	.056	.126	.189	.378	.307	.236	.039	.315	1	306060R			▲	▲
RU108.0062.00	.063	.126	.189	.378	.307	.236	.039	.315	1	306060R		▲	▲	▲
RU108.0078.00	.079	.126	.189	.378	.307	.236	.039	.315	1	306060R			▲	▲
LU108.0056.00	.056	.126	.189	.378	.307	.236	.039	.315	1	306060L				▲
LU108.0062.00	.063	.126	.189	.378	.307	.236	.039	.315	1	306060L				▲
LU108.0078.00	.079	.126	.189	.378	.307	.236	.039	.315	1	306060L				▲
Dimensions in inch											P	O	●	●
											M	-	●	●
											K	-	●	●
											N	-	●	●
											S	-	●	●
											H	-	-	-

B



Carbide grades

R = right hand version shown L = left hand version ▲ on stock Δ 4 weeks

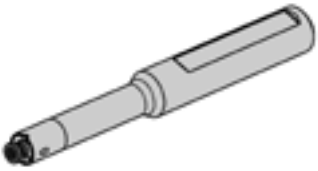
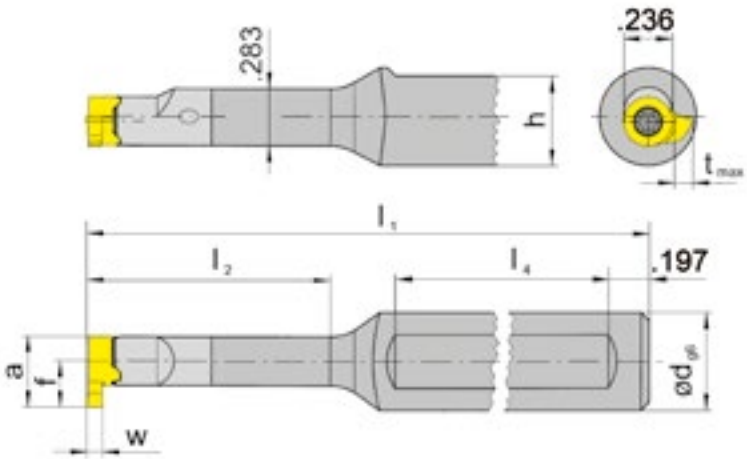
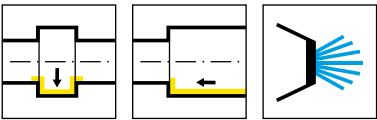
Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	IG35	TF45	TH35	TN35
RU108.0015.31	.032	.126	.189	.307	.016	.236	.039	.315	306060R					▲	▲
RU108.0023.46	.047	.126	.189	.307	.023	.236	.039	.315	306060R					▲	▲
RU108.0031.62	.063	.126	.189	.307	.032	.236	.039	.315	306060R		▲			▲	▲
RU108.0039.78	.079	.126	.189	.307	.039	.236	.039	.315	306060R			▲	▲	▲	▲
LU108.0015.31	.032	.126	.189	.307	.016	.236	.039	.315	306060L					▲	▲
LU108.0023.46	.047	.126	.189	.307	.023	.236	.039	.315	306060L					▲	▲
LU108.0031.62	.063	.126	.189	.307	.032	.236	.039	.315	306060L					▲	▲
LU108.0039.78	.079	.126	.189	.307	.039	.236	.039	.315	306060L					▲	▲
Dimensions in inch											P	O	-	●	●
											M	-	●	●	●
											K	-	-	●	●
											N	-	-	●	●
											S	-	●	●	●
											H	-	-	-	-

10P



Toolholders

B



R = right hand version shown

L = left hand version

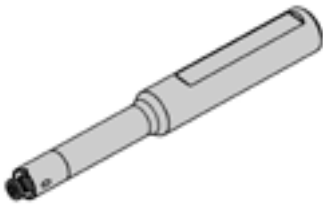
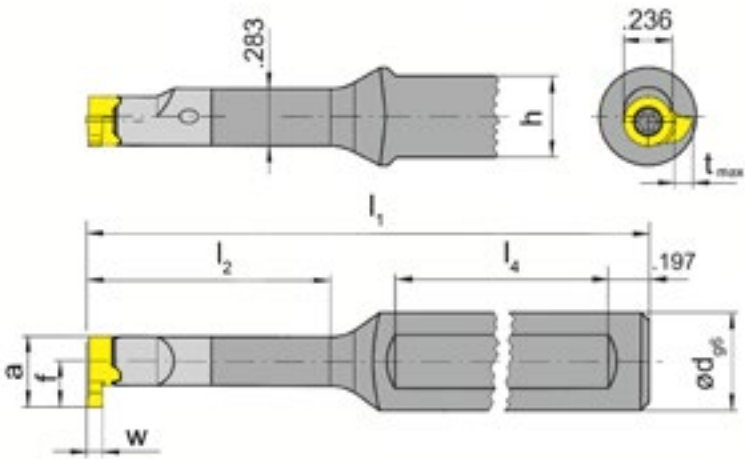
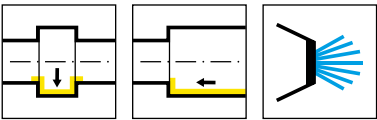
Part number	d	l ₁	l ₂	h	l ₄	HWS
RB ^U 10P.0500.00	.5	2.756	.492	.461	1.575	10P060R
RB ^U 10P.0500.01	.5	3.15	.827	.461	1.772	10P060R
RB ^U 10P.0500.02	.5	3.543	1.181	.461	1.772	10P060R
RB ^U 10P.0500.03	.5	3.937	1.654	.461	1.772	10P060R
LB ^U 10P.0500.00	.5	2.756	.492	.461	1.575	10P060L
LB ^U 10P.0500.01	.5	3.15	.827	.461	1.772	10P060L
LB ^U 10P.0500.02	.5	3.543	1.181	.461	1.772	10P060L
LB ^U 10P.0500.03	.5	3.937	1.654	.461	1.772	10P060L

w, a, t_{max} and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU10P...	2.6.5T8EP	T8PL



R = right hand version shown

L = left hand version

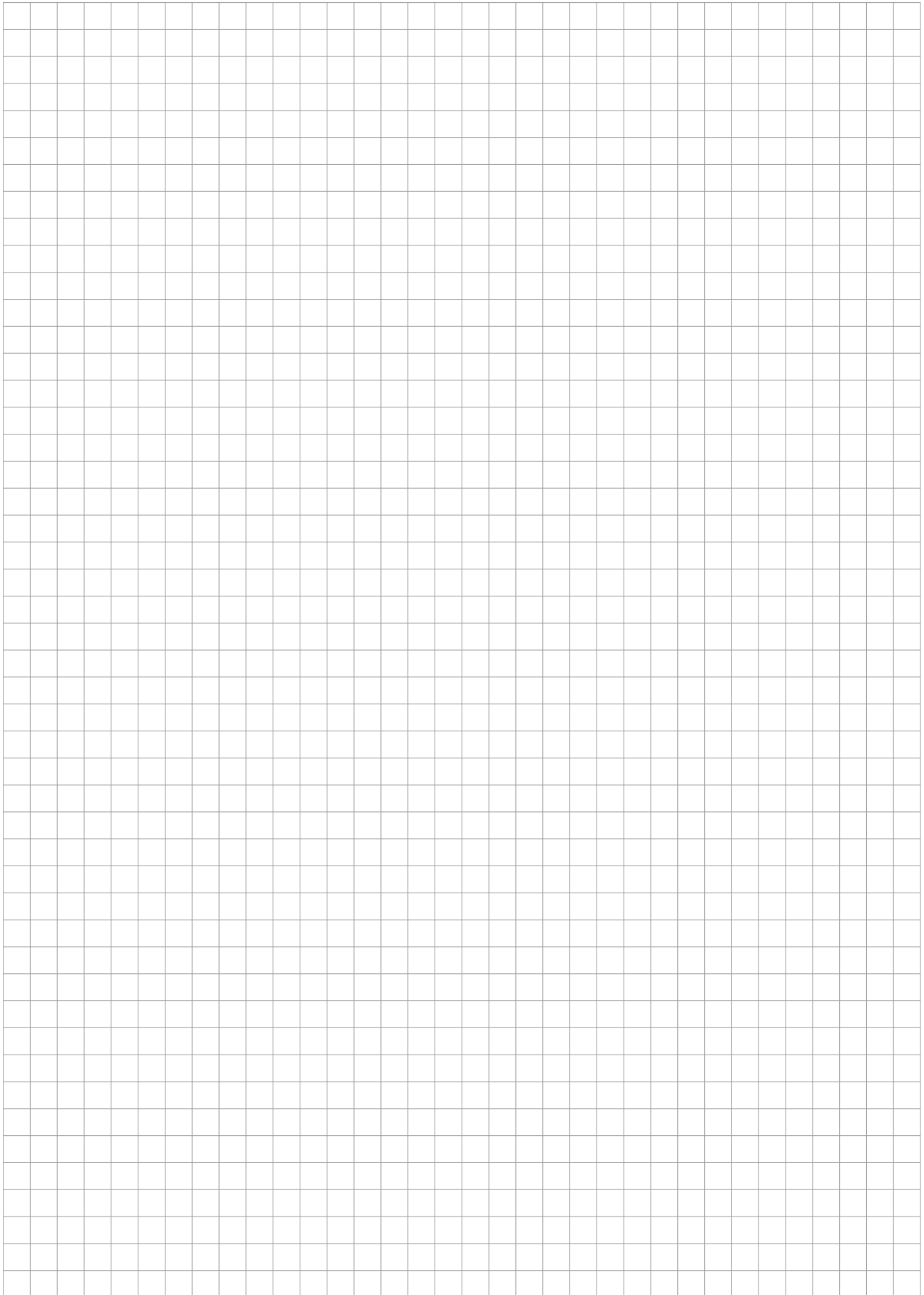
Part number	d	l_1	l_2	h	l_4	HWS
RBU10P.0500.2.00	.5	2.756	.492	.461	1.575	10P060R
RBU10P.0500.2.01	.5	3.15	.827	.461	1.772	10P060R
RBU10P.0500.2.02	.5	3.543	1.181	.461	1.772	10P060R
RBU10P.0500.2.03	.5	3.937	1.654	.461	1.772	10P060R
LBU10P.0500.2.00	.5	2.756	.492	.461	1.575	10P060L
LBU10P.0500.2.01	.5	3.15	.827	.461	1.772	10P060L
LBU10P.0500.2.02	.5	3.543	1.181	.461	1.772	10P060L
LBU10P.0500.2.03	.5	3.937	1.654	.461	1.772	10P060L

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU10P...	2.6.5T8EP	T8PL

B

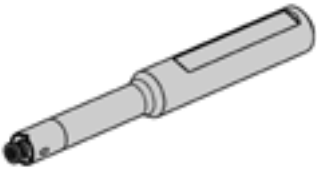
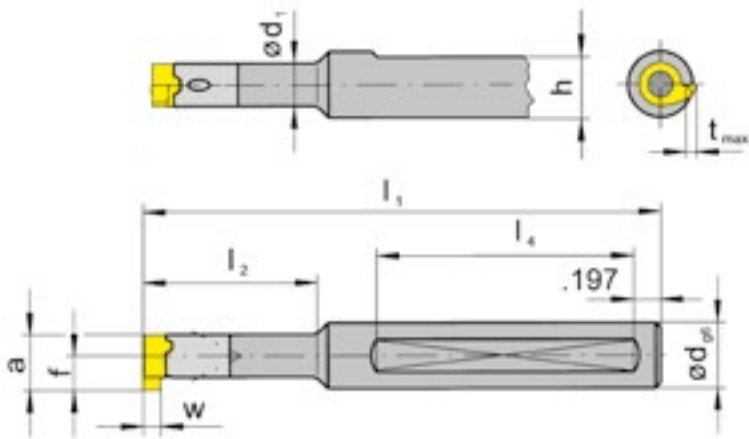
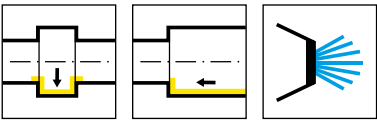


111



Toolholders and Inserts

B



Picture = right hand cutting version

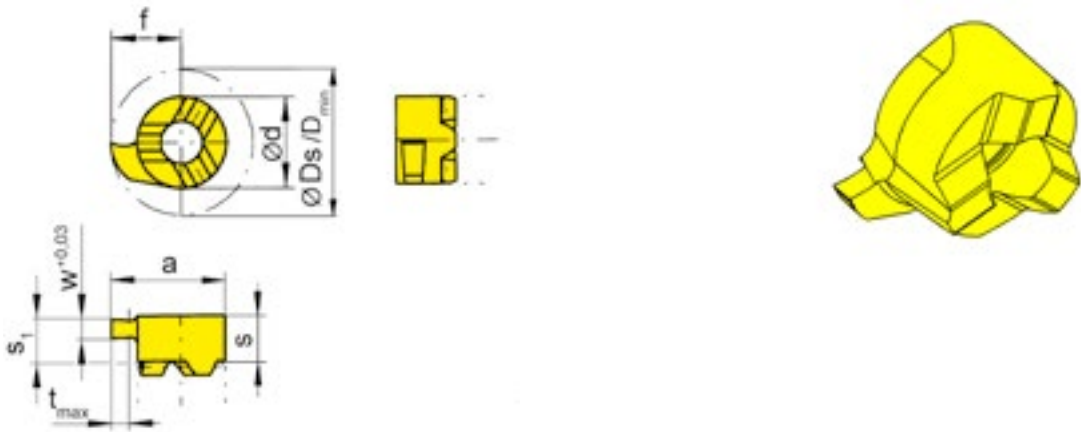
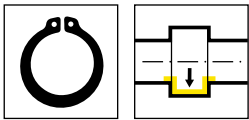
Part number	d	l ₁	l ₂	h	l ₄	d ₁	HWS
BU111.ST05.00	.5	2.953	.65	.46	1.575	.315	308080R • 308080L
BU111.0500.01	.5	3.74	1.142	.461	1.969	.315	308080R • 308080L
BU111.0500.02	.5	4.331	1.654	.461	1.969	.315	308080R • 308080L
BU111.0500.03	.5	4.724	2.205	.461	1.969	.315	308080R • 308080L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU111...	3.5.12T10EP	T10PL

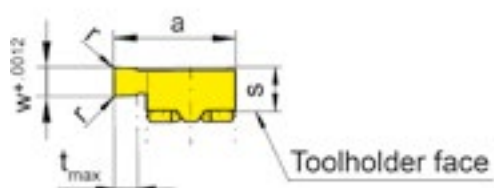
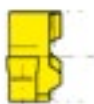
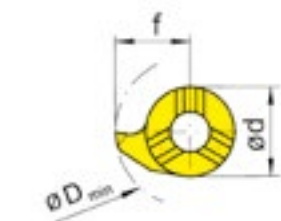
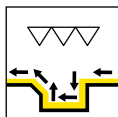


Carbide grades

R = right hand version shown L = left hand version ▲ on stock Δ 4 weeks

Part number	w	f	Ds	d	s	s ₁	a	t _{max}	D _{min}	Z	HIS		MG12	IG35	TH35	TN35
RU111.0031.00	.03	.264	.528	.315	.163	.156	.421	.047	.433	1	308080R				▲	▲
RU111.0039.00	.038	.264	.528	.315	.163	.156	.421	.059	.433	1	308080R	▲	▲	▲	▲	▲
LU111.0031.00	.03	.264	.528	.315	.163	.156	.421	.047	.433	1	308080L				▲	▲
LU111.0039.00	.038	.264	.528	.315	.163	.156	.421	.059	.433	1	308080L				▲	▲
not face cutting, limited depth of cut												P	o	-	•	•
Dimensions in inch												M	-	•	•	•
												K	-	-	•	•
												N	-	-	•	•
												S	-	•	•	•
												H	-	-	-	-

B



Carbide grades

R = right hand version shown

L = left hand version

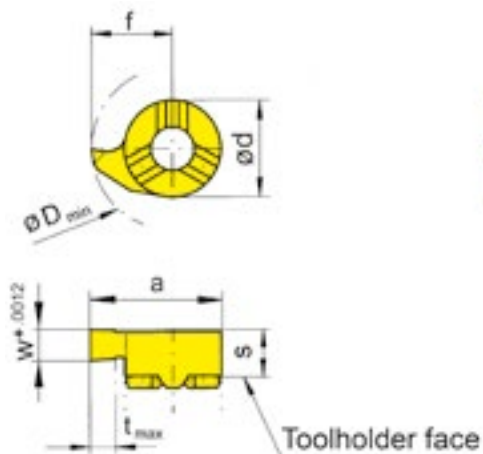
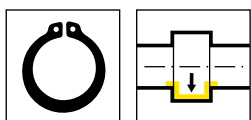
▲ on stock

△ 4 weeks

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS	MG12	IG35	TF45	TH35	TN35
RU111.0031.08	.032	.156	.264	.421	.008	.315	.091	.433	308080R				▲	▲
RU111.0046.08	.047	.156	.264	.421	.008	.315	.091	.433	308080R		▲		▲	▲
RU111.0062.08	.063	.156	.264	.421	.008	.315	.091	.433	308080R	△		▲	▲	▲
RU111.0078.08	.079	.156	.264	.421	.008	.315	.091	.433	308080R		▲	△	▲	▲
RU111.0094.08	.095	.156	.264	.421	.008	.315	.091	.433	308080R	△		△	▲	▲
RU111.0125.08	.126	.156	.264	.421	.008	.315	.091	.433	308080R		▲		▲	▲
RU111.0046.16	.047	.156	.264	.421	.016	.315	.091	.433	308080R				▲	▲
RU111.0062.16	.063	.156	.264	.421	.016	.315	.091	.433	308080R				▲	▲
RU111.0078.16	.079	.156	.264	.421	.016	.315	.091	.433	308080R				▲	▲
RU111.0094.16	.095	.156	.264	.421	.016	.315	.091	.433	308080R				▲	▲
RU111.0125.16	.126	.156	.264	.421	.016	.315	.091	.433	308080R				▲	△
LU111.0031.08	.032	.156	.264	.421	.008	.315	.091	.433	308080L					▲
LU111.0046.08	.047	.156	.264	.421	.008	.315	.091	.433	308080L					▲
LU111.0062.08	.063	.156	.264	.421	.008	.315	.091	.433	308080L					▲
LU111.0078.08	.079	.156	.264	.421	.008	.315	.091	.433	308080L					▲
LU111.0094.08	.095	.156	.264	.421	.008	.315	.091	.433	308080L		▲			▲
LU111.0062.16	.063	.156	.264	.421	.016	.315	.091	.433	308080L					▲
LU111.0094.16	.095	.156	.264	.421	.016	.315	.091	.433	308080L					△

Dimensions in inch

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



Carbide grades

R = right hand version shown

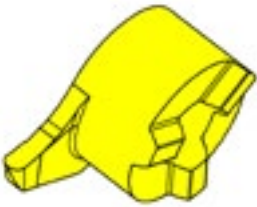
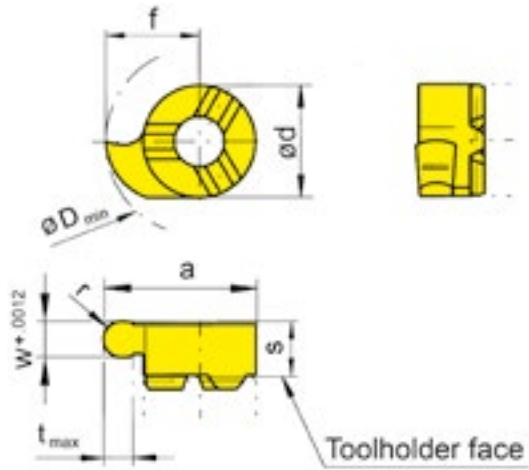
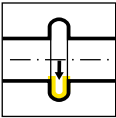
L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	f	Ds	d	a	t _{max}	D _{min}	Z	HIS		MG12	TF45	TH35	TI25	TN35
RU111.0046.00	.047	.264	.528	.315	.421	.091	.433	1	308080R		▲		▲	Δ	▲
RU111.0056.00	.056	.264	.528	.315	.421	.091	.433	1	308080R		▲		▲		▲
RU111.0062.00	.063	.264	.528	.315	.421	.091	.433	1	308080R		▲	▲	▲	Δ	▲
RU111.0078.00	.079	.264	.528	.315	.421	.091	.433	1	308080R				▲		▲
RU111.0094.00	.095	.264	.528	.315	.421	.091	.433	1	308080R		Δ		▲		▲
RU111.0125.00	.126	.264	.528	.315	.421	.091	.433	-	308080R				▲		▲
LU111.0046.00	.047	.264	.528	.315	.421	.091	.433	1	308080L						▲
LU111.0056.00	.056	.264	.528	.315	.421	.091	.433	1	308080L						▲
LU111.0062.00	.063	.264	.528	.315	.421	.091	.433	1	308080L						▲
LU111.0078.00	.079	.264	.528	.315	.421	.091	.433	1	308080L						▲
LU111.0094.00	.095	.264	.528	.315	.421	.091	.433	1	308080L						▲
LU111.0125.00	.126	.264	.528	.315	.421	.091	.433	-	308080L						▲
Dimensions in inch										P	o	•	•	•	•
										M	-	•	•	•	•
										K	-	•	•	•	•
										N	-	•	•	•	•
										S	-	•	•	•	•
										H	-	-	-	-	-

B



Carbide grades

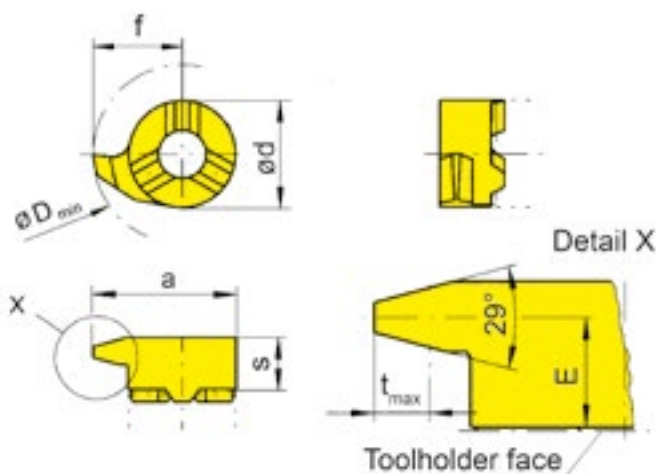
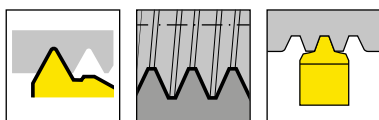
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	Ds	a	r	d	t _{max}	D _{min}	HIS		MG12	IG35	TF45	TH35	TN35
RU111.0015.31	.032	.156	.264	.528	.421	.016	.315	.091	.433	308080R					▲	▲
RU111.0023.46	.047	.156	.264	.528	.421	.024	.315	.091	.433	308080R		▲	▲		▲	▲
RU111.0031.62	.063	.156	.264	.528	.421	.031	.315	.091	.433	308080R		▲		Δ	▲	▲
RU111.0039.78	.079	.156	.264	.528	.421	.039	.315	.091	.433	308080R					▲	▲
RU111.0047.94	.095	.156	.264	.528	.421	.047	.315	.091	.433	308080R		▲			▲	▲
LU111.0015.31	.032	.156	.264	.528	.421	.016	.315	.091	.433	308080L			▲			▲
LU111.0023.46	.047	.156	.264	.528	.421	.024	.315	.091	.433	308080L						▲
LU111.0031.62	.063	.156	.264	.528	.421	.031	.315	.091	.433	308080L						▲
LU111.0039.78	.079	.156	.264	.528	.421	.039	.315	.091	.433	308080L						▲
LU111.0047.94	.095	.156	.264	.528	.421	.047	.315	.091	.433	308080L						▲
Dimensions in inch											P	o	-	•	•	•
											M	-	•	•	•	•
											K	-	-	•	•	•
											N	-	-	•	•	•
											S	-	•	•	•	•
											H	-	-	-	-	-



Carbide grades

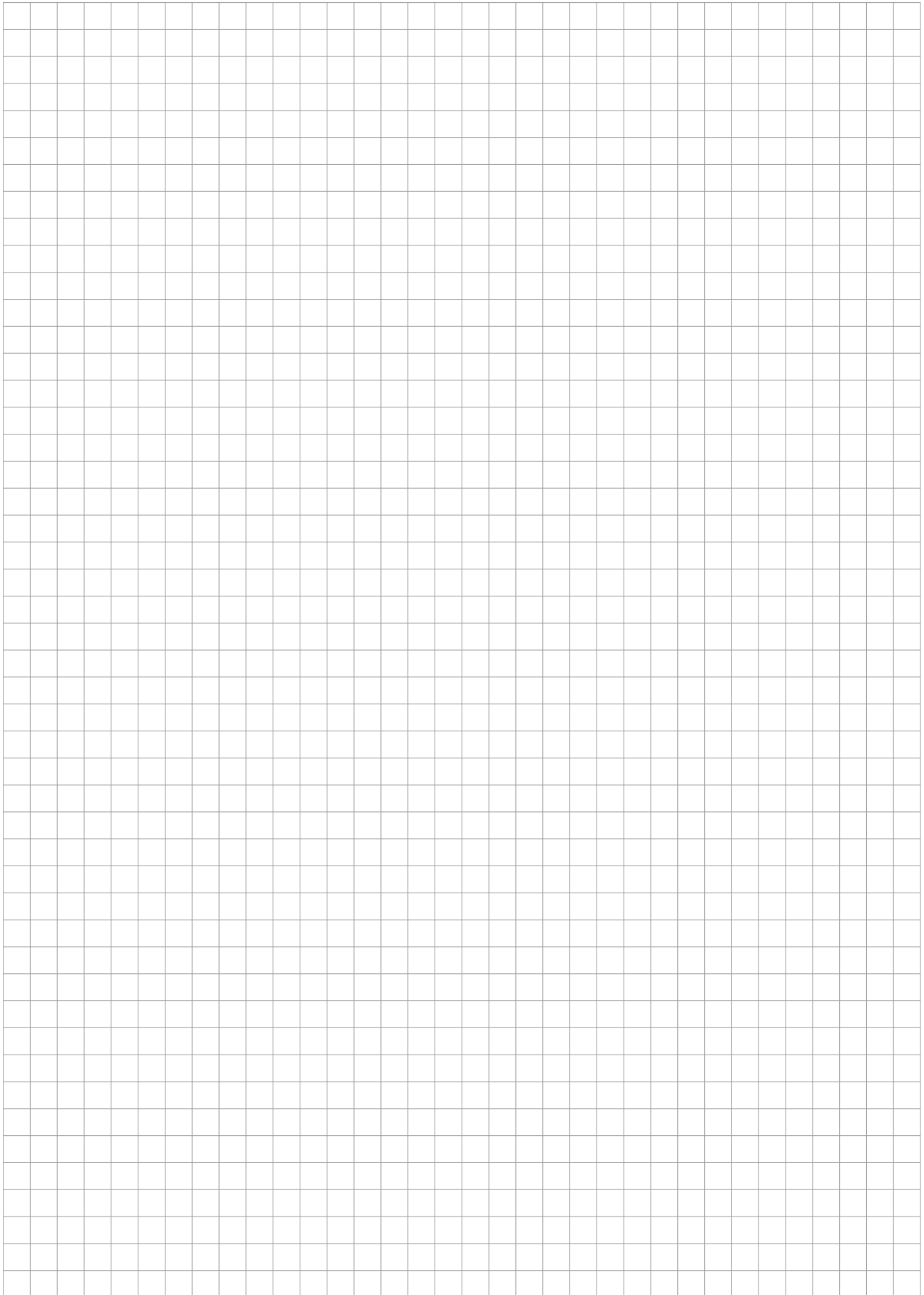
R = right hand version shown

▲ on stock

Δ 4 weeks

Part number	E	f	a	d	s	D _{min}	HIS		MG12	IG35	TH35	TN35
RU111.AC06.01	.106	.264	.057	.315	.163	.433	308080R				▲	▲
RU111.AC08.01	.118	.264	.041	.315	.163	.433	308080R	▲	▲	▲	▲	▲
RU111.SA05.01	.15	.402	.618	.433	.217	.63	308080R			▲	▲	Δ
RU111.SA06.01	.157	.382	.618	.433	.217	.63	308080R			▲	▲	▲
RU111.SA08.01	.112	.264	.048	.315	.163	.433	308080R			▲	▲	▲
RU111.SA10.01	.126	.264	.037	.315	.163	.433	308080R			▲	▲	▲
LU111.AC06.01	.106	.264	.057	.315	.163	.433	308080L				▲	▲
LU111.AC08.01	.118	.264	.041	.315	.163	.433	308080L	▲			▲	▲
LU111.SA06.01	.157	.382	.618	.433	.217	.63	308080L				Δ	
LU111.SA08.01	.112	.264	.048	.315	.163	.433	308080L				▲	▲
LU111.SA10.01	.126	.264	.037	.315	.163	.433	308080L				▲	▲
Dimensions in inch								P	o	-	•	•
								M	-	•	•	•
								K	-	-	•	•
								N	-	-	•	•
								S	-	•	•	•
								H	-	-	-	-

B

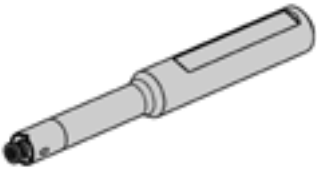
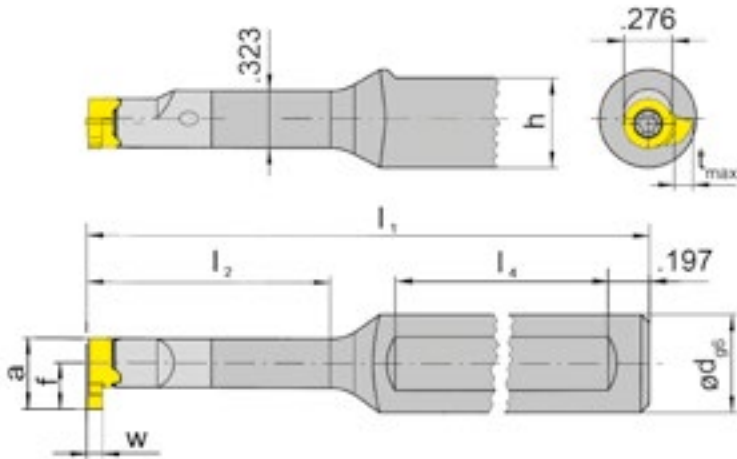
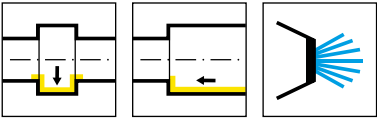


11P



Toolholders

B



R = right hand version shown

L = left hand version

Part number	d	l_1	l_2	h	l_4	HWS
RB U 11P.0500.00	.5	2.953	.591	.461	1.575	11P070R
RB U 11P.0500.01	.5	3.74	1.024	.461	1.772	11P070R
RB U 11P.0500.02	.5	4.331	1.457	.461	1.772	11P070R
LB U 11P.0500.00	.5	2.953	.591	.461	1.575	11P070L
LB U 11P.0500.01	.5	3.74	1.024	.461	1.772	11P070L
LB U 11P.0500.02	.5	4.331	1.457	.461	1.772	11P070L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

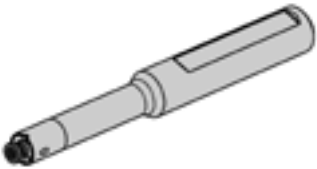
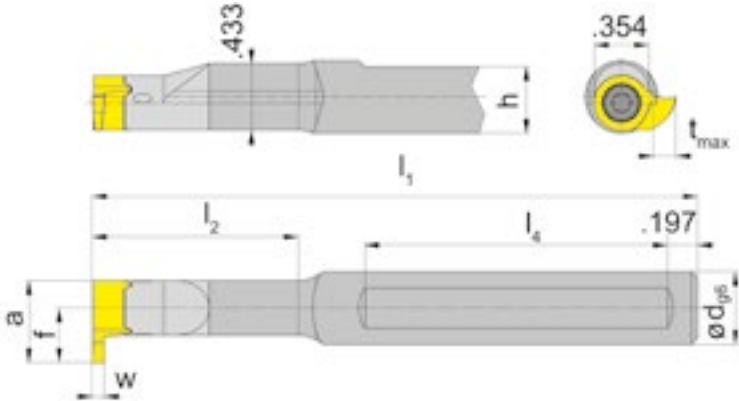
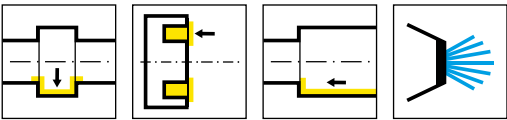
Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LB U 11P...	3.10T9P	T9PL

114



Toolholders and Inserts

B



Picture = right hand cutting version

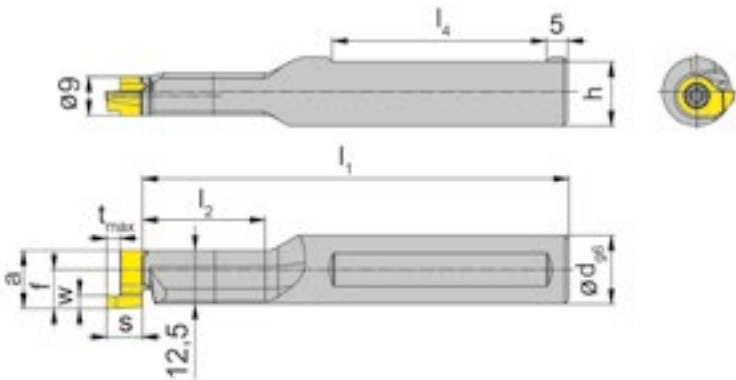
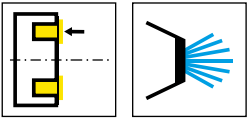
Part number	d	l ₁	l ₂	h	l ₄	HWS
BU114.ST05.00	.5	2.953	.748	.461	1.575	311090R • 311090L
BU114.ST06.00	.625	3.15	.748	.585	1.575	311090R • 311090L
BU114.0500.01	.5	3.937	1.339	.461	1.969	311090R • 311090L
BU114.0500.02	.5	4.331	1.772	.461	1.969	311090R • 311090L
BU114.0500.03	.5	5.118	2.52	.461	1.969	311090R • 311090L
BU114.0625.01	.625	3.937	1.339	.585	1.969	311090R • 311090L
BU114.0625.02	.625	4.331	1.772	.585	1.969	311090R • 311090L
BU114.0625.03	.625	5.118	2.52	.585	1.969	311090R • 311090L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU114...	4.12T15EP	T15PQ



Picture = right hand cutting version

Part number	d	l ₁	l ₂	h	l ₄	HWS
RBAU114.0625.01	.625	4.252	1.457	.586	1.969	311090R • 311090L
RBAU114.0625.02	.625	4.646	1.89	.586	1.969	311090R • 311090L

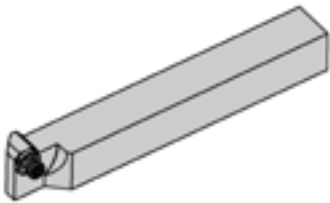
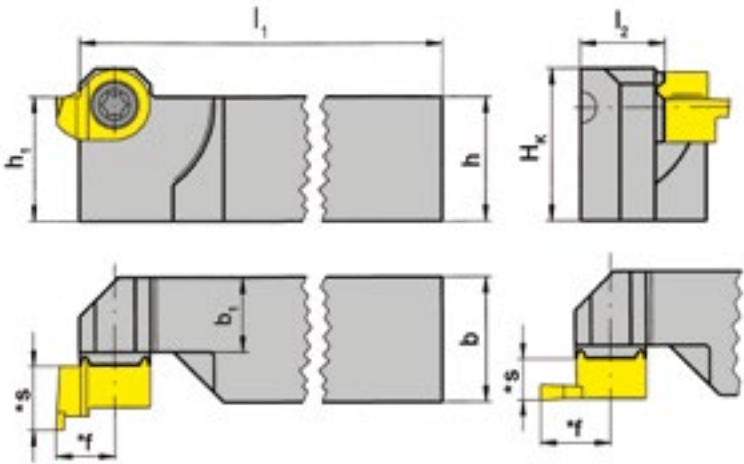
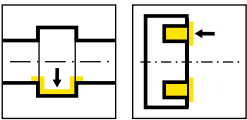
w, a, s, tmax and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RBAU114...	4.12T15EP	T15PQ

B



R = right hand version shown

L = left hand version

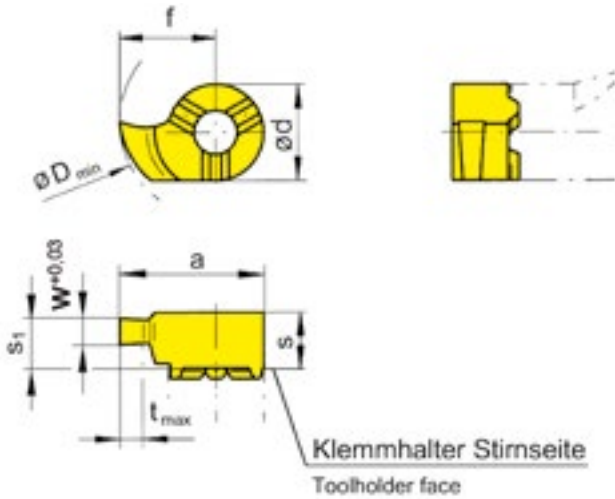
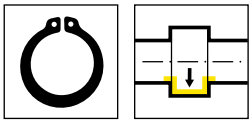
Part number	h	b	l ₁	l ₂	h ₁	b ₁	H _k	HWS
RHCU114.0500.01	.5	.5	3.937	.441	.5	.374	.642	311090R
RHCU114.0625.01	.625	.625	4.921	.441	.625	.374	.768	311090R
RHCU114.0750.01	.75	.75	4.921	.559	.75	.492	.894	311090R
RHCU114.1000.01	1	1	5.906	.815	1	.728	1.142	311090R
LHCU114.0500.01	.5	.5	3.937	.441	.5	.374	.642	311090R • 311090L
LHCU114.0625.01	.625	.625	4.921	.441	.625	.374	.768	311090R • 311090L
LHCU114.0750.01	.75	.75	4.921	.559	.75	.492	.894	311090R • 311090L
LHCU114.1000.01	1	1	5.906	.815	1	.728	1.142	311090R • 311090L

* see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHCU114...	4.12T15EP	T15PQ



R = right hand version shown

L = left hand version

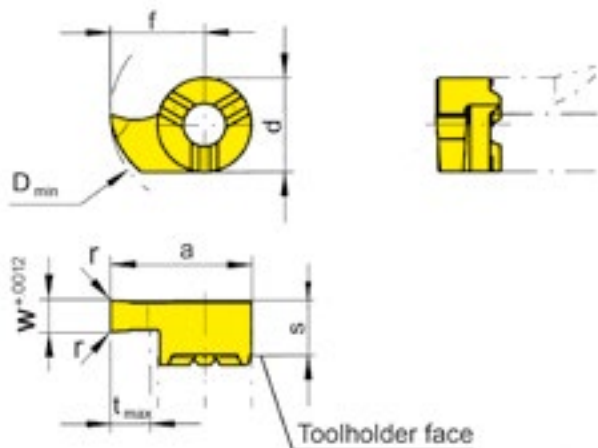
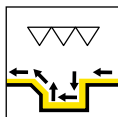
▲ on stock

Δ 4 weeks

Carbide grades

Part number	w	s	f	a	s ₁	d	t _{max}	D _{min}	HIS		TH35	TN35
RU114.0031.00	.03	.217	.354	.531	.209	.354	.047	.551	311090R		▲	▲
RU114.0039.00	.038	.217	.354	.531	.209	.354	.047	.551	311090R		▲	▲
LU114.0031.00	.03	.217	.354	.531	.209	.354	.047	.551	311090L			▲
not face cutting, limited depth of cut										P	●	●
Dimensions in inch										M	●	●
										K	●	●
										N	●	●
										S	●	●
										H	-	-

B



Carbide grades

R = right hand version shown

L = left hand version

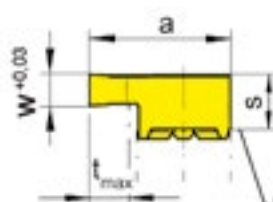
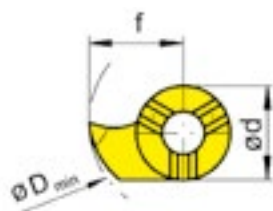
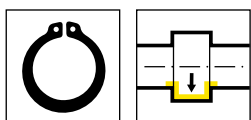
▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	IG35	TF45	TH35	TI25	TN35
RU114.0031.08	.031	.209	.354	.531	.008	.354	.157	.551	311090R				Δ	▲		▲
RU114.0046.08	.046	.209	.354	.531	.008	.354	.157	.551	311090R					▲		▲
RU114.0062.08	.062	.209	.354	.531	.008	.354	.157	.551	311090R				▲	▲		▲
RU114.0078.08	.078	.209	.354	.531	.008	.354	.157	.551	311090R					▲		▲
RU114.0094.08	.094	.209	.354	.531	.008	.354	.157	.551	311090R				▲	▲		▲
RU114.0125.08	.125	.209	.354	.531	.008	.354	.157	.551	311090R		Δ			▲	Δ	▲
RU114.0046.16	.046	.209	.354	.531	.016	.354	.157	.551	311090R			▲		▲		Δ
RU114.0062.16	.062	.209	.354	.531	.016	.354	.157	.551	311090R			▲		▲		▲
RU114.0078.16	.078	.209	.354	.531	.016	.354	.157	.551	311090R					▲		▲
RU114.0094.16	.094	.209	.354	.531	.016	.354	.157	.551	311090R		Δ			▲		▲
RU114.0125.16	.125	.209	.354	.531	.016	.354	.157	.551	311090R			▲		▲		▲
LU114.0031.08	.031	.209	.354	.531	.008	.354	.157	.551	311090L							▲
LU114.0046.08	.046	.209	.354	.531	.008	.354	.157	.551	311090L							▲
LU114.0062.08	.062	.209	.354	.531	.008	.354	.157	.551	311090L			▲				▲
LU114.0078.08	.078	.209	.354	.531	.008	.354	.157	.551	311090L							▲
LU114.0094.08	.094	.209	.354	.531	.008	.354	.157	.551	311090L							▲
LU114.0125.08	.125	.209	.354	.531	.008	.354	.157	.551	311090L							▲
LU114.0078.16	.078	.209	.354	.531	.016	.354	.157	.551	311090L							▲
LU114.0094.16	.094	.209	.354	.531	.016	.354	.157	.551	311090L							▲
LU114.0125.16	.125	.209	.354	.531	.016	.354	.157	.551	311090L							Δ

Dimensions in inch

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



Klemmhalter Stirnseite
Toolholder face

Carbide grades

R = right hand version shown

L = left hand version

▲ on stock

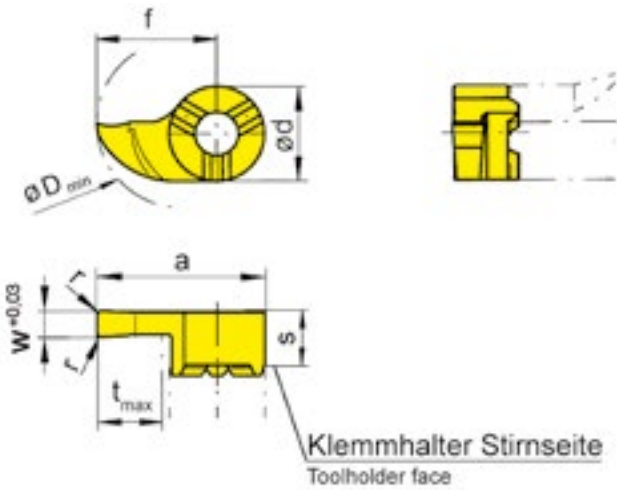
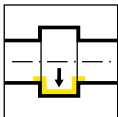
Δ 4 weeks

Part number	w	s	f	a	d	t _{max}	D _{min}	HIS		MG12	TF45	TH35	TN35
RU114.0046.00	.046	.209	.354	.531	.354	.157	.551	311090R			Δ	▲	▲
RU114.0056.00	.056	.209	.354	.531	.354	.157	.551	311090R				▲	▲
RU114.0062.00	.063	.209	.354	.531	.354	.157	.551	311090R			Δ	▲	▲
RU114.0078.00	.078	.209	.354	.531	.354	.157	.551	311090R		Δ		▲	▲
RU114.0094.00	.095	.209	.354	.531	.354	.157	.551	311090R		▲	▲	▲	▲
RU114.0125.00	.126	.209	.354	.531	.354	.157	.551	311090R				▲	▲
LU114.0046.00	.046	.209	.354	.531	.354	.157	.551	311090L					▲
LU114.0056.00	.056	.209	.354	.531	.354	.157	.551	311090L					▲
LU114.0062.00	.063	.209	.354	.531	.354	.157	.551	311090L		Δ			▲
LU114.0078.00	.078	.209	.354	.531	.354	.157	.551	311090L		Δ			▲
LU114.0094.00	.095	.209	.354	.531	.354	.157	.551	311090L					▲
LU114.0125.00	.126	.209	.354	.531	.354	.157	.551	311090L					▲

Dimensions in inch

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

B



R = right hand version shown

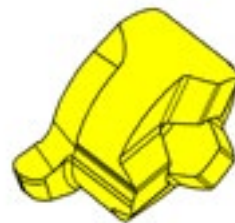
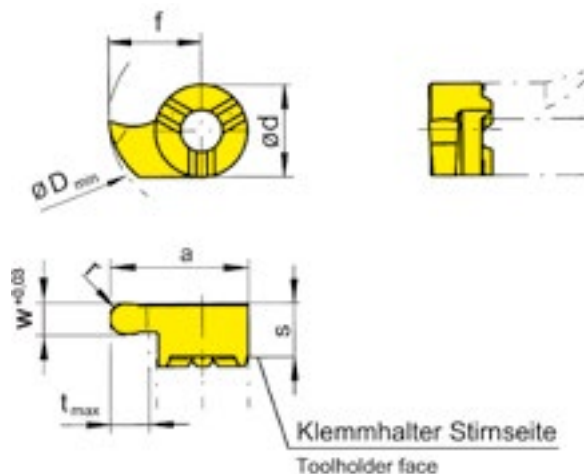
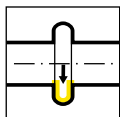
L = left hand version

▲ on stock

Δ 4 weeks

Carbide grades

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	TH35	TN35
RU114.0062.1.08	.063	.209	.445	.622	.008	.354	.256	.65	311090R			▲	▲
RU114.0078.1.08	.079	.209	.445	.622	.008	.354	.256	.65	311090R			▲	▲
RU114.0094.1.08	.095	.209	.445	.622	.008	.354	.256	.65	311090R		Δ	▲	▲
RU114.0125.1.08	.126	.209	.445	.622	.008	.354	.256	.65	311090R		▲	▲	▲
LU114.0062.1.08	.063	.209	.445	.622	.008	.354	.256	.65	311090L				▲
LU114.0094.1.08	.095	.209	.445	.622	.008	.354	.256	.65	311090L				▲
LU114.0125.1.08	.126	.209	.445	.622	.008	.354	.256	.65	311090L				▲
Dimensions in inch										P	o	•	•
										M	-	•	•
										K	-	•	•
										N	-	•	•
										S	-	•	•
										H	-	-	-



Carbide grades

R = right hand version shown

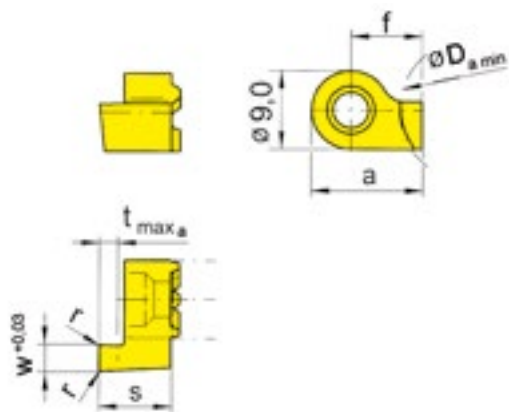
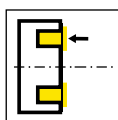
L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		IG35	TF45	TH35	TN35
RU114.0031.62	.063	.209	.354	.531	.032	.354	.157	.551	311090R			Δ	▲	▲
RU114.0039.78	.079	.209	.354	.531	.039	.354	.157	.551	311090R				▲	▲
RU114.0047.94	.095	.209	.354	.531	.047	.354	.157	.551	311090R				▲	▲
RU114.0062.12	.126	.209	.354	.531	.063	.354	.157	.551	311090R				▲	▲
LU114.0031.62	.063	.209	.354	.531	.032	.354	.157	.551	311090L		▲			▲
LU114.0039.78	.079	.209	.354	.531	.039	.354	.157	.551	311090L					▲
LU114.0047.94	.095	.209	.354	.531	.047	.354	.157	.551	311090L					▲
LU114.0062.12	.126	.209	.354	.531	.063	.354	.157	.551	311090L					▲
Dimensions in inch											P	-	•	•
											M	•	•	•
											K	-	•	•
											N	-	•	•
											S	•	•	•
											H	-	-	-

B



Carbide grades

R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

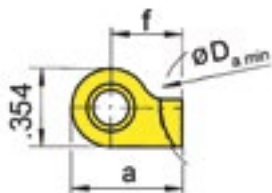
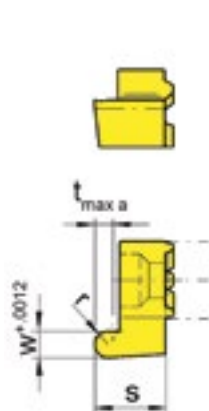
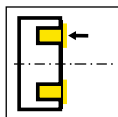
Part number	w	s	f	a	r	t _{max a}	HIS	IG35	TH35	TN35
RU114.1225.00	.126	.327	.295	.472	.008	.118	311090R		▲	▲
RU114.1246.00	.047	.327	.295	.472	-	.071	311090R		▲	▲
RU114.1262.00	.063	.327	.295	.472	.008	.098	311090R		▲	▲
RU114.1278.00	.079	.327	.295	.472	.008	.118	311090R		▲	▲
RU114.1294.00	.095	.327	.295	.472	.008	.118	311090R		▲	▲
LU114.1225.00	.126	.327	.295	.472	.008	.118	311090L			▲
LU114.1246.00	.047	.327	.295	.472	-	.071	311090L			▲
LU114.1262.00	.063	.327	.295	.472	.008	.098	311090L			▲
LU114.1278.00	.079	.327	.295	.472	.008	.118	311090L			▲
LU114.1294.00	.095	.327	.295	.472	.008	.118	311090L	▲		▲

Machining **BEHIND** centre line

R = rotation anti-clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by .118, .217 or .256".

Dimensions in inch

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



Carbide grades

R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	t _{max a}	D _{a min}	HIS	IG35	TH35	TN35
RU114.1223.46	.047	.327	.295	.472	.023	.059	.472	311090R		▲	▲
RU114.1231.62	.063	.327	.295	.472	.032	.098	.472	311090R		▲	▲
RU114.1239.78	.079	.327	.295	.472	.039	.118	.472	311090R		▲	▲
RU114.1247.94	.095	.327	.295	.472	.047	.118	.472	311090R		▲	▲
RU114.1262.12	.126	.327	.295	.472	.063	.118	.472	311090R		▲	▲
LU114.1223.46	.047	.327	.295	.472	.023	.059	.472	311090L	▲		▲
LU114.1231.62	.063	.327	.295	.472	.032	.098	.472	311090L	▲		▲
LU114.1239.78	.079	.327	.295	.472	.039	.118	.472	311090L			▲
LU114.1247.94	.095	.327	.295	.472	.047	.118	.472	311090L			▲
LU114.1262.12	.126	.327	.295	.472	.063	.118	.472	311090L			▲

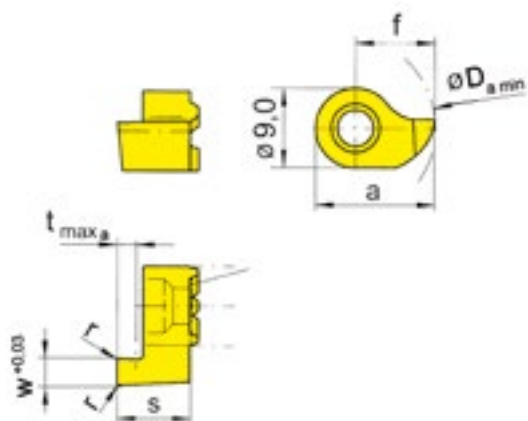
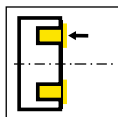
Full radius Machining **BEHIND** centre line

R = rotation anti-clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by .118, .217 or .256".

Dimensions in inch

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

B



Carbide grades

R = right hand version shown

L = left hand version

▲ on stock

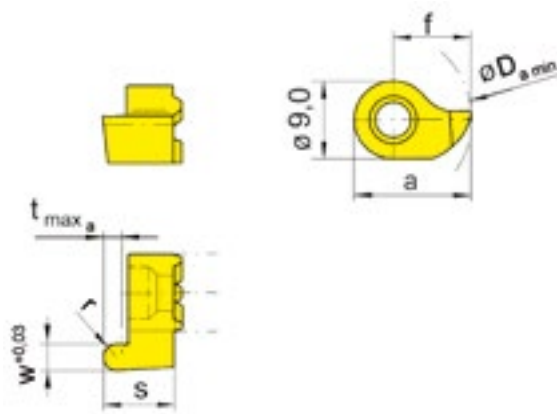
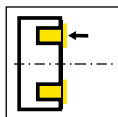
Δ 4 weeks

Part number	w	s	f	a	r	t _{max a}	D _{a min}	HIS	IG35	TH35	TN35
RU114.1425.00	.126	.327	.354	.531	.008	.118	.551	311090R		▲	▲
RU114.1446.00	.047	.327	.354	.531	-	.059	.551	311090R		▲	▲
RU114.1462.00	.063	.327	.354	.531	.008	.098	.551	311090R		▲	▲
RU114.1478.00	.079	.327	.354	.531	.008	.118	.551	311090R		▲	▲
RU114.1494.00	.095	.327	.354	.531	.008	.118	.551	311090R		▲	▲
LU114.1425.00	.126	.327	.354	.531	.008	.118	.551	311090L			▲
LU114.1446.00	.047	.327	.354	.531	-	.059	.551	311090L			▲
LU114.1462.00	.063	.327	.354	.531	.008	.098	.551	311090L	▲		▲
LU114.1478.00	.079	.327	.354	.531	.008	.118	.551	311090L			▲
LU114.1494.00	.095	.327	.354	.531	.008	.118	.551	311090L			▲

Machining **IN-FRONT** of centre line

R = rotation clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by .118".

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



Carbide grades

R = right hand version shown

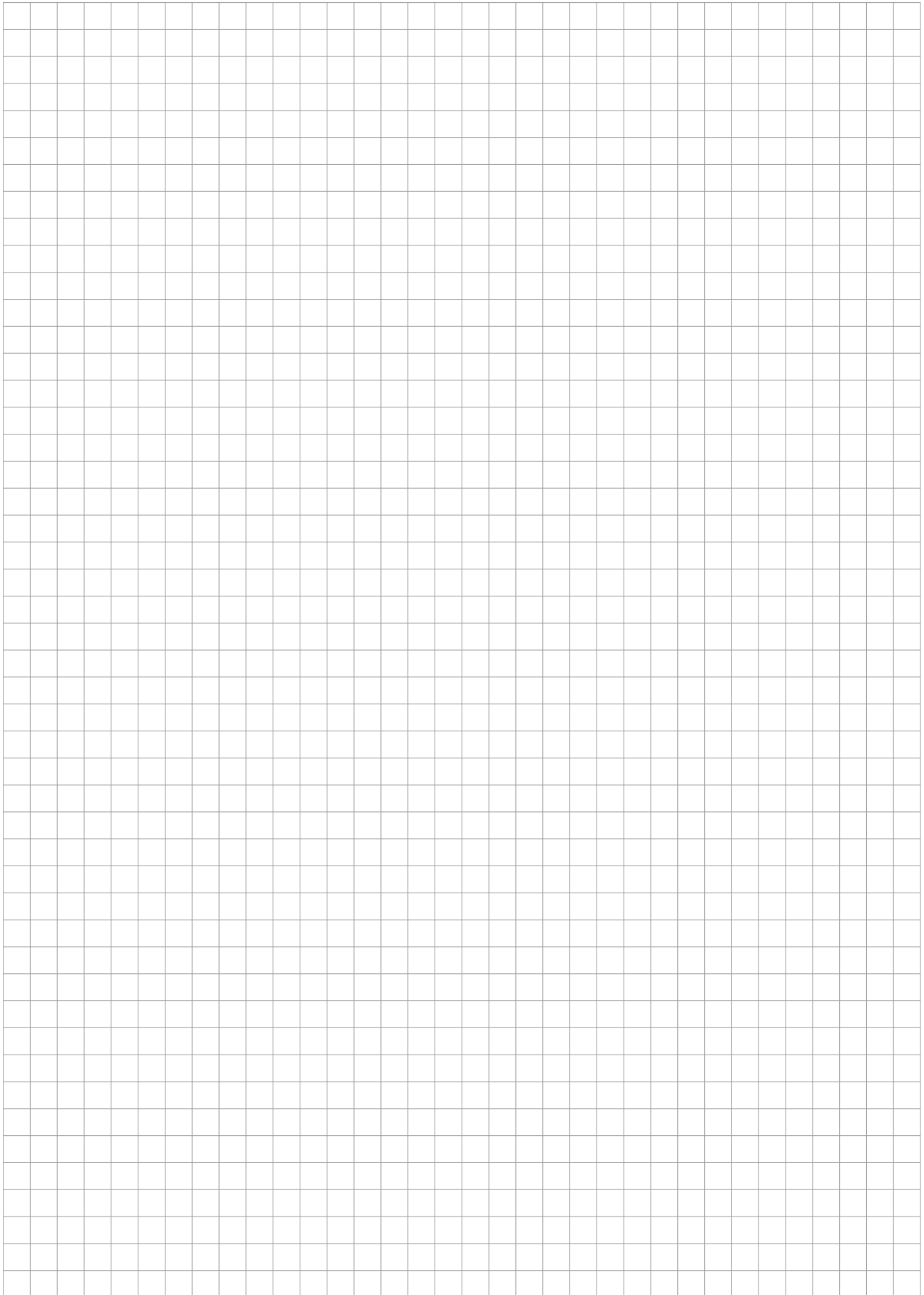
L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	t _{max a}	D _{a min}	HIS		TH35	TN35
RU114.1423.46	.046	.327	.354	.531	.023	.059	.551	311090R	▲	▲	▲
RU114.1431.62	.063	.327	.354	.531	.031	.098	.551	311090R	▲	▲	▲
RU114.1439.78	.078	.327	.354	.531	.039	.118	.551	311090R	▲	▲	▲
RU114.1447.94	.094	.327	.354	.531	.047	.118	.551	311090R	▲	▲	▲
RU114.1462.12	.125	.327	.354	.531	.063	.118	.551	311090R	▲	▲	▲
LU114.1431.62	.063	.327	.354	.531	.031	.098	.551	311090L			▲
LU114.1439.78	.078	.327	.354	.531	.039	.118	.551	311090L			▲
LU114.1447.94	.094	.327	.354	.531	.047	.118	.551	311090L			▲
LU114.1462.12	.125	.327	.354	.531	.063	.118	.551	311090L			▲
Full radius Machining IN-FRONT of centre line									P	●	●
R = rotation clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by .118".									M	●	●
Dimensions in inch									K	●	●
									N	●	●
									S	●	●
									H	-	-

B

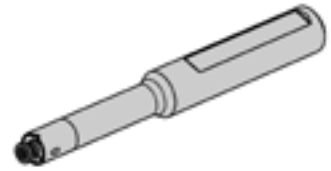
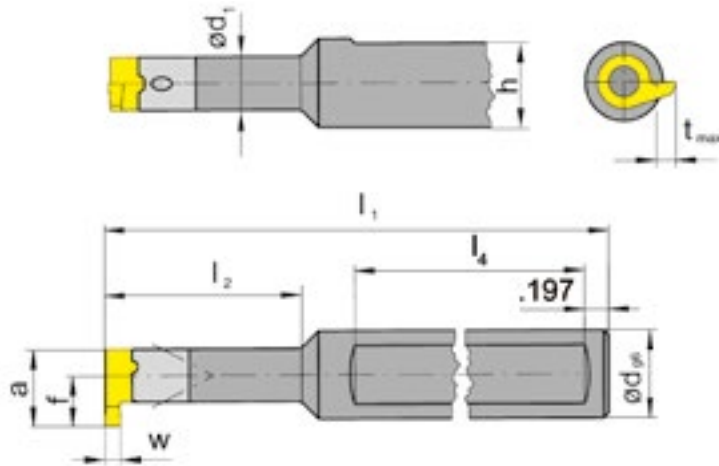
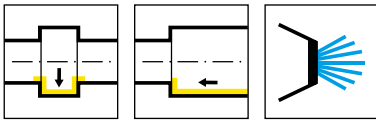


116



Toolholders and Inserts

B



Picture = right hand cutting version

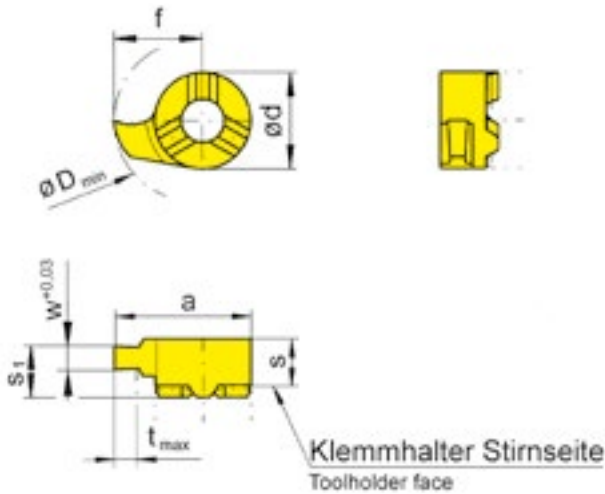
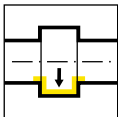
Part number	d	l_1	l_2	h	l_4	d_1	HWS
BU116.ST05.00	.5	3.15	.787	.46	1.772	.433	116110R • 116110L
BU116.ST06.00	.625	3.15	.787	.585	1.772	.433	116110R • 116110L
BU116.0500.01	.5	5.118	1.575	.461	1.969	.433	116110R • 116110L
BU116.0500.02	.5	5.118	2.205	.461	1.969	.433	116110R • 116110L
BU116.0500.03	.5	5.906	3.15	.461	1.969	.433	116110R • 116110L
BU116.0625.01	.625	5.118	1.575	.586	1.969	.433	116110R • 116110L
BU116.0625.02	.625	5.118	2.205	.586	1.969	.433	116110R • 116110L
BU116.0625.03	.625	5.906	3.15	.586	1.969	.433	116110R • 116110L

w, a, tmax and f see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
BU116...	5.13T20EP	T20PQ



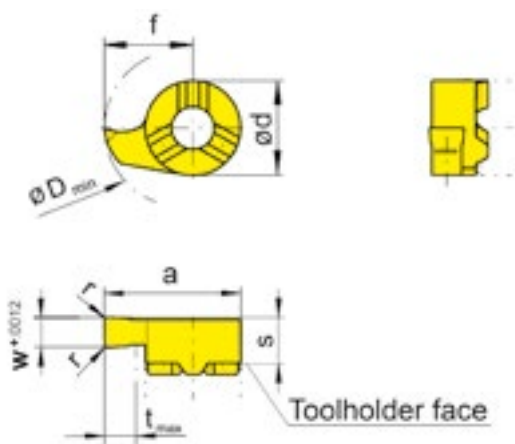
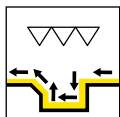
R = right hand version shown

L = left hand version

Carbide grades
▲ on stock Δ 4 weeks

Part number	w	s	f	a	d	t _{max}	D _{min}	HIS		TH35	TN35
RU116.0031.00	.031	.217	.402	.618	.433	.059	.63	116110R		▲	▲
RU116.0039.00	.039	.217	.402	.618	.433	.059	.63	116110R		▲	▲
LU116.0031.00	.031	.217	.402	.618	.433	.059	.63	116110L			▲
not face cutting, limited depth of cut										P	●
Dimensions in inch									M	●	●
									K	●	●
									N	●	●
									S	●	●
									H	-	-

B



Carbide grades

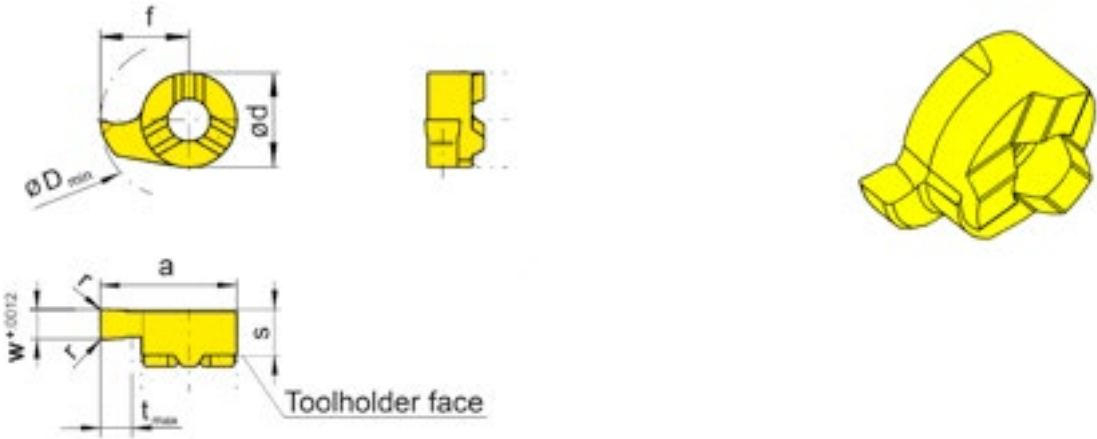
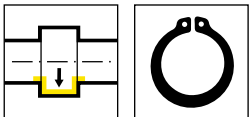
R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	w	s	f	a	r	d	t _{max}	D _{min}	HIS		MG12	IG35	TF45	TH35	TI25	TN35
RU116.0031.08	.032	.209	.402	.618	.008	.433	.169	.63	116110R		▲	▲		▲		▲
RU116.0046.08	.047	.209	.402	.618	.008	.433	.169	.63	116110R					▲		▲
RU116.0062.08	.063	.209	.402	.618	.008	.433	.169	.63	116110R				▲	▲	Δ	▲
RU116.0078.08	.079	.209	.402	.618	.008	.433	.169	.63	116110R		Δ			▲		▲
RU116.0094.08	.095	.209	.402	.618	.008	.433	.169	.63	116110R				▲	▲		▲
RU116.0125.08	.126	.209	.402	.618	.008	.433	.169	.63	116110R		▲			▲		▲
LU116.0031.08	.032	.209	.402	.618	.008	.433	.169	.63	116110L							▲
LU116.0046.08	.047	.209	.402	.618	.008	.433	.169	.63	116110L							Δ
LU116.0062.08	.063	.209	.402	.618	.008	.433	.169	.63	116110L							▲
LU116.0078.08	.079	.209	.402	.618	.008	.433	.169	.63	116110L							▲
LU116.0094.08	.095	.209	.402	.618	.008	.433	.169	.63	116110L							▲
LU116.0125.08	.126	.209	.402	.618	.008	.433	.169	.63	116110L			▲				▲
Dimensions in inch											P	o	-	•	•	•
											M	-	•	•	•	•
											K	-	-	•	•	•
											N	-	-	•	•	•
											S	-	•	•	•	•
											H	-	-	-	-	-



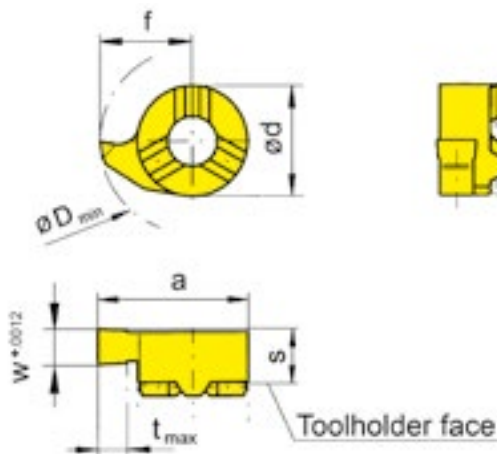
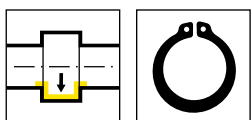
R = right hand version shown

L = left hand version

Carbide grades
▲ on stock Δ 4 weeks

Part number	w	r	s	t _{max}	a	f	HIS		MG12	TH35	TN35
RU116.0046.16	.047	.016	.209	.169	.618	.402	116110R	Δ		▲	▲
RU116.0062.16	.063	.016	.209	.169	.618	.402	116110R			▲	▲
RU116.0078.16	.079	.016	.209	.169	.618	.402	116110R			▲	▲
RU116.0094.16	.095	.016	.209	.169	.618	.402	116110R			▲	▲
RU116.0125.16	.126	.016	.209	.169	.618	.402	116110R			▲	▲
LU116.0046.16	.047	.016	.209	.169	.618	.402	116110L				Δ
LU116.0094.16	.095	.016	.209	.169	.618	.402	116110L				Δ
LU116.0125.16	.126	.016	.209	.169	.618	.402	116110L				▲
Dimensions in inch								P	o	●	●
								M	-	●	●
								K	-	●	●
								N	-	●	●
								S	-	●	●
								H	-	-	-

B



Carbide grades

R = right hand version shown

L = left hand version

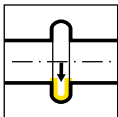
▲ on stock

Δ 4 weeks

Part number	w	s	f	Ds	a	d	t _{max}	D _{min}	Z	HIS		MG12	TF45	TH35	TN35
RU116.0046.00	.046	.217	.402	.803	.618	.433	.169	.63	1	116110R				▲	▲
RU116.0056.00	.056	.209	.402	.803	.618	.433	.169	.63	1	116110R				▲	▲
RU116.0062.00	.062	.209	.402	.803	.618	.433	.169	.63	1	116110R	▲	Δ	▲	▲	▲
RU116.0078.00	.078	.209	.402	.803	.618	.433	.169	.63	1	116110R			▲	▲	▲
RU116.0094.00	.094	.209	.402	.803	.618	.433	.169	.63	1	116110R	▲	Δ	▲	▲	▲
RU116.0125.00	.125	.209	.402	.803	.618	.433	.169	.63	1	116110R	▲	▲	▲	▲	▲
LU116.0046.00	.046	.217	.402	.803	.618	.433	.169	.63	1	116110L				▲	▲
LU116.0062.00	.062	.209	.402	.803	.618	.433	.169	.63	1	116110L				▲	▲
LU116.0078.00	.078	.209	.402	.803	.618	.433	.169	.63	1	116110L				▲	▲
LU116.0094.00	.094	.209	.402	.803	.618	.433	.169	.63	1	116110L				▲	▲
LU116.0125.00	.125	.209	.402	.803	.618	.433	.169	.63	1	116110L				▲	▲

Dimensions in inch

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



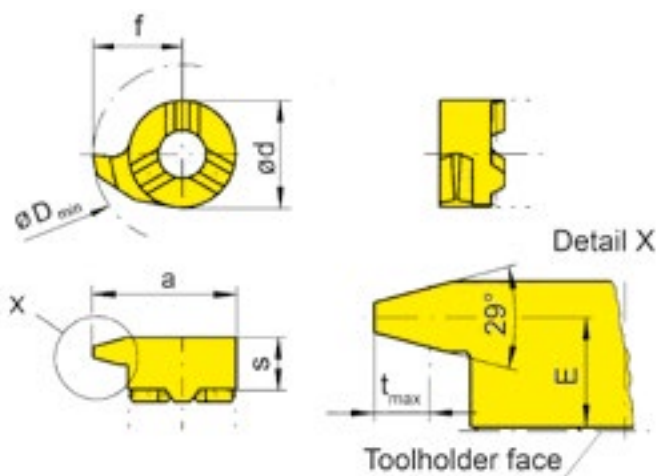
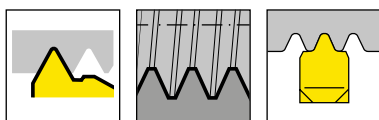
R = right hand version shown

L = left hand version

Carbide grades
▲ on stock Δ 4 weeks

Part number	w	f	Ds	r	d	D _{min}	Z	HIS	IG35 TH35 TN35			
RU116.0031.62	.063	.402	.803	.032	.433	.63	1	116110R				
RU116.0039.78	.079	.402	.803	.039	.433	.63	1	116110R				
RU116.0047.94	.095	.402	.803	.047	.433	.63	1	116110R				
RU116.0062.12	.126	.402	.803	.063	.433	.63	1	116110R				
LU116.0031.62	.063	.402	.803	.032	.433	.63	1	116110L				
LU116.0039.78	.079	.402	.803	.039	.433	.63	1	116110L				
LU116.0047.94	.095	.402	.803	.047	.433	.63	1	116110L				
LU116.0062.12	.126	.402	.803	.063	.433	.63	1	116110L				
Dimensions in inch									P	-	●	●
									M	●	●	●
									K	-	●	●
									N	-	●	●
									S	●	●	●
									H	-	-	-

B



Carbide grades

R = right hand version shown

L = left hand version

▲ on stock

Δ 4 weeks

Part number	E	f	a	d	s	D _{min}	HIS	TH35	TN35
RU116.AC04.01	.13	.402	.618	.433	.217	.63	116110R	▲	▲
RU116.AC05.01	.146	.402	.618	.433	.217	.63	116110R	▲	▲
RU116.SA03.01	.15	.402	.618	.433	.256	.63	116110R	▲	▲
RU116.SA04.01	.138	.402	.618	.433	.217	.63	116110R	▲	▲
RU116.SA05.01	.15	.402	.079	.433	.217	.63	116110R	▲	▲
RU116.SA06.01	.157	.382	.065	.433	.217	.63	116110R	▲	▲
LU116.AC04.01	.13	.402	.618	.433	.217	.63	116110L		▲
LU116.AC05.01	.146	.402	.618	.433	.217	.63	116110L		▲
LU116.SA05.01	.15	.402	.079	.433	.217	.63	116110L		▲
LU116.SA06.01	.157	.382	.065	.433	.217	.63	116110L		Δ

Dimensions in inch

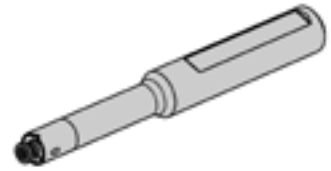
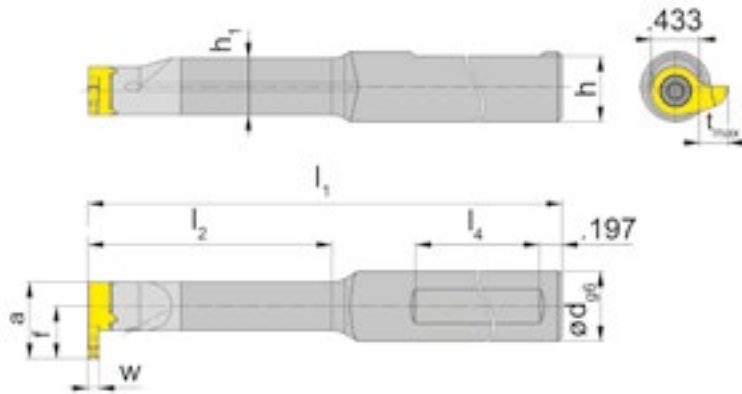
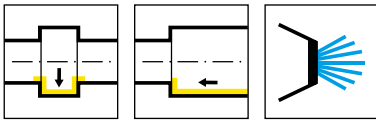
P	•	•
M	•	•
K	•	•
N	•	•
S	•	•
H	-	-

18P



Toolholders

B



R = right hand version shown

L = left hand version

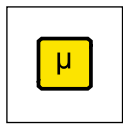
Part number	d	l_1	l_2	h	l_4	h_1	HWS
RBU18P.0500.00	.5	3.937	.984	.461	1.969	.5	18P110R
RBU18P.0500.01	.5	4.724	1.575	.461	1.969	.5	18P110R
RBU18P.0625.00	.625	3.937	.984	.585	1.969	.512	18P110R
RBU18P.0625.01	.625	4.724	1.575	.585	1.969	.512	18P110R
RBU18P.0625.02	.625	5.118	2.205	.585	1.969	.512	18P110R
RBU18P.0625.03	.625	5.906	3.15	.585	1.969	.512	18P110R
LBU18P.0500.00	.5	3.937	.984	.461	1.969	.5	18P110L
LBU18P.0500.01	.5	4.724	1.575	.461	1.969	.5	18P110L
LBU18P.0625.00	.625	3.937	.984	.585	1.969	.512	18P110L
LBU18P.0625.01	.625	4.724	1.575	.585	1.969	.512	18P110L
LBU18P.0625.02	.625	5.118	2.205	.585	1.969	.512	18P110L
LBU18P.0625.03	.625	5.906	3.15	.585	1.969	.512	18P110L

w, a, tmax and f see inserts

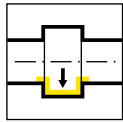
Dimensions in inch

Spare Parts

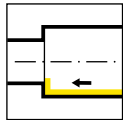
Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU18P...	5.13T20EP	T20PQ



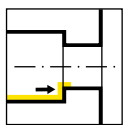
μ Finish



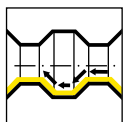
Internal grooving



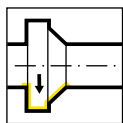
Internal boring



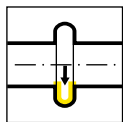
Internal back turning



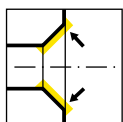
Internal profiling and chamfering



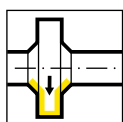
Internal pre-grooving and chamfering



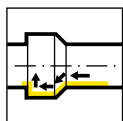
Internal grooving full radius



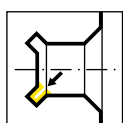
Internal chamfering



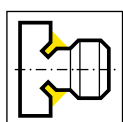
Internal grooving with chamfer



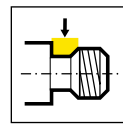
Boring and profiling



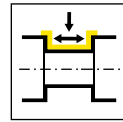
Internal corner relief



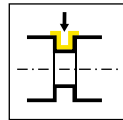
External corner relief



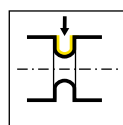
Corner thread relief



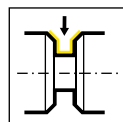
Grooving and side turning



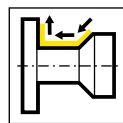
Grooving external



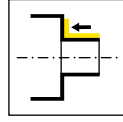
External grooving full radius



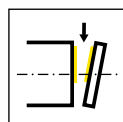
External grooving with NAKF



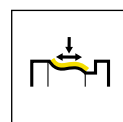
External profiling



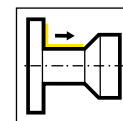
External side turning



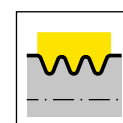
Parting off



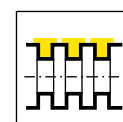
Profiling



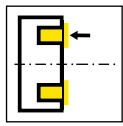
External back turning



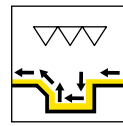
Poly-V-belt grooves



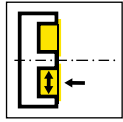
Multiple grooving



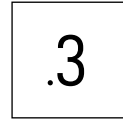
Face grooving



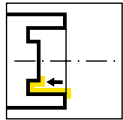
Fine turning



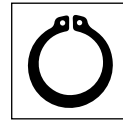
Faced side turning



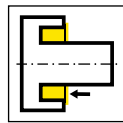
Kind of geometry



Internal face grooving in front of center



Circlip grooves

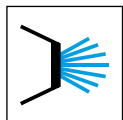


Face grooving with collar

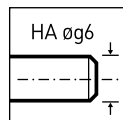


Speed Forming

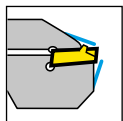
Overview Application Coolant and Shank Form



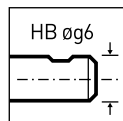
Internal coolant



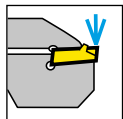
Shank form HA



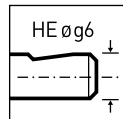
Targeted coolant



Shank form HB



Coolant through insert



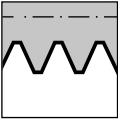
Shank form HE



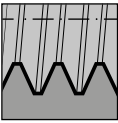
Partial profile thread



Full profile thread



External thread



Internal thread



Whitworth pipe thread BSW/BSF



Unified thread



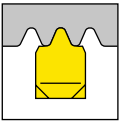
National pipe thread



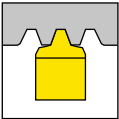
Steel conduit thread



Metric ISO thread

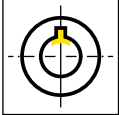
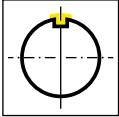
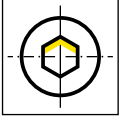
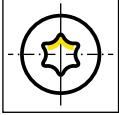
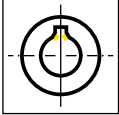


Whitworth pipe thread

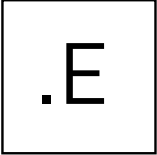
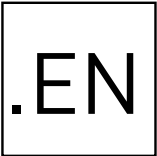
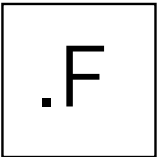
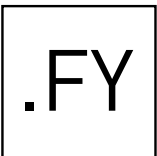
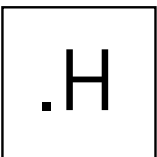


Trapezoidal thread

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

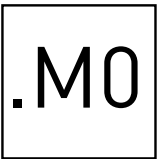
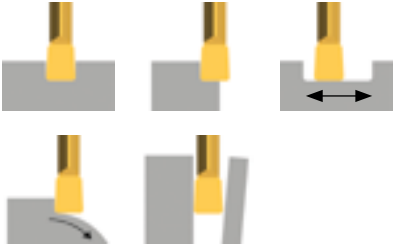
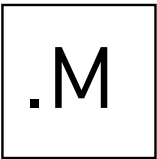
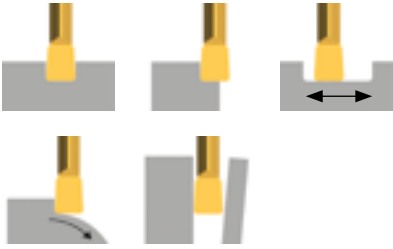
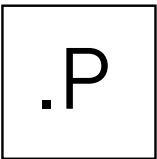
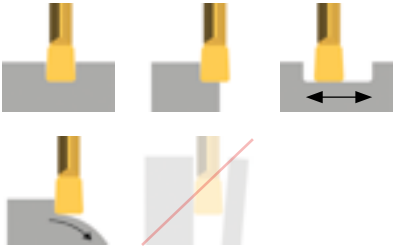
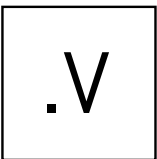
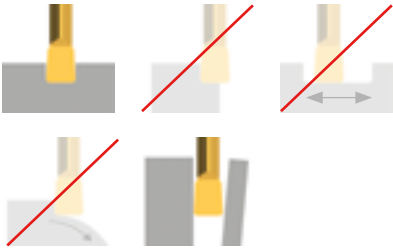
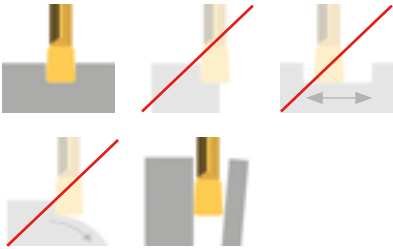
	Geometry A		Tolerance class C11
	Geometry B		Tolerance class D10
	Internal broaching		Tolerance class H9
	External broaching		Tolerance class JS9
	Internal broaching Square		Tolerance class P9
	Internal broaching Hexagon		
	Internal broaching Torx		
	Broaching chamfer		

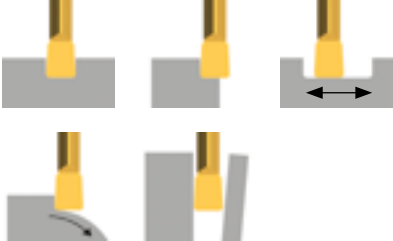
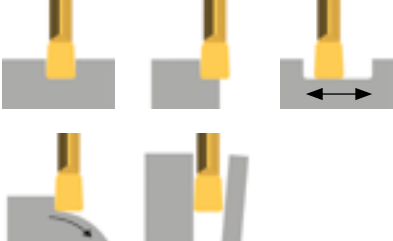
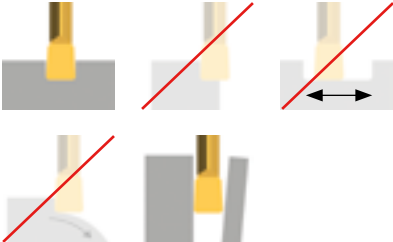
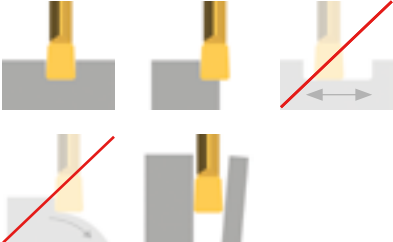
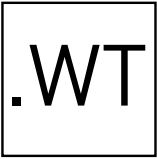
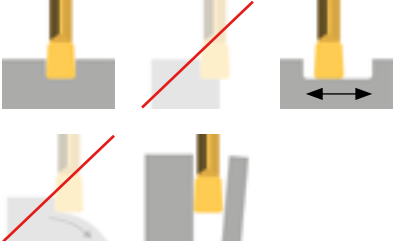
Geometry	Material	VFeed rate f [inch/rev]	Machining
.3	P M K	↓ .0059-.0098	
	N S H	↔ .0059-.0157	
.5	P M K	↓ .0039-.0177	
	N S H	↔ .0059-.0236	
.A	P M K	↓ .002-.0118	
	N S H	↔ .0039-.0118	
.C	P M K	↓ .0008-.0039	
	N S H		
.D	P M K	↓ .0012-.0059	
	N S H	↔ .002-.0079	

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ .0031-.0118	
	P M K N S H	↓ .0039-.0177	
	P M K N S H	↓ .0012-.0059	
	P M K N S H	↓ .0012-.0059	
	P M K N S H	↓ .0059-.0098 ↔ .0039-.0098	

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ .002-.0098 ↔ .002-.0098	
	P M K N S H	↓ .0039-.0177 ↔ .002-.0098	
	P M K N S H	↓ .0039-.0087 ↔ .002-.0079	
	P M K N S H	↓ .0039-.0087 ↔ .002-.0079	
	P M K N S H	↓ .002-.0059	

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ .0028-.0098	
	P M K N S H	↓ .0079-.0118	
	P M K N S H	↓ .002-.0098 ↔ .002-.0098	
	P M K N S H	↓ .0008-.0047	
	P M K N S H	↓ .0012-.0047	

Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ .0008-.0039 ↔ .0008-.0059	
	P M K N S H	↓ .0008-.0047	
	P M K N S H	↓ .0008-.0031 ↔ .0008-.0016	
	P M K N S H	↓ .0016-.0059	
	P M K N S H	↓ .002-.0079	

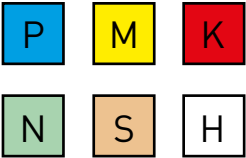
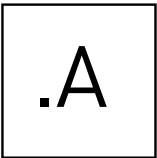
Geometry	Material	Feed rate f [inch/rev]	Machining
	P M K N S H	↓ .0012-.0059	
	P M K N S H	↓ .002-.0059 ↔ .002-.0079	
	P M K N S H	↓ .0028-.0098	
	P M K N S H	↓ .0098-.0016	
	P M K N S H	↓ .0024-.0031 ↔ .0024-.0031	

Geometry	Material	Feed rate f [inch/rev]	Machining
.NC	P M K	↓ .0008-.0039	
	N S H	↔ .0008-.0059	
.FB	P M K	↓ .0008-.0039	
	N S H	↔ .00006-.0028	
.S	P M K	↓ .0008-.0031	
	N S H		
.PT	P M K	↔ .002-.0079	
	N S H		

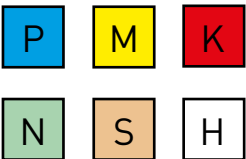
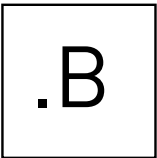
Geometry

Material

Machining



Recommended for: Broaching units
ap = .0008 - .0059 inch



Recommended for: Conventional broaching
ap = .0008 - .0059 inch

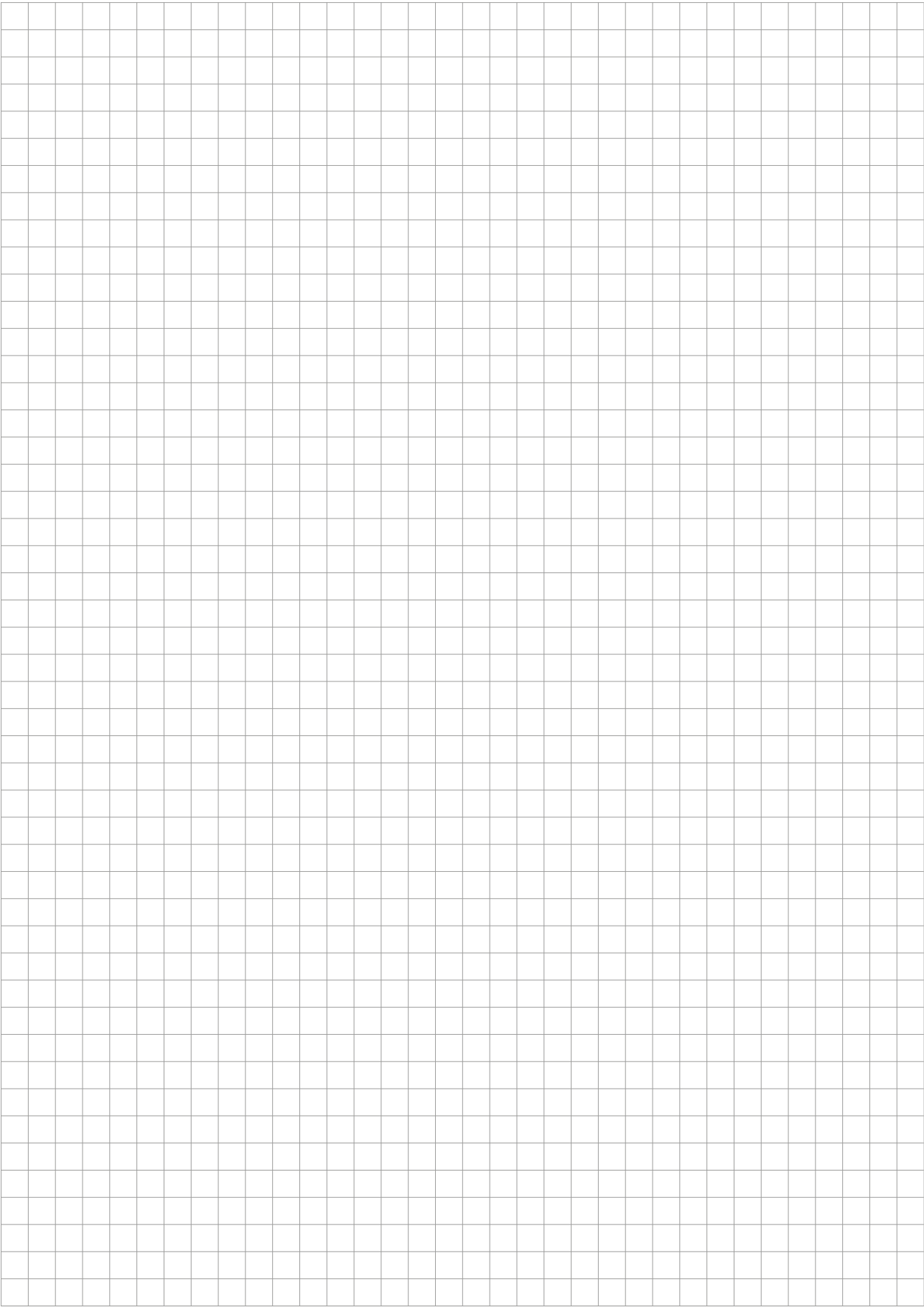
217

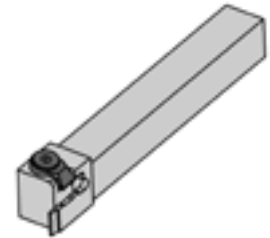
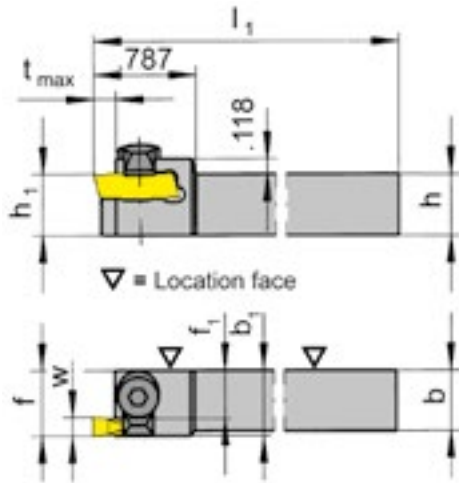
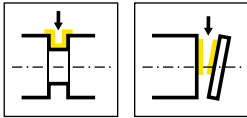
C1



Toolholder and Inserts

C1





C1

R = right hand version shown

L = left hand version

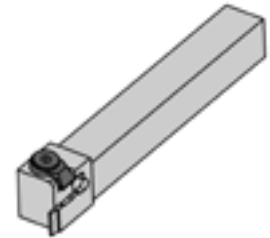
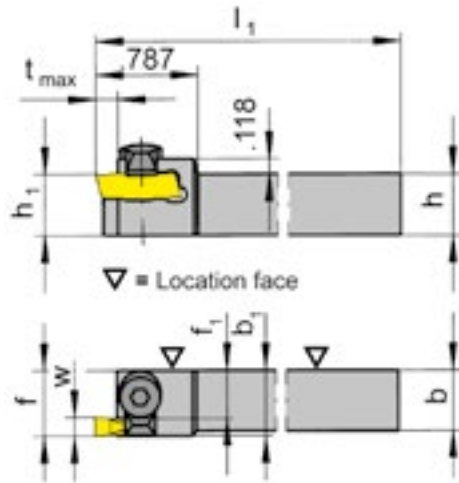
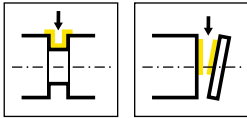
Part number	h	b	l_1	h_1	b_1	f_1	f	t_{max}	HWS
RU240.0375.01	.375	.375	3.15	.375	.512	.453	$f_1 + w - a_1$	.157	21701
RU240.0500.01	.499	.5	3.937	.5	.512	.453	$f_1 + w - a_1$	.157	21701
RU240.0625.01	.624	.625	4.921	.625	.625	.566	$f_1 + w - a_1$	.157	21701
RU240.0750.01	.749	.75	4.921	.75	.75	.691	$f_1 + w - a_1$	.157	21701
RU240.1000.01	.999	1	5.906	1	1	.941	$f_1 + w - a_1$	.157	21701
RU240.0375.02	.375	.375	3.15	.375	.512	.413	$f_1 + w - a_1$	.157	21702
RU240.0500.02	.5	.5	3.937	.5	.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	.75	.75	4.921	.75	.75	.652	$f_1 + w - a_1$	.157	21702
RU240.1000.02	1	1	5.906	1	1	.902	$f_1 + w - a_1$	.157	21702
LU240.0375.01	.374	.375	3.15	.375	.512	.453	$f_1 + w - a_1$	.157	21701
LU240.0500.01	.499	.5	3.937	.5	.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	.75	4.921	.75	.75	.691	$f_1 + w - a_1$	.157	21701
LU240.1000.01	.999	1	5.906	1	1	.941	$f_1 + w - a_1$	.157	21701
LU240.0375.02	.375	.375	3.15	.375	.512	.413	$f_1 + w - a_1$	.157	21702
LU240.0500.02	.5	.5	3.937	.5	.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	.75	.75	4.921	.75	.75	.652	$f_1 + w - a_1$	.157	21702
LU240.1000.02	1	1	5.906	1	1	.902	$f_1 + w - a_1$	.157	21702

w, a1 see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU240...	8.3



R = right hand version shown

L = left hand version

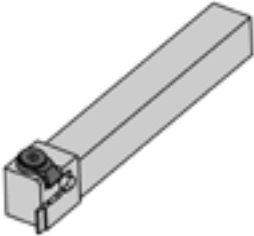
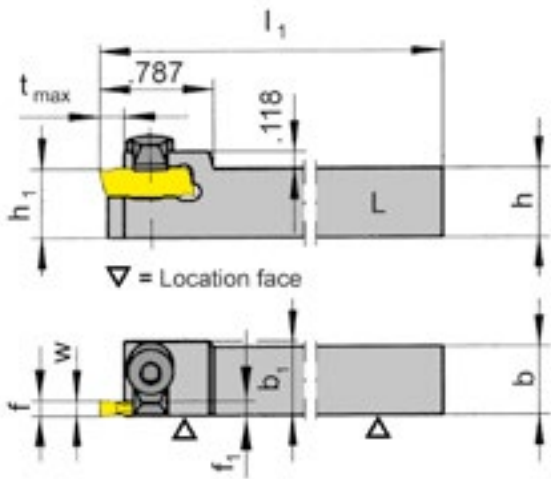
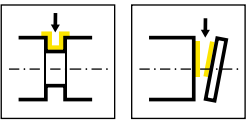
Part number	h	b	l ₁	h ₁	b ₁	f ₁	f	t _{max}	HWS
RU240.0375.03	.375	.375	3.15	.375	.512	.374	f ₁ +w-a ₁	.157	21703
RU240.0500.03	.5	.5	3.937	.5	.512	.374	f ₁ +w-a ₁	.157	21703
RU240.0625.03	.625	.625	4.921	.625	.625	.487	f ₁ +w-a ₁	.157	21703
RU240.0750.03	.75	.75	4.921	.75	.75	.612	f ₁ +w-a ₁	.157	21703
RU240.1000.03	1	1	5.906	1	1	.862	f ₁ +w-a ₁	.157	21703
RU240.0375.04	.375	.375	3	.375	.591	.386	f ₁ +w-a ₁	.157	21704
RU240.0500.04	.5	.5	3.937	.5	.5	.386	f ₁ +w-a ₁	.157	21704
RU240.0625.04	.625	.625	4.921	.625	.625	.42	f ₁ +w-a ₁	.157	21704
RU240.0750.04	.75	.75	4.921	.75	.75	.545	f ₁ +w-a ₁	.157	21704
RU240.1000.04	1	1	5.906	1	1	.795	f ₁ +w-a ₁	.157	21704
LU240.0375.03	.375	.375	3.15	.375	.512	.374	f ₁ +w-a ₁	.157	21703
LU240.0500.03	.5	.5	3.937	.5	.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	.75	.75	4.921	.75	.75	.612	f ₁ +w-a ₁	.157	21703
LU240.1000.03	1	1	5.906	1	1	.862	f ₁ +w-a ₁	.157	21703
LU240.0375.04	.375	.375	3	.375	.591	.386	f ₁ +w-a ₁	.157	21704
LU240.0500.04	.5	.5	3.937	.5	.5	.386	f ₁ +w-a ₁	.157	21704
LU240.0625.04	.625	.625	4.921	.625	.625	.42	f ₁ +w-a ₁	.157	21704
LU240.0750.04	.75	.75	4.921	.75	.75	.545	f ₁ +w-a ₁	.157	21704
LU240.1000.04	1	1	5.906	1	1	.795	f ₁ +w-a ₁	.157	21704

w, a₁ see indexable inserts

Dimensions in inch

Spare Parts

Base holder for toolholder	Clamping element
R/LU240...03	8.3
R/LU240...04	8.4



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
RU248.0500.01	.5	.5	3.74	.5	.539	.48	f ₁ +a ₁	.157	21701
RU248.0500.02	.5	.5	3.74	.5	.539	.445	f ₁ +a ₁	.157	21702
LU248.0500.01	.5	.5	3.74	.5	.539	.48	f ₁ +a ₁	.157	21701
LU248.0500.02	.5	.5	3.74	.5	.539	.445	f ₁ +a ₁	.157	21702

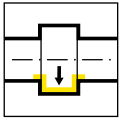
w, a1 see indexable inserts

Dimensions in inch

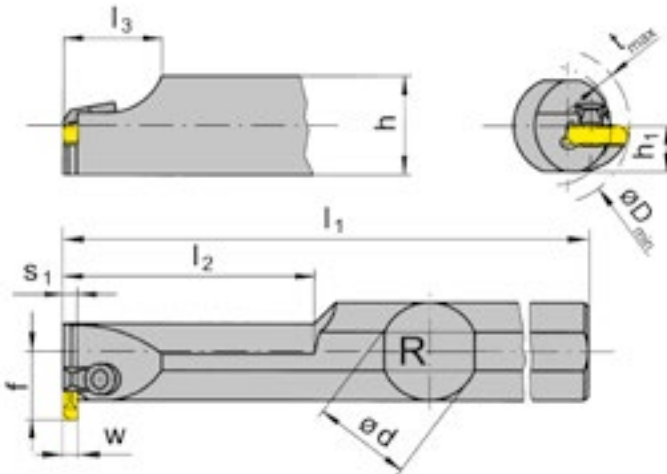
Spare Parts

Toolholder	Clamping element
R/LU248...	8.3

C1



C1



R = right hand version shown

L = left hand version

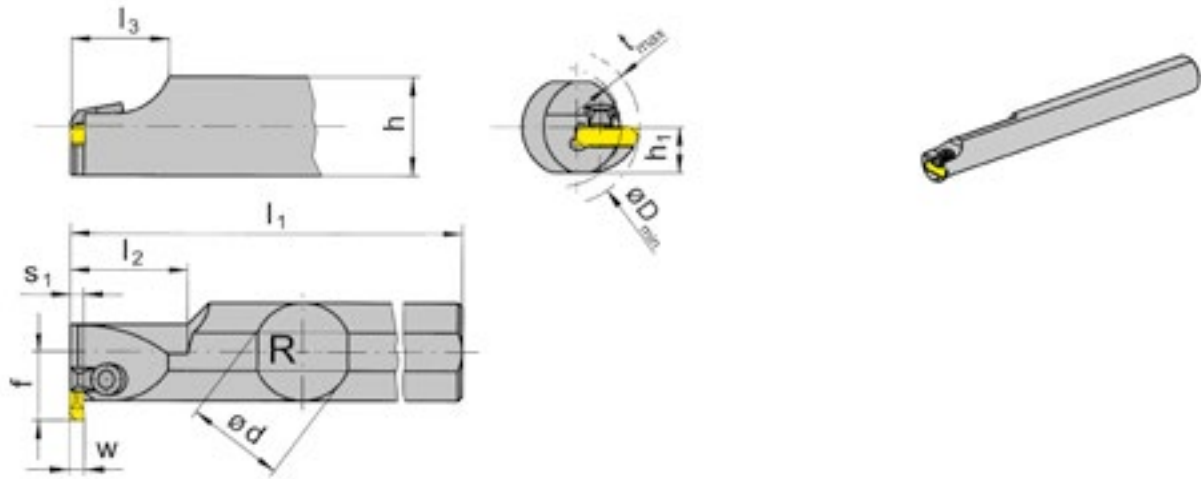
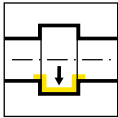
Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU230.0750.01	.75	7.008	2.362	.75	.672	.059	.336	.505	.118	.787	21701
RU250.1000.01	1	10	3.15	1	.921	.059	.461	.697	.185	.984	21701
RU250.1250.01	1.25	10	3.15	1	1.171	.059	.586	.822	.185	1.26	21701
RU230.0750.02	.75	7.008	2.362	.75	.672	.098	.336	.505	.118	.787	21702
RU250.1000.02	1	10	3.15	1	.921	.098	.461	.697	.185	.984	21702
RU250.1250.02	1.25	10	3.15	1	1.171	.098	.586	.822	.185	1.26	21702
RU230.0750.03	.75	7.008	2.362	.75	.672	.138	.336	.505	.118	.787	21703
RU250.1000.03	1	10	3.15	1	.921	.138	.461	.697	.185	.984	21703
RU250.1250.03	1.25	10	3.15	1	1.171	.138	.586	.822	.185	1.26	21703
RU230.0750.04	.75	7.008	2.362	.75	.672	.205	.336	.505	.118	.787	21704
RU250.1000.04	1	10	3.15	1	.921	.205	.461	.697	.185	.984	21704
RU250.1250.04	1.25	10	3.15	1	1.171	.205	.586	.822	.185	1.26	21704
LU230.0750.01	.75	7.008	2.362	.75	.672	.059	.336	.505	.118	.787	21701
LU250.1000.01	1	10	3.15	1	.921	.059	.461	.697	.185	.984	21701
LU250.1250.01	1.25	10	3.15	1	1.171	.059	.586	.822	.185	1.26	21701
LU230.0750.02	.75	7.008	2.362	.75	.672	.098	.336	.505	.118	.787	21702
LU250.1000.02	1	10	3.15	1	.921	.098	.461	.697	.185	.984	21702
LU250.1250.02	1.25	10	3.15	1	1.171	.098	.586	.822	.185	1.26	21702
LU230.0750.03	.75	7.008	2.362	.75	.672	.138	.336	.505	.118	.787	21703
LU250.1000.03	1	10	3.15	1	.921	.138	.461	.697	.185	.984	21703
LU250.1250.03	1.25	10	3.15	1	1.171	.138	.586	.822	.185	1.26	21703
LU230.0750.04	.75	7.008	2.362	.75	.672	.205	.336	.505	.118	.787	21704
LU250.1000.04	1	10	3.15	1	.921	.205	.461	.697	.185	.984	21704
LU250.1250.04	1.25	10	3.15	1	1.171	.205	.586	.822	.185	1.26	21704

w, a1 see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU...01/02/03	8.3
R/LU...04	8.4



R = right hand version shown

L = left hand version

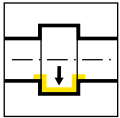
Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU233.0750.01	.75	5	.984	.75	.672	.059	.336	.505	.118	.787	21701
RU253.1000.01	1	5.984	1.181	1	.921	.059	.461	.697	.185	.984	21701
RU253.1250.01	1.25	5.984	1.181	1	1.171	.059	.586	.822	.185	1.26	21701
RU233.0750.02	.75	5	.984	.75	.672	.098	.336	.505	.118	.787	21702
RU253.1000.02	1	5.984	1.181	1	.921	.098	.461	.697	.185	.984	21702
RU253.1250.02	1.25	5.984	1.181	1	1.171	.098	.586	.822	.185	1.26	21702
RU233.0750.03	.75	5	.984	.75	.672	.138	.336	.505	.118	.787	21703
RU253.1000.03	1	5.984	1.181	1	.921	.138	.461	.697	.185	.984	21703
RU253.1250.03	1.25	5.984	1.181	1	1.171	.138	.586	.822	.185	1.26	21703
RU233.0750.04	.75	5	.984	.75	.672	.205	.336	.505	.118	.787	21704
RU253.1000.04	1	5.984	1.181	1	.921	.205	.461	.697	.185	.984	21704
RU253.1250.04	1.25	5.984	1.181	1	1.171	.205	.586	.822	.185	1.26	21704
LU233.0750.01	.75	5	.984	.75	.672	.059	.336	.505	.118	.787	21701
LU253.1000.01	1	5.984	1.181	1	.921	.059	.461	.697	.185	.984	21701
LU253.1250.01	1.25	5.984	1.181	1	1.171	.059	.586	.822	.185	1.26	21701
LU233.0750.02	.75	5	.984	.75	.672	.098	.336	.505	.118	.787	21702
LU253.1000.02	1	5.984	1.181	1	.921	.098	.461	.697	.185	.984	21702
LU253.1250.02	1.25	5.984	1.181	1	1.171	.098	.586	.822	.185	1.26	21702
LU233.0750.03	.75	5	.984	.75	.672	.138	.336	.505	.118	.787	21703
LU253.1000.03	1	5.984	1.181	1	.921	.138	.461	.697	.185	.984	21703
LU253.1250.03	1.25	5.984	1.181	1	1.171	.138	.586	.822	.185	1.26	21703
LU233.0750.04	.75	5	.984	.75	.672	.205	.336	.505	.118	.787	21704
LU253.1000.04	1	5.984	1.181	1	.921	.205	.461	.697	.185	.984	21704
LU253.1250.04	1.25	5.984	1.181	1	1.171	.205	.586	.822	.185	1.26	21704

w see indexable inserts

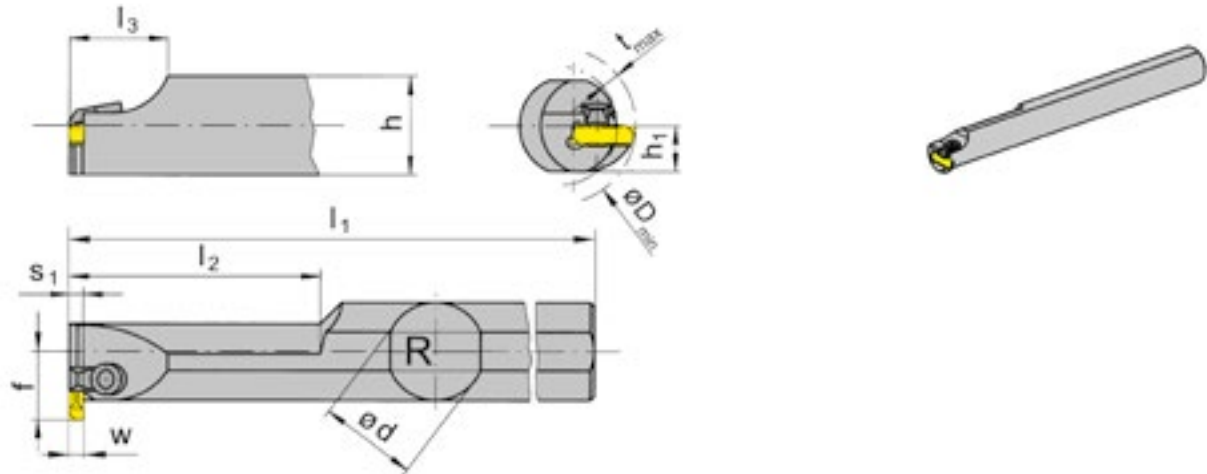
Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU...01/02/03	8.3
R/LU...04	8.4



C1



R = right hand version shown

L = left hand version

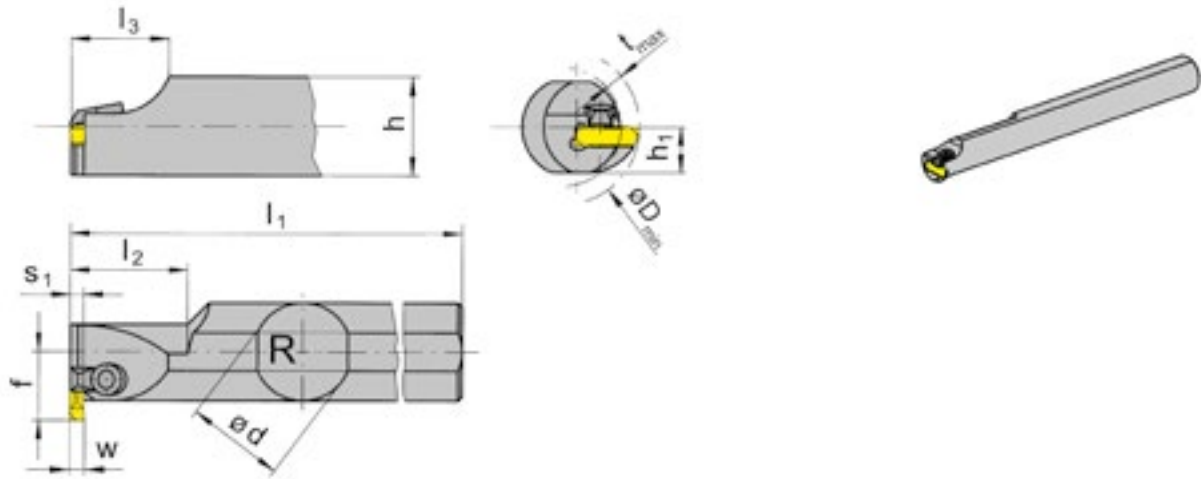
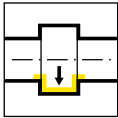
Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU254.1000.01	1	10	3.15	1	.921	.059	.461	.697	.185	.984	21701
RU254.1250.01	1.25	10	3.15	1	1.171	.059	.586	.822	.185	1.26	21701
RU254.1000.02	1	10	3.15	1	.921	.098	.461	.697	.185	.984	21702
RU254.1250.02	1.25	10	3.15	1	1.171	.098	.586	.822	.185	1.26	21702
RU254.1000.03	1	10	3.15	1	.921	.138	.461	.697	.185	.984	21703
RU254.1250.03	1.25	10	3.15	1	1.171	.138	.586	.822	.185	1.26	21703
RU254.1000.04	1	10	3.15	1	.921	.205	.461	.697	.185	.984	21704
RU254.1250.04	1.25	10	3.15	1	1.171	.205	.586	.822	.185	1.26	21704
LU254.1000.01	1	10	3.15	1	.921	.059	.461	.697	.185	.984	21701
LU254.1250.01	1.25	10	3.15	1	1.171	.059	.586	.822	.185	1.26	21701
LU254.1000.02	1	10	3.15	1	.921	.098	.461	.697	.185	.984	21702
LU254.1250.02	1.25	10	3.15	1	1.171	.098	.586	.822	.185	1.26	21702
LU254.1000.03	1	10	3.15	1	.921	.138	.461	.697	.185	.984	21703
LU254.1250.03	1.25	10	3.15	1	1.171	.138	.586	.822	.185	1.26	21703
LU254.1000.04	1	10	3.15	1	.921	.205	.461	.697	.185	.984	21704
LU254.1250.04	1.25	10	3.15	1	1.171	.205	.586	.822	.185	1.26	21704

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU254...01/02/03	8.3
R/LU254...04	8.4



R = right hand version shown

L = left hand version shown

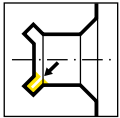
Part number	d	l ₁	l ₂	l ₃	h	s ₁	h ₁	f	t _{max}	D _{min}	HWS
RU235.0750.01	.75	5	.984	.75	.672	.059	.336	.505	.118	.787	21701
RU255.1000.01	1	5.984	1.181	1	.921	.059	.461	.697	.185	.984	21701
RU255.1250.01	1.25	5.984	1.181	1	1.181	.059	.591	.822	.185	1.26	21701
RU235.0750.02	.75	5	.984	.75	.672	.098	.336	.505	.118	.787	21702
RU255.1000.02	1	5.984	1.181	1	.922	.098	.461	.697	.185	.984	21702
RU255.1250.02	1.25	5.984	1.181	1	1.172	.098	.586	.822	.185	1.26	21702
RU235.0750.03	.75	5	.984	.75	.672	.138	.336	.505	.118	.787	21703
RU255.1000.03	1	5.984	1.181	1	.921	.138	.461	.697	.185	.984	21703
RU255.1250.03	1.25	5.984	1.181	1	1.172	.138	.586	.822	.185	1.26	21703
RU235.0750.04	.75	5	.984	.75	.672	.205	.336	.505	.118	.787	21704
RU255.1000.04	1	5.984	1.181	1	.922	.205	.461	.697	.185	.984	21704
RU255.1250.04	1.25	5.984	1.181	1	1.172	.205	.586	.822	.185	1.26	21704
LU235.0750.01	.75	5	.984	.75	.672	.059	.336	.505	.118	.787	21701
LU255.1000.01	1	5.984	1.181	1	.921	.059	.461	.697	.185	.984	21701
LU255.1250.01	1.25	5.984	1.181	1	1.181	.059	.591	.822	.185	1.26	21701
LU235.0750.02	.75	5	.984	.75	.672	.098	.336	.505	.118	.787	21702
LU255.1000.02	1	5.984	1.181	1	.922	.098	.461	.697	.185	.984	21702
LU255.1250.02	1.25	5.984	1.181	1	1.172	.098	.586	.822	.185	1.26	21702
LU235.0750.03	.75	5	.984	.75	.672	.138	.336	.505	.118	.787	21703
LU255.1000.03	1	5.984	1.181	1	.921	.138	.461	.697	.185	.984	21703
LU255.1250.03	1.25	5.984	1.181	1	1.172	.138	.586	.822	.185	1.26	21703
LU235.0750.04	.75	5	.984	.75	.672	.205	.336	.505	.118	.787	21704
LU255.1000.04	1	5.984	1.181	1	.922	.205	.461	.697	.185	.984	21704
LU255.1250.04	1.25	5.984	1.181	1	1.172	.205	.586	.822	.185	1.26	21704

w see indexable inserts

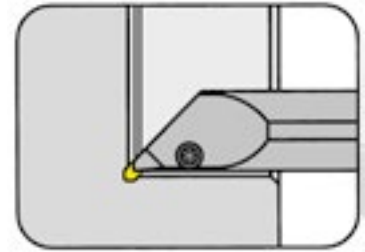
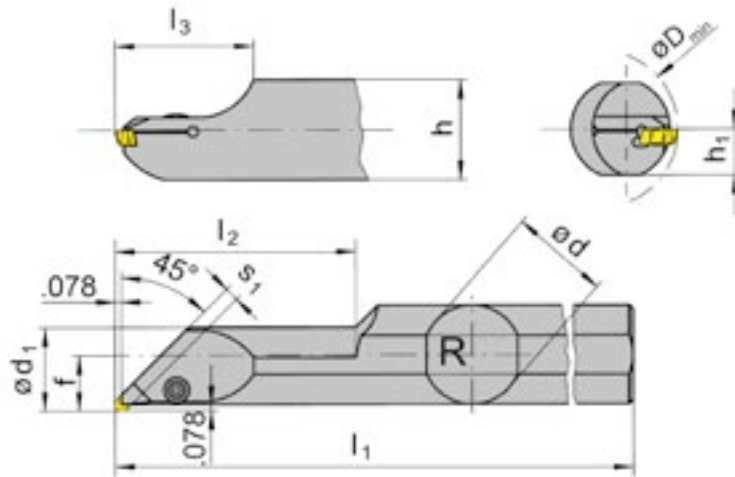
Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU...01/02/03	8.3
R/LU...04	8.4



C1



R = right hand version shown

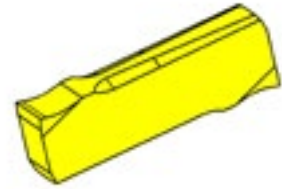
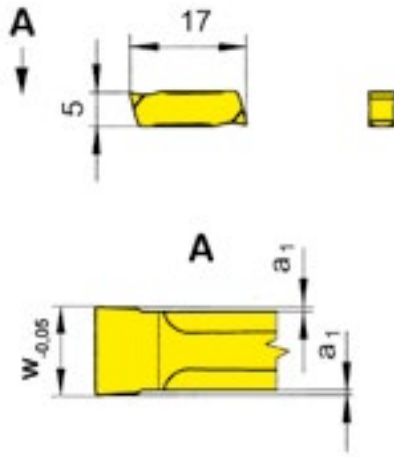
L = left hand version

Part number	d	l ₂	h	l ₁	h ₁	f	D _{min}	d ₁	s ₁	l ₃	HWS
RU245.0750.02	.75	2.359	.671	7.025	.336	.47	.787	.694	.098	1.402	21702
RU245.1000.02	1	3.167	.921	10.017	.461	.596	.984	1.096	.098	1.75	21702
RU245.1250.02	1.25	3.285	1.171	10.017	.586	.726	1.22	1.142	.098	1.75	21702
RU245.0750.03	.75	2.387	.671	7.033	.336	.478	.787	.705	.138	1.378	21703
RU245.1000.03	1	3.273	.921	10.025	.461	.604	.984	.88	.138	1.75	21703
RU245.1250.03	1.25	3.254	1.171	10.025	.586	.734	1.22	1.135	.138	1.75	21703
RU245.0750.04	.75	2.401	.672	7.047	.336	.493	.787	.716	.205	1.248	21704
RU245.1000.04	1	3.287	.921	10.039	.461	.618	.984	.894	.205	1.75	21704
RU245.1250.04	1.25	3.189	1.172	10.039	.586	.743	1.22	1.149	.205	1.656	21704
LU245.0750.02	.75	2.359	.671	7.025	.336	.47	.787	.694	.098	1.402	21702
LU245.1250.02	1.25	3.285	1.171	10.017	.586	.726	1.22	1.142	.098	1.75	21702
LU245.0750.03	.75	2.387	.671	7.033	.336	.478	.787	.706	.138	1.378	21703
LU245.1000.03	1	3.273	.921	10.025	.461	.604	.984	.88	.138	1.75	21703
LU245.1250.03	1.25	3.254	1.171	10.025	.586	.734	1.22	1.135	.138	1.75	21703
LU245.0750.04	.75	2.401	.672	7.047	.336	.493	.787	.716	.205	1.248	21704
LU245.1250.04	1.25	3.189	1.172	10.039	.586	.743	1.22	1.149	.205	1.656	21704

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LU245...	51.27.984P	T15PQ



C1

Carbide grades

▲ on stock

Δ 4 weeks

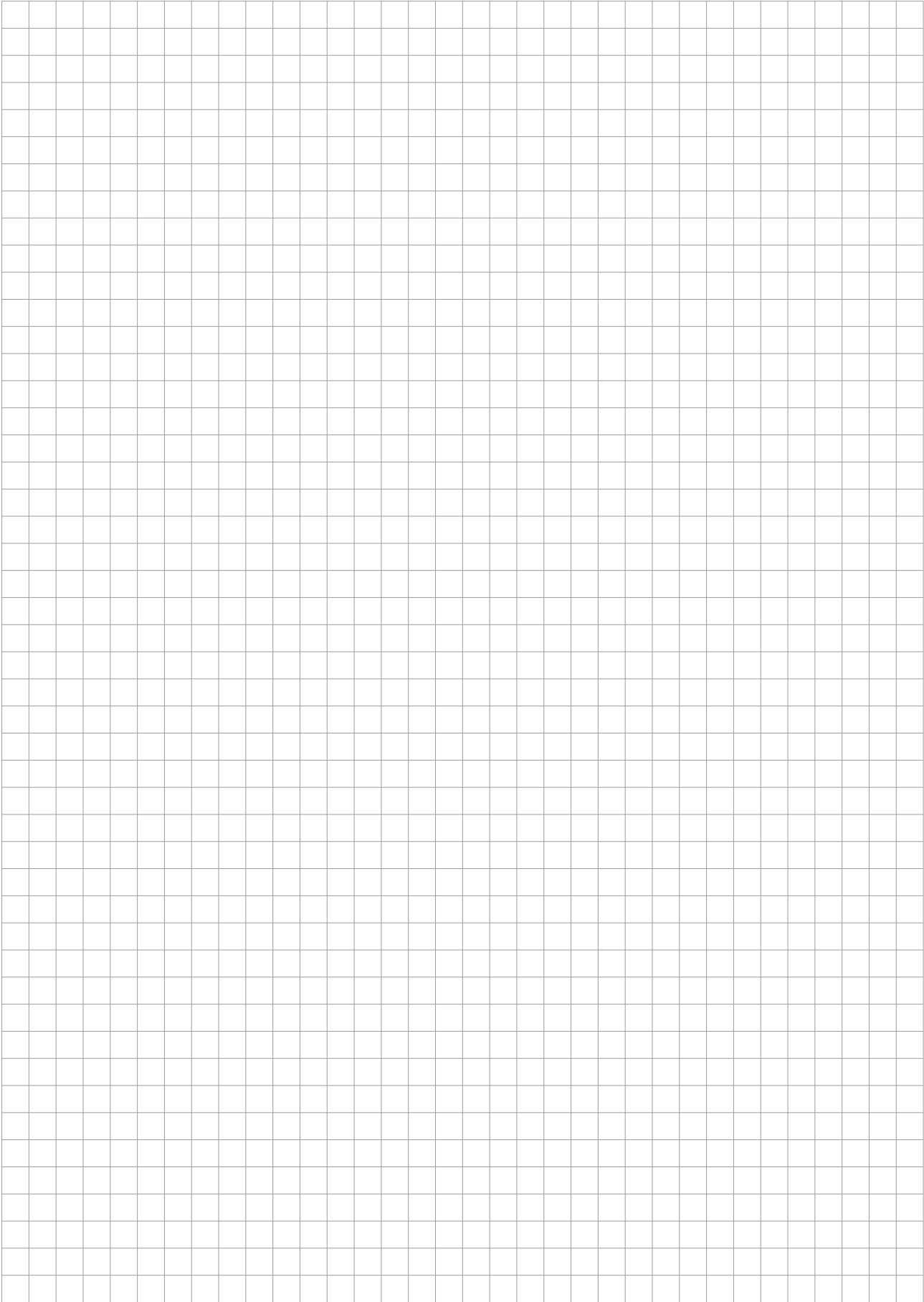
Part number	w	a ₁	HIS		K10	MG12	P20	TF45	TF46	TN32
U217.0026.00	.026	.002	21701							▲
U217.0031.00	.031	.002	21701					▲	▲	▲
U217.0034.00	.034	.002	21701		Δ					Δ
U217.0039.00	.039	.002	21701							▲
U217.0040.00	.04	.002					Δ			▲
U217.0046.00	.046	.004	21701					▲	▲	▲
U217.0056.00	.056	.004	21701		▲					▲
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 $\geq .043''$

Smaller inserts have a limited depth of groove $t_{max} = .039''$ and deeper depths are depending on $\emptyset$ of workpiece.

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

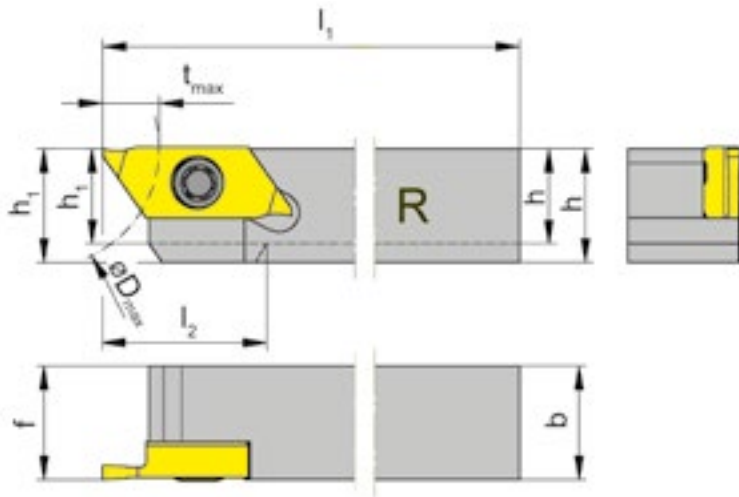
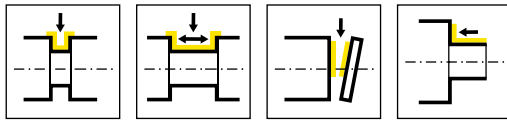
C1



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Toolholder and Inserts



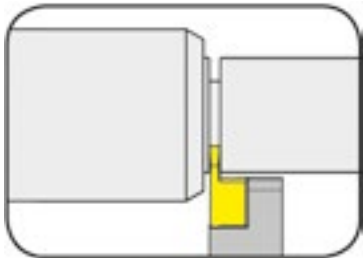
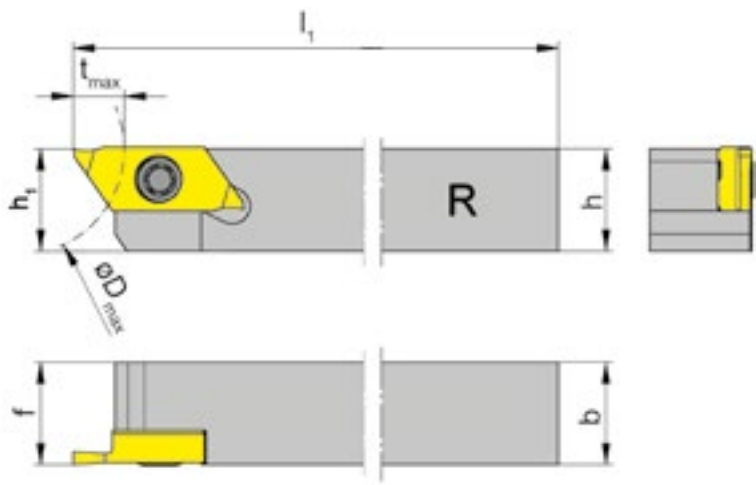
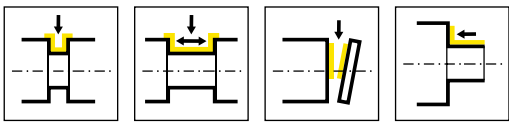
R = right hand version shown

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	.63	.4	.312	.236	.984	274040R
RHU274.0375.04	.375	.375	3.996	-	.375	.375	.236	.984	274040R
RHU274.0500.04	.5	.5	3.996	-	.5	.5	.236	.984	274040R
RHU274.0625.04	.625	.625	5.118	-	.625	.625	.236	.984	274040R
RHU274.0750.04	.75	.75	5	-	.75	.75	.236	.984	274040R
RHU274.1000.04	1	1	6	-	1	1	.236	.984	274040R
LHU274.0312.04	.312	.312	3.996	.63	.4	.312	.236	.984	274040L
LHU274.0375.04	.375	.375	3.996	-	.375	.375	.236	.984	274040L
LHU274.0500.04	.5	.5	3.996	-	.5	.5	.236	.984	274040L
LHU274.0625.04	.625	.625	5.118	-	.625	.625	.236	.984	274040L
LHU274.0750.04	.75	.75	5	-	.75	.75	.236	.984	274040L
LHU274.1000.04	1	1	6	-	1	1	.236	.984	274040L

Spare Parts

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



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	.5	.551	3.996	.5	.551	.236	.984	274070R
LHU274.0500.07	.5	.551	3.996	.5	.551	.236	.984	274070L

Toolholder for special widths resp. special insert shapes

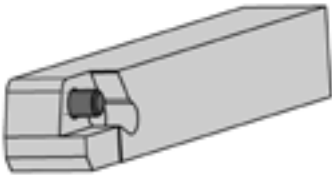
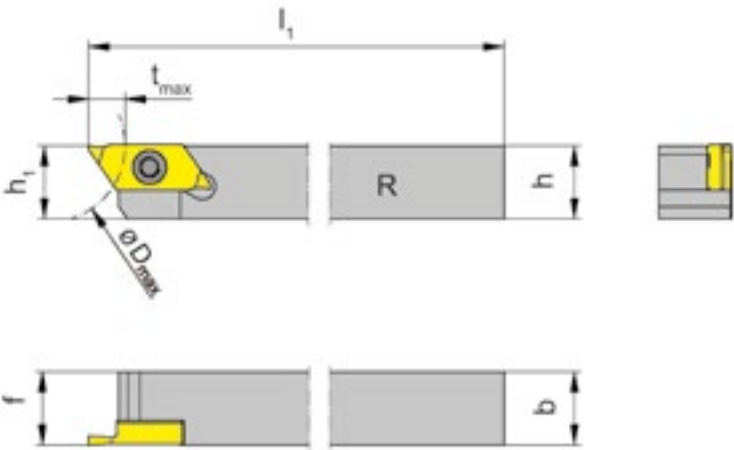
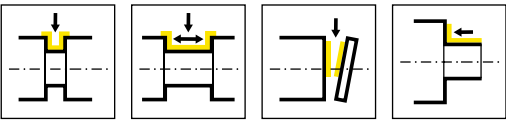
Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU274.0500.07	030.3513.T15P	T15PQ

C1

C1



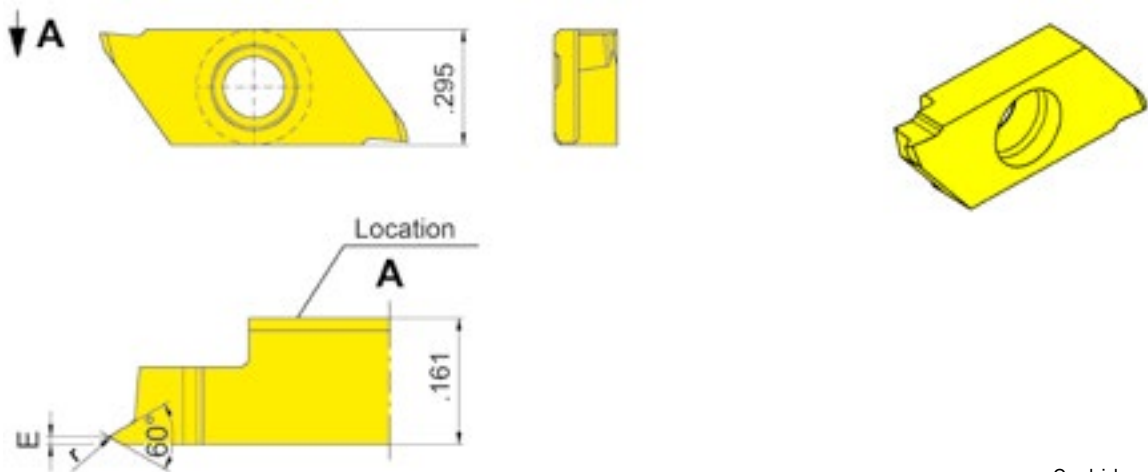
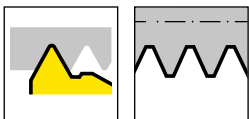
R = right hand version shown L = left hand version

Part number	h	b	l ₁	h ₁	f	t _{max}	D _{max}	HWS
RHU274.0500.04.E	.5	.5	3.996	.5	.5	.236	.984	274140R

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RHU274.0500.04.E	030.3509.T15P	T15PQ



C1

R = right hand version shown

L = left hand version

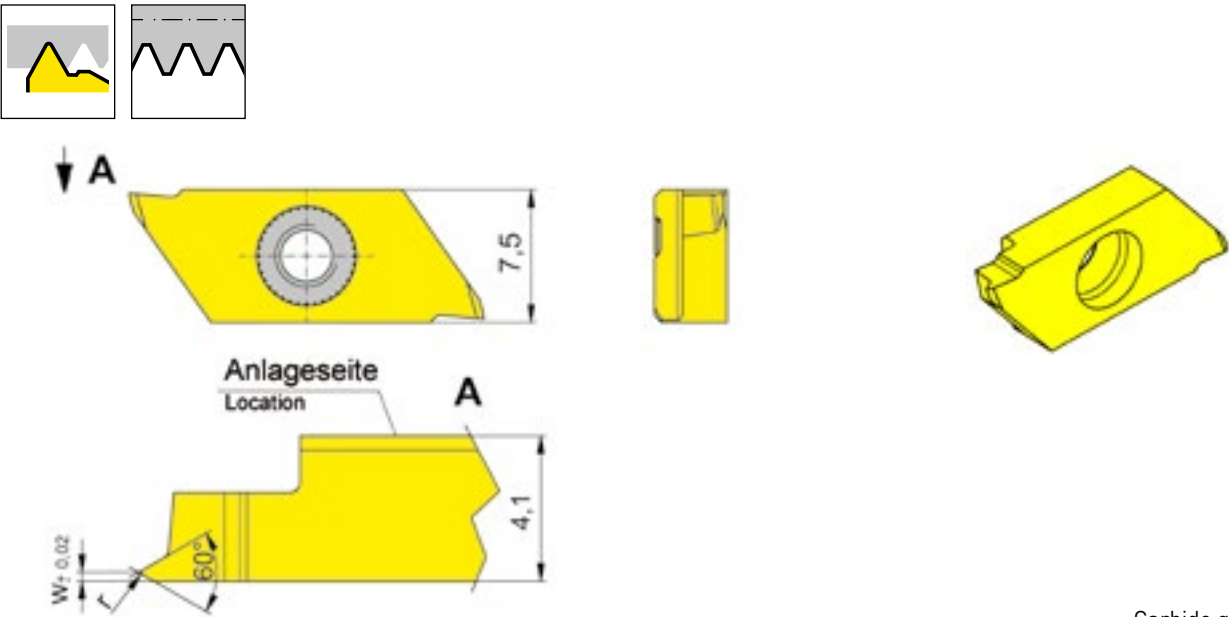
▲ on stock

Δ 4 weeks

Carbide grades

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

C1



R = right hand version shown

L = left hand version

Carbide grades
▲ on stock Δ 4 weeks

Part number	E	r	HIS	IG35	
RSU274.1220.01.E	.051	.007	274140R	▲	
RSU274.1832.01.E	.039	.005	274140R	▲	
RSU274.2864.01.E	.028	.002	274140R	▲	
Dimensions in inch				P	-
				M	●
				K	-
				N	-
				S	●
				H	-

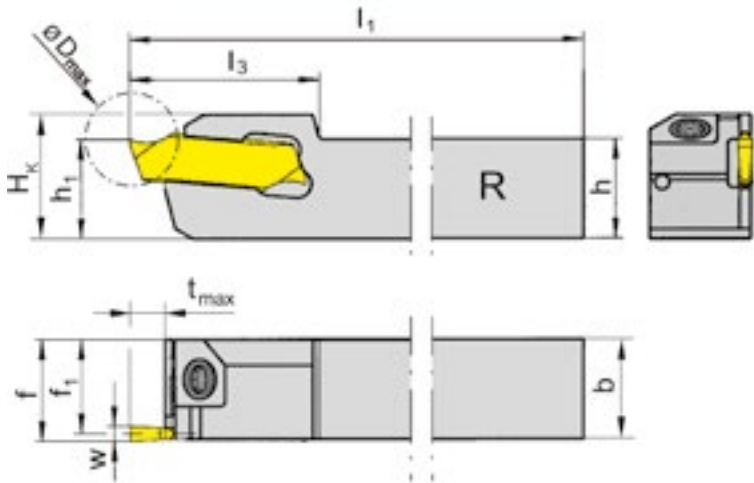
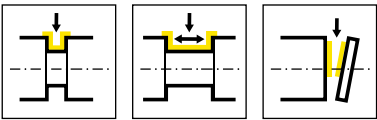
264

C1



Toolholders

C1



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	.75	.75	4.724	.689	.75	.72	.75	.157	1.26	.848	26401

w see indexable inserts

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

Spare Parts

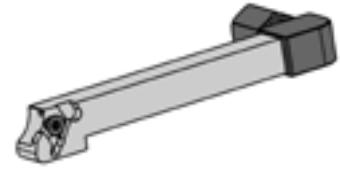
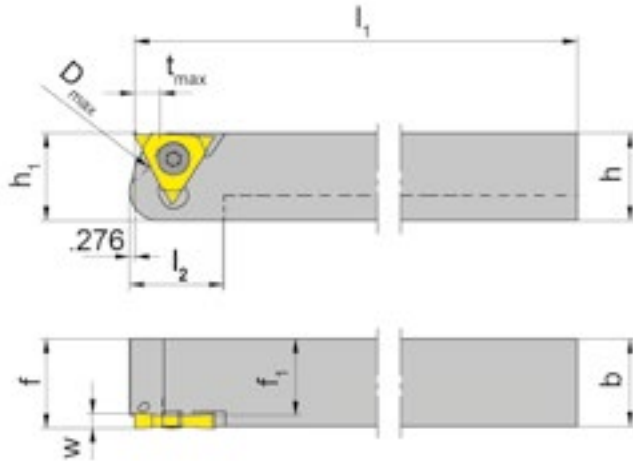
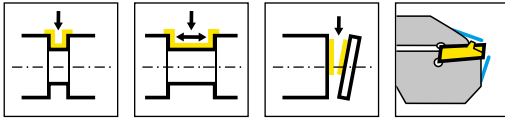
Toolholder	Clamping Screw	TORX PLUS® Wrench
LHU264.0750.01	3.5.12T10EP	T10PL

32T

C1



Toolholders



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	.61	.138	32T01N • 32T01R
RHU32T.0375.6.20.IK	.375	.375	3.996	.375	.385	f_1+s_1	.61	.138	32T02N • 32T02R
RHU32T.0500.6.10.IK	.5	.5	3.996	.5	.51	f_1+s_1	.61	.138	32T01N • 32T01R
RHU32T.0500.6.20.IK	.5	.5	3.996	.5	.51	f_1+s_1	.61	.138	32T02N • 32T02R
RHU32T.0625.6.10.IK	.625	.625	5.118	.625	.635	f_1+s_1	.61	.138	32T01N • 32T01R
RHU32T.0625.6.20.IK	.625	.625	5.118	.625	.635	f_1+s_1	.61	.138	32T02N • 32T02R
LHU32T.0375.6.10.IK	.375	.375	3.996	.375	.385	f_1+s_1	.61	.138	32T01N • 32T01R
LHU32T.0375.6.20.IK	.375	.375	3.996	.375	.385	f_1+s_1	.61	.138	32T02N • 32T02R
LHU32T.0500.6.10.IK	.5	.5	3.996	.5	.51	f_1+s_1	.61	.138	32T01N • 32T01R
LHU32T.0500.6.20.IK	.5	.5	3.996	.5	.51	f_1+s_1	.61	.138	32T02N • 32T02R
LHU32T.0625.6.10.IK	.625	.625	5.118	.625	.635	f_1+s_1	.61	.138	32T01N • 32T01R
LHU32T.0625.6.20.IK	.625	.625	5.118	.625	.635	f_1+s_1	.61	.138	32T02N • 32T02R

w, s1 see indexable inserts

For shank dimension 0.315" X 0.315" toolholder with offset head.

Dimensions in inch

Spare Parts

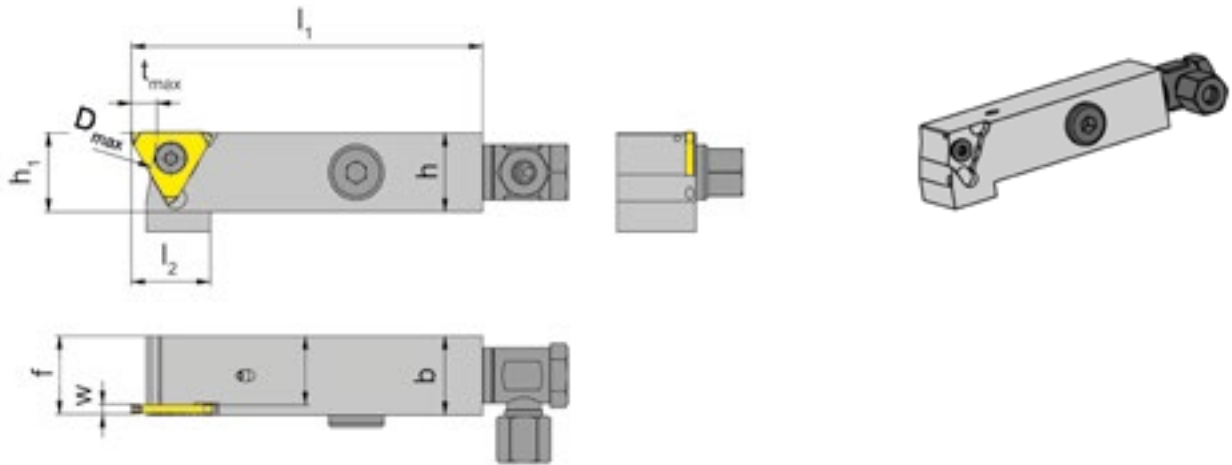
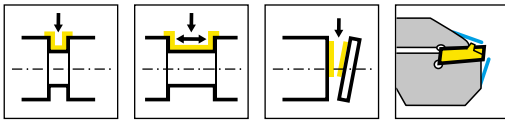
Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LHU32T....	004.00.22	030.2507.T7P	T7PL	
R/LHU32T.0625.6...	004.00.16	030.2507.T7P	T7PL	18.908

34T

C1



Toolholders



L = left hand version

Part number	h	b	l ₁	h ₁	f	D _{max}	t _{max}	HWS
RHU34T.0500.6.00.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T00L
RHU34T.0625.6.00.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T00L
RHU34T.0750.6.00.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T00L
LHU34T.0500.6.00.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T00L
LHU34T.0625.6.00.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T00L
LHU34T.0750.6.00.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T00L

Note:

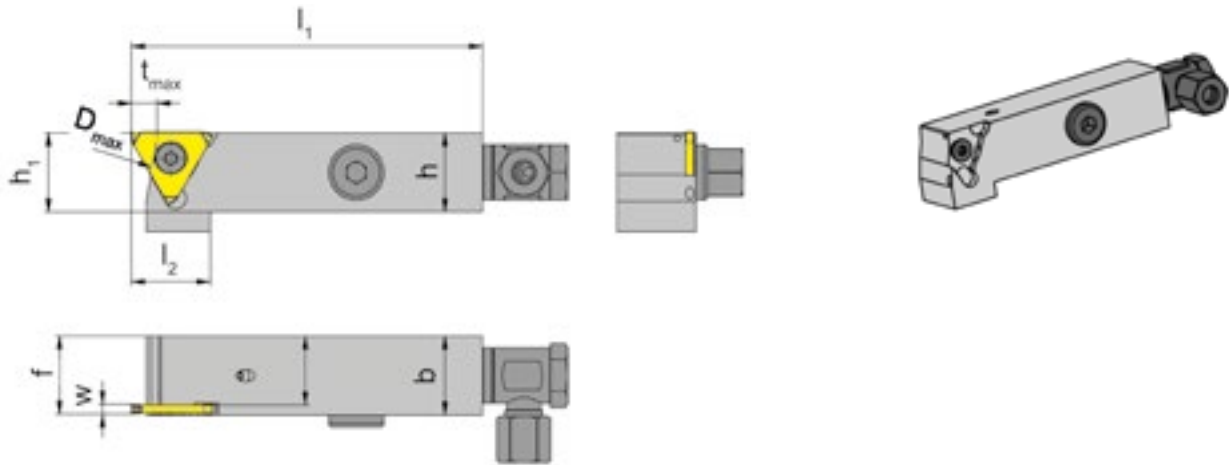
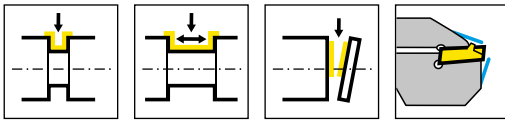
...6.00.IK = Coolant through coolant supply

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

Dimensions in inch

Spare Parts

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



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	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T01N
RHU34T.0500.6.20.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T02N
RHU34T.0500.6.30.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T03N
RHU34T.0625.6.10.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T01N
RHU34T.0625.6.20.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T02N
RHU34T.0625.6.30.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T03N
RHU34T.0625.6.40.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T04N
RHU34T.0750.6.10.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T01N
RHU34T.0750.6.20.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T02N
RHU34T.0750.6.30.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T03N
RHU34T.0750.6.40.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T04N
LHU34T.0500.6.10.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T01N
LHU34T.0500.6.20.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T02N
LHU34T.0500.6.30.IK	.5	.5	4	.5	f ₁ +w-a ₁	2.362	.256	34T03N
LHU34T.0625.6.10.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T01N
LHU34T.0625.6.20.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T02N
LHU34T.0625.6.30.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T03N
LHU34T.0625.6.40.IK	.625	.625	5	.625	f ₁ +w-a ₁	2.362	.256	34T04N
LHU34T.0750.6.10.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T01N
LHU34T.0750.6.20.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T02N
LHU34T.0750.6.30.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T03N
LHU34T.0750.6.40.IK	.75	.75	5	.75	f ₁ +w-a ₁	2.362	.256	34T04N

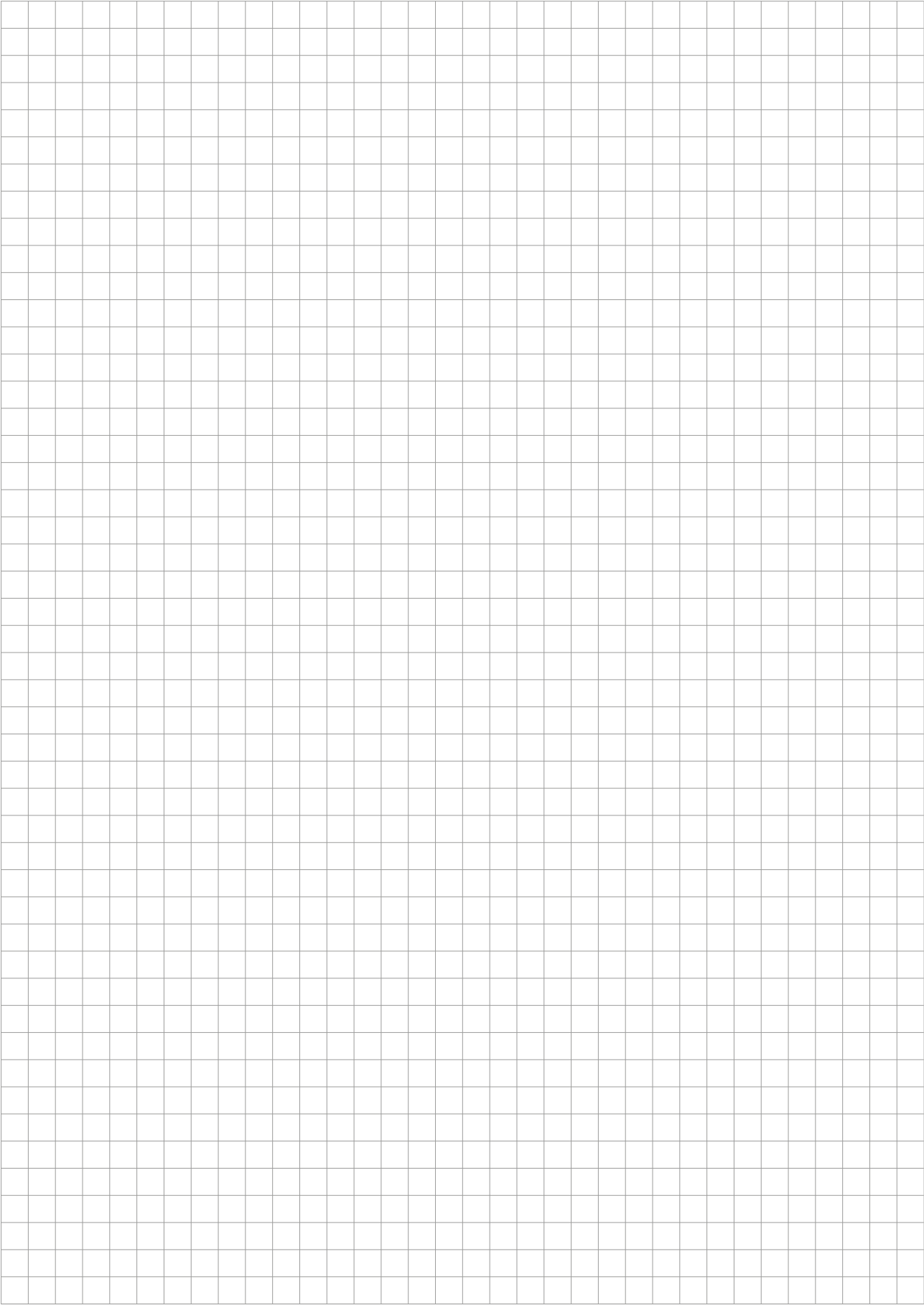
w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LHU34T.0500.6.10.IK	004.00.61	030.4093.T15P	T15PQ	
R/LHU34T.0500.6.20.IK	004.00.61	030.4010.T15P	T15PQ	
R/LHU34T.0500.6.30.IK	004.00.61	030.5012.T15P	T15PQ	
R/LHU34T....	004.00.16	030.4093.T15P	T15PQ	004.00.26
R/LHU34T....	004.00.16	030.4010.T15P	T15PQ	004.00.26
R/LHU34T....	004.00.16	030.5012.T15P	T15PQ	004.00.26

C1



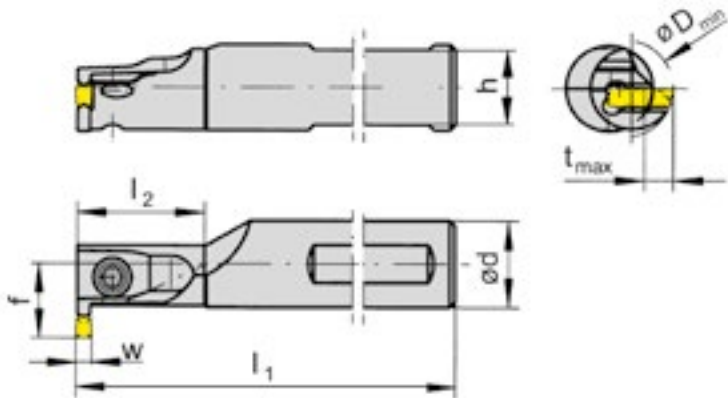
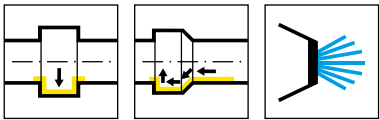
119/223

C1



Toolholders

C1



R = right hand version shown L = left hand version

Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU119.0625.1.32	.625	4.331	.984	.546	.465	.118	.625	11902
RBU119.0625.1.33	.625	4.331	.984	.546	.465	.118	.625	11903

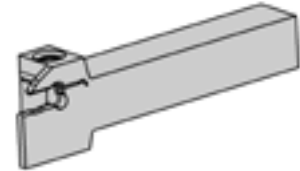
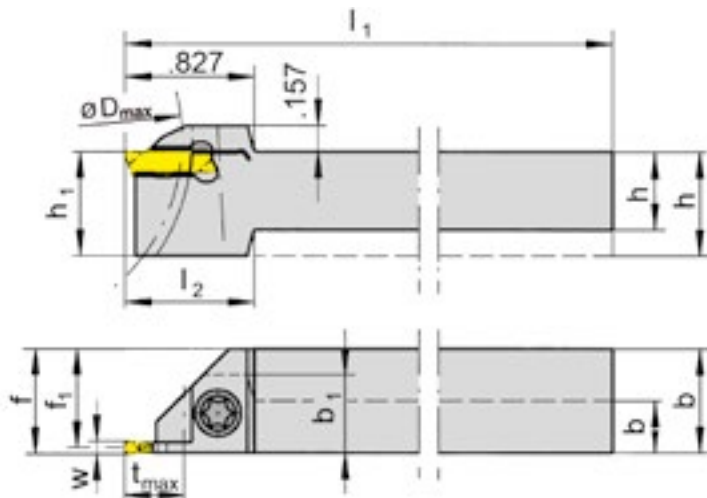
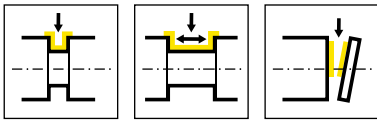
Further sizes upon request

For torque specification of the screw, please see Technical Instructions.

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RBU119...	5.11T15P	T15PL



C1

R = right hand version shown

L = left hand version

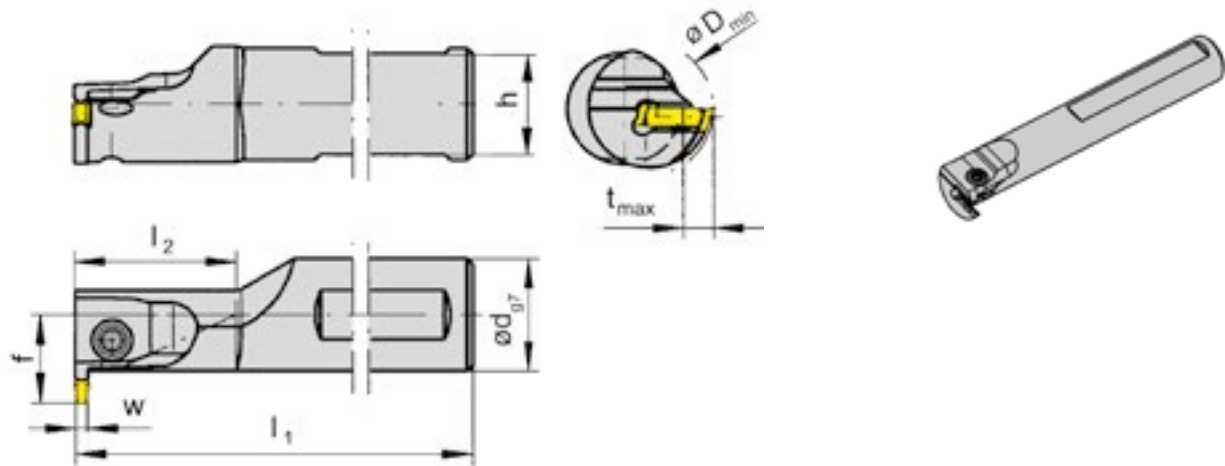
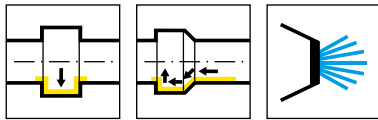
Part number	h	b	l_1	l_2	h_1	b_1	f_1	f	t_{max}	D_{max}	HWS
RHU223.0375.01	.375	.375	3.15	.787	.472	.453	.344	$f_1+w/2$	.315	.984	22301
RHU223.0500.01	.5	.5	3.996	.827	.5	-	.469	$f_1+w/2$	.394	1.969	22301
RHU223.0625.01	.625	.625	5.118	.827	.625	-	.594	$f_1+w/2$	.394	1.969	22301
RHU223.0750.01	.75	.75	5.118	.827	.75	-	.719	$f_1+w/2$	.394	1.969	22301
RHU223.1000.01	1	1	6.004	-	1	-	.969	$f_1+w/2$	.394	1.969	22301
RHU223.0375.02	.375	.375	3.15	.787	.472	.453	.338	$f_1+w/2$	.315	.984	22302
RHU223.0500.02	.5	.5	3.996	-	.5	-	.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	.75	.75	5.118	.827	.75	-	.713	$f_1+w/2$	.394	1.969	22302
RHU223.1000.02	1	1	6.004	.827	1	-	.963	$f_1+w/2$	.394	1.969	22302
RHU223.0500.03	.5	.5	3.996	.827	.5	-	.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	.75	.75	5.118	.827	.75	-	.703	$f_1+w/2$	.394	1.969	22303
RHU223.1000.03	1	1	6.004	.827	1	-	.953	$f_1+w/2$	.394	1.969	22303
LHU223.0375.01	.375	.375	3.15	.787	.472	.453	.344	$f_1+w/2$	.315	.984	22301
LHU223.0500.01	.5	.5	3.996	.827	.5	-	.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	.75	.75	5.118	.827	.75	-	.719	$f_1+w/2$	.394	1.969	22301
LHU223.1000.01	1	1	6.004	.827	1	-	.969	$f_1+w/2$	.394	1.969	22301
LHU223.0375.02	.375	.375	3.15	.787	.472	.453	.338	$f_1+w/2$	.315	.984	22302
LHU223.0500.02	.5	.5	3.996	-	.5	-	.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	.75	.75	5.118	.827	.75	-	.713	$f_1+w/2$	.394	1.969	22302
LHU223.1000.02	1	1	6.004	.827	1	-	.963	$f_1+w/2$	.394	1.969	22302
LHU223.0500.03	.5	.5	3.996	.827	.5	-	.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	.75	.75	5.118	.827	.75	-	.703	$f_1+w/2$	.394	1.969	22303
LHU223.1000.03	1	1	6.004	-	1	-	.953	$f_1+w/2$	.394	1.969	22303

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU223...	5.11T15P	T15PL



R = right hand version shown

L = left hand version

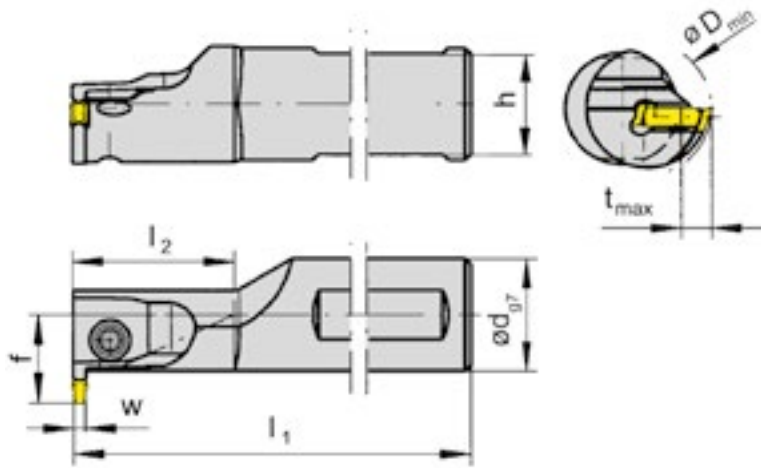
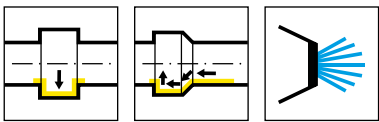
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU223.0625.1.42	.625	4.331	.984	.546	.512	.177	.709	22302
RBU223.0625.1.43	.625	4.331	.984	.546	.512	.177	.709	22303
RBU223.0750.1.52	.75	4.724	1.181	.671	.618	.209	.787	22302
RBU223.0750.1.53	.75	4.724	1.181	.671	.618	.209	.787	22303
RBU223.1000.1.62	1	6.004	1.969	.921	.74	.248	.984	22302
RBU223.1000.1.63	1	6.004	1.969	.921	.74	.248	.984	22303
LBU223.0625.1.42	.625	4.331	.984	.546	.512	.177	.709	22302
LBU223.0625.1.43	.625	4.331	.984	.546	.512	.177	.709	22303
LBU223.0750.1.52	.75	4.724	1.181	.671	.618	.209	.787	22302
LBU223.0750.1.53	.75	4.724	1.181	.671	.618	.209	.787	22303
LBU223.1000.1.62	1	6.004	1.969	.921	.74	.248	.984	22302
LBU223.1000.1.63	1	6.004	1.969	.921	.74	.248	.984	22303

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU223...	5.11T15P	T15PL



R = right hand version shown

L = left hand version

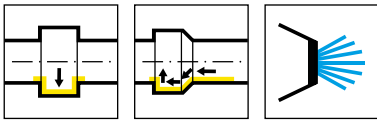
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB U 223.0625.1.22	.625	4.331	.984	.546	.512	.065	.709	22302
RB U 223.0750.1.22	.75	4.724	1.181	.671	.618	.065	.787	22302
LB U 223.0625.1.22	.625	4.331	.984	.546	.512	.065	.709	22302
LB U 223.0750.1.22	.75	4.724	1.181	.671	.618	.065	.787	22302

w see indexable inserts

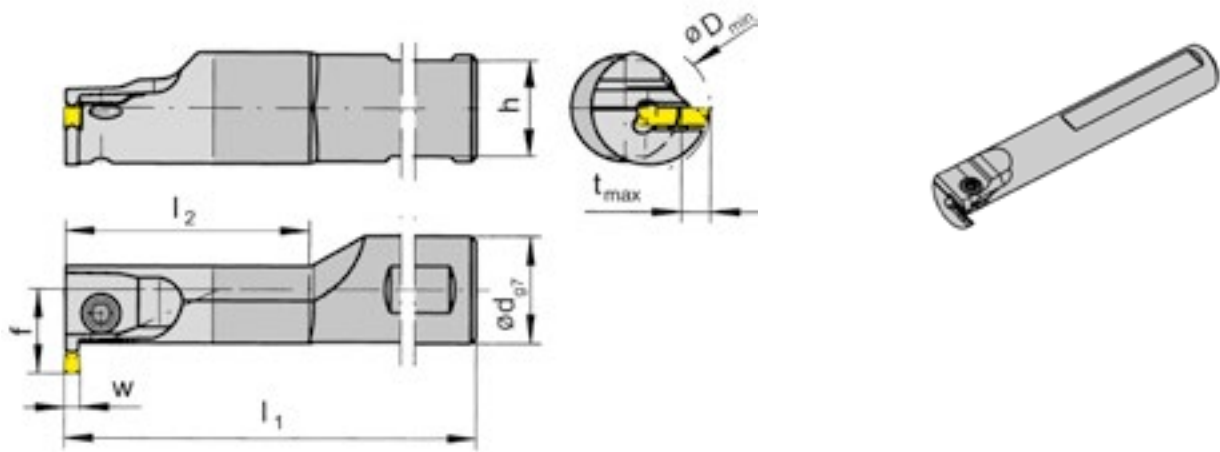
Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU223...	5.11T15P	T15PQ



C1



R = right hand version shown

L = left hand version

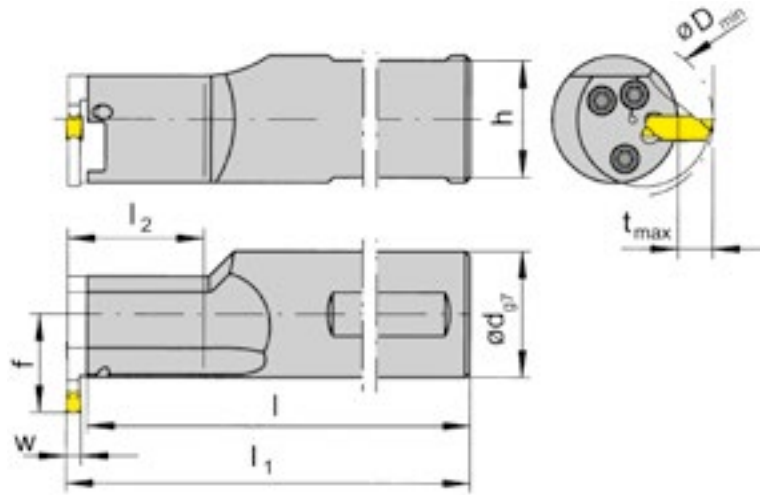
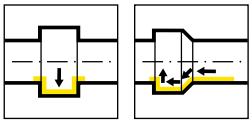
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBV223.HM06.2.42	.625	5.118	2	.546	.512	.177	.709	22302
RBV223.HM06.2.43	.625	5.118	2	.546	.512	.177	.709	22303
RBV223.HM07.2.52	.75	5.906	2.5	.671	.618	.209	.787	22302
RBV223.HM07.2.53	.75	5.906	2.5	.671	.618	.209	.787	22303
RBV223.HM10.2.62	1	6.299	2.776	.921	.74	.248	.984	22302
RBV223.HM10.2.63	1	6.299	2.756	.921	.74	.248	.984	22303
LBV223.HM06.2.42	.625	5.118	2	.546	.512	.177	.709	22302
LBV223.HM06.2.43	.625	5.118	2	.546	.512	.177	.709	22303
LBV223.HM07.2.52	.75	5.906	2.5	.671	.618	.209	.787	22302
LBV223.HM07.2.53	.75	5.906	2.5	.671	.618	.209	.787	22303
LBV223.HM10.2.62	1	6.299	2.776	.921	.74	.248	.984	22302
LBV223.HM10.2.63	1	6.299	2.756	.921	.74	.248	.984	22303

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBV223...	5.11T15P	T15PL



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	4.571	1.181	.921	.768	BK2231
RB U223.1000.2.K2	$l+b_1+w/2$	1	5.831	2.362	.921	.768	BK2231
RB U223.1250.1.K2	$l+b_1+w/2$	1.25	5.831	1.181	1.171	.906	BK2231
RB U223.1250.2.K2	$l+b_1+w/2$	1.25	6.843	2.362	1.171	.906	BK2231
LB U223.1000.1.K2	$l+b_1+w/2$	1	4.571	1.181	.921	.768	BK2231
LB U223.1000.2.K2	$l+b_1+w/2$	1	5.831	2.362	.921	.768	BK2231
LB U223.1250.1.K2	$l+b_1+w/2$	1.25	5.831	1.181	1.171	.906	BK2231
LB U223.1250.2.K2	$l+b_1+w/2$	1.25	6.843	2.362	1.171	.906	BK2231

w see indexable inserts

Dimensions for Dmin, tmax and b1 see cassettes

Dimensions in inch

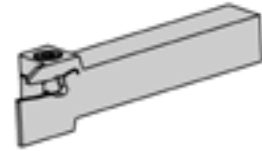
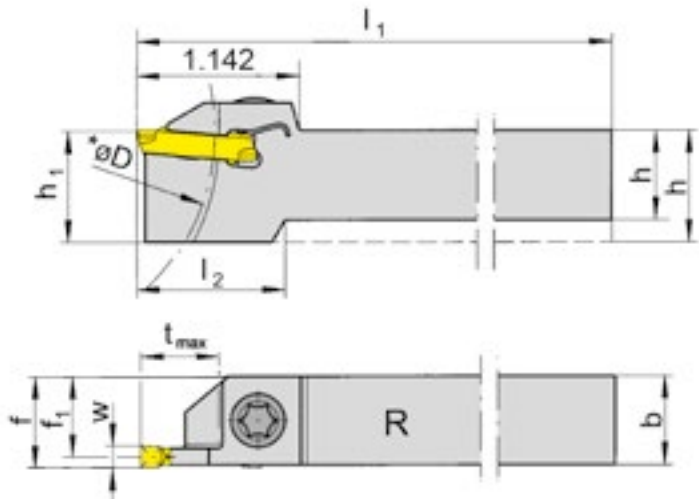
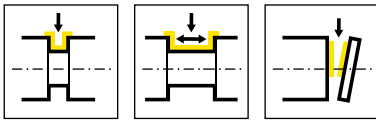
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU223....	4.09T15P	T15PL

224



Toolholders



R = right hand version shown

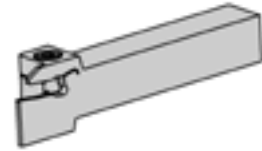
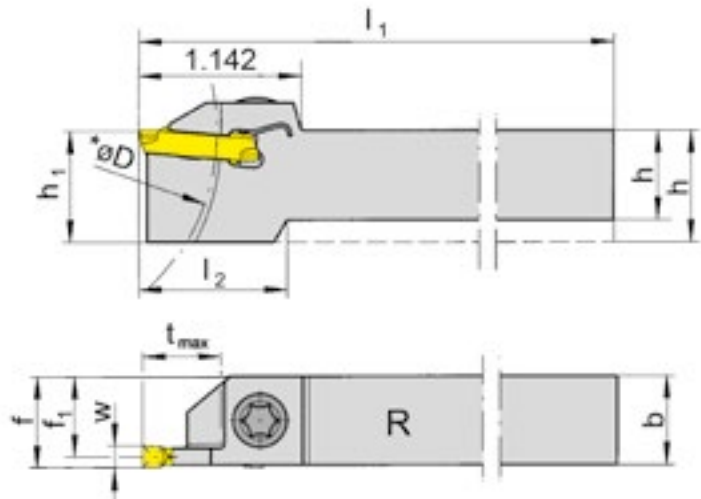
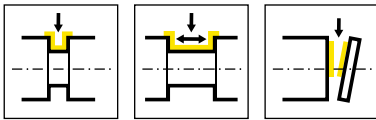
L = left hand version

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	3.15	224018
RHU224.0750.01	.75	.75	5.118	-	.75	.722	$f_1+w/2$	.551	3.15	224018
RHU224.1000.01	1	1	6.004	-	1	.972	$f_1+w/2$	.551	3.15	224018
RHU224.0625.02	.625	.625	5.118	.984	.787	.589	$f_1+w/2$	.551	3.15	224028
RHU224.0750.02	.75	.75	5.118	-	.75	.715	$f_1+w/2$	.551	3.15	224028
RHU224.1000.02	1	1	6.004	-	1	.965	$f_1+w/2$	.551	3.15	224028
RHU224.0625.03	.625	.625	4.921	.984	.787	.581	$f_1+w/2$	.551	3.15	224038
RHU224.0750.03	.75	.75	5.118	-	.75	.707	$f_1+w/2$	.551	3.15	224038
RHU224.1000.03	1	1	6.004	-	1	.957	$f_1+w/2$	.551	3.15	224038
LHU224.0625.01	.625	.625	5.118	.984	.787	.597	$f_1+w/2$	.551	3.15	224018
LHU224.0750.01	.75	.75	5.118	-	.75	.722	$f_1+w/2$	.551	3.15	224018
LHU224.1000.01	1	1	6.004	-	1	.972	$f_1+w/2$	.551	3.15	224018
LHU224.0625.02	.625	.625	5.118	.984	.787	.589	$f_1+w/2$	.551	3.15	224028
LHU224.0750.02	.75	.75	5.118	-	.75	.715	$f_1+w/2$	.551	3.15	224028
LHU224.1000.02	1	1	6.004	-	1	.965	$f_1+w/2$	.551	3.15	224028
LHU224.0625.03	.625	.625	4.921	.984	.787	.581	$f_1+w/2$	.551	3.15	224038
LHU224.0750.03	.75	.75	5.118	-	.75	.707	$f_1+w/2$	.551	3.15	224038
LHU224.1000.03	1	1	6.004	-	1	.957	$f_1+w/2$	.551	3.15	224038

w see indexable inserts

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU224...	6.23T25P	T25PQ



C2

R = right hand version shown

L = left hand version

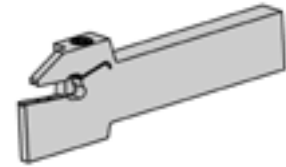
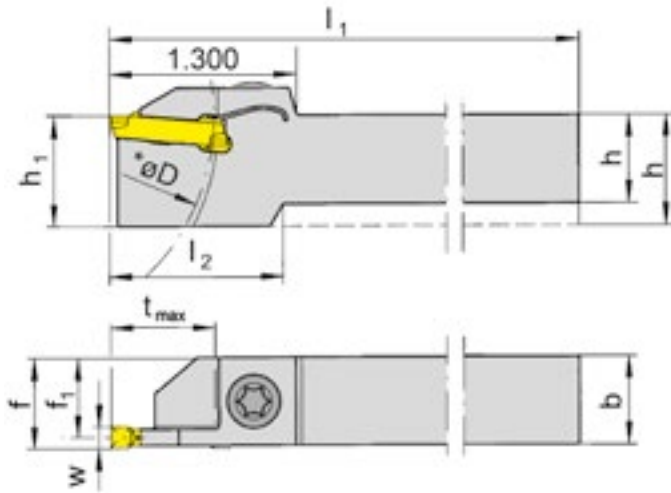
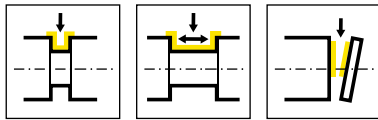
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	D _{max}	HWS
RHU224.0625.04	.625	.625	5.118	.984	.787	.568	f ₁ +w/2	.551	3.15	224048
RHU224.0750.04	.75	.75	5.118	-	.75	.693	f ₁ +w/2	.551	3.15	224048
RHU224.1000.04	1	1	6.004	-	1	.943	f ₁ +w/2	.551	3.15	224048
RHU224.0625.05	.625	.625	5.118	.984	.787	.552	f ₁ +w/2	.551	3.15	224058
RHU224.0750.05	.75	.75	5.118	-	.75	.677	f ₁ +w/2	.551	3.15	224058
RHU224.0750.06	.75	.75	5.118	-	.75	.661	f ₁ +w/2	.551	3.15	224068
RHU224.1000.05	1	1	6.004	-	1	.927	f ₁ +w/2	.551	3.15	224058
RHU224.1000.06	1	1	6.004	-	1	.911	f ₁ +w/2	.551	3.15	224068
LHU224.0625.04	.625	.625	5.118	.984	.787	.568	f ₁ +w/2	.551	3.15	224048
LHU224.0750.04	.75	.75	5.118	-	.75	.693	f ₁ +w/2	.551	3.15	224048
LHU224.1000.04	1	1	6.004	-	1	.943	f ₁ +w/2	.551	3.15	224048
LHU224.0750.05	.75	.75	5.118	-	.75	.677	f ₁ +w/2	.551	3.15	224058
LHU224.1000.05	1	1	6.004	-	1	.927	f ₁ +w/2	.551	3.15	224058
LHU224.0750.06	.75	.75	5.118	-	.75	.661	f ₁ +w/2	.551	3.15	224068
LHU224.1000.06	1	1	6.004	-	1	.911	f ₁ +w/2	.551	3.15	224068

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU224...	6.23T25P	T25PQ



R = right hand version shown

L = left hand version

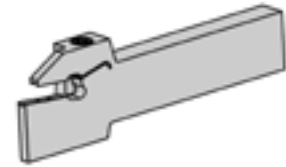
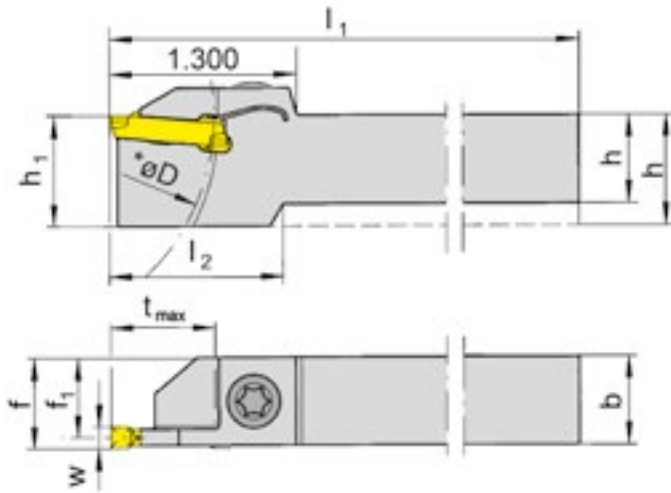
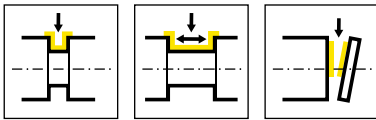
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
RHU224.0625.21	.625	.625	5.118	1.299	.787	.597	$f_1+w/2$	.709	3.15	224018
RHU224.0750.21	.75	.75	4.921	1.299	.75	.722	$f_1+w/2$	.709	3.15	224018
RHU224.1000.21	1	1	6.004	1.299	1	.972	$f_1+w/2$	.709	3.15	224018
RHU224.0625.22	.625	.625	5.118	1.299	.787	.589	$f_1+w/2$	.709	3.15	224028
RHU224.0750.22	.75	.75	4.921	1.299	.75	.715	$f_1+w/2$	.709	3.15	224028
RHU224.1000.22	1	1	6.004	1.299	1	.965	$f_1+w/2$	.709	3.15	224028
RHU224.0625.23	.625	.625	4.921	1.299	.787	.581	$f_1+w/2$	.709	3.15	224038
RHU224.0750.23	.75	.75	4.921	1.299	.75	.707	$f_1+w/2$	.709	3.15	224038
RHU224.1000.23	1	1	6.004	1.299	1	.957	$f_1+w/2$	.709	3.15	224038
LHU224.0625.21	.625	.625	5.118	1.299	.787	.597	$f_1+w/2$	.709	3.15	224018
LHU224.0750.21	.75	.75	4.921	1.299	.75	.722	$f_1+w/2$	.709	3.15	224018
LHU224.1000.21	1	1	6.004	1.299	1	.972	$f_1+w/2$	.709	3.15	224018
LHU224.0625.22	.625	.625	5.118	1.299	.787	.589	$f_1+w/2$	.709	3.15	224028
LHU224.0750.22	.75	.75	4.921	1.299	.75	.715	$f_1+w/2$	.709	3.15	224028
LHU224.1000.22	1	1	6.004	1.299	1	.965	$f_1+w/2$	.709	3.15	224028
LHU224.0625.23	.625	.625	4.921	1.299	.787	.581	$f_1+w/2$	.709	3.15	224038
LHU224.0750.23	.75	.75	4.921	1.299	.75	.707	$f_1+w/2$	.709	3.15	224038
LHU224.1000.23	1	1	6.004	1.299	1	.957	$f_1+w/2$	.709	3.15	224038

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU224...	6.23T25P	T25PQ



C2

R = right hand version shown

L = left hand version

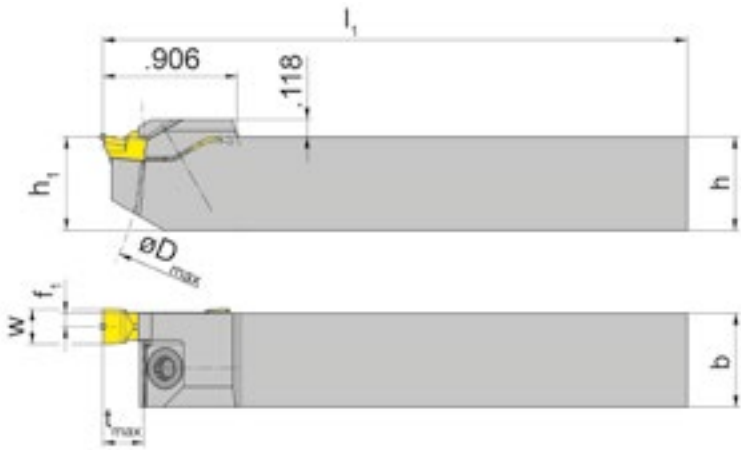
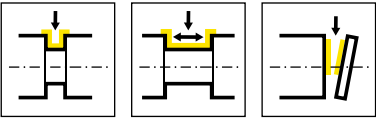
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
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RHU224.0750.24	.75	.75	4.921	1.299	.75	.693	$f_1+w/2$	.709	3.15	224048
RHU224.1000.24	1	1	6.004	1.299	1	.943	$f_1+w/2$	.709	3.15	224048
RHU224.0625.25	.625	.625	5	1.299	.787	.552	$f_1+w/2$	.709	3.15	224058
RHU224.0750.25	.75	.75	4.921	1.299	.75	.677	$f_1+w/2$	.709	3.15	224058
RHU224.1000.25	1	1	6.004	1.299	1	.927	$f_1+w/2$	.709	3.15	224058
RHU224.0625.26	.625	.625	5.118	1.299	.787	.536	$f_1+w/2$	.709	3.15	224068
RHU224.0750.26	.75	.75	5.118	1.299	.75	.661	$f_1+w/2$	.709	3.15	224068
RHU224.1000.26	1	1	6.004	1.299	1	.911	$f_1+w/2$	.709	3.15	224068
LHU224.0625.24	.625	.625	5.118	1.299	.787	.568	$f_1+w/2$	.709	3.15	224048
LHU224.0750.24	.75	.75	4.921	1.299	.75	.693	$f_1+w/2$	.709	3.15	224048
LHU224.1000.24	1	1	6.004	1.299	1	.943	$f_1+w/2$	.709	3.15	224048
LHU224.0625.25	.625	.625	5	1.299	.787	.552	$f_1+w/2$	.709	3.15	224058
LHU224.0750.25	.75	.75	4.921	1.299	.75	.677	$f_1+w/2$	.709	3.15	224058
LHU224.1000.25	1	1	6.004	1.299	1	.927	$f_1+w/2$	.709	3.15	224058
LHU224.0625.26	.625	.625	5.118	1.299	.787	.536	$f_1+w/2$	.709	3.15	224068
LHU224.0750.26	.75	.75	4.921	1.299	.75	.661	$f_1+w/2$	.709	3.15	224068
LHU224.1000.26	1	1	6.004	1.299	1	.911	$f_1+w/2$	.709	3.15	224068

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU224...	6.23T25P	T25PQ



R = right hand version shown

L = left hand version

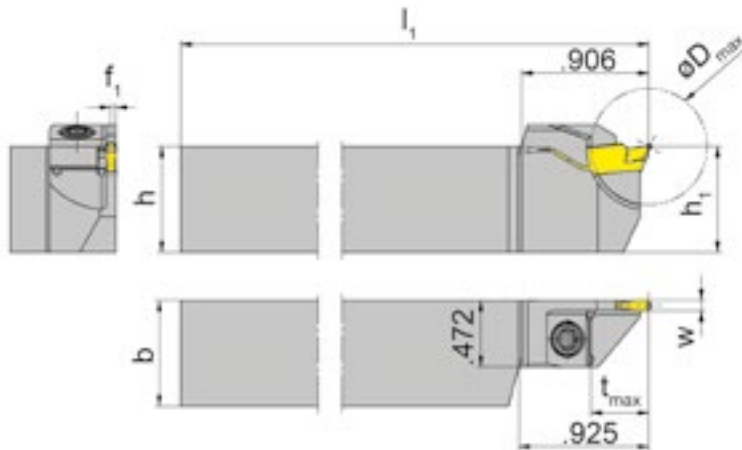
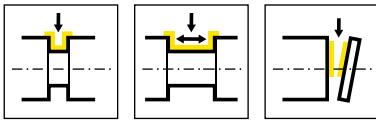
Part number	l_1	h_1	f_1	b	HWS
RHU224.0500.61	4	.5	.028	.5	224018
RHU224.0500.63	4	.5	.043	.5	224038

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RHU224...	4.12T15EP	T15PQ



R = right hand version shown

L = left hand version

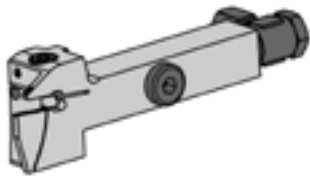
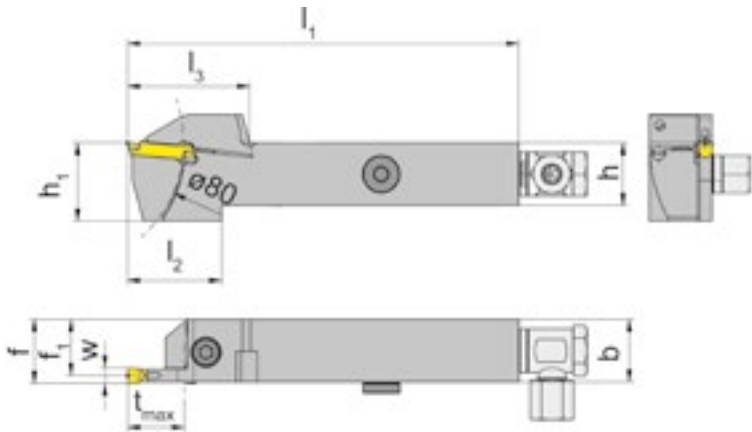
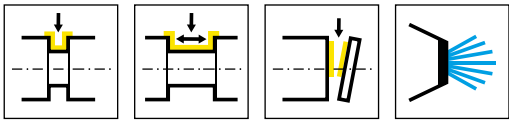
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	D_{max}	HWS
RHU224.0500.20.61	.5	.5	4	.906	.5	.028	$f_1+w/2$	.413	.827	224018
RHU224.0625.20.61	.625	.625	3.937	.906	.625	.028	$f_1+w/2$	.413	.827	224018
RHU224.0750.20.61	.75	.75	5.118	.906	.75	.028	$f_1+w/2$	.413	.827	224018
RHU224.0500.20.62	.5	.5	4	.906	.5	.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	.75	.75	5.118	.906	.75	.035	$f_1+w/2$	.413	.827	224028
RHU224.0500.20.63	.5	.5	4	.906	.5	.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	.75	.75	5.118	.906	.75	.043	$f_1+w/2$	.413	.827	224038
LHU224.0500.20.61	.5	.5	4	.906	.5	.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	.75	.75	5.118	.906	.75	.028	$f_1+w/2$	.413	.827	224018
LHU224.0500.20.62	.5	.5	4	.906	.5	.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	.5	.5	4	.906	.5	.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	.75	.75	5.118	.906	.75	.043	$f_1+w/2$	.413	.827	224038

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU224...	4.12T15EP	T15PQ



R = right hand version shown L = left hand version

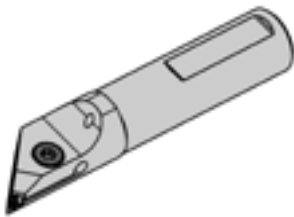
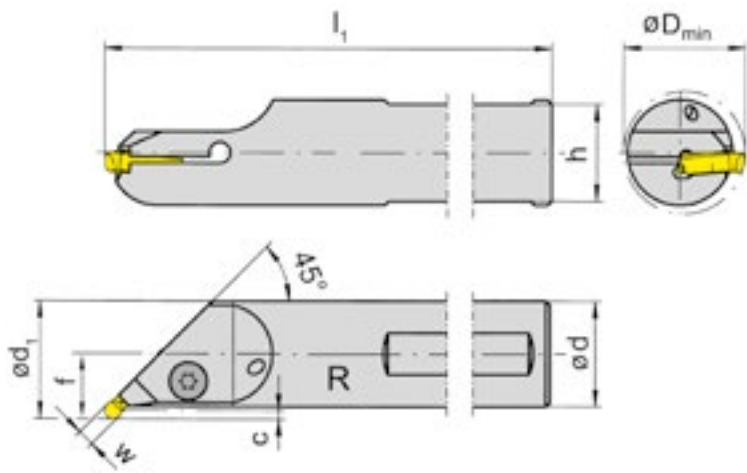
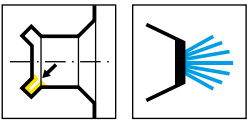
Part number	b	l_1	l_2	l_3	h_1	f_1	t_{max}	HWS
RHU224.1000.6.03.IK	1	6.004	1.024	1.378	1.197	.951	.551	224039
LHU224.1000.6.03.IK	1	6.004	1.024	1.378	1.197	.951	.551	224039

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench
R/LHU224.1000.6.03.IK	004.00.61	6.23T25P	T25PQ



R = right hand version shown

L = left hand version

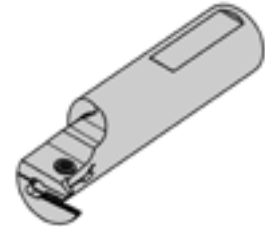
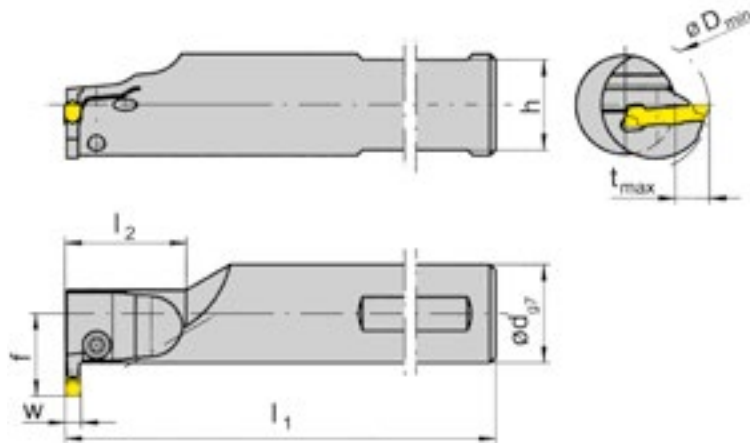
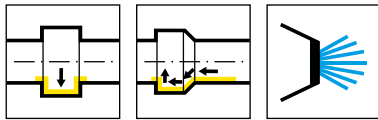
Part number	d	l ₁	f	C	D _{min}	d ₁	Width of groove	HWS
RB U 224.4510.0.04	1	6.004	.618	.098	1.157	1.118	.110-.173	224038 • 224048

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RB U 224.4510.0.04	6.14T25P	T25PQ

C2



R = right hand version shown

L = left hand version

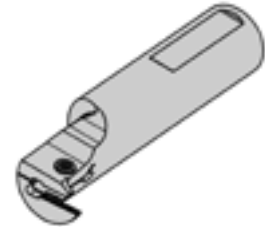
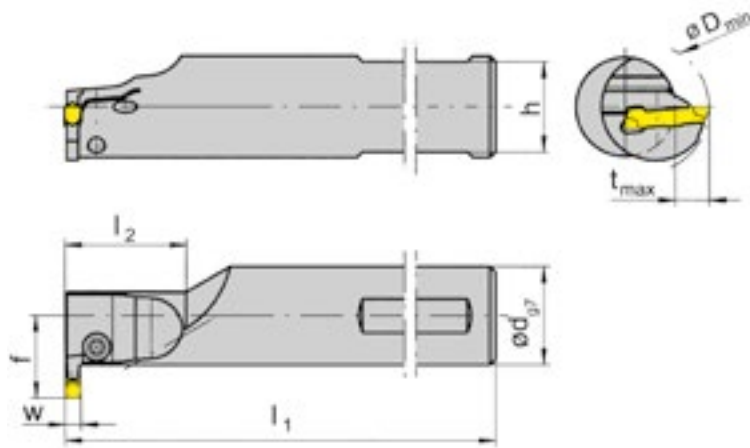
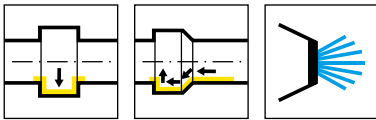
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU224.0750.1.01	.75	5.118	1.181	.671	.728	.315	1.102	224018
RBU224.1000.1.01	1	5.118	1.181	.921	.827	.315	1.102	224018
RBU224.0750.1.02	.75	5.118	1.181	.671	.728	.315	1.102	224028
RBU224.1000.1.02	1	5.118	1.181	.921	.827	.315	1.102	224028
RBU224.0750.1.03	.75	5.118	1.181	.671	.728	.315	1.102	224038
RBU224.1000.1.03	1	5.118	1.181	.921	.827	.315	1.102	224038
RBU224.1250.1.03	1.25	6.004	1.181	1.171	.965	.315	1.102	224038
RBU224.0750.1.04	.75	5.118	1.181	.671	.728	.315	1.102	224048
RBU224.1000.1.04	1	5.118	1.181	.921	.827	.315	1.102	224048
RBU224.1250.1.04	1.25	6.004	1.181	1.171	.965	.315	1.102	224048
RBU224.0750.1.05	.75	5.118	1.181	.671	.728	.315	1.102	224058
RBU224.1000.1.05	1	5.118	1.181	.921	.827	.315	1.102	224058
RBU224.1000.1.06	1	5.118	1.181	.921	.827	.315	1.102	224068
LBU224.0750.1.01	.75	5.118	1.181	.671	.728	.315	1.102	224018
LBU224.1000.1.01	1	5.118	1.181	.921	.827	.315	1.102	224018
LBU224.0750.1.02	.75	5.118	1.181	.671	.728	.315	1.102	224028
LBU224.1000.1.02	1	5.118	1.181	.921	.827	.315	1.102	224028
LBU224.0750.1.03	.75	5.118	1.181	.671	.728	.315	1.102	224038
LBU224.1000.1.03	1	5.118	1.181	.921	.827	.315	1.102	224038
LBU224.1250.1.03	1.25	6.004	1.181	1.171	.965	.315	1.102	224038
LBU224.0750.1.04	.75	5.118	1.181	.671	.728	.315	1.102	224048
LBU224.1000.1.04	1	5.118	1.181	.921	.827	.315	1.102	224048
LBU224.1250.1.04	1.25	6.004	1.181	1.171	.965	.315	1.102	224048
LBU224.1000.1.05	1	5.118	1.181	.921	.827	.315	1.102	224058
LBU224.1000.1.06	1	5.118	1.181	.921	.827	.315	1.102	224068

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224...	5.13T20EP	T20PQ



C2

R = right hand version shown

L = left hand version

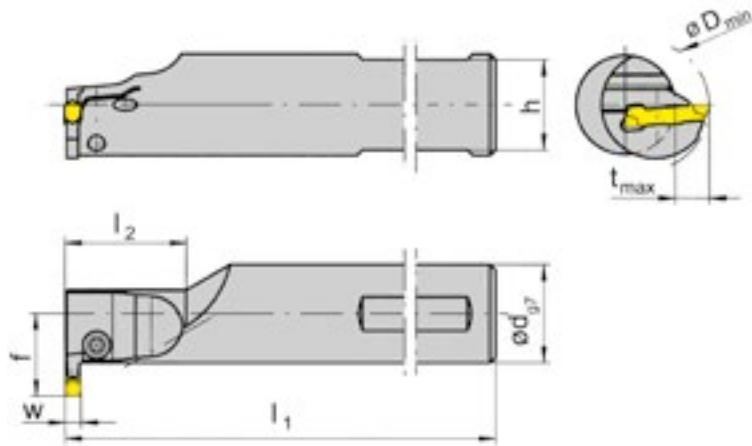
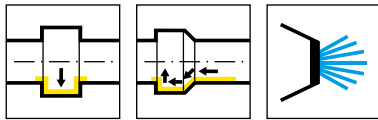
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RB U224.1000.1.13	1	5.118	1.181	.921	.925	.394	1.26	224038
RB U224.1250.1.13	1.25	6.004	1.181	1.171	1.102	.433	1.26	224038
RB U224.1000.1.14	1	5.118	1.181	.921	.925	.394	1.26	224048
RB U224.1250.1.14	1.25	6.004	1.181	1.171	1.102	.433	1.26	224048
RB U224.1250.1.15	1.25	6.004	1.181	1.171	1.102	.433	1.26	224058
RB U224.1250.1.16	1.25	6.004	1.181	1.171	1.102	.433	1.26	224068
RB U224.1500.1.25	1.5	7.008	1.181	1.421	1.299	.512	1.496	224058
RB U224.1500.1.26	1.5	7.008	1.181	1.421	1.299	.512	1.496	224068
LB U224.1000.1.13	1	5.118	1.181	.921	.925	.394	1.26	224038
LB U224.1250.1.13	1.25	6.004	1.181	1.171	1.102	.433	1.26	224038
LB U224.1000.1.14	1	5.118	1.181	.921	.925	.394	1.26	224048
LB U224.1250.1.14	1.25	6.004	1.181	1.171	1.102	.433	1.26	224048
LB U224.1250.1.15	1.25	6.004	1.181	1.171	1.102	.433	1.26	224058
LB U224.1250.1.16	1.25	6.004	1.181	1.171	1.102	.433	1.26	224068
LB U224.1500.1.25	1.5	7.008	1.181	1.421	1.299	.512	1.496	224058
LB U224.1500.1.26	1.5	7.008	1.181	1.421	1.299	.512	1.496	224068

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224...	5.13T20EP	T20PQ



R = right hand version shown

L = left hand version

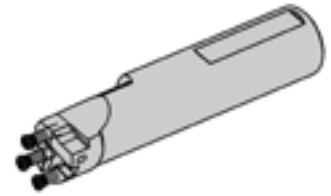
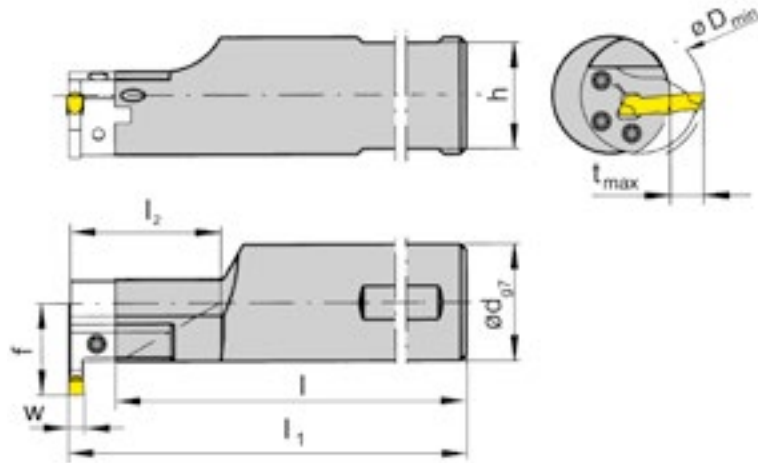
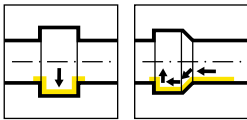
Part number	d	l ₁	l ₂	h	f	t _{max}	D _{min}	HWS
RBU224.0750.2.01	.75	5.118	1.772	.671	.728	.315	1.102	224018
RBU224.1000.2.01	1	6.004	1.969	.921	.827	.315	1.102	224018
RBU224.0750.2.02	.75	5.118	1.772	.671	.728	.315	1.102	224028
RBU224.1000.2.02	1	6.004	1.969	.921	.827	.315	1.102	224028
RBU224.1000.2.03	1	6.004	1.969	.921	.827	.315	1.102	224038
RBU224.1250.2.03	1.25	7.008	1.969	1.171	.965	.315	1.102	224038
RBU224.1000.2.04	1	6.004	1.969	.921	.827	.315	1.102	224048
RBU224.1250.2.04	1.25	7.008	1.969	1.171	.965	.315	1.102	224048
RBU224.1250.2.13	1.25	7.008	1.969	1.171	1.102	.433	1.26	224038
RBU224.1250.2.14	1.25	7.008	1.969	1.171	1.102	.433	1.26	224048
LBU224.0750.2.01	.75	5.118	1.772	.671	.728	.315	1.102	224018
LBU224.1000.2.01	1	6.004	1.969	.921	.827	.315	1.102	224018
LBU224.0750.2.02	.75	5.118	1.772	.671	.728	.315	1.102	224028
LBU224.1000.2.02	1	6.004	1.969	.921	.827	.315	1.102	224028
LBU224.1000.2.03	1	6.004	1.969	.921	.827	.315	1.102	224038
LBU224.1250.2.03	1.25	7.008	1.969	1.171	.965	.315	1.102	224038
LBU224.1000.2.04	1	6.004	1.969	.921	.827	.315	1.102	224048
LBU224.1250.2.04	1.25	7.008	1.969	1.171	.965	.315	1.102	224048
LBU224.1250.2.13	1.25	7.008	1.969	1.171	1.102	.433	1.26	224038
LBU224.1250.2.14	1.25	7.008	1.969	1.171	1.102	.433	1.26	224048

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224...	5.13T20EP	T20PQ



C2

R = right hand version shown

L = left hand version

Part number	l_1	d	l	l_2	h	f	HWS
RB224.1250.1.K2	$l+b_1+w/2$	1.25	5.465	1.181	1.171	1.102	BK2242
RB224.1500.1.K2	$l+b_1+w/2$	1.5	6.469	1.181	1.421	1.22	BK2242
RB224.1250.2.K2	$l+b_1+w/2$	1.25	6.469	2.362	1.171	1.102	BK2242
RB224.1500.2.K2	$l+b_1+w/2$	1.5	7.453	2.362	1.421	1.22	BK2242
LB224.1250.1.K2	$l+b_1+w/2$	1.25	5.465	1.181	1.171	1.102	BK2242
LB224.1500.1.K2	$l+b_1+w/2$	1.5	6.469	1.181	1.421	1.22	
LB224.1250.2.K2	$l+b_1+w/2$	1.25	6.469	2.362	1.171	1.102	BK2242
LB224.1500.2.K2	$l+b_1+w/2$	1.5	7.453	2.362	1.421	1.22	BK2242

w see indexable inserts

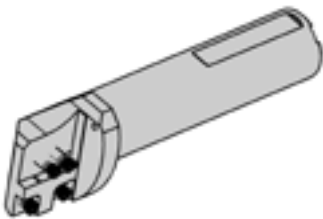
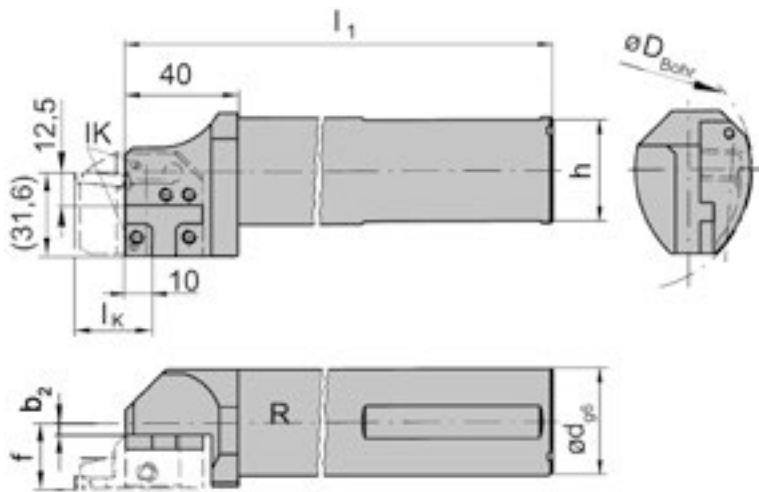
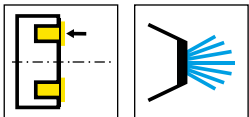
Dimensions for Dmin, tmax and b1 see cassettes

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

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224...	030.0518.T20P	T20PQ



R = right hand version shown

L = left hand version

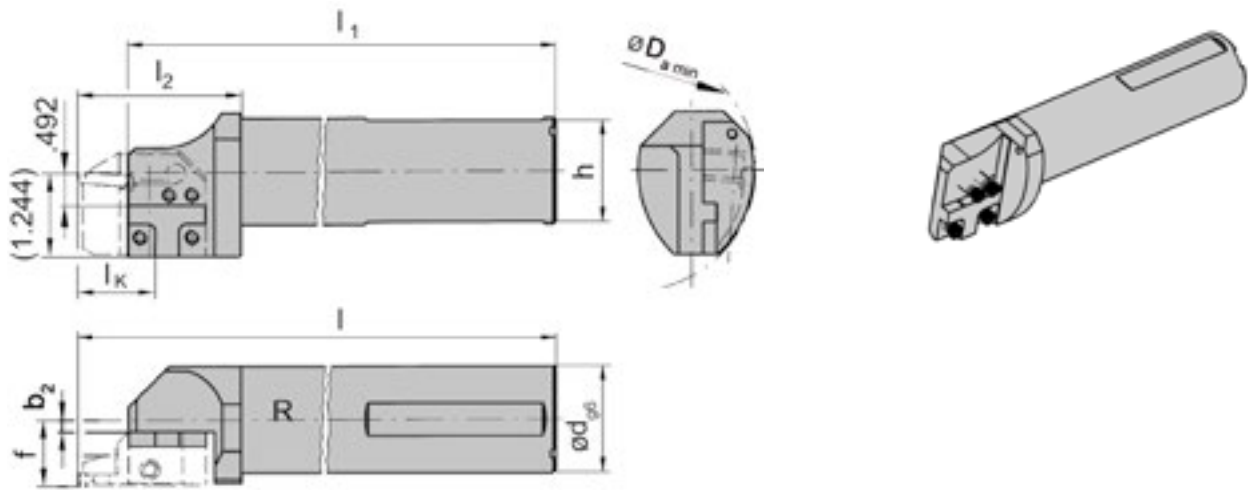
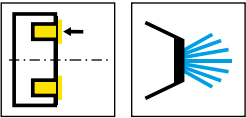
Part number	f	d	l_1	h	b_2	D_{Bohr}	HWS
RBU224.1250.K1.IK	b_2+f_3	1.25	7.126	1.171	.016	3.543	220001
RBU224.1500.K1.IK	b_2+f_3	1.5	9.094	1.421	.174	3.543	220001
LBU224.1250.K1.IK	b_2+f_3	1.25	7.126	1.171	.016	3.543	220002
LBU224.1500.K1.IK	b_2+f_3	1.5	9.094	1.421	.174	3.543	220002

Da min / f3 / lK see cassettes

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224...	5.12T20P	T20PQ



R = right hand version shown

L = left hand version

Part number	f	d	l ₁	h	l ₂	b ₂	D _{Bohr}	HWS
RBU224.1500.K1	b ₂ +f ₃	1.5	9.094	1.421	2.323	.174	3.543	220001
RBU224.1250.K1.IK	b ₂ +f ₃	1.25	7.126	1.171	2.323	.016	3.543	220001
RBU224.1500.K1.IK	b ₂ +f ₃	1.5	9.094	1.421	2.323	.174	3.543	220001
LBU224.1250.K1	b ₂ +f ₃	1.25	7.126	1.171	2.323	.016	3.543	220002
LBU224.1500.K1	b ₂ +f ₃	1.5	9.094	1.421	2.323	.174	3.543	220002
LBU224.1250.K1.IK	b ₂ +f ₃	1.25	7.126	1.171	2.323	.016	3.543	220002
LBU224.1500.K1.IK	b ₂ +f ₃	1.5	9.094	1.421	2.323	.174	3.543	220002

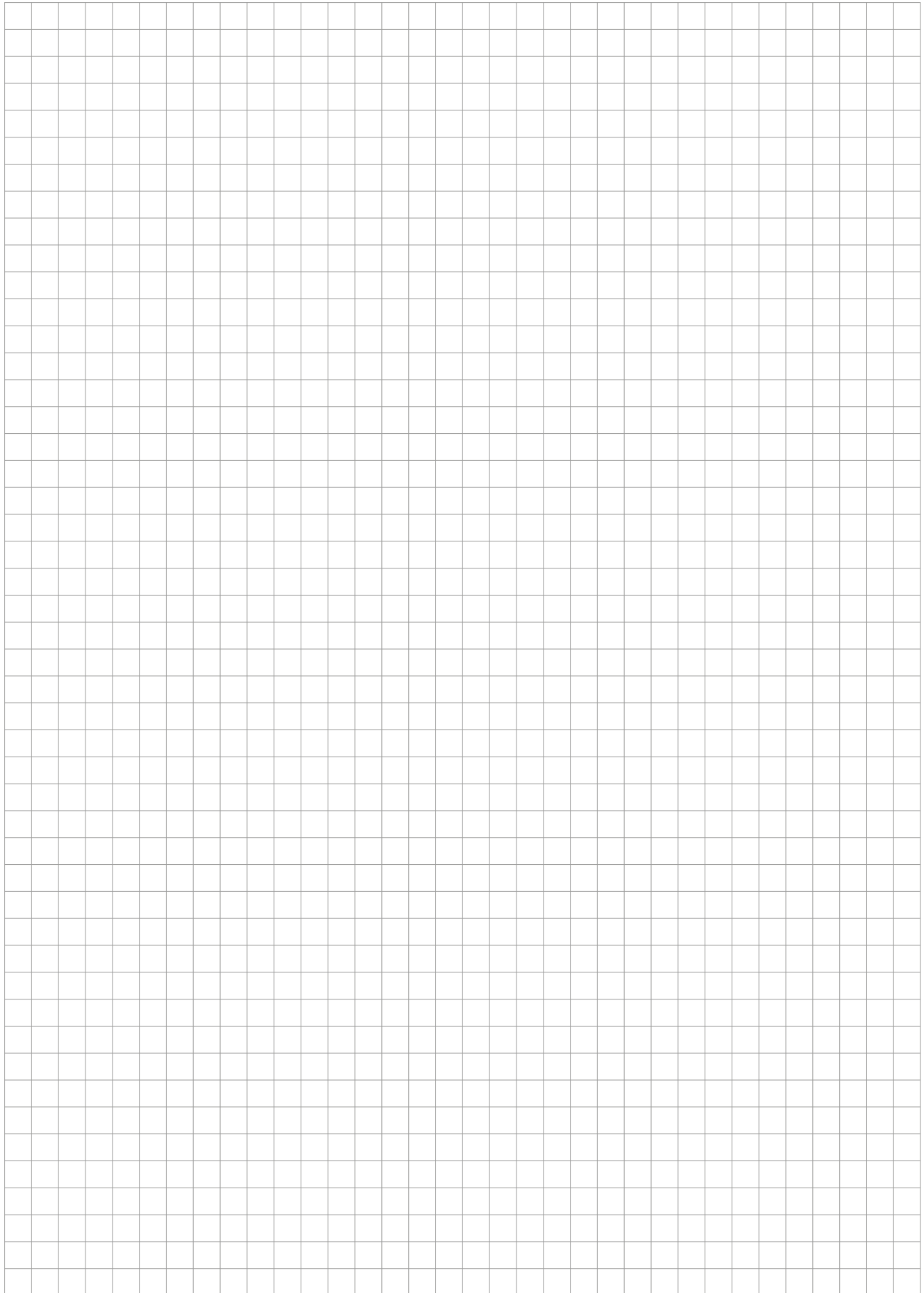
Da min / f3 / lK see cassettes

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU224....	5.12T20P	T20PQ

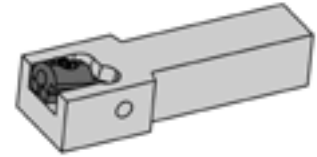
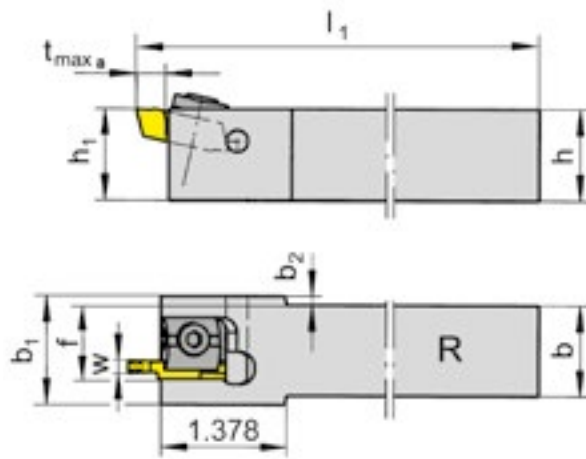
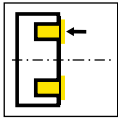
C2



231/228



C2



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	.75	.75	5.118	.75	1.102	.705	.315	.157	23104R • 23104N
RU221.1000.04	1	1	6.004	1	1.181	.803	.315	.098	23104R • 23104N
RU221.0750.05	.75	.75	5.118	.75	1.181	.744	.315	.197	23105R • 23105N
RU221.1000.05	1	1	6.004	1	1.181	.843	.315	.098	23105R • 23105N
RU221.0750.07	.75	.75	5.118	.75	1.26	.783	.315	.236	23107R • 23107N
RU221.1000.07	1	1	6.004	1	1.26	.882	.315	.138	23107R • 23107N
RU221.0750.09	.75	.75	5.118	.75	1.339	.823	.315	.276	23109R • 23109N
RU221.1000.09	1	1	6.004	1	1.339	.921	.315	.177	23109R • 23109N
LU221.0750.04	.75	.75	5.118	.75	1.102	.705	.315	.157	23104L • 23104N
LU221.1000.04	1	1	6.004	1	1.181	.803	.315	.098	23104L • 23104N
LU221.0750.05	.75	.75	5.118	.75	1.181	.744	.315	.197	23105L • 23105N
LU221.1000.05	1	1	6.004	1	1.181	.843	.315	.098	23105L • 23105N
LU221.0750.07	.75	.75	5.118	.75	1.26	.783	.315	.236	23107L • 23107N
LU221.1000.07	1	1	6.004	1	1.26	.882	.315	.138	23107L • 23107N
LU221.0750.09	.75	.75	5.118	.75	1.339	.823	.315	.276	23109L • 23109N
LU221.1000.09	1	1	6.004	1	1.339	.921	.315	.177	23109L • 23109N

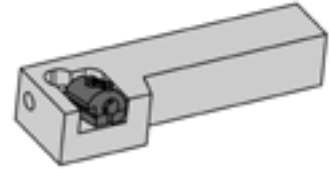
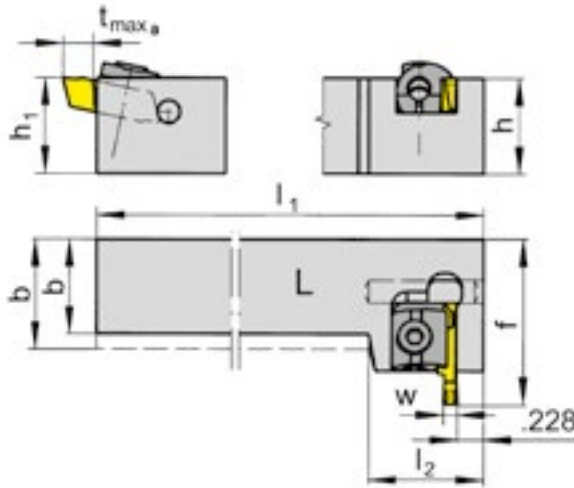
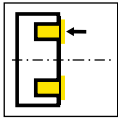
w see indexable inserts

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

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
R/LU221...	01.60.12	T20PQ



C2

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	.75	.75	.75	1.516	.315	5.118	1.398	23104L • 23104N
RU228.1000.04	1	1	1	1.516	.315	6.004	1.398	23104L • 23104N
RU228.0750.05	.75	.75	.75	1.516	.315	5.118	1.398	23105L • 23105N
RU228.1000.05	1	1	1	1.516	.315	6.004	1.398	23105L • 23105N
RU228.0750.07	.75	.75	.75	1.516	.315	5.118	1.398	23107L • 23107N
RU228.0750.09	.75	.75	.75	1.516	.315	5.118	1.398	23109L • 23109N
RU228.1000.09	1	1	1	1.516	.315	6.004	1.398	23109L • 23109N
LU228.0750.04	.75	.75	.75	1.516	.315	5.118	1.398	23104L • 23104N
LU228.1000.04	1	1	1	1.516	.315	6.004	1.398	23104L • 23104N
LU228.0750.05	.75	.75	.75	1.516	.315	5.118	1.398	23105L • 23105N
LU228.1000.05	1	1	1	1.516	.315	6.004	1.398	23105L • 23105N
LU228.0750.07	.75	.75	.75	1.516	.315	5.118	1.398	23107L • 23107N
LU228.1000.07	1	1	1	1.516	.315	6.004	1.398	23107L • 23107N
LU228.1000.09	1	1	1	1.516	.315	6.004	1.398	23109L • 23109N

w see indexable inserts

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

Dimensions in inch

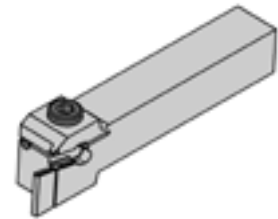
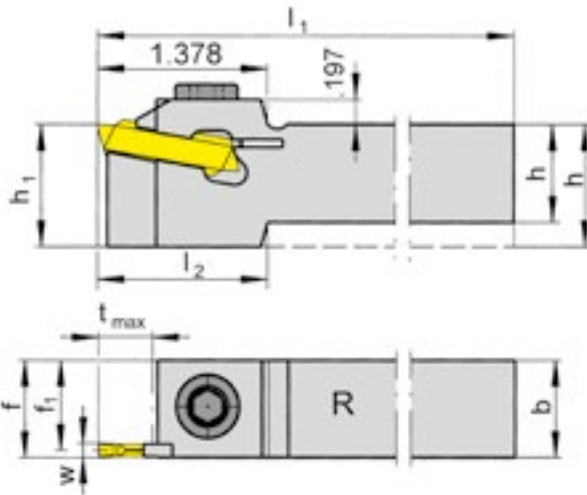
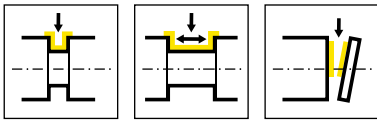
Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
R/LU228...	01.60.12	T20PQ

229



Toolholders and Inserts



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	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.433	229020
RU210.1000.02	1	1	6.004	-	1	.943	$f_1+w/2$	.433	229020
RU210.0625.03	.625	.625	6.004	1.772	1	.567	$f_1+w/2$	.433	229030
RU210.0750.03	.75	.75	6.004	1.378	.984	.693	$f_1+w/2$	.433	229030
RU210.1000.03	1	1	6.004	-	1	.943	$f_1+w/2$	.433	229030
RU210.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	.433	229030
RU210.0750.04	.75	.75	6.004	1.378	1	.659	$f_1+w/2$	.433	229040
RU210.1000.04	1	1	6.004	-	1	.909	$f_1+w/2$	.433	229040
RU210.1250.04	1.25	1	6.693	-	1.25	.909	$f_1+w/2$	.433	229040
RU210.0750.05	.75	.75	6.004	1.378	1	.64	$f_1+w/2$	.433	229050 • 229051
RU210.1000.05	1	1	6.004	-	1	.89	$f_1+w/2$	.433	229050 • 229051
RU210.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	.433	229050 • 229051
LU210.0750.02	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.433	229020
LU210.0625.03	.625	.625	6.004	1.772	1	.567	$f_1+w/2$	.433	229030
LU210.0750.03	.75	.75	6.004	1.378	.984	.693	$f_1+w/2$	.433	229030
LU210.1000.03	1	1	6.004	-	1	.943	$f_1+w/2$	.433	229030
LU210.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	.433	229030
LU210.0750.04	.75	.75	6.004	1.378	1	.659	$f_1+w/2$	.433	229040
LU210.1000.04	1	1	6.004	-	1	.909	$f_1+w/2$	.433	229040
LU210.1250.04	1.25	1	6.693	-	1.25	.909	$f_1+w/2$	.433	229040
LU210.0750.05	.75	.75	6.004	1.378	1	.64	$f_1+w/2$	.433	229050 • 229051
LU210.1000.05	1	1	6.004	-	1	.89	$f_1+w/2$	.433	229050 • 229051
LU210.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	.433	229050 • 229051

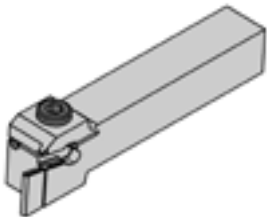
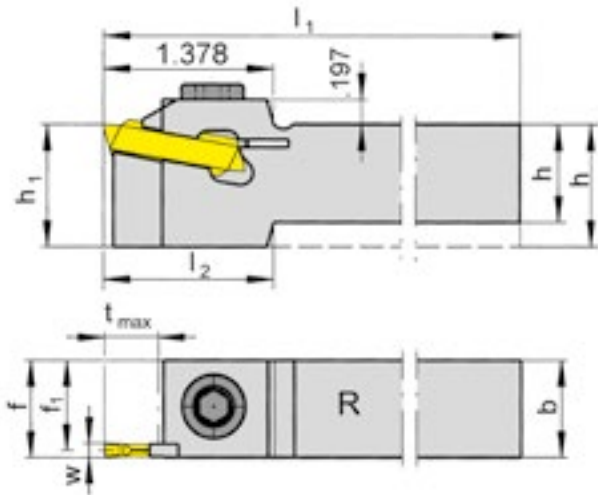
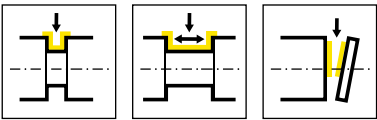
w see indexable inserts

R/L 210...02 max. depth of groove up to Ø 5.906"

Dimensions in inch

Spare Parts

Grooving toolholder	Clamping Screw
R/LU210...	218.3



R = right hand version shown

L = left hand version

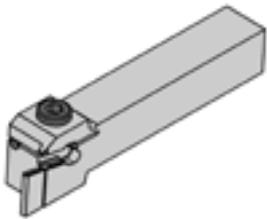
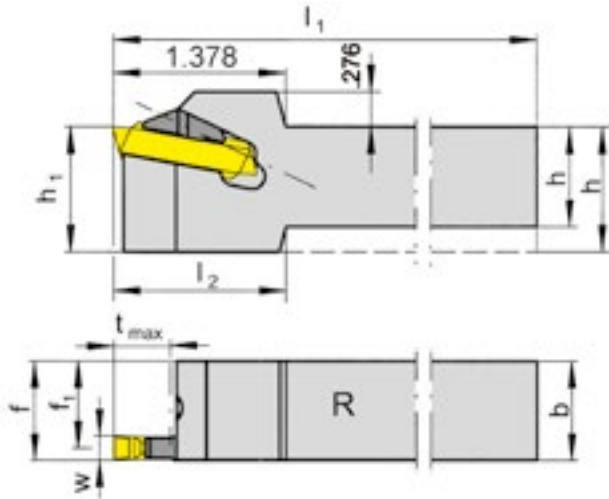
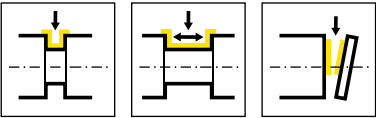
Part number	h	b	l ₁	h ₁	f ₁	f	t _{max}	l ₂	HWS
RU210.0750.07	.75	.75	6.004	.984	.6	f ₁ +w/2	.433	1.378	229070 • 229071
RU210.1000.07	1	1	6.004	1	.848	f ₁ +w/2	.433	-	229070 • 229071
RU210.1250.07	1.25	1	6.693	1.25	.848	f ₁ +w/2	.433	-	229070 • 229071
LU210.0750.07	.75	.75	6.004	.984	.6	f ₁ +w/2	.433	1.378	229070 • 229071
LU210.1000.07	1	1	6.004	1	.848	f ₁ +w/2	.433	-	229070 • 229071

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU210...	218.3



R = right hand version shown

L = left hand version

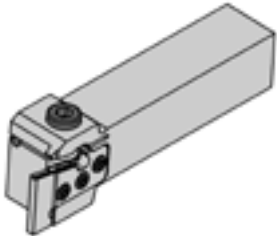
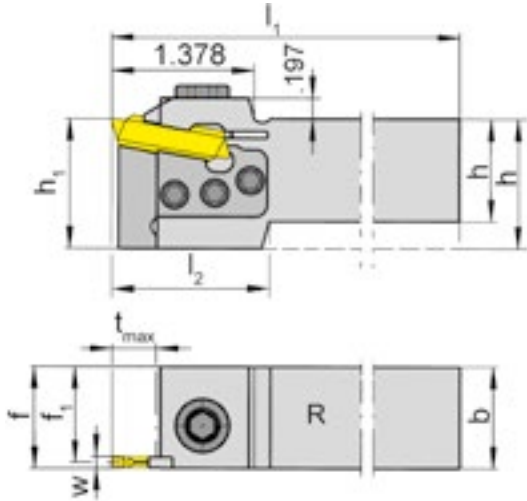
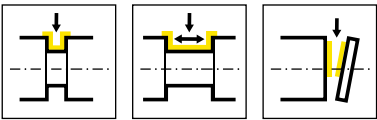
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU210.0750.09	.75	.75	6.004	1.378	1	.561	f ₁ +w/2	.433	229090 • 229091
RU210.1000.09	1	1	6.004	1.378	1	.811	f ₁ +w/2	.433	229090 • 229091
RU210.1250.09	1.25	1	6.693	-	1.25	.811	f ₁ +w/2	.433	229090 • 229091
LU210.0750.09	.75	.75	6.004	1.378	1	.561	f ₁ +w/2	.433	229090 • 229091
LU210.1000.09	1	1	6.004	1.378	1	.811	f ₁ +w/2	.433	229090 • 229091
LU210.1250.09	1.25	1	6.693	-	1.25	.811	f ₁ +w/2	.433	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
RU210...	R218.9	T15PQ
LU210...	L218.9	T15PQ



R = right hand version shown

L = left hand version

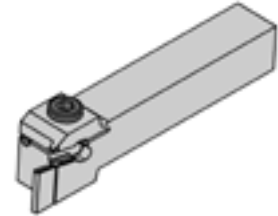
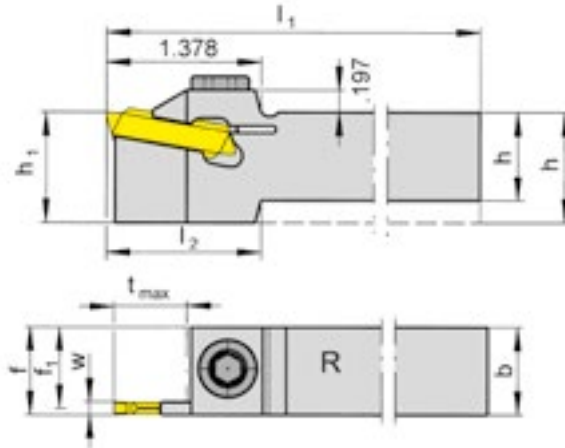
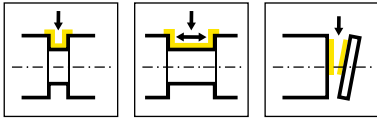
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU210.1000.K3	1	1	6.004	1.378	1.25	.943	$f_1 + w/2$	.433	229030
RU210.1000.K4	1	1	6.004	1.378	1.26	.909	$f_1 + w/2$	.433	229040
RU210.1000.K5	1	1	6.004	1.378	1.26	.89	$f_1 + w/2$	.433	229050 • 229051
LU210.1000.K3	1	1	6.004	1.378	1.25	.943	$f_1 + w/2$	.433	229030
LU210.1000.K4	1	1	6.004	1.378	1.26	.909	$f_1 + w/2$	.433	229040

w see indexable inserts

Dimensions in inch

Spare Parts

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



R = right hand version shown

L = left hand version

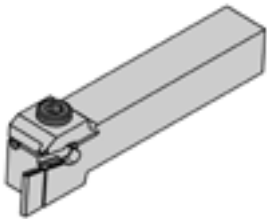
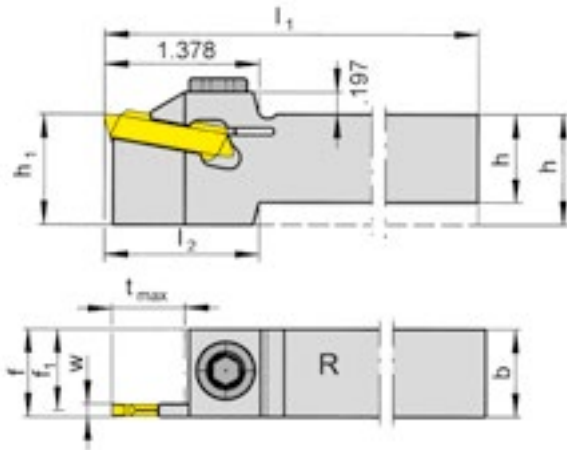
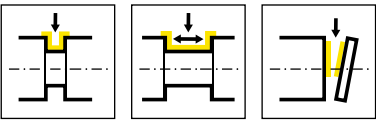
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU218.0750.02	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.709	229020
RU218.1000.02	1	1	6.004	-	1	.943	$f_1+w/2$	.709	229020
RU218.0625.03	.625	.625	6.004	1.772	1	.567	$f_1+w/2$	.709	229030
RU218.0750.03	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.709	229030
RU218.1000.03	1	1	6.004	-	1	.943	$f_1+w/2$	.709	229030
RU218.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	.709	229030
RU218.0750.04	.75	.75	6.004	1.378	1	.659	$f_1+w/2$	.709	229040
RU218.1000.04	1	1	6.004	-	1	.909	$f_1+w/2$	.709	229040
RU218.1250.04	1.25	1.25	6.004	-	1.25	1.159	$f_1+w/2$	.709	229040
RU218.0750.05	.75	.75	6.004	1.378	1	.64	$f_1+w/2$	.709	229050 • 229051
RU218.1000.05	1	1	6.004	-	1	.89	$f_1+w/2$	.709	229050 • 229051
RU218.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	.709	229050 • 229051
LU218.0750.02	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.709	229020
LU218.1000.02	1	1	6.004	-	1	.943	$f_1+w/2$	.709	229020
LU218.0625.03	.625	.625	6.004	1.772	1	.567	$f_1+w/2$	.709	229030
LU218.0750.03	.75	.75	6.004	1.378	1	.693	$f_1+w/2$	.709	229030
LU218.1000.03	1	1	6.004	-	1	.943	$f_1+w/2$	.709	229030
LU218.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	.709	229030
LU218.0750.04	.75	.75	6.004	1.378	1	.659	$f_1+w/2$	.709	229040
LU218.1000.04	1	1	6.004	-	1	.909	$f_1+w/2$	.709	229040
LU218.1250.04	1.25	1.25	6.004	-	1.25	1.159	$f_1+w/2$	.709	229040
LU218.0750.05	.75	.75	6.004	1.378	1	.64	$f_1+w/2$	.709	229050 • 229051
LU218.1000.05	1	1	6.004	-	1	.89	$f_1+w/2$	.709	229050 • 229051
LU218.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	.709	229050 • 229051

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Torx Wrench
R/LU218...	218.3	



R = right hand version shown

L = left hand version

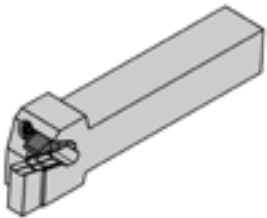
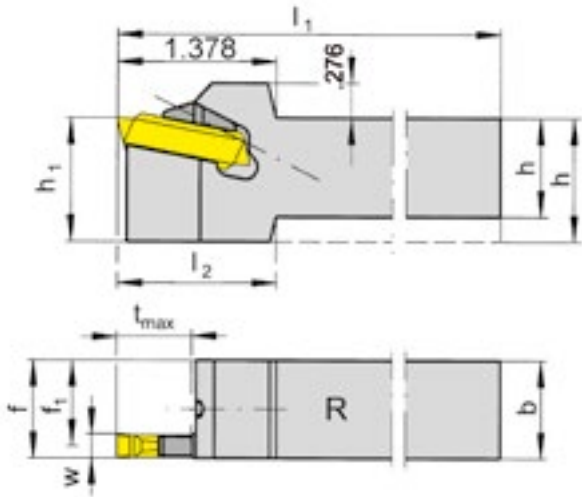
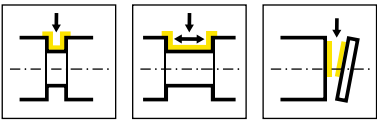
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU218.0750.07	.75	.75	6.004	1.378	.984	.6	f ₁ +w/2	.709	229070 • 229071
RU218.1000.07	1	1	6.004	-	1	.848	f ₁ +w/2	.709	229070 • 229071
RU218.1250.07	1.25	1	6.693	-	1.25	.85	f ₁ +w/2	.709	229070 • 229071
LU218.0750.07	.75	.75	6.004	1.378	.984	.6	f ₁ +w/2	.709	229070 • 229071
LU218.1000.07	1	1	6.004	-	1	.848	f ₁ +w/2	.709	229070 • 229071
LU218.1250.07	1.25	1	6.693	-	1.25	.85	f ₁ +w/2	.709	229070 • 229071

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU218...	218.3



R = right hand version shown

L = left hand version

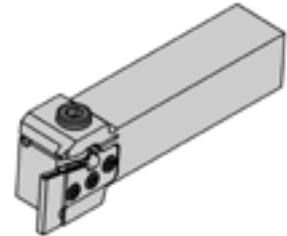
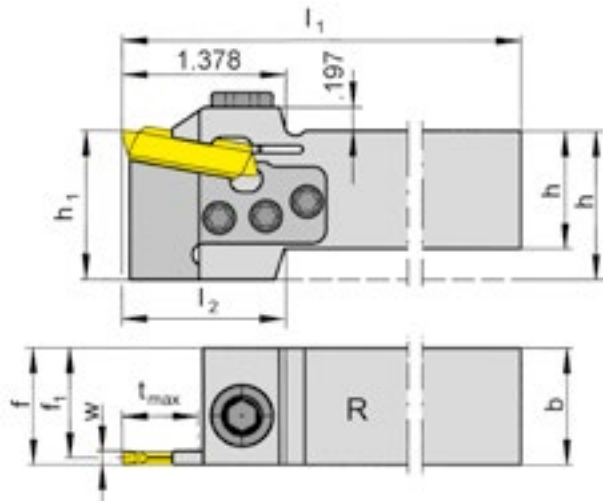
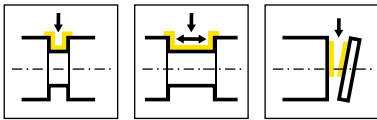
Part number	h	b	l_1	h_1	f_1	f	t_{max}	HWS
RU218.0750.09	.75	.75	6.004	1	.561	$f_1+w/2$	.709	229090 • 229091
RU218.1000.09	1	1	6.004	1	.811	$f_1+w/2$	.709	229090 • 229091
RU218.1250.09	1.25	1	6.693	1.25	.811	$f_1+w/2$	.709	229090 • 229091
LU218.0750.09	.75	.75	6.004	1	.561	$f_1+w/2$	.709	229090 • 229091
LU218.1000.09	1	1	6.004	1	.811	$f_1+w/2$	.709	229090 • 229091
LU218.1250.09	1.25	1	6.693	1.25	.811	$f_1+w/2$	.709	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
RU218...	R218.9	T15PQ
LU218...	L218.9	T15PQ



R = right hand version shown

L = left hand version

C3

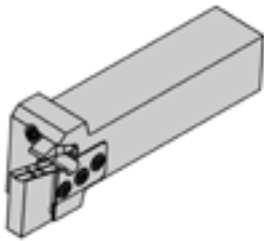
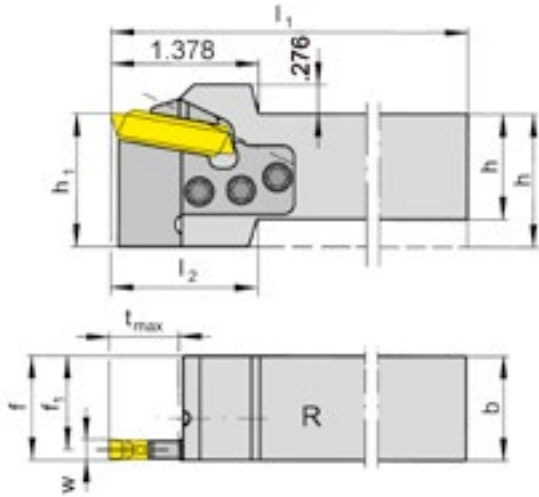
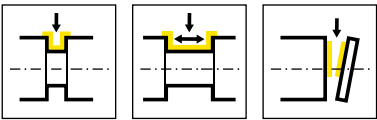
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU218.1000.K3	1	1	6.004	1.378	1.26	.943	$f_1 + w/2$	.709	229030
RU218.1250.K3	1.25	1	6.693	-	1.26	.943	$f_1 + w/2$	.709	229030
RU218.1000.K4	1	1	6.004	1.378	1.26	.909	$f_1 + w/2$	.709	229040
RU218.1250.K4	1.25	1	6.693	-	1.25	.909	$f_1 + w/2$	.709	229040
RU218.1000.K5	1	1	6.004	1.378	1.26	.89	$f_1 + w/2$	.709	229050 • 229051
RU218.1000.K7	1	1	6.004	1.378	1.26	.85	$f_1 + w/2$	.709	229070 • 229071
LU218.1000.K3	1	1	6.004	1.378	1.26	.943	$f_1 + w/2$	.709	229030
LU218.1250.K3	1.25	1	6.693	1.378	1.26	.943	$f_1 + w/2$	.709	229030
LU218.1000.K4	1	1	6.004	1.378	1.26	.909	$f_1 + w/2$	.709	229040
LU218.1250.K4	1.25	1	6.693	-	1.25	.909	$f_1 + w/2$	.709	229040

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Cassette	TORX PLUS® Wrench	Allen wrench
R/LU218....	030.0518.T20P	NK218.32.03	T20PQ	SW6,0 DIN911
R/LU218....	030.0518.T20P	NK218.32.04	T20PQ	SW6,0 DIN911
RU218.1000.K5	030.0518.T20P	NK218.32.05	T20PQ	SW6,0 DIN911
RU218.1000.K7	030.0518.T20P	NK218.32.07	T20PQ	SW6,0 DIN911



R = right hand version shown

L = left hand version

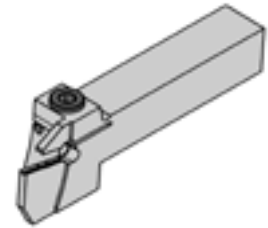
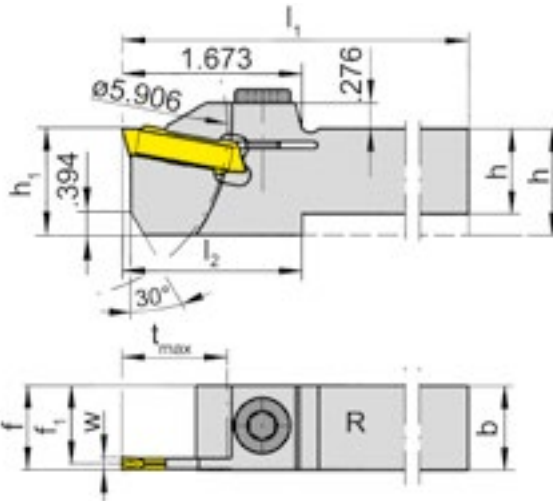
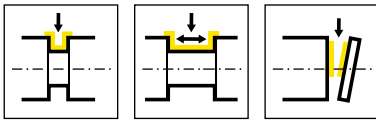
Part number	h	b	l_1	h_1	f_1	f	t_{max}	HWS
LU218.1250.K9	1.25	1	6.693	1.25	.811	$f_1 + w/2$	.709	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

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



R = right hand version shown

L = left hand version

C3

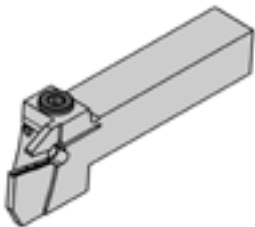
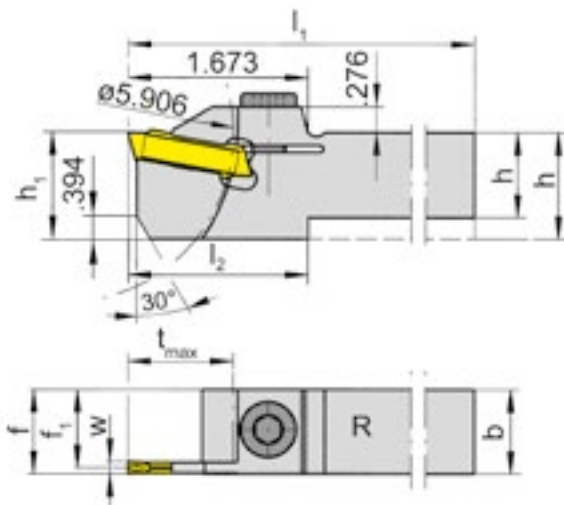
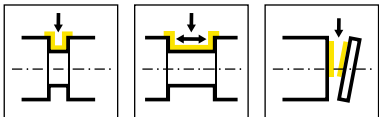
Part number	h	b	l_1	l_2	h_1	f_1	f	t_{max}	HWS
RU226.0625.03	.625	.625	6.004	2	1.25	.568	$f_1+w/2$	1	229030
RU226.0750.03	.75	.75	6.004	1.673	1.25	.693	$f_1+w/2$	1	229030
RU226.1000.03	1	1	6.004	1.673	1.25	.943	$f_1+w/2$	1	229030
RU226.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	1	229030
RU226.0625.04	.625	.625	6.004	2	1.25	.534	$f_1+w/2$	1	229040
RU226.0750.04	.75	.75	6.004	1.673	1.25	.659	$f_1+w/2$	1	229040
RU226.1000.04	1	1	6.004	1.673	1.26	.909	$f_1+w/2$	.984	229040
RU226.1250.04	1.25	1	6.693	-	1.25	.909	$f_1+w/2$	1	229040
RU226.0750.05	.75	.75	6.004	1.673	1.26	.64	$f_1+w/2$	.984	229050 • 229051
RU226.1000.05	1	1	6.004	1.673	1.25	.89	$f_1+w/2$	1	229050 • 229051
RU226.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	1	229050 • 229051
LU226.0625.03	.625	.625	6.004	2	1.25	.568	$f_1+w/2$	1	229030
LU226.0750.03	.75	.75	6.004	1.673	1.25	.693	$f_1+w/2$	1	229030
LU226.1000.03	1	1	6.004	1.673	1.25	.943	$f_1+w/2$	1	229030
LU226.1250.03	1.25	1	6.693	-	1.25	.943	$f_1+w/2$	1	229030
LU226.0625.04	.625	.625	6.004	2	1.25	.534	$f_1+w/2$	1	229040
LU226.0750.04	.75	.75	6.004	1.673	1.25	.659	$f_1+w/2$	1	229040
LU226.1000.04	1	1	6.004	1.673	1.26	.909	$f_1+w/2$	.984	229040
LU226.1250.04	1.25	1	6.693	-	1.25	.909	$f_1+w/2$	1	229040
LU226.0750.05	.75	.75	6.004	1.673	1.26	.64	$f_1+w/2$	.984	229050 • 229051
LU226.1000.05	1	1	6.004	1.673	1.25	.89	$f_1+w/2$	1	229050 • 229051
LU226.1250.05	1.25	1	6.693	-	1.25	.89	$f_1+w/2$	.984	229050 • 229051

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU226...	218.3



R = right hand version shown L = left hand version

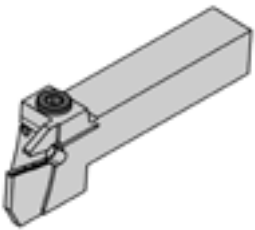
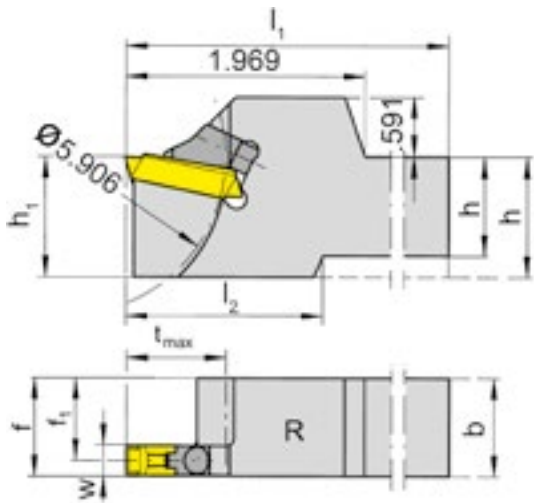
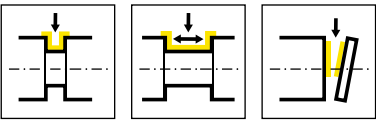
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU226.1000.07	1	1	6.004	1.673	1.25	.85	f ₁ +w/2	1	229070 • 229071
RU226.1250.07	1.25	1	6.693	-	1.25	.85	f ₁ +w/2	1	229070 • 229071
LU226.1000.07	1	1	6.004	1.673	1.25	.85	f ₁ +w/2	1	229070 • 229071
LU226.1250.07	1.25	1	6.693	-	1.25	.85	f ₁ +w/2	1	229070 • 229071

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU226...	218.3



R = right hand version shown

L = left hand version

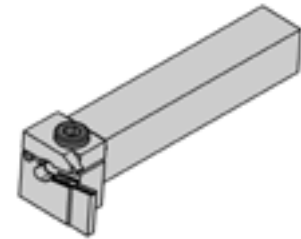
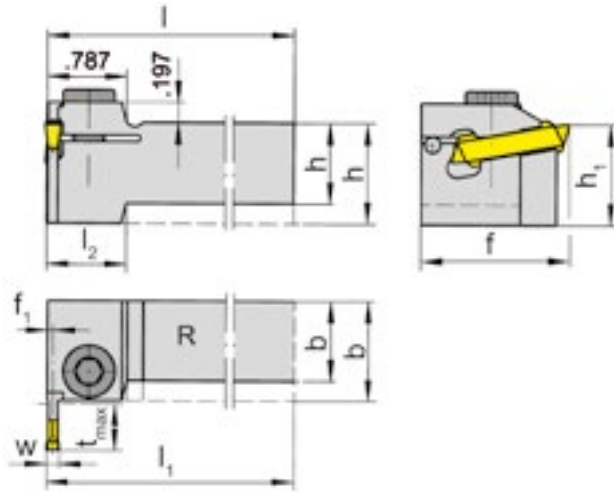
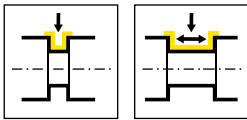
Part number	h	b	l ₁	l ₂	h ₁	f ₁	f	t _{max}	HWS
RU226.1000.09	1	1	6.004	1.969	1.25	.811	f ₁ +w/2	1	229090 • 229091
RU226.1250.09	1.25	1	6.693	-	1.25	.811	f ₁ +w/2	1	229090 • 229091
LU226.1000.09	1	1	6.004	1.969	1.25	.811	f ₁ +w/2	1	229090 • 229091
LU226.1250.09	1.25	1	6.693	-	1.25	.811	f ₁ +w/2	1	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
R/LU226...	020.1008.0041	T15PQ



R = right hand version shown

L = left hand version

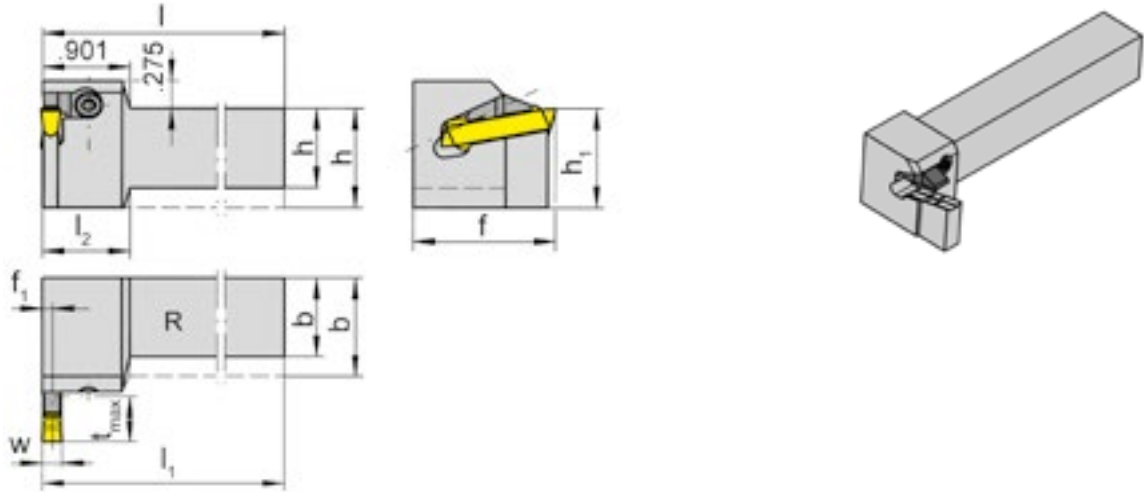
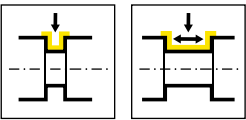
Part number	h	b	l	l_1	h_1	f	t_{max}	HWS
RU219.0750.03	.75	.75	6.004	$l-f_1+w/2$	1	1.472	.433	229030
RU219.1000.03	1	1	6.004	$l-f_1+w/2$	1	1.472	.433	229030
RU219.0750.04	.75	.75	6.004	$l-f_1+w/2$	1	1.472	.433	229040
RU219.1000.04	1	1	6.004	$l-f_1+w/2$	1	1.472	.433	229040
RU219.0750.05	.75	.75	6.004	$l-f_1+w/2$	1	1.772	.591	229050 • 229051
RU219.1000.05	1	1	6.004	$l-f_1+w/2$	1	1.772	.591	229050 • 229051
RU219.0750.07	.75	.75	6.004	$l-f_1+w/2$	1	1.772	.591	229070 • 229071
RU219.1000.07	1	1	6.004	$l-f_1+w/2$	1	1.772	.591	229070 • 229071
LU219.0750.03	.75	.75	6.004	$l-f_1+w/2$	1	1.472	.433	229030
LU219.1000.03	1	1	6.004	$l-f_1+w/2$	1	1.472	.433	229030
LU219.0750.04	.75	.75	6.004	$l-f_1+w/2$	1	1.472	.433	229040
LU219.1000.04	1	1	6.004	$l-f_1+w/2$	1	1.472	.433	229040
LU219.1000.05	1	1	6.004	$l-f_1+w/2$	1	1.772	.591	229050 • 229051
LU219.0750.07	.75	.75	6.004	$l-f_1+w/2$	1	1.772	.591	229070 • 229071
LU219.1000.07	1	1	6.004	$l-f_1+w/2$	1	1.772	.591	229070 • 229071

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU219...	218.3



R = right hand version shown

L = left hand version

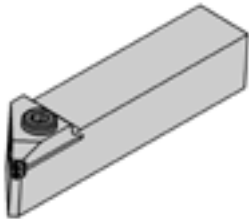
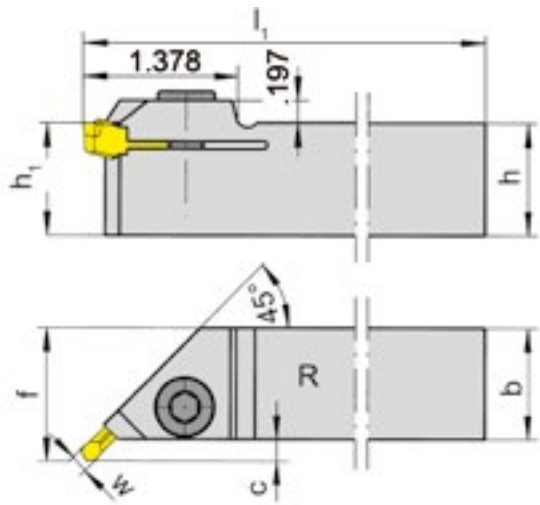
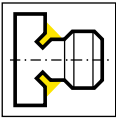
Part number	h	b	l	l ₁	h ₁	f	t _{max}	HWS
LU219.1000.09	1	1	6.004	$l - f_1 + w/2$	1	1.772	.591	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
LU219.1000.09	L218.9.32	T15PQ



R = right hand version shown L = left hand version

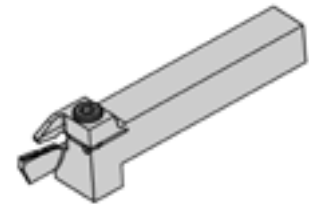
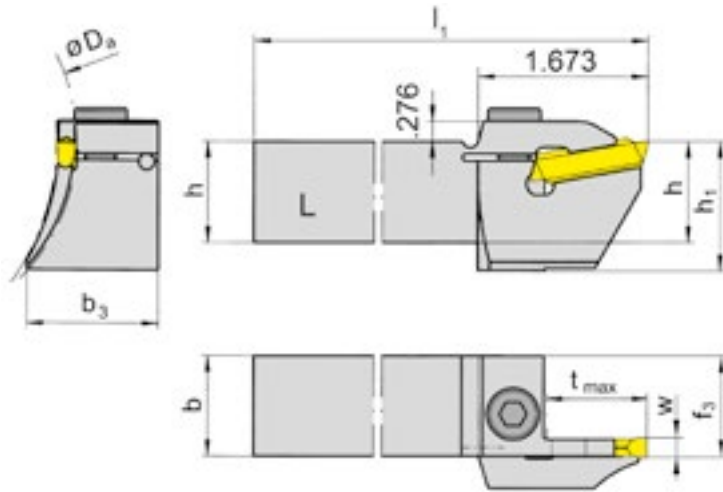
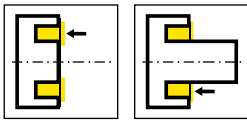
Part number	h	b	l ₁	h ₁	f	C	D _{min}	Width of groove	HWS
RU225.1000.04	1	1	6.004	1	1.197	.197	1.969	.118-.197	229040
LU225.1000.04	1	1	6.004	1	1.197	.197	1.969	.118-.197	229040

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU225.1000.04	218.3



C3

L = left hand version

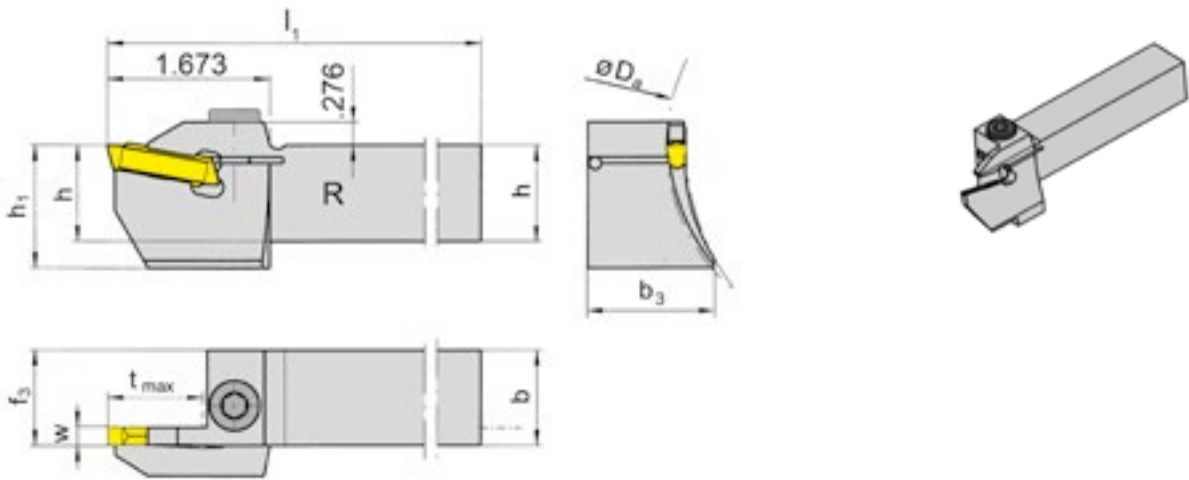
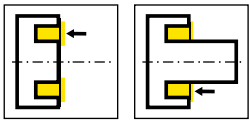
Part number	h	b	l_1	h_1	f_3	t_{max}	$D_{a\ min}$	$D_{a\ max}$	b_3	HWS
LAU226.07.1318.04	.75	.75	6.004	1.26	.807	.984	5.118	6.772	.984	229040
LAU226.07.9513.04	.75	.75	6.004	1.26	.807	.984	3.74	4.803	1.024	229040
LAU226.10.1318.04	1	1	6.004	1.26	1.02	.984	5.118	6.772	1.197	229040
LAU226.10.9513.04	1	1	6.004	1.26	1.02	.984	3.74	4.803	1.236	229040
LAU226.07.1318.05	.75	.75	6.004	1.26	.807	.984	5.118	6.693	.984	229050 • 229051
LAU226.07.9513.05	.75	.75	6.004	1.26	.807	.984	3.74	4.724	1.102	229050 • 229051
LAU226.10.1318.05	1	1	6.004	1.26	1.02	.984	5.118	6.693	1.197	229050 • 229051
LAU226.10.9513.05	1	1	6.004	1.26	1.02	.984	3.74	4.724	1.315	229050 • 229051

* Please note insert width

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
LAU226...	218.3



R = right hand version

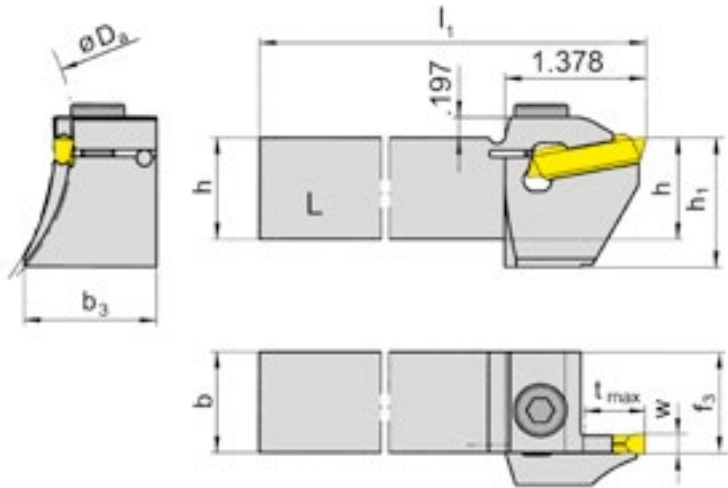
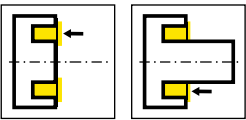
Part number	h	b	l ₁	h ₁	f ₃	t _{max}	D _{a min}	D _{a max}	b ₃	HWS
RAU226.07.1318.04	.75	.75	6.004	1.26	.807	.984	5.118	6.772	.984	229040
RAU226.07.9513.04	.75	.75	6.004	1.26	.807	.984	3.74	4.803	1.024	229040
RAU226.10.1318.04	1	1	6.004	1.26	1.02	.984	5.118	6.772	1.197	229040
RAU226.10.9513.04	1	1	6.004	1.26	1.02	.984	3.74	4.803	1.236	229040
RAU226.07.1318.05	.75	.75	6.004	1.26	.807	.984	5.118	6.693	.984	229050 • 229051
RAU226.07.9513.05	.75	.75	6.004	1.26	.807	.984	3.74	4.724	1.102	229050 • 229051
RAU226.10.9513.05	1	1	6.004	1.26	1.02	.984	3.74	4.724	1.315	229050 • 229051

* Please note insert width

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
RAU226...	218.3



L = left hand version

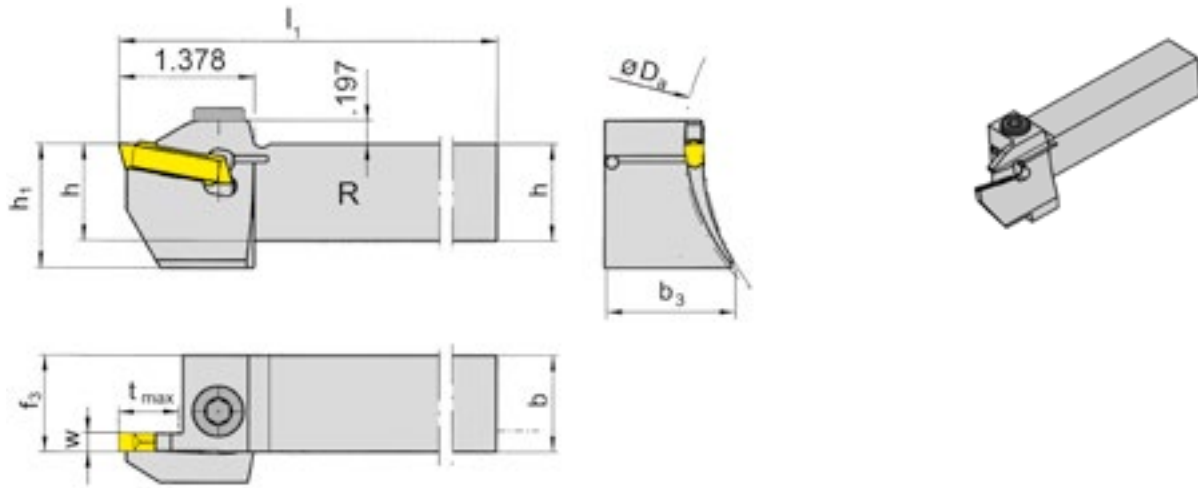
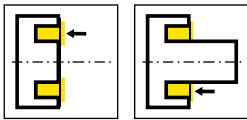
Part number	h	b	l_1	h_1	b_3	f_3	t_{max}	$D_{a\ min}$	$D_{a\ max}$	HWS
LAU210.07.1318.14	.75	.75	6.004	1.26	.984	.807	.591	5.118	6.772	229040
LAU210.07.9513.14	.75	.75	6.004	1.26	1.024	.807	.591	3.74	4.803	229040
LAU210.10.1318.14	1	1	6.004	1.26	1.197	1.02	.591	5.118	6.772	229040
LAU210.10.9513.14	1	1	6.004	1.26	1.236	1.02	.591	3.74	4.803	229040
LAU210.07.1318.15	.75	.75	6.004	1.26	.984	.807	.591	5.118	6.693	229050 • 229051
LAU210.07.9513.15	.75	.75	6.004	1.26	1.102	.807	.591	3.74	4.724	229050 • 229051
LAU210.10.1318.15	1	1	6.004	1.26	1.197	1.02	.591	5.118	6.693	229050 • 229051
LAU210.10.9513.15	1	1	6.004	1.26	1.315	1.02	.591	3.74	4.724	229050 • 229051

* Please note insert width

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
LAU210...	218.3



R = right hand version

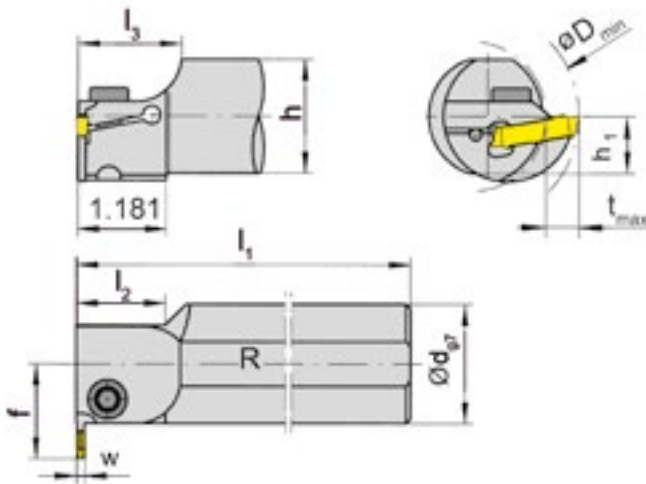
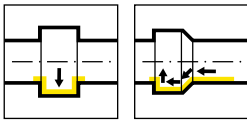
Part number	h	b	l ₁	h ₁	b ₃	f ₃	t _{max}	D _{a min}	D _{a max}	HWS
RAU210.07.1318.14	.75	.75	6.004	1.26	.984	.807	.591	5.118	6.772	229040
RAU210.07.9513.14	.75	.75	6.004	1.26	1.024	.807	.591	3.74	4.803	229040
RAU210.10.1318.14	1	1	6.004	1.26	1.197	1.02	.591	5.118	6.772	229040
RAU210.10.9513.14	1	1	6.004	1.26	1.236	1.02	.591	3.74	4.803	229040
RAU210.07.1318.15	.75	.75	6.004	1.26	.984	.807	.591	5.118	6.693	229050 • 229051
RAU210.07.9513.15	.75	.75	6.004	1.26	1.102	.807	.591	3.74	4.724	229050 • 229051
RAU210.10.9513.15	1	1	6.004	1.26	1.315	1.02	.591	3.74	4.724	229050 • 229051

* Please note insert width

Dimensions in inch

Spare Parts

	Clamping Screw
RAU210...	218.3



R = right hand version shown

L = left hand version

C3

Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1000.03	1	5.984	-	1.375	.921	.461	.965	.453	1.496	229030
RU213.1250.03	1.25	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229030
RU213.1500.03	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229030
RU213.2000.03	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229030
RU213.1000.04	1	5.984	-	1.375	.921	.461	.965	.453	1.496	229040
RU213.1250.04	1.25	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229040
RU213.1500.04	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229040
RU213.2000.04	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229040
RU213.1250.05	1.25	5.984	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
RU213.1500.05	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229050 • 229051
RU213.2000.05	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229050 • 229051
RU213.1500.07	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229070 • 229071
RU213.2000.07	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229070 • 229071
LU213.1000.03	1	5.984	-	1.375	.921	.461	.965	.453	1.496	229030
LU213.1250.03	1.25	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229030
LU213.1500.03	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229030
LU213.2000.03	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229030
LU213.1000.04	1	5.984	-	1.375	.921	.461	.965	.453	1.496	229040
LU213.1250.04	1.25	5.984	1.181	1.375	1.171	.586	1.102	.453	1.496	229040
LU213.1500.04	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229040
LU213.2000.04	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229040
LU213.1250.05	1.25	5.984	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
LU213.1500.05	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229050 • 229051
LU213.2000.05	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229050 • 229051
LU213.1500.07	1.5	7.008	1.181	1.375	1.421	.711	1.22	.453	1.969	229070 • 229071
LU213.2000.07	2	7.992	1.181	1.5	1.882	.941	1.614	.591	2.362	229070 • 229071

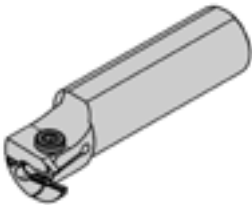
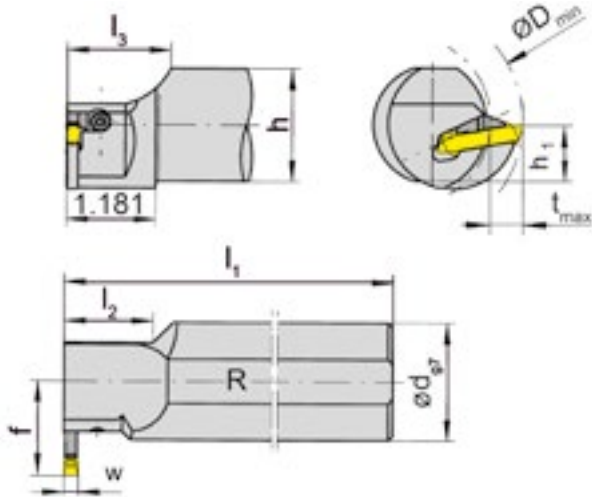
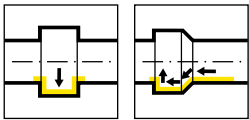
w see indexable inserts

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

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw
R/LU213...	218.3



C3

R = right hand version shown L = left hand version

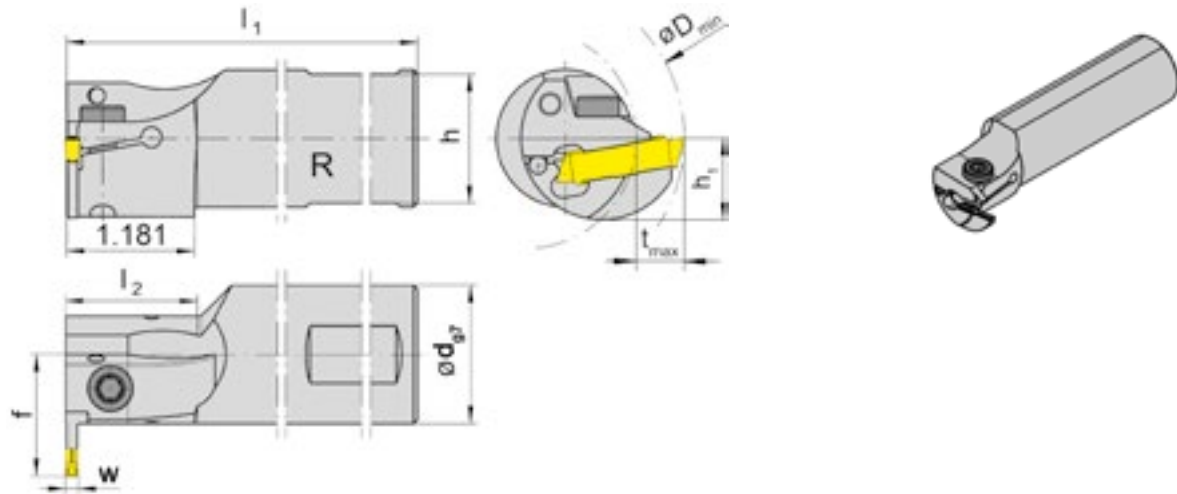
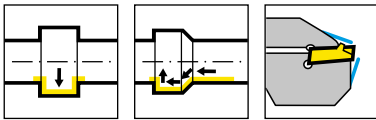
Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1500.09	1.5	7.008	1.26	1.375	1.421	.711	1.22	.453	1.969	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
RU213.1500.09	R218.9	T15PQ



R = right hand version shown

L = left hand version

C3

Part number	d	l ₁	l ₂	h	h ₁	f	t _{max}	D _{min}	HWS
RU213.1250.03IK	1.25	6.004	1.26	1.171	.586	1.102	.453	1.496	229030
RU213.1500.03IK	1.5	7.008	1.26	1.421	.711	1.22	.453	1.969	229030
RU213.1250.04IK	1.25	6.004	1.26	1.171	.586	1.102	.453	1.496	229040
RU213.1500.04IK	1.5	7.008	1.26	1.421	.711	1.22	.453	1.969	229040
LU213.1500.03IK	1.5	7.008	1.26	1.421	.711	1.22	.453	1.969	229030
LU213.1500.04IK	1.5	7.008	1.26	1.421	.711	1.22	.453	1.969	229040

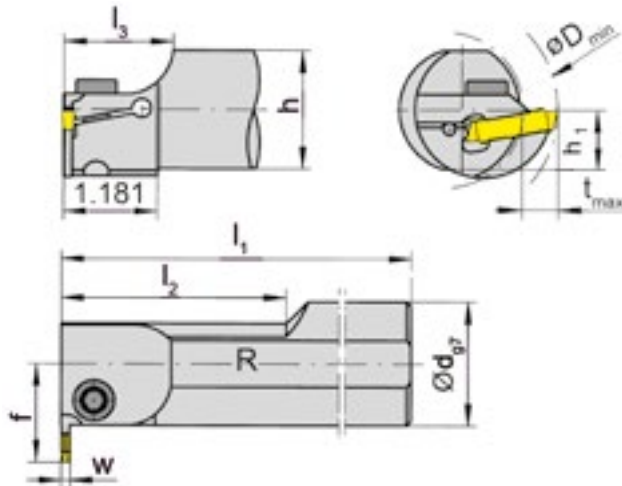
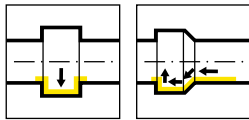
w see indexable inserts

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
R/LU213...	SW5,0 DIN911



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	1.25	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229030
RU214.1500.03	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229030
RU214.2000.03	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229030
RU214.1250.04	1.25	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229040
RU214.1500.04	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229040
RU214.2000.04	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229040
RU214.1250.05	1.25	7.992	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
RU214.1500.05	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229050 • 229051
RU214.2000.05	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229050 • 229051
RU214.1500.07	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229070 • 229071
RU214.2000.07	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229070 • 229071
LU214.1250.03	1.25	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229030
LU214.1500.03	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229030
LU214.2000.03	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229030
LU214.1250.04	1.25	7.992	2.756	1.375	1.171	.586	1.102	.453	1.496	229040
LU214.1500.04	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229040
LU214.2000.04	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229040
LU214.1250.05	1.25	7.992	-	1.375	1.171	.586	1.102	.453	1.811	229050 • 229051
LU214.1500.05	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229050 • 229051
LU214.2000.05	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229050 • 229051
LU214.1500.07	1.5	10	3.268	1.375	1.421	.711	1.22	.453	1.969	229070 • 229071
LU214.2000.07	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229070 • 229071

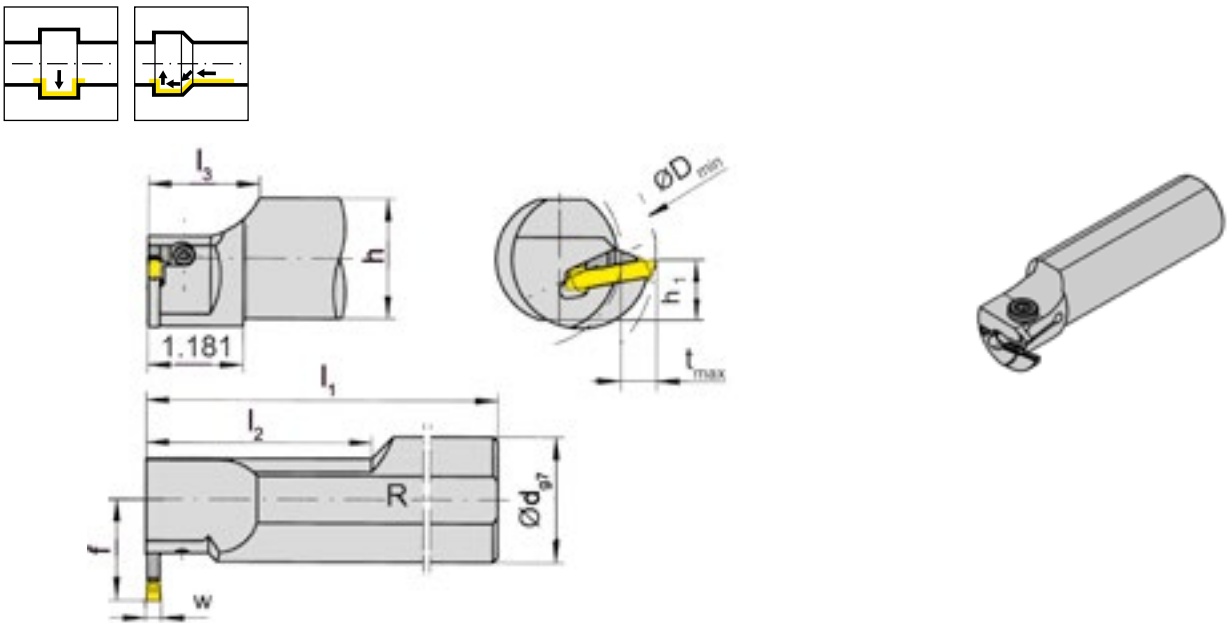
w see indexable inserts

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
R/LU214...	218.3



R = right hand version shown L = left hand version

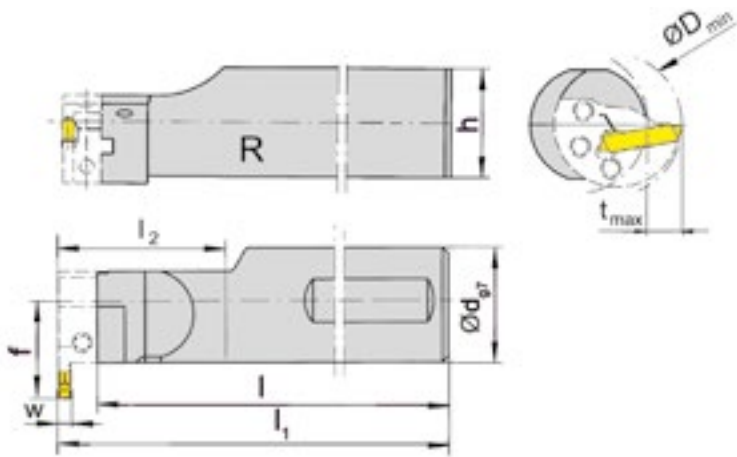
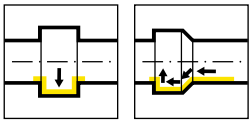
Part number	d	l ₁	l ₂	l ₃	h	h ₁	f	t _{max}	D _{min}	HWS
RU214.2000.09	2	10	4.016	1.5	1.882	.941	1.614	.591	2.362	229090 • 229091

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element	TORX PLUS® Wrench
RU214.2000.09	R218.9	T15PQ



R = right hand version shown

L = left hand version

Part number	d	l	l ₁	h	f	HWS
RBU229.1500.1.K2	1.5	6.929	7.5	1.421	1.398	BK2292
RBU229.1500.2.K2	1.5	7.469	8	1.421	1.398	BK2292
LBU229.1500.1.K2	1.5	6.929	7.5	1.421	1.398	BK2292
LBU229.1500.2.K2	1.5	7.469	8	1.421	1.398	BK2292

w see indexable inserts

Dimensions for Dmin, tmax and b1 see cassettes

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

Dimensions in inch

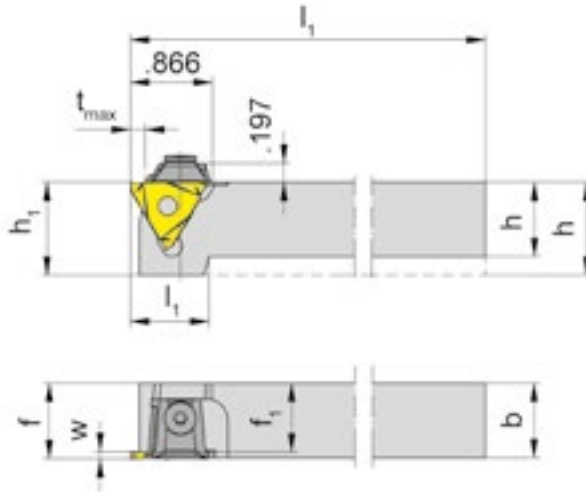
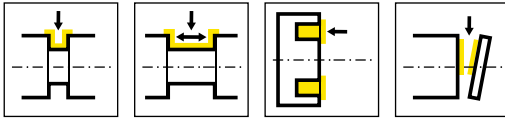
Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench
R/LBU229...	030.0518.T20P	T20PQ

312



Toolholders and Inserts



R = right hand version shown

L = left hand version

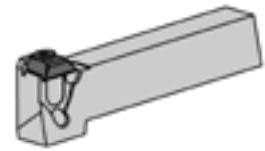
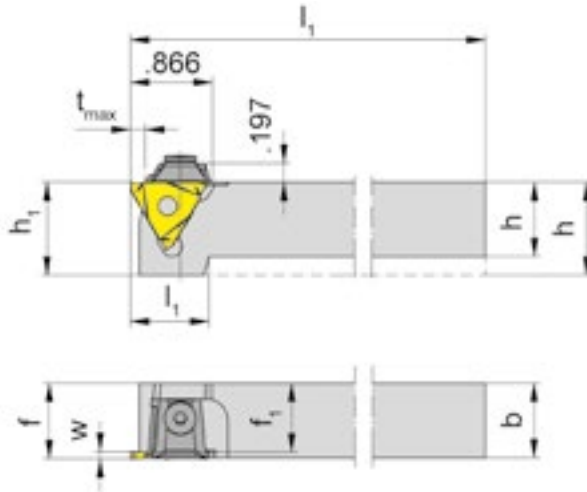
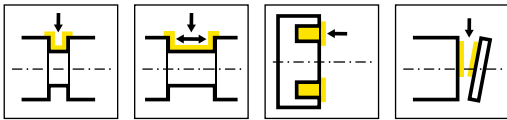
Part number	h	b	l_1	l_2	h_1	f_1	f	HWS
RU360.0500.01	.5	.5	3.996	.945	.984	.441	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0625.01	.625	.625	5.118	.866	.984	.566	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0750.01	.75	.75	5.118	.827	.984	.691	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.1000.01	1	1	6.004	-	1	.941	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.1250.01	1.25	1.25	6.693	-	1.25	1.191	$f_1 + w - a_1$	31201L • 31201R • 31201N
RU360.0500.02	.5	.5	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	.75	.75	5.118	.827	.984	.652	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.1000.02	1	1	6.004	-	1	.902	$f_1 + w - a_1$	31202L • 31202R • 31202N
RU360.1250.02	1.25	1.25	6.693	-	1.25	1.152	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.0500.01	.5	.5	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	.75	.75	5.118	.827	.984	.691	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.1000.01	1	1	6.004	-	1	.941	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.1250.01	1.25	1.25	6.693	-	1.25	1.191	$f_1 + w - a_1$	31201L • 31201R • 31201N
LU360.0500.02	.5	.5	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	.75	.75	5.118	.827	.984	.652	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.1000.02	1	1	6.004	-	1	.902	$f_1 + w - a_1$	31202L • 31202R • 31202N
LU360.1250.02	1.25	1.25	6.693	-	1.25	1.152	$f_1 + w - a_1$	31202L • 31202R • 31202N

w, a1 see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU360....	11.3
R/LU360...	16.4



C3

R = right hand version shown

L = left hand version

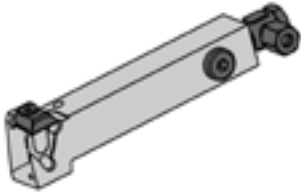
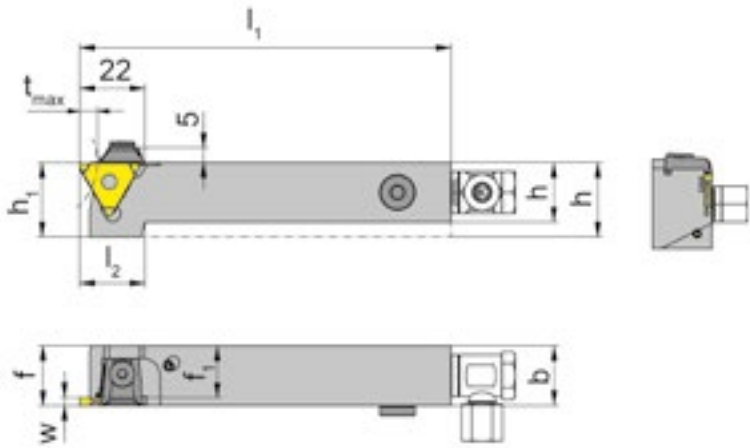
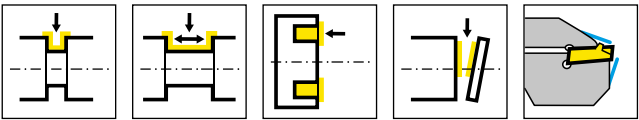
Part number	h	b	l_1	l_2	h_1	f_1	f	HWS
RU360.0500.03	.5	.5	3.996	.945	.984	.362	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0625.03	.625	.625	5.118	.866	.984	.487	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0750.03	.75	.75	5.118	.827	.984	.612	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.1000.03	1	1	6.004	-	1	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.1250.03	1.25	1.25	6.693	-	1.25	1.112	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.0625.04	.625	.625	5	.866	.984	.42	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.0750.04	.75	.75	5.118	.827	.984	.545	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.1000.04	1	1	6	-	1	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N
RU360.1250.04	1.25	1.25	6.693	-	1.25	1.045	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.0500.03	.5	.5	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	.75	.75	5.118	.827	.984	.612	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.1000.03	1	1	6.004	-	1	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.1250.03	1.25	1.25	6.693	-	1.25	1.112	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.0625.04	.625	.625	5	.866	.984	.42	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.0750.04	.75	.75	5.118	.827	.984	.545	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.1000.04	1	1	6	-	1	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.1250.04	1.25	1.25	6.693	-	1.25	1.045	$f_1 + w - a_1$	31204L • 31204R • 31204N

w, a1 see indexable 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	1	6.004	1	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
RU360.1000.04.IK	1	1	6.004	1	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N
LU360.1000.03.IK	1	1	6.004	1	.862	$f_1 + w - a_1$	31203L • 31203R • 31203N
LU360.1000.04.IK	1	1	6.004	1	.795	$f_1 + w - a_1$	31204L • 31204R • 31204N

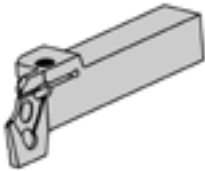
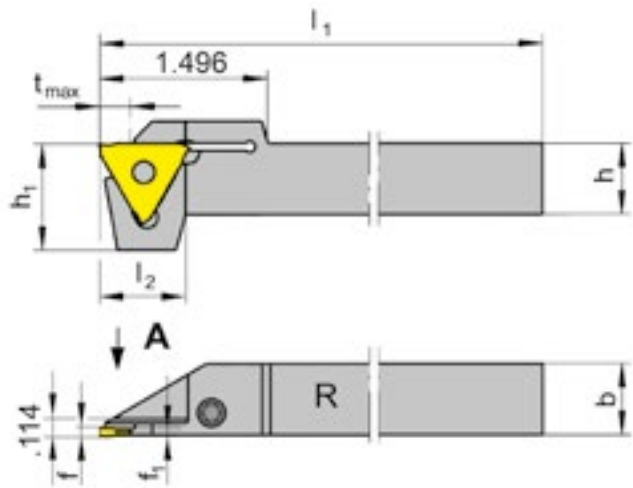
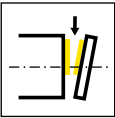
w, a1 see indexable inserts

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	004.00.26



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	.5	.5	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	.5	.5	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	.5	.5	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	.5	.5	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

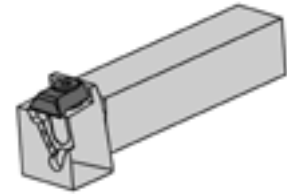
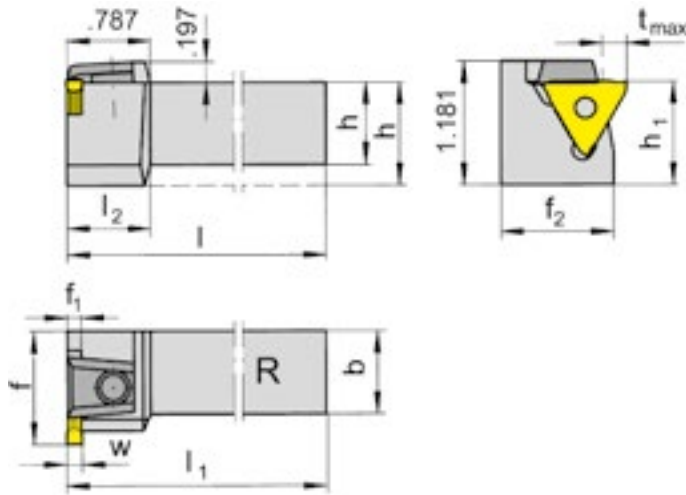
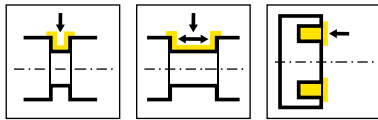
for machines TRAUB (TNL12/7)

a1 see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LU368...	4.15T15P	T15PQ



R = right hand version shown

L = left hand version

Part number	h	b	l_1	h_1	f	t_{max}	f_1	f_2	HWS
RU369.0750.01	.75	.75	$l-f_1+w-a_1$	1	1.063	.171	.059	.959	31201N • 31201R • 31201L • 31208N • 31211N
RU369.1000.01	1	1	$l-f_1+w-a_1$	1	1.26	.171	.059	1.156	31201N • 31201R • 31201L • 31208N • 31211N
RU369.0750.02	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.098	.919	31202N • 31202R • 31202L
RU369.1000.02	1	1	$l-f_1+w-a_1$	1	1.26	.25	.098	1.116	31202N • 31202R • 31202L
RU369.0750.03	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.138	.919	31203N • 31203R • 31203L
RU369.1000.03	1	1	$l-f_1+w-a_1$	1	1.26	.25	.138	1.116	31203N • 31203R • 31203L
RU369.0750.04	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.205	.919	31204N • 31204R • 31204L
RU369.1000.04	1	1	$l-f_1+w-a_1$	1	1.26	.25	.205	1.116	31204N • 31204R • 31204L
LU369.0750.01	.75	.75	$l-f_1+w-a_1$	1	1.063	.171	.059	.959	31201N • 31201R • 31201L • 31208N • 31211N
LU369.1000.01	1	1	$l-f_1+w-a_1$	1	1.26	.171	.059	1.156	31201N • 31201R • 31201L • 31208N • 31211N
LU369.0750.02	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.098	.919	31202N • 31202R • 31202L
LU369.1000.02	1	1	$l-f_1+w-a_1$	1	1.26	.25	.098	1.116	31202N • 31202R • 31202L
LU369.0750.03	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.138	.919	31203N • 31203R • 31203L
LU369.1000.03	1	1	$l-f_1+w-a_1$	1	1.26	.25	.138	1.116	31203N • 31203R • 31203L
LU369.0750.04	.75	.75	$l-f_1+w-a_1$	1	1.063	.25	.205	.919	31204N • 31204R • 31204L
LU369.1000.04	1	1	$l-f_1+w-a_1$	1	1.26	.25	.205	1.116	31204N • 31204R • 31204L

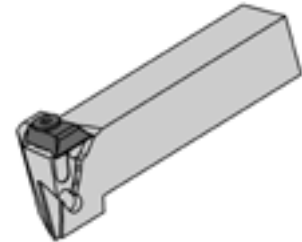
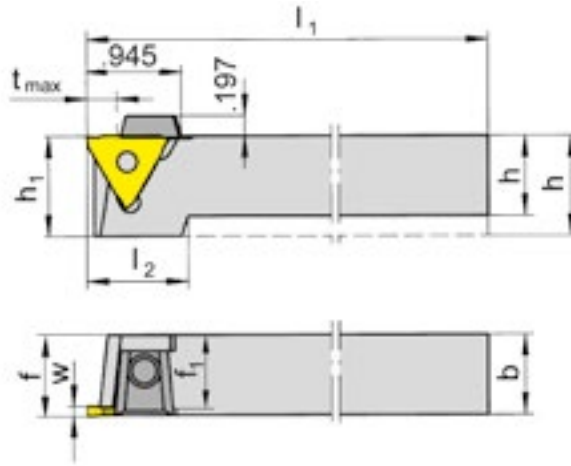
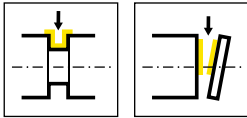
w, a1 see indexable inserts

 t_{max} can be reached only with workpiece $\varnothing \leq 1.575''$

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU369...	16.4



C3

R = right hand version shown

L = left hand version

Part number	h	b	l_1	l_2	h_1	f	HWS
RU390.0750.02	.75	.75	5.118	.945	1	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.1000.02	1	1	6.004	-	1	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.1250.02	1.25	1.25	6.004	-	1.25	$f_1 + w - a_1$	31202N • 31202R • 31202L
RU390.0750.03	.75	.75	5.118	.866	1	$f_1 + w - a_1$	31203N • 31203R • 31203L
RU390.1000.03	1	1	6.004	-	1	$f_1 + w - a_1$	31203N • 31203R • 31203L
RU390.0750.04	.75	.75	5.118	.866	1	$f_1 + w - a_1$	31204N • 31204R • 31204L
RU390.1000.04	1	1	6.004	-	1	$f_1 + w - a_1$	31204N • 31204R • 31204L
RU390.1250.04	1.25	1.25	6.693	-	1.25	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.0750.02	.75	.75	5.118	.945	1	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.1000.02	1	1	6.004	-	1	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.1250.02	1.25	1.25	6.004	-	1.25	$f_1 + w - a_1$	31202N • 31202R • 31202L
LU390.0750.03	.75	.75	5.118	.866	1	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.1000.03	1	1	6.004	-	1	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.1250.03	1.25	1.25	6.693	-	1.25	$f_1 + w - a_1$	31203N • 31203R • 31203L
LU390.0750.04	.75	.75	5.118	.866	1	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.1000.04	1	1	6.004	-	1	$f_1 + w - a_1$	31204N • 31204R • 31204L
LU390.1250.04	1.25	1.25	6.693	-	1.25	$f_1 + w - a_1$	31204N • 31204R • 31204L

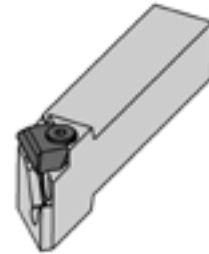
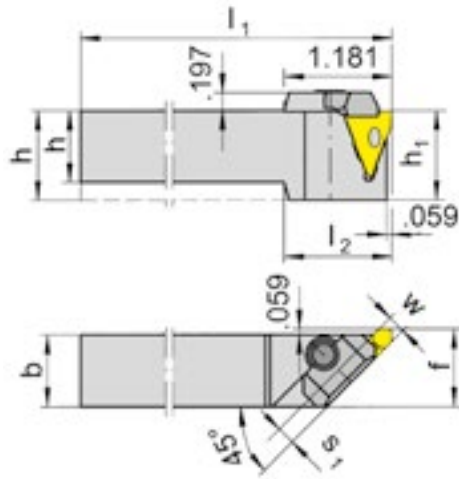
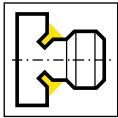
w, a1 see indexable inserts

tmax can be reached only with workpiece $\varnothing \leq 1.575''$

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/L390...	16.4



R = right hand version shown

L = left hand version

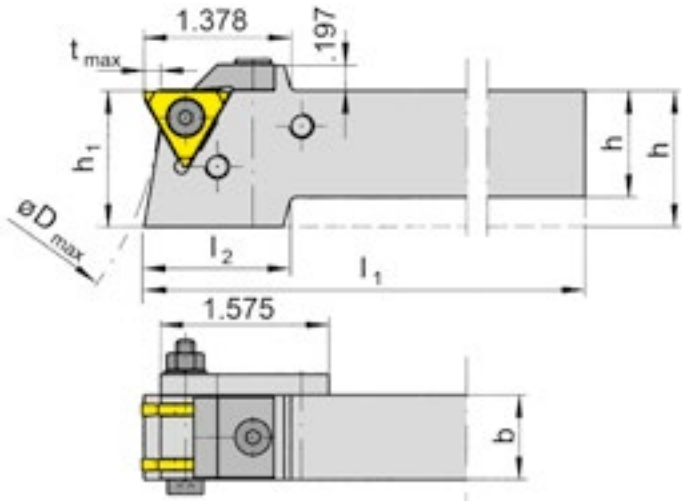
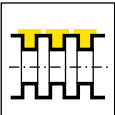
Part number	h	b	l ₁	l ₂	h ₁	f	s ₁	HWS
RU309.0750.02	.75	.75	5.118	1.181	1	.809	.098	31202L • 31202R • 31202N
RU309.1000.02	1	1	6.004	-	1	1.059	.098	31202L • 31202R • 31202N
RU309.1250.02	1.25	1.25	6.693	-	1.25	1.309	.098	31202L • 31202R • 31202N
RU309.0750.03	.75	.75	5.118	1.181	1.004	.809	.138	31203L • 31203R • 31203N
RU309.1000.03	1	1	6.004	-	1.001	1.059	.138	31203L • 31203R • 31203N
RU309.0750.04	.75	.75	5.118	1.181	1.001	.809	.205	31204L • 31204R • 31204N
RU309.1000.04	1	1	6.004	-	1.001	1.059	.205	31204L • 31204R • 31204N
RU309.1250.04	1.25	1.25	6.693	-	1.251	1.309	.205	31204L • 31204R • 31204N
LU309.0750.02	.75	.75	5.118	1.181	1	.809	.098	31202L • 31202R • 31202N
LU309.1000.02	1	1	6.004	-	1	1.059	.098	31202L • 31202R • 31202N
LU309.1250.02	1.25	1.25	6.693	-	1.25	1.309	.098	31202L • 31202R • 31202N
LU309.0750.03	.75	.75	5.118	1.181	1.004	.809	.138	31203L • 31203R • 31203N
LU309.1000.03	1	1	6.004	-	1.001	1.059	.138	31203L • 31203R • 31203N
LU309.1250.03	1.25	1.25	6.693	-	1.251	1.309	.138	31203L • 31203R • 31203N
LU309.0750.04	.75	.75	5.118	1.181	1.001	.809	.205	31204L • 31204R • 31204N
LU309.1000.04	1	1	6.004	-	1.001	1.059	.205	31204L • 31204R • 31204N
LU309.1250.04	1.25	1.25	6.693	-	1.251	1.309	.205	31204L • 31204R • 31204N

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping element
R/LU309...	21.4



C3

Part number	h	b	l ₁	l ₂	h ₁	D _{max}	HWS
U340.0750.01	.75	.75	6.693	1.378	1.26	6.299	31201N
U340.1000.01	1	.75	6.693	1.378	1.26	6.299	31201N
U340.1250.01	1.25	.75	6.693	-	1.25	6.299	31201N

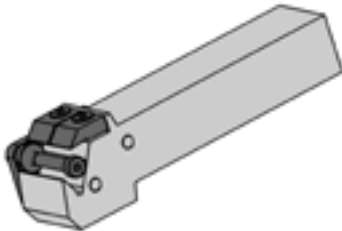
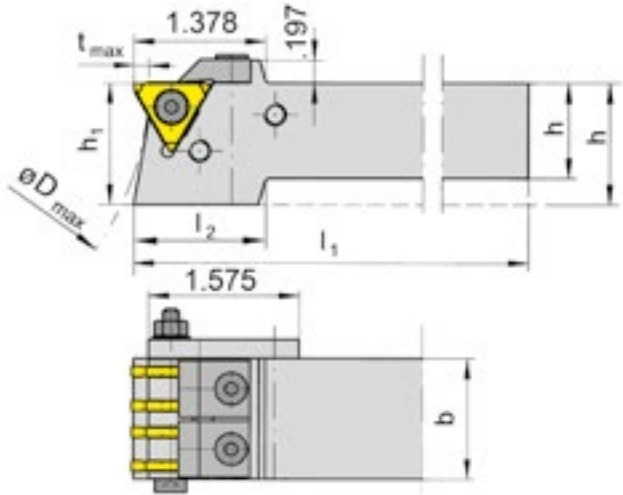
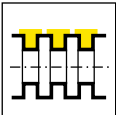
Only usable with special inserts type 312

Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Clamping element
U340...	5.30.7984	340.0200



Right hand mounted

Part number	h	b	l ₁	l ₂	h ₁	D _{max}	HWS
U340.1000.02	1	1.25	6.693	1.378	1.25	6.299	31202N
U340.1250.02	1.25	1.25	6.693	-	1.25	6.299	31202N

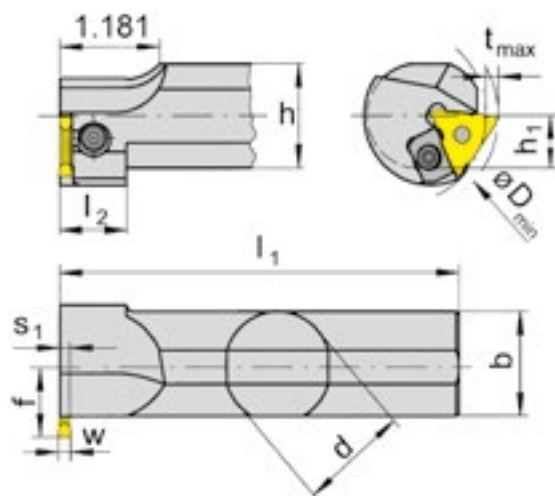
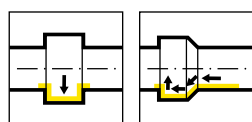
Only usable with special inserts type 312

Tube for producing spacing rings Part number 340.0012.50 separate order required

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Package screw	Clamping element
U340...	6.16.7991	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	11.732	.787	.921	.059	.461	.787	1.811	1	31201L • 31201R • 31201N
RU330.1250.01	1.25	14.016	.787	1.173	.059	.587	.787	1.811	1.176	31201L • 31201R • 31201N
RU330.1500.01	1.5	15.748	.787	1.425	.059	.713	.945	1.811	1.459	31201L • 31201R • 31201N
RU330.1000.K2	1	6.614	.787	.921	.098	.461	.787	1.811	1	31202L • 31202R • 31202N
RU330.1250.K2	1.25	7.992	.787	1.173	.098	.586	.787	1.811	1.176	31202L • 31202R • 31202N
RU330.1500.K2	1.5	10	.787	1.421	.098	.711	.945	1.811	1.496	31202L • 31202R • 31202N
RU330.1000.K3	1	6.614	.787	.921	.138	.461	.787	1.811	1	31203L • 31203R • 31203N
LU330.1250.01	1.25	14.016	.787	1.173	.059	.587	.787	1.811	1.176	31201L • 31201R • 31201N
LU330.1500.01	1.5	15.748	.787	1.425	.059	.713	.945	1.811	1.459	31201L • 31201R • 31201N
LU330.1000.K2	1	6.614	.787	.921	.098	.461	.787	1.811	1	31202L • 31202R • 31202N
LU330.1250.K2	1.25	7.992	.787	1.173	.098	.586	.787	1.811	1.176	31202L • 31202R • 31202N
LU330.1500.K2	1.5	10	.787	1.421	.098	.711	.945	1.811	1.459	31202L • 31202R • 31202N
LU330.1000.K3	1	6.614	.787	.921	.138	.461	.787	1.811	1	31203L • 31203R • 31203N

w see indexable inserts

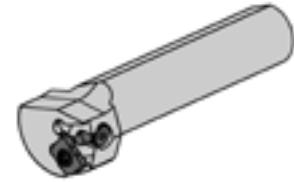
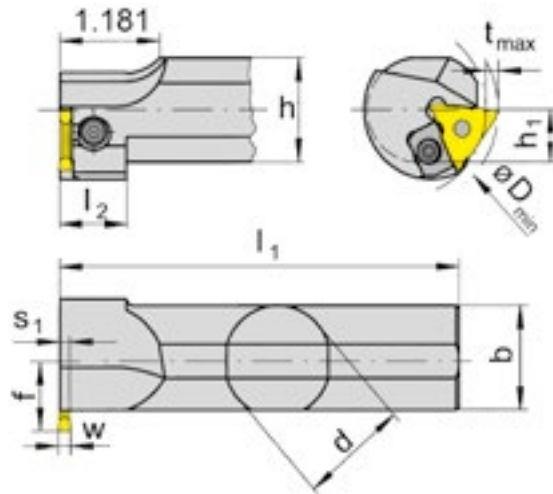
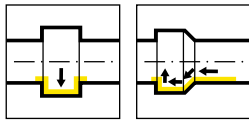
Dimensions in inch

Depth of groove in relation to bore ø

Dmin	tmax
1.811	.079
1.968	.118
2.362	.157
3.149	.177
3.937	.197

Spare Parts

Basic toolholder	Clamping element	Clamping Screw	TORX PLUS® Wrench
R/LU330....	15.4	5.12T20P	T20PQ



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
RU330.1250.K3	1.25	7.992	.787	1.173	.137	.586	.787	1.811	1.176	31203L • 31203R • 31203N
RU330.1500.K3	1.5	10	.787	1.425	.138	.713	.945	1.811	1.459	31203L • 31203R • 31203N
RU330.1000.K4	1	6.614	.787	.921	.217	.461	.787	1.811	1	31204L • 31204R • 31204N
RU330.1250.K4	1.25	7.992	.787	1.173	.217	.587	.787	1.811	1.176	31204L • 31204R • 31204N
RU330.1500.K4	1.5	10	.787	1.425	.217	.713	.945	1.811	1.459	31204L • 31204R • 31204N
LU330.1250.K3	1.25	7.992	.787	1.171	.137	.586	.787	1.811	1.171	31203L • 31203R • 31203N
LU330.1500.K3	1.5	10	.787	1.425	.138	.713	.945	1.811	1.459	31203L • 31203R • 31203N
LU330.1000.K4	1	6.614	.787	.921	.217	.461	.787	1.811	1	31204L • 31204R • 31204N
LU330.1250.K4	1.25	7.992	.787	1.173	.217	.587	.787	1.811	1.176	31204L • 31204R • 31204N
LU330.1500.K4	1.5	10	.787	1.425	.217	.713	.945	1.811	1.459	31204L • 31204R • 31204N

w see indexable inserts

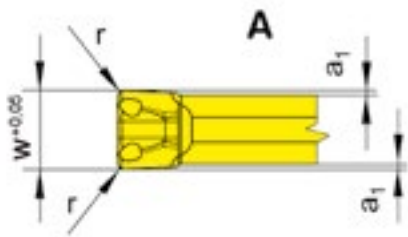
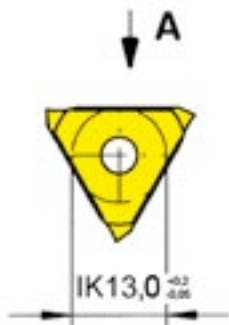
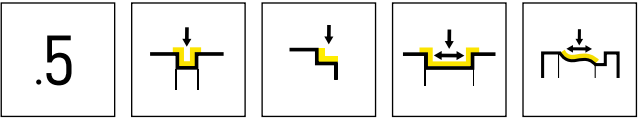
Dimensions in inch

Depth of groove in relation to bore ø

D_{min}	t_{max}
1.811	.079
1.968	.118
2.362	.157
3.149	.177
3.937	.197

Spare Parts

Basic toolholder	Clamping element	Clamping Screw	TORX PLUS® Wrench
R/LU330....	15.4	5.12T20P	T20PQ

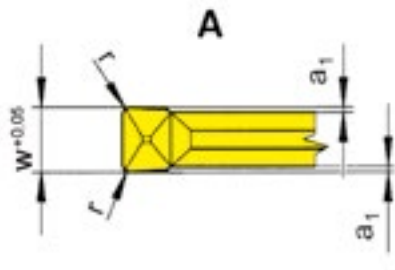
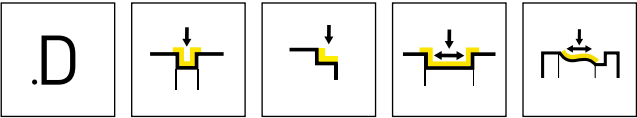


C3

Carbide grades

▲ on stock Δ 4 weeks

Part number	w	r	a ₁	HIS	TF46	
US312.0094.58	.094	.008	.01	31202N	▲	
US312.0125.58	.125	.008	.01	31203N	▲	
Dimensions in inch					P	●
					M	o
					K	●
					N	●
					S	o
					H	-



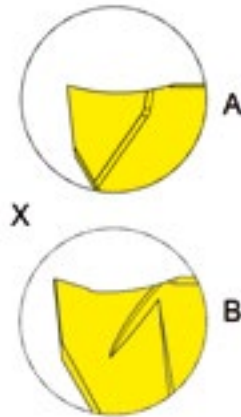
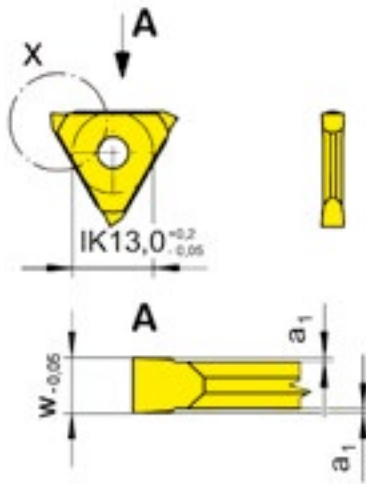
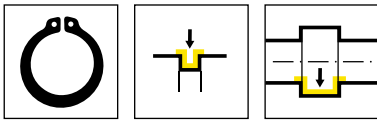
C3

Carbide grades

▲ on stock

Δ 4 weeks

Part number	w	r	a ₁	HIS		TF45	TF46	TI25
US312.0094.D16	.094	.016	.01	31202N				▲
US312.0094.D8	.094	.008	.01	31202N			▲	
US312.0125.D8	.125	.008	.014	31203N		▲	▲	
Dimensions in inch					P	●	●	●
					M	●	○	●
					K	●	●	●
					N	●	●	●
					S	●	○	●
					H	-	-	-



Form A = completely ground

Form B = partially ground

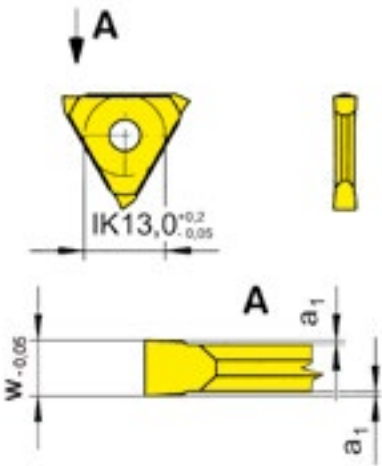
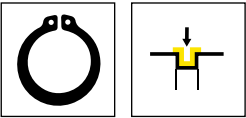
▲ on stock

△ 4 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	.04	.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	.25	.008	31204N					▲		

Dimensions in inch

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

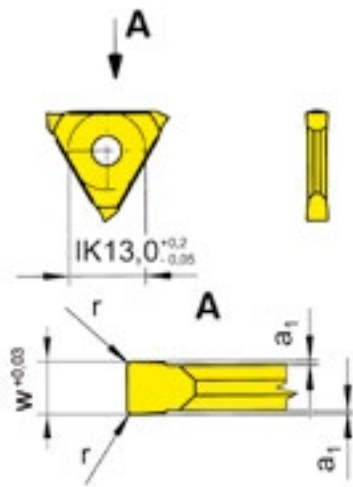
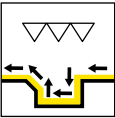


C3

Carbide grades

▲ on stock Δ 4 weeks

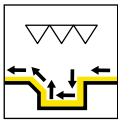
Part number	w	a ₁	HIS	TN35	
U312.0062.80	.062	.008	31201N	▲	
Dimensions in inch				P	●
				M	●
				K	●
				N	●
				S	●
				H	-



Carbide grades

▲ on stock Δ 4 weeks

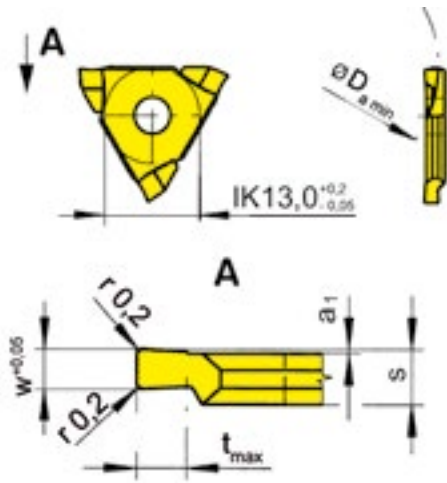
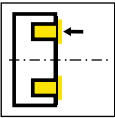
Part number	w	r	a ₁	HIS	MG12	TF46	TI25
U312.0062.08	.062	.008	.01	31201N		▲	▲
U312.0094.08	.094	.008	.01	31202N	▲	▲	▲
U312.0094.16	.094	.016	.01	31202N		▲	
U312.0094.32	.094	.031	.01	31202N		▲	▲
U312.0125.08	.125	.008	.01	31203N		▲	▲
U312.0125.16	.125	.016	.01	31203N		▲	
U312.0250.08	.25	.008	.01	31204N		▲	▲
Dimensions in inch					P	o	•
					M	-	o
					K	-	•
					N	-	•
					S	-	o
					H	-	-



Carbide grades

▲ on stock Δ 4 weeks

Part number	w	r	a ₁	HIS		TF46	TI22	TN32
U312.0031.62	.062	.031	.01	31201N		▲	▲	
U312.0039.78	.078	.039	.01	31201N		▲	▲	
U312.0047.94	.094	.047	.01	31202N		▲	▲	
U312.0062.12	.125	.063	.01	31203N		▲	▲	▲
Dimensions in inch					P	●	●	●
					M	o	-	-
					K	●	-	-
					N	●	-	-
					S	o	-	-
					H	-	-	-



R = right hand version shown

L = left hand version

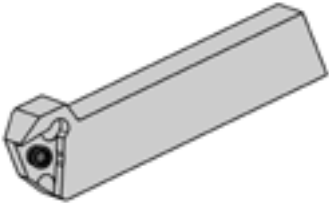
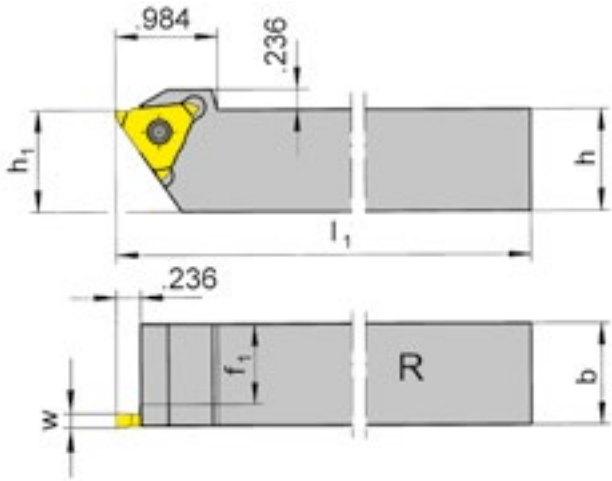
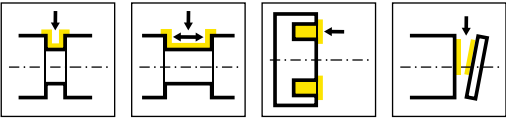
Carbide grades
▲ on stock Δ 4 weeks

Part number	w	t _{max}	a ₁	s	D _{a min}	HIS	TN35
RU312.2062.08	.062	.079	.008	.106	.787	31203R	▲
RU312.3094.08	.094	.118	.008	.146	1.181	31203R	Δ
RU312.3125.08	.125	.118	.008	.146	1.181	31203R	▲
LU312.2062.08	.062	.079	.008	.106	.787	31203L	▲
LU312.3094.08	.094	.118	.008	.146	1.181	31203L	Δ
LU312.3125.08	.125	.118	.008	.146	1.181	31203L	▲
Dimensions in inch							P ●
							M ●
							K ●
							N ●
							S ●
							H -

315



Toolholders



R = right hand version shown L = left hand version

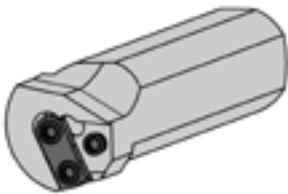
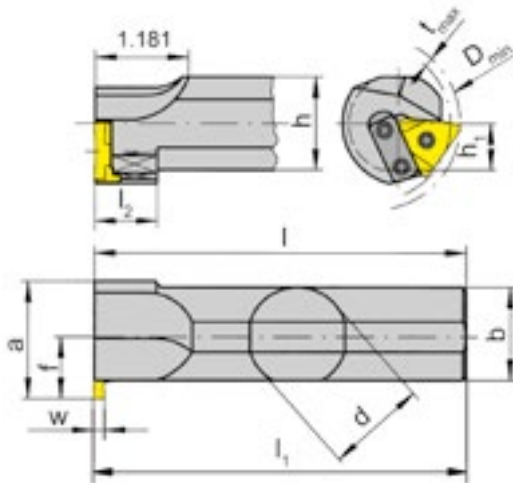
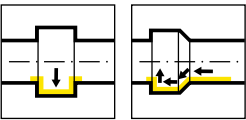
Part number	h_Inch	b_inch	l1_Inch	h1_Inch	f1_Inch	HWS
RU356.0750.05	.75	.75	5.118	.75	.545	31505L
RU356.1000.05	1	1	6.004	1	.795	31505L
RU356.1250.05	1.25	1.25	6.693	1.25	1.045	31505L
LU356.0750.05	.75	.75	5.118	.75	.545	31505L
LU356.1000.05	1	1	6.004	1	.795	31505L
LU356.1250.05	1.25	1.25	6.693	1.25	1.045	31505L

w see indexable inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LU356...	5.12T20P	T20PQ



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	6.693	6.705	.787	.921	1.654	.461	.945	1.693	1	31505L
RU333.1250.05	1.25	7.992	8.004	.787	1.171	1.496	.586	.787	1.693	1.174	31505L
RU333.1500.05	1.5	10	10.012	.787	1.421	1.732	.711	.945	1.693	1.457	31505L
LU333.1000.05	1	6.693	6.705	.787	.921	1.654	.461	.945	1.693	1	31505L
LU333.1250.05	1.25	7.992	8.004	.787	1.171	1.496	.586	.787	1.693	1.174	31505L
LU333.1500.05	1.5	10	10.012	.787	1.421	1.732	.711	.945	1.693	1.457	31505L

w see indexable inserts

Dimensions in inch

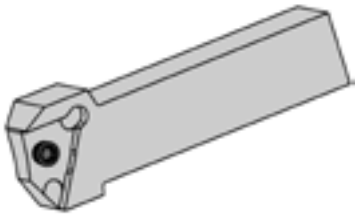
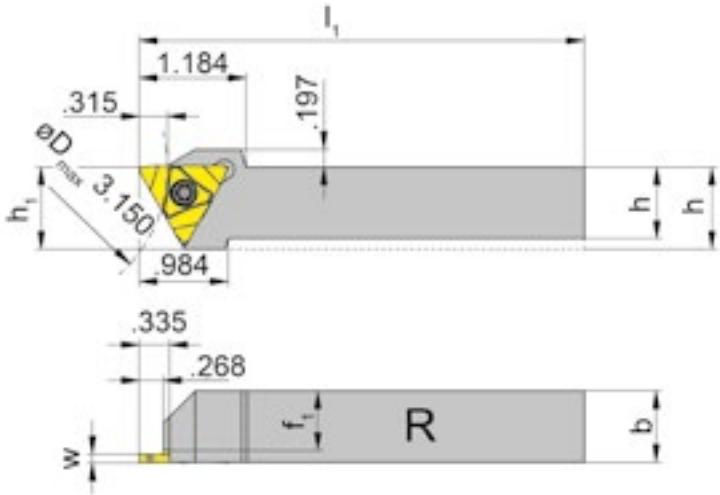
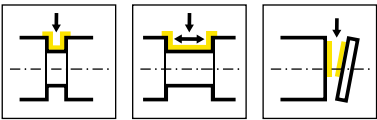
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LU333...	5.12T20P	T20PQ

316



Toolholders



R = right hand version shown

L = left hand version

Part number	h	b	l ₁	h ₁	f ₁	HWS
RHU316.0500.S3.03	.5	.5	3.937	.5	.37	S31603L
RHU316.0750.S3.03	.75	.75	5	.906	.62	S31603R
RHU316.1000.S3.03	1	1	6	1	.87	S31603R
RHU316.1250.S3.03	1.25	1	6.693	1.25	.87	S31603R
LHU316.0500.S3.03	.5	.5	3.937	.5	.37	31603L
LHU316.0750.S3.03	.75	.75	5	.906	.62	S31603L
LHU316.1000.S3.03	1	1	6	1	.87	S31603L
LHU316.1250.S3.03	1.25	1	6.693	1.25	.87	S31603L

w see indexable inserts

Dimensions in inch

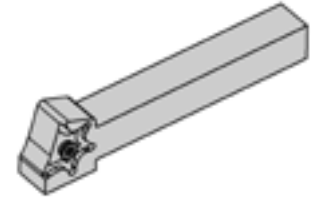
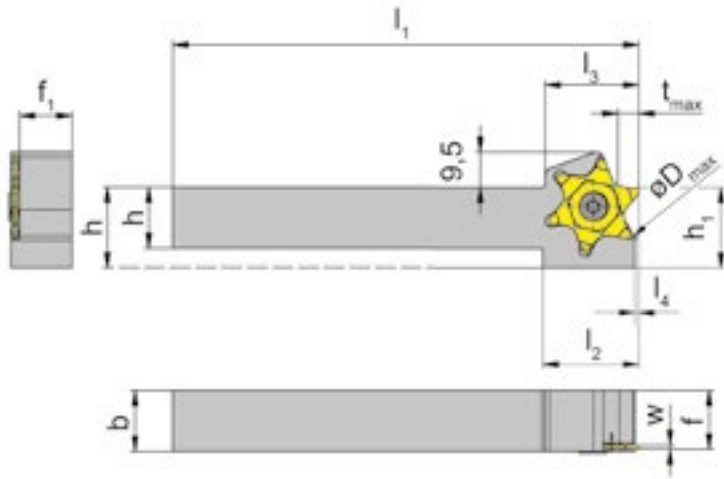
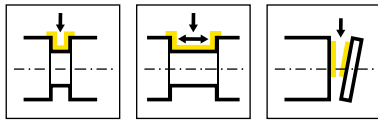
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU316...	5.12T20P	T20PQ

64T



Toolholders



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	.5	.5	4.921	.965	.511	.437	f_1+w+a_1	64T01N
RHU64T.0500.20	.5	.5	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	.75	.75	4.921	.965	.947	.686	f_1+w+a_1	64T01N
RHU64T.0750.20	.75	.75	4.921	.965	.947	.646	f_1+w+a_1	64T02N
RHU64T.1000.10	1	1	4.921	.965	1	.936	f_1+w+a_1	64T01N
RHU64T.1000.20	1	1	4.921	.965	1	.896	f_1+w+a_1	64T02N
LHU64T.0500.10	.5	.5	4.921	.965	.511	.437	f_1+w+a_1	64T01N
LHU64T.0500.20	.5	.5	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	.75	.75	4.921	.965	.947	.686	f_1+w+a_1	64T01N
LHU64T.0750.20	.75	.75	4.921	.965	.947	.646	f_1+w+a_1	64T02N
LHU64T.1000.10	1	1	4.921	.965	1	.936	f_1+w+a_1	64T01N
LHU64T.1000.20	1	1	4.921	.965	1	.896	f_1+w+a_1	64T02N

w see indexable inserts

Dimensions in inch

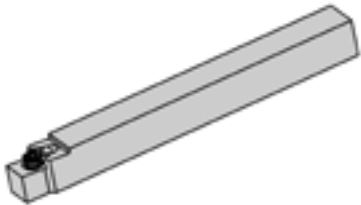
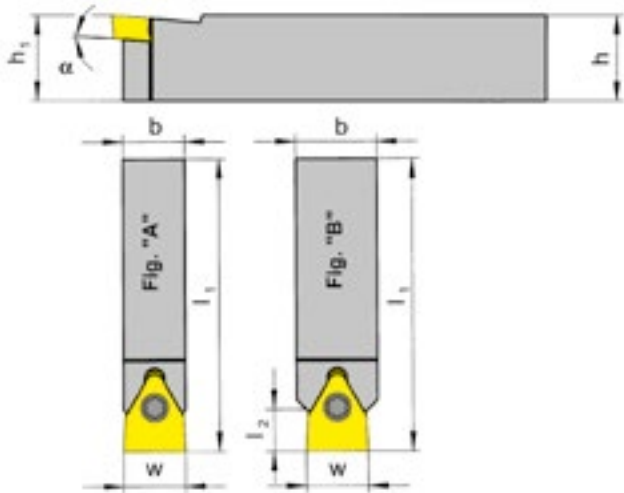
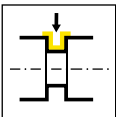
Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU64T...	030.4010.T15P	T15PQ

117



C4



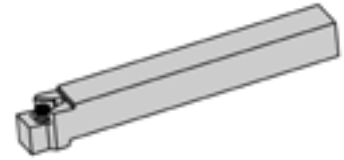
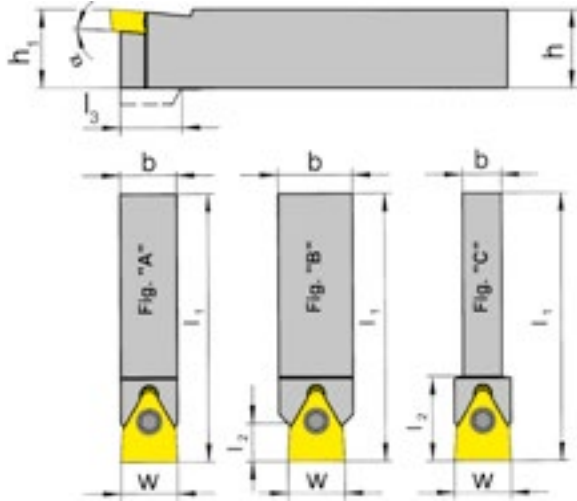
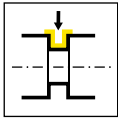
C4

Part number	h	b	l ₁	h ₁	α	Figur	l ₂	w	Insert	HWS
HU117.0375.10	.375	.375	3.937	.375	5°	A	-	.394	S117.0010.00	1170805
HU117.0500.10	.5	.5	4.921	.5	5°	B	.303	.394	S117.0010.00	1170805
HU117.0625.10	.625	.625	4.921	.625	5°	B	.303	.394	S117.0010.00	1170805
HU117.0500.12	.5	.5	4.921	.5	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	.75	.75	5.906	.75	5°	B	.256	.472	S117.0012.00	1171205

Dimensions in inch

Spare Parts

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



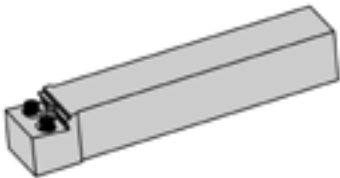
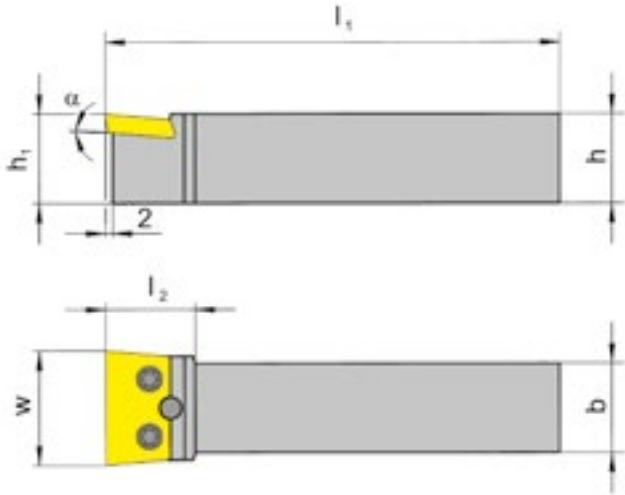
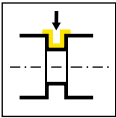
C4

Part number	h	b	l ₁	h ₁	a	Figur	l ₂	w	Insert	HWS
HU117.0500.16	.5	.5	4.921	.5	5°	C	.335	.63	S117.0014/16.00	1171605
HU117.0625.16	.625	.625	4.921	.625	5°	A / B	.335	.63	S117.0014/16.00	1171605
HU117.0750.16	.75	.75	5.906	.75	5°	B	.335	.63	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	.75	.75	5.906	.75	5°	A / B	.531	.827	S117.0018/20.00	1172005
HU117.1000.20	1	1	5.906	1	5°	B	.531	.827	S117.0018/20.00	1172005
HU117.0750.26	.75	.75	5.906	.75	5°	C	1.181	1.024	S117.0026.00	1172605
HU117.1000.26	1	1	5.906	1	5°	A	.492	1.024	S117.0026.00	1172605

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
HU117...16	5.12T20P	T20PQ
HU117...20/.26	6.17T20P	T20PQ



C4

Part number	h	b	l ₁	h ₁	a	l ₂	w	Insert	HWS
HU117.0750.32	.75	.75	5.906	.75	5°	.984	1.26	S117.0032.00	1173205
HU117.1000.32	1	1	5.906	1	5°	.984	1.26	S117.0032.00	1173205
HU117.1000.45	1	1	5.906	1	5°	1.063	1.772	S117.0045.00	1174505
HU117.1250.45	1.25	1.25	6.693	1.25	5°	1.063	1.772	S117.0045.00	1174505

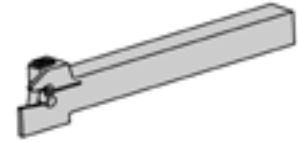
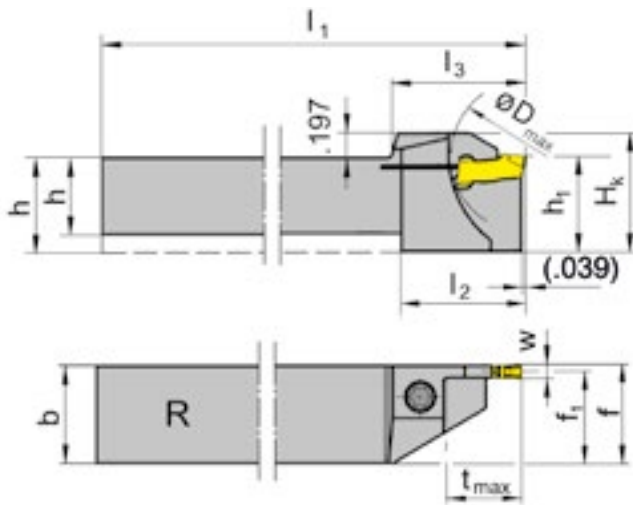
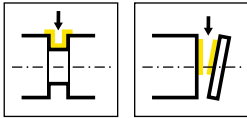
Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
HU117...	5.12T20P	T20PQ

100





R = right hand version shown

L = left hand version

C4

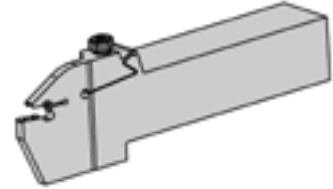
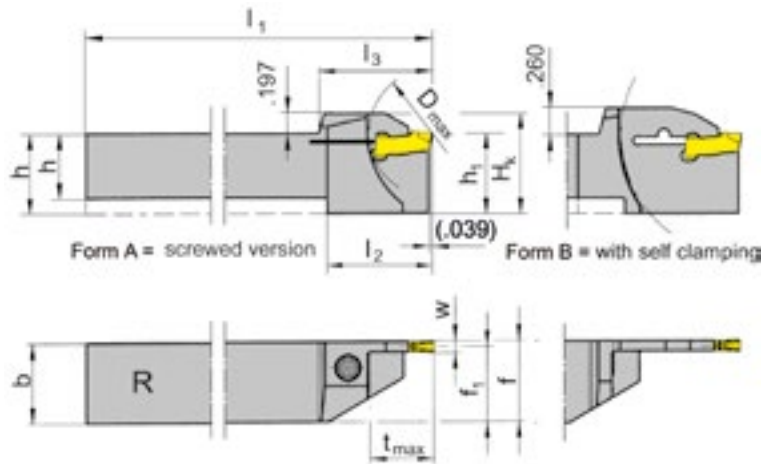
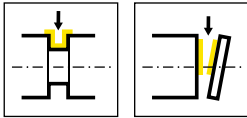
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0375.01	.375	.375	5.118	.748	.827	.512	.345	f ₁ +w/2	.413	.827	.709	A	100018
RHU100.0500.01	.5	.5	5.118	.827	.906	.625	.47	f ₁ +w/2	.512	1.024	.822	A	100018
RHU100.0500.11	.5	.5	5.118	.827	1.024	.625	.47	f ₁ +w/2	.63	1.654	.822	A	100018
RHU100.0625.11	.625	.625	5.118	.945	1.024	.625	.595	f ₁ +w/2	.63	1.654	.947	A	100018
RHU100.0750.11	.75	.75	5.118	-	1.024	.75	.72	f ₁ +w/2	.63	1.654	.947	A	100018
RHU100.0625.21	.625	.625	5.118	1.181	1.319	.75	.595	f ₁ +w/2	.827	1.654	.947	A	100018
RHU100.0750.21	.75	.75	5.118	-	1.319	.75	.72	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	.5	.5	5.118	.827	.906	.625	.47	f ₁ +w/2	.512	1.024	.822	A	100018
LHU100.0500.11	.5	.5	5.118	.827	1.024	.625	.47	f ₁ +w/2	.63	1.654	.822	A	100018
LHU100.0625.11	.625	.625	5.118	.945	1.024	.75	.595	f ₁ +w/2	.63	1.654	.947	A	100018
LHU100.0750.11	.75	.75	5.118	-	1.024	.75	.72	f ₁ +w/2	.63	1.654	.947	A	100018
LHU100.0625.21	.625	.625	5.118	1.181	1.319	.75	.595	f ₁ +w/2	.827	1.654	.947	A	100018
LHU100.0750.21	.75	.75	5.118	-	1.319	.75	.72	f ₁ +w/2	.827	1.654	.947	A	100018
LHU100.1000.21	1	1	6.004	-	1.319	1	.972	f ₁ +w/2	.827	1.654	1.197	A	100018

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU100....	4.15T15P	T15PQ



R = right hand version shown

L = left hand version

C4

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	.5	.5	5.118	.827	.906	.625	.463	$f_1+w/2$	.512	.984	.822	A	100028
RHU100.0625.02	.625	.625	5.118	.748	.827	.75	.588	$f_1+w/2$	.413	1.654	.947	A	100028
RHU100.0500.12	.5	.5	5.118	.945	1.024	.75	.463	$f_1+w/2$	.63	1.654	.947	A	100028
RHU100.0625.12	.625	.625	5.118	.945	1.024	.75	.588	$f_1+w/2$	.63	1.654	.947	A	100028
RHU100.0750.12	.75	.75	5.118	-	1.024	.75	.713	$f_1+w/2$	.63	1.654	.947	A	100128
RHU100.0750.22	.75	.75	5.118	-	1.319	.75	.713	$f_1+w/2$	.827	1.654	.947	A	100128
RHU100.0750.32	.75	.75	5.118	1.378	1.516	1	.713	$f_1+w/2$	1.28	2.559	1.26	B	100028
LHU100.0500.02	.5	.5	5.118	.827	.906	.625	.463	$f_1+w/2$	.512	.984	.822	A	100028
LHU100.0625.02	.625	.625	5.118	.748	.827	.75	.588	$f_1+w/2$	.413	1.654	.947	A	100028
LHU100.0500.12	.5	.5	5.118	.945	1.024	.75	.463	$f_1+w/2$	.63	1.654	.947	A	100028
LHU100.0625.12	.625	.625	5.118	.945	1.024	.75	.588	$f_1+w/2$	.63	1.654	.947	A	100028
LHU100.0750.12	.75	.75	5.118	-	1.024	.75	.713	$f_1+w/2$	.63	1.654	.947	A	100128
LHU100.0625.22	.625	.625	5.118	1.181	1.319	.75	.588	$f_1+w/2$	.827	1.654	.947	A	100128
LHU100.0750.22	.75	.75	5.118	-	1.319	.75	.713	$f_1+w/2$	.827	1.654	.947	A	100128
LHU100.0750.32	.75	.75	5.118	1.378	1.516	1	.713	$f_1+w/2$	1.28	2.559	1.26	B	100028

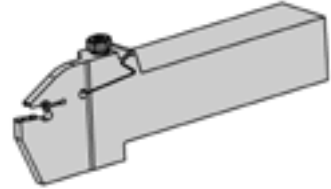
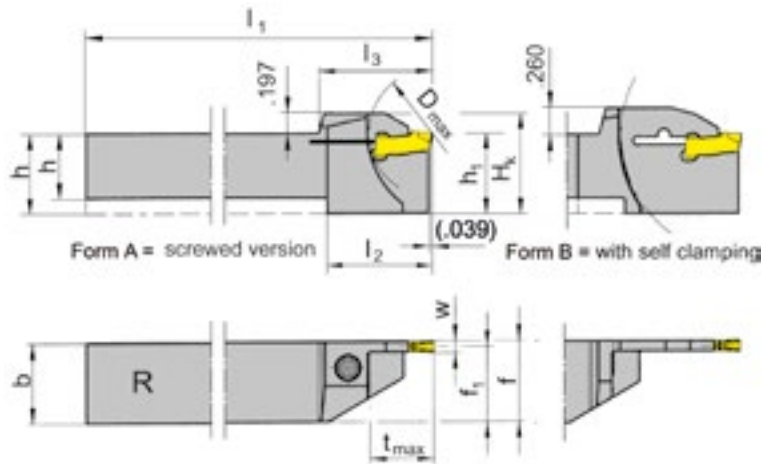
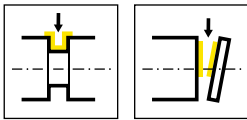
w see inserts

Wrench **P39L** is not combined with blade R/LH100.2020.32 - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench
R/LHU100....	4.15T15P	T15PQ	
LHU100.0750.32			P39L



R = right hand version shown

L = left hand version

C4

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	.5	.5	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	.75	.58	$f_1+w/2$	.413	1.654	.947	A	100038
RHU100.0625.13	.625	.625	5.118	.984	1.122	.75	.58	$f_1+w/2$	.63	1.654	.947	A	100038
RHU100.0750.13	.75	.75	5.118	-	1.122	.75	.705	$f_1+w/2$	.63	1.654	.947	A	100038
RHU100.1000.13	1	1	6.004	-	1.122	1	.955	$f_1+w/2$	.63	1.654	1.197	A	100038
RHU100.0625.23	.625	.625	5.118	1.181	1.319	.75	.58	$f_1+w/2$	.827	1.654	.947	A	100038
RHU100.0750.23	.75	.75	5.118	-	1.319	.75	.705	$f_1+w/2$	.827	1.654	.947	A	100038
RHU100.1000.23	1	1	6.004	-	1.319	1	.955	$f_1+w/2$	.827	1.654	1.197	A	100038
RHU100.0750.33	.75	.75	5.118	-	1.516	1	.705	$f_1+w/2$	1.28	2.559	1.26	B	100038
RHU100.1000.33	1	1	6	-	1.516	1	.955	$f_1+w/2$	1.28	2.559	1.26	B	100038
RHU100.0750.73	.75	.75	5.118	-	1.575	.75	.705	$f_1+w/2$	.984	1.969	.986	A	100038
RHU100.1000.73	1	1	5.118	-	1.575	1	.955	$f_1+w/2$	.984	1.969	1.236	A	100038
LHU100.0500.03	.5	.5	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	.75	.58	$f_1+w/2$	.413	1.654	.947	A	100038
LHU100.0625.13	.625	.625	5.118	.984	1.122	.75	.58	$f_1+w/2$	.63	1.654	.947	A	100038
LHU100.0750.13	.75	.75	5.118	-	1.122	.75	.705	$f_1+w/2$	.63	1.654	.947	A	100038
LHU100.1000.13	1	1	6.004	-	1.122	1	.955	$f_1+w/2$	.63	1.654	1.197	A	100038
LHU100.0625.23	.625	.625	5.118	1.181	1.319	.75	.58	$f_1+w/2$	.827	1.654	.947	A	100038
LHU100.0750.23	.75	.75	5.118	-	1.319	.75	.705	$f_1+w/2$	.827	1.654	.947	A	100038
LHU100.1000.23	1	1	6.004	-	1.319	1	.955	$f_1+w/2$	.827	1.654	1.197	A	100038
LHU100.0750.33	.75	.75	5.118	1.378	1.516	1	.705	$f_1+w/2$	1.28	2.559	1.26	B	100038
LHU100.0750.73	.75	.75	5.118	-	1.575	.75	.705	$f_1+w/2$	.984	1.969	.986	A	100038

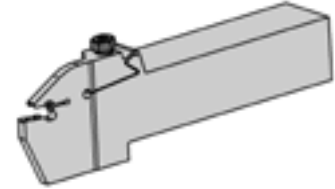
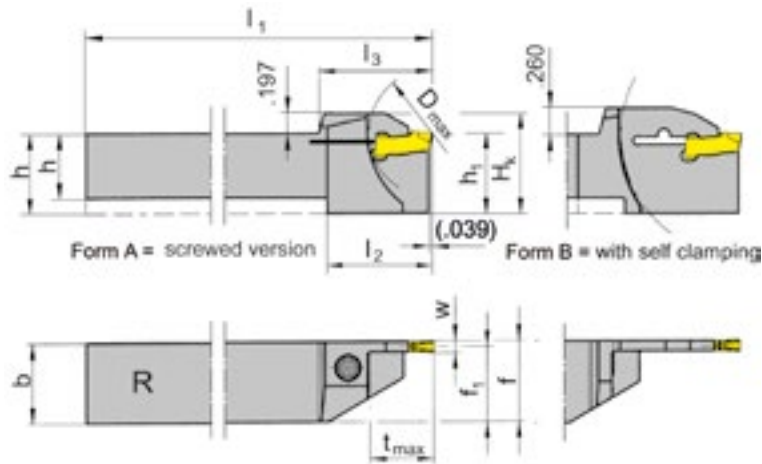
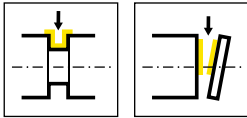
w see inserts

Wrench **P39L** is not combined with blade R/LH100...33 - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench
R/LHU100...	5.17T20P	T20PQ	
LHU100.0750.33			P39L



R = right hand version shown

L = left hand version

C4

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	.75	.75	5.118	-	1.122	.75	.689	f ₁ +w/2	.63	1.654	.947	A	100048
RHU100.1000.14	1	1	6.004	-	1.122	1	.939	f ₁ +w/2	.63	1.654	1.197	A	100048
RHU100.0625.24	.625	.625	5.118	1.181	1.319	.75	.564	f ₁ +w/2	.827	1.654	.947	A	100048
RHU100.0750.34	.75	.75	5.118	1.378	1.516	1	.689	f ₁ +w/2	1.28	2.559	1.26	B	100048
RHU100.1000.34	1	1	6	-	1.831	1	.939	f ₁ +w/2	1.594	3.189	1.51	B	100048
LHU100.0750.3.04	.75	.75	6.004	1.969	2.362	1.26	.677	f ₁ +w/2	1.299	-	1.693	A	100048
LHU100.0750.14	.75	.75	5.118	-	1.122	.75	.689	f ₁ +w/2	.63	1.654	.947	A	100048
LHU100.1000.14	1	1	6.004	-	1.122	1	.939	f ₁ +w/2	.63	1.654	1.197	A	100048
LHU100.0625.24	.625	.625	5.118	1.181	1.319	.75	.564	f ₁ +w/2	.827	1.654	.947	A	100048
LHU100.0750.34	.75	.75	5.118	1.378	1.516	1	.689	f ₁ +w/2	1.28	2.559	1.26	B	100048
LHU100.0750.74	.75	.75	5.118	-	1.575	.75	.689	f ₁ +w/2	.984	1.969	.986	A	100048

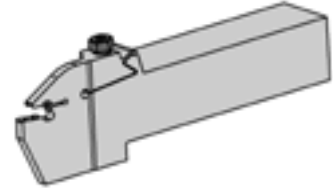
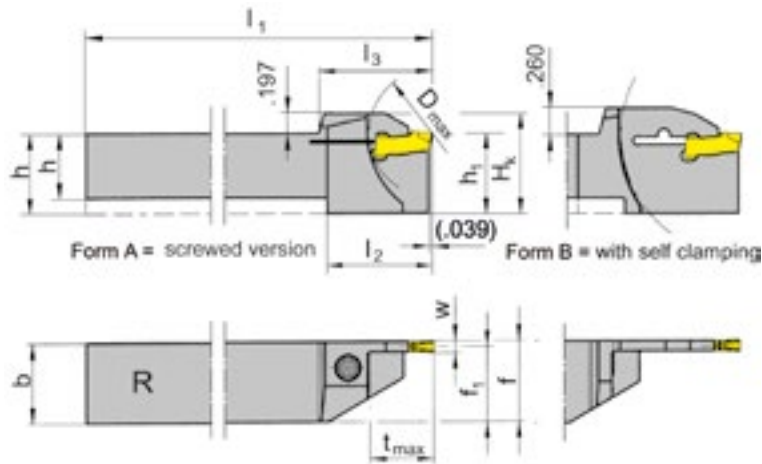
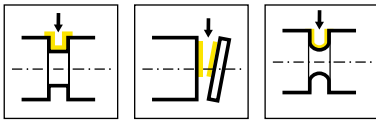
w see inserts

Wrench **P39L** is not combined with blade R/LH100...34 - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench
RHU100...	5.17T20P	T20PQ	
LHU100.0750.3.04	030.6075.T20P	T20PQ	
LHU100.0750.34			P39L
LHU100.0750.74	6.23T25P	T25PQ	



R = right hand version shown

L = left hand version

C4

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	-	.75	6.004	-	2.362	1.26	.657	f ₁ +w/2	1.299	-	.75	A	
RHU100.0750.15	.75	.75	5.118	-	1.122	.75	.673	f ₁ +w/2	.63	1.654	.947	A	100058
RHU100.1000.15	1	1	6.004	-	1.122	1	.923	f ₁ +w/2	.63	1.654	1.197	A	100058
RHU100.0750.35	.75	.75	5.118	1.378	1.516	1	.673	f ₁ +w/2	1.28	2.559	1.26	B	100058
RHU100.1000.35	1	1	6	-	1.831	1	.923	f ₁ +w/2	1.594	3.189	1.51	B	
LHU100.0750.15	.75	.75	5.118	-	1.122	.75	.673	f ₁ +w/2	.63	1.654	.947	A	100058
LHU100.1000.15	1	1	6.004	-	1.122	1	.923	f ₁ +w/2	.63	1.654	1.197	A	100058
LHU100.0750.35	.75	.75	5.118	1.378	1.516	1	.673	f ₁ +w/2	1.28	2.559	1.26	B	100058

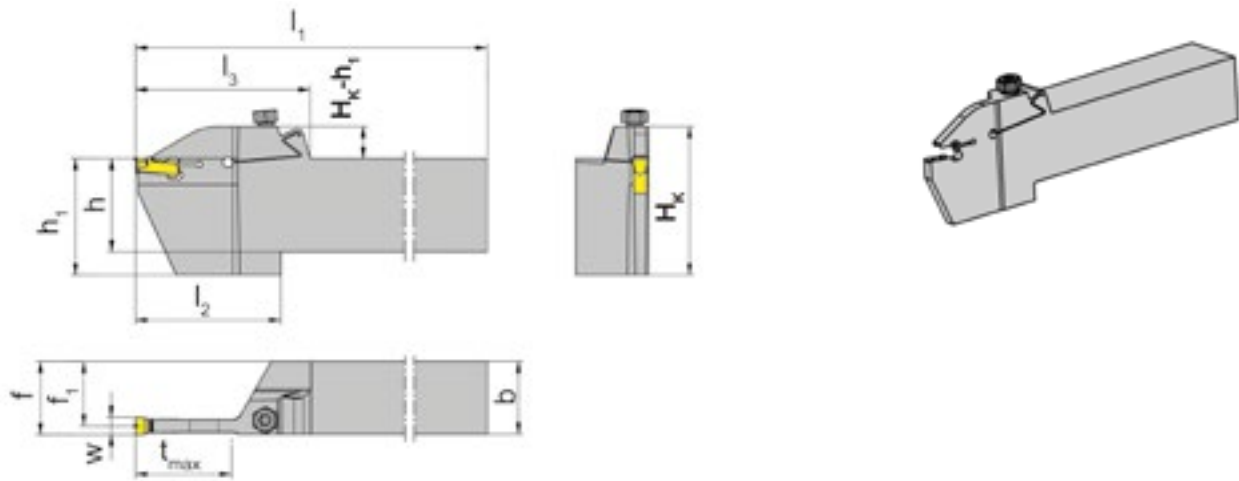
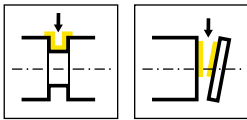
w see inserts

Wrench **P39L** is not combined with blade R/LH100...35 - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench	Wrench
RHU100.0750.3.05	030.6075.T20P	T20PQ	
R/LHU100...	5.17T20P	T20PQ	
LHU100.0750.35			P39L



R = right hand version shown

L = left hand version

C4

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	1.25	1	6.693	2.165	2.559	1.496	.85	$f_1+w/2$	1.614	1.929	A	100048
RHU100.1250.4.10	1.25	1	6.693	2.165	2.559	1.496	.815	$f_1+w/2$	1.614	1.929	A	100048
LHU100.0750.3.04	.75	.75	6.004	1.969	2.362	1.26	.677	$f_1+w/2$	1.299	1.693	A	100048
LHU100.1000.3.06	1	1	6.004	1.969	2.362	1.496	.89	$f_1+w/2$	1.299	1.929	A	100048
LHU100.1250.3.06	1.25	1	6.693	1.969	2.362	1.496	.89	$f_1+w/2$	1.299	1.929	A	100048
LHU100.1250.38	1.25	1	6.693	1.969	2.362	1.496	.85	$f_1+w/2$	1.378	1.929	A	100048

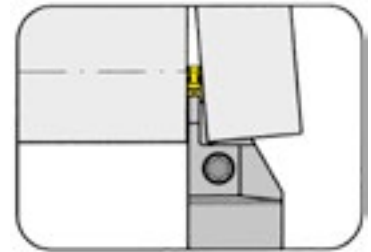
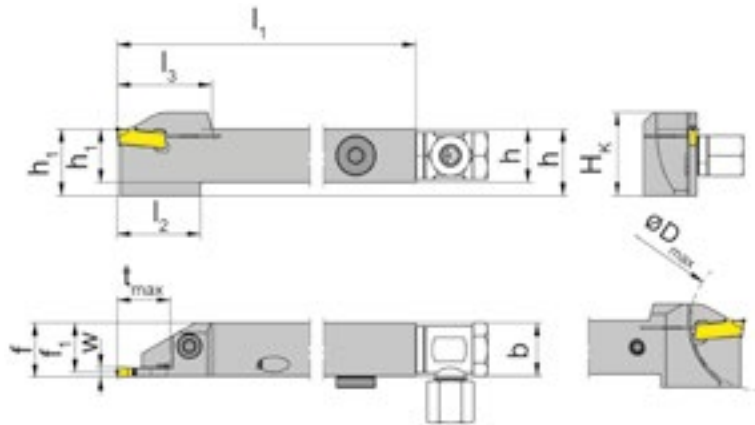
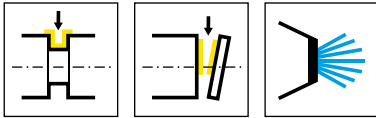
w see inserts

Wrench **P39L** is not combined with blade R/LH100...34 - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
R/LHU100...	030.6075.T20P	T20PQ



R = right hand version shown

L = left hand version

C4

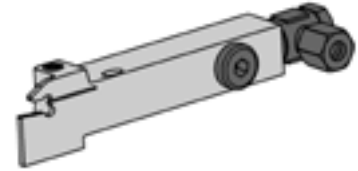
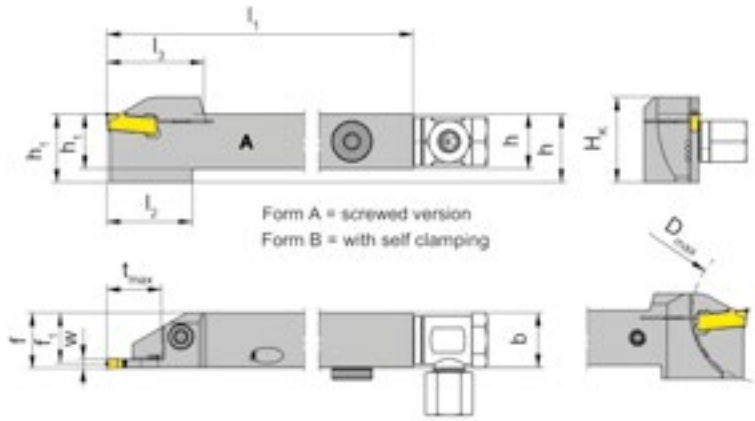
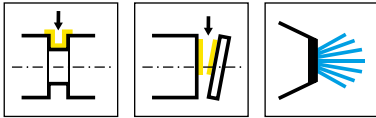
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_K	Form	HWS
RHU100.0500.01.IK	.5	.5	5.118	.827	.906	.63	.47	$f_1+w/2$	.531	1.024	.827	A	100018
RHU100.0500.11.IK	.5	.5	5.118	.945	1.024	.63	.47	$f_1+w/2$	.63	1.654	.827	A	100018
RHU100.0750.11.IK	.75	.75	5.118	-	1.024	.75	.72	$f_1+w/2$	.63	1.654	.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	.75	.75	5.118	-	1.319	.75	.72	$f_1+w/2$	.846	1.654	.947	A	100018
LHU100.0500.01.IK	.5	.5	5.118	.827	.906	.63	.47	$f_1+w/2$	.531	1.024	.827	A	100018
LHU100.0500.11.IK	.5	.5	5.118	.945	1.024	.63	.47	$f_1+w/2$	.63	1.654	.827	A	100018
LHU100.0625.11.IK	.625	.625	5.118	.984	1.122	.787	.595	$f_1+w/2$	.63	1.654	.984	A	100018
LHU100.0750.11.IK	.75	.75	5.118	-	1.024	.75	.72	$f_1+w/2$	.63	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

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug
RHU100.0750.21.IK	4.15T15P	004.00.16	T15PQ	004.00.26
R/LHU100.0625...	4.15T15P	004.00.16	T15PQ	



R = right hand version shown

L = left hand version

C4

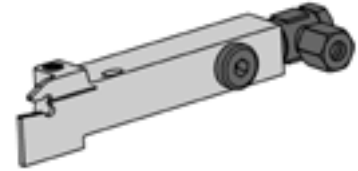
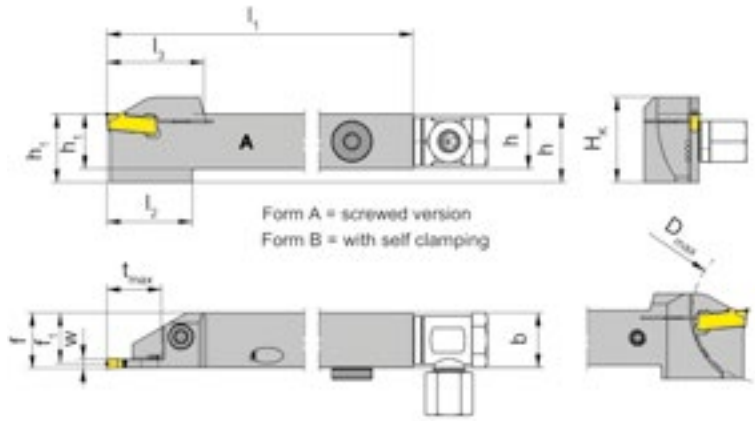
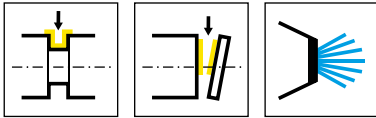
Part number	h	b	l_1	l_2	l_3	h_1	f_1	f	t_{max}	D_{max}	H_k	Form	HWS
RHU100.0500.02.IK	.5	.5	4.921	.827	.906	.63	.463	$f_1+w/2$	.531	1.024	.827	A	100029
RHU100.0625.02.IK	.625	.625	5.118	.768	.906	.787	.588	$f_1+w/2$	.413	1.654	.984	A	100029
RHU100.0500.12.IK	.5	.5	5.118	.984	1.122	.63	.463	$f_1+w/2$	.63	1.654	.827	A	100029
RHU100.0625.12.IK	.625	.625	5.118	.984	1.122	.787	.588	$f_1+w/2$	.63	1.654	.984	A	100029
RHU100.0750.12.IK	.75	.75	5.118	-	1.024	.75	.713	$f_1+w/2$	.63	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	.75	.75	5.118	-	1.319	.75	.713	$f_1+w/2$	.846	1.654	.947	A	100029
RHU100.1000.22.IK	1	1	5.906	-	1.319	1	.963	$f_1+w/2$	.846	1.654	1.197	A	100029
LHU100.0500.02.IK	.5	.5	4.921	.827	.906	.63	.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	.5	.5	5.118	.984	1.122	.63	.463	$f_1+w/2$	.63	1.654	.827	A	100028
LHU100.0625.12.IK	.625	.625	5.118	.984	1.122	.787	.588	$f_1+w/2$	.63	1.654	.984	A	100028
LHU100.0750.12.IK	.75	.75	5.118	-	1.024	.75	.713	$f_1+w/2$	.63	1.654	.947	A	100029
LHU100.1000.22.IK	1	1	5.906	-	1.319	1	.963	$f_1+w/2$	.846	1.654	1.197	A	100029

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug
R/LHU100.0500...	4.15T15P	004.00.61	T15PQ	
R/LHU100.0625...	4.15T15P	004.00.16	T15PQ	004.00.26
R/LHU100.0750.12.IK	4.15T15P	004.00.16	T15PQ	
RHU100.0750.22.IK	5.17T20P	004.00.16	T20PQ	004.00.26
R/LHU100.1000.22	4.15T15P	004.00.16	T15PQ	004.00.26



R = right hand version shown

L = left hand version

C4

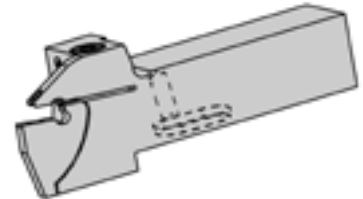
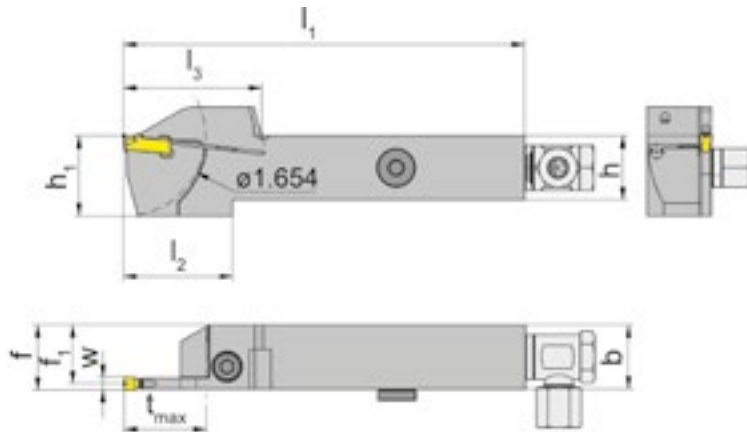
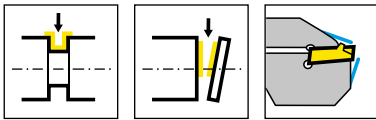
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _k	Form	HWS
RHU100.0500.03.IK	.5	.5	5.118	.846	.925	.63	.455	f ₁ +w/2	.531	1.024	.827	A	100039
RHU100.0625.03.IK	.625	.625	5.118	.768	.906	.787	.58	f ₁ +w/2	.413	1.654	.984	A	100039
RHU100.0625.13.IK	.625	.625	5.118	.984	1.122	.787	.58	f ₁ +w/2	.63	1.654	.984	A	100039
RHU100.0750.13.IK	.75	.75	5.118	-	1.122	.75	.705	f ₁ +w/2	.63	1.654	.947	A	100039
RHU100.1000.13.IK	1	1	6.004	-	1.122	1	.955	f ₁ +w/2	.63	1.654	1.197	A	100039
RHU100.0625.23.IK	.625	.625	5.118	1.181	1.319	.787	.58	f ₁ +w/2	.827	1.654	.984	A	100039
RHU100.0750.23.IK	.75	.75	4.921	-	1.319	.75	.705	f ₁ +w/2	.846	1.654	.947	A	100039
RHU100.1000.23.IK	1	1	5.906	-	1.319	1	.955	f ₁ +w/2	.846	1.654	1.197	A	100039
RHU100.0750.33.IK	.75	.75	5.118	1.378	1.516	.984	.705	f ₁ +w/2	1.299	2.559	1.244	B	100039
RHU100.1000.33.IK	1	1	6.004	-	1.516	1	.955	f ₁ +w/2	1.299	2.559	1.26	B	100039
LHU100.0500.03.IK	.5	.5	5.118	.846	.925	.63	.455	f ₁ +w/2	.531	1.024	.827	A	100038
LHU100.0625.13.IK	.625	.625	5.118	.984	1.122	.787	.58	f ₁ +w/2	.63	1.654	.984	A	100038
LHU100.0750.13.IK	.75	.75	5.118	-	1.122	.75	.705	f ₁ +w/2	.63	1.654	.947	A	100039
LHU100.1000.13.IK	1	1	6.004	-	1.122	1	.955	f ₁ +w/2	.63	1.654	1.197	A	100039
LHU100.0625.23.IK	.625	.625	5.118	1.181	1.319	.787	.58	f ₁ +w/2	.827	1.654	.984	A	100038
LHU100.0750.23.IK	.75	.75	4.921	-	1.319	.75	.705	f ₁ +w/2	.846	1.654	.947	A	100039
LHU100.0750.33.IK	.75	.75	5.118	1.378	1.516	.984	.705	f ₁ +w/2	1.299	2.559	1.244	B	100039
LHU100.1000.33.IK	1	1	6.004	-	1.516	1	.955	f ₁ +w/2	1.299	2.559	1.26	B	100039

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Screw Plug	Wrench
R/LHU100....	5.17T20P	004.00.61	T20PQ		
R/LHU100.0750.23.IK	5.17T20P	004.00.16	T20PQ	004.00.26	
R/LHU100...33.IK		004.00.16			P39L



R = right hand version shown

L = left hand version

C4

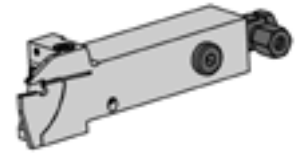
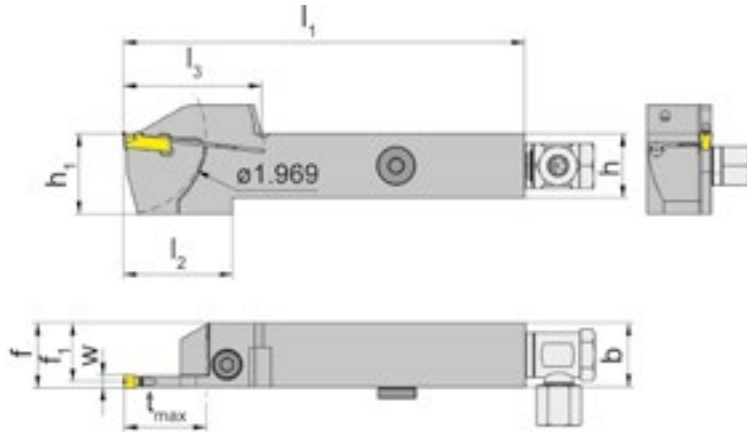
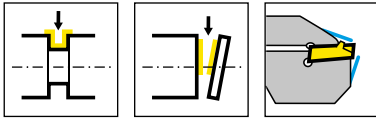
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0625.0.23.IK	.625	.625	5.118	1.378	1.555	.984	.561	f ₁ +w/2	.846	1.654	1.339	A	100039
RHU100.0750.0.23.IK	.75	.75	5.118	1.299	1.535	.984	.697	f ₁ +w/2	.846	1.654	1.339	A	100039
RHU100.1000.0.23.IK	1	1	5.906	1.299	1.555	1.181	.947	f ₁ +w/2	.846	1.654	1.535	A	100039
RHU100.0625.0.24.IK	.625	.625	5.118	1.378	1.555	.984	.56	f ₁ +w/2	.846	1.654	1.339	A	100049
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	.75	.75	5.118	1.299	1.535	.984	.697	f ₁ +w/2	.846	1.654	1.339	A	100038

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LHU100...	004.00.16	6.23T25P	T25PQ	004.00.26
R/LHU100.0750.0.23.IK	004.00.16	6.23T25P	T25PQ	



R = right hand version shown

L = left hand version

C4

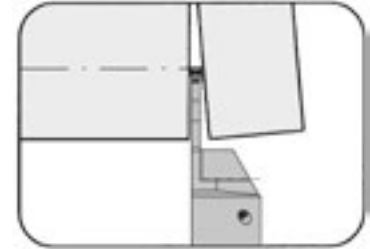
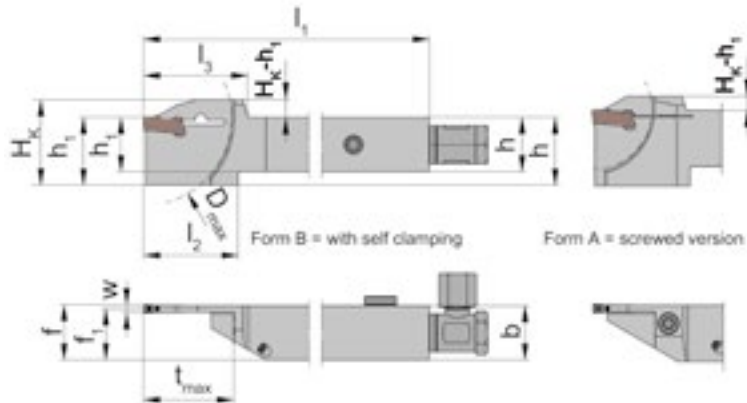
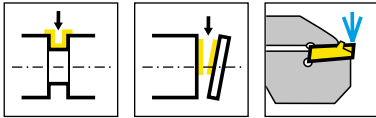
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0750.0.73.IK	.75	.75	5.118	1.457	1.693	.984	.697	f ₁ +w/2	1.004	1.969	1.339	A	100039
RHU100.1000.0.73.IK	1	1	6.004	1.457	1.693	1.181	.947	f ₁ +w/2	1.004	1.969	1.535	A	100039
RHU100.0750.0.74.IK	.75	.75	5.118	1.457	1.693	.984	.683	f ₁ +w/2	1.004	1.969	1.339	A	100049
RHU100.1000.0.74.IK	1	1	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	.75	.75	5.118	1.457	1.693	.984	.697	f ₁ +w/2	1.004	1.969	1.339	A	100038
LHU100.1000.0.73.IK	1	1	6.004	1.457	1.693	1.181	.947	f ₁ +w/2	1.004	1.969	1.535	A	100039
LHU100.0750.0.74.IK	.75	.75	5.118	1.457	1.693	.984	.683	f ₁ +w/2	1.004	1.969	1.339	A	100048
LHU100.1000.0.74.IK	1	1	5.118	1.457	1.693	1.181	.933	f ₁ +w/2	1.004	1.969	1.535	A	100049

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Coolant supply	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LHU100...	004.00.16	6.23T25P	T25PQ	004.00.26
R/LHU100.1000.0.73.IK	004.00.16	6.23T25P	T25PQ	



R = right hand version shown

L = left hand version

C4

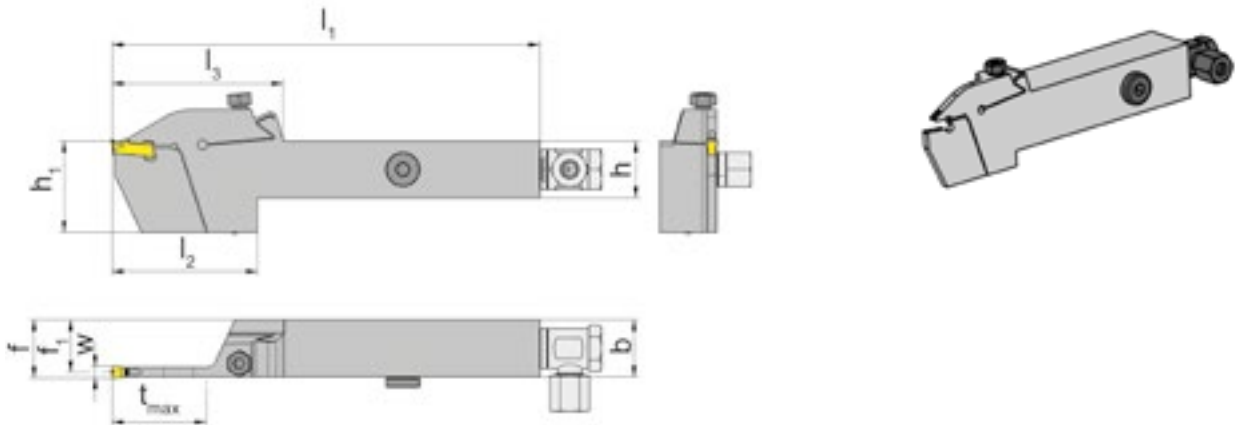
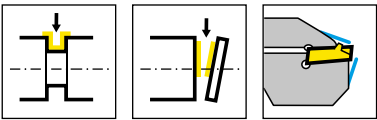
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0750.1.13.IK	.75	.75	5.118	1.181	1.122	1.063	.706	f ₁ +w/2	.63	1.654	1.26	A	100039
RHU100.0625.1.23.IK	.625	.625	5.118	1.378	1.319	1.063	.58	f ₁ +w/2	.846	1.654	1.26	A	100039
RHU100.0750.1.23.IK	.75	.75	5.118	1.378	1.319	1.063	.706	f ₁ +w/2	.846	1.654	1.26	A	100039
RHU100.0750.1.33.IK	.75	.75	5.118	1.378	1.516	1.024	.706	f ₁ +w/2	1.299	2.559	1.283	B	100039
RHU100.1000.1.33.IK	1	1	6.004	1.378	1.516	1.26	.955	f ₁ +w/2	1.299	2.559	1.52	B	100039
RHU100.0750.1.34.IK	.75	.75	5.118	1.378	1.516	1.024	.69	f ₁ +w/2	1.299	2.559	1.283	B	100049
RHU100.1000.1.34.IK	1	1	6.004	1.575	1.831	1.26	.939	f ₁ +w/2	1.614	3.189	1.52	B	100049
LHU100.0750.1.13.IK	.75	.75	5.118	1.181	1.122	1.063	.706	f ₁ +w/2	.63	1.654	1.26	A	100039
LHU100.0625.1.23.IK	.625	.625	5.118	1.378	1.319	1.063	.58	f ₁ +w/2	.846	1.654	1.26	A	100039
LHU100.0750.1.23.IK	.75	.75	5.118	1.378	1.319	1.063	.706	f ₁ +w/2	.846	1.654	1.26	A	100039
LHU100.0750.1.33.IK	.75	.75	5.118	1.378	1.516	1.024	.706	f ₁ +w/2	1.299	2.559	1.283	B	100039
LHU100.1000.1.33.IK	1	1	6.004	1.378	1.516	1.26	.955	f ₁ +w/2	1.299	2.559	1.52	B	100039
LHU100.0750.1.34.IK	.75	.75	5.118	1.378	1.516	1.024	.69	f ₁ +w/2	1.299	2.559	1.283	B	100049
LHU100.1000.1.34.IK	1	1	6.004	1.575	1.831	1.26	.939	f ₁ +w/2	1.614	3.189	1.52	B	100049

w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	Coolant supply	TORX PLUS® Wrench	Wrench
R/LHU100....	5.17T20P	004.00.16	T20PQ	
R/LHU100...1.33/.34.IK		004.00.61		P39L



R = right hand version shown L = left hand version

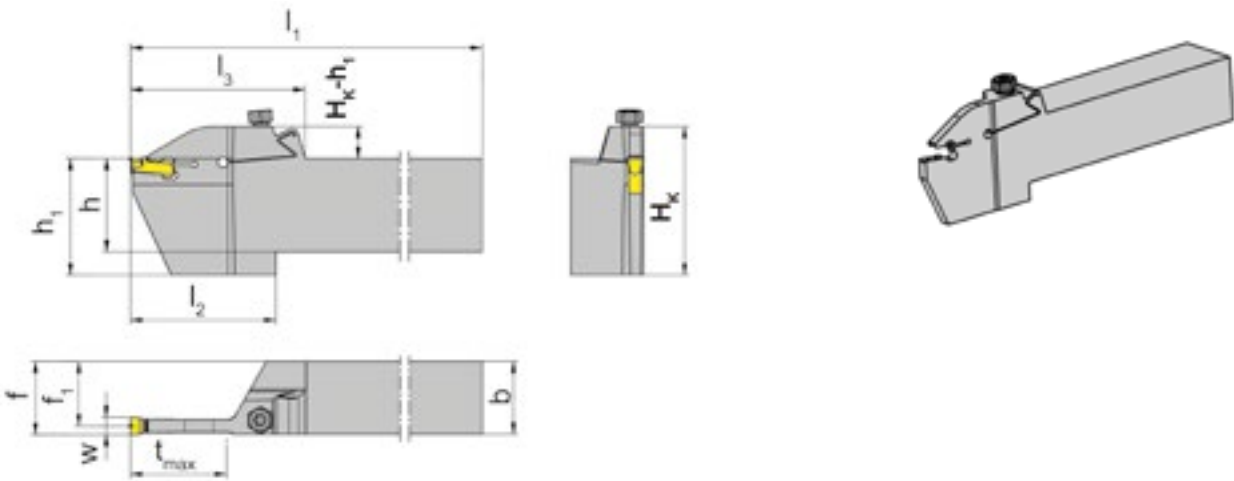
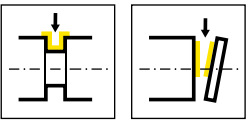
Part number	h	b	l ₁	l ₂	l ₃	h ₁	f ₁	f	t _{max}	D _{max}	H _K	Form	HWS
RHU100.0750.3.0.04.IK	.75	.75	5.906	2.008	2.362	1.693	.685	f ₁ +w/2	1.299	5.906	1.693	A	100049
RHU100.1000.3.0.04.IK	1	1	5.906	1.969	2.362	1.26	.933	f ₁ +w/2	1.299	5.906	1.693	A	100049
LHU100.0750.3.0.04.IK	.75	.75	5.906	2.008	2.362	1.693	.685	f ₁ +w/2	1.299	5.906	1.693	A	100049
LHU100.1000.3.0.04.IK	1	1	5.906	1.969	2.362	1.26	.933	f ₁ +w/2	1.299	5.906	1.693	A	100049

w see inserts

Dimensions in inch

Spare Parts

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



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	1.25	1.25	6.693	2.205	1.85	.955	f ₁ +w/2	1.772	2.165	A	100168

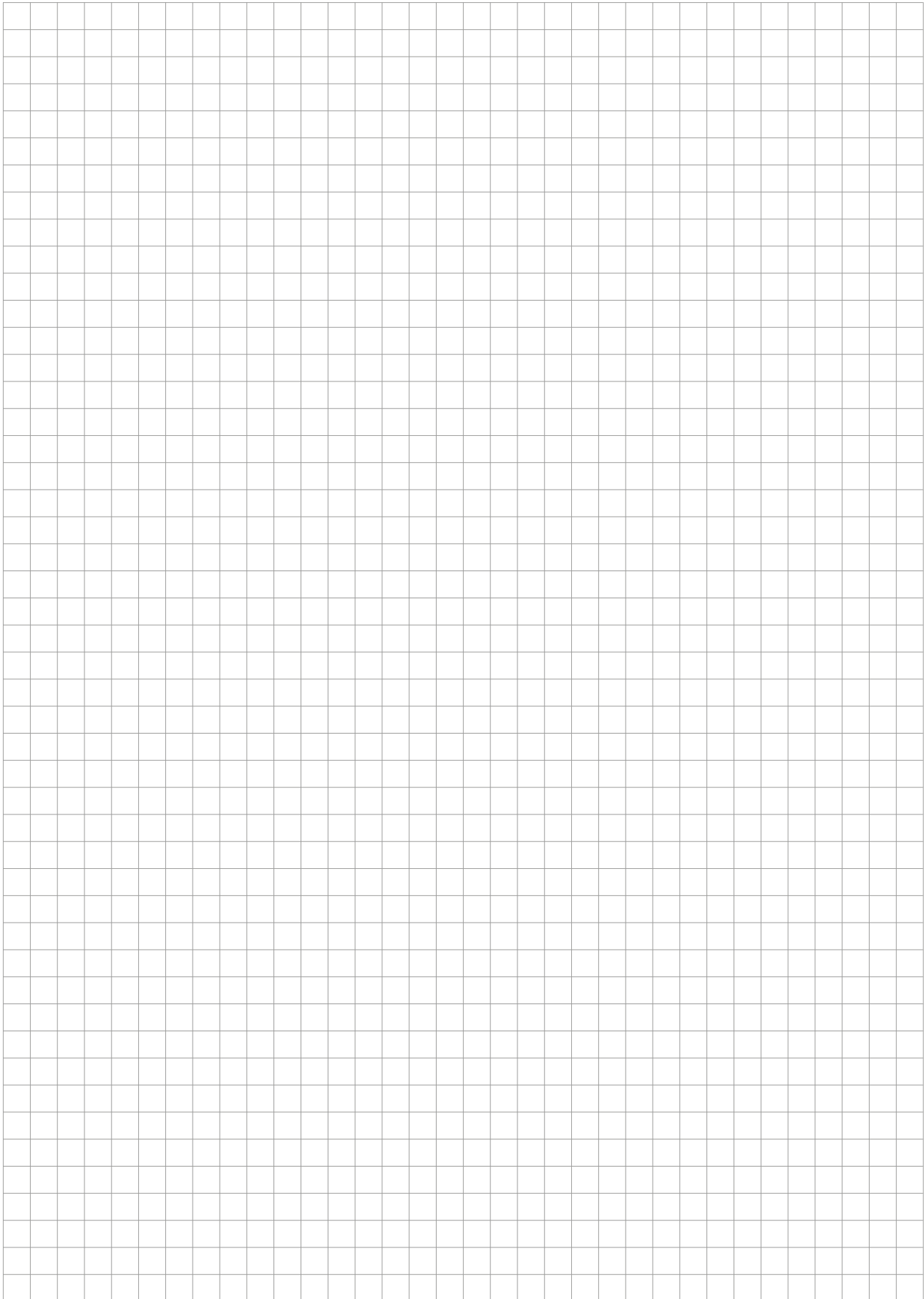
w see inserts

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
RHU100.1250.5.16	030.0625.T25P	T25PQ

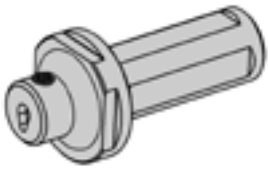
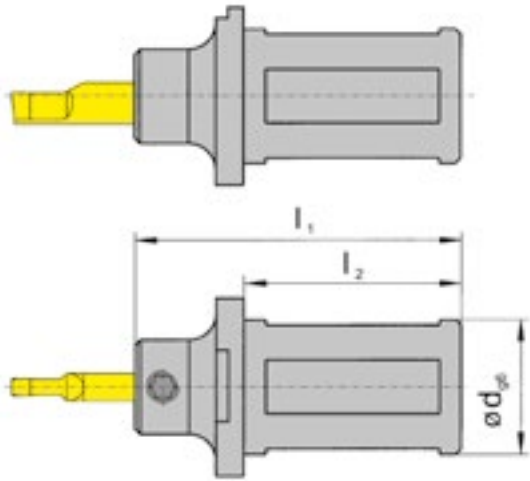
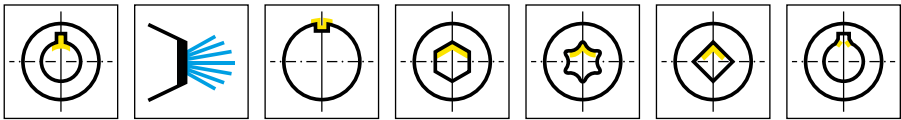
C4



N105,N110,S117



Toolholders and Inserts



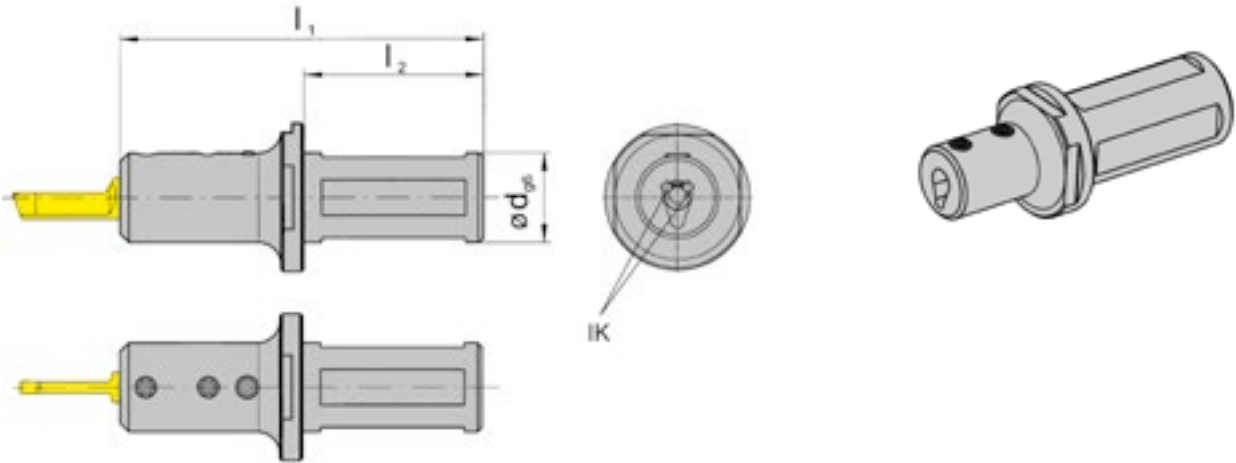
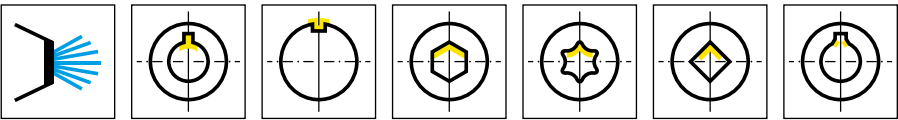
C4

Part number	d	l ₁	l ₂	D _{min}	HWS
SBU105.0750.1.01.IK	.75	2.874	1.969	.236	105125
SBU105.1000.1.01.IK	1	2.874	1.969	.236	105125
SBU105.1250.1.01.IK	1.25	2.874	1.969	.236	105125

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench
SBU105...	6.075T15P	T15PQ

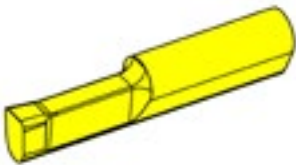
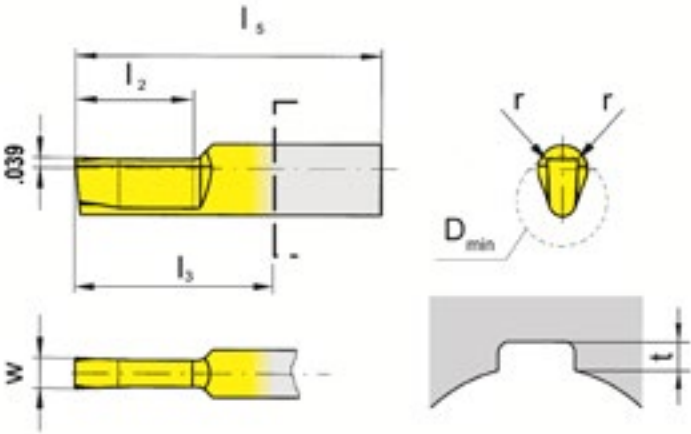
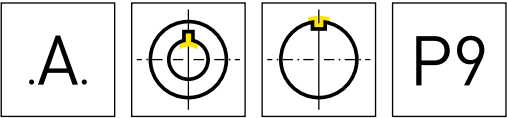


Part number	d	l ₁	l ₂	D _{min}	HWS
SBU110.0750.1.02.IK	.75	3.465	1.969	.354	110260
SBU110.1000.1.02.IK	1	3.465	1.969	.354	110260
SBU110.1250.1.02.IK	1.25	3.465	1.969	.354	110260

Dimensions in inch

Spare Parts

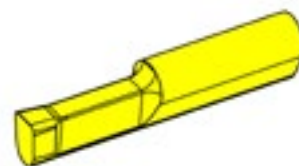
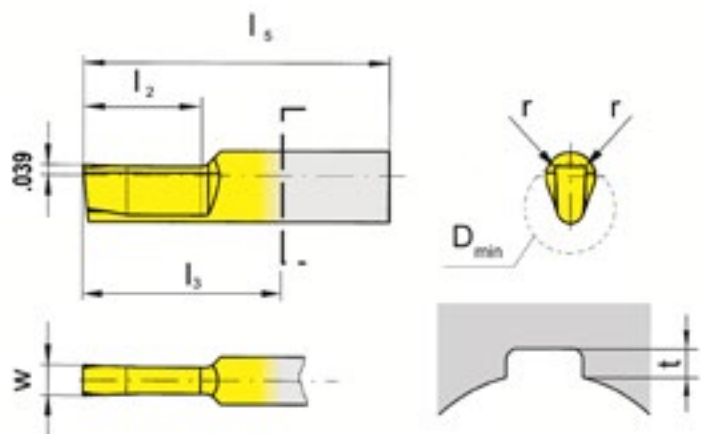
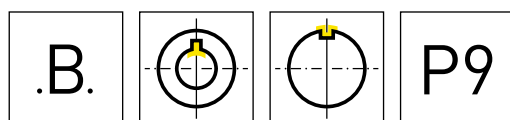
Toolholder	Clamping Screw	TORX PLUS® Wrench
SBU110...	6.075T15P	T15PQ



Carbide grades

▲ on stock Δ 4 weeks

Part number	w	l _s	l ₂	l ₃	r	D _{min}	HIS	AN25	
NU105.0625.4.01.A2	.064	1.181	.472	.709	.004	.236	105125	▲	●
NU105.0937.4.01.A2	.095	1.181	.472	.709	.004	.236	105125	▲	○
NU105.1250.4.01.A2	.126	1.378	.591	.906	.004	.256	105125	▲	-
NU105.1562.4.01.A2	.157	1.378	.591	.906	.004	.256	105125	▲	-
NU110.1562.8.04.A2	.157	2.362	.984	1.339	.008	.354	105125	Δ	-
NU110.1875.8.04.A2	.189	2.362	.984	1.339	.008	.354	105125	▲	-
NU110.1562.8.07.A2	.157	2.953	1.575	1.929	.008	.354	105125	▲	-
NU110.1875.8.07.A2	.189	2.953	1.575	1.929	.008	.354	105125	▲	-
Recommended for: Broaching units									P ●
Dimensions in inch									M ○
									K -
									N -
									S -
									H -



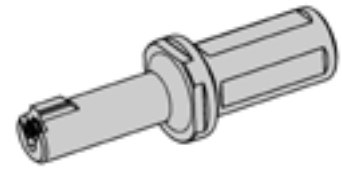
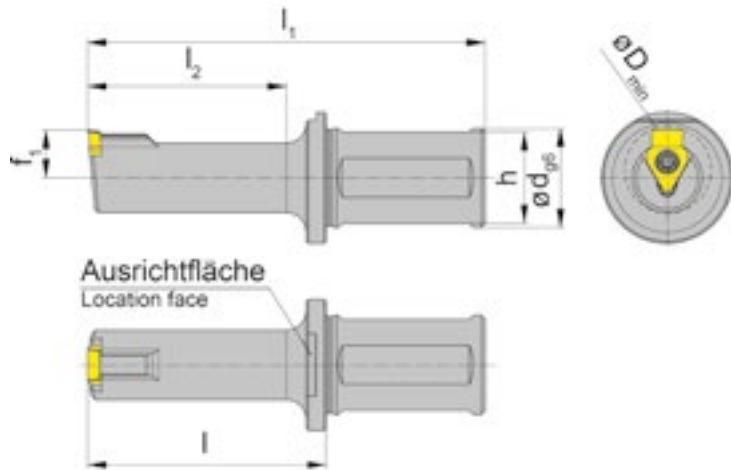
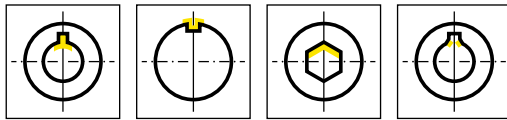
Carbide grades

▲ on stock

Δ 4 weeks

C4

Part number	w	l_s	l_2	l_3	r	D_{min}	HIS	AN25
NU105.0625.4.01.B1	.064	1.181	.472	.709	.004	.236	105125	▲
NU105.0937.4.01.B1	.095	1.181	.472	.709	.004	.236	105125	▲
NU105.1250.4.01.B1	.126	1.378	.591	.906	.004	.256	105125	▲
NU105.1562.4.01.B1	.157	1.378	.591	.906	.004	.256	105125	▲
NU110.1562.8.04.B1	.157	2.362	.984	1.339	.008	.354	105125	▲
NU110.1562.8.07.B1	.157	2.953	1.575	1.929	.008	.354	105125	Δ
NU110.1875.8.04.B1	.189	2.362	.984	1.339	.008	.354	105125	▲
NU110.1875.8.07.B1	.189	2.953	1.575	1.929	.008	.354	105125	▲
Recommended for: conventional broaching								P ●
Dimensions in inch								M o
								K -
								N -
								S -
								H -



C4

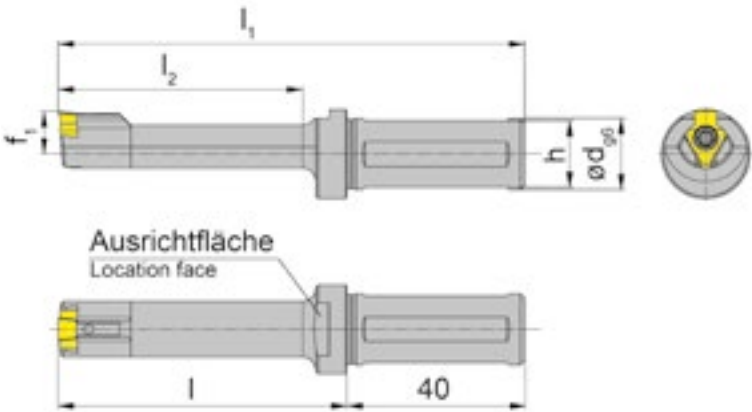
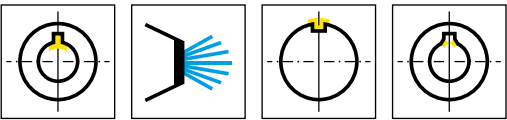
Part number	d	h	l	l ₁	l ₂	D _{min}	f ₁	Form	HWS
SHU117.1410.1.3.08	1	.921	1.26	3.228	.787	.551	.378	G	117G805
SHU117.1412.1.3.08	1.25	1.171	1.26	2.835	.787	.551	.378	G	117G805
SHU117.1410.1.08	1	.921	1.654	3.622	1.181	.551	.378	F	117F805
SHU117.1410.2.08	1	.921	2.047	4.016	1.575	.551	.378	F	117F805
SHU117.1412.1.08	1.25	1.171	1.654	3.622	1.181	.551	.378	F	117F805
SHU117.1412.2.08	1.25	1.171	2.047	4.016	1.575	.551	.378	F	117F805
SHU117.0610.1.10	1	.921	2.008	3.976	1.575	.625	.425	A1	117A005
SHU117.0612.1.10	1.25	1.171	2.008	3.976	1.575	.625	.425	A1	117A005
SHU117.0100.1.10	1	.921	2.087	4.055	1.575	.669	.374	A	117A005
SHU117.0100.2.10	1	.921	2.677	4.646	2.165	.669	.374	A	117A005
SHU117.0125.1.10	1.25	1.171	2.087	4.055	1.575	.669	.374	A	117A005
SHU117.0910.1.10	1	.921	2.48	4.449	1.969	.866	.472	A	117A005
SHU117.0910.2.10	1	.921	3.268	5.236	2.756	.866	.472	A	117A005
SHU117.0912.1.10	1.25	1.171	2.48	4.449	1.969	.866	.472	A	117A005
SHU117.0912.2.10	1.25	1.171	3.268	5.236	2.756	.866	.472	A	117A005
SHU117.1000.1.10	1	.921	2.48	4.449	1.969	.866	.472	B	117B005
SHU117.1000.2.10	1	.921	3.268	5.236	2.756	.866	.472	B	117B005
SHU117.1250.1.10	1.25	1.171	2.48	4.449	1.969	.866	.472	B	117B005
SHU117.1250.2.10	1.25	1.171	3.268	5.236	2.756	.866	.472	B	117B005
SHU117.0125.1.16	1.25	1.171	2.48	4.843	1.969	1.181	.659	C	117C605
SHU117.0125.2.16	1.25	1.171	3.465	5.827	2.953	1.181	.659	C	117C605
SHU117.0125.3.16	1.25	1.171	4.449	6.811	3.937	1.181	.659	C	117C605
SHU117.1250.1.16	1.25	1.171	2.48	4.843	1.969	1.496	.866	D	117D605
SHU117.1250.2.16	1.25	1.171	3.465	5.827	2.953	1.496	.866	D	117D605
SHU117.1250.3.16	1.25	1.171	4.449	6.811	3.937	1.496	.866	D	117D605

Coolant supply G1/8 is not included - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
SHU117...	4.09T15P	T15PQ
SHU117... 08	030.3509.T15P	T15PQ
SHU117...16	5.12T20P	T20PQ



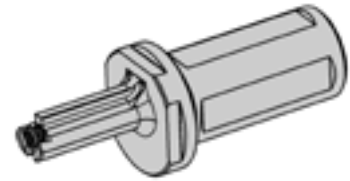
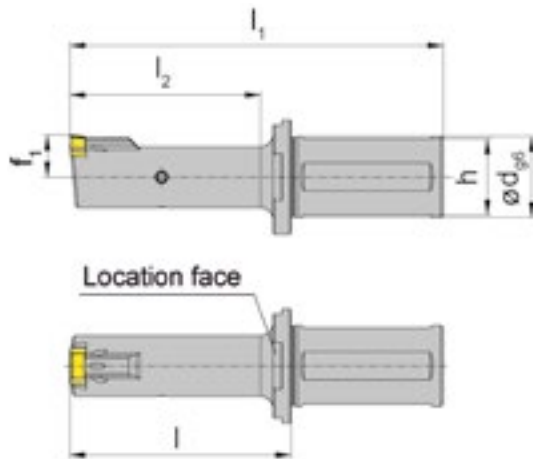
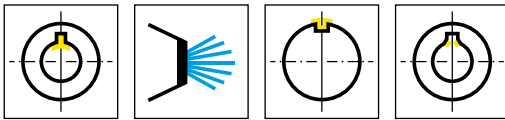
Part number	d	h	l	l ₁	l ₂	D _{min}	f ₁	Form	HWS
SHMU117.1462.3.08	.625	.586	2.559	4.134	2.165	.551	.378	F	117F805

Coolant supply G1/8 is not included - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
SHMU117.1462.3.08	030.350P.0709	T15PQ



C4

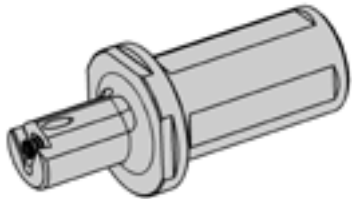
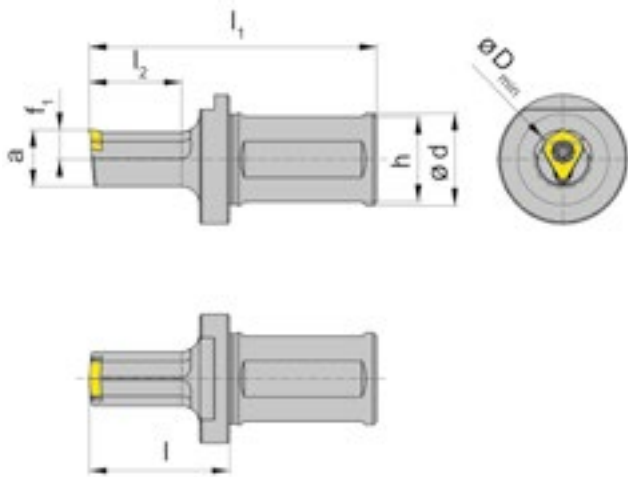
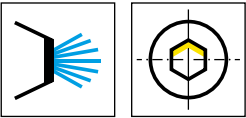
Part number	d	h	l	l ₁	l ₂	D _{min}	f ₁	Form	HWS
SHU117.0100.1.10.IK	1	.921	2.087	4.055	1.575	.669	.374	A	117A005
SHU117.0100.2.10.IK	1	.921	2.677	4.646	2.165	.669	.374	A	
SHU117.0125.1.16.IK	1.25	1.171	2.48	4.843	1.969	1.181	.659	C	117C605
SHU117.0125.2.16.IK	1.25	1.171	3.465	5.827	2.953	1.181	.659	C	
SHU117.0125.3.16.IK	1.25	1.171	4.449	6.811	3.937	1.181	.659	C	117C605
SHU117.0610.1.10.IK	1	.921	2.008	3.976	1.575	.625	.425	A1	117A005
SHU117.0910.1.10.IK	1	.921	2.48	4.449	1.969	.866	.472	A	117A005
SHU117.0910.2.10.IK	1	.921	3.268	5.236	2.756	.866	.472	A	117A005
SHU117.1000.1.10.IK	1	.921	2.48	4.449	1.969	.866	.472	B	117B005
SHU117.1000.2.10.IK	1	.921	3.268	5.236	2.756	.866	.472	B	117B005
SHU117.1250.1.16.IK	1.25	1.171	2.48	4.843	1.969	1.496	.866	D	117D605
SHU117.1250.2.16.IK	1.25	1.171	3.465	5.827	2.953	1.496	.866	D	117D605
SHU117.1250.3.16.IK	1.25	1.171	4.449	6.811	3.937	1.496	.866	D	117D605
SHU117.1410.1.08.IK	1	.921	1.654	3.622	1.181	.551	.378	F	117F805
SHU117.1410.1.3.08.IK	1	.921	1.26	3.228	.787	.551	.378	G	117G805
SHU117.1410.2.08.IK	1	.921	2.047	4.016	1.575	.551	.378	F	117F805

Coolant supply G1/8 is not included - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
SHU117...	4.09T15P	T15PQ
SHU117...	5.12T20P	T20PQ
SHU117.1410...	030.3509.T15P	T15PQ



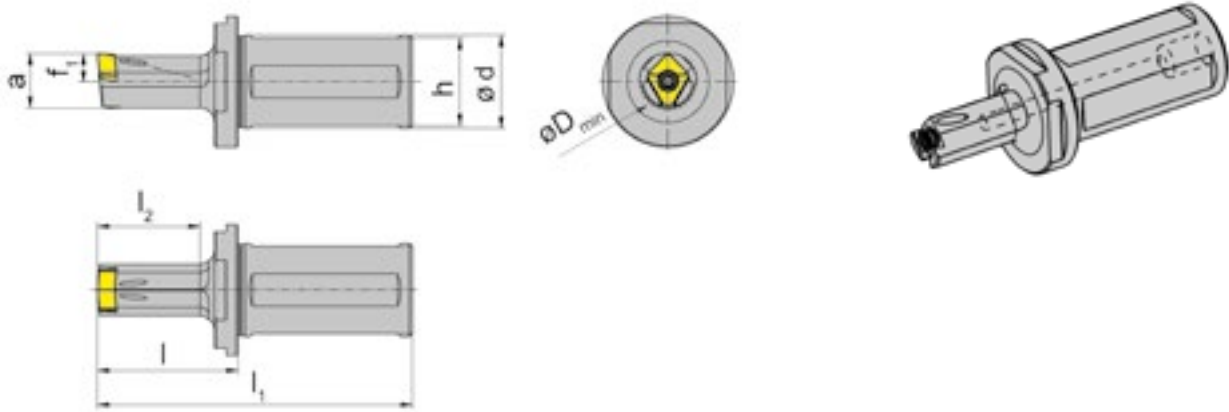
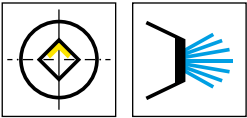
Part number	d	h	l	l ₁	l ₂	D _{min}	f ₁	a	HWS
SHU117.1410.30.1.08.IK	1	.921	1.299	3.268	.787	.559	.266	.512	1170805
SHU117.1610.30.1.10.IK	1	.921	1.496	3.465	.984	.638	.305	.591	1171005
SHU117.2412.30.1.12.IK	1.25	1.171	1.693	4.055	1.181	.957	.453	.866	1171205
SHU117.3012.30.1.16.IK	1.25	1.171	2.087	4.449	1.575	1.193	.571	1.102	1171605

Coolant supply G1/8 is not included - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
SHU117...	4.09T15P	T15P
SHU117.1410.30.1.08.IK	030.3509.T15P	T15PQ
SHU117.3012.30.1.16.IK	5.12T20P	T20PQ



C4

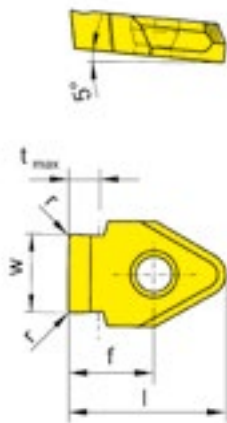
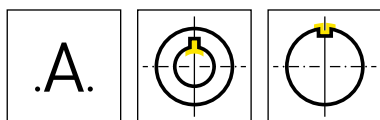
Part number	d	h	l	l ₁	l ₂	D _{min}	f ₁	a	HWS
SHU117.1310.SQ.1.08.IK	1	.921	1.496	3.465	.984	.531	.256	.504	1170805
SHU117.1510.SQ.1.10.IK	1	.921	1.496	3.465	.984	.61	.295	.577	1171005
SHU117.1712.SQ.1.12.IK	1.25	1.171	1.693	4.055	1.181	.689	.335	.65	1171205
SHU117.1912.SQ.1.16.IK	1.25	1.171	1.89	4.252	1.378	.768	.382	.736	1171605

Coolant supply G1/8 is not included - separate order required!

Dimensions in inch

Spare Parts

Toolholder	Clamping Screw	TORX PLUS® Wrench
SHU117...	4.09T15P	T15PQ
SHU117.1310.SQ.1.08.IK	030.3509.T15P	T15PQ
SHU117.1912.SQ.1.16.IK	5.12T20P	T20PQ



Carbide grades

▲ on stock

△ 4 weeks

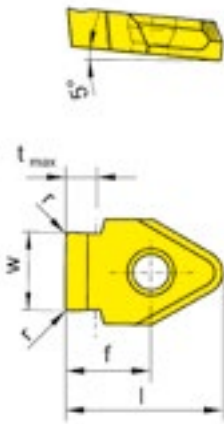
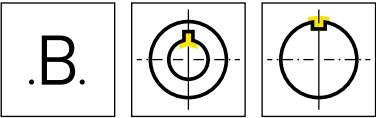
C4

Part number	w	l	r	D _{min}	t _{max}	f	Form	HIS	AN/5
SU117.1250.4.08.A1	.126	.512	.004	.551	.071	.236	G	117G805	▲
SU117.1562.4.08.A1	.157	.512	.004	.551	.087	.236	F	117F805	▲
SU117.1875.8.08.A1	.189	.512	.008	.551	.106	.236	F	117F805	▲
SU117.2500.8.10.A1	.251	.571	.008	.669	.134	.256	A	117A005	▲
SU117.3125.8.10.A1	.314	.63	.008	.866	.161	.315	B	117B005	▲
SU117.1250.4.10.A1	.126	.551	.004	.625	.071	.236	A1	117A005	▲
SU117.1562.4.10.A1	.157	.551	.004	.625	.087	.236	A1	117A005	▲
SU117.1875.8.10.A1	.189	.571	.008	.669	.106	.256	A	117A005	▲
SU117.2812.8.10.A1	.283	.63	.008	.866	.161	.315	B	117B005	▲
SU117.3750.1.14.A1	.377	.815	.012	1.181	.197	.441	C	117C605	▲
SU117.4375.1.14.A1	.439	.815	.012	1.496	.224	.441	D	117D605	▲
SU117.5000.1.14.A1	.502	.815	.012	1.496	.26	.441	D	117D605	▲
SU117.5000.2.14.A1	.502	.815	.02	1.496	.335	.441	D	117D605	▲

Recommended for: Broaching units

Dimensions in inch

P	•
M	o
K	•
N	•
S	o
H	-



Carbide grades

▲ on stock Δ 4 weeks

Part number	w	l	r	D _{min}	t _{max}	f	Form	HIS	AN45
SU117.1250.4.08.B1	.126	.512	.004	.551	.071	.236	G	117G805	▲
SU117.1562.4.08.B1	.157	.512	.004	.551	.087	.236	F	117F805	▲
SU117.1875.8.08.B1	.189	.512	.008	.551	.106	.236	F	117F805	▲
SU117.1250.4.10.B1	.126	.551	.004	.625	.071	.236	A1	117A005	▲
SU117.1562.4.10.B1	.157	.551	.004	.625	.087	.236	A1	117A005	▲
SU117.1875.8.10.B1	.189	.571	.008	.669	.106	.256	A	117A005	▲
SU117.2500.8.10.B1	.251	.571	.008	.669	.134	.256	A	117A005	▲
SU117.2812.8.10.B1	.283	.63	.008	.866	.161	.315	B	117B005	▲
SU117.3125.8.10.B1	.314	.63	.008	.866	.161	.315	B	117B005	▲
SU117.3750.1.14.B1	.377	.815	.012	1.181	.197	.441	C	117C605	▲
SU117.4375.1.14.B1	.439	.815	.012	1.496	.224	.441	D	117D605	▲
SU117.5000.1.14.B1	.502	.815	.012	1.496	.26	.441	D	117D605	▲
SU117.5000.2.14.B1	.502	.815	.02	1.496	.335	.441	D	117D605	▲

Recommended for: Broaching units

Dimensions in inch

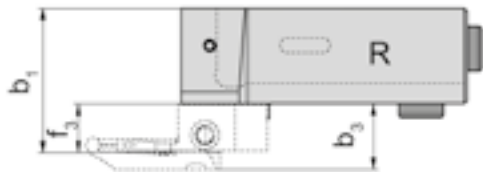
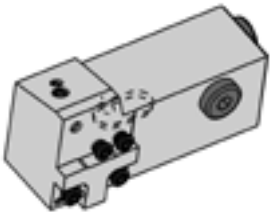
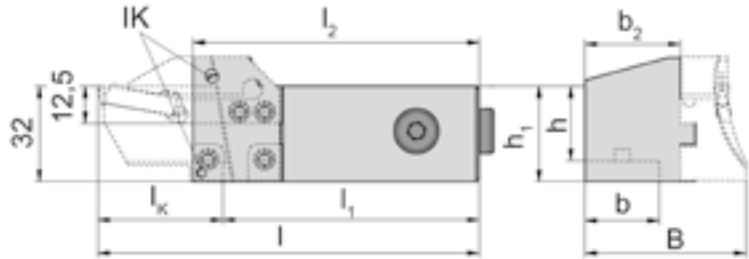
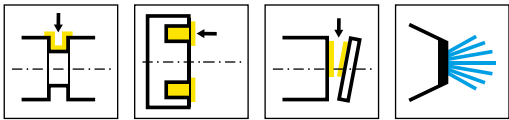
P	•
M	o
K	•
N	•
S	o
H	-

220/842



C4

Basic Toolholder



R = right hand version shown L = left hand version

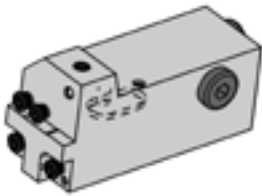
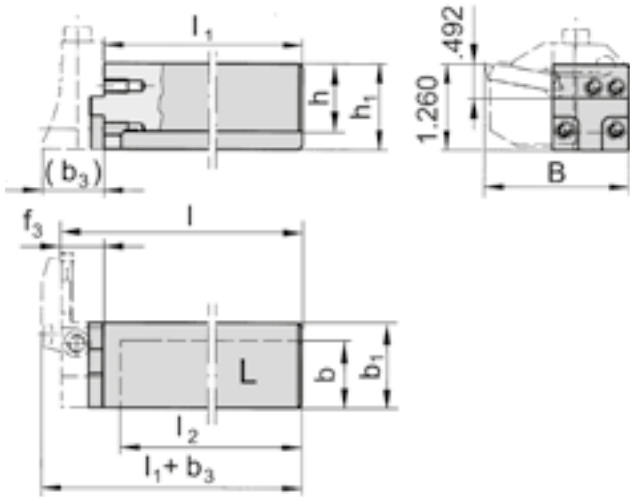
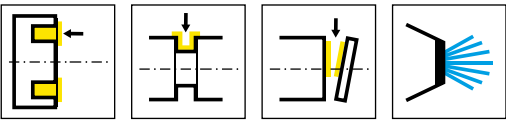
Part number	h	h ₁	l ₁	b	b ₁	b ₂	l ₂	l	B	HWS
RU220.0750.2.K1.IK	.75	1.26	l ₂ -10	.75	b ₂ +f ₃	1.026	4.5	l ₁ +l _K	b ₂ +b ₃	220001
RU220.1000.2.K1.IK	1	1.26	l ₂ -10	1	b ₂ +f ₃	1.25	6	l ₁ +l _K	b ₂ +b ₃	220001
RU220.1250.2.K1.IK	1.25	1.26	l ₂ -10	1.25	b ₂ +f ₃	1.25	6	l ₁ +l _K	b ₂ +b ₃	220001
LU220.0750.2.K1.IK	.75	1.26	l ₂ -10	.75	b ₂ +f ₃	1.026	4.5	l ₁ +l _K	b ₂ +b ₃	220002
LU220.1000.2.K1.IK	1	1.26	l ₂ -10	1	b ₂ +f ₃	1.25	6	l ₁ +l _K	b ₂ +b ₃	220002
LU220.1250.2.K1.IK	1.25	1.26	l ₂ -10	1.25	b ₂ +f ₃	1.25	6	l ₁ +l _K	b ₂ +b ₃	220002

IK, b3 and f3 see cassettes

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LU220...	5.12T20P	T20PQ	004.00.26



L = left hand version shown

R = right hand version

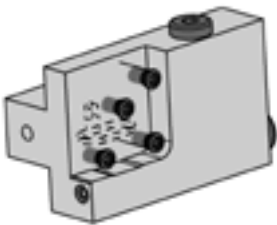
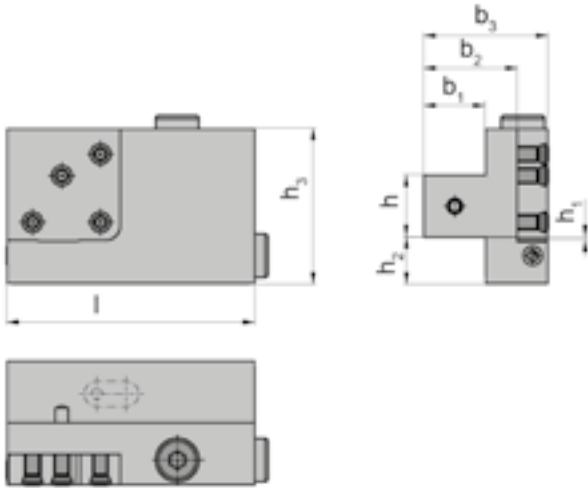
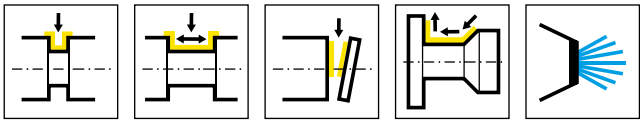
Part number	h	h ₁	b	HWS
RU220.0750.2.K2.IK	.75	1.25	.75	220001
RU220.1000.2.K2.IK	1	1.25	1	220001
RU220.1250.2.K2.IK	1.25	1.25	1.25	220002
LU220.0750.2.K2.IK	.75	1.25	.75	220001
LU220.1000.2.K2.IK	1	1.25	1	220001
LU220.1250.2.K2.IK	1.25	1.25	1.25	220001

IK, b3 and f3 see cassettes

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LU220...	5.12T20P	T20PQ	004.00.26



R = right hand version shown

L = left hand version

Part number	h	b ₁	l	h ₃	b ₃	b ₂	h ₂	HWS
RU842.0625.K1.IK	.625	.625	2.559	1.969	1.57	1.184	.753	842001 • 842002
RU842.0750.K1.IK	.75	.75	3.15	1.969	1.695	1.309	.628	842001 • 842002
RU842.1000.K1.IK	1	1	3.74	1.969	1.945	1.559	.378	842001 • 842002
LU842.0625.K1.IK	.625	.625	2.559	1.969	1.57	1.184	.753	842001 • 842002
LU842.0750.K1.IK	.75	.75	3.15	1.969	1.695	1.309	.628	842001 • 842002
LU842.1000.K1.IK	1	1	3.74	1.969	1.945	1.559	.378	842001 • 842002

Dimensions in inch

Spare Parts

Basic toolholder	Clamping Screw	TORX PLUS® Wrench	Screw Plug
R/LU842...	5.18T20P	T20PQ	004.00.26

- All dimensions are in inches unless otherwise noted.
- Further dimensions and versions are available on request.
- For torque specification of the screw, please see "Technical Instructions".
- All toolholders of the systems "Mini" with damaged seating can be repaired by HORN.

- Delivery times

▲ on stock

Δ 4 weeks

- Use for material groups

● recommended

○ alternative recommended

- not suitable

The HORN connection interface code - what is it needed for?

The connection interface code ensures that you will always find the appropriate tools and is shown on toolholders and inserts. If the codes match, the insert can be used in the corresponding toolholder.

This also applies to our modular holder system, where the connection code indicates the interface between the holder and the cassette.

HORN- connection interface codes and possible combinations:

HIS = Insert seat

HWS = Interface workpiece side

HMS = Interface machine side

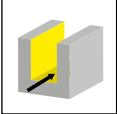
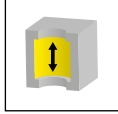
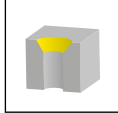
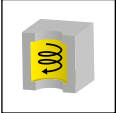
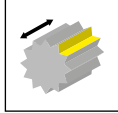
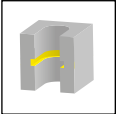
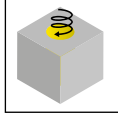
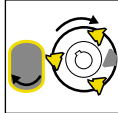
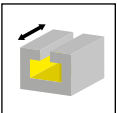
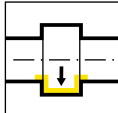
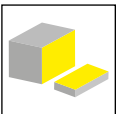
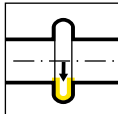
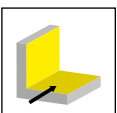
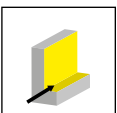
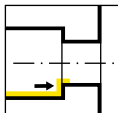
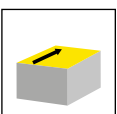
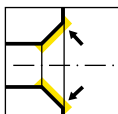
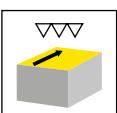
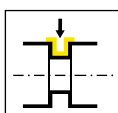
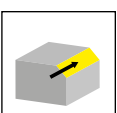
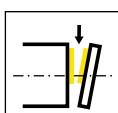
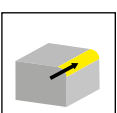
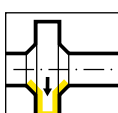
HIS	↔	HWS
HMS	↔	HWS

Example Insert

Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.1828.1.6	.0079	.1102	.2244	.1969	.3937	1.1024	.0157	.236	109140	Δ

Example Toolholder

Bestellnummer Part number	d	l_1	h	l_4	l_2	d_2	HWS
B109.0012.01	.4724	2.9528	.3937	1.9685	.6299	.7874	109140

	Groove milling		Bore milling
	Full radius groove milling		Chamfer milling
	Circular groove		Gear milling
	Internal groove milling		Helical interpolation
	Circlip groove		Polygon milling
	T-Slots DIN650		Internal grooving
	Slot milling		Internal grooving full radius
	Corner milling		Internal boring and grooving chamfer
	Trimming		Internal back turning
	Face milling		Internal chamfering
	Finishing		External grooving
	Chamfering		Parting off
	Radius milling		Inside grooving with chamfer

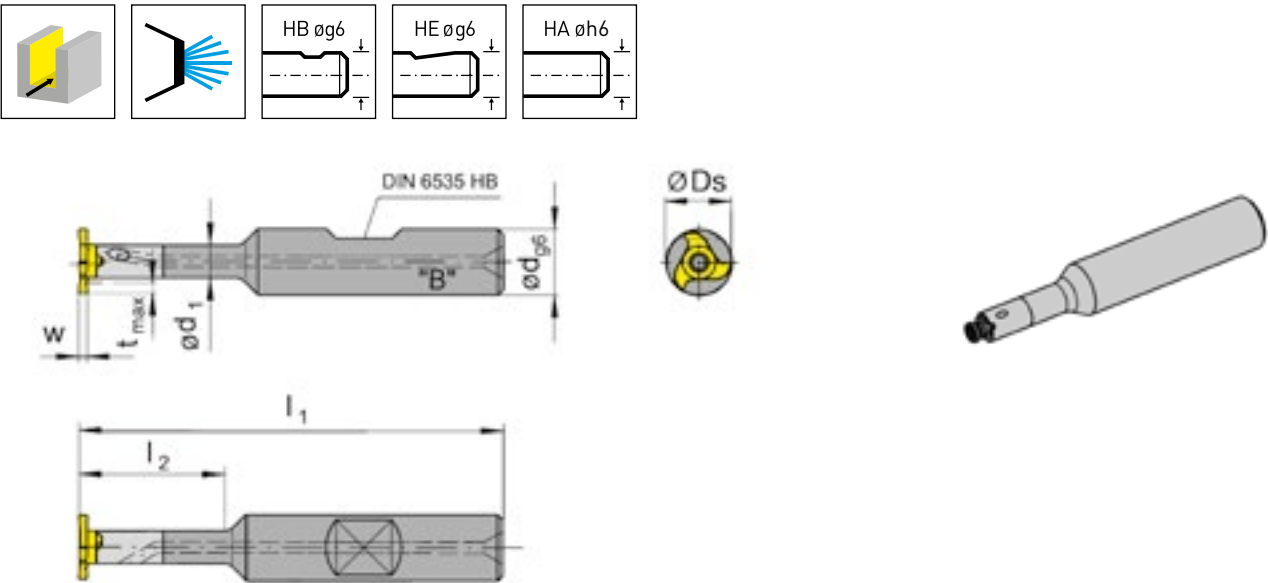
	Internal coolant		Shank form
	Thread milling internal		Numbers of teeth
	Partial profile thread		Geometry
	Full profile thread		Geometry .40 for aluminium
	Internal thread		Geometry
	Whitworth thread		Geometry
	Trapezoidal thread		
	Whitworth pipe thread		
	National pipe thread		
	Approach angle 45°		
	Metric ISO thread Approach angle 60° (Chapter Tangential Milling)		
	Unified thread		

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D1

Milling shank with exchangeable insert



Picture = right hand cutting version

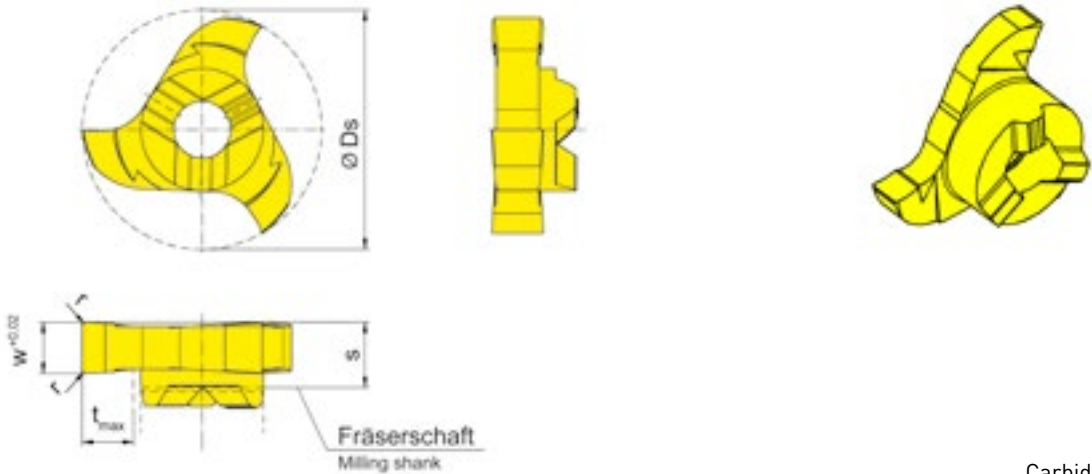
Part number	d	l ₂	d ₁	Form	HWS
MU306.0500.01B	.5	.827	.236	B	306060R • 306060L
MU306.0500.02B	.5	1.181	.236	B	306060R • 306060L
MU306.0500.03B	.5	1.654	.236	B	306060R • 306060L
MU306.0625.01B	.625	.984	.287	B	306060R • 306060L

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU306...	2.6.5T8EP	T8PL

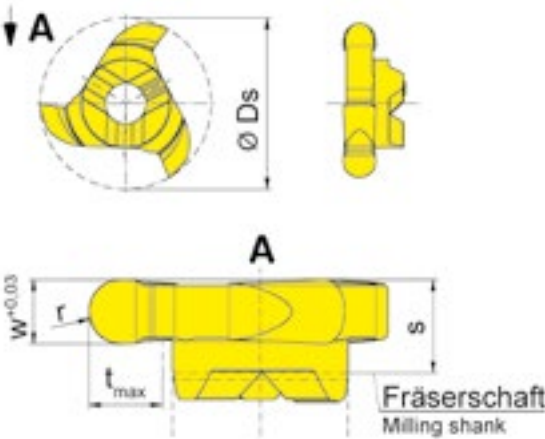


Picture = right hand cutting version

Carbide grades

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS	MG12	TF45	TN35
U306.0046.00	.461	.046	.126	-	.098	3	306060R	▲	▲	▲
U306.0056.00	.461	.056	.126	-	.098	3	306060R			▲
U306.0062.00	.461	.062	.126	-	.098	3	306060R			▲
U306.0078.00	.461	.078	.126	-	.098	3	306060R			▲
U306.0094.00	.461	.094	.126	-	.098	3	306060R		Δ	▲
U306.0046.08	.461	.046	.126	.008	.098	3	306060R			▲
U306.0062.08	.461	.062	.126	.008	.098	3	306060R		▲	▲
U306.0078.08	.461	.078	.126	.008	.098	3	306060R		▲	▲
U306.0094.08	.461	.094	.126	.008	.098	3	306060R	▲	▲	▲
Dimensions in inch								P	o	•
								M	-	•
								K	-	•
								N	-	•
								S	-	•
								H	-	-



Picture = right hand cutting version

Carbide grades

▲ on stock Δ 4 weeks

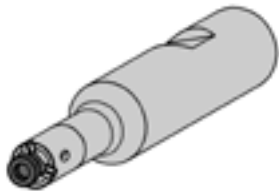
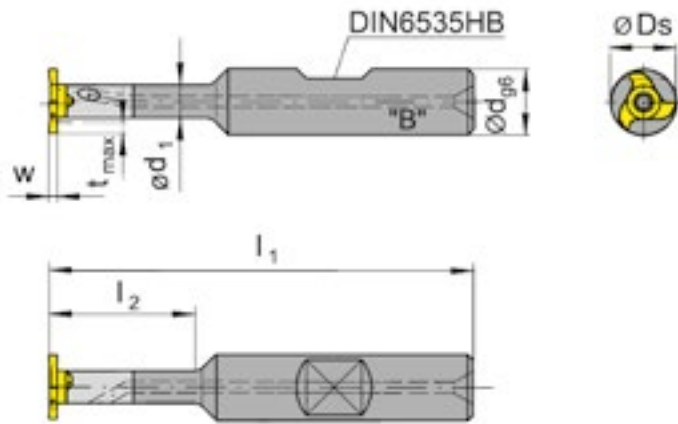
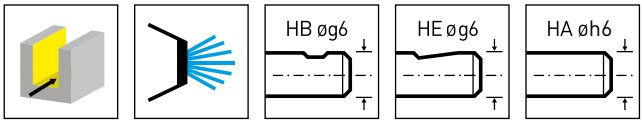
Part number	Ds	w	s	r	t _{max}	Z	HIS		TF45	TN35	
U306.0031.62	.461	.062	.126	.031	.098	3	306060R		▲	▲	
U306.0047.94	.461	.094	.126	.047	.098	3	306060R		▲	▲	
Dimensions in inch									P	●	●
									M	●	●
									K	●	●
									N	●	●
									S	●	●
									H	-	-

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D1

Toolholder and Inserts



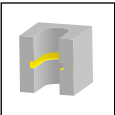
Part number	d	l ₁	l ₂	d ₁	HWS
MU308.0500.01B	.5	3.74	1.142	.315	308080R • 308080L
MU308.0500.02B	.5	4.331	1.654	.315	308080R • 308080L
MU308.0500.03B	.5	4.724	2.205	.315	308080R • 308080L
MU308.0625.01B	.625	4.331	1.299	.374	308080R • 308080L

w, Ds, tmax see inserts

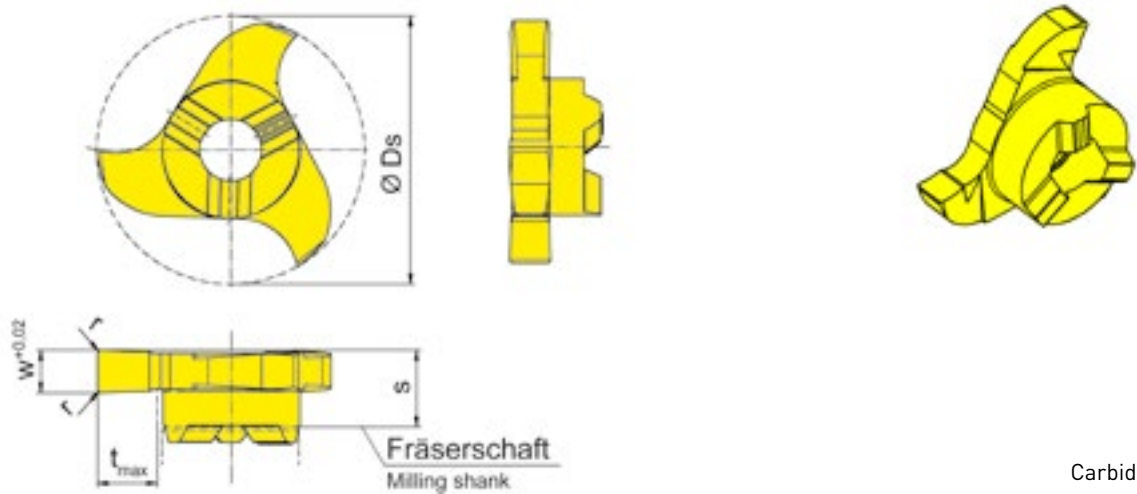
Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU308...	3.5.12T10EP	T10PL



z3

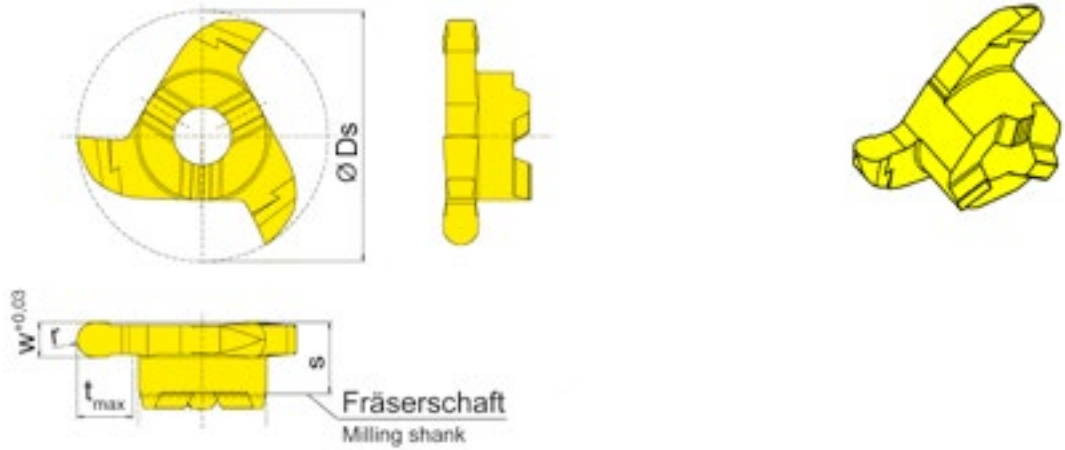


Picture = right hand cutting version

Carbide grades

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS		TF45	TN35
U308.0046.00	.618	.046	.177	.008	.138	3	308080R			▲
U308.0062.00	.618	.062	.177	.008	.138	3	308080R			▲
U308.0046.08	.618	.046	.177	.008	.138	3	308080R		▲	▲
U308.0062.08	.618	.062	.177	.008	.138	3	308080R		Δ	▲
U308.0094.08	.618	.094	.177	.008	.138	3	308080R		Δ	▲
U308.0125.08	.618	.125	.177	.008	.138	3	308080R		▲	▲
Inserts for widths of groove tmax down to 0.5 mm can be delivered with reduced depth upon request.								P	●	●
Dimensions in inch								M	●	●
								K	●	●
								N	●	●
								S	●	●
								H	-	-



Picture = right hand cutting version

Carbide grades

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS		TI25	TN35
U308.0031.62	.618	.062	.177	.031	.138	3	308080R			▲
U308.0047.94	.618	.094	.177	.047	.138	3	308080R		Δ	▲
Dimensions in inch									P	● ●
									M	● ●
									K	● ●
									N	● ●
									S	● ●
									H	- -

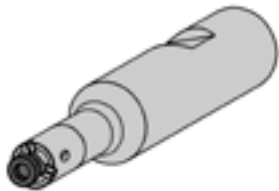
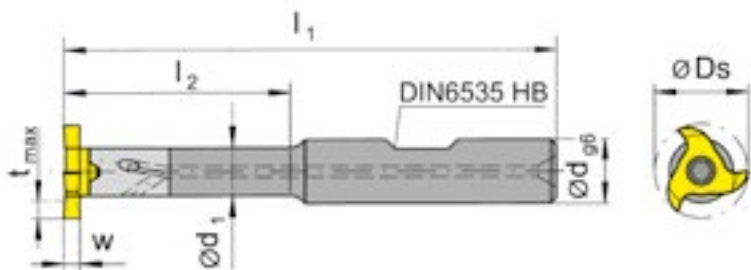
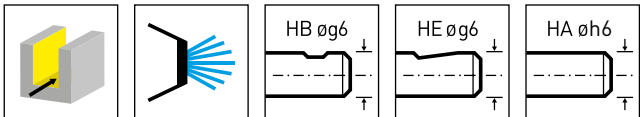
D1

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D1

Toolholder and Inserts



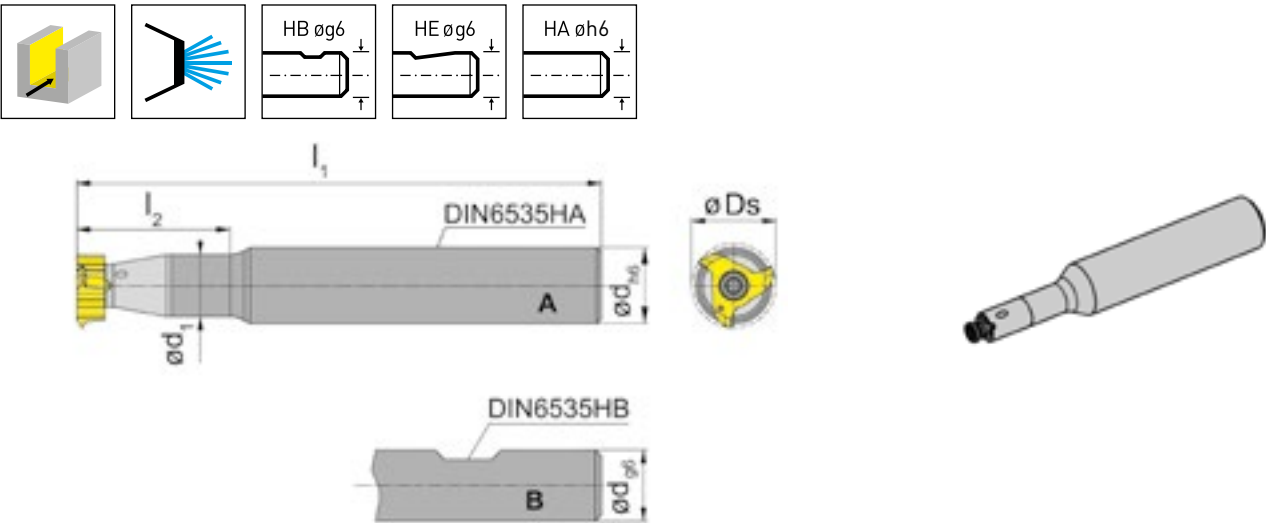
Part number	d	l ₁	l ₂	d ₁	Form	HWS
MU311.0500.01B	.5	3.937	1.26	.354	B	311090R
MU311.0500.02B	.5	3.937	1.772	.354	B	311090R
MU311.0500.03B	.5	4.724	2.52	.354	B	311090R
MU311.0625.01B	.625	3.937	1.26	.354	B	311090R
MU311.0625.02B	.625	4.331	1.772	.354	B	311090R
MU311.0625.03B	.625	5.118	2.52	.354	B	311090R

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU311...	4.14T15P	T15PQ

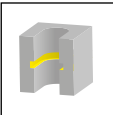


Part number	d	l ₁	l ₂	d ₁	Form	HWS
MU311.1212.07A	.5	6.299	-	.354	A	311090R
MU311.0625.04B	.625	4.331	1.26	.512	B	311090R
MU311.0625.05B	.625	5.118	1.772	.512	B	311090R

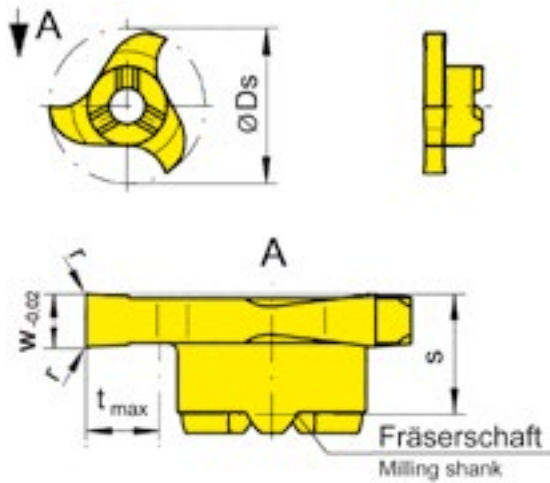
w, Ds, tmax see inserts

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU311...	4.14T15P	T15PQ



z3



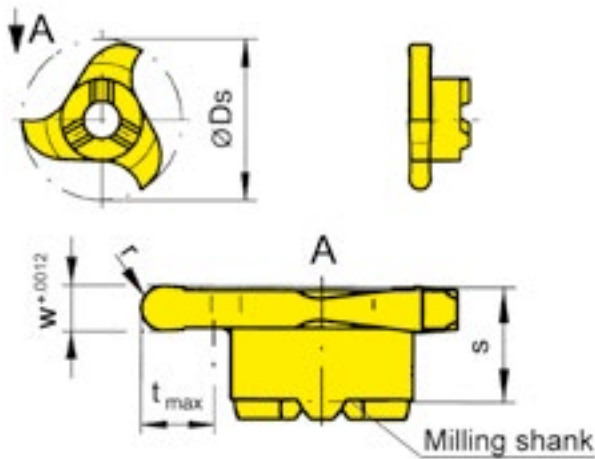
Picture = right hand cutting version

Carbide grades

▲ on stock

Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS	MG12	TF45	TN35
U311.0046.00	.697	.046	.226	-	.138	3	311090R			▲
U311.0056.00	.697	.056	.226	-	.138	3	311090R			▲
U311.0062.00	.697	.062	.226	-	.138	3	311090R			▲
U311.0046.08	.697	.046	.226	.008	.138	3	311090R			▲
U311.0062.08	.697	.062	.226	.008	.138	3	311090R			▲
U311.0078.08	.697	.078	.226	.008	.138	3	311090R	▲		▲
U311.0094.08	.697	.094	.226	.008	.138	3	311090R	Δ		▲
U311.0125.08	.697	.125	.226	.008	.138	3	311090R	▲	Δ	▲
Dimensions in inch								P	o	•
								M	-	•
								K	-	•
								N	-	•
								S	-	•
								H	-	-



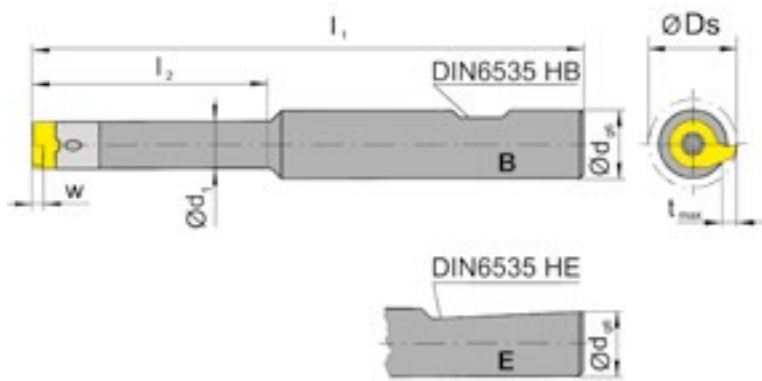
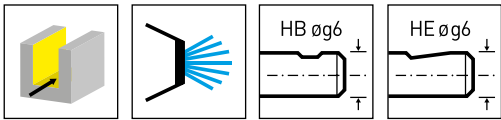
Carbide grades

Picture = right hand cutting version

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS		
U311.0031.62	.697	.062	.226	.031	.138	3	311090R	TF45	TN35
U311.0047.94	.697	.094	.226	.047	.138	3	311090R	▲	▲
U311.0062.125	.697	.125	.226	.062	.138	3	311090R	Δ	▲
Dimensions in inch								P	● ●
								M	● ●
								K	● ●
								N	● ●
								S	● ●
								H	- -

D1



Part number	d	l_1	l_2	d_1	Form	HWS
MU116.0625.01B	.625	5.118	1.575	.433	B	116110R • 116110L
MU116.0625.02B	.625	5.118	2.205	.433	B	116110R • 116110L
MU116.0625.03B	.625	5.906	3.15	.433	B	116110R • 116110L

w, D_s , t_{max} see inserts

Note from $\varnothing 0.630''$:

Only back face milling with oriented spindlestop offset of centerline.

Dimensions in inch

Spare Parts

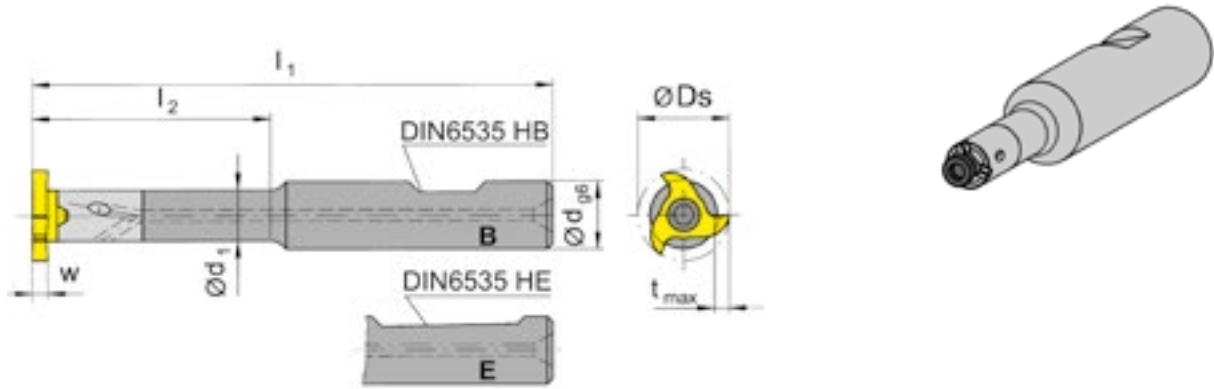
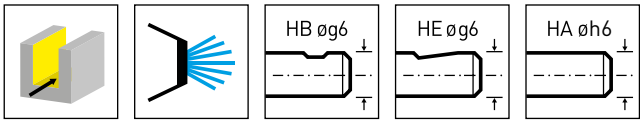
Milling shank	Clamping Screw	TORX PLUS® Wrench
MU116...	5.13T20EP	T20PQ

313



D1

Toolholder and Inserts



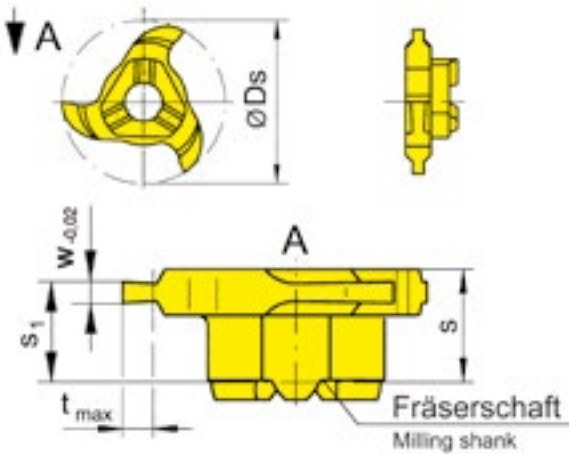
Part Number	d	l ₁	l ₂	d ₁	Form	HWS
MU313.0500.01A	.5	3.937	-	.445	A	313113R • 313113L
MU313.0500.01B	.5	3.937	-	.445	B	313113R • 313113L
MU313.0500.02B	.5	5.118	-	.445	B	313113R • 313113L
MU313.0625.01B	.625	3.937	3.937	.445	B	313113R • 313113L
MU313.0625.02B	.625	5.118	2.362	.445	B	313113R • 313113L
MU313.0625.03B	.625	6.299	3.346	.445	B	313113R • 313113L
MU313.0750.04B	.75	5.118	2.559	.445	B	313113R • 313113L
MU313.0750.05B	.75	5.118	2.559	.445	B	313113R • 313113L
MU313.1515.08A	.625	7.874	-	.445	A	313113R • 313113L

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU313...	5.14T20P	T20PQ



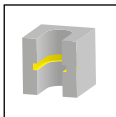
Carbide grades

Picture = right hand cutting version

▲ on stock

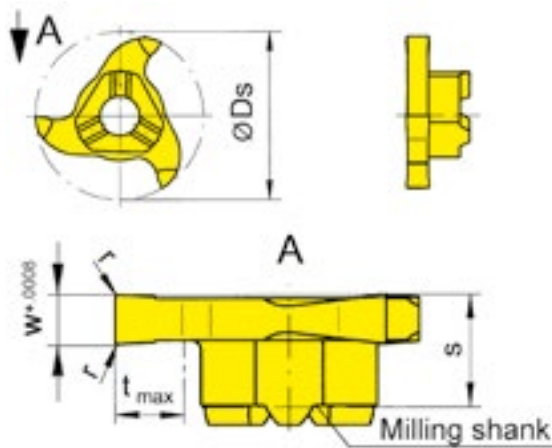
Δ 4 weeks

Part number	Ds	w	s	s ₁	t _{max}	Z	HIS	MG12	TN35
U313.0031.00	.854	.032	.232	.224	.059	3	313113R		▲
U313.0034.00	.854	.034	.232	.224	.067	3	313113R		Δ
U313.0039.00	.854	.04	.232	.224	.075	3	313113R		▲
U313.0046.00	.854	.047	.232	.224	.098	3	313113R	Δ	▲
Dimensions in inch								P	o
								M	-
								K	-
								N	-
								S	-
								H	-



z3

.40



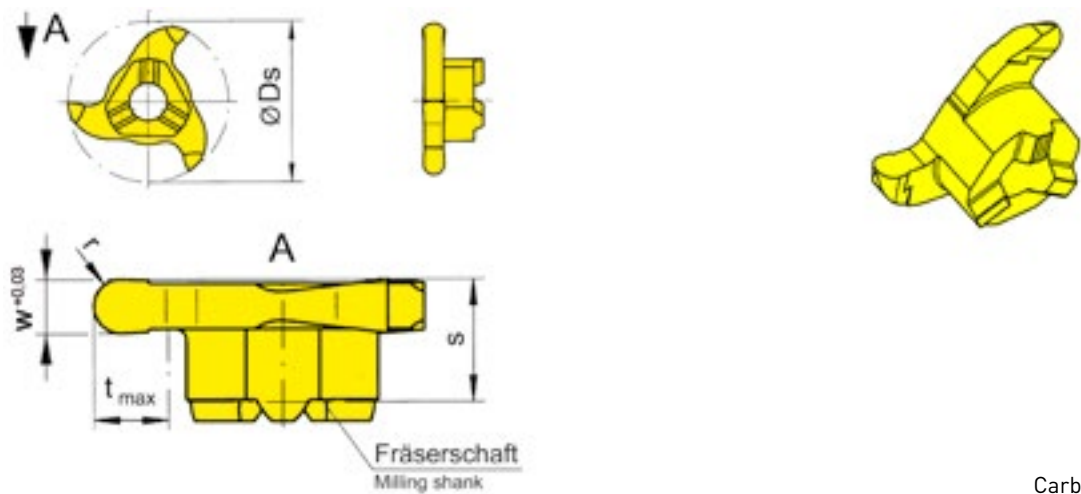
Carbide grades

Picture = right hand cutting version

▲ on stock

Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS	Carbide grades			
								MG12	AS45	TF45	TN35
U313.0056.00	.854	.056	.224	-	.177	3	313113R				▲
U313.0062.00	.854	.062	.224	-	.177	3	313113R	Δ			▲
U313.0062.08	.854	.062	.224	.008	.177	3	313113R				▲
U313.0078.08	.854	.078	.224	.008	.177	3	313113R				▲
U313.0094.08	.854	.094	.224	.008	.177	3	313113R			▲	▲
U313.0125.08	.854	.125	.224	.008	.177	3	313113R	▲	▲		▲
U313.0157.08	.854	.157	.224	.008	.177	3	313113R	Δ			▲
U313.0172.08	.854	.172	.224	.008	.177	3	313113R				Δ
U313.0187.08	.854	.187	.224	.008	.177	3	313113R	Δ			▲
U313.0250.08	.854	.25	.272	.008	.177	3	313113R	▲	▲		▲
U313.0187.16	.854	.187	.224	.016	.177	3	313113R				Δ
Dimensions in inch								P	o	•	•
								M	-	•	•
								K	-	•	•
								N	-	o	•
								S	-	•	•
								H	-	-	-

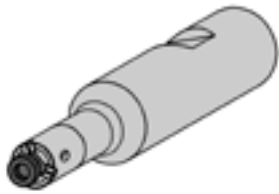
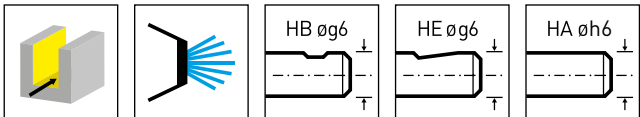


Picture = right hand cutting version

Carbide grades

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS		TF45	TI25	TN35
U313.0031.62	.854	.062	.224	.031	.177	3	313113R		▲		▲
U313.0047.94	.854	.094	.224	.047	.177	3	313113R			Δ	▲
U313.0062.125	.854	.125	.224	.062	.177	3	313113R		Δ		▲
U313.0078.156	.854	.156	.224	.078	.177	3	313113R				▲
U313.0094.188	.854	.188	.224	.094	.177	3	313113R		Δ		▲
U313.0125.250	.854	.25	.224	.125	.177	3	313113R				▲
Dimensions in inch								P	●	●	●
								M	●	●	●
								K	●	●	●
								N	●	●	●
								S	●	●	●
								H	-	-	-



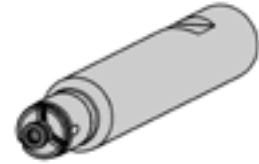
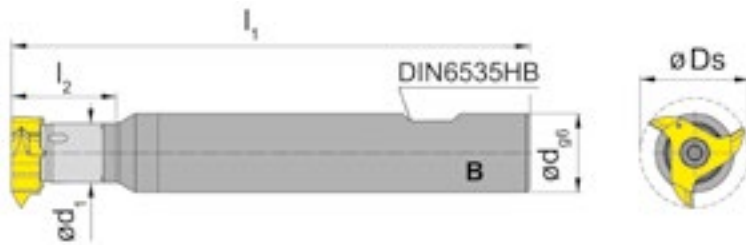
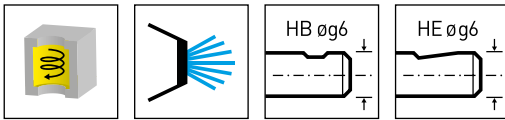
Part number	d	l ₁	l ₂	d ₁	HWS
MU328.0500.01B	.5	3.937	3.937	.563	328143R
MU328.0500.02B	.5	5.118	5.118	.563	328143R
MU328.0625.01B	.625	3.937	1.654	.563	328143R
MU328.0625.02B	.625	5.118	2.362	.563	328143R
MU328.0625.03B	.625	6.299	3.346	.563	328143R
MU328.0750.00B	.75	4.094	1.378	.531	328143R
MU328.0750.03B	.75	6.299	3.346	.563	328143R

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU328....	5.14T20P	T20PQ
MU328.0750.00B	5.13T20KP	T20PQ



Picture = right hand cutting version

Part number	d	l_1	l_2	d_1	HWS
SMU328.0750.05B	.75	5.118	.984	.591	328143R
SMU328.0750.06B	.75	5.709	-	.75	328143R
SMU328.0750.07B	.75	6.299	.984	.591	328143R
SMU328.0750.08B	.75	7.874	-	.75	328143R

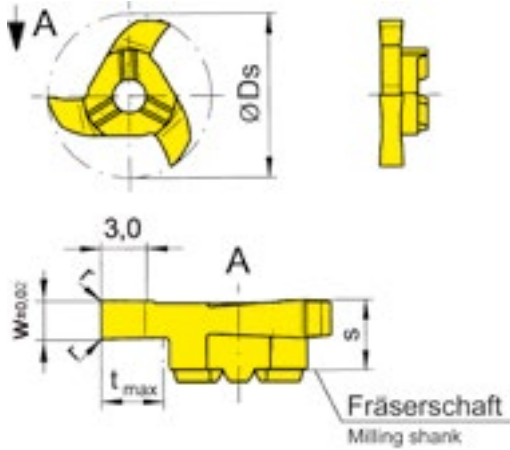
Material of shank: tungsten alloy (giving good vibration resistance)

Ds see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
SMU328.0750.....	5.17T20P	T20PQ



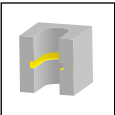
Carbide grades

Picture = right hand cutting version

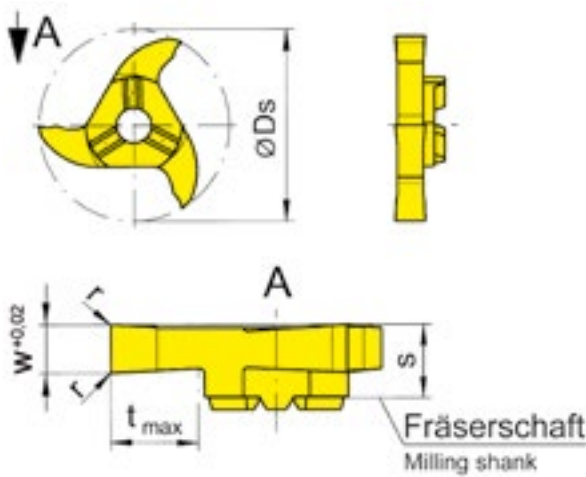
▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS	TN35	
U325.0125.52	.976	.125	.224	.008	.197	3	328143R	▲	
Dimensions in inch									P ●
									M ●
									K ●
									N ●
									S ●
									H -

D1



z3



Picture = right hand cutting version

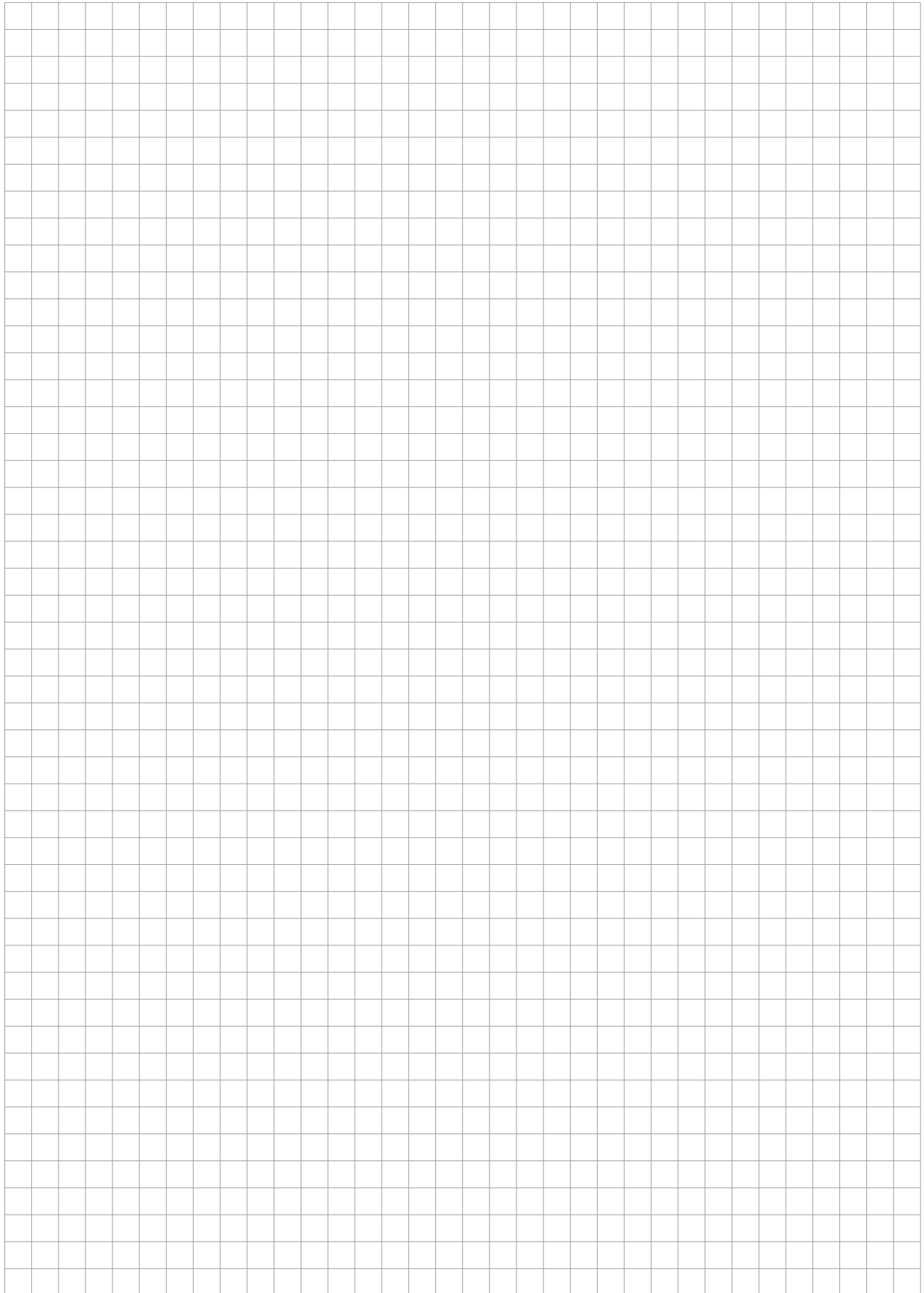
Carbide grades

▲ on stock Δ 4 weeks

Part number	Ds	w	s	r	t _{max}	Z	HIS		TF45	TN35
U328.0094.08	1.091	.094	.224	.008	.256	3	328143R			▲
U328.0125.08	1.091	.125	.224	.008	.256	3	328143R		Δ	▲
U328.0157.08	1.091	.157	.224	.008	.256	3	328143R		Δ	▲
U328.0187.08	1.091	.188	.224	.008	.256	3	328143R			▲
U328.0157.16	1.091	.157	.224	.016	.256	3	328143R			▲
U328.0187.16	1.091	.188	.224	.016	.256	3	328143R		Δ	▲
Dimensions in inch								P	●	●
								M	●	●
								K	●	●
								N	●	●
								S	●	●
								H	-	-

D1

D1

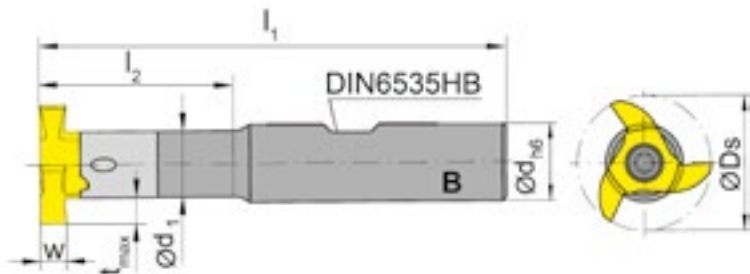
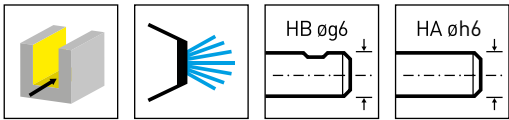


332



D1

Toolholder and Inserts



Picture = right hand cutting version

Part number	d	l ₁	l ₂	d ₁	HWS
MU332.0625.01B	.625	3.937	1.654	.563	332143R
MU332.0625.02B	.625	5.118	2.362	.563	332143R
MU332.0625.03B	.625	6.299	3.346	.563	332143R
MU332.0750.01B	.75	3.937	1.654	.563	332143R
MU332.0750.02B	.75	5.118	2.362	.563	332143R
MU332.0750.03B	.75	6.299	3.346	.563	332143R

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

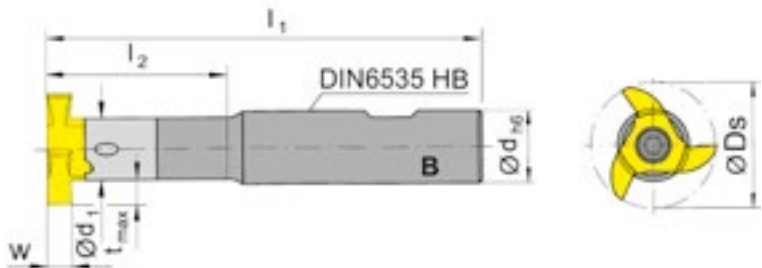
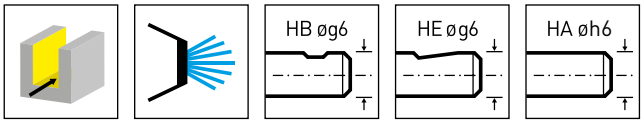
Milling shank	Clamping Screw	TORX PLUS® Wrench
MU332...	5.17T20P	T20PQ

335



D1

Toolholders



Picture = right hand cutting version

Part number	d	l ₁	l ₂	d ₁	HWS
MU335.0750.01B	.75	3.937	1.575	.689	335175R
MU335.0750.02B	.75	5.118	2.362	.689	335175R
MU335.0750.03B	.75	6.299	3.346	.689	335175R

w, Ds, tmax see inserts

Dimensions in inch

Spare Parts

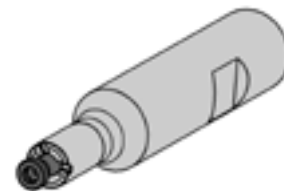
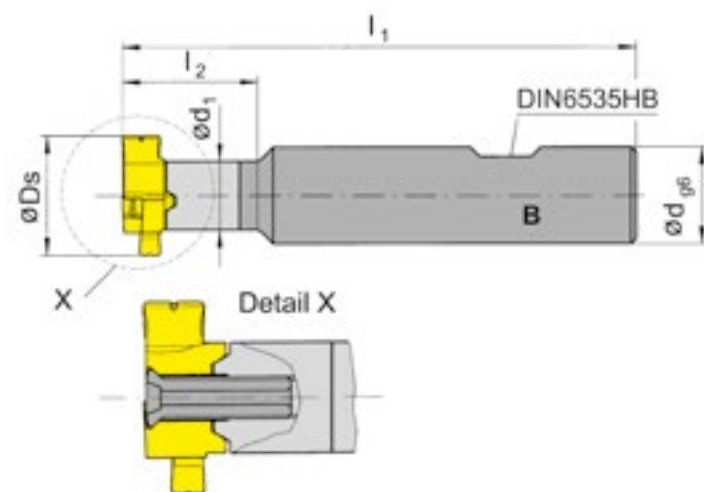
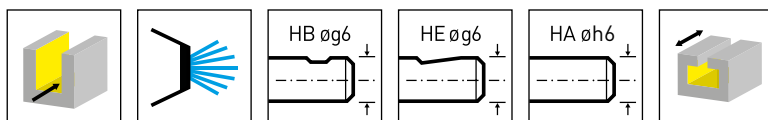
Milling shank	Clamping Screw	TORX PLUS® Wrench
MU335...	6.17T25P	T25PQ

311,313,328



D1

Toolholders



Picture = right hand cutting version

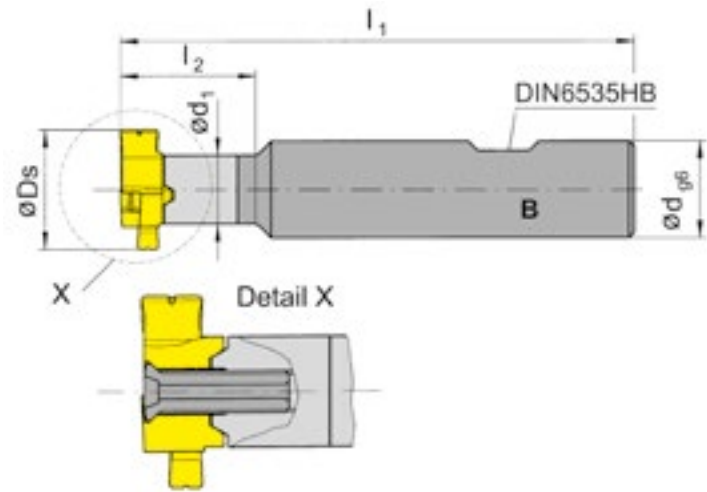
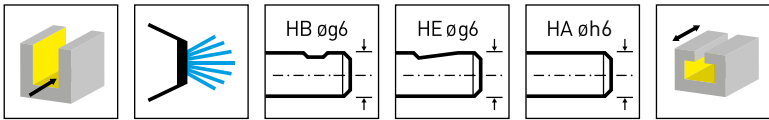
Part number	d	l ₁	l ₂	d ₁	Form	HWS
MU311.0625.00B	.625	3.543	.984	.354	B	311090R

Ds see inserts

D1

Spare Parts

	Clamping Screw	TORX PLUS® Wrench
MU311.0625.00B	4.16T15KP	T15PQ



Picture = right hand cutting version

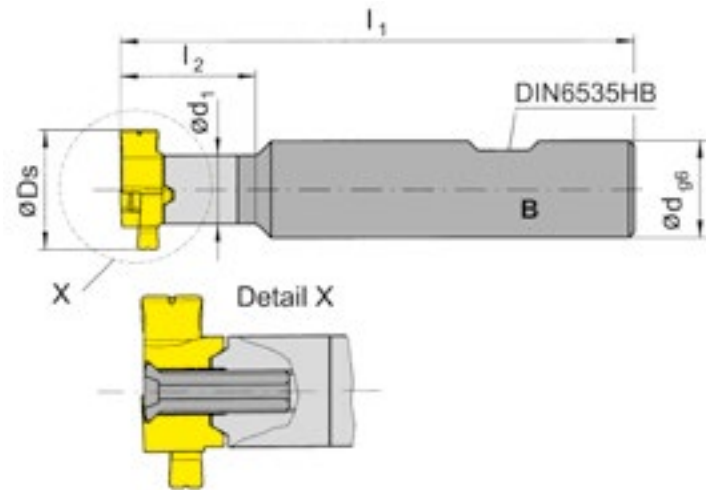
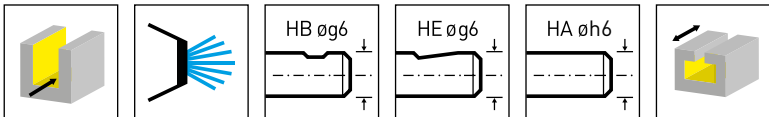
Part number	d	l ₁	l ₂	d ₁	Form	HWS
MU313.0625.00B	.625	3.661	1.181	.445	B	313113R • 313113L

Ds see inserts

Dimensions in inch

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
MU313.0625.00B	5.13T20KP	T20PQ



Picture = right hand cutting version

Part number	d	l ₁	l ₂	d ₁	Form	HWS
MU328.0750.00B	.75	4.094	1.378	.531	B	328143R

Ds see inserts

Dimensions in inch

D1

Spare Parts

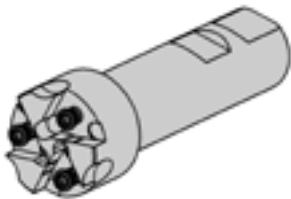
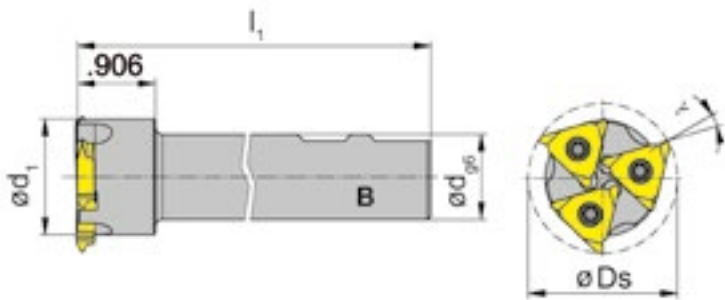
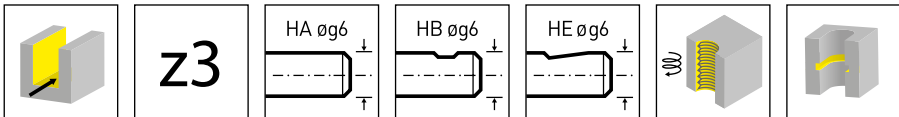
Milling shank	Clamping Screw	TORX PLUS® Wrench
MU328.0750.00B	5.13T20KP	T20PQ

380/381/382/383



D1

Toolholder and Inserts



Picture = right hand cutting version

Part number	Z	Ds	d	d ₁	t _{max}	λ	Form	HWS
U380.1732.03B	3	1.732	1	1.339	.157	14°	B	314027R • 314041R • 314052R

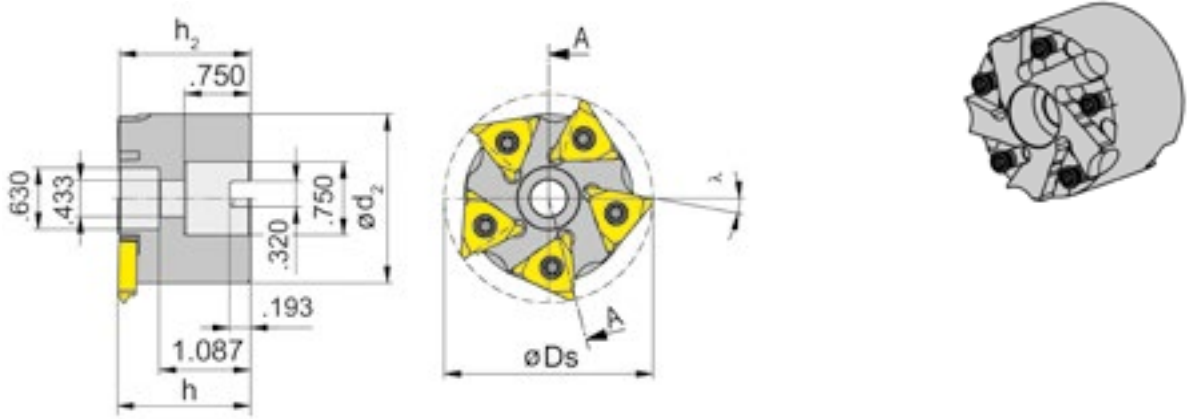
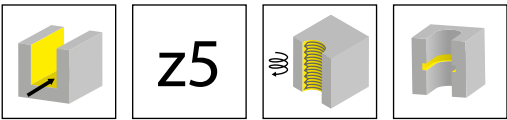
tmax see inserts

D1

Spare Parts

Milling shank	Clamping Screw	TORX PLUS® Wrench
U380.1732.03B	5.12T20P	T20PQ

Arbour Mounted Cutter U380



Picture = right hand cutting version

Part number	Z	Ds	h ₂	h	d ₃	l ₁	l ₂	λ	d ₂	HWS
U380.2480.05	5	2.48	1.559	1.575	.75	.75	1.087	10°	2.008	314027R • 314041R • 314052R

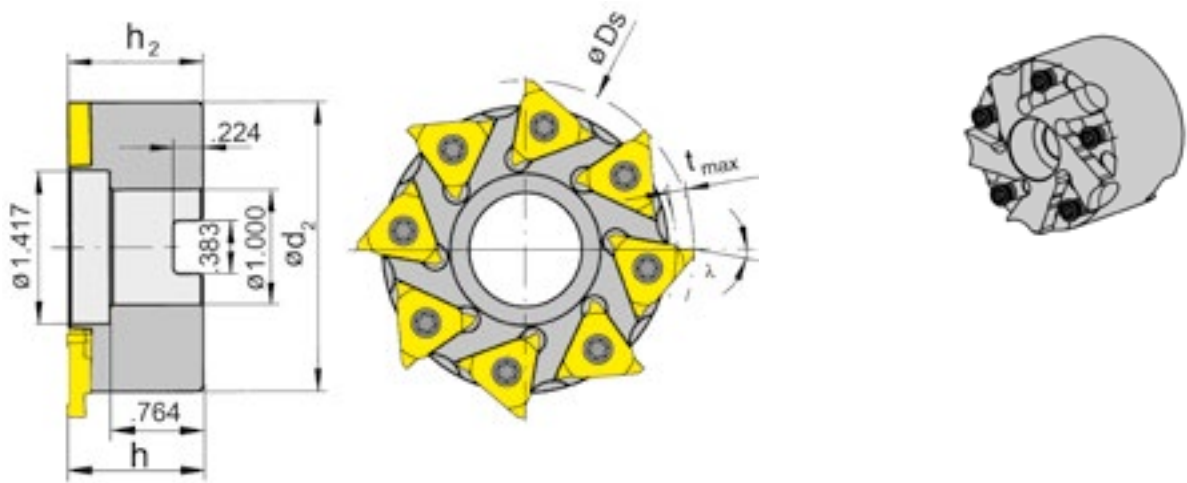
Cutterhole and cross keyway as per DIN 138

tmax see inserts

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
U380.2480.05	5.12T20P	T20PQ

D1



Picture = right hand cutting version

Part number	Z	Ds	h ₂	h	l ₂	λ	d ₂	d ₃	HWS
U380.3150.08	8	3.15	1.244	1.26	.764	10°	2.677	1	314027R • 314041R • 314052R

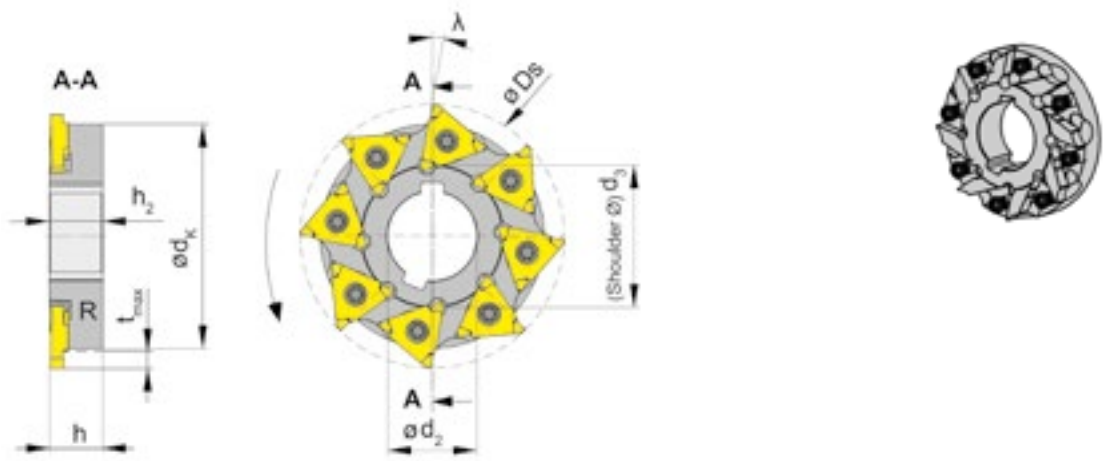
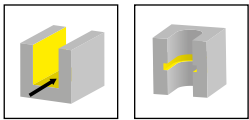
Cutterhole and cross keyway as per DIN 138

Bolt screw **030.0012.0726** is combined with the milling cutter.

Dimensions in inch

Spare Parts

Milling cutter	Clamping Screw	TORX PLUS® Wrench
U380.3150.08	5.12T20P	T20PQ



Picture = right hand cutting version

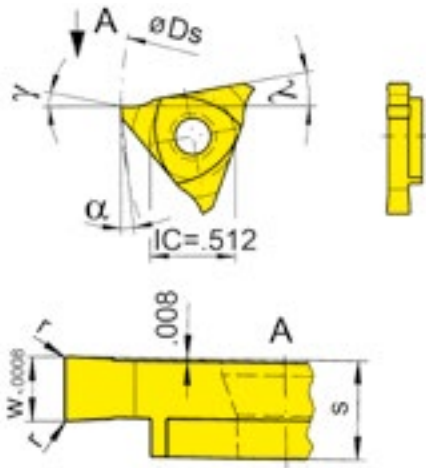
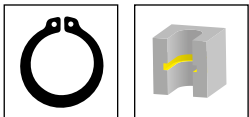
Part number	Ds	t _{max}	d ₂	λ	HWS
RU381.2480.05	2.48	.197	.75	14°	314027R • 314041R • 314052R
RU381.3150.08	3.15	.197	1	10°	314027R • 314041R • 314052R
RU381.3937.10	3.937	.197	1.25	10°	314027R • 314041R • 314052R
LU381.2480.05	2.48	.197	.75	14°	314027L • 314041L • 314052L
LU381.3150.08	3.15	.197	1	10°	314027L • 314041L • 314052L
LU381.3937.10	3.937	.197	1.25	10°	314027L • 314041L • 314052L

Bore (d2) with longitudinal keyway to DIN 138

tmax see inserts

Spare Parts

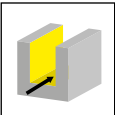
Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
R/LU381...	5.12T20P	T20PQ



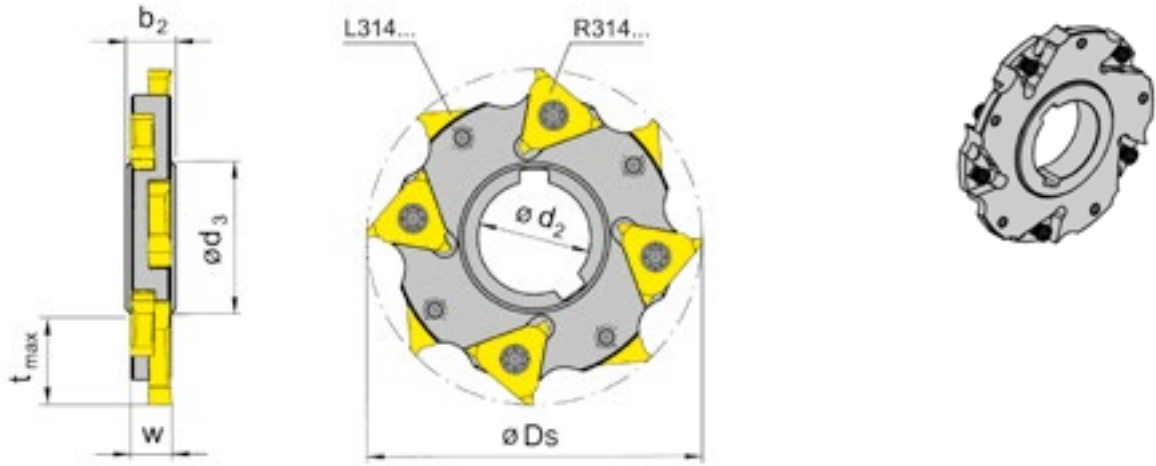
R = right hand cutting version shown L = left hand version

Part number	w	r	s	HIS		
					TF45	TN35
RU314.0046.00	.046	-	.213	314052R	Δ	▲
RU314.0062.00	.062	.003	.213	314052R		▲
RU314.0078.00	.078	.006	.213	314052R		▲
RU314.0094.00	.094	.006	.213	314052R		▲
RU314.0125.00	.125	.006	.213	314052R		▲
RU314.0157.00	.157	.006	.213	314052R		▲
RU314.0187.00	.187	.006	.213	314052R		▲
LU314.0046.00	.046	-	.213	314052L		▲
LU314.0062.00	.062	.003	.213	314052L		▲
LU314.0078.00	.078	.006	.213	314052L		▲
LU314.0094.00	.094	.006	.213	314052L		▲
LU314.0125.00	.125	.006	.213	314052L		▲
LU314.0187.00	.187	.006	.213	314052L		▲
Dimensions in inch					P	● ●
					M	● ●
					K	● ●
					N	● ●
					S	● ●
					H	- -

D1



z8



Picture = right hand cutting version

Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₃	w	right hand insert	left hand insert	HWS
U382.3250.06	8	3.25	.827	1	.374	1.5	.236	4x R314.6032.00	4x L314.6032.00	314027R • 314027L
U382.3250.08	8	3.25	.827	1	.5	1.5	.315	4x R314.8043.00	4x L314.8043.00	314041R • 314041L
U382.3250.10	8	3.25	.827	1	.5	1.5	.394	4x3 R314.0054.00	4x L314.0054.00	314052R • 314052L

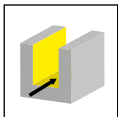
Bore [d2] with longitudinal keyway to DIN 138

Dimensions in inch

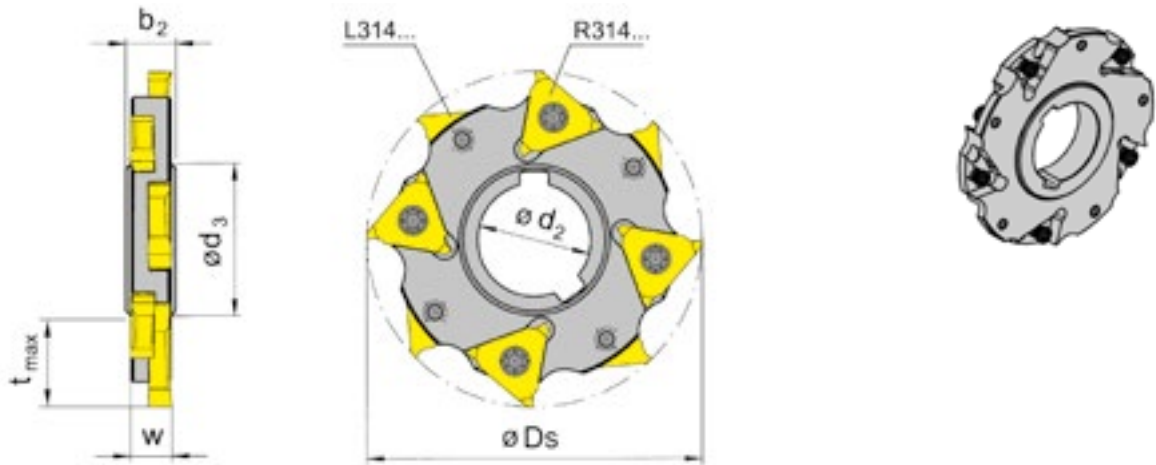
Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
U382.3250.06	5F.06T15P	T15PQ
U382.3250.08	5F.08T20P	T20PQ
U382.3250.10	5.10T20P	T20PQ

D1



z10



Picture = right hand cutting version

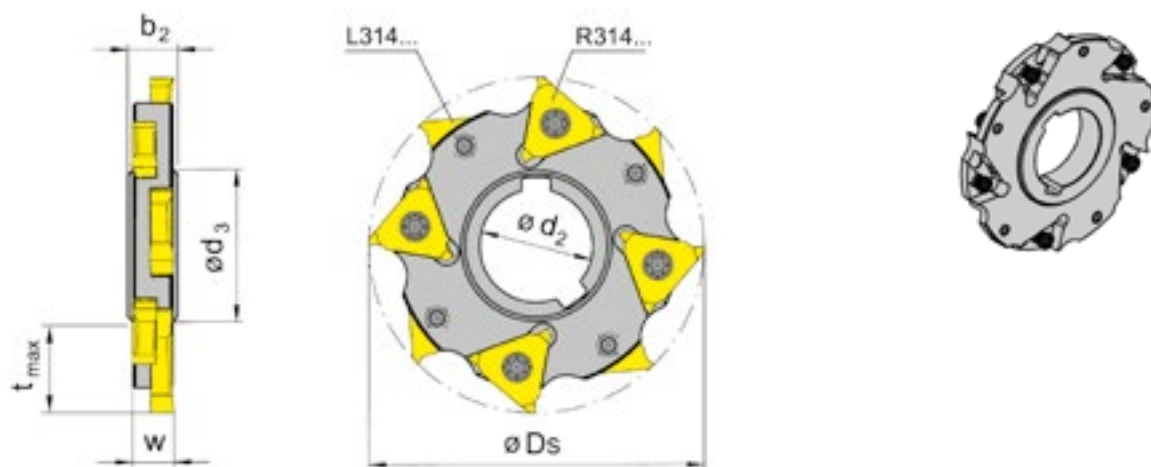
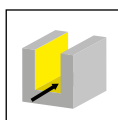
Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₃	w	right hand insert	left hand insert	HWS
U382.4000.06	10	4	1.004	1.25	.374	1.874	.236	5x R314.6032.00	5x L314.6032.00	314027R • 314027L
U382.4000.08	10	4	1.004	1.25	.5	1.874	.315	5x R314.8043.00	5x L314.8043.00	314041R • 314041L
U382.4000.10	10	4	1.004	1.25	.5	1.874	.394	5x R314.0054.00	5x L314.0054.00	314052R • 314052L

Bore [d2] with longitudinal keyway to DIN 138

Dimensions in inch

Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
U382.4000.06	5F.06T15P	T15PQ
U382.4000.08	5F.08T20P	T20PQ
U382.4000.10	5.10T20P	T20PQ



Picture = right hand cutting version

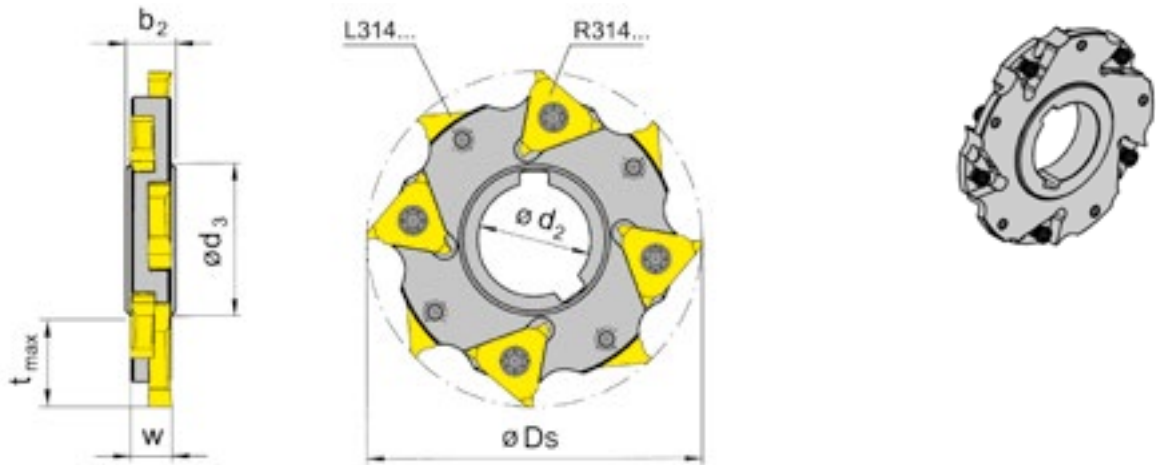
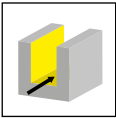
Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₃	w	right hand insert	left hand insert	HWS
U382.5000.06	12	5	1.28	1.5	.374	2.252	.236	6x R314.6032.00	6x L314.6032.00	314027R • 314027L
U382.5000.08	12	5	1.28	1.5	.5	2.252	.315	6x R314.8043.00	6x L314.8043.00	314041R • 314041L
U382.5000.10	12	5	1.28	1.5	.551	2.252	.394	6x R314.0054.00	6x L314.0054.00	314052R • 314052L
U382.5000.12	12	5	1.28	1.5	.551	2.252	.472	8x R314.0054.00	4x L314.0054.00	314052R • 314052L

Bore [d2] with longitudinal keyway to DIN 138

Dimensions in inch

Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
U382.5000.06	5F.06T15P	T15PQ
U382.5000.08	5F.08T20P	T20PQ
U382.5000....	5.10T20P	T20PQ



Picture = right hand cutting version

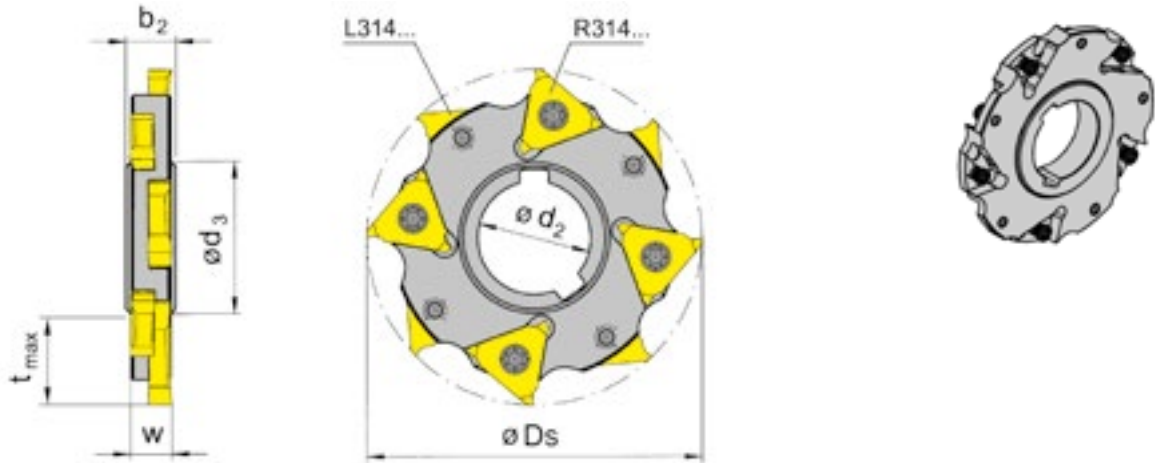
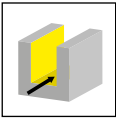
Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₃	w	right hand insert	left hand insert	HWS
U382.6250.06	16	6.25	1.969	1.5	.374	2.252	.236	8x R314.6032.00	8x L314.6032.00	314027R • 314027L
U382.6250.08	16	6.25	1.969	1.5	.5	2.252	.315	8x R314.8043.00	8x L314.8043.00	314041R • 314041L
U382.6250.10	16	6.25	1.969	1.5	.551	2.252	.394	8x R314.0054.00	8x L314.0054.00	314052R • 314052L
U382.6250.12	15	6.25	1.969	1.5	.551	2.252	.472	10x R314.0054.00	5x L314.0054.00	314052R • 314052L

Bore [d2] with longitudinal keyway to DIN 138

Dimensions in inch

Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
U382.6250.06	5F.06T15P	T15PQ
U382.6250.08	5F.08T20P	T20PQ
U382.6250....	5.10T20P	T20PQ



Picture = right hand cutting version

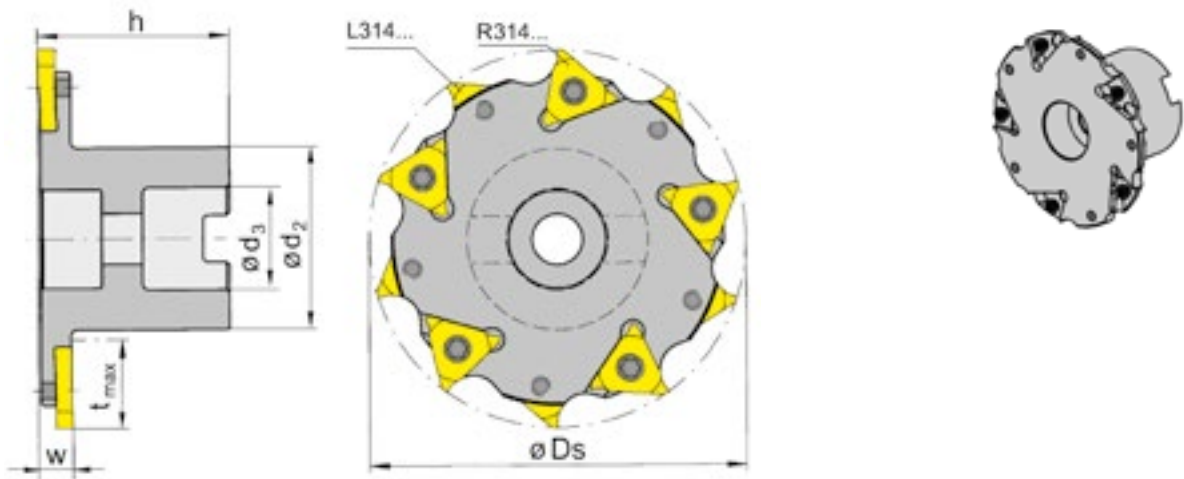
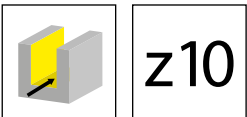
Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₃	w	right hand insert	left hand insert	HWS
U382.7875.14	18	7.875	2.5	2	.626	2.874	.551	12x R314.0054.00	6x L314.0054.00	314052R • 314052L

Bore (d2) with longitudinal keyway to DIN 138

Dimensions in inch

Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
U382.7875.14	5.10T20P	T20PQ



Picture = right hand cutting version

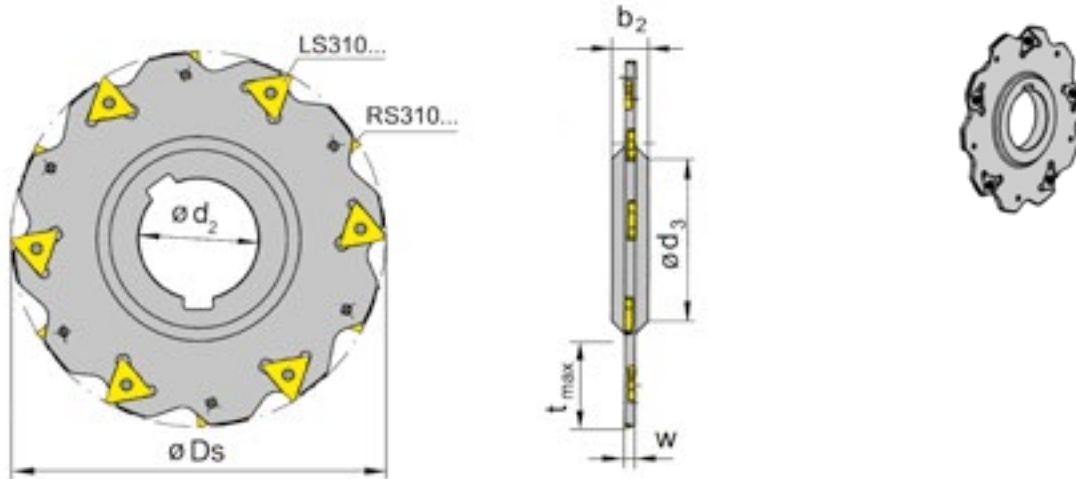
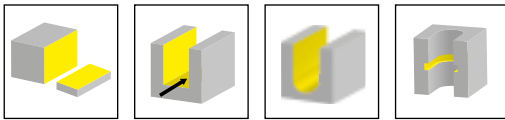
Part number	Z	Ds	t _{max}	h	d ₂	d ₃	w	right hand insert	left hand insert	HWS
U383.4000.06	10	4	1.023	2	1.874	1	.236	5x R314.6032.00	5x L314.6032.00	314027R • 314027L
U383.4000.08	10	4	1.023	2	1.874	1	.315	5x R314.8043.00	5x L314.8043.00	314041R • 314041L
U383.4000.10	10	4	1.023	2	1.874	1	.394	5x R314.0054.00	5x L314.0054.00	314052R • 314052L

Bore [d3] with cross keyway to DIN 138

Dimensions in inch

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
U383.4000.06	5F.06T15P	T15PQ
U383.4000.08	5F.08T20P	T20PQ
U383.4000.10	5.10T20P	T20PQ



Picture = right hand cutting version

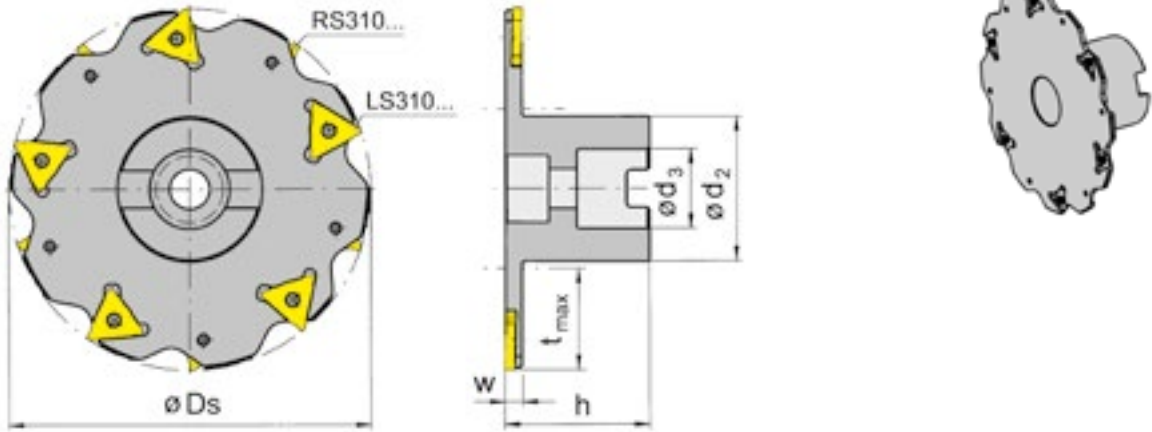
Part number	Z	Ds	t _{max}	d ₂	b ₂	d ₄	w	right hand insert	left hand insert	HWS
MU310.3250.04	8	3.25	.787	1	.327	1.5	.157	4x RS310.4023...	4x LS310.4023...	310023R • 310023L
MU310.4000.04	10	4	.984	1.25	.327	1.874	.157	5x RS310.4023.00	5x LS310.4023.00	310023R • 310023L
MU310.5000.04	12	5	1.26	1.5	.374	2.252	.157	6x RS310.4023.00	6x LS310.4023.00	310023R • 310023L
MU310.6250.04	16	6.25	1.921	1.5	.375	2.252	.157	8x RS310.4023.00	8x LS310.4023.00	310023R • 310023L
MU310.3250.05	8	3.25	.787	1	.327	1.5	.197	4x RS310.5028...	4x LS310.5028...	310028R • 310028L
MU310.4000.05	10	4	.984	1.25	.327	1.874	.197	5x RS310.5028.00	5x LS310.5028.00	310028R • 310028L
MU310.5000.05	12	5	1.26	1.5	.374	2.252	.197	6x RS310.5028.00	6x LS310.5028.00	310028R • 310028L
MU310.6250.05	16	6.25	1.921	1.5	.374	2.252	.197	8x RS310.5028.00	8x LS310.5028.00	310028R • 310028L

Bore [d2] with longitudinal keyway to DIN 138

Dimensions in inch

Spare Parts

Disc milling cutter	Clamping Screw	TORX PLUS® Wrench
MU310....04	030.3535.T8P	T8PL
MU310....05	030.3543.T8P	T8PL



Picture = right hand cutting version

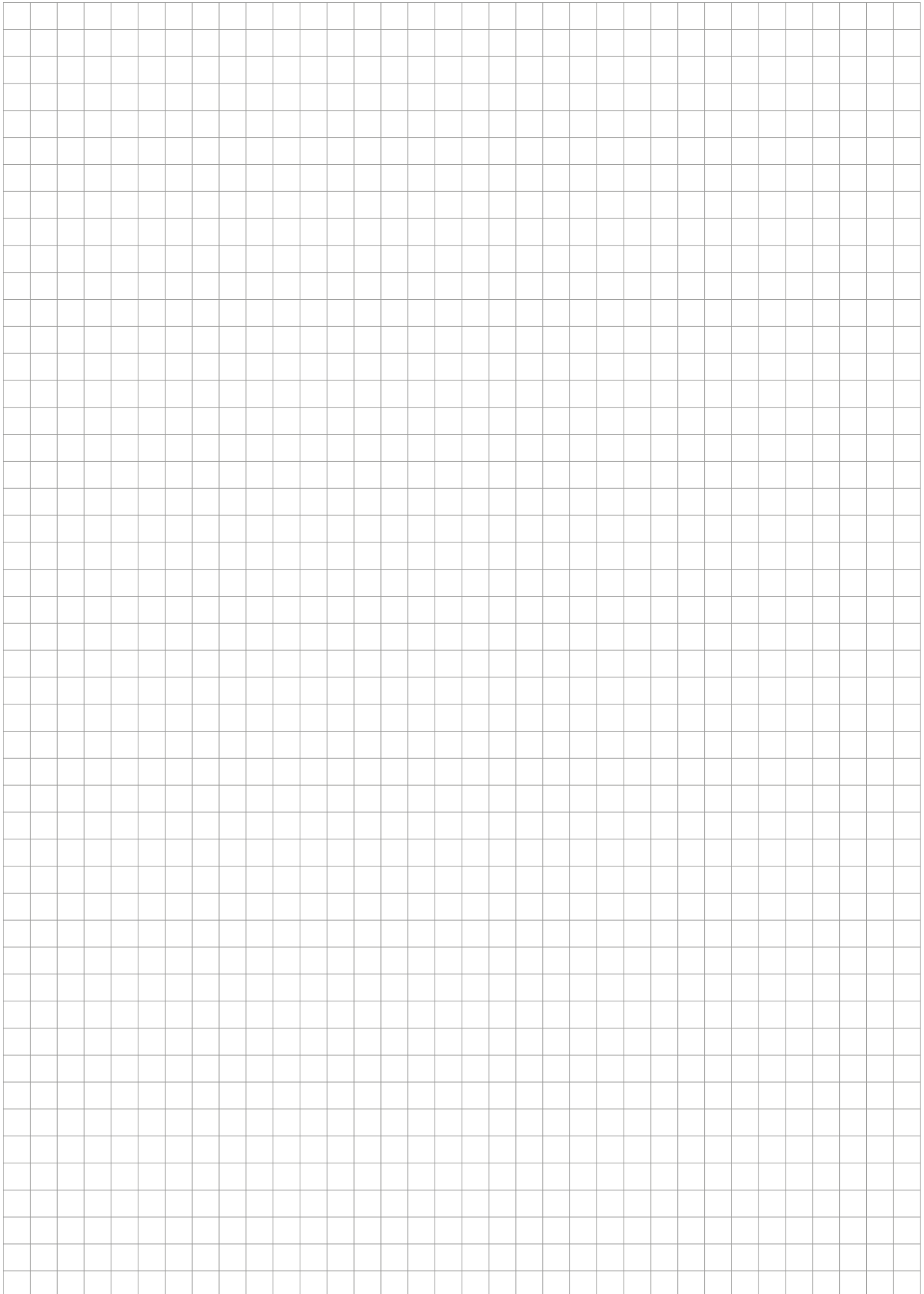
Part number	Z	Ds	t _{max}	h	d ₂	d ₃	w	right hand insert	left hand insert	HWS
MU310.1140.04	10	4	1.023	2	1.874	1	.157	5x RS310.4023.00	5x LS310.4023.00	310028R • 310028L
MU310.1150.04	12	5	1.086	2	2.752	1.5	.157	6x RS310.4023.00	6x LS310.4023.00	310023R • 310023L
MU310.1162.04	16	6.25	1.711	2	2.752	1.5	.157	8x RS310.4023.00	8x LS310.4023.00	310023R • 310023L
MU310.1140.05	10	4	1.023	2	1.874	1	.197	5x RS310.5028.00	5x LS310.5028.00	310023R • 310023L
MU310.1150.05	12	5	1.086	2	2.752	1.5	.197	6x RS310.5028.00	6x LS310.5028.00	310028R • 310028L
MU310.1162.05	16	6.25	1.711	2	2.752	1.5	.197	8x RS310.5028.00	8x LS310.5028.00	310028R • 310028L

Bore [d3] with cross keyway to DIN 138

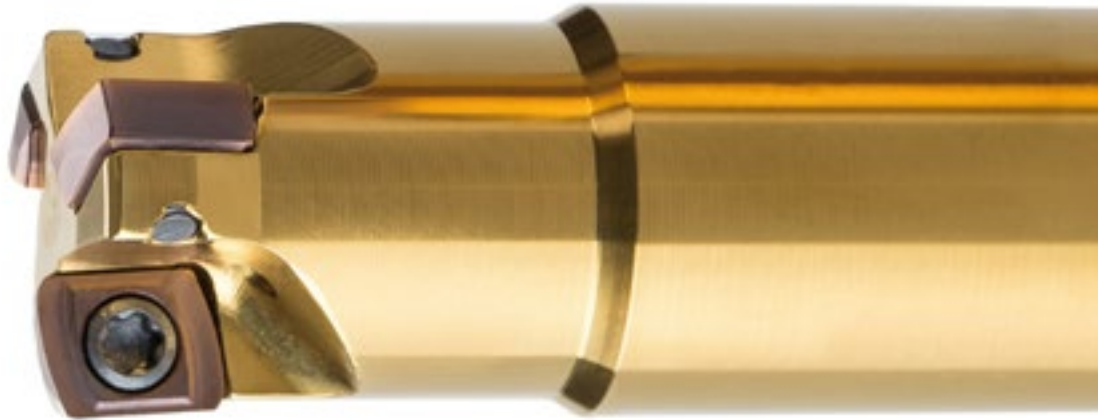
Dimensions in inch

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
MU310.1...4	030.3535.T8P	T8PL
MU310.1...5	030.3543.T8P	T8PL



DAH



D2

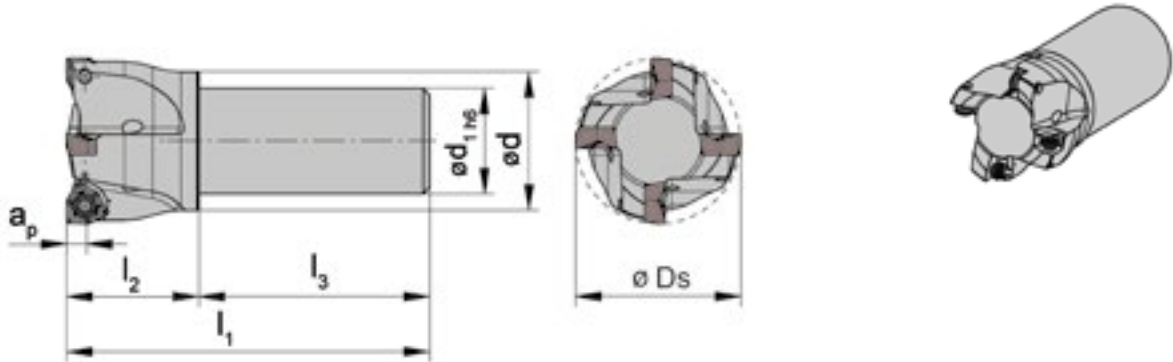
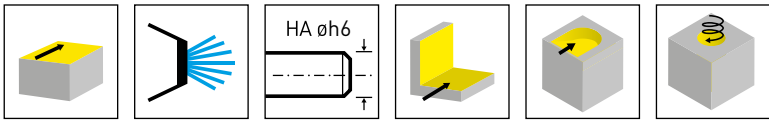
System	Page
DA	D2.6
DAH	D2.15

DA



D2

Toolholder and Inserts



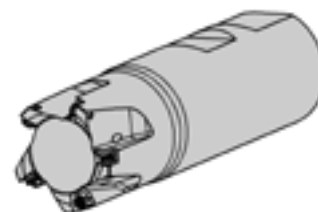
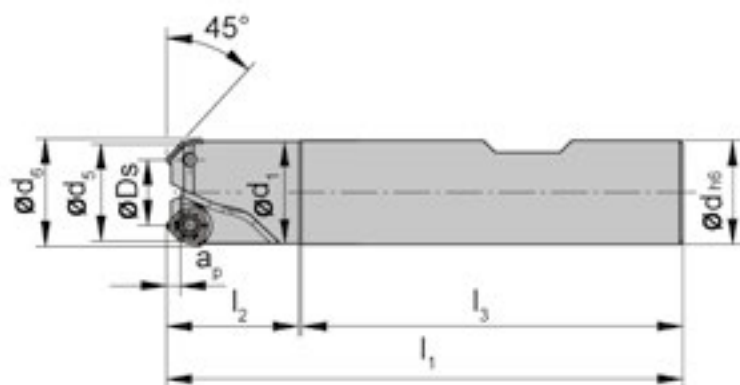
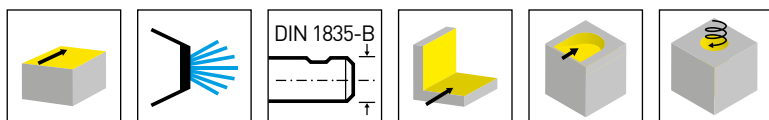
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAMU31.075.D062.03A	3	.75	.625	2.125	.747	.711	1.378	.118	DA3120
DAMU31.100.D062.04A	4	1	.625	2.25	.872	.961	1.378	.118	DA3125
DAMU31.100.D075.04A	4	1	.75	2.25	.872	.961	1.378	.118	DA3125
DAMU31.125.D062.05A	5	1.25	.625	2.5	1.102	1.211	1.378	.118	DA3132
DAMU31.125.D075.05A	5	1.25	.75	2.5	1.102	1.211	1.378	.118	DA3132

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU31.075.D062.03A	030.2547.T8P	T8PL
DAMU31.100.D...	030.2553.T8P	T8PL
DAMU31.125.D...	030.2557.T8P	T8PL



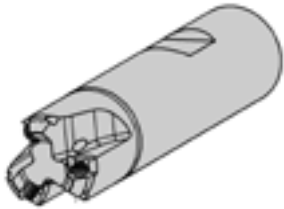
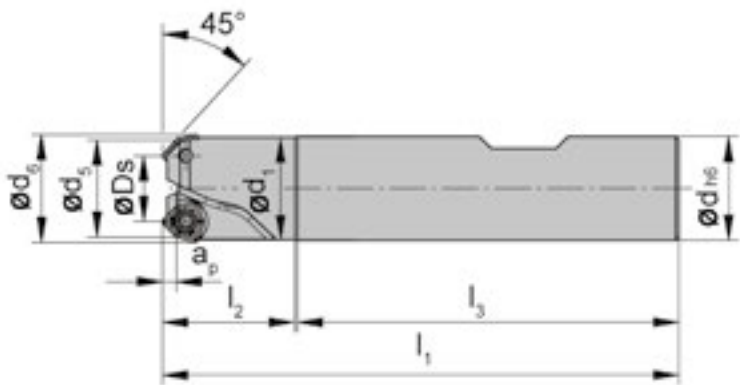
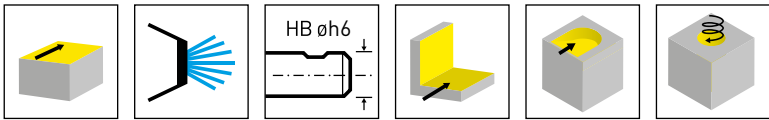
Part number	Z	Ds	d	l_1	l_2	d_1	l_3	a_p	HWS
DAMU31.062.D062.02B	2	.625	.625	3	.984	.586	2	.118	DA3116
DAMU31.075.D075.03B	3	.75	.75	3.25	1.102	.711	2.125	.118	DA3120
DAMU31.100.D100.04B	4	1	1	3.75	1.375	.961	2.375	.118	DA3125
DAMU31.125.D125.05B	5	1.25	1.25	4	1.614	1.211	2.375	.118	DA3132

from $\emptyset .984''$ 2 clamping flats

Dimensions in inch

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU31.062.D062.02B	030.2541.T8P	T8PL
DAMU31.075.D075.03B	030.2547.T8P	T8PL
DAMU31.100.D100.04B	030.2553.T8P	T8PL
DAMU31.125.D125.05B	030.2557.T8P	T8PL



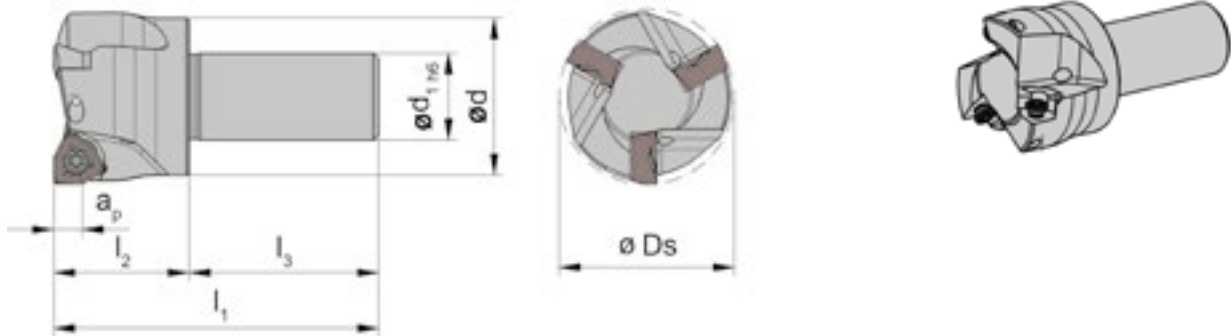
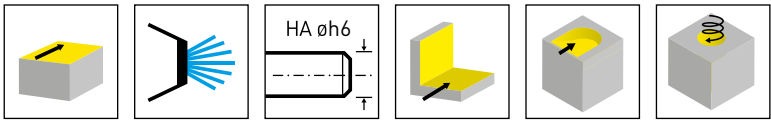
Part number	Z	Ds	d	l_1	l_2	d_1	l_3	d_6	d_5	HWS
DAMU31.411.D062.02B	2	.409	.625	3	.984	.622	2	.622	.591	DA3116
DAMU31.414.D075.03B	3	.565	.75	3.252	1.102	.78	2.125	.78	.74	DA3120

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU31.411.D062.02B	030.2541.T8P	T8PL
DAMU31.414.D075.03B	030.2547.T8P	T8PL

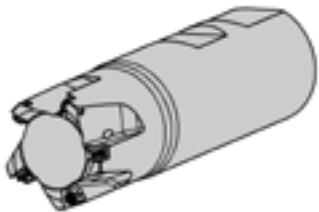
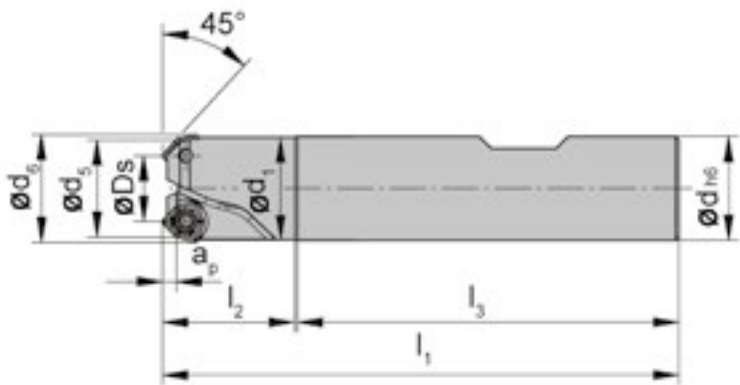
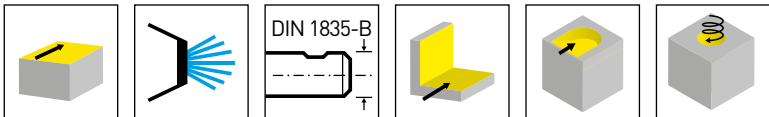


Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAMU32.075.D062.02A	2	.75	.625	2.125	.709	.711	1.378	.177	DA3220
DAMU32.100.D062.03A	3	1	.625	2.25	.866	.961	1.378	.177	DA3225
DAMU32.125.D062.03A	3	1.25	.625	2.5	1.102	1.211	1.378	.177	DA3232

Dimensions in inch

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU32.075.D062.02A	030.3562.T10P	T10PL
DAMU32.100.D062.03A	030.3569.T10P	T10PL
DAMU32.125.D062.03A	030.3576.T10P	T10PL



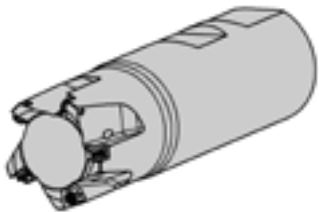
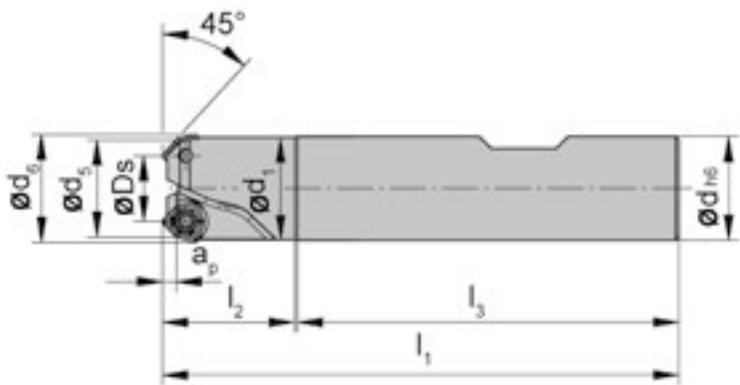
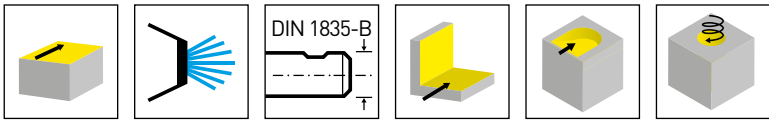
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAMU32.075.D075.02B	2	.75	.75	3.25	1.102	.711	2.125	.177	DA3220
DAMU32.100.D100.03B	3	1	1	4	1.614	.961	2.375	.177	DA3225
DAMU32.125.D125.03B	3	1.25	1.25	4	1.614	1.211	2.375	.177	DA3232

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU32.075.D075.02B	030.3562.T10P	T10PL
DAMU32.100.D100.03B	030.3569.T10P	T10PL
DAMU32.125.D125.03B	030.3576.T10P	T10PL

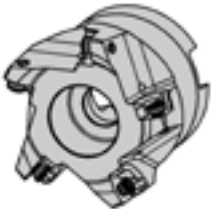
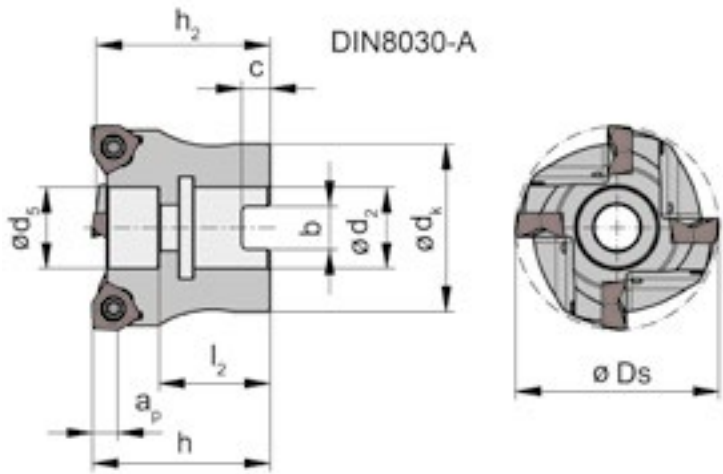


Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	d ₆	d ₅	HWS
DAMU32.417.D100.03B	3	.689	1	4	2.362	1	1.378	1.047	.939	DA3232

Dimensions in inch

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU32.417.D100.03B	030.3569.T10P	T10PL



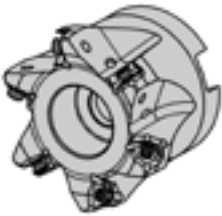
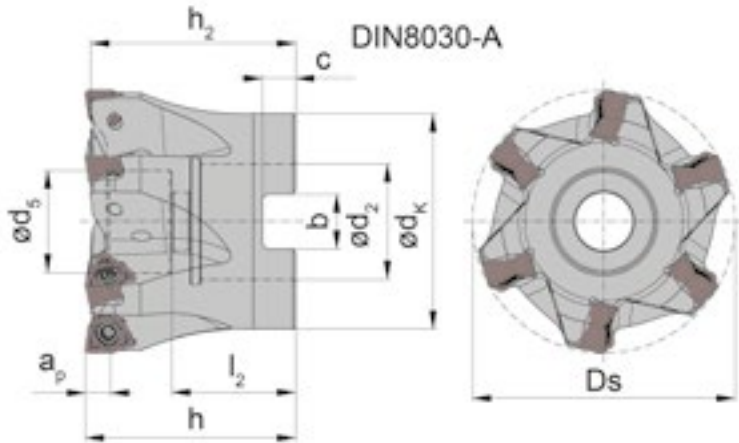
Part number	Z	Ds	ap	h ₂	h	d _s	d ₂	l ₂	b	C	d _k	HWS
DAMU32.015.A050.04	4	1.5	.189	1.252	1.378	.472	.5	.965	.258	.165	1.378	DA3232
DAMU32.020.A075.05	5	2	.189	1.449	1.575	.669	.75	.906	.32	.193	1.752	DA3232
DAMU32.025.A075.06	6	2.5	.189	1.449	1.575	.669	.75	.906	.32	.193	1.752	DA3232

Dimensions in inch

D2

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
DAMU32...	030.3576.T10P	T10PL



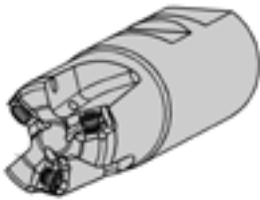
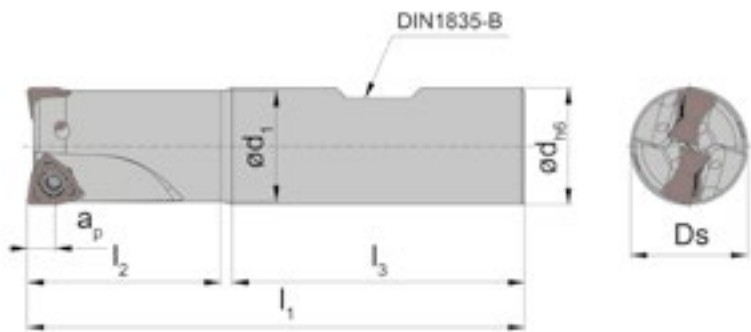
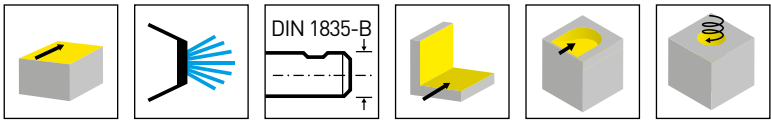
Picture = right hand cutting version

Part number	Z	Ds	ap	h	ds	d2	l2	b	C	dk	HWS
DAMU62.015.A050.05	5	1.5	.177	1.378	.472	.5	.945	.258	.165	1.378	DA6200
DAMU62.020.A075.06	6	2	.177	1.575	.669	.75	1.004	.32	.193	1.752	DA6200
DAMU62.025.A075.08	8	2.5	.177	1.575	.669	.75	1.004	.32	.193	1.752	DA6200
DAMU62.030.A100.10	10	3	.177	2	.866	1	1.299	.383	.224	2.382	DA6200

Dimensions in inch

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
DAMU62...	030.3070.T10P	T10PL



Picture = right hand cutting version

Part number	Z	Ds	d	l_1	l_2	d_1	l_3	HWS
DAMU62.075.D075.4.02B	2	.75	.75	3.346	1.315	.711	2.031	DA6200
DAMU62.100.D100.5.03B	3	1	1	3.843	1.559	.961	2.283	DA6200
DAMU62.125.D125.6.04B	4	1.25	1.25	4.276	1.992	1.211	2.283	DA6200

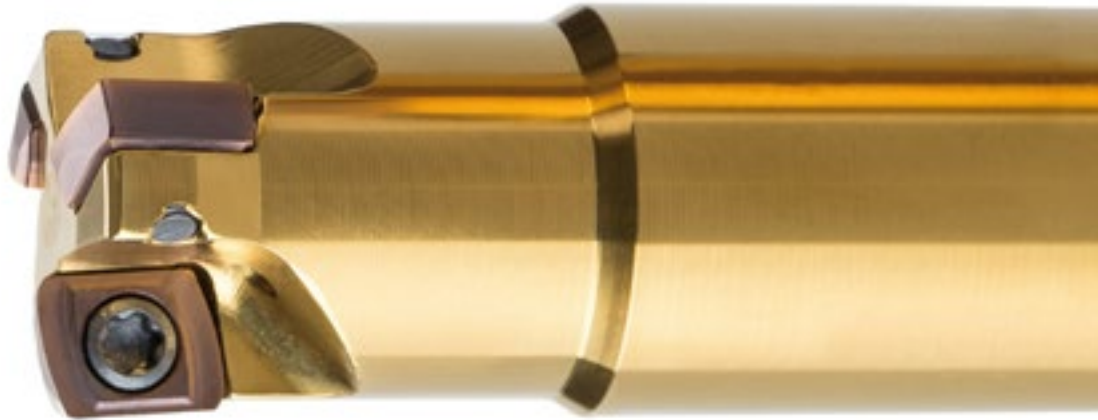
Dimensions in inch

D2

Spare Parts

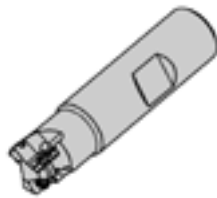
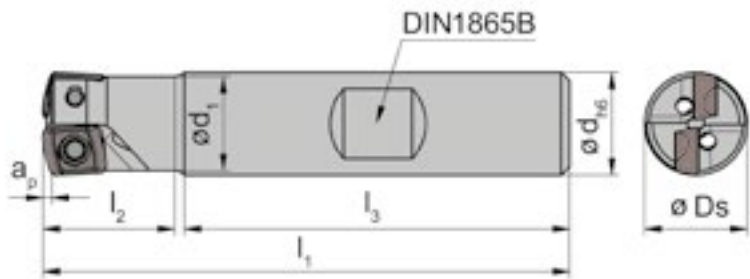
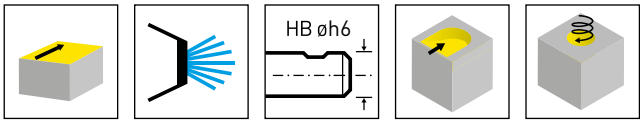
End Mill	Clamping Screw	TORX PLUS® Wrench
DAMU62...	030.3070.T10P	T10PL

DAH



D2

Toolholders and Inserts



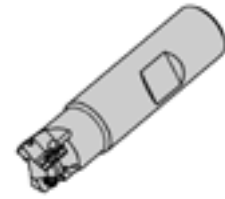
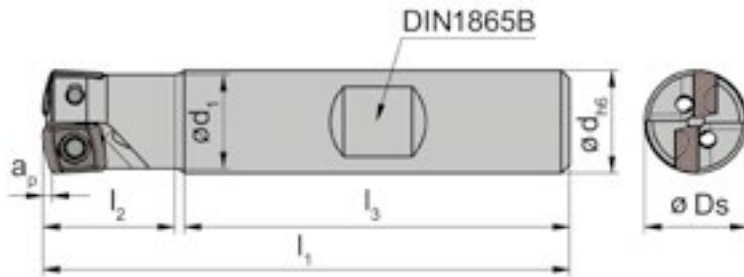
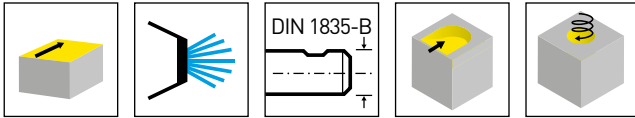
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAHMU.25.050.D050.2.02B	2	.5	.5	2.445	.591	.461	1.783	.039	DAH25
DAHMU.25.062.D062.3.03B	3	.625	.625	2.75	.787	.586	1.909	.039	DAH25

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAHMU.25.050.D050.2.02B	030.2547.T8P	T8PL
DAHMU.25.062.D062.3.03B	030.2553.T8P	T8PL



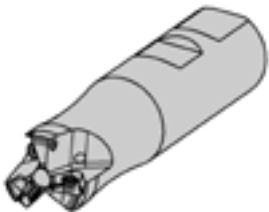
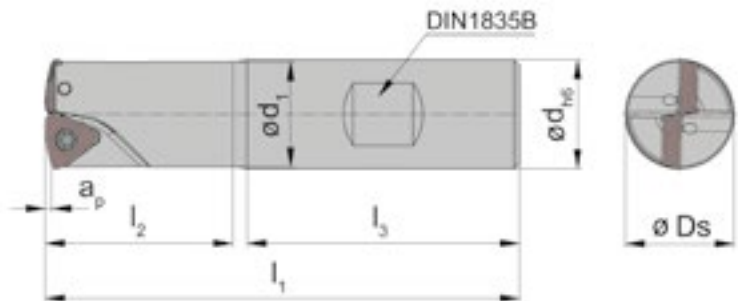
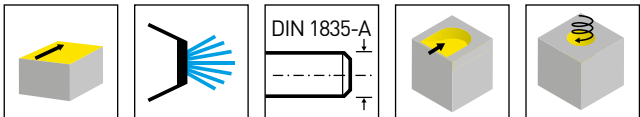
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAHMU.25.050.D050.4.02B	2	.5	.5	3.319	1.496	.461	1.783	.039	DAH25
DAHMU.25.062.D062.5.02B	2	.625	.625	3.839	1.89	.586	1.909	.039	DAH25
DAHMU.25.062.D062.5.03B	3	.625	.625	3.839	1.929	.586	1.909	.039	DAH25
DAHMU.25.075.D075.3.03B	3	.75	.75	3.024	.984	.671	2.031	.039	DAH25
DAHMU.25.075.D075.6.03B	3	.75	.75	4.339	2.283	.671	2.031	.039	DAH25
DAHMU.25.100.D100.4.04B	4	1	1	3.465	1.102	.921	2.283	.039	DAH25
DAHMU.25.100.D100.7.04B	4	1	1	5.354	2.953	.921	2.283	.039	DAH25

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAHMU.25.050.D050.4.02B	030.2547.T8P	T8PL
DAHMU.25...	030.2553.T8P	T8PL



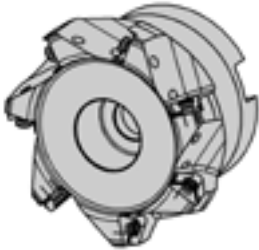
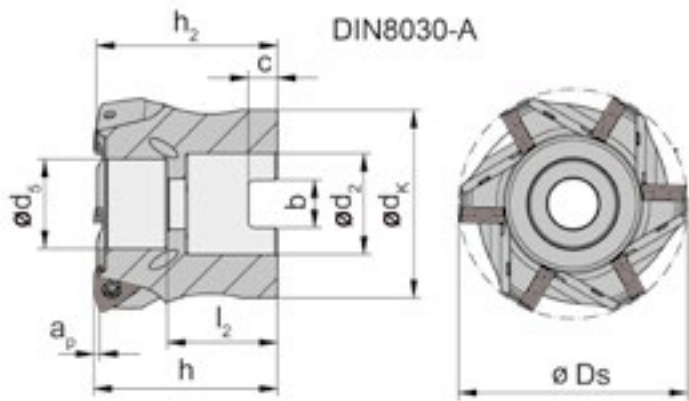
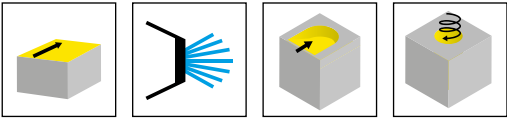
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	HWS
DAHMU.37.100.D100.5.03B	3	1	1	4.087	1.803	.961	2.283	.047	DAH37
DAHMU.37.125.D125.6.04B	4	1.25	1	4.276	1.992	1.211	2.283	.047	DAH37
DAHMU.37.150.D125.6.05B	5	1.5	1.25	4.276	1.992	1.461	2.283	.047	DAH37

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAHMU...	030.3070.T10P	T10PL



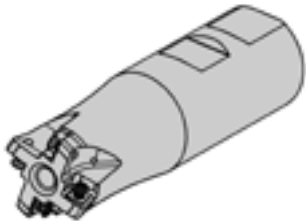
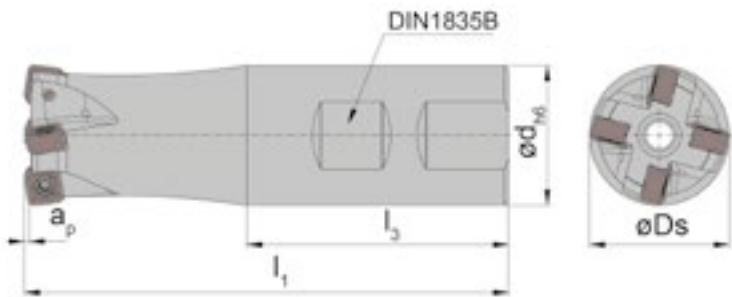
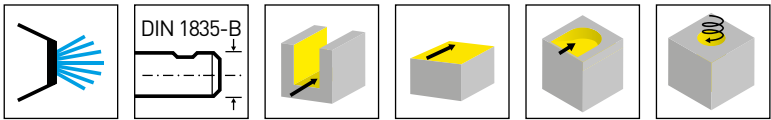
Picture = right hand cutting version

Part number	Z	Ds	ap	h ₂	h	d ₅	d _k	l ₂	b	C	d ₂	HWS
DAHMU.37.015.A050.05	5	1.5	.047	1.354	1.378	.472	1.378	.961	.258	.165	.5	DAH37
DAHMU.37.020.A075.06	6	2	.047	1.551	1.575	.669	1.752	1.043	.32	.193	.75	DAH37
DAHMU.37.025.A075.07	7	2.5	.047	1.551	1.575	.669	1.752	1.043	.32	.193	.75	DAH37
DAHMU.37.025.A100.07	7	2.5	.047	1.976	2	.866	2.382	1.327	.383	.224	1	DAH37
DAHMU.37.030.A100.08	8	3	.047	1.976	2	.866	2.382	1.327	.383	.224	1	DAH37

Dimensions in inch

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
DAHMU...	030.3070.T10P	T10PL



Picture = right hand cutting version

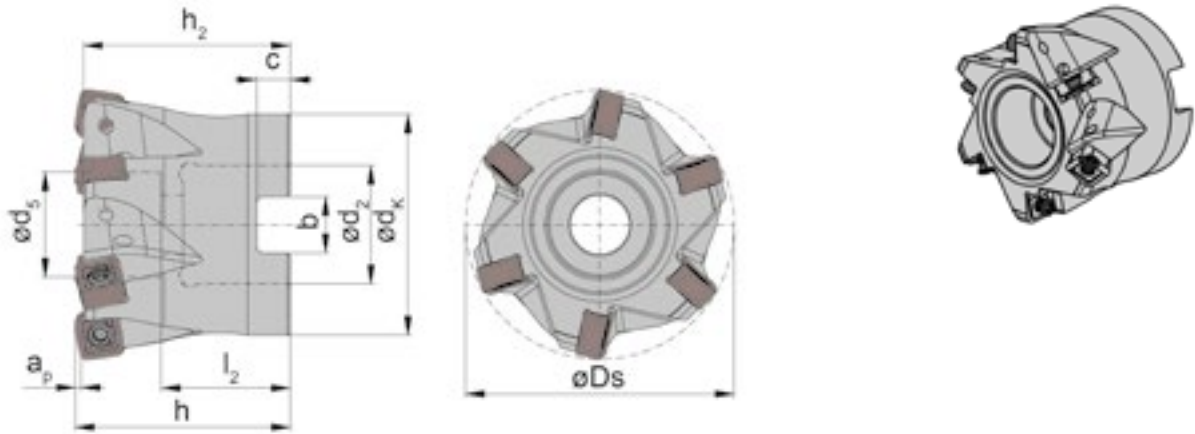
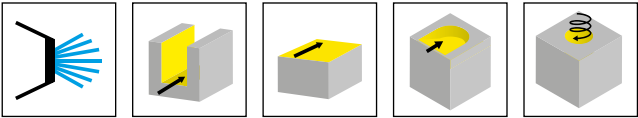
Part number	Z	Ds	d	l ₁	l ₃	a _p	n _{max}	HWS
DAHMU.82.100.D100.5.03B	3	1	1	4.087	2.283	.059	18500	DAH82
DAHMU.82.125.D125.6.04B	4	1.25	1.25	4.276	2.283	.059	16500	DAH82
DAHMU.82.150.D125.6.05B	5	1.5	1.25	4.276	2.283	.059	14500	DAH82

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
DAHMU...	030.3070.T10P	T10PL



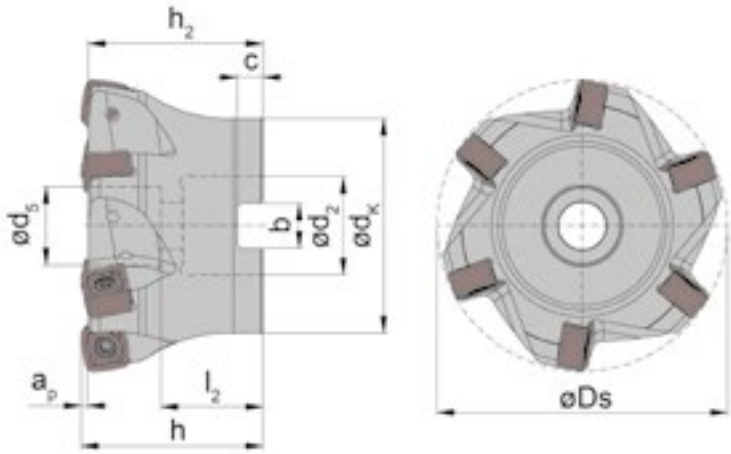
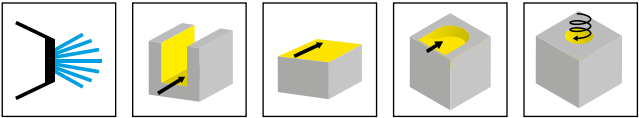
Picture = right hand cutting version

Part number	Z	Ds	ap	h2	h	d5	dK	l2	b	C	d2	nmax	HWS
DAHMU.82.015.A050.05	5	1.5	.039	1.319	1.378	.472	1.378	.965	.258	.165	.5	14500	DAH82
DAHMU.82.020.A075.06	6	2	.039	1.516	1.575	.669	1.752	1.043	.32	.193	.75	13000	DAH82

Dimensions in inch

Spare Parts

Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
DAHMU...	030.3070.T10P	T10PL



Picture = right hand cutting version

Part number	Z	Ds	ap	h ₂	h	ds	dk	l ₂	b	C	d ₂	n _{max}	HWS
DAHMU.84.020.A075.04	4	2	.059	1.496	1.575	.669	1.752	1.043	.32	.193	.75	8000	DAH84
DAHMU.84.025.A100.05	5	2.5	.059	1.921	2	.866	2.382	1.327	.383	.224	1	6500	DAH84
DAHMU.84.030.A100.06	6	3	.059	1.921	2	.866	2.382	1.327	.383	.224	1	5500	DAH84
DAHMU.84.040.A150.07	7	4	.059	2.421	2.5	1.22	3.799	1.555	.633	.382	1.5	5000	DAH84
DAHMU.84.050.A150.08	8	5	.059	2.421	2.5	1.22	3.799	1.555	.633	.382	1.5	4000	DAH84

Dimensions in inch

D2

Spare Parts

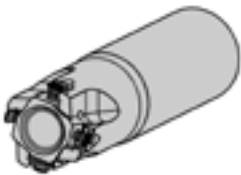
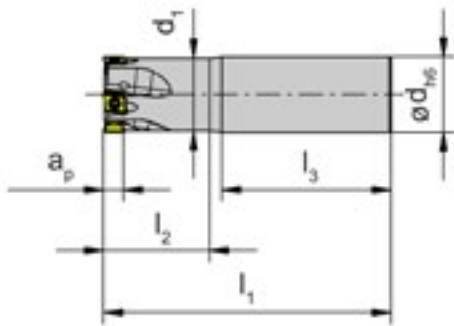
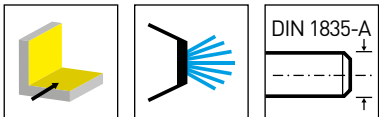
Arbour Mounted Cutter	Clamping Screw	TORX PLUS® Wrench
DAHMU...	030.0412.T15P	T15PQ

406



Toolholder and Inserts

D2



Picture = right hand cutting version

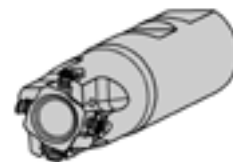
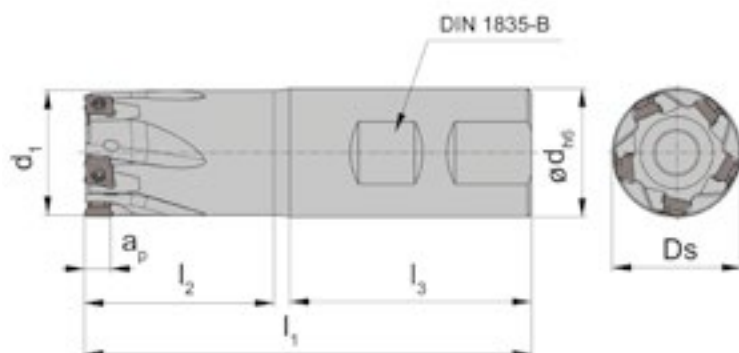
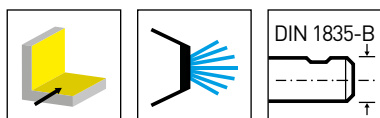
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	Form	n _{max}	HWS
MU406.062.D050.1.02A	2	.625	.5	2.126	.748	.586	1.378	.248	A	23800	40600R
MU406.062.D062.3.02A	2	.625	.625	3	.984	.586	2	.248	A	23800	40600R
MU406.075.D075.4.03A	3	.75	.75	3.5	1.496	.711	2	.248	A	21700	40600R
MU406.100.D100.5.04A	4	1	1	4	1.772	.961	2.2	.248	A	18800	40600R
MU406.125.D125.6.05A	5	1.25	1.25	4.5	1.969	1.211	2.5	.248	A	16800	40600R
MU406.150.D125.6.06A	6	1.5	1.25	4.5	1.969	1.461	2.5	.248	A	15300	40600R

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
MU406...02A - ...03A	030.2669.T8P	T8PL
MU406...04A - ...06A	030.2608.T8P	T8PL



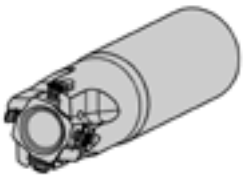
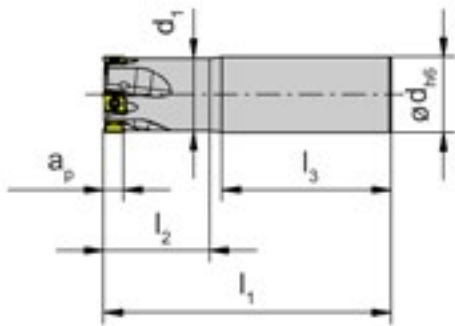
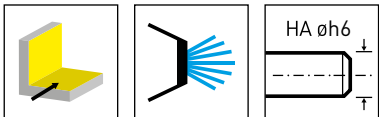
Picture = right hand cutting version

Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	Form	n _{max}	HWS
MU406.062.D062.3.02B	2	.625	.625	3	.984	.586	2	.248	B	23800	40600R
MU406.075.D075.4.03B	3	.75	.75	3.5	1.457	.711	2.031	.248	B	21700	40600R
MU406.100.D100.5.04B	4	1	1	4	1.693	.961	2.283	.248	B	18800	40600R
MU406.125.D125.6.05B	5	1.25	1.25	4.5	1.969	1.211	2.5	.248	B	16800	40600R
MU406.150.D125.6.06B	6	1.5	1.25	4.5	1.969	1.461	2.5	.248	B	15300	40600R

Dimensions in inch

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
MU406...02B - ...03B	030.2669.T8P	T8PL
MU406...04B - ...06B	030.2608.T8P	T8PL



Picture = right hand cutting version

Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	Form	n _{max}	HWS
MU406.075.D062.1.03A	3	.75	.625	2.126	.748	.711	1.378	.248	A	21700	40600R
MU406.100.D062.2.04A	4	1	.625	2.5	1.102	.961	1.378	.248	A	18800	40600R
MU406.100.D075.2.04A	4	1	.75	2.5	1.102	.961	1.378	.248	A	18800	40600R
MU406.125.D062.2.05A	5	1.25	.625	2.5	1.102	1.211	1.378	.248	A	16800	40600R
MU406.125.D075.2.05A	5	1.25	.75	2.5	1.102	1.211	1.378	.248	A	16800	40600R
MU406.150.D062.2.06A	6	1.5	.625	2.5	1.102	1.461	1.378	.248	A	15300	40600R
MU406.150.D075.2.06A	6	1.5	.75	2.5	1.102	1.461	1.378	.248	A	15300	40600R

Dimensions in inch

D2

Spare Parts

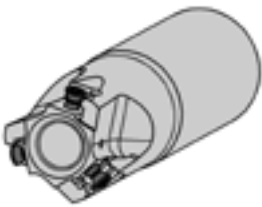
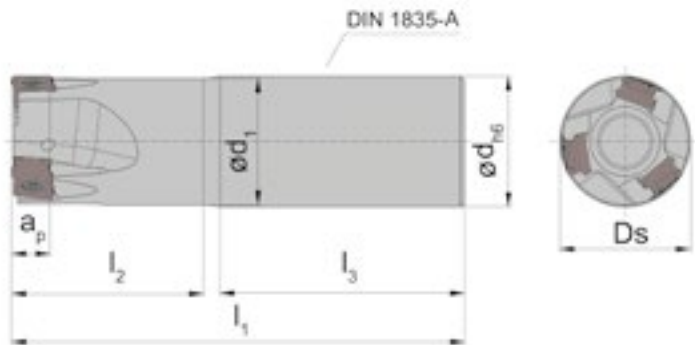
End Mill	Clamping Screw	TORX PLUS® Wrench
MU406.075.D062.1.03A	030.2669.T8P	T8PL
MU406....	030.2608.T8P	T8PL

409



Toolholder and Inserts

D2



Picture = right hand cutting version

Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	Form	n _{max}	HWS
MU409.125.D125.6.03A	3	1.25	1.25	4.5	2	1.211	2.5	.366	A	15600	40900R
MU409.125.D125.6.04A	4	1.25	1.25	4.5	2	1.211	2.5	.366	A	15600	40900R
MU409.150.D125.6.04A	4	1.5	1.25	4.5	2	1.461	2.5	.366	A	14300	40900R
MU409.150.D125.6.05A	5	1.5	1.25	4.5	2	1.461	2.5	.366	A	14300	40900R

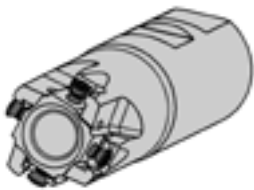
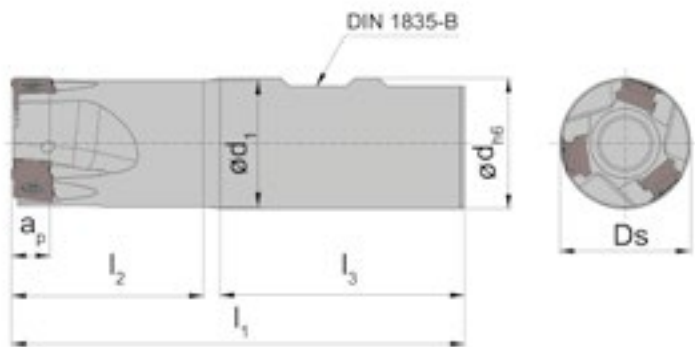
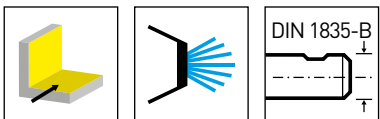
narrow pitch

Dimensions in inch

D2

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



Picture = right hand cutting version

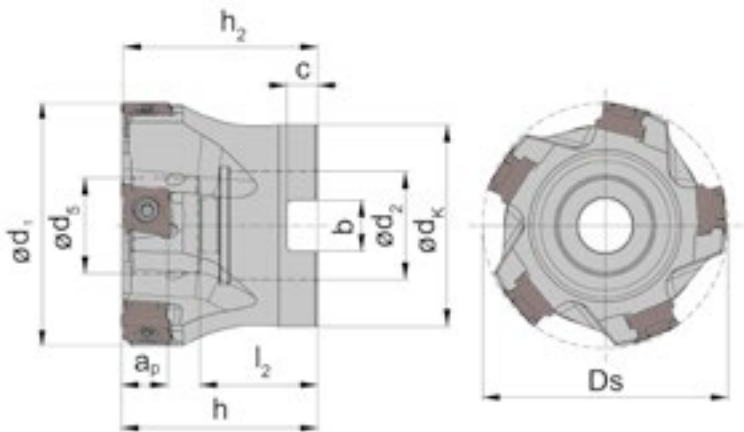
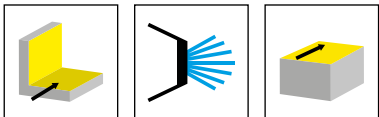
Part number	Z	Ds	d	l ₁	l ₂	d ₁	l ₃	a _p	Form	n _{max}	HWS
MU409.125.D125.6.03B	3	1.25	1.25	4.5	2	1.211	2.5	.366	B	15600	40900R
MU409.125.D125.6.04B	4	1.25	1.25	4.5	2	1.211	2.5	.366	B	15600	40900R
MU409.150.D125.6.04B	4	1.5	1.25	4.5	2	1.461	2.5	.366	B	14300	40900R
MU409.150.D125.6.05B	5	1.5	1.25	4.5	2	1.461	2.5	.366	B	14300	40900R

narrow pitch

Dimensions in inch

Spare Parts

End Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



Picture = right hand cutting version

Part number	Z	Ds	a _p	h ₂	h	d ₅	d ₁	d ₂	l ₂	b	C	d _K	n _{max}	HWS
MU409.015.A050.04	4	1.5	.366	1.358	1.378	.472	1.461	.5	.625	.258	.165	1.378	14300	40900R
MU409.020.A075.05	5	2	.366	1.555	1.575	.669	1.961	.75	1.043	.32	.193	1.752	12400	40900R
MU409.025.A075.06	6	2.5	.366	1.555	1.575	.669	2.461	.75	1.043	.32	.193	1.752	11000	40900R
MU409.025.A100.06	6	2.5	.366	1.555	1.575	.866	2.461	1	.965	.383	.224	2.382	11000	40900R
MU409.030.A125.07	7	3	.366	1.98	2	1.063	2.961	1.25	1.232	.508	.287	2.894	10100	40900R
MU409.040.A150.08	8	4	.366	2.48	2.5	1.22	3.961	1.5	1.614	.633	.382	3.799	8700	40900R
MU409.050.A150.10	10	5	.366	2.48	2.5	1.22	4.961	1.5	1.614	.633	.382	3.799	7800	40900R

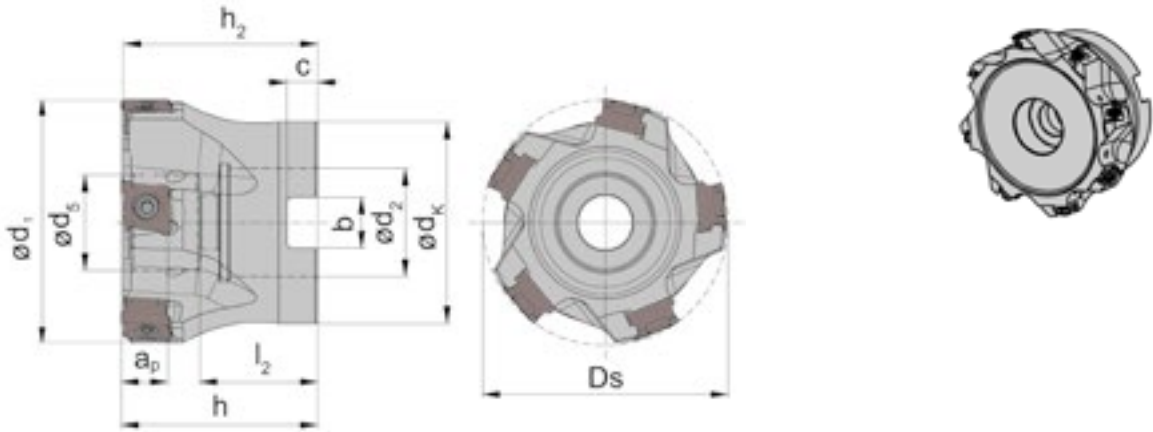
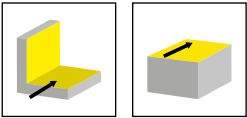
up to 3.94" arbour mounted cutter as per DIN 8030-A, 4.921" DIN8030-B, from 6.3" DIN 8030-C

from 6.3": availability and internal coolant upon customers request

Dimensions in inch

Spare Parts

Shoulder Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



Picture = right hand cutting version

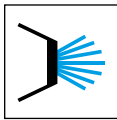
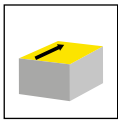
Part number	Z	Ds	ap	h2	h	d5	d1	d2	l2	b	C	dk	nmax	HWS
MU409.060.A200.14	14	6	.366	1.98	2	2.756	5.961	2	1.008	.758	.445	4.882	7100	40900R
MU409.080.A250.16	16	8	.366	2.48	2.5	1.024	7.961	2.5	1.22	1.008	.563	6	6200	40900R
MU409.100.A250.20	20	10	.366	2.48	2.5	1.024	9.961	2.5	1.22	1.008	.563	7.874	5500	40900R

up to $\varnothing$ 3.94" arbour mounted cutter as per DIN 8030-A, $\varnothing$ 4.921" DIN8030-B, from $\varnothing$ 6.3" DIN 8030-C

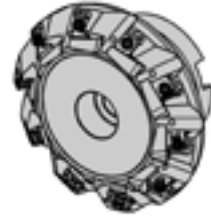
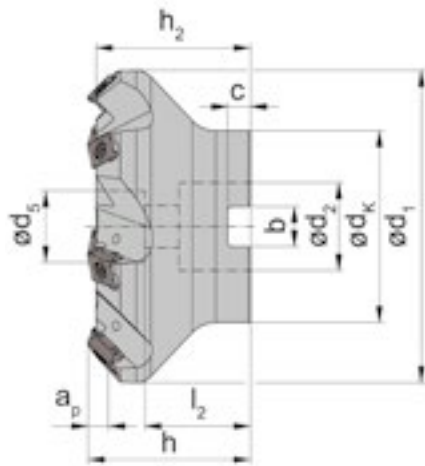
Dimensions in inch

Spare Parts

Shoulder Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



45°



Picture = right hand cutting version

Part number	Z	Ds	ap	h ₂	h	d ₅	d ₁	d ₂	l ₂	b	C	d _K	n _{max}	HWS
MU409.015.A050.45.04	4	1.5	.244	1.28	1.378	.472	2.091	.5	.965	.258	.165	1.378	14300	40900R
MU409.020.A075.45.05	5	2	.244	1.476	1.575	.669	2.63	.75	1.024	.32	.193	1.752	12400	40900R
MU409.025.A075.45.06	6	2.5	.244	1.476	1.575	.669	3.13	.75	1.024	.32	.193	1.752	11000	40900R
MU409.025.A100.45.06	6	2.5	.244	1.476	1.575	.866	3.13	1	.75	.383	.224	2.382	11000	40900R
MU409.030.A125.45.07	7	3	.244	1.902	2	1.063	3.63	1.25	1.22	.508	.287	2.894	10100	40900R
MU409.040.A150.45.08	8	4	.244	2.402	2.5	1.22	4.63	1.5	1.535	.633	.382	3.799	8700	40900R
MU409.050.A150.45.10	10	5	.244	2.402	2.5	1.22	5.63	1.5	1.535	.633	.382	3.799	7800	40900R

up to ø 3.94" arbour mounted cutter as per DIN 8030-A, ø 4.921" DIN8030-B, from ø 6.3" DIN 8030-C

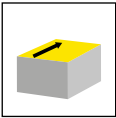
ap = 0.24" can be reached with rx = 0.03"

from Ø 6.3": availability and internal coolant upon customers request

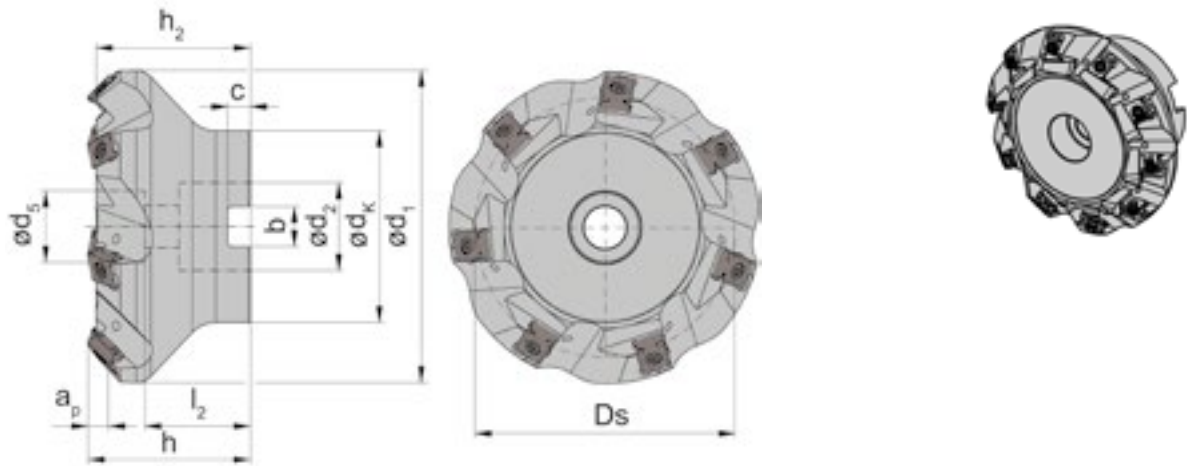
Dimensions in inch

Spare Parts

Face Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



45°



Picture = right hand cutting version

Part number	Z	Ds	ap	h2	h	d5	d1	d2	l2	b	C	dK	nmax	HWS
MU409.060.A200.45.14	14	6	.244	1.902	2	2.756	6.63	2	.894	.758	.445	4.882	7100	40900R
MU409.080.A250.45.16	16	8	.244	2.402	2.5	1.024	8.63	2.5	1.22	1.008	.563	6	6200	40900R
MU409.100.A250.45.20	20	10	.244	2.402	2.5	1.024	10.63	2.5	1.22	1.008	.563	7.874	5500	40900R

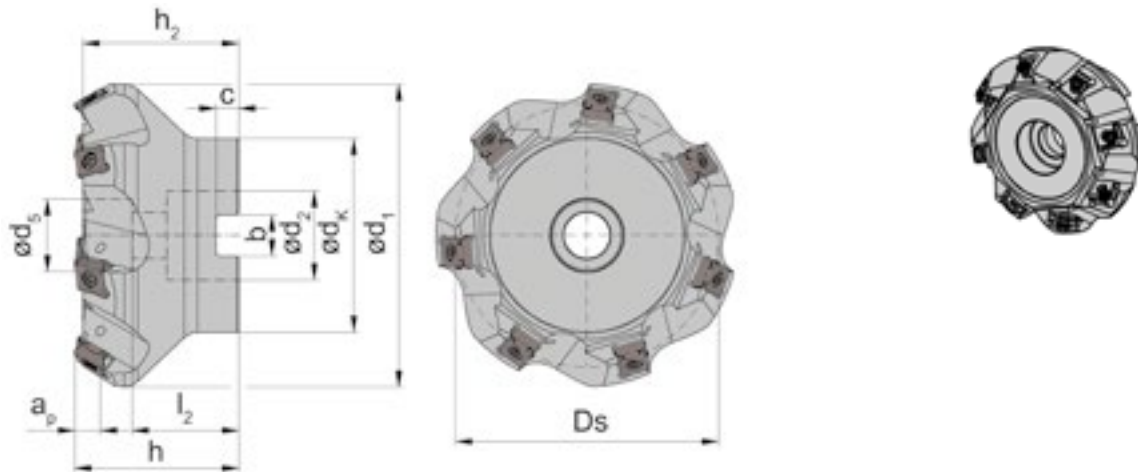
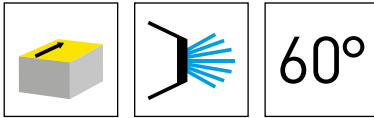
up to ø 3.94" arbour mounted cutter as per DIN 8030-A, ø 4.921" DIN8030-B, from ø 6.3" DIN 8030-C

ap = 0.24" can be reached with rx = 0.03"

Dimensions in inch

Spare Parts

Face Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



Picture = right hand cutting version

Part number	Z	Ds	ap	h ₂	h	d ₅	d ₁	d ₂	b	C	d _k	n _{max}	HWS
MU409.015.A050.60.04	4	1.5	.303	1.28	1.378	.472	1.972	.5	.258	.165	1.378	14300	40900R
MU409.020.A075.60.05	5	2	.303	1.476	1.575	.669	2.472	.75	.32	.193	1.752	12400	40900R
MU409.025.A075.60.06	6	2.5	.303	1.476	1.575	.669	2.972	.75	.32	.193	1.752	11000	40900R
MU409.025.A100.60.06	6	2.5	.303	1.476	1.575	.866	2.972	1	.383	.224	2.382	11000	40900R
MU409.030.A125.60.07	7	3	.303	1.902	2	1.063	3.472	1.25	.508	.287	2.894	10100	40900R
MU409.040.A150.60.08	8	4	.303	2.48	2.5	1.22	4.472	1.5	.633	.382	3.799	8700	40900R
MU409.050.A150.60.10	10	5	.303	2.402	2.5	1.22	5.472	1.5	.633	.382	3.799	7800	40900R

up to ø 3.94" arbour mounted cutter as per DIN 8030-A, ø 4.921" DIN8030-B, from ø 6.3" DIN 8030-C

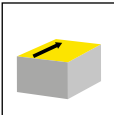
ap = 0.303" can be reached with rx = 0.031"

from ø 6.3": availability and internal coolant upon customers request

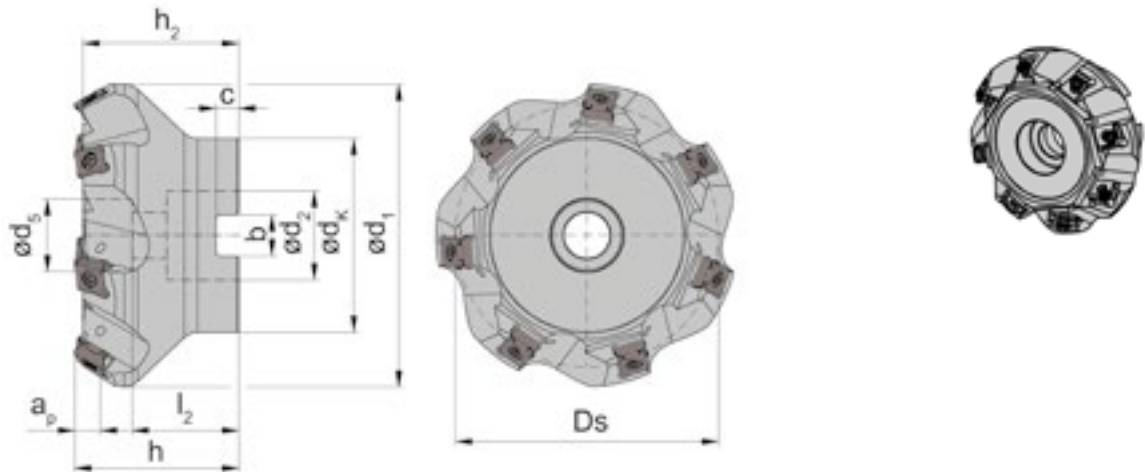
Dimensions in inch

Spare Parts

Face Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



60°



Picture = right hand cutting version

Part number	Z	Ds	ap	h2	h	d5	d1	d2	b	C	dk	nmax	HWS
MU409.060.A200.60.14	14	6	.303	1.921	2	2.756	6.472	2	.758	.445	4.882	7100	40900R
MU409.080.A250.60.16	16	8	.303	2.402	2.5	1.024	8.472	2.5	1.008	.563	6	6200	40900R
MU409.100.A250.60.20	20	10	.303	2.402	2.5	1.024	10.472	2.5	1.008	.563	7.874	5500	40900R

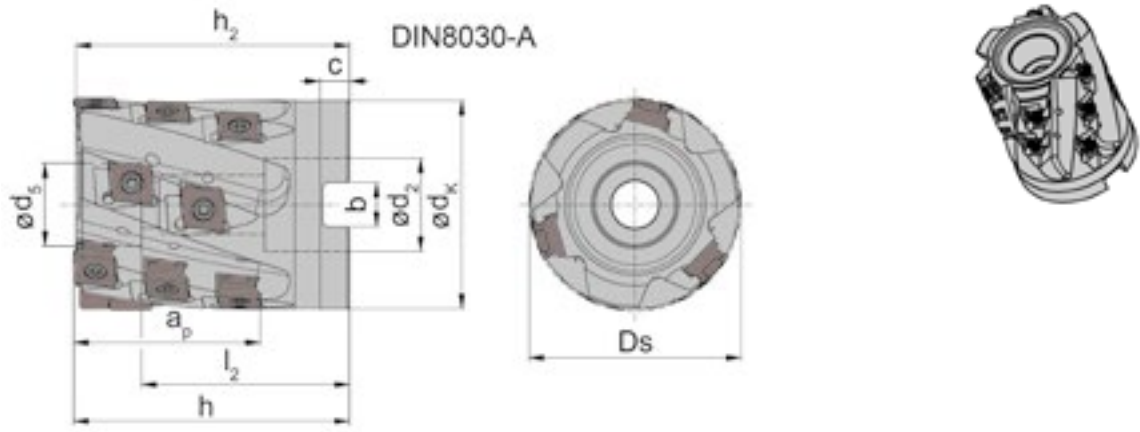
up to ø 3.94" arbour mounted cutter as per DIN 8030-A, ø 4.921" DIN8030-B, from ø 6.3" DIN 8030-C

ap = 0.303" can be reached with rx = 0.031"

Dimensions in inch

Spare Parts

Face Mill	Clamping Screw	TORX PLUS® Wrench
MU409...	030.3511.T10P	T10PL



Picture = right hand cutting version

Part number	Z	Z _{eff}	D _s	a _p	h ₂	h	d ₅	d ₂	l ₂	b	C	d _K	n _{max}	HWS
MU409.015.A075.SEM.10	10	2	1.5	1.7	2.48	2.5	.669	.75	2.008	.32	.193	1.461	14300	40900R
MU409.020.A075.SEM.15	15	3	2	1.7	2.48	2.5	.669	.75	2.008	.32	.193	1.969	12400	40900R
MU409.025.A100.SEM.20	20	4	2.5	1.7	2.48	2.5	.866	1	1.909	.383	.224	2.402	11000	40900R

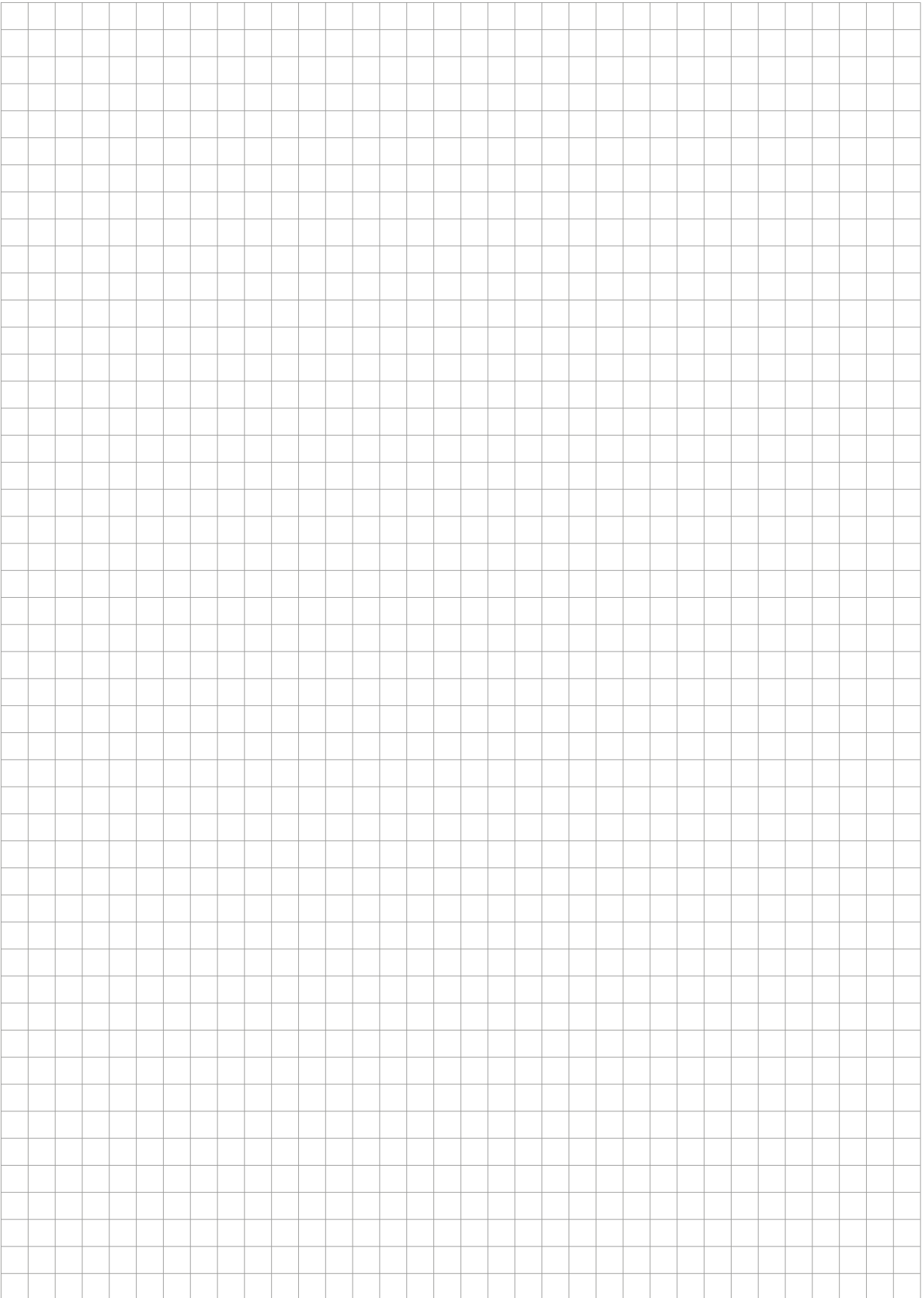
Indexable insert R409.093.U.08 is preferred to use.

Dimensions in inch

D2

Spare Parts

Shell End Mill	TORX PLUS® Wrench	Clamping Screw
MU409.015.A075.SEM.10	T10PL	
MU409.0...	T10PL	030.3511.T10P





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