HORN



SUPERMINI UND MINI INNENBEARBEITUNG

SUPERMINI AND MINI INTERNAL MACHINING

2023/2024



ERLEBEN SIE HORN
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.

Lothar Horn
Geschäftsführer
Paul Horn GmbH

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.

Lothar Horn
CEO
Paul Horn GmbH

Markus Horn
CEO
Paul Horn GmbH

Matthias Rommel
CEO
Paul Horn GmbH

Inhaltsverzeichnis / Index

A **Supermini System 105**
Ausdrehen, Einstechen, Fasen, Gewindedrehen, Axialeinstechen
Boring, Grooving, Chamfering, Threading, Face Grooving

B **Supermini System 109**
Ausdrehen, Einstechen, Fasen, Gewindedrehen, Axialeinstechen
Boring, Grooving, Chamfering, Threading, Face Grooving

C **Supermini System 110**
Ausdrehen, Einstechen, Axialeinstechen
Boring, Grooving, Face Grooving

D **Mini System 106**
Ausdrehen, Einstechen, Fasen
Boring, Grooving, Chamfering

E **Mini System 107**
Ausdrehen, Einstechen, Fasen, Gewindedrehen
Boring, Grooving, Chamfering, Threading

F **Mini System 108**
Ausdrehen, Einstechen, Fasen, Gewindedrehen
Boring, Grooving, Chamfering, Threading

G **Mini System 10P**
Ausdrehen, Einstechen
Boring, Grooving

H **Mini System 111**
Ausdrehen, Einstechen, Fasen, Gewindedrehen
Boring, Grooving, Chamfering, Threading

I **Mini System 11P**
Ausdrehen, Einstechen
Boring, Grooving

J **Mini System 114**
Ausdrehen, Einstechen, Fasen, Gewindedrehen, Axialeinstechen
Boring, Grooving, Chamfering, Threading, Face Grooving

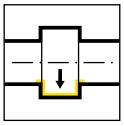
K **Mini System 116**
Ausdrehen, Einstechen, Fasen, Gewindedrehen
Boring, Grooving, Chamfering, Threading

L **Mini System 18P**
Ausdrehen, Einstechen
Boring, Grooving

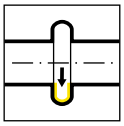
M **Technische Hinweise, Anwendungsbeispiele, Zubehör**
Technical Instructions, Examples for machining, Additional equipment

INDEX

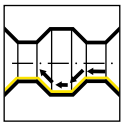
Übersicht Anwendungen
Overview Application



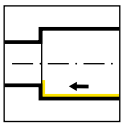
Einstechen innen
Internal grooving



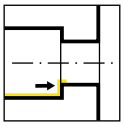
Einstechen innen Vollradius
Internal grooving full radius



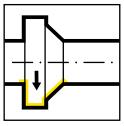
Drehen innen Fase
Internal boring and grooving chamfer



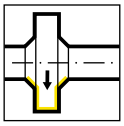
Bohrung Ausdrehen
Internal boring



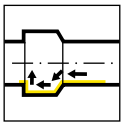
Rückwärtsdrehen innen
Internal back turning



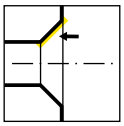
Vorstechen und Fasen innen
Internal pre-grooving and chamfering



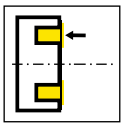
Einstechen mit Fase innen
Internal grooving with chamfer



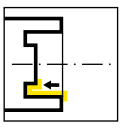
Bohrung Kontur Ausdrehen
Boring and profiling



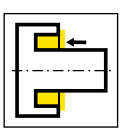
Fasen innen
Internal chamfering



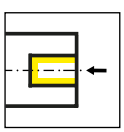
Axialstechen
Face grooving



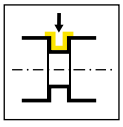
Axialstechen innen vor Mitte
Internal axial grooving in front of center



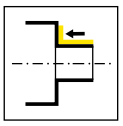
Axialstechen mit Bund
Axial grooving with collar



Bohren ins Volle
Boring into solid



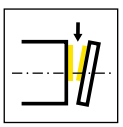
Einstechen außen
External grooving



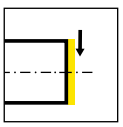
Längsdrehen außen
External side turning



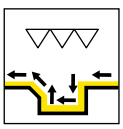
Kopierdrehen außen
External copy turning



Abstechen
Parting off



Plandrehen
Face turning



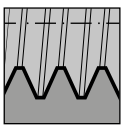
Feindrehen
Fine turning



Gewinde Teilprofil
Partial profile thread



Gewinde Vollprofil
Full profile thread



Gewinde innen
Internal thread



Whitworth-Rohrgewinde BSW/BSF
Whitworth pipe thread BSW/BSF



National pipe thread

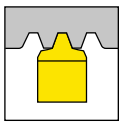


Gewinde metrisch
Metric ISO thread

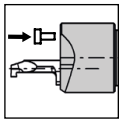


Unified-Gewinde
Unified thread

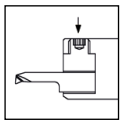
Übersicht Anwendungen
Overview Application



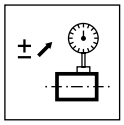
Trapezgewinde
Trapezoidal thread



Stirnspannelement
Face clamping



Abhebeelement
Lift element



Einrichten
Setup



Geometrie D
Geometry D



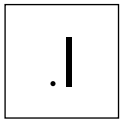
Geometrie FB
Geometry FB



Geometrie H
Geometry H



Geometrie HV
Geometry HV



Geometrie I
Geometry I



Geometrie R
Geometry R

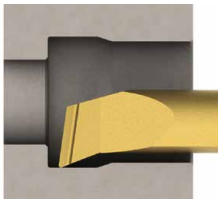
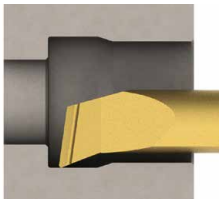
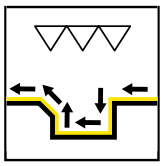
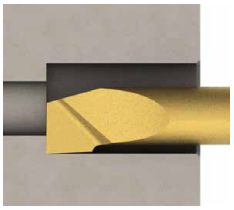


Geometrie GM - Gewindedrehen
Geometry GM - Threading



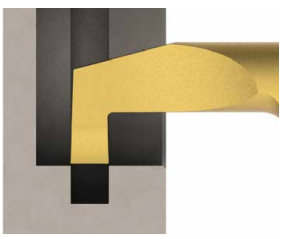
Innenkühlung
Internal coolant

Geometrien und Vorschübe - Supermini
Geometries and feed rates - Supermini

Geometrie Geometry	Werkstoff Material	Vorschubbereich f [mm/U] Feed rate f [mm/rev]	Bearbeitung Machining
.H	P M K N S H	f = 0,04-0,06 ap = 0,15-0,5 mm	
.HV	P M K N S H	f = 0,05-0,1 ap = 0,15-0,5 mm	
.FB	P M K N S H	f = 0,01-0,04 ap = 0,03-0,05 mm	
	P M K N S H	f = 0,005-0,015 ap = 0,01-0,05 mm	

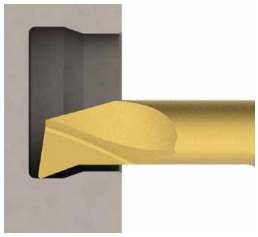
Vorschubbereich f [mm/U]
Feed rate f [mm/rev]

f = 0,01-0,03



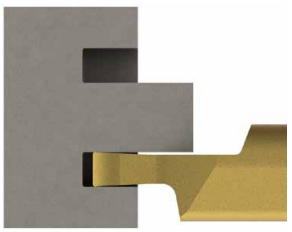
Einstechen
Grooving

f = 0,02-0,05
ap = 0,15-0,5 mm



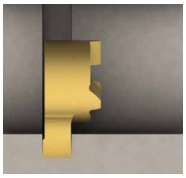
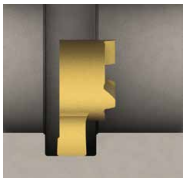
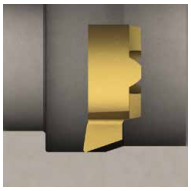
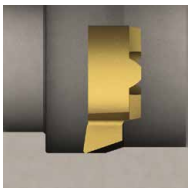
Längsdrehen
Side Turning

f = 0,02-0,05



Axialeinstechen
Face Grooving

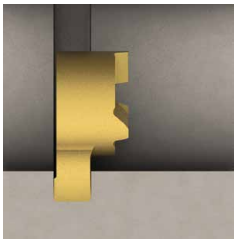
Geometrien und Vorschübe - Mini
Geometries and feed rates - Mini

Geometrie Geometry	Werkstoff Material	Vorschubbereich f [mm/U] Feed rate f [mm/rev]	Bearbeitung Machining
.D	P M K N S H	f = 0,03-0,08 ap = 0,2-1,5*	
.FB	P M K N S H	f = 0,015-0,05 ap = 0,03-0,07*	
.I	P M K N S H	f = 0,05-0,15 ap = 0,05-0,35	
.R	P M K N S H	f = 0,05-0,15 ap = 0,2-1,75*	

*Systemabhängig / System dependent

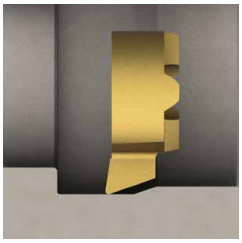
Vorschubbereich f [mm/U]
Feed rate f [mm/rev]

f = 0,01-0,05



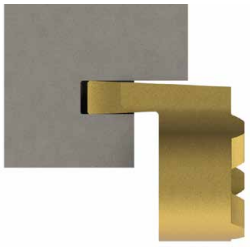
Einstechen
Grooving

f = 0,03-0,1
ap = 0,1-0,5 mm



Längsdrehen
Side Turning

f = 0,01-0,08



Axialeinstechen
Face Grooving

- Alle Abmessungen sind in mm angegeben, sofern nicht anders vermerkt.
  All dimensions are in mm unless otherwise noted.
- Weitere Abmessungen und Ausführungen sind auf Anfrage erhältlich.
  Further dimensions and versions are available on request.
- Das Anzugsmoment der Schrauben finden Sie im Kapitel "Technische Hinweise".
  For torque specification of the screw, please see "Technical Instructions".
- Alle Klemmhalter der Systeme "Mini" können von unserem Reparaturservice instandgesetzt werden.
  All toolholders of the systems "Mini" with damaged seating can be repaired by HORN.
- Lieferzeiten / Delivery times
  - ▲ ab Lager / on stock
  - Δ 4 Wochen / 4 weeks
- Einsatz für Werkstoffgruppen / Use for material groups
  - ● empfohlen / recommended
  - o bedingt einsetzbar / alternative recommended
  - - nicht geeignet / not suitable

Die HORN-Trennstellencodierung - wofür wird sie benötigt?

Die Trennstellencodierung stellt sicher, dass Sie immer die zueinander passenden Werkzeuge finden und wird bei Werkzeughaltern und bei Schneidplatten ausgewiesen. Wenn die Codes übereinstimmen, kann die Schneidplatte im entsprechenden Werkzeughalter verwendet werden.
Das gilt auch für unser modulares Haltersystem, hier gibt die Trennstellencodierung die Schnittstelle zwischen Grundhalter und Kassette an.

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-Trennstellencodes und mögliche Kombinationen:
HORN connection interface codes and possible combinations:

HIS = Plattensitzgröße / Insert seat
HWS = Trennstelle Werkstückseitig / Interface workpiece side
HMS = Trennstelle Maschinenseitig / Interface machine side

HIS	⟷	**HWS**
HMS	⟷	**HWS**

Beispiel Schneidplatte
Example insert

Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.1828.1.6	0,2	2,8	5,7	5	10	28	0,4	6	109140	Δ

Beispiel Klemmhalter
Example toolholder

Bestellnummer Part number	d	l_1	h	l_4	l_2	d_2	HWS
B109.0012.01	12	75	10	50	16	20	109140

105

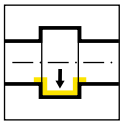


Klemmhalter und Schneidplatten

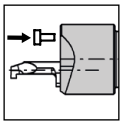
Toolholder and Inserts

Supermini
Supermini

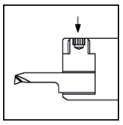
Klemmhalter
Toolholder
B105/BU105/H105/
HC105/962/963/AIH/
HF.N/VDI/B105C/
B105TS/WFB.105



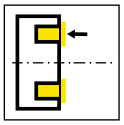
Seite/Page
15-17,24-30,
33-40,64-71, 73,
134-135



Seite/Page
19-22

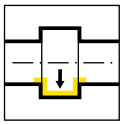


Seite/Page
23

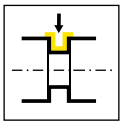


Seite/Page
139

Grundhalter Graf
Basic toolholder Graf
IR105/G

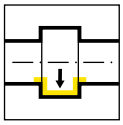


Seite/Page
31



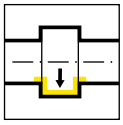
Seite/Page
51

Einbauhalter Graf
Cartridge Graf
IR105

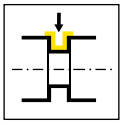


Seite/Page
32

Grundhalter
Basic toolholder
HC105/L760/BGT

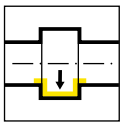


Seite/Page
41, 44-45, 47-48



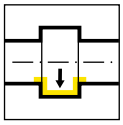
Seite/Page
42

Kassette
Cassette
KC760



Seite/Page
43

Einstellbare Halter
Adjustable holder
BKT/N



Seite/Page
46, 49-50, 54-60

Zwischenstück Graf
Adaptor Graf
Z

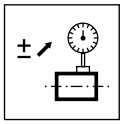


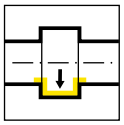
Seite/Page
52-53

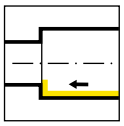
Ersatzteile und Zubehör
Spare Parts and Additional Equipment

Seite/Page
61

Technische Hinweise
Technical Instructions
Seite/Page 62

Höheneinstellvorrichtung
Device for height adjusting
HVR.40

Seite/Page 63

Bohrstangen-Aufnahme
Adaptor for boring bars
001C

Seite/Page 72

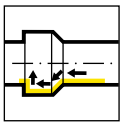
Schneidplatte
Insert
105/A105

Seite/Page 74-85, 92-95, 99-100, 133, 136

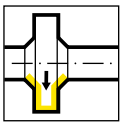


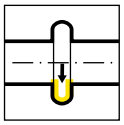
Seite/Page 86-87

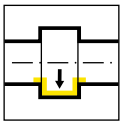


Seite/Page 88-91


Seite/Page 96-98

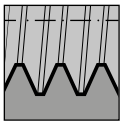

Seite/Page 101

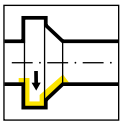

Seite/Page 102-104

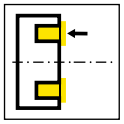

Seite/Page 105-113

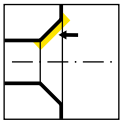


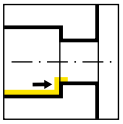
Seite/Page 114

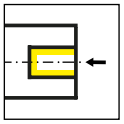

Seite/Page 115-124

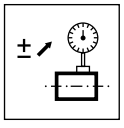

Seite/Page 125


Seite/Page 126-130, 140-141


Seite/Page 131


Seite/Page 132


Seite/Page 142-143

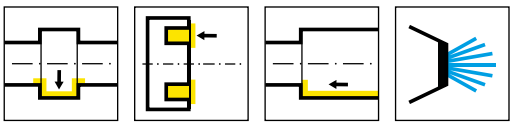
Platte
Insert
105

Seite/Page 137-138

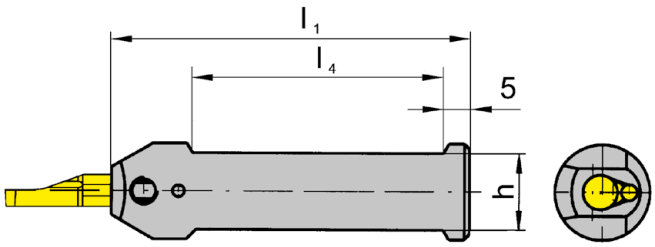
HCG - HORN Catalogue Guide

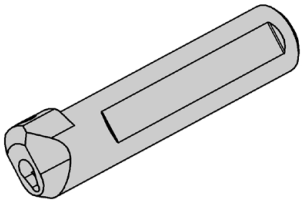
Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

Klemmhalter
Toolholder

B105







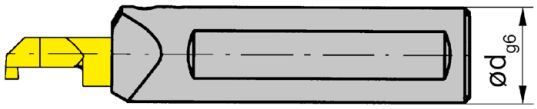


Abbildung = rechtsschneidend
Picture = right hand cutting version

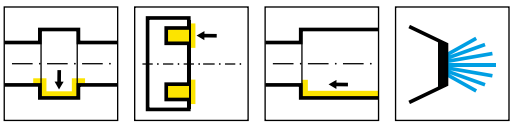
Bestellnummer Part number	d	l_1	h	l_4	HWS
B105.0010.01	10	75	9	50	105123 • 105124 • 105125
B105.0012.01	12	75	11	50	105123 • 105124 • 105125
B105.0016.01	16	75	14	50	105123 • 105124 • 105125
B105.0020.01	20	90	18	55	105123 • 105124 • 105125
B105.0022.01	22	90	20	55	105123 • 105124 • 105125
B105.0025.01	25	100	23	55	105123 • 105124 • 105125
B105.0028.01	28	120	26	72	105123 • 105124 • 105125

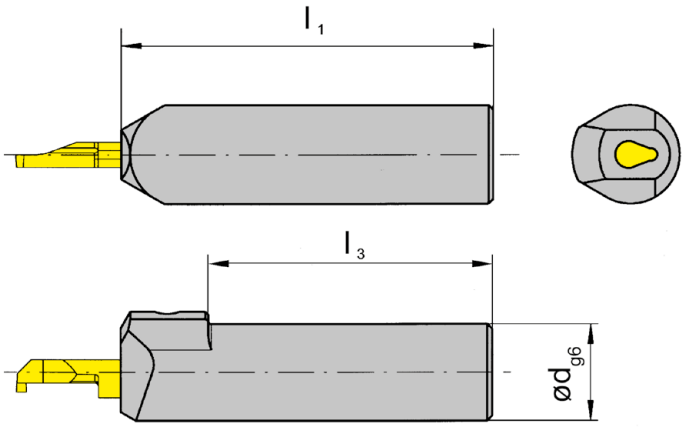
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





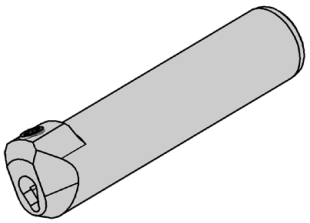


Abbildung = rechtsschneidend
Picture = right hand cutting version

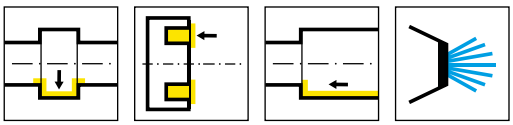
Bestellnummer Part number	d	l_1	l_3	HWS
B105.0010.01A	10	75	57	105123 • 105124 • 105125
B105.0012.01A	12	75	63	105123 • 105124 • 105125
B105.0016.01A	16	75	63	105123 • 105124 • 105125

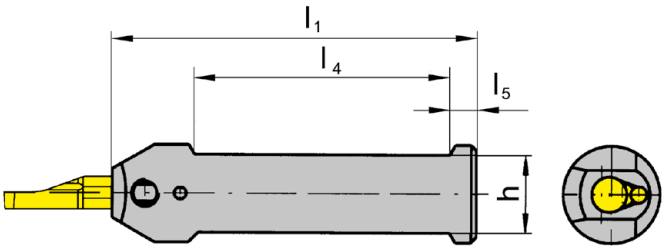
Ersatzteile
Spare Parts

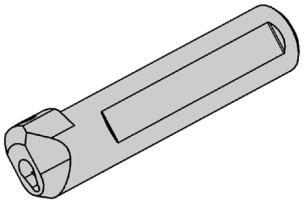
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

BU105







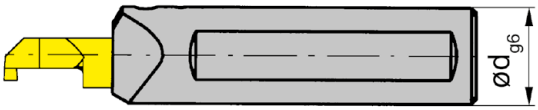


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	h	l_4	l_5	HWS
BU105.0750.5.01	3/4"	90	17,04	70	5	105123 • 105124 • 105125
BU105.0750.5.3.01	3/4"	152,5	17,05	70	5	105123 • 105124 • 105125
BU105.1000.5.01	1"	90	23,4	65	5	105123 • 105124 • 105125
BU105.1000.5.3.01	1"	152,5	23,4	70	5	105123 • 105124 • 105125

Abmessungen in inch und mm
Dimensions in inch and mm

Kühlmittelanschluss M12x1,5 für Traub Maschinen
Der Kühlmittelanschluss gehört nicht zum Lieferumfang.
Adapter of cooling M12x1,5 for Traub machines
Coolant supply is not included.

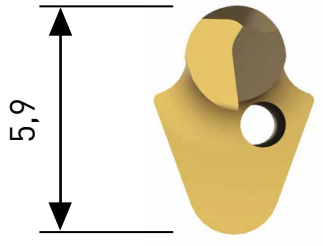
Ersatzteile
Spare Parts

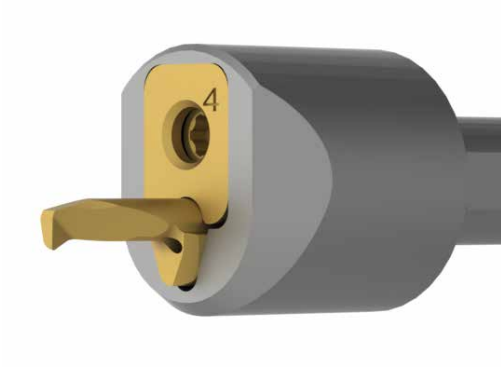
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BU105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

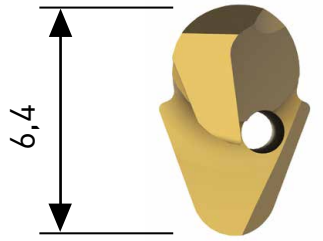


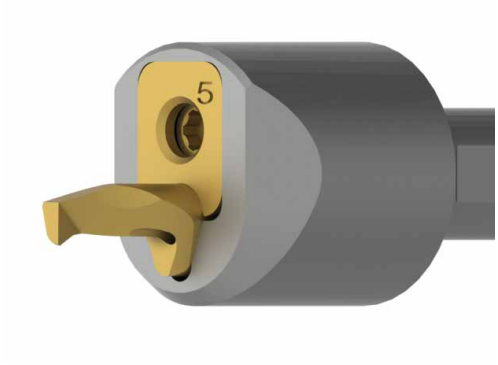
Größe 3 (HWS = 105123)
Size 3



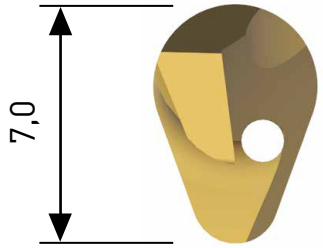


Größe 4 (HWS = 105124)
Size 4



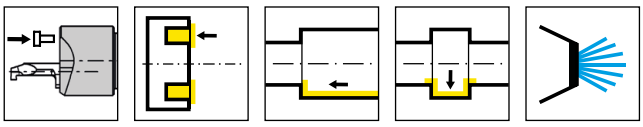


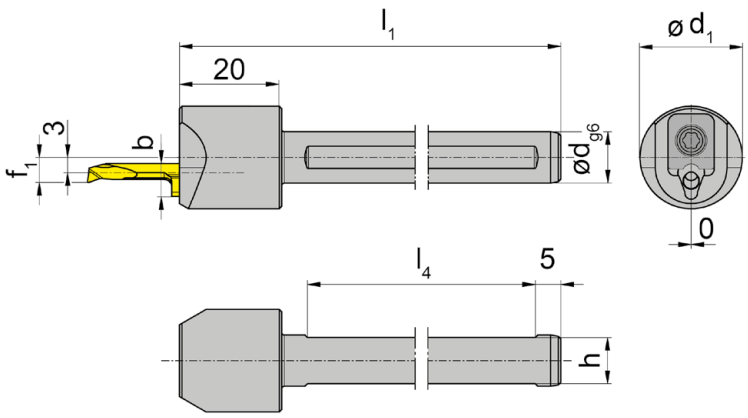
Größe 5 (HWS = 105125)
Size 5



Klemmhalter
Toolholder

B105





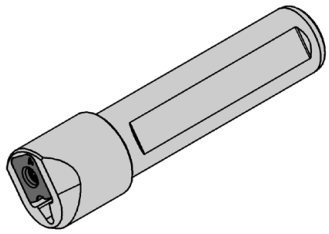


Abbildung = rechtsschneidend
Picture = right hand cutting version

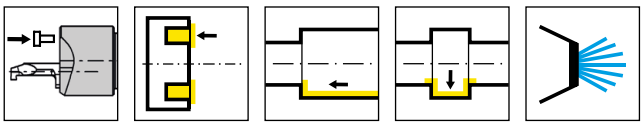
Bestellnummer Part number	d	l_1	h	l_4	f_1	d_1	b	HWS
B105.0010.S.03	10	80	9	50	4,3	20	5,9	105123
B105.0012.S.03	12	80	11	50	4,3	20	5,9	105123
B105.0016.S.03	16	80	14	50	4,3	20	5,9	105123
B105.0020.S.03	20	90	18	55	4,3	20	5,9	105123
B105.0022.S.03	22	90	20	55	4,3	22	5,9	105123
B105.0025.S.03	25	100	23	55	4,3	25	5,9	105123
B105.0028.S.03	28	120	26	55	4,3	28	5,9	105123
B105.0010.S.04	10	80	9	50	4,9	20	6,4	105124
B105.0012.S.04	12	80	11	50	4,9	20	6,4	105124
B105.0016.S.04	16	80	14	50	4,9	20	6,4	105124
B105.0020.S.04	20	90	18	55	4,9	20	6,4	105124
B105.0022.S.04	22	90	20	55	4,9	22	6,4	105124
B105.0025.S.04	25	100	23	55	4,9	25	6,4	105124
B105.0028.S.04	28	120	26	55	4,9	28	6,4	105124
B105.0010.S.05	10	80	9	50	6,3	20	7	105125
B105.0012.S.05	12	80	11	50	6,3	20	7	105125
B105.0016.S.05	16	80	14	50	6,3	20	7	105125
B105.0020.S.05	20	90	18	55	6,3	20	7	105125
B105.0022.S.05	22	90	20	55	6,3	22	7	105125
B105.0025.S.05	25	100	23	55	6,3	25	7	105125
B105.0028.S.05	28	120	26	55	6,3	28	7	105125

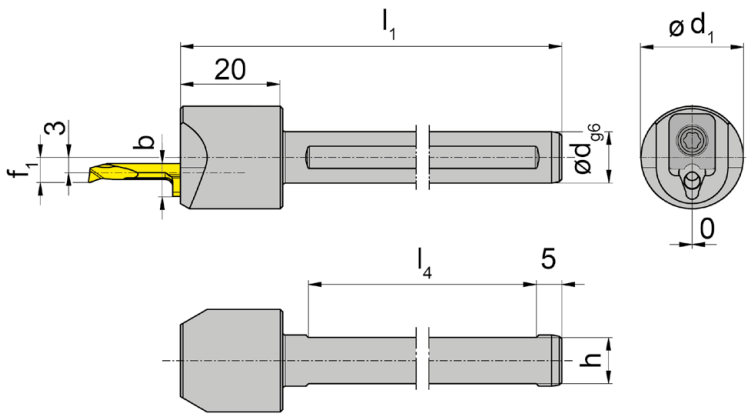
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0...03	**010.0105.03**	**T15PL**
B105.0...04	**010.0105.04**	**T15PL**
B105.0...05	**010.0105.05**	**T15PL**

Klemmhalter
Toolholder

BU105





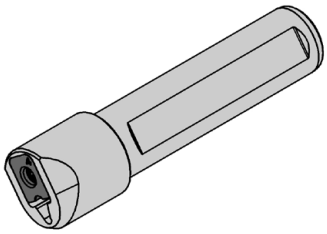


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	h	l_4	f_1	d_1	b	HWS
BU105.0500.S.03	1/2"	80	10,7	50	4,3	20	5,9	105123
BU105.0625.S.03	5/8"	80	13,87	50	4,3	20	5,9	105123
BU105.0750.S.03	3/4"	90	17,05	55	4,3	3/4"	5,9	105123
BU105.1000.S.03	1"	90	23,4	55	4,3	1"	5,9	105123
BU105.0500.S.04	1/2"	80	10,7	50	4,9	20	6,4	105124
BU105.0625.S.04	5/8"	80	13,87	50	4,9	20	6,4	105124
BU105.0750.S.04	3/4"	90	17,05	55	4,9	3/4"	6,4	105124
BU105.1000.S.04	1"	90	23,4	55	4,9	1"	6,4	105124
BU105.0500.S.05	1/2"	80	10,7	50	6,3	20	7	105125
BU105.0625.S.05	5/8"	80	13,87	50	6,3	20	7	105125
BU105.0750.S.05	3/4"	90	17,05	55	6,3	3/4"	7	105125
BU105.1000.S.05	1"	90	23,4	55	6,3	1"	7	105125

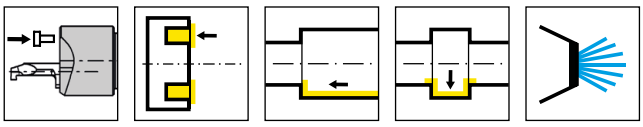
Abmessungen in inch und mm
Dimensions in inch and mm

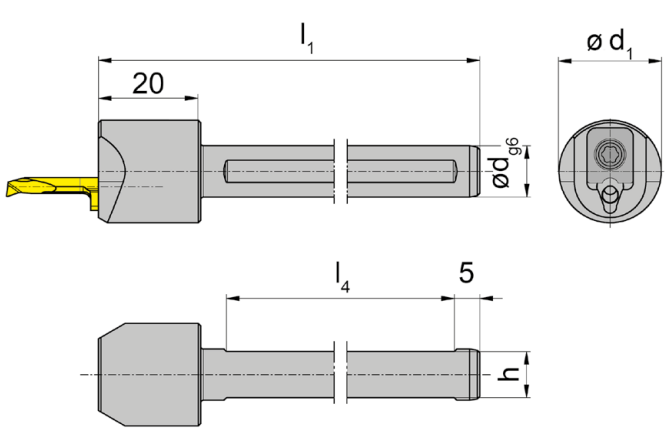
Ersatzteile
Spare Parts

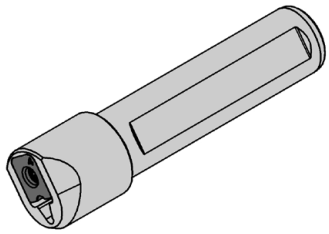
Klemmhalter Toolholder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BU105.0...03	**010.0105.03**	**T15PL**
BU105.0...04	**010.0105.04**	**T15PL**
BU105.0...05	**010.0105.05**	**T15PL**

Klemmhalter
Toolholder

B105







Bestellnummer Part number	d	h	l_1	l_4	d_1	HWS
B105.0010.S.SET	10	9	80	50	20	105123 • 105124 • 105125
B105.0012.S.SET	12	11	80	50	20	105123 • 105124 • 105125
B105.0016.S.SET	16	14	80	50	20	105123 • 105124 • 105125
B105.0020.S.SET	20	18	90	55	20	105123 • 105124 • 105125
B105.0022.S.SET	22	20	90	55	22	105123 • 105124 • 105125
B105.0025.S.SET	25	23	100	55	25	105123 • 105124 • 105125
B105.0028.S.SET	28	26	120	55	28	105123 • 105124 • 105125

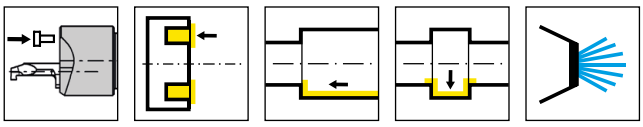
Hinweis:
Ein Klemmhalter-Set beinhaltet je 3 Spannelemente
Note:
One toolholder set includes 3 clamping elements each

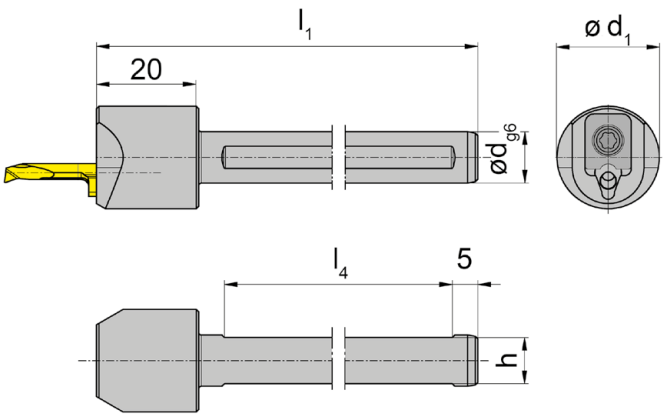
Ersatzteile
Spare Parts

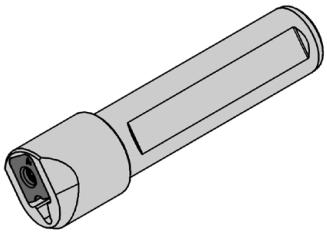
Klemmhalter Toolholder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**010.0105.03** **010.0105.04** **010.0105.05**	**T15PW**

Klemmhalter
Toolholder

BU105







Bestellnummer Part number	d	h	l_1	l_4	d_1	HWS
BU105.0500.S.SET	.500"	10,7	80	50	20	105123 • 105124 • 105125
BU105.0625.S.SET	.625"	13,875	80	50	20	105123 • 105124 • 105125
BU105.0750.S.SET	.750"	17,05	90	55	.750"	105123 • 105124 • 105125
BU105.1000.S.SET	1"	23,4	90	55	1"	105123 • 105124 • 105125

Abmessungen in inch und mm
Dimensions in inch and mm

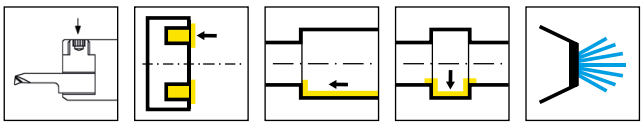
Hinweis:
Ein Klemmhalter-Set beinhaltet je 3 Spannelemente
Note:
One toolholder set includes 3 clamping elements each

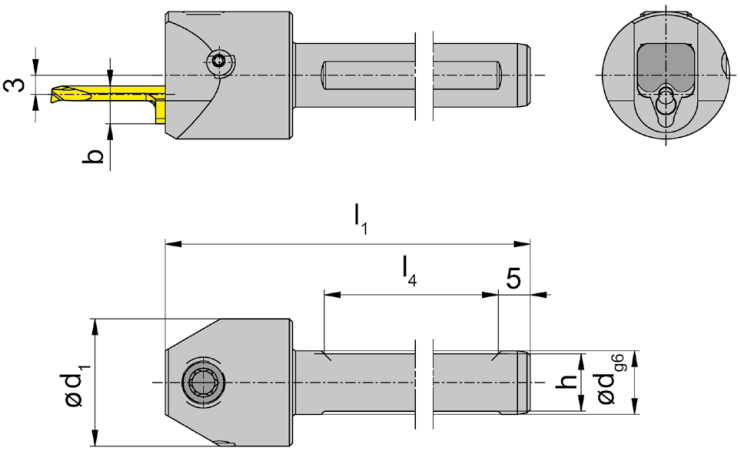
Ersatzteile
Spare Parts

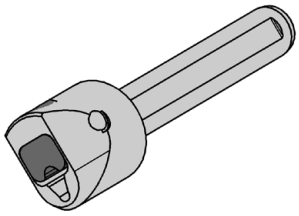
Klemmhalter Toolholder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BU105...	**010.0105.03** **010.0105.04** **010.0105.05**	**T15PW**

Klemmhalter
Toolholder

B105







Bestellnummer Part number	d	l_1	h	l_4	d_1	b	HWS
B105.0010.A.03	10	80	9	50	20	5,9	105123
B105.0012.A.03	12	80	11	50	20	5,9	105123
B105.0016.A.03	16	80	14	50	20	5,9	105123
B105.0020.A.03	20	90	18	55	20	5,9	105123
B105.0025.A.03	25	100	23	55	25	5,9	105123
B105.0010.A.04	10	80	9	50	20	6,4	105124
B105.0012.A.04	12	80	11	50	20	6,4	105124
B105.0016.A.04	16	80	14	50	20	6,4	105124
B105.0020.A.04	20	90	18	55	20	6,4	105124
B105.0025.A.04	25	100	23	55	25	6,4	105124
B105.0010.A.05	10	80	9	50	20	7	105125
B105.0012.A.05	12	80	11	50	20	7	105125
B105.0016.A.05	16	80	14	50	20	7	105125
B105.0020.A.05	20	90	18	55	20	7	105125
B105.0025.A.05	25	100	23	55	25	7	105125

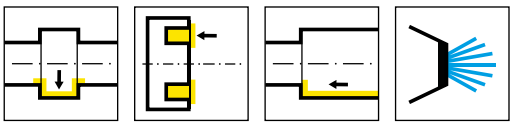
b = Schneidplattenhöhe
b = Heigth of insert

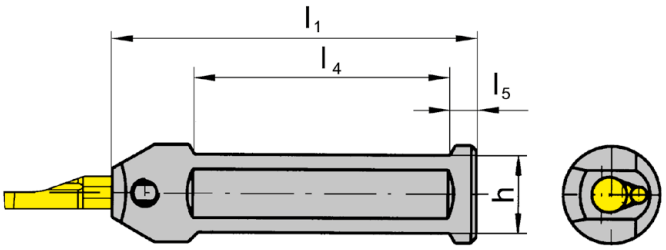
Ersatzteile
Spare Parts

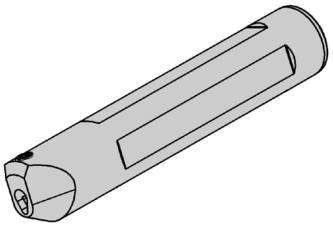
Klemmhalter Toolholder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0...03	**010.0003.0668**	**T25PQ**
B105.0...04	**010.0004.0667**	**T25PQ**
B105.0...05	**010.0005.0663**	**T25PQ**

Klemmhalter
Toolholder

B105







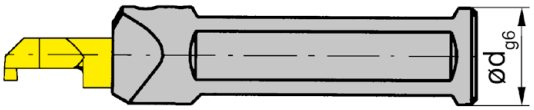


Abbildung = rechtsschneidend
Picture = right hand cutting version

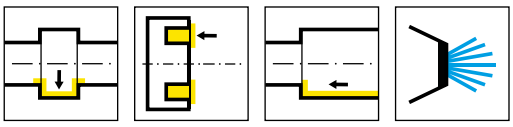
Bestellnummer Part number	d	l_1	h	l_4	l_5	HWS
B105.0022.1.2.01	22	120	20	72	5	105123 • 105124 • 105125

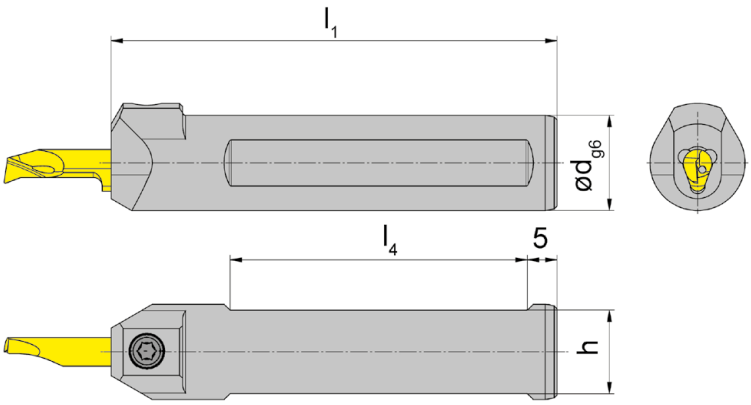
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0022.1.2.01	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





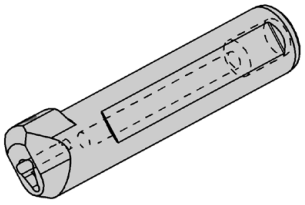
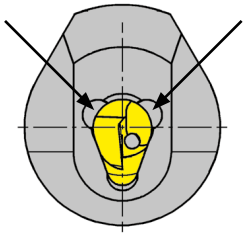


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	h	l_4	HWS
B105.0012.K.01	12	75	11	50	105123 • 105124 • 105125
B105.0016.K.01	16	75	14	50	105123 • 105124 • 105125
B105.0020.K.01	20	90	18	50	105123 • 105124 • 105125
B105.0022.K.01	22	90	20	55	105123 • 105124 • 105125
B105.0025.K.01	25	100	23	55	105123 • 105124 • 105125
B105.0012.M8.K.01	12	75	11	50	105123 • 105124 • 105125
B105.0016.M8.K.01	16	75	14	50	105123 • 105124 • 105125
B105.0020.M8.K.01	20	90	18	55	105123 • 105124 • 105125

mit zusätzlichen Spülbohrungen
with additional through coolant bores

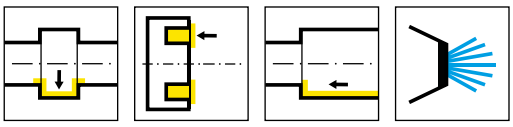


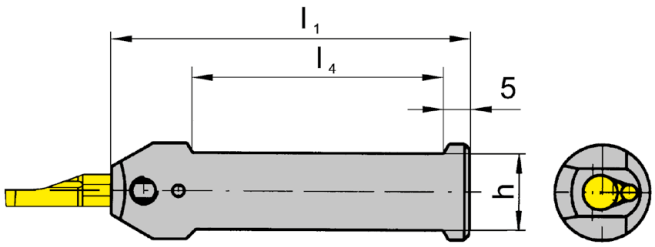
Ersatzteile
Spare Parts

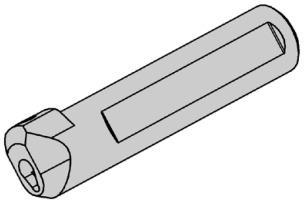
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105







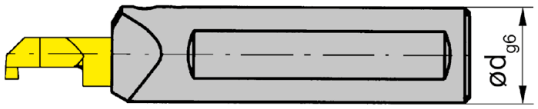


Abbildung = rechtsschneidend
Picture = right hand cutting version

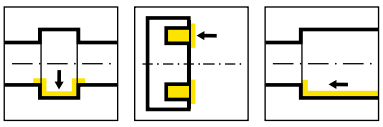
Bestellnummer Part number	d	l_1	h	l_4	HWS
B105.0012.M8.01	12	75	11	50	105123 • 105124 • 105125
B105.0016.M8.01	16	75	14	50	105123 • 105124 • 105125
B105.0020.M8.01	20	90	18	55	105123 • 105124 • 105125
B105.0025.M8.01	25	100	23	55	105123 • 105124 • 105125

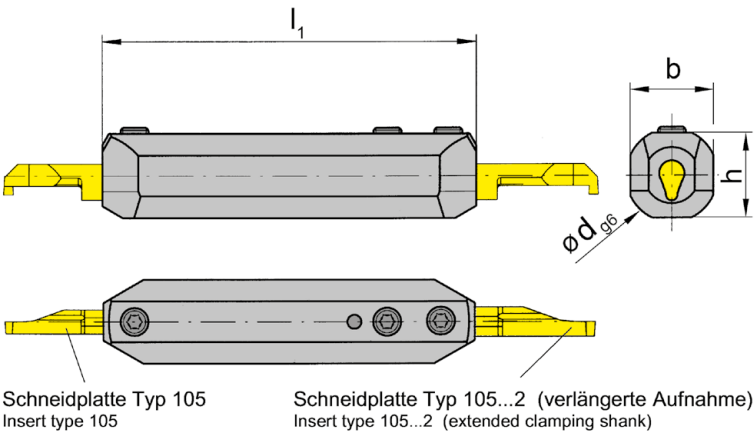
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





Schneidplatte Typ 105
Insert type 105

Schneidplatte Typ 105...2 (verlängerte Aufnahme)
Insert type 105...2 (extended clamping shank)

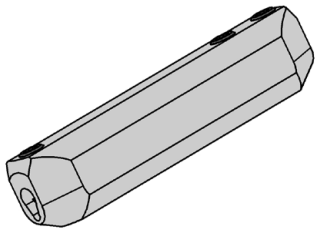


Abbildung = rechtsschneidend
Picture = right hand cutting version

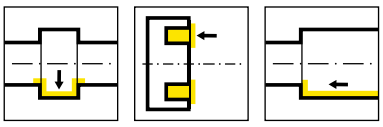
Bestellnummer Part number	d	l_1	h	b	HWS
B105.0020.1.03	20	80	18	18	105123 • 105124 • 105125 • 105225

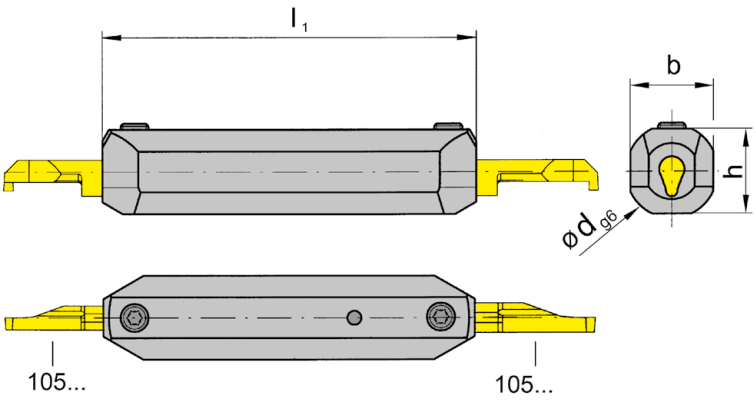
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0020.1.03	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





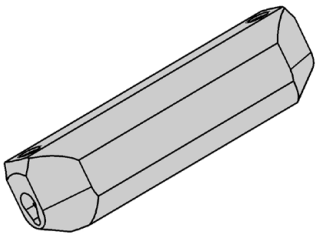


Abbildung = rechtsschneidend
Picture = right hand cutting version

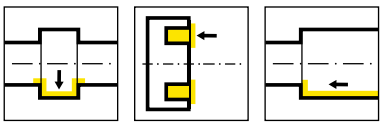
Bestellnummer Part number	d	l_1	h	b	HWS
B105.0022.2.1.01	22	80	20	20	105123 • 105124 • 105125
B105.0022.2.2.01	22	120	20	20	105123 • 105124 • 105125

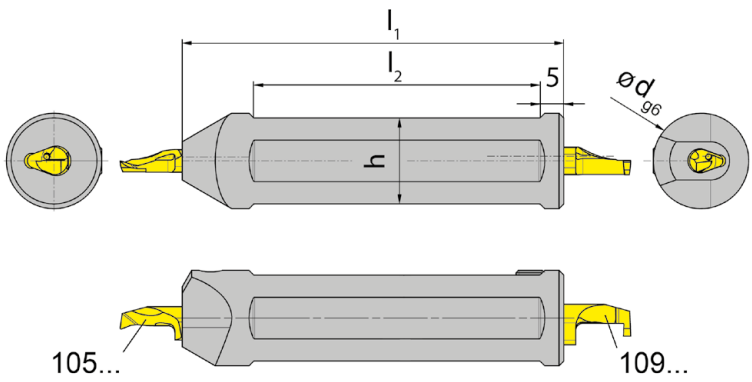
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





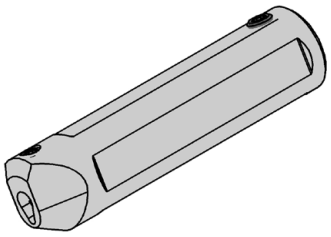


Abbildung = rechtsschneidend
Picture = right hand cutting version

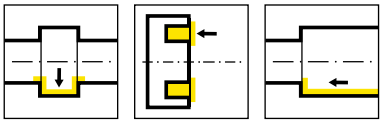
Bestellnummer Part number	d	l_1	h	l_2	HWS
B105.0020.1.09	20	80	18	60	105123 • 105124 • 105125 • 109140

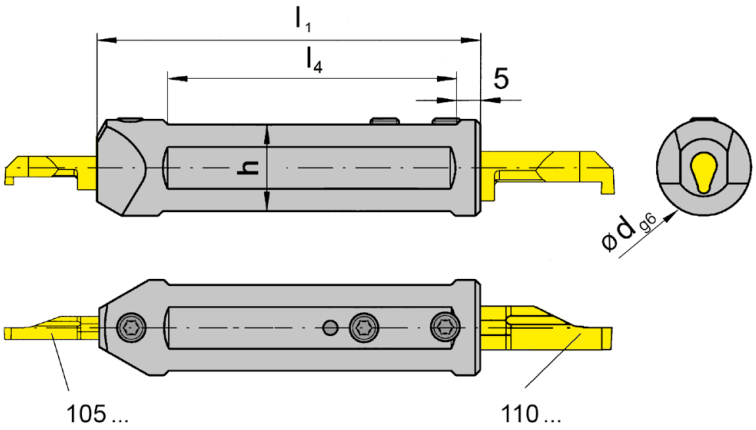
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0020.1.09	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105





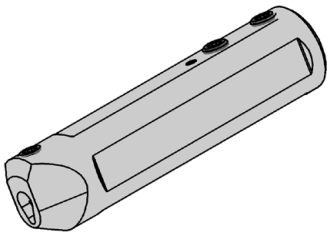


Abbildung = rechtsschneidend
Picture = right hand cutting version

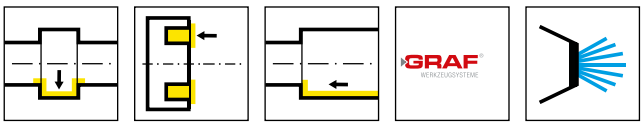
Bestellnummer Part number	d	l_1	h	l_4	HWS
B105.0020.1.10	20	80	18	60	105123 • 105124 • 105125 • 110260

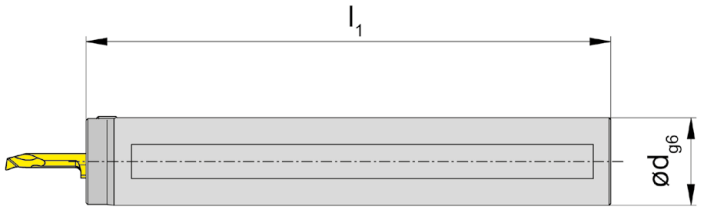
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105.0020.1.10	**6.075T15P**	**T15PQ**

Grundhalter Graf
Basic toolholder Graf

IR105





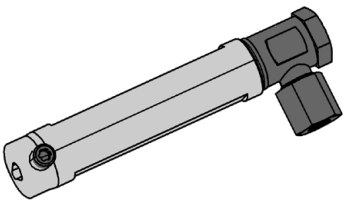




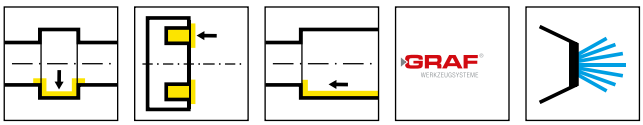
Abbildung = rechtsschneidend
Picture = right hand cutting version

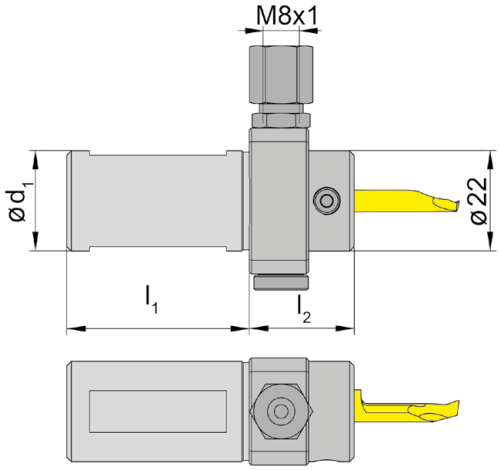
Bestellnummer Part number	d	l_1	Maschinentyp Machine type	HWS
IR.105.34.100.IK	3/4"	100	Citizen	105123 • 105124 • 105125
IR.105.34.40.IK	3/4"	40	Citizen	105123 • 105124 • 105125
IR.105.34.50.IK	3/4"	50	Citizen	105123 • 105124 • 105125
IR.105.34.70.IK	3/4"	70	Citizen	105123 • 105124 • 105125
IR.105.10.100.IK	1"	100	Citizen	105123 • 105124 • 105125
IR.105.10.60.IK	1"	60	Citizen	105123 • 105124 • 105125
IR.105.20.30.IK	20	30	Citizen	105123 • 105124 • 105125
IR.105.20.50.IK	20	50	Citizen	105123 • 105124 • 105125
IR.105.16.100.IK	16	100	Star	105123 • 105124 • 105125
IR.105.16.30.IK	16	30	Star	105123 • 105124 • 105125
IR.105.16.50.IK	16	50	Star	105123 • 105124 • 105125
IR.105.16.70.IK	16	70	Star	105123 • 105124 • 105125
IR.105.20.100.IK	20	100	Star	105123 • 105124 • 105125
IR.105.22.100.IK	22	100	Star	105123 • 105124 • 105125
IR.105.22.120.3.IK	22	120	Star	105123 • 105124 • 105125
IR.105.22.120.IK	22	120	Star	105123 • 105124 • 105125
IR.105.22.150.IK	22	150	Star	105123 • 105124 • 105125
IR.105.22.38.IK	22	38	Star	105123 • 105124 • 105125
IR.105.22.50.IK	22	50	Star	105123 • 105124 • 105125
IR.105.22.70.IK	22	70	Star	105123 • 105124 • 105125
IR.105.20.170.IK	20	170	Tornos	105123 • 105124 • 105125
IR.105.20.185.IK	20	185	Tornos	105123 • 105124 • 105125
IR.105.25.100.IK	25	100	Tornos	105123 • 105124 • 105125
IR.105.25.150.IK	25	150	Tornos	105123 • 105124 • 105125
IR.105.28.80.IK	28	80	Tornos	105123 • 105124 • 105125

Abmessungen in inch und mm
Dimensions in inch and mm

Einbauhalter Graf
Cartridge Graf

IR105





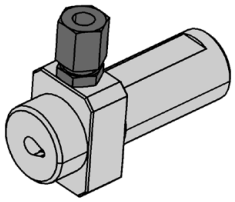


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d_1	l_1	l_2	HWS
IR.105.1640.IKV	16	40	25	105123 • 105124 • 105125
IR.105.3440.IKV	3/4“	40	25	105123 • 105124 • 105125
IR.105.2040.IKV	20	40	25	105123 • 105124 • 105125
IR.105.2240.IKV	22	40	25	105123 • 105124 • 105125
IR.105.2560.IKV	25	60	25	105123 • 105124 • 105125
IR.105.1060.IKV	1“	60	25	105123 • 105124 • 105125

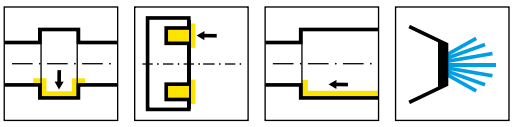
Abmessungen in inch und mm
Dimensions in inch and mm

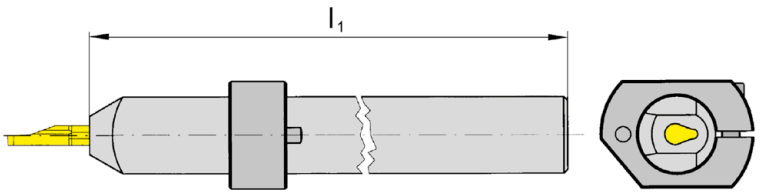
Ersatzteile
Spare Parts

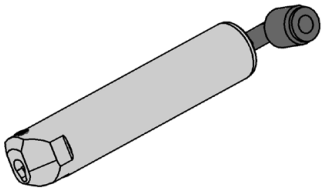
Einbauhalter Graf Cartridge Graf	**Spannschraube** Clamping Screw	**Kühlmittelanschluss** Coolant supply	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
IR...	**6.075T15P**	**004.00.19**	**T15PQ**

Klemmhalter
Toolholder

B105







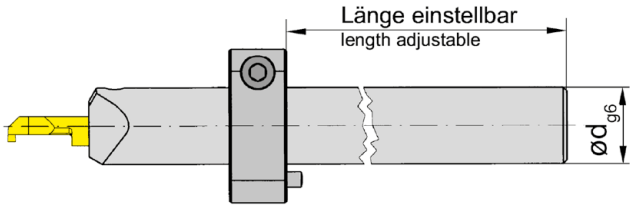
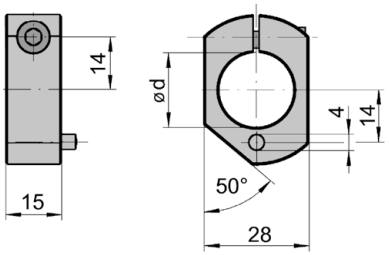


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	HWS
B105.0020.2.01	20	150	105123 • 105124 • 105125
B105.0025.2.01	25	150	105123 • 105124 • 105125

Stellring ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Adjusting ring is not combined with the toolholder - separate order required!

Stellring Adjusting ring	d	Maschinentyp Type of machine
020.0020.1665	20	Tornos
020.0025.2234	25	Tornos

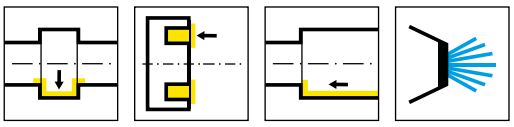


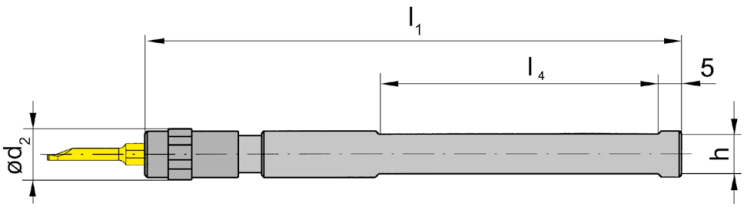
Ersatzteile
Spare Parts

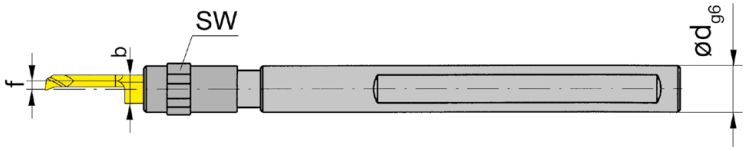
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105







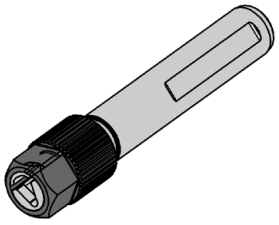


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	h	l_4	f	d_2	SW	b	HWS
B105.0010.9.01	10	100	9	50	1,6	11	10	5,9	105123
B105.0012.11.01	12	100	11	50	1,2	16	13	7	105125
B105.0016.11.01	16	100	15	50	1,2	16	13	7	105125

b = Schneidplattenhöhe
b = Heigth of insert

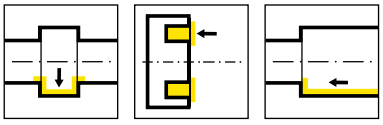
Anzugsdrehmoment: 2 Nm
Torque specification: 2 Nm

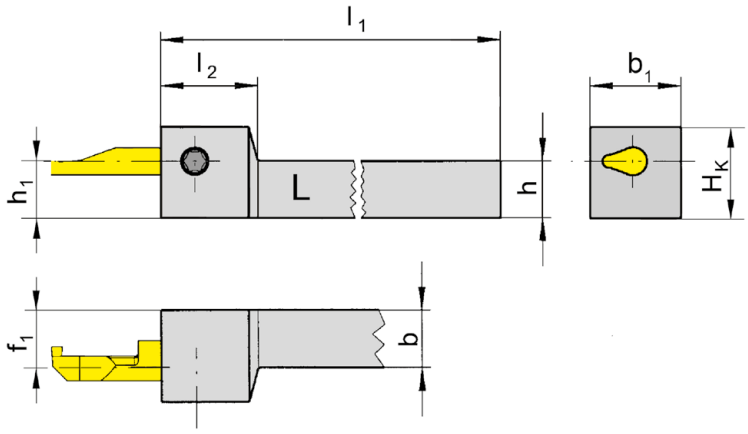
Ersatzteile
Spare Parts

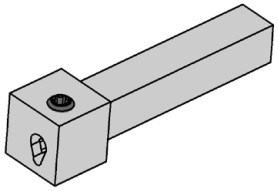
Klemmhalter Toolholder	**Spannmutter** Clamping nut
B105.0010.9.01	**020.0010.1719**
B105...	**020.0016.1999**

Klemmhalter
Toolholder

H105







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

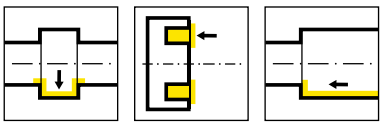
Bestellnummer Part number	h	b	l_1	h_1	b_1	f_1	H_K	l_2	HWS
RH105.0808.01	8	8	90	8	16	7,5	14	17	105123 • 105124 • 105125
RH105.1010.01	10	10	90	10	16	7,5	16	17	105123 • 105124 • 105125
RH105.1212.01	12	12	90	12	16	7,5	18	17	105123 • 105124 • 105125
RH105.1616.01	16	16	110	16	16	7,5	22	17	105123 • 105124 • 105125
LH105.0808.01	8	8	90	8	16	7,5	14	17	105123 • 105124 • 105125
LH105.1010.01	10	10	90	10	16	7,5	16	17	105123 • 105124 • 105125
LH105.1212.01	12	12	90	12	16	7,5	18	17	105123 • 105124 • 105125
LH105.1616.01	16	16	110	16	16	7,5	22	17	105123 • 105124 • 105125

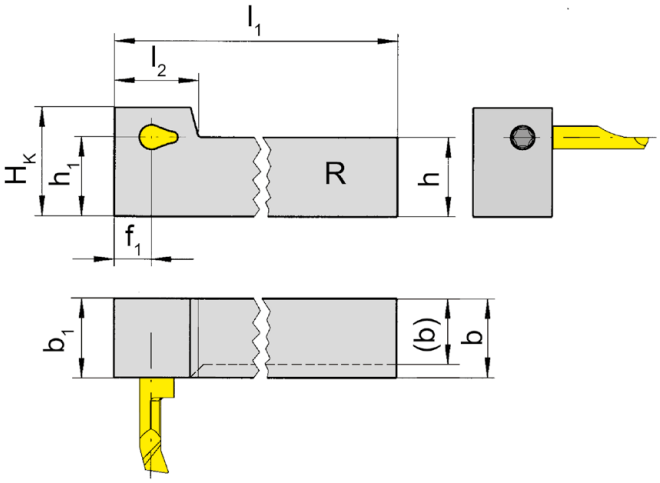
Ersatzteile
Spare Parts

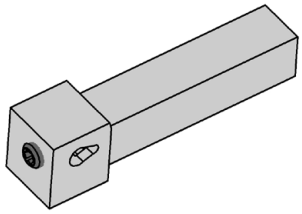
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LH105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

HC105







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

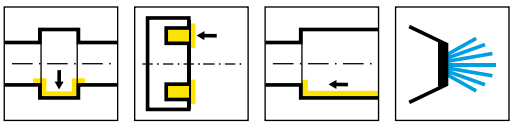
Bestellnummer Part number	h	b	l_1	l_2	h_1	b_1	f_1	H_K	HWS
RHC105.1212.01	12	12	90	17	12	16	7,5	18	105123 • 105124 • 105125
RHC105.1616.01	16	16	130	17	16	16	7,5	22	105123 • 105124 • 105125
LHC105.1212.01	12	12	90	17	12	16	7,5	18	105123 • 105124 • 105125
LHC105.1616.01	16	16	130	17	16	16	7,5	22	105123 • 105124 • 105125

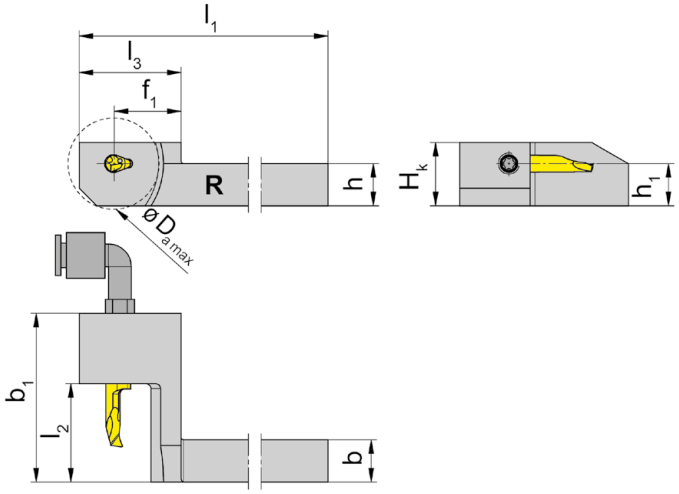
Ersatzteile
Spare Parts

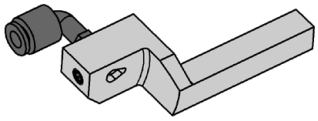
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LHC105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

HC105







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	h	b	l_1	l_3	h_1	b_1	f_1	$D_{a\,max}$	H_K	l_2	HWS
RHC105.0808.21	8	8	99	29	8	32	19	26	13	18	105123 • 105124 • 105125
RHC105.1010.11	10	10	99	29	10	22,7	19	26	16	8	105123 • 105124 • 105125
RHC105.1010.21	10	10	99	29	10	38	19	26	16	18	105123 • 105124 • 105125
RHC105.1010.41	10	10	99	29	10	48	19	26	16	28	105123 • 105124 • 105125
RHC105.1212.21	12	12	99	29	12	38	19	26	18	18	105123 • 105124 • 105125
RHC105.1212.41	12	12	99	29	12	48	19	26	18	28	105123 • 105124 • 105125
RHC105.1616.21	16	16	104	34	16	38	24	36	22	18	105123 • 105124 • 105125
RHC105.1616.41	16	16	104	34	16	48	24	36	22	28	105123 • 105124 • 105125
LHC105.0808.21	8	8	99	29	8	32	19	26	13	18	105123 • 105124 • 105125
LHC105.1212.21	12	12	99	29	12	38	19	26	18	18	105123 • 105124 • 105125
LHC105.1616.21	16	16	104	34	16	38	24	36	22	18	105123 • 105124 • 105125

Kühlmittelzufuhr über Winkelverschraubung
Coolant supply through cranked fitting

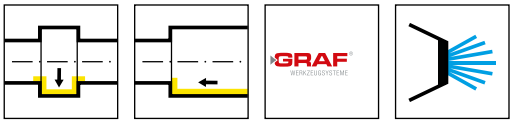
R/LHC105.08.../.1010.11 ohne Innenkühlung
R/LHC105.08.../.1010.11 without trough coolant

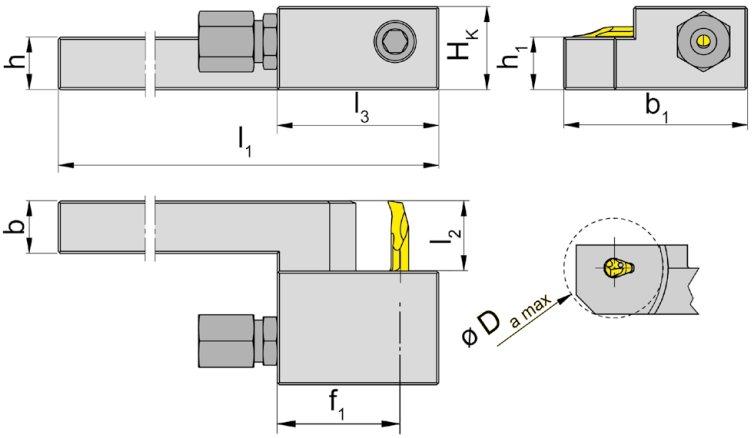
Ersatzteile
Spare Parts

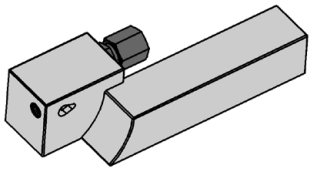
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LHC105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

962







R = rechts wie gezeichnet
R = right hand version shown

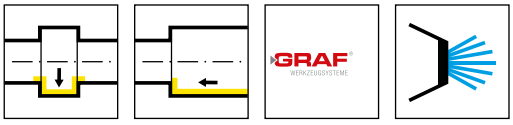
L = links spiegelbildlich
L = left hand version

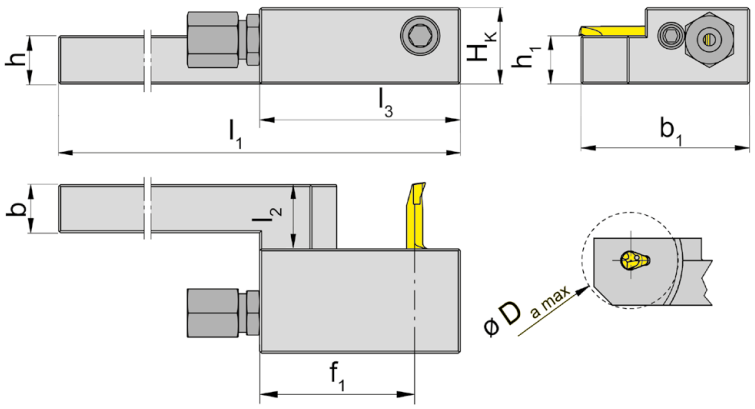
Bestellnummer Part number	h	b	f_1	l_1	l_3	h_1	H_K	b_1	l_2	$D_{a\,max}$	HWS
962.08.01.R.IK	8	8	27	130	37	8	15	42	18	30	105123 • 105124 • 105125
962.08.02.L.IK	8	8	27	130	37	8	15	42	18	30	105123 • 105124 • 105125
962.10.01.R.IK	10	10	27	130	37	10	17	42	18	30	105123 • 105124 • 105125
962.10.02.L.IK	10	10	27	130	37	10	17	42	18	30	105123 • 105124 • 105125
962.10.03.R.IK	10	10	27	130	37	10	17	57	33	30	105123 • 105124 • 105125
962.10.04.L.IK	10	10	27	130	37	10	7	57	33	30	105123 • 105124 • 105125
962.12.01.R.IK	12	12	27	130	37	12	19	42	18	30	105123 • 105124 • 105125
962.12.02.L.IK	12	12	27	130	37	12	19	42	18	30	105123 • 105124 • 105125
962.12.03.R.IK	12	12	27	130	37	12	19	57	33	30	105123 • 105124 • 105125
962.12.04.L.IK	12	12	27	130	37	12	19	57	33	30	105123 • 105124 • 105125
962.16.01.R.IK	16	16	27	130	37	16	23	42	18	34	105123 • 105124 • 105125
962.16.02.L.IK	16	16	27	130	37	16	23	42	18	34	105123 • 105124 • 105125
962.16.03.R.IK	16	16	27	130	37	16	23	57	33	34	105123 • 105124 • 105125
962.16.04.L.IK	16	16	27	130	37	16	23	57	33	34	105123 • 105124 • 105125
962.20.01.R.IK	20	20	27	130	37	20	27	42	18	34	105123 • 105124 • 105125
962.20.02.L.IK	20	20	27	130	37	20	27	42	18	34	105123 • 105124 • 105125

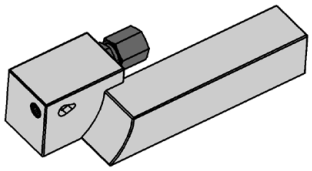
Kühlmittelzufuhr über Verschraubung
Coolant through fitting

Klemmhalter
Toolholder

963







R = rechts wie gezeichnet
R = right hand version shown

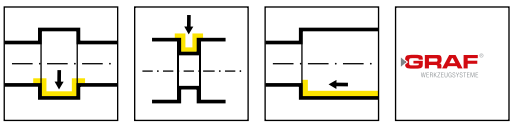
L = links spiegelbildlich
L = left hand version

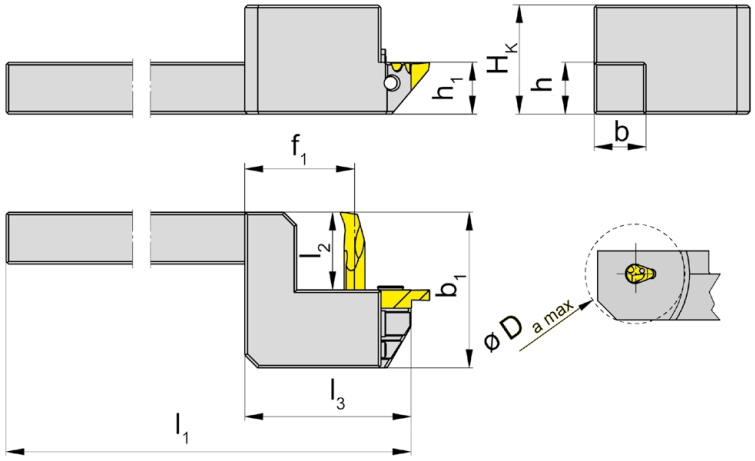
Bestellnummer Part number	h	b	f_1	l_1	l_3	h_1	H_K	b_1	l_2	$D_{a\,max}$	HWS
963.12.01.R.IK	12	12	40	130	50	12	19	42	18	46	105123 • 105124 • 105125
963.12.02.L.IK	12	12	40	130	50	12	19	42	18	46	105123 • 105124 • 105125
963.16.01.R.IK	16	16	45	130	50	16	23	42	18	52	105123 • 105124 • 105125
963.16.02.L.IK	16	16	45	130	50	16	23	42	18	52	105123 • 105124 • 105125

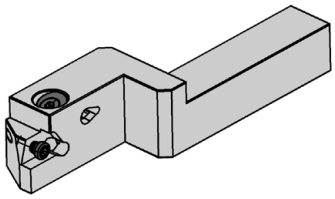
Kühlmittelzufuhr über Verschraubung
Coolant through fitting

Klemmhalter
Toolholder

AIH







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

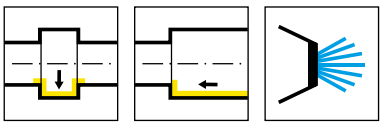
Bestellnummer Part number	h	b	f_1	l_1	l_3	h_1	H_K	b_1	l_2	$D_{a\ max}$	HWS
AIH.974.R.1212.K04	12	12	23	130	35	12	19	30	15	20	105123 • 105124 • 105125 • 274040R
AIH.974.R.1616.K04	16	16	26	130	38	16	23	30	15	26	105123 • 105124 • 105125 • 274040R
AIH.974.R.2020.K04	20	20	29	130	38	20	23	30	15	32	105123 • 105124 • 105125 • 274040R

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
AIH...	**6.075T15P**	**T15PQ**

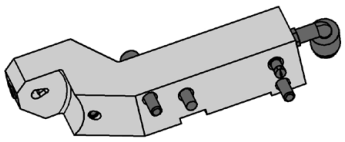
Grundhalter
Basic toolholder

HC105









Bestellnummer Part number	Maschinentyp Machine type	Schneidplatte Insert	HWS	HMS
RHC105.0710.21	EvoDECO 10	105...21 l_2 bis/up to 15 mm	105123 • 105124 • 105125	Tornos
RHC105.0710.41	EvoDECO 10	105...41 l_2 bis/up to 25 mm	105123 • 105124 • 105125	Tornos

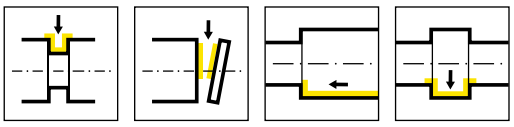
Werkzeug für Tornos
Tool for Tornos

Ersatzteile
Spare Parts

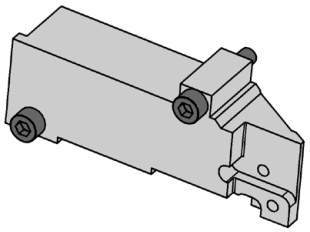
Grundhalter Basic toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench	**SMC Winkelverschraubung** SMC Angled Screw Coupling
RHC105...	**6.075T15P**	**T15PQ**	**KQ2L06-M5**

Grundhalter
Basic toolholder

L760





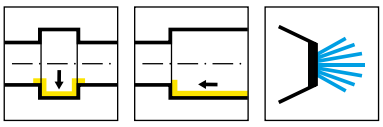


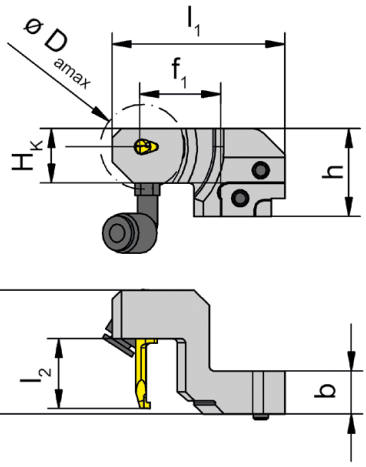
Bestellnummer Part number	Schneidplatte Insert	Kassette Cassette	Maschinentyp Machine type
L760.0013.K1	105...21 L_2bis/up to 15 mm	RKC760.0105.21	EvoDECO 16
L760.2026.K1	105...41 L_2bis/up to 25 mm	RKC760.0105.41	EvoDECO 20/EvoDECO 32

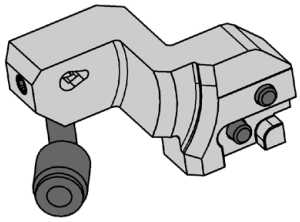
Werkzeug für Tornos
Tool for Tornos

Kassette
Cassette

KC760







Bestellnummer Part number	l_1	l_2	b_1	b	h	H_K	f_1	$D_{a\ max}$	HWS
RKC760.0105.21	57	24,9	40,9	14,2	29	18	26	28	105123 • 105124 • 105125
RKC760.0105.41	57	34,9	50,9	14,2	29	18	26	28	105123 • 105124 • 105125

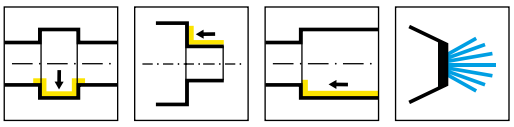
Werkzeug für Tornos Grundhalter L760
Tool for Tornos Basic toolholder L760

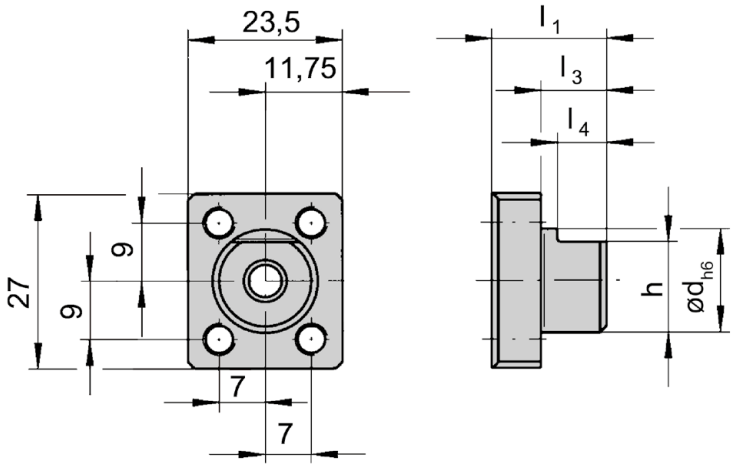
Ersatzteile
Spare Parts

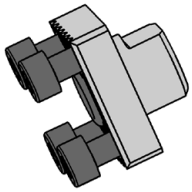
Kassette Cassette	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
RKC760...	**5.12T20P**	**T15PQ**

Grundhalter
Basic toolholder

BGT



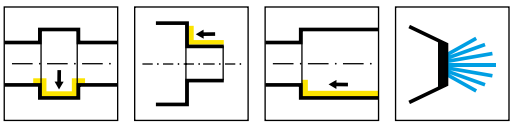


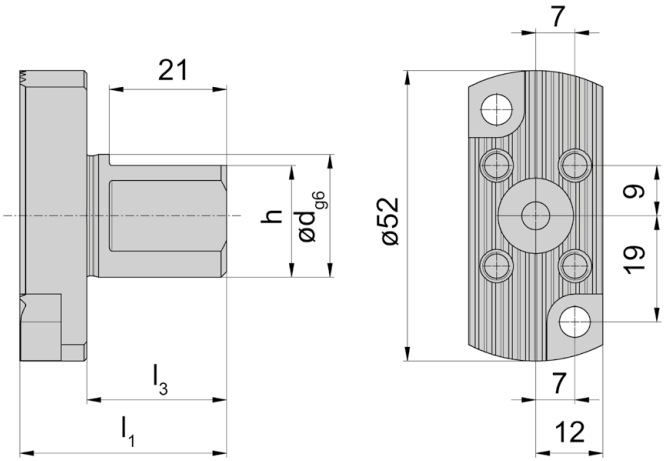


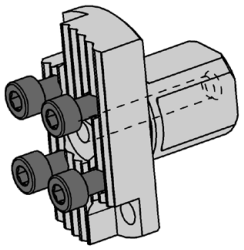
Bestellnummer Part number	h	d	l_1	l_3	l_4	Maschinentyp Machine type	HMS
BGT001.1627.10	14	16	17,5	10	7,5	Star	Kerbverzahnung 90° / T3

Grundhalter
Basic toolholder

BGT



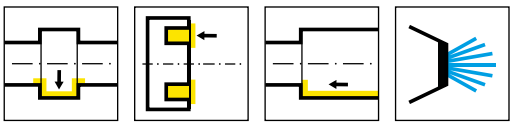


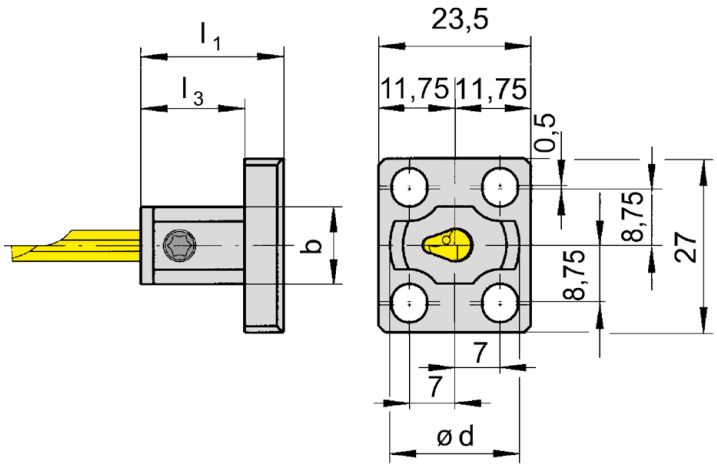


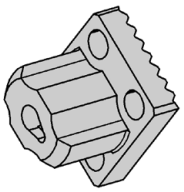
Bestellnummer Part number	h	d	l_1	l_3	l_4	HMS
BGT001.0R22.25	20	22	37	25	21	Kerbverzahnung 90° / T3

Einstellbare Halter
Adjustable holder

BKT







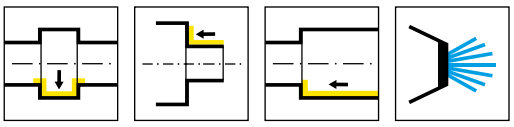
Bestellnummer Part number	d	l_1	l_3	b	HWS	HMS
BKT105.2327.01	20	22	16	12	105123 • 105124 • 105125	Kerbverzahnung 90° / T3

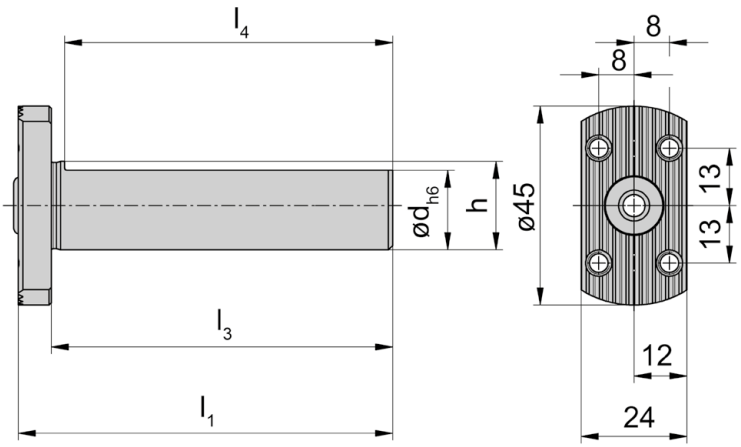
Ersatzteile
Spare Parts

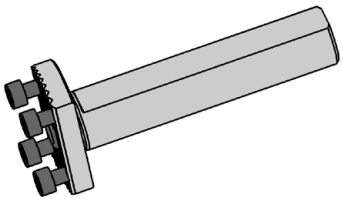
Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BKT105.2327.01	**6.075T15P**	**T15PQ**

Grundhalter
Basic toolholder

BGT





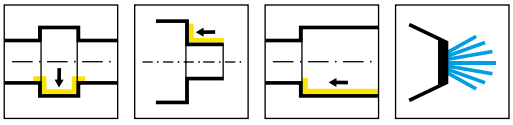


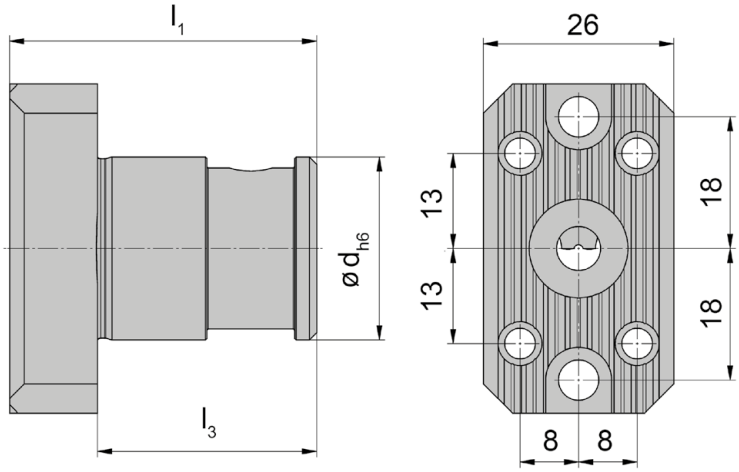
Bestellnummer Part number	h	d	l_1	l_3	l_4	Maschinentyp Machine type	HMS
BGT001.0010.50	9	10	57,5	50	47		Kerbverzahnung 90° / T3
BGT001.0016.21	14	16	28,5	21	18	Star	Kerbverzahnung 90° / T3
BGT001.0R16.21	14	16	28,5	21	18	Star	Kerbverzahnung 90° / T3
BGT001.0020.100	18	20	107,5	100	97	Tornos	Kerbverzahnung 90° / T3
BGT001.0022.30	20	22	36,35	30	27	Star	Kerbverzahnung 90° / T3
BGT001.0025.70	23	25	77,5	70	67		Kerbverzahnung 90° / T3

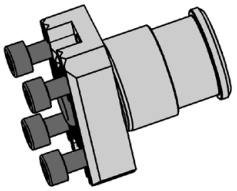
BGT001.0022.30 ohne innere Kühlmittelzufuhr
BGT001.0022.30 without through coolant supply

Grundhalter
Basic toolholder

BGT



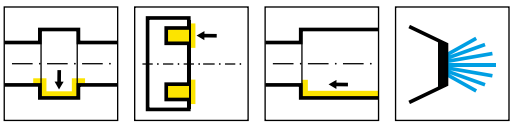


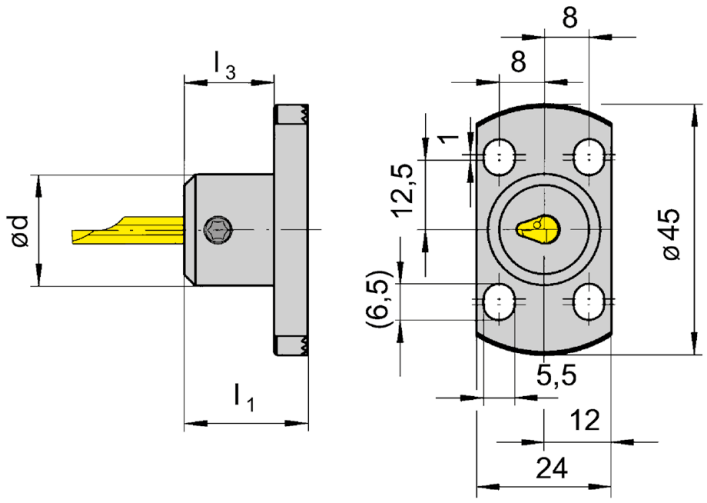


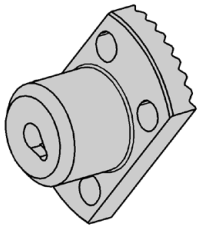
Bestellnummer Part number	d	l_1	l_3	Maschinentyp Machine type	HMS
BGT001.C025.30IK	25	42	30	Citizen L20X	Kerbverzahnung 90° / T3

Einstellbare Halter
Adjustable holder

BKT







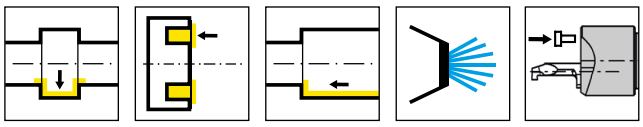
Bestellnummer Part number	d	l_1	l_3	HWS	HMS
BKT105.2445.01	20	22	16	105123 • 105124 • 105125	Kerbverzahnung 90° / T3
BKT105.2445.02	20	32	26	105225	Kerbverzahnung 90° / T3

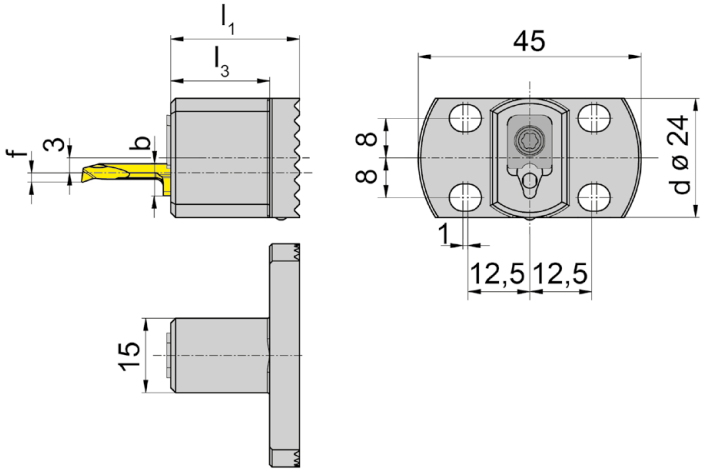
Ersatzteile
Spare Parts

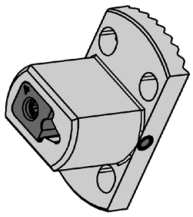
Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BKT105...	**6.075T15P**	**T15PQ**

Einstellbare Halter
Adjustable holder

BKT







Bestellnummer Part number	l_1	d	l_3	b	HWS	HMS
BKT105.2445.S.03	26	24	20	5,9	105123	Kerbverzahnung 90° / T3
BKT105.2445.S.04	26	24	20	6,4	105124	Kerbverzahnung 90° / T3
BKT105.2445.S.05	26	24	20	7	105125	Kerbverzahnung 90° / T3

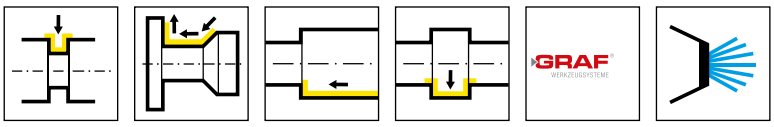
f siehe Schneidplatte Typ 105
f see inserts type 105

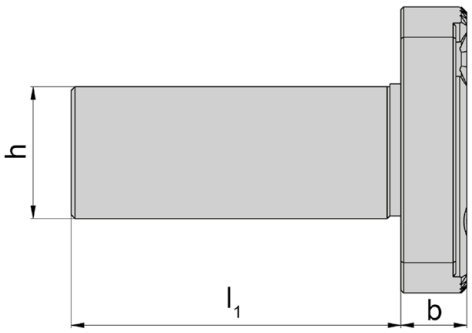
Ersatzteile
Spare Parts

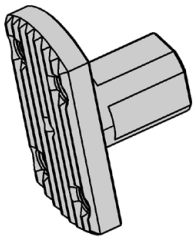
Einstellbare Halter Adjustable holder	**Spannelement** Clamping element	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
BKT105.2445.S.03	**010.0105.03**	**T15PL**
BKT105.2445.S.04	**010.0105.04**	**T15PL**
BKT105.2445.S.05	**010.0105.05**	**T15PL**

Grundhalter Graf
Basic toolholder Graf

G





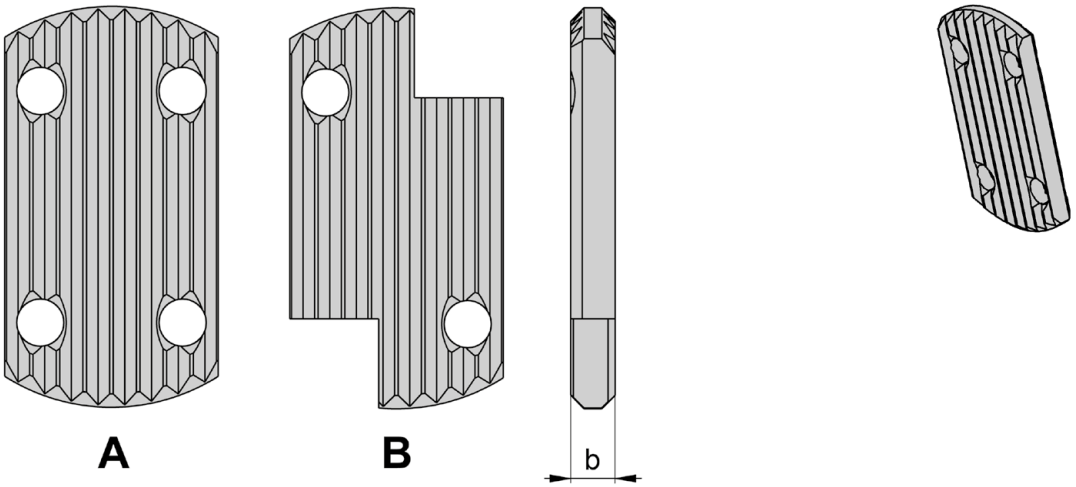


Bestellnummer Part number	d	l_1	h	b	Maschinentyp Machine type
G.016.021	16	21	14	6	Star
G.016.040	16	40	14	6	Traub/Manurhin
G.034.040	3/4“	40	18	6	Citizen
G.034.050	3/4“	50	18	6	Citizen
G.034.120	3/4“	120	18	6	Citizen
G.020.030	20	30	18	6	Citizen
G.020.040	20	40	18	6	Citizen
G.020.100	20	100	18	6	Citizen
G.020.150	20	150	18	6	Citizen
G.022.023	22	23	20	6	Star
G.022.030	22	30	20	6	Star
G.022.070	22	70	20	6	Star
G.025.060	25	60	23	12	Hanwha
G.025.070	25	70	23	6	Manurhin/Tornos
G.025.100	25	100	23	6	Manurhin/Tornos
G.025.160	25	160	23	6	Manurhin/Tornos
G.010.060	1“	60	23	12	Citizen
G.010.100	1“	100	23	6	Citizen
G.028.006	28	6	26	6	Hanwha
G.028.080	28	80	26	12	Traub
G.034.020	34	20	32	12	Maier
G.034.044	34	44	32	12	Maier/Hanwha

Abmessungen in inch und mm
Dimensions in inch and mm

Zwischenstück Graf
Adaptor Graf

Z



Bestellnummer Part number	b	Form
Z.5	5	A
Z.10	10	A
Z.15	15	A
Z.20	20	A
Z.25	25	A
Z.30	30	A
Z10AS	10	B
Z25AS	25	B
Z30AS	30	B

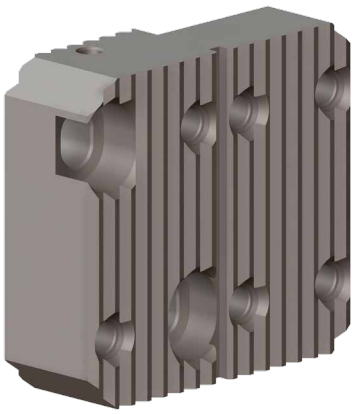
Zwischenstück Graf
Adaptor Graf

Rückseitenbearbeitung
Back working

passend für Halter Graf Typ N und HORN BKT105.2445.01/02 und BKT105.2445.S.03/04/05
suitable for holder Graf type N and HORN BKT105.2445.01/02 and BKT105.2445.S.03/04/05

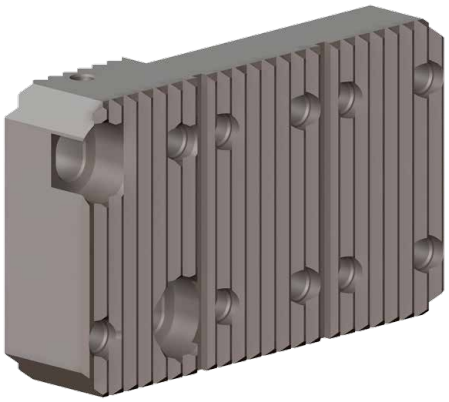
Bestellnummer **N11**
Part number

Für wahlweise 2 Einsätze
For alternatively 2 cartridges



Bestellnummer **N12**
Part number

Für wahlweise 3 Einsätze
For alternatively 3 cartridges



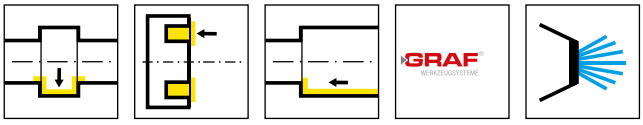
Bestellnummer **N93IK**
Part number

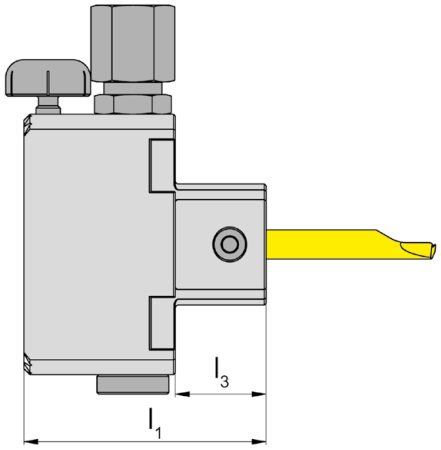
mit innerer Kühlmittelzufuhr
with through coolant supply

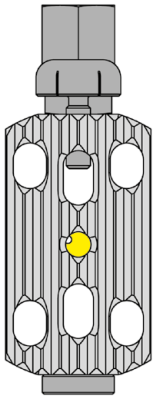


Einstellbare Halter
Adjustable holder

N







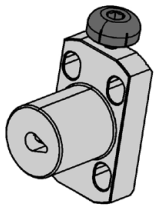


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	l_1	l_3	HWS
N.09.IK	40	15	105123 • 105124 • 105125

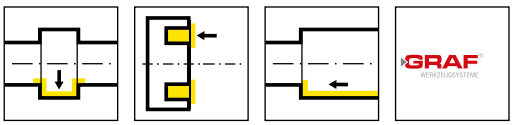
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

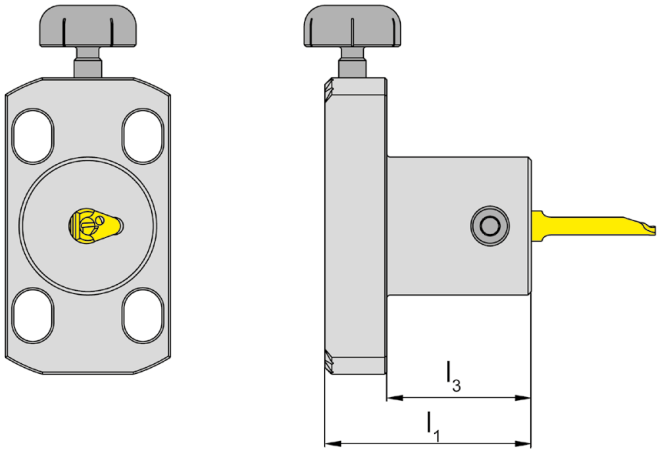
Ersatzteile
Spare Parts

Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw	**Kühlmittelanschluss** Coolant supply
N.09.IK	**6.075T15P**	**004.00.19**

Einstellbare Halter
Adjustable holder

N





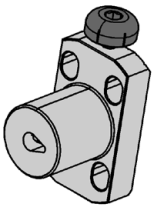


Abbildung = rechtsschneidend
Picture = right hand cutting version

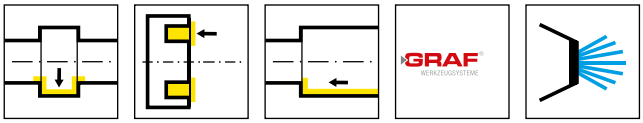
Bestellnummer Part number	l_1	l_3	HWS
N.09	30	20	105123 • 105124 • 105125

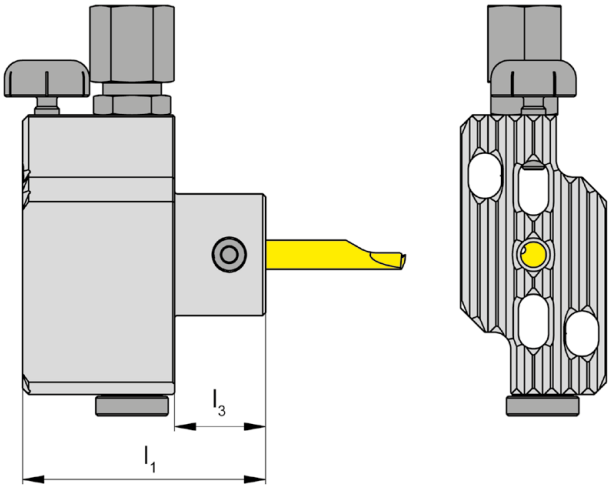
Ersatzteile
Spare Parts

Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw
N.09	**6.075T15P**

Einstellbare Halter
Adjustable holder

N





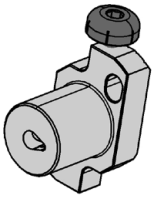


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	l_1	l_3	HWS
N.73.IK	40	15	105123 • 105124 • 105125

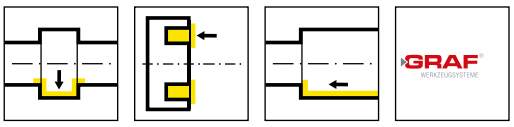
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

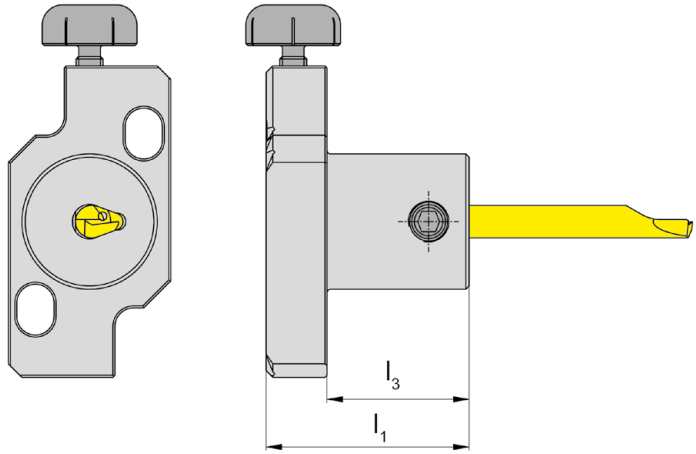
Ersatzteile
Spare Parts

Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw	**Kühlmittelanschluss** Coolant supply
N.73.IK	**6.075T15P**	**004.00.19**

Einstellbare Halter
Adjustable holder

N





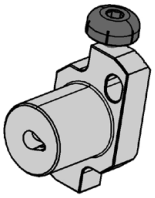


Abbildung = rechtsschneidend
Picture = right hand cutting version

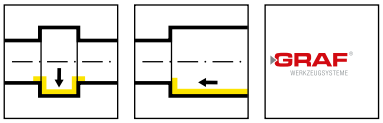
Bestellnummer Part number	l_1	l_3	HWS
N.73	30	20	105123 • 105124 • 105125

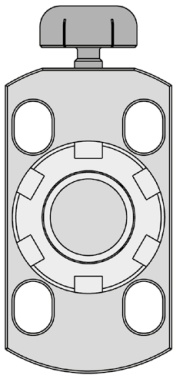
Ersatzteile
Spare Parts

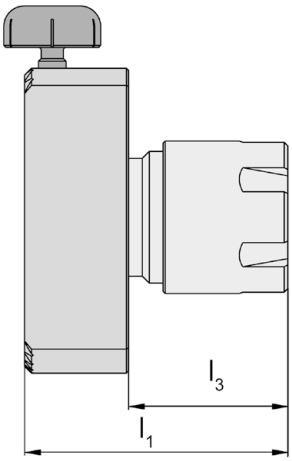
Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw
N.73	**6.075T15P**

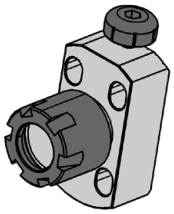
Einstellbare Halter
Adjustable holder

N





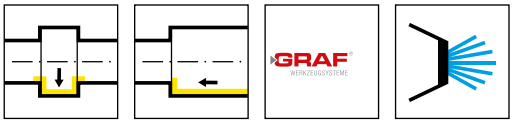


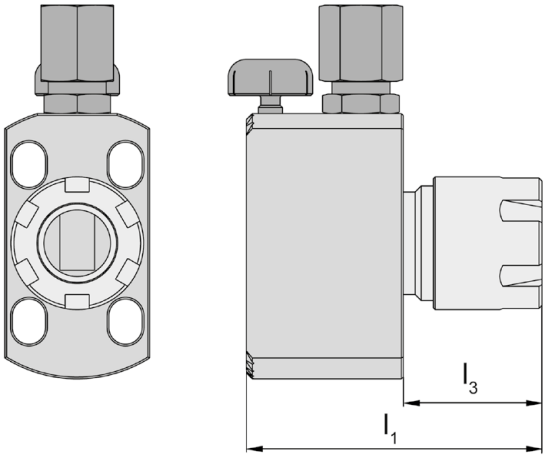


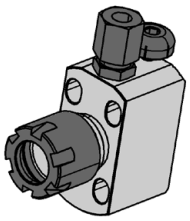
Bestellnummer Part number	l_1	l_3	Spannmutter Clamping nut
N.07	37	18	ER16

Einstellbare Halter
Adjustable holder

N







Bestellnummer Part number	l_1	l_3	Spannmutter Clamping nut
N.07.IK	54	18	ER16
N.41.IK	64	26	ER20

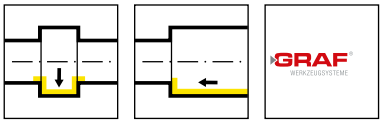
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

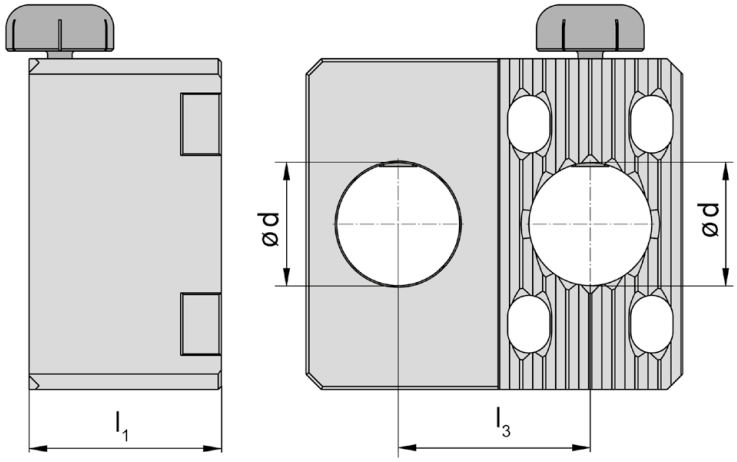
Ersatzteile
Spare Parts

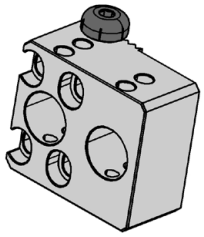
Einstellbare Halter Adjustable holder	**Kühlmittelanschluss** Coolant supply
N...	**004.00.19**

Einstellbare Halter
Adjustable holder

N



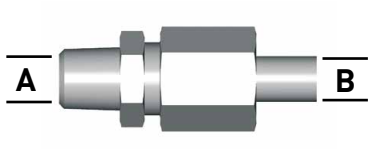




Bestellnummer Part number	d	l_1	l_3
N.10	16	25	25

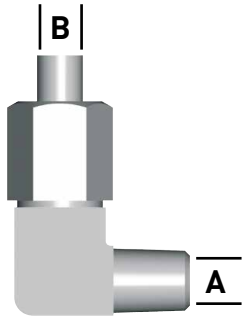
Die Spannzangenaufnahmen sind nicht im Lieferumfang enthalten - bitte separat bestellen!
The collet adaptors are not included - separate order required!

Kühlmittelanschluss Standard für Rohr Ø 6 mm
Standard connection for coolant supply for pipe Ø 6 mm



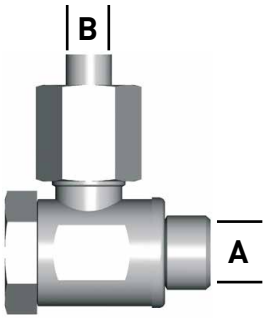
Kühlmittelanschluss, gerade
Connection for coolant supply
straight screwed

Bestellnummer Part number	A	B
004.00.19	M8 x 1	ø 6 mm
004.00.14	G1/8''	ø 6 mm



Kühlmittelanschluss,
winkelig fest
Connection for coolant supply
angeled and fix

Bestellnummer Part number	A	B
004.00.22	M8 x 1	ø 6 mm
004.00.33	G1/8''	ø 6 mm



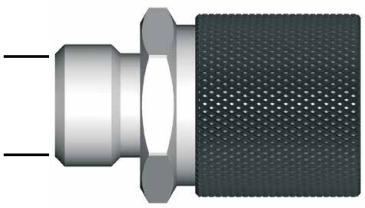
Schwenkverschraubung
Swivelling screw-fitting

Bestellnummer Part number	A	B
004.00.61	M8 x 1	ø 6 mm
004.00.16	G1/8''	ø 6 mm

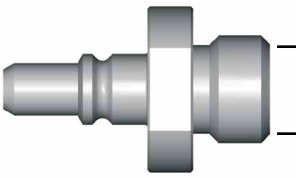
Kühlmittelanschluss Schnellkupplung
Clip connection for coolant supply

Schnellkupplung
Quick connector

M10 x 1 - 004.00.49

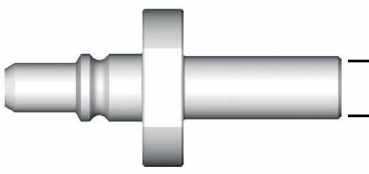


Stecker
Plug



M8 x 1 - 004.00.56
G1/8" - 004.00.57

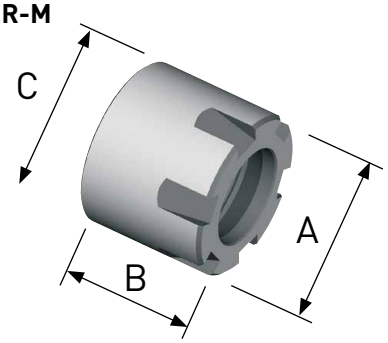
Stecker
Plug



Ø 6 mm - 004.00.59

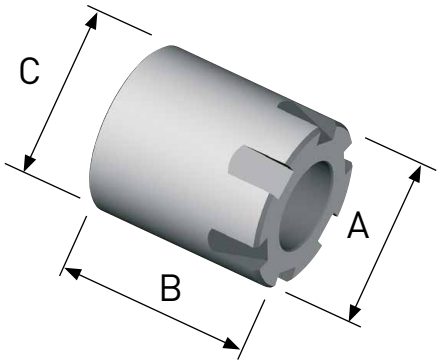
Spannmutter
Chucking nut

ER-M



ER-M	A	B	C
62 000 08-ER 8	12	10,8	M10x0,75
62 000 11-ER 11	16	12	M13x0,75
62 000 16-ER 16	22	18	M19x1
62 000 20-ER 20	28	19	M24x1
62 000 25-ER 25	35	20	M30x1

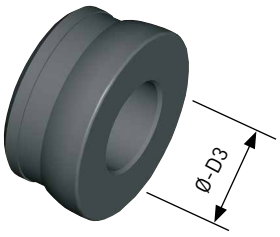
ER-MA abdichtbar
sealed



ER-MA	A	B	C
62 600 16-ER 16	22	24,5	M19x1
62 600 20-ER 20	28	26,5	M24x1
62 600 25-ER 25	35	27,5	M30x1

Dichtscheiben
für abdichtbare Spannmutter ER-MA...

Sealing rings
for chucking nuts ER-MA...



kompletter Satz:
completed set:

Bestellnummer Part number	Ø D3
64 600 16-ER 16	3,0-3,5...9,5-10,0 mm
64 600 20-ER 20	3,0-3,5...12,5-13,0 mm
64 600 25-ER 25	3,0-3,5...15,5-16,0 mm

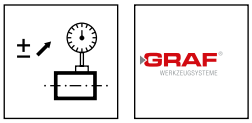
Die Dichtscheiben können auch einzeln bestellt werden.
The sealing rings can be ordered seperately.

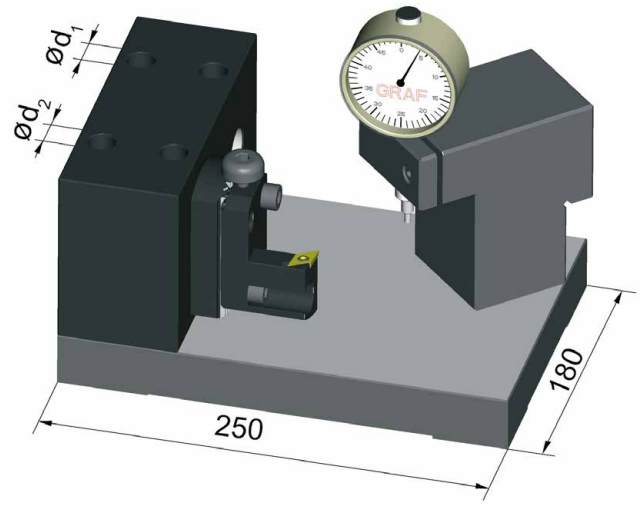
Beispiel:
Example:

Bestellnummer Part number	Durchmesserbereich Diameter range	möglich von-bis possible from-up to
ER 16 64 600 16 **30**	3,01 - 3,50	3 - 10
ER 20 64 600 20 **45**	4,51 - 5,00	3 - 13
ER 25 64 600 25 **80**	8,01 - 8,50	3 - 16

Höheneinstellvorrichtung
Device for height adjusting

HVR.40



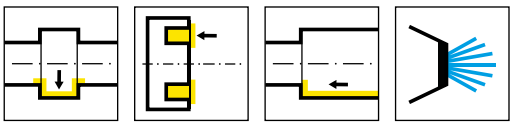


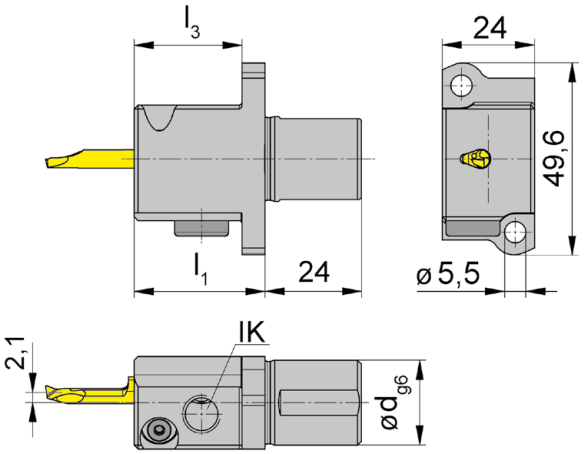
Bestellnummer Part number	d_1	d_2	Maschinentyp Machine type
HVR.40.16.22	16	22	Star
HVR.40.20.22	20	22	Star
HVR.40.20.25	20	25	Tornos
HVR.40.20.28	20	28	Hanwha
HVR.40.25.28	25	28	Hanwha
HVR.40.25.33	25	33	Hanwha
HVR.40.25.34	25	34	Hanwha
HVR.40.30.34	30	34	Maier
HVR.40.34.10	3/4"	1"	Citizen

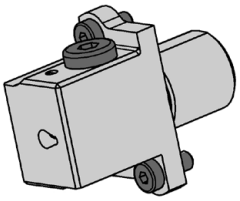
Abmessungen in inch und mm
Dimensions in inch and mm

Klemmhalter
Toolholder

B105







L = Linksausführung
L = left hand version

Bestellnummer Part number	d	l_1	l_3	HWS	HMS
LB105.A022.26.31	22	35	29	105123 • 105124 • 105125	Star

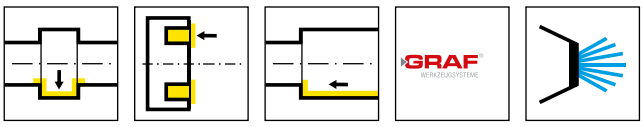
Star Langdrehautomaten:
ECAS-12/20, SB16D/E, SR-20, SR20J/JN, RS-20RII, RS-20RIII, RS-20RIV, RS-32J/JN, SW-12RIII
Swiss Type Machines Star:
ECAS-12/20, SB16D/E, SR-20, SR20J/JN, RS-20RII, RS-20RIII, RS-20RIV, RS-32J/JN, SW-12RII

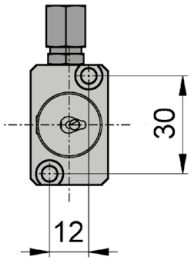
Ersatzteile
Spare Parts

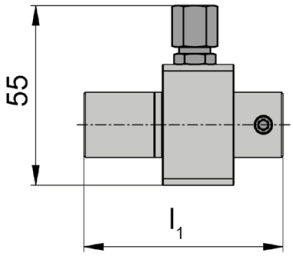
Klemmhalter Toolholder	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench	**Verschlussschraube** Screw Plug
LB105.A022.26.31	**T10PL**	**18.908**

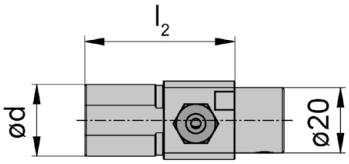
Klemmhalter
Toolholder

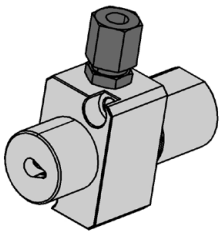
HF.N











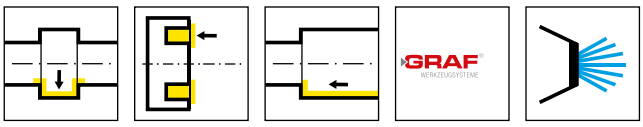
Bestellnummer Part number	d	l_1	l_2	HWS
RHF.N.145.H105.S1.IK	22	61	46	105123 • 105124 • 105125

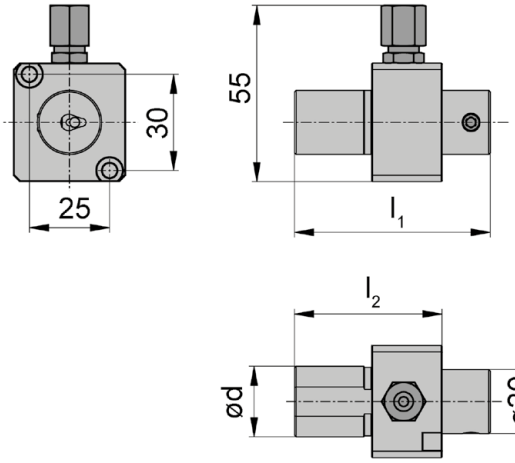
Star Langdrehautomaten: SW-20
Swiss Type Machines Star: SW-20

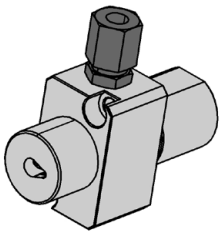
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

Klemmhalter
Toolholder

HF.N







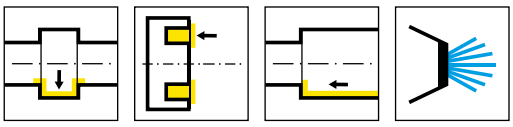
Bestellnummer Part number	d	l_1	l_2	HWS
RHF.N.151.H105.S2.IK	22	61	46	105123 • 105124 • 105125

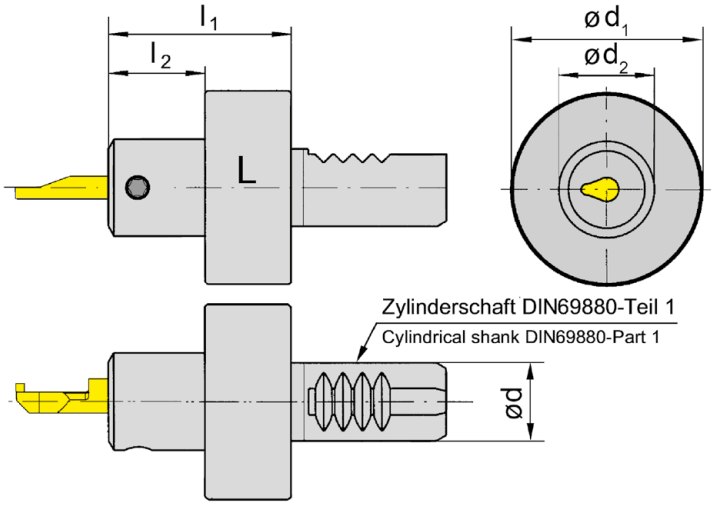
Star Langdrehautomaten: SW-20
Swiss Type Machines Star: SW-20

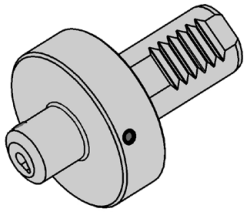
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

Klemmhalter
Toolholder

VDI







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

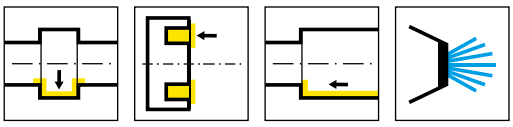
Bestellnummer Part number	d	l_1	l_2	d_2	d_1	HWS
VDI16.R105.20.01	16	38	20	20	40	105123 • 105124 • 105125
VDI20.R105.20.01	20	38	20	20	50	105123 • 105124 • 105125
VDI25.R105.20.01	25	38	20	20	58	105123 • 105124 • 105125
VDI30.R105.20.01	30	38	20	20	68	105123 • 105124 • 105125
VDI40.R105.20.01	40	38	20	20	83	105123 • 105124 • 105125
VDI16.L105.20.01	16	38	20	20	40	105123 • 105124 • 105125
VDI20.L105.20.01	20	38	20	20	50	105123 • 105124 • 105125
VDI25.L105.20.01	25	38	20	20	58	105123 • 105124 • 105125
VDI30.L105.20.01	30	38	20	20	68	105123 • 105124 • 105125
VDI40.L105.20.01	40	38	20	20	83	105123 • 105124 • 105125

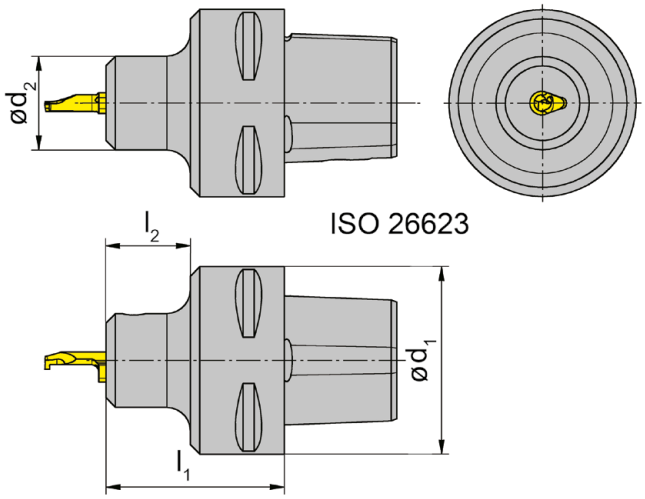
Ersatzteile
Spare Parts

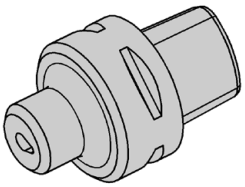
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
VDI16...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105C







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

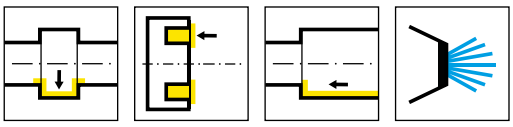
Bestellnummer Part number	d_1	d_2	l_1	l_2	HWS
RB105.00C3.20.1.01	32	20	30	15	105123 • 105124 • 105125
RB105.00C4.20.1.01	40	20	38	18	105123 • 105124 • 105125
RB105.00C5.20.1.01	50	20	38	18	105123 • 105124 • 105125
RB105.00C6.20.1.01	63	20	42	20	105123 • 105124 • 105125
LB105.00C3.20.1.01	32	20	30	15	105123 • 105124 • 105125
LB105.00C4.20.1.01	40	20	38	18	105123 • 105124 • 105125
LB105.00C5.20.1.01	50	20	38	18	105123 • 105124 • 105125
LB105.00C6.20.1.01	63	20	42	20	105123 • 105124 • 105125

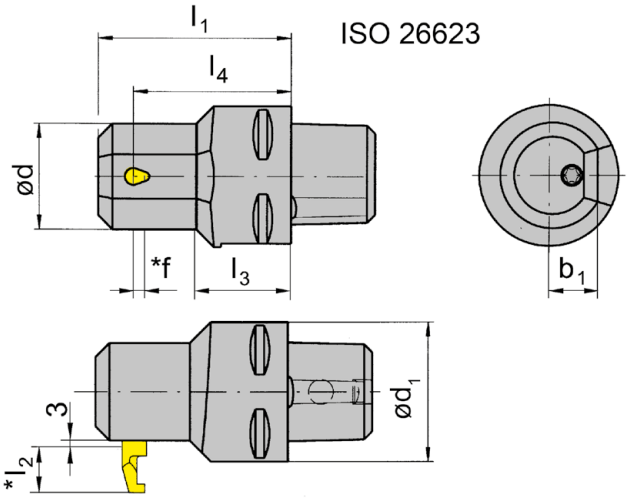
Ersatzteile
Spare Parts

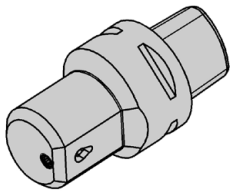
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105C







Bestellnummer Part number	d_1	l_3	d	l_1	b_1	l_4	Maschinentyp Machine type	HWS
RB105.00C3.2.2.01	32	17	30	55	14	45	INDEX MS32	105123 • 105124 • 105125
RB105.00C3.2.2.02	32	15	36	55	18	45	INDEX MS32	105123 • 105124 • 105125
RB105.00C4.2.2.01	40	26	30	55	14	45	INDEX MS52	105123 • 105124 • 105125
RB105.00C4.2.2.02	40	22	36	55	18	45	INDEX MS52	105123 • 105124 • 105125

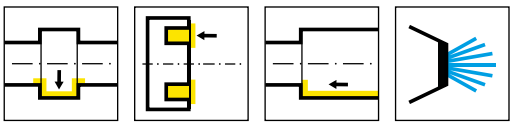
f, l2 siehe Schneidplatte Typ 105
f, l2 see inserts type 105

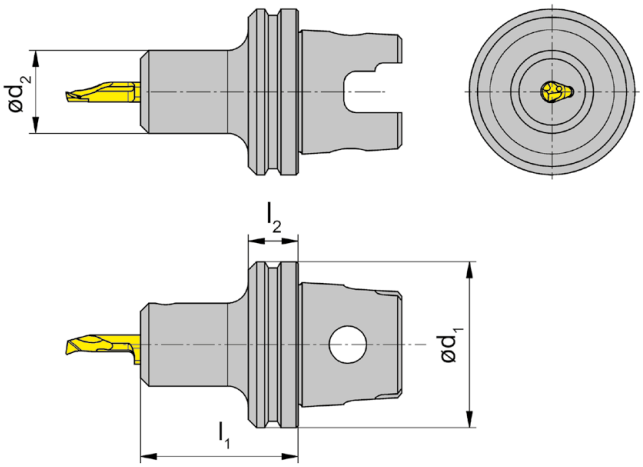
Ersatzteile
Spare Parts

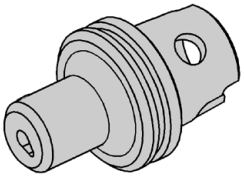
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
RB105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105TS







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

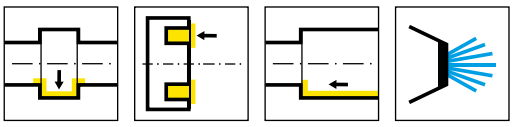
Bestellnummer Part number	d_1	d_2	l_1	l_2	HWS
RB105.TS40.20.1.01	40	20	38	26	105123 • 105124 • 105125
LB105.TS40.20.1.01	40	20	38	26	105123 • 105124 • 105125

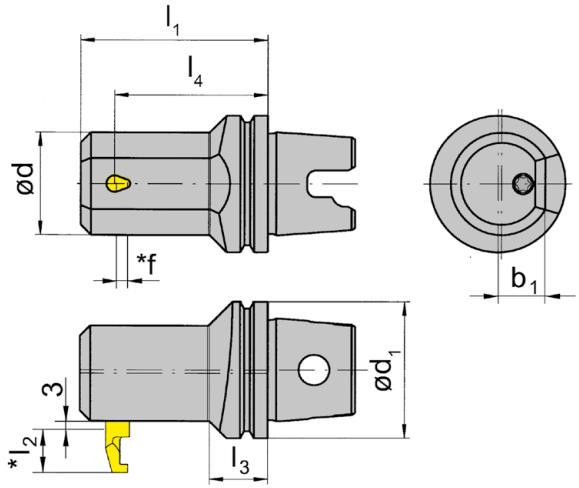
Ersatzteile
Spare Parts

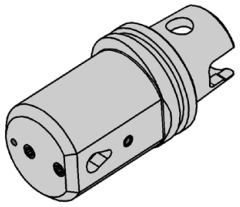
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB105.TS40.20.1.01	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105TS







R = rechts wie gezeichnet
R = right hand version shown

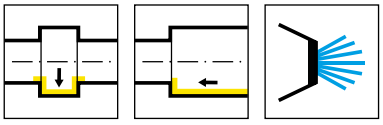
L = links spiegelbildlich
L = left hand version

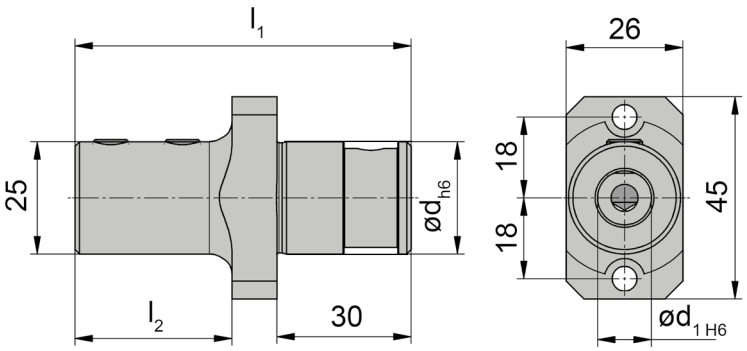
Bestellnummer Part number	d_1	l_3	d	l_1	b_1	l_4	HWS
RB105.TS40.2.2.01	40	17	30	55	14	45	105123 • 105124 • 105125
RB105.TS40.2.2.02	40	14	36	55	18	45	105123 • 105124 • 105125
RB105.TS50.2.2.01	50	26	30	55	14	45	105123 • 105124 • 105125
RB105.TS50.2.2.02	50	22	36	55	18	45	105223 • 105224 • 105225

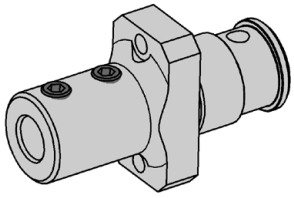
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
RB105...	**6.075T15P**	**T15PQ**

Bohrstangen-Aufnahme 001C
Adaptor for boring bars







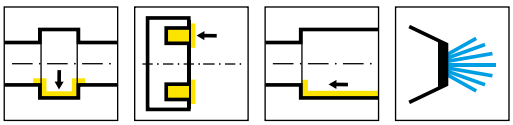
Bestellnummer Part number	d	l_1	d_1	l_2	Maschinentyp Machine type
001.C025.12.30IK	25	75	12	35	Citizen L20X/

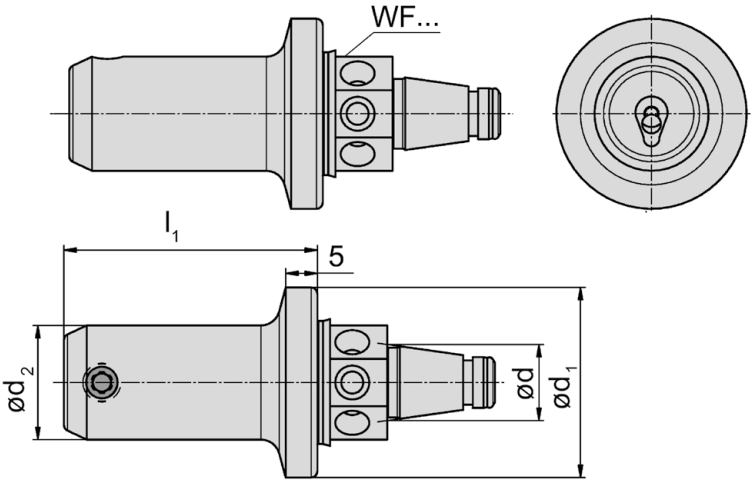
Ersatzteile
Spare Parts

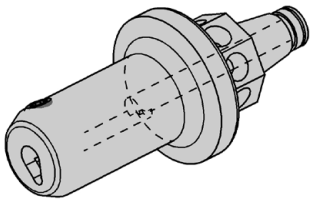
Bohrstangen-Aufnahme Adaptor for boring bars	**Spannschraube** Clamping Screw
001.C025.12.30IK	**8.075.1835**

Klemmhalter
Toolholder

WFB.105







Bestellnummer Part number	d_1	l_1	d	d_2	HWS	HMS
WFB.2HO.105	30	40	12	18	105123 • 105124 • 105125	WFB
WFB.2HO.105.055	30	55	12	18	105123 • 105124 • 105125	WFB
WFB.3HO.105	50	40	20	18	105123 • 105124 • 105125	WFB
WFB.3HO.105.055	50	55	20	18	105123 • 105124 • 105125	WFB

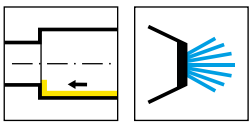
Ersatzteile
Spare Parts

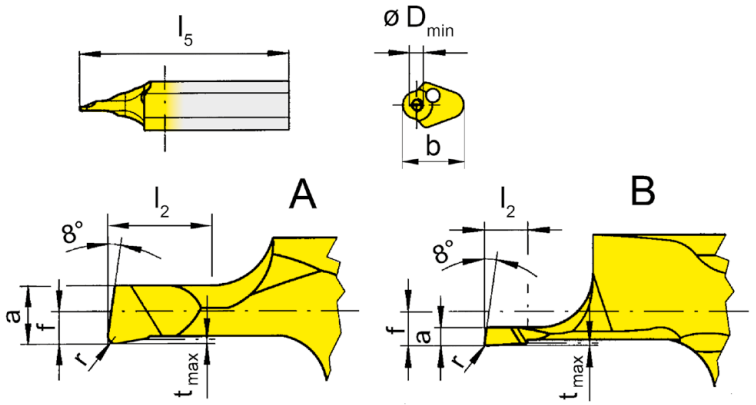
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
WFB.2HO.10...	**6.075T15P**	**T15PQ**
WFB.3HO.10...		

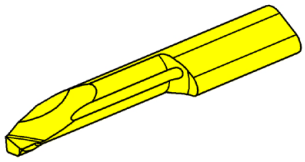
Schneidplatte
Insert

105

Ø ≥ 0,2 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

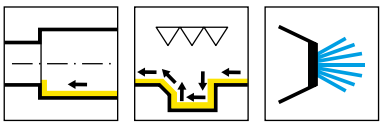
Bestellnummer Part number	r	f	a	b	l_2	l_5	t_{max}	D_{min}	Form	HIS	HM-Sorten Carbide grades MG12	 EG35
R105.1802.0.02	0,02	1	0,17	5,9	1	23	0,02	0,2	B	105123	▲	Δ
R105.1802.0.03	0,02	1	0,25	5,9	1	23	0,02	0,3	B	105123	▲	Δ
R105.1802.0.05	0,05	1	0,4	5,9	2	23	0,05	0,5	B	105123	▲	Δ
R105.1803.0.07	0,05	0,3	0,6	5,9	2	23	0,05	0,7	A	105123	▲	▲
L105.1802.0.02	0,02	1	0,17	5,9	1	23	0,02	0,2	B	105123	Δ	Δ
L105.1802.0.03	0,02	1	0,25	5,9	1	23	0,02	0,3	B	105123	Δ	Δ
L105.1802.0.05	0,05	1	0,4	5,9	2	23	0,05	0,5	B	105123	▲	Δ
L105.1803.0.07	0,05	0,3	0,6	5,9	2	23	0,05	0,7	A	105123	▲	Δ

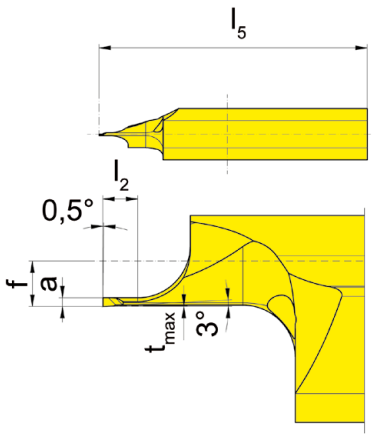
P	o	●
M	-	●
K	-	o
N	-	-
S	-	-
H	-	-

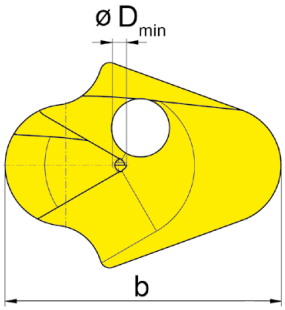
Schneidplatte
Insert

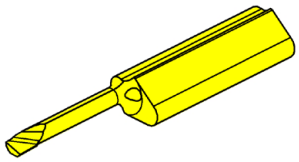
105

Ø ≥ 0,2 mm









R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

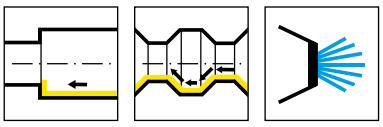
Bestellnummer Part number	f	a	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	AN25	ES15
R105.9013.000.0.02	1,3	0,17	5,9	1	23	0,015	0,2	105123		Δ	Δ
R105.9013.000.0.03	1,3	0,25	5,9	1	23	0,015	0,3	105123		Δ	Δ
R105.9013.000.0.05	1,3	0,4	5,9	2	23	0,02	0,5	105123	Δ	Δ	Δ
R105.9013.000.0.07	1,3	0,6	5,9	2	23	0,02	0,7	105123		Δ	▲

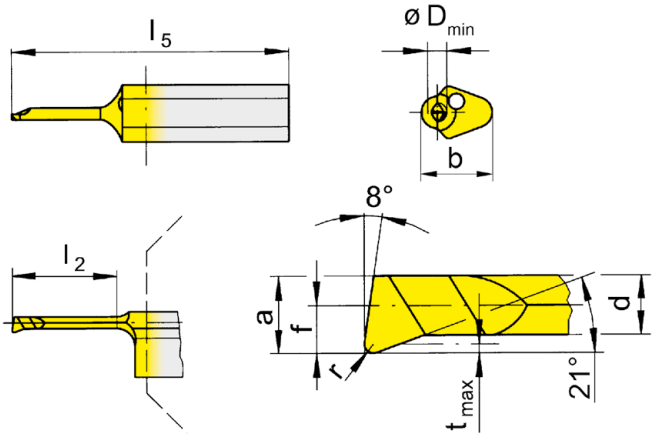
P	o	●	●
M	-	o	●
K	-	-	o
N	-	-	-
S	-	-	-
H	-	-	-

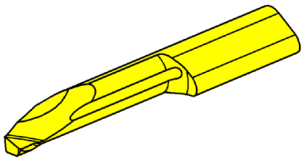
Schneidplatte
Insert

105

Ø ≥ 1 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

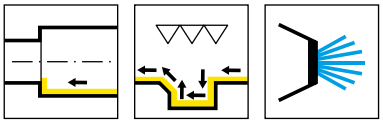
Δ 4 Wochen
4 weeks

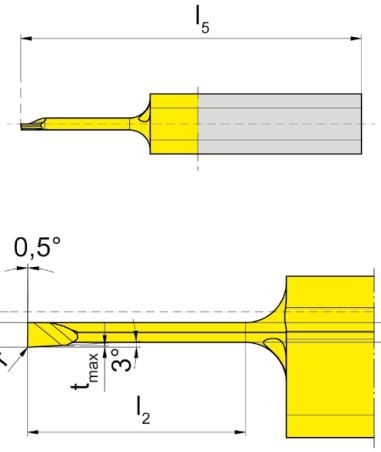
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.1805.005.0.1	0,05	0,5	0,9	0,65	5,9	4	25	0,1	1	105123		▲	▲			
R105.1805.005.1.1	0,05	0,5	0,9	0,65	5,9	6	25	0,1	1	105123		Δ	▲			
R105.1805.005.2.1	0,05	0,5	0,9	0,65	5,9	8	25	0,1	1	105123		Δ	▲	Δ		
R105.1805.0.1	0,1	0,5	0,9	0,65	5,9	4	25	0,1	1	105123	▲	▲	Δ		▲	▲
R105.1805.1.1	0,1	0,5	0,9	0,65	5,9	6	25	0,1	1	105123	Δ	▲			▲	▲
R105.1805.2.1	0,1	0,5	0,9	0,65	5,9	8	25	0,1	1	105123		▲			▲	▲
R105.1813.005.0.15	0,05	1,3	1,4	1,1	5,9	6	25	0,15	1,5	105123		▲	▲	Δ		
R105.1813.005.1.15	0,05	1,3	1,4	1,1	5,9	9	25	0,15	1,5	105123		▲	▲	Δ		
R105.1813.005.2.15	0,05	1,3	1,4	1,1	5,9	12	30	0,15	1,5	105123		▲	▲	Δ		
R105.1813.01.0.15	0,1	1,3	1,4	1,1	5,9	6	25	0,15	1,5	105123		▲		▲	▲	
R105.1813.01.1.15	0,1	1,3	1,4	1,1	5,9	9	25	0,15	1,5	105123		Δ		▲	▲	
R105.1813.01.2.15	0,1	1,3	1,4	1,1	5,9	12	30	0,15	1,5	105123		Δ		▲	▲	
L105.1805.005.0.1	0,05	0,5	0,9	0,65	5,9	4	25	0,1	1	105123		Δ	▲			
L105.1805.005.1.1	0,05	0,5	0,9	0,65	5,9	6	25	0,1	1	105123		Δ	▲			
L105.1805.005.2.1	0,05	0,5	0,9	0,65	5,9	8	25	0,1	1	105123			▲			
L105.1805.0.1	0,1	0,5	0,9	0,65	5,9	4	25	0,1	1	105123		▲			▲	▲
L105.1805.1.1	0,1	0,5	0,9	0,65	5,9	6	25	0,1	1	105123		▲			▲	▲
L105.1805.2.1	0,1	0,5	0,9	0,65	5,9	8	25	0,1	1	105123		Δ			Δ	▲
L105.1813.005.0.15	0,05	1,3	1,4	1,1	5,9	6	25	0,15	1,5	105123		Δ	▲	Δ		
L105.1813.005.1.15	0,05	1,3	1,4	1,1	5,9	9	25	0,15	1,5	105123		Δ	▲			
L105.1813.005.2.15	0,05	1,3	1,4	1,1	5,9	12	30	0,15	1,5	105123		Δ	Δ			
L105.1813.01.0.15	0,1	1,3	1,4	1,1	5,9	6	25	0,15	1,5	105123		Δ		▲	▲	
L105.1813.01.1.15	0,1	1,3	1,4	1,1	5,9	9	25	0,15	1,5	105123		Δ		▲	▲	
L105.1813.01.2.15	0,1	1,3	1,4	1,1	5,9	12	30	0,15	1,5	105123		Δ		▲	▲	
P											o	●	●	●	●	●
M											-	●	●	●	●	●
K											-	o	●	●	●	●
N											-	-	●	●	●	●
S											-	-	●	●	●	●
H											-	-	-	-	-	-

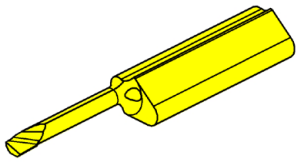
Schneidplatte
Insert

105

Ø ≥ 1 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

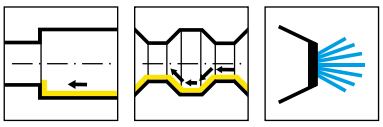
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	AN25	ES15
R105.9013.000.0.1	-	1,3	0,9	0,72	5,9	4	25	0,05	1	105123	▲	▲
R105.9013.000.2.1	-	1,3	0,9	0,72	5,9	8	25	0,05	1	105123	Δ	Δ
R105.9013.003.0.1	0,03	1,3	0,9	0,72	5,9	4	25	0,05	1	105123	▲	Δ
R105.9013.003.2.1	0,03	1,3	0,9	0,72	5,9	8	25	0,05	1	105123	▲	Δ
R105.9013.000.0.15	-	1,3	1,4	1,15	5,9	6	25	0,1	1,5	105123	▲	▲
R105.9013.000.1.15	-	1,3	1,4	1,15	5,9	9	25	0,1	1,5	105123	Δ	Δ
R105.9013.003.0.15	0,03	1,3	1,4	1,15	5,9	6	25	0,1	1,5	105123	▲	▲
R105.9013.003.1.15	0,03	1,3	1,4	1,15	5,9	9	25	0,1	1,5	105123	▲	Δ

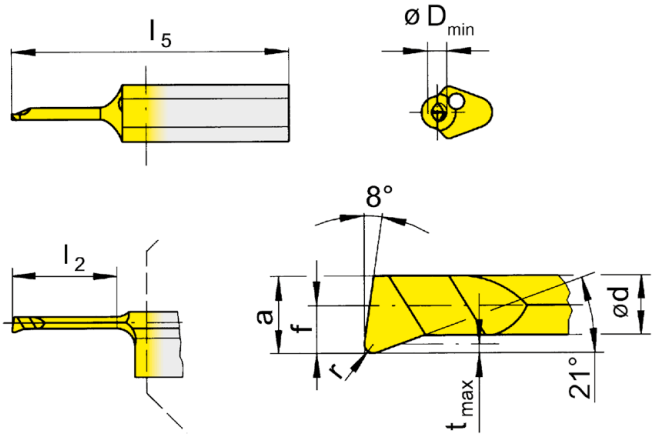
P	●	●
M	o	●
K	-	o
N	-	-
S	-	-
H	-	-

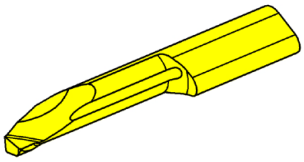
Schneidplatte
Insert

105

Ø ≥ 2 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

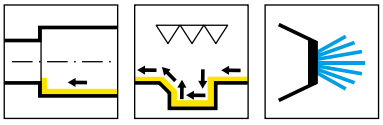
Δ 4 Wochen
4 weeks

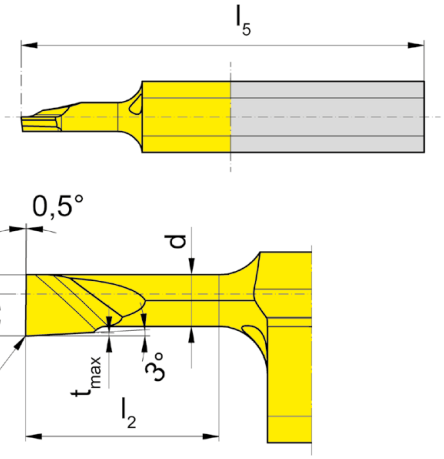
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		MG12	EG35	TF45	TH35	TI25	TN35
R105.1809.005.0.2	0,05	1	1,9	1,6	5,9	6	25	0,15	2	105123			▲	▲	Δ	Δ	Δ
R105.1809.005.1.2	0,05	1	1,9	1,6	5,9	9	25	0,15	2	105123		Δ	Δ	▲			Δ
R105.1809.005.2.2	0,05	1	1,9	1,6	5,9	12	30	0,15	2	105123			Δ	▲	Δ	Δ	Δ
R105.1809.01.0.2	0,1	1	1,9	1,6	5,9	6	25	0,15	2	105123			Δ		▲	▲	
R105.1809.01.1.2	0,1	1	1,9	1,6	5,9	9	25	0,15	2	105123			▲	Δ	▲	▲	
R105.1809.01.2.2	0,1	1	1,9	1,6	5,9	12	30	0,15	2	105123			Δ		▲	▲	
R105.1809.0.2	0,15	1	1,9	1,6	5,9	6	25	0,15	2	105123		▲	▲		▲	▲	▲
R105.1809.1.2	0,15	1	1,9	1,6	5,9	9	25	0,15	2	105123		▲	▲		▲	▲	▲
R105.1809.2.2	0,15	1	1,9	1,6	5,9	12	30	0,15	2	105123		▲	▲		▲	▲	▲
R105.1813.005.0.25	0,05	1,3	2,3	1,95	5,9	6	25	0,15	2,5	105123			▲	Δ	▲		
R105.1813.005.1.25	0,05	1,3	2,3	1,95	5,9	9	25	0,15	2,5	105123			▲	▲	Δ		
R105.1813.005.2.25	0,05	1,3	2,3	1,95	5,9	12	30	0,15	2,5	105123			Δ	▲	▲		
R105.1813.005.3.25	0,05	1,3	2,3	1,95	5,9	16	35	0,15	2,5	105123			▲	▲	Δ		
L105.1809.005.0.2	0,05	1	1,9	1,6	5,9	6	25	0,15	2	105123			Δ	▲	Δ		
L105.1809.005.1.2	0,05	1	1,9	1,6	5,9	9	25	0,15	2	105123			Δ	▲	Δ		
L105.1809.005.2.2	0,05	1	1,9	1,6	5,9	12	30	0,15	2	105123			Δ	▲			
L105.1809.01.0.2	0,1	1	1,9	1,6	5,9	6	25	0,15	2	105123			Δ		▲	▲	
L105.1809.01.1.2	0,1	1	1,9	1,6	5,9	9	25	0,15	2	105123			Δ		▲	Δ	
L105.1809.01.2.2	0,1	1	1,9	1,6	5,9	12	30	0,15	2	105123			Δ		▲	▲	
L105.1809.0.2	0,15	1	1,9	1,6	5,9	6	25	0,15	2	105123		Δ	▲		▲	▲	▲
L105.1809.1.2	0,15	1	1,9	1,6	5,9	9	25	0,15	2	105123		Δ	▲		▲	▲	▲
L105.1809.2.2	0,15	1	1,9	1,6	5,9	12	30	0,15	2	105123		Δ	▲		▲	▲	▲
L105.1813.005.0.25	0,05	1,3	2,3	1,95	5,9	6	25	0,15	2,5	105123			Δ		▲		
L105.1813.005.1.25	0,05	1,3	2,3	1,95	5,9	9	25	0,15	2,5	105123			Δ	▲			
L105.1813.005.2.25	0,05	1,3	2,3	1,95	5,9	12	30	0,15	2,5	105123			Δ	▲	Δ		
L105.1813.005.3.25	0,05	1,3	2,3	1,95	5,9	16	35	0,15	2,5	105123			Δ	▲	Δ		
											P	o	●	●	●	●	●
											M	-	●	●	●	●	●
											K	-	o	●	●	●	●
											N	-	-	●	●	●	●
											S	-	-	●	●	●	●
											H	-	-	-	-	-	-

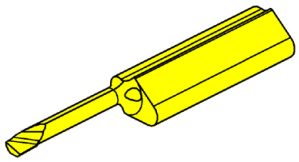
Schneidplatte
Insert

105

Ø ≥ 2 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

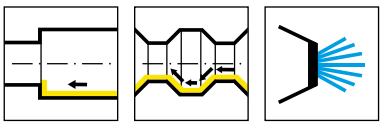
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	AN25	ES15
R105.9013.000.0.2	-	1,3	1,9	1,6	5,9	6	25	0,1	2	105123		▲	▲
R105.9013.000.2.2	-	1,3	1,9	1,6	5,9	12	30	0,1	2	105123		Δ	Δ
R105.9013.003.0.2	0,03	1,3	1,9	1,6	5,9	6	25	0,1	2	105123		▲	▲
R105.9013.003.2.2	0,03	1,3	1,9	1,6	5,9	12	30	0,1	2	105123		Δ	Δ
R105.9013.000.0.25	-	1,3	2,3	2	5,9	6	25	0,1	2,5	105123		Δ	Δ
R105.9013.000.2.25	-	1,3	2,3	2	5,9	12	30	0,1	2,5	105123	Δ	Δ	Δ
R105.9013.000.3.25	-	1,3	2,3	2	5,9	16	35	0,1	2,5	105123		Δ	Δ
R105.9013.003.0.25	0,03	1,3	2,3	2	5,9	6	25	0,1	2,5	105123		▲	▲
R105.9013.003.2.25	0,03	1,3	2,3	2	5,9	12	30	0,1	2,5	105123	Δ	Δ	Δ
R105.9013.003.3.25	0,03	1,3	2,3	2	5,9	16	35	0,1	2,5	105123		Δ	Δ

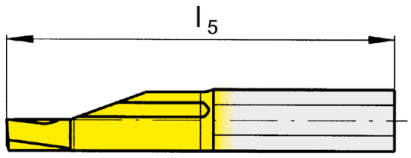
P	o	●	●
M	-	o	●
K	-	-	o
N	-	-	-
S	-	-	-
H	-	-	-

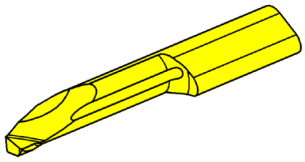
Schneidplatte
Insert

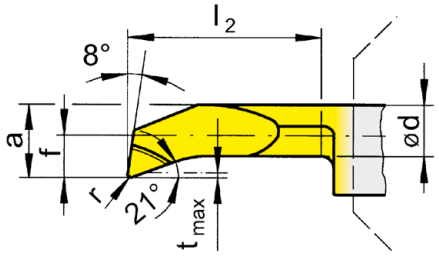
105

Ø ≥ 3 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

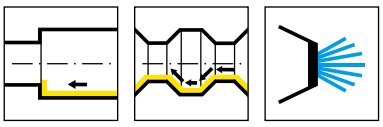
HM-Sorten
Carbide grades

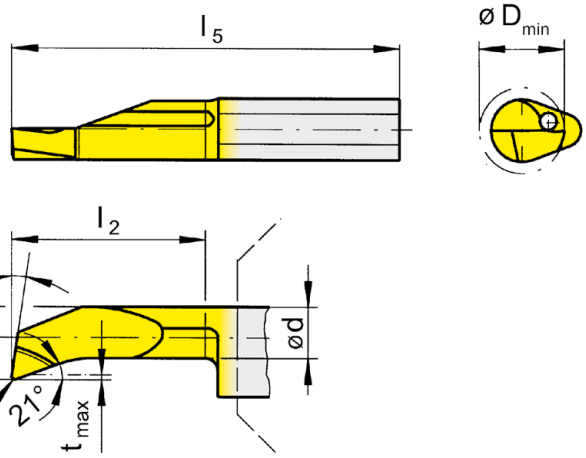
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.1813.005.1.3	0,05	1,3	2,6	2,3	5,9	10	25	0,15	3	105123		▲	▲	Δ	Δ	Δ
R105.1813.005.2.3	0,05	1,3	2,6	2,3	5,9	15	30	0,15	3	105123		Δ	▲			Δ
R105.1813.005.3.3	0,05	1,3	2,6	2,3	5,9	20	35	0,15	3	105123		Δ	▲		Δ	
R105.1813.01.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123		▲		▲	▲	
R105.1813.01.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123		▲		▲	▲	
R105.1813.01.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123		Δ		▲	▲	
R105.1813.1.3	0,2	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲	▲	Δ	▲	▲	▲
R105.1813.2.3	0,2	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲	▲	Δ	▲	▲	▲
R105.1813.3.3	0,2	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	▲	▲		▲	▲	▲
L105.1813.005.1.3	0,05	1,3	2,6	2,3	5,9	10	25	0,15	3	105123		Δ	▲			
L105.1813.005.2.3	0,05	1,3	2,6	2,3	5,9	15	30	0,15	3	105123		Δ	▲			
L105.1813.005.3.3	0,05	1,3	2,6	2,3	5,9	20	35	0,15	3	105123		Δ	▲			
L105.1813.01.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123		Δ		▲	▲	
L105.1813.01.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123		Δ		▲	▲	
L105.1813.01.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123		Δ		▲	▲	
L105.1813.1.3	0,2	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲	▲		▲	▲	▲
L105.1813.2.3	0,2	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲	▲		▲	▲	▲
L105.1813.3.3	0,2	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	Δ	▲		▲	▲	▲
											P	o	●	●	●	●	●
											M	-	●	●	●	●	●
											K	-	o	●	●	●	●
											N	-	-	●	●	●	●
											S	-	-	●	●	●	●
											H	-	-	-	-	-	-

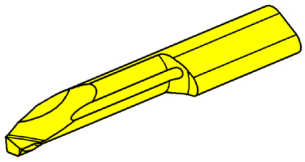
Schneidplatte
Insert

105

Ø ≥ 4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

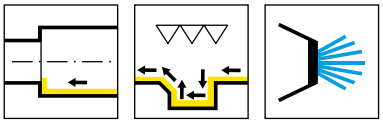
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS
R105.1819.005.1.4	0,05	1,9	3,7	2,9	6,4	10	25	0,3	4	105124
R105.1819.005.2.4	0,05	1,9	3,7	2,9	6,4	15	30	0,3	4	105124
R105.1819.005.3.4	0,05	1,9	3,7	2,9	6,4	20	35	0,3	4	105124
R105.1819.1.4	0,2	1,9	3,7	2,9	6,4	10	25	0,3	4	105124
R105.1819.2.4	0,2	1,9	3,7	2,9	6,4	15	30	0,3	4	105124
R105.1819.3.4	0,2	1,9	3,7	2,9	6,4	20	35	0,3	4	105124
L105.1819.005.1.4	0,05	1,9	3,7	2,9	6,4	10	25	0,3	4	105124
L105.1819.005.2.4	0,05	1,9	3,7	2,9	6,4	15	30	0,3	4	105124
L105.1819.005.3.4	0,05	1,9	3,7	2,9	6,4	20	35	0,3	4	105124
L105.1819.1.4	0,2	1,9	3,7	2,9	6,4	10	25	0,3	4	105124
L105.1819.2.4	0,2	1,9	3,7	2,9	6,4	15	30	0,3	4	105124
L105.1819.3.4	0,2	1,9	3,7	2,9	6,4	20	35	0,3	4	105124

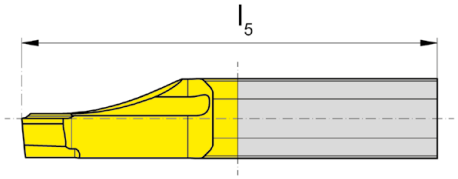
	MG12	EG35	TF45	TH35	TI25	TN35
	▲	▲	▲	Δ	Δ	
		▲	▲			
		▲	▲	Δ		
	▲	▲		▲	▲	▲
	▲	▲	Δ	▲	▲	▲
	▲	▲	Δ	▲	▲	▲
		Δ	▲	Δ		
		Δ	▲			
		Δ	▲	Δ		
	▲	▲		▲	▲	▲
	▲	▲		▲	▲	▲
	▲	▲		▲	▲	▲
P	o	●	●	●	●	●
M	-	●	●	●	●	●
K	-	o	●	●	●	●
N	-	-	●	●	●	●
S	-	-	●	●	●	●
H	-	-	-	-	-	-

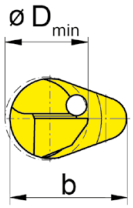
Schneidplatte
Insert

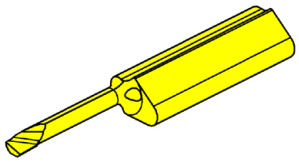
105

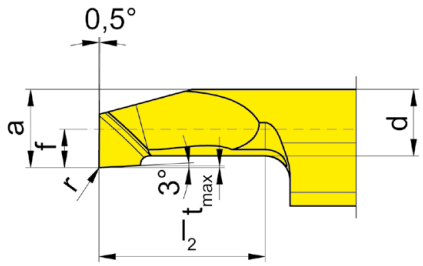
Ø ≥ 3 mm











R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

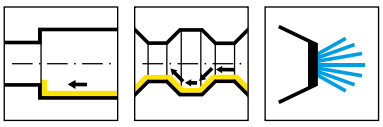
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	AN25	ES15
R105.9013.000.1.3	-	1,3	2,6	2,3	5,9	10	25	0,1	3	105123	▲	▲
R105.9013.000.3.3	-	1,3	2,6	2,3	5,9	20	35	0,1	3	105123	Δ	Δ
R105.9013.003.1.3	0,03	1,3	2,6	2,3	5,9	10	25	0,1	3	105123	▲	▲
R105.9013.003.3.3	0,03	1,3	2,6	2,3	5,9	20	35	0,1	3	105123	Δ	▲
R105.9019.000.1.4	-	1,9	3,7	3,2	6,4	10	25	0,1	4	105124	▲	Δ
R105.9019.000.3.4	-	1,9	3,7	3,2	6,4	20	35	0,1	4	105124	Δ	Δ
R105.9019.003.1.4	0,03	1,9	3,7	3,2	6,4	10	25	0,1	4	105124	▲	Δ
R105.9019.003.3.4	0,03	1,9	3,7	3,2	6,4	20	35	0,1	4	105124	▲	Δ

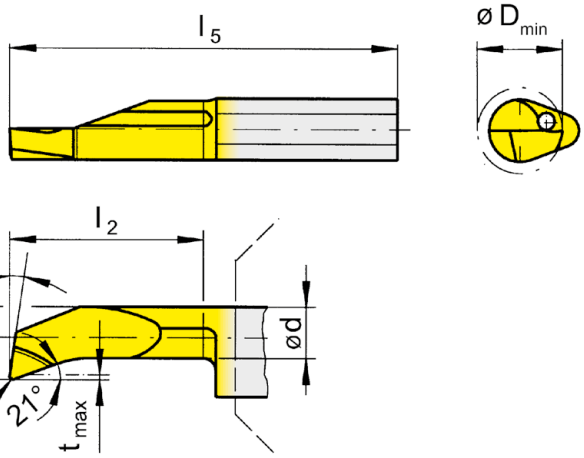
P	●	●
M	o	●
K	-	o
N	-	-
S	-	-
H	-	-

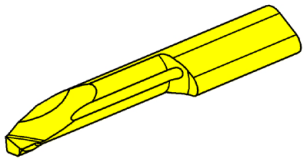
Schneidplatte
Insert

105

Ø ≥ 5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

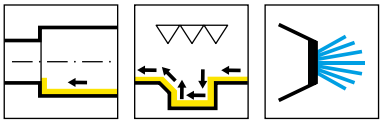
Δ 4 Wochen
4 weeks

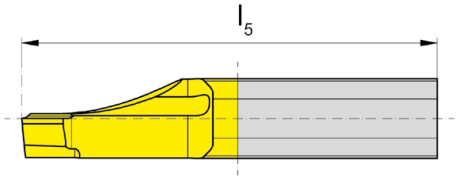
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.1823.005.1.5	0,05	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲	▲	Δ		
R105.1823.005.2.5	0,05	2,3	4,7	4	7	15	30	0,5	5	105125		▲	▲	Δ		Δ
R105.1823.005.3.5	0,05	2,3	4,7	4	7	20	35	0,5	5	105125		Δ	▲	Δ		Δ
R105.1823.005.4.5	0,05	2,3	4,7	4	7	25	40	0,5	5	105125		Δ	▲			Δ
R105.1823.005.5.5	0,05	2,3	4,7	4	7	30	45	0,5	5	105125		Δ	▲	Δ		
R105.1823.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	▲	▲	Δ	▲	▲	▲
R105.1823.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲	▲		▲	▲	▲
R105.1823.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	▲	▲	Δ	▲	▲	▲
R105.1823.4.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	▲	▲		▲	▲	▲
R105.1823.5.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125	▲	▲		▲	▲	▲
L105.1823.005.1.5	0,05	2,3	4,7	4	7	10	25	0,5	5	105125		Δ	▲		Δ	
L105.1823.005.2.5	0,05	2,3	4,7	4	7	15	30	0,5	5	105125		Δ	▲			
L105.1823.005.3.5	0,05	2,3	4,7	4	7	20	35	0,5	5	105125		Δ	▲			
L105.1823.005.4.5	0,05	2,3	4,7	4	7	25	40	0,5	5	105125		▲	▲			
L105.1823.005.5.5	0,05	2,3	4,7	4	7	30	45	0,5	5	105125		Δ	▲			
L105.1823.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	▲	▲		▲	▲	▲
L105.1823.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲	▲		▲	▲	▲
L105.1823.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	▲	▲		▲	▲	▲
L105.1823.4.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	▲	▲		▲	▲	▲
L105.1823.5.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125	▲	▲		▲	▲	▲
											P	o	●	●	●	●	●
											M	-	●	●	●	●	●
											K	-	o	●	●	●	●
											N	-	-	●	●	●	●
											S	-	-	●	●	●	●
											H	-	-	-	-	-	-

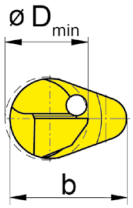
Schneidplatte
Insert

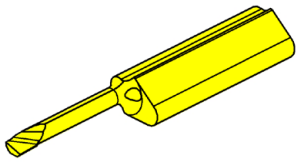
105

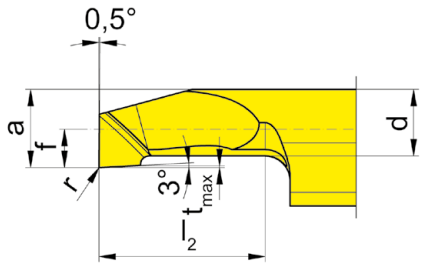
Ø ≥ 5 mm











R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

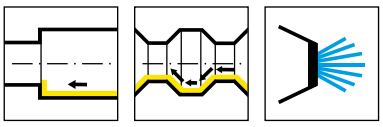
Δ 4 Wochen
4 weeks

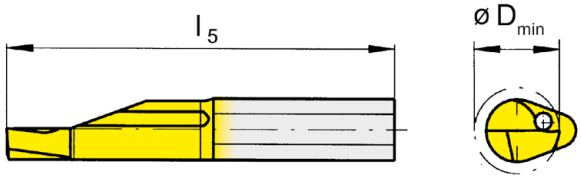
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		AN25	ES15
R105.9023.000.1.5	-	2,3	4,7	4	7	10	25	0,1	5	105125		▲	Δ
R105.9023.000.3.5	-	2,3	4,7	4	7	20	35	0,1	5	105125		Δ	Δ
R105.9023.000.5.5	-	2,3	4,7	4	7	30	45	0,1	5	105125		Δ	Δ
R105.9023.003.1.5	0,03	2,3	4,7	4	7	10	25	0,1	5	105125		▲	Δ
R105.9023.003.3.5	0,03	2,3	4,7	4	7	20	35	0,1	5	105125		Δ	Δ
R105.9023.003.5.5	0,03	2,3	4,7	4	7	30	45	0,1	5	105125		Δ	Δ
											P	●	●
											M	o	●
											K	-	o
											N	-	-
											S	-	-
											H	-	-

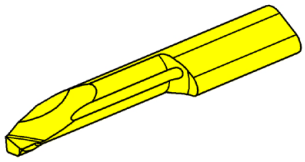
Schneidplatte
Insert

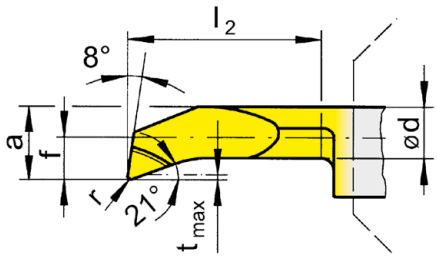
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

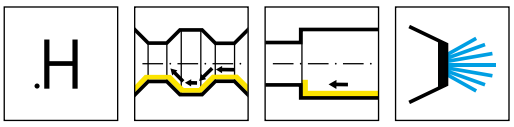
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.1833.005.2.6	0,05	3,3	5,7	4,7	7	15	30	0,5	6	105125		▲	▲			
R105.1833.005.3.6	0,05	3,3	5,7	4,7	7	20	35	0,5	6	105125		Δ	▲			
R105.1833.005.4.6	0,05	3,3	5,7	4,7	7	25	40	0,5	6	105125		Δ	▲			
R105.1833.005.5.6	0,05	3,3	5,7	4,7	7	30	45	0,5	6	105125		Δ	▲			Δ
R105.1833.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	▲	▲		▲	▲	▲
R105.1833.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	▲	▲	Δ	▲	▲	▲
R105.1833.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	▲	▲		▲	▲	▲
R105.1833.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	▲	▲		▲	▲	▲
R105.1840.005.3.7	0,05	4	6,4	5,2	7	20	35	0,5	6,8	105125		Δ	▲			
R105.1840.005.4.7	0,05	4	6,4	5,2	7	25	40	0,5	6,8	105125		Δ	▲			
R105.1840.005.5.7	0,05	4	6,4	5,2	7	30	45	0,5	6,8	105125		Δ	▲			
R105.1840.3.7	0,2	4	6,4	5,2	7	20	35	0,5	6,8	105125	▲	▲	Δ	▲	▲	▲
R105.1840.4.7	0,2	4	6,4	5,2	7	25	40	0,5	6,8	105125	▲	▲	Δ	▲	▲	▲
R105.1840.5.7	0,2	4	6,4	5,2	7	30	45	0,5	6,8	105125	▲	▲		▲	▲	▲
L105.1833.005.2.6	0,05	3,3	5,7	4,7	7	15	30	0,5	6	105125		Δ	▲	Δ		
L105.1833.005.3.6	0,05	3,3	5,7	4,7	7	20	35	0,5	6	105125		Δ	▲			
L105.1833.005.4.6	0,05	3,3	5,7	4,7	7	25	40	0,5	6	105125		Δ	Δ			
L105.1833.005.5.6	0,05	3,3	5,7	4,7	7	30	45	0,5	6	105125		Δ	Δ			
L105.1833.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	▲	▲		▲	▲	▲
L105.1833.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	▲	▲		▲	▲	▲
L105.1833.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	▲	▲		▲	▲	▲
L105.1833.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	▲	▲		▲	▲	▲
L105.1840.005.3.7	0,05	4	6,4	5,2	7	20	35	0,5	6,8	105125		Δ	▲			
L105.1840.005.4.7	0,05	4	6,4	5,2	7	25	40	0,5	6,8	105125		Δ	▲			
L105.1840.005.5.7	0,05	4	6,4	5,2	7	30	45	0,5	6,8	105125		Δ	▲			
L105.1840.3.7	0,2	4	6,4	5,2	7	20	35	0,5	6,8	105125	▲	▲		▲	▲	▲
L105.1840.4.7	0,2	4	6,4	5,2	7	25	40	0,5	6,8	105125	▲	▲		▲	▲	▲
L105.1840.5.7	0,2	4	6,4	5,2	7	30	45	0,5	6,8	105125	▲	▲		▲	▲	▲

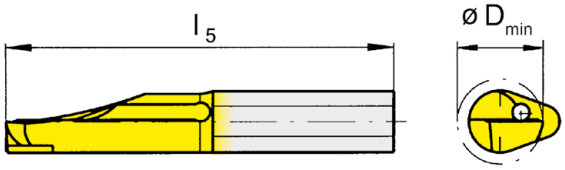
P	o	●	●	●	●	●
M	-	●	●	●	●	●
K	-	o	●	●	●	●
N	-	-	●	●	●	●
S	-	-	●	●	●	●
H	-	-	-	-	-	-

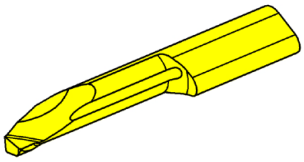
Schneidplatte
Insert

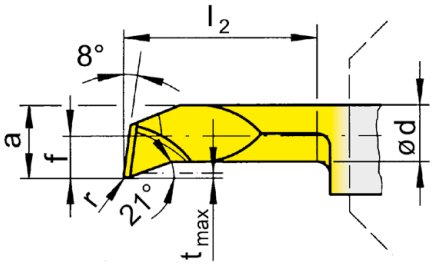
105

Ø ≥ 4 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

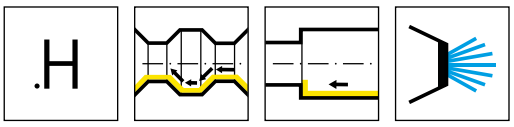
Δ 4 Wochen
4 weeks

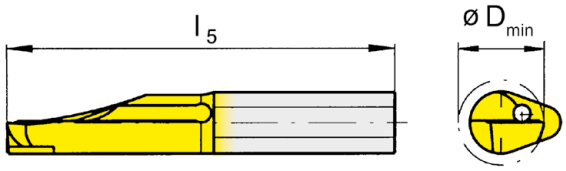
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TF45	TH35
R105.1819.1.H.4	0,2	1,9	3,7	2,9	7	10	25	0,3	4	105125		Δ	▲	▲
R105.1819.2.H.4	0,2	1,9	3,7	2,9	7	15	30	0,3	4	105125		Δ	▲	▲
R105.1819.3.H.4	0,2	1,9	3,7	2,9	7	20	35	0,3	4	105125		Δ	▲	▲
R105.1823.1.H.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125		Δ	▲	▲
R105.1823.2.H.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125		Δ	▲	▲
R105.1823.3.H.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125		▲	▲	▲
R105.1823.4.H.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125		▲	▲	▲
R105.1823.5.H.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125		Δ	▲	▲
L105.1819.1.H.4	0,2	1,9	3,7	2,9	7	10	25	0,3	4	105125		Δ	▲	Δ
L105.1819.2.H.4	0,2	1,9	3,7	2,9	7	15	30	0,3	4	105125		Δ	Δ	Δ
L105.1819.3.H.4	0,2	1,9	3,7	2,9	7	20	35	0,3	4	105125		Δ	▲	▲
L105.1823.1.H.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125		Δ	▲	▲
L105.1823.2.H.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125		Δ	Δ	Δ
L105.1823.3.H.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125		Δ	Δ	▲
L105.1823.4.H.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125		Δ	Δ	Δ
L105.1823.5.H.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125		Δ	Δ	Δ
											P	●	●	●
											M	●	●	●
											K	o	●	●
											N	-	●	●
											S	-	●	●
											H	-	-	-

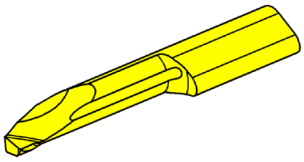
Schneidplatte
Insert

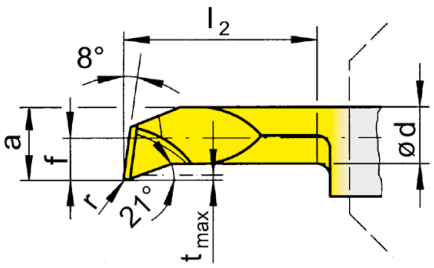
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

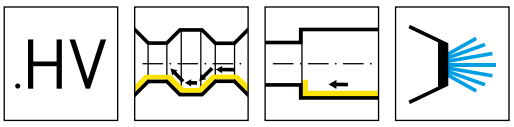
Δ 4 Wochen
4 weeks

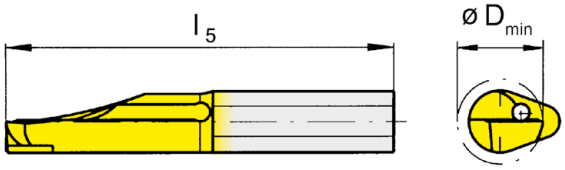
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TF45	TH35
R105.1833.2.H.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125		Δ	▲	▲
R105.1833.3.H.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125		Δ	▲	▲
R105.1833.4.H.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125		Δ	▲	▲
R105.1833.5.H.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125		Δ	▲	▲
R105.1840.3.H.7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125		▲	▲	▲
R105.1840.4.H.7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125		Δ	▲	▲
R105.1840.5.H.7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125		Δ	▲	▲
L105.1833.2.H.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125		Δ	Δ	Δ
L105.1833.3.H.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125		Δ	Δ	Δ
L105.1833.4.H.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125		Δ	Δ	Δ
L105.1833.5.H.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125		Δ	Δ	Δ
L105.1840.3.H.7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125		Δ	▲	Δ
L105.1840.4.H.7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125		Δ	Δ	Δ
L105.1840.5.H.7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125		Δ	▲	Δ
											P	●	●	●
											M	●	●	●
											K	o	●	●
											N	-	●	●
											S	-	●	●
											H	-	-	-

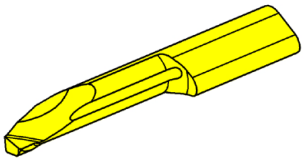
Schneidplatte
Insert

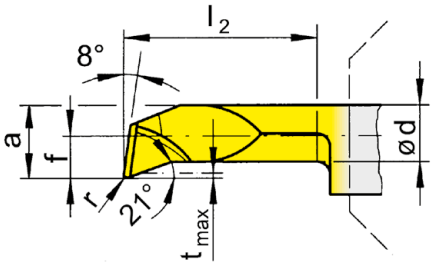
105

Ø ≥ 4 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

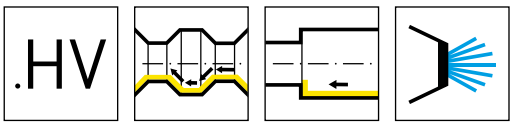
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1819.1.HV4	0,2	1,9	3,7	2,9	7	10	25	0,3	4	105125	Δ	▲
R105.1819.2.HV4	0,2	1,9	3,7	2,9	7	15	30	0,3	4	105125	Δ	▲
R105.1819.3.HV4	0,2	1,9	3,7	2,9	7	20	35	0,3	4	105125	Δ	▲
R105.1823.1.HV5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲
R105.1823.2.HV5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	Δ	▲
R105.1823.3.HV5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	▲
R105.1823.4.HV5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	▲
R105.1823.5.HV5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125	Δ	▲
L105.1819.1.HV4	0,2	1,9	3,7	2,9	7	10	25	0,3	4	105125	Δ	Δ
L105.1819.2.HV4	0,2	1,9	3,7	2,9	7	15	30	0,3	4	105125	Δ	▲
L105.1819.3.HV4	0,2	1,9	3,7	2,9	7	20	35	0,3	4	105125	Δ	▲
L105.1823.1.HV5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲
L105.1823.2.HV5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	Δ	▲
L105.1823.3.HV5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	▲
L105.1823.4.HV5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	Δ
L105.1823.5.HV5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125		Δ

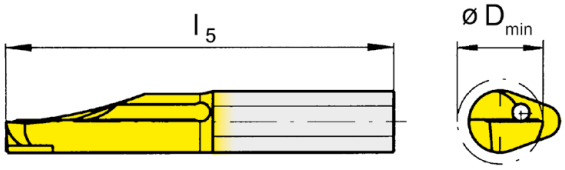
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

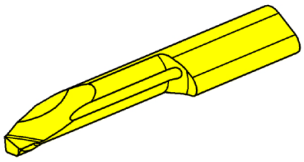
Schneidplatte
Insert

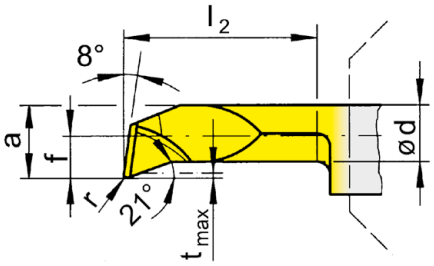
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

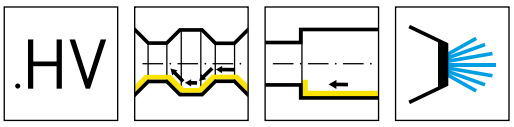
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1833.2.HV6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	Δ	▲
R105.1833.3.HV6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	Δ	▲
R105.1833.4.HV6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ	▲
R105.1833.5.HV6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	▲
R105.1840.2.HV7	0,2	4	6,4	5,2	7	15	30	0,5	7	105125	Δ	▲
R105.1840.3.HV7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125	Δ	▲
R105.1840.4.HV7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125	▲	▲
R105.1840.5.HV7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125	Δ	▲
L105.1833.2.HV6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	Δ	▲
L105.1833.3.HV6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	Δ	Δ
L105.1833.4.HV6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	▲	▲
L105.1833.5.HV6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	Δ
L105.1840.2.HV7	0,2	4	6,4	5,2	7	15	30	0,5	7	105125	Δ	▲
L105.1840.3.HV7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125		Δ
L105.1840.4.HV7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125	Δ	Δ
L105.1840.5.HV7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125	Δ	Δ

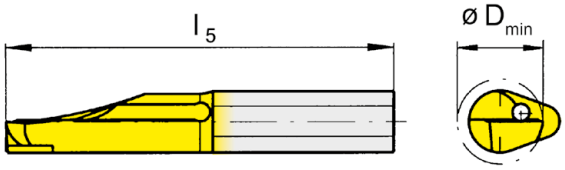
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

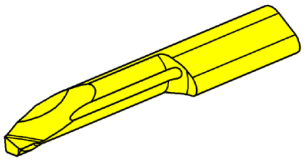
Schneidplatte
Insert

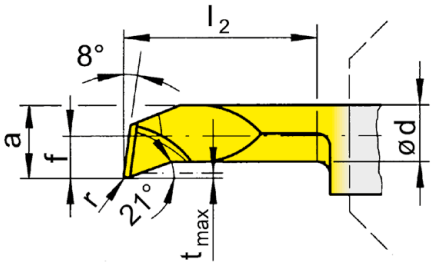
105

Ø ≥ 4 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

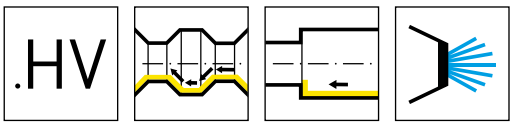
Δ 4 Wochen
4 weeks

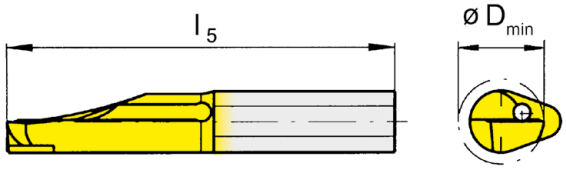
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1819.04.1.HV4	0,4	1,9	3,7	2,9	7	10	25	0,3	4	105125	Δ	▲
R105.1819.04.2.HV4	0,4	1,9	3,7	2,9	7	15	30	0,3	4	105125	▲	▲
R105.1819.04.3.HV4	0,4	1,9	3,7	2,9	7	20	35	0,3	4	105125	Δ	▲
R105.1823.04.1.HV5	0,4	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲
R105.1823.04.2.HV5	0,4	2,3	4,7	4	7	15	30	0,5	5	105125	▲	▲
R105.1823.04.3.HV5	0,4	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	▲
R105.1823.04.4.HV5	0,4	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	▲
R105.1823.04.5.HV5	0,4	2,3	4,7	4	7	30	45	0,5	5	105125	Δ	▲
L105.1819.04.1.HV4	0,4	1,9	3,7	2,9	7	10	25	0,3	4	105125	Δ	▲
L105.1819.04.2.HV4	0,4	1,9	3,7	2,9	7	15	30	0,3	4	105125	Δ	Δ
L105.1819.04.3.HV4	0,4	1,9	3,7	2,9	7	20	35	0,3	4	105125	Δ	Δ
L105.1823.04.1.HV5	0,4	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲
L105.1823.04.2.HV5	0,4	2,3	4,7	4	7	15	30	0,5	5	105125	Δ	Δ
L105.1823.04.3.HV5	0,4	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	Δ
L105.1823.04.4.HV5	0,4	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	Δ
L105.1823.04.5.HV5	0,4	2,3	4,7	4	7	30	45	0,5	5	105125	Δ	▲
										P	●	●
										M	●	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

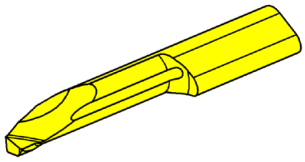
Schneidplatte
Insert

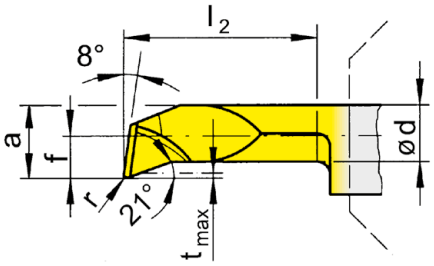
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

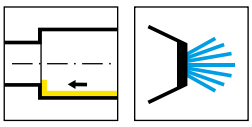
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1833.04.2.HV6	0,4	3,3	5,7	4,7	7	15	30	0,5	6	105125	Δ	▲
R105.1833.04.3.HV6	0,4	3,3	5,7	4,7	7	20	35	0,5	6	105125	▲	▲
R105.1833.04.4.HV6	0,4	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ	▲
R105.1833.04.5.HV6	0,4	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	▲
R105.1840.04.2.HV7	0,4	4	6,4	5,2	7	15	30	0,5	7	105125	Δ	▲
R105.1840.04.3.HV7	0,4	4	6,4	5,2	7	20	35	0,5	7	105125	Δ	▲
R105.1840.04.4.HV7	0,4	4	6,4	5,2	7	25	40	0,5	7	105125	Δ	▲
R105.1840.04.5.HV7	0,4	4	6,4	5,2	7	30	45	0,5	7	105125	Δ	▲
L105.1833.04.2.HV6	0,4	3,3	5,7	4,7	7	15	30	0,5	6	105125		▲
L105.1833.04.3.HV6	0,4	3,3	5,7	4,7	7	20	35	0,5	6	105125	Δ	Δ
L105.1833.04.4.HV6	0,4	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ	Δ
L105.1833.04.5.HV6	0,4	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	Δ
L105.1840.04.2.HV7	0,4	4	6,4	5,2	7	15	30	0,5	7	105125	Δ	▲
L105.1840.04.3.HV7	0,4	4	6,4	5,2	7	20	35	0,5	7	105125	Δ	▲
L105.1840.04.4.HV7	0,4	4	6,4	5,2	7	25	40	0,5	7	105125	Δ	Δ
L105.1840.04.5.HV7	0,4	4	6,4	5,2	7	30	45	0,5	7	105125		Δ

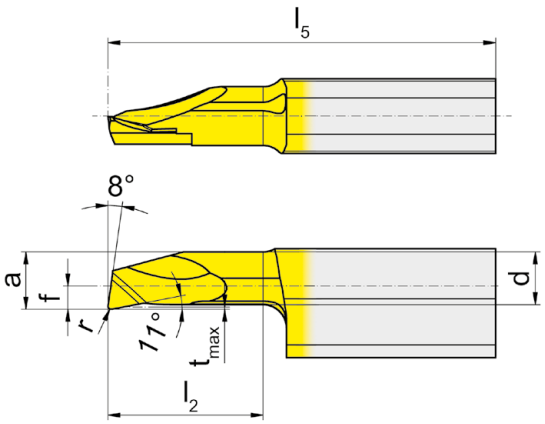
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

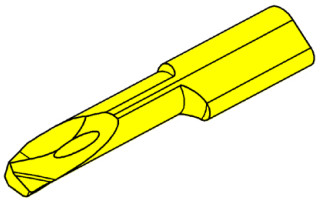
Schneidplatte
Insert

105

Ø ≥ 4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

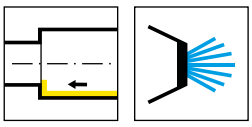
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TH35
R105.1019.005.1.4	0,05	1,5	3,7	3,4	7	10	25	0,15	4	105125		Δ	▲
R105.1019.005.2.4	0,05	1,5	3,7	3,4	7	15	30	0,15	4	105125		Δ	▲
R105.1019.005.3.4	0,05	1,5	3,7	3,4	7	20	35	0,15	4	105125		Δ	▲
R105.1019.005.4.4	0,05	1,5	3,7	3,4	7	25	40	0,15	4	105125		Δ	▲
R105.1019.1.4	0,2	1,5	3,7	3,4	7	10	25	0,15	4	105125		▲	▲
R105.1019.2.4	0,2	1,5	3,7	3,4	7	15	30	0,15	4	105125		▲	▲
R105.1019.3.4	0,2	1,5	3,7	3,4	7	20	35	0,15	4	105125		▲	▲
R105.1019.4.4	0,2	1,5	3,7	3,4	7	25	40	0,15	4	105125		▲	▲
L105.1019.005.1.4	0,05	1,5	3,7	3,4	7	10	25	0,15	4	105125		▲	▲
L105.1019.005.2.4	0,05	1,5	3,7	3,4	7	15	30	0,15	4	105125		Δ	▲
L105.1019.005.3.4	0,05	1,5	3,7	3,4	7	20	35	0,15	4	105125		Δ	▲
L105.1019.005.4.4	0,05	1,5	3,7	3,4	7	25	40	0,15	4	105125		Δ	▲
L105.1019.1.4	0,2	1,5	3,7	3,4	7	10	25	0,15	4	105125		Δ	▲
L105.1019.2.4	0,2	1,5	3,7	3,4	7	15	30	0,15	4	105125		Δ	▲
L105.1019.3.4	0,2	1,5	3,7	3,4	7	20	35	0,15	4	105125		Δ	▲
L105.1019.4.4	0,2	1,5	3,7	3,4	7	25	40	0,15	4	105125		Δ	▲
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

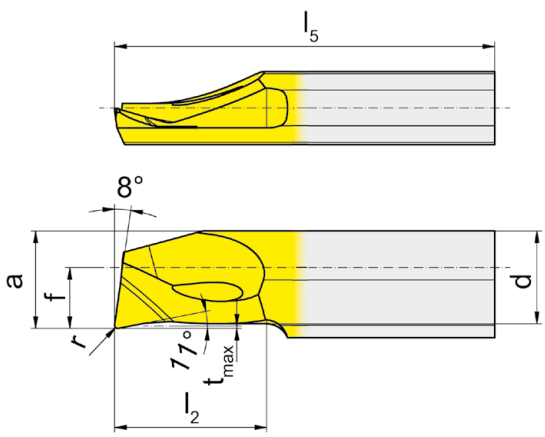
verstärkte Ausführung
reinforced version

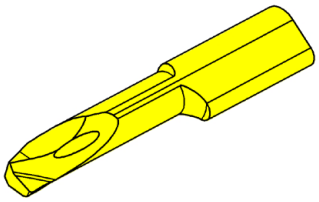
Schneidplatte
Insert

105

Ø ≥ 5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1023.005.1.5	0,05	2,8	4,7	4,4	7	10	25	0,15	5	105125	▲	▲
R105.1023.005.2.5	0,05	2,8	4,7	4,4	7	15	30	0,15	5	105125	Δ	▲
R105.1023.005.3.5	0,05	2,8	4,7	4,4	7	20	35	0,15	5	105125	Δ	▲
R105.1023.005.4.5	0,05	2,8	4,7	4,4	7	25	40	0,15	5	105125	Δ	▲
R105.1023.005.5.5	0,05	2,8	4,7	4,4	7	30	45	0,15	5	105125	Δ	▲
R105.1023.005.6.5	0,05	2,8	4,7	4,4	7	35	50	0,15	5	105125	Δ	▲
R105.1023.1.5	0,2	2,8	4,7	4,4	7	10	25	0,15	5	105125	▲	▲
R105.1023.2.5	0,2	2,8	4,7	4,4	7	15	30	0,15	5	105125	▲	▲
R105.1023.3.5	0,2	2,8	4,7	4,4	7	20	35	0,15	5	105125	▲	▲
R105.1023.4.5	0,2	2,8	4,7	4,4	7	25	40	0,15	5	105125	Δ	▲
R105.1023.5.5	0,2	2,8	4,7	4,4	7	30	45	0,15	5	105125	Δ	▲
R105.1023.6.5	0,2	2,8	4,7	4,4	7	35	50	0,15	5	105125	▲	▲
L105.1023.005.1.5	0,05	2,8	4,7	4,4	7	10	25	0,15	5	105125	Δ	▲
L105.1023.005.2.5	0,05	2,8	4,7	4,4	7	15	30	0,15	5	105125	Δ	Δ
L105.1023.005.3.5	0,05	2,8	4,7	4,4	7	20	35	0,15	5	105125	Δ	▲
L105.1023.005.4.5	0,05	2,8	4,7	4,4	7	25	40	0,15	5	105125	Δ	▲
L105.1023.005.5.5	0,05	2,8	4,7	4,4	7	30	45	0,15	5	105125	Δ	▲
L105.1023.005.6.5	0,05	2,8	4,7	4,4	7	35	50	0,15	5	105125	Δ	▲
L105.1023.1.5	0,2	2,8	4,7	4,4	7	10	25	0,15	5	105125	Δ	▲
L105.1023.2.5	0,2	2,8	4,7	4,4	7	15	30	0,15	5	105125		▲
L105.1023.3.5	0,2	2,8	4,7	4,4	7	20	35	0,15	5	105125	Δ	▲
L105.1023.4.5	0,2	2,8	4,7	4,4	7	25	40	0,15	5	105125	Δ	▲
L105.1023.5.5	0,2	2,8	4,7	4,4	7	30	45	0,15	5	105125	Δ	▲
L105.1023.6.5	0,2	2,8	4,7	4,4	7	35	50	0,15	5	105125	Δ	▲

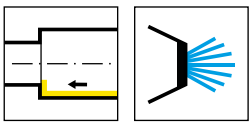
verstärkte Ausführung
reinforced version

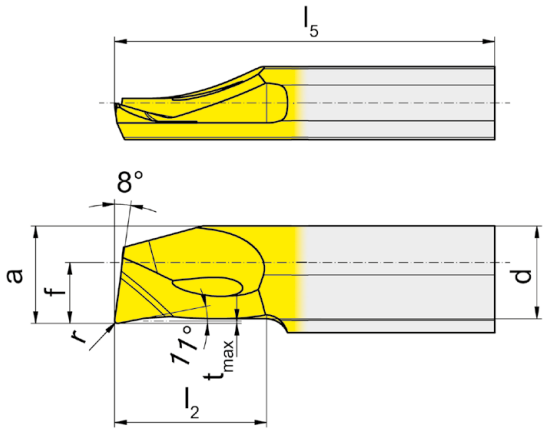
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

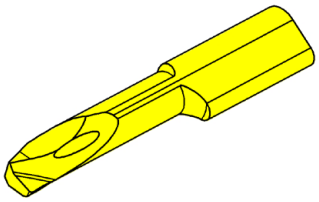
Schneidplatte
Insert

105

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35
R105.1033.005.1.6	0,05	3,3	5,7	5,4	7	10	25	0,15	6	105125	Δ	▲
R105.1033.005.2.6	0,05	3,3	5,7	5,4	7	15	30	0,15	6	105125	Δ	▲
R105.1033.005.3.6	0,05	3,3	5,7	5,4	7	20	35	0,15	6	105125	Δ	▲
R105.1033.005.4.6	0,05	3,3	5,7	5,4	7	25	40	0,15	6	105125	Δ	▲
R105.1033.005.5.6	0,05	3,3	5,7	5,4	7	30	45	0,15	6	105125	Δ	▲
R105.1033.005.6.6	0,05	3,3	5,7	5,4	7	35	50	0,15	6	105125	Δ	▲
R105.1033.1.6	0,2	3,3	5,7	5,4	7	10	25	0,15	6	105125	▲	▲
R105.1033.2.6	0,2	3,3	5,7	5,4	7	15	30	0,15	6	105125	▲	▲
R105.1033.3.6	0,2	3,3	5,7	5,4	7	20	35	0,15	6	105125	▲	▲
R105.1033.4.6	0,2	3,3	5,7	5,4	7	25	40	0,15	6	105125	Δ	▲
R105.1033.5.6	0,2	3,3	5,7	5,4	7	30	45	0,15	6	105125	▲	▲
R105.1033.6.6	0,2	3,3	5,7	5,4	7	35	50	0,15	6	105125	▲	▲
L105.1033.005.1.6	0,05	3,3	5,7	5,4	7	10	25	0,15	6	105125	Δ	▲
L105.1033.005.2.6	0,05	3,3	5,7	5,4	7	15	30	0,15	6	105125	Δ	▲
L105.1033.005.3.6	0,05	3,3	5,7	5,4	7	20	35	0,15	6	105125	Δ	▲
L105.1033.005.4.6	0,05	3,3	5,7	5,4	7	25	40	0,15	6	105125	Δ	Δ
L105.1033.005.5.6	0,05	3,3	5,7	5,4	7	30	45	0,15	6	105125	Δ	▲
L105.1033.005.6.6	0,05	3,3	5,7	5,4	7	35	50	0,15	6	105125	Δ	▲
L105.1033.1.6	0,2	3,3	5,7	5,4	7	10	25	0,15	6	105125		▲
L105.1033.2.6	0,2	3,3	5,7	5,4	7	15	30	0,15	6	105125	Δ	▲
L105.1033.3.6	0,2	3,3	5,7	5,4	7	20	35	0,15	6	105125	Δ	▲
L105.1033.4.6	0,2	3,3	5,7	5,4	7	25	40	0,15	6	105125	Δ	▲
L105.1033.5.6	0,2	3,3	5,7	5,4	7	30	45	0,15	6	105125	Δ	▲
L105.1033.6.6	0,2	3,3	5,7	5,4	7	35	50	0,15	6	105125	Δ	▲

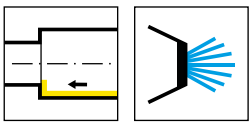
verstärkte Ausführung
reinforced version

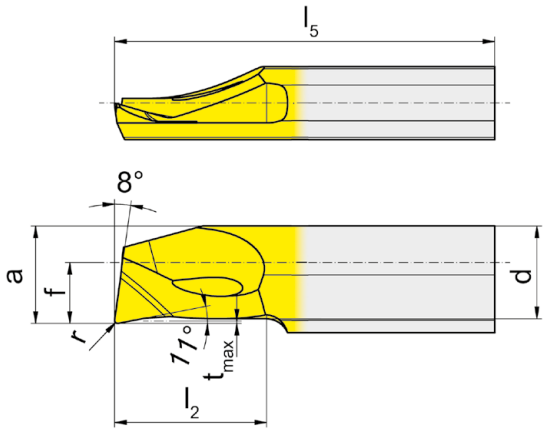
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

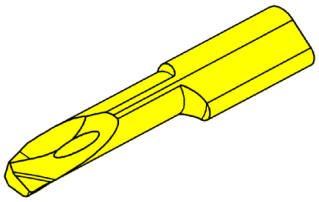
Schneidplatte
Insert

105

Ø ≥ 6,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

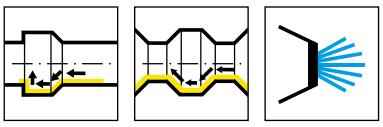
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TH35
R105.1040.1.7	0,2	4	6,4	6,1	7	10	25	0,15	6,8	105125		▲	▲
R105.1040.2.7	0,2	4	6,4	6,1	7	15	30	0,15	6,8	105125		▲	▲
R105.1040.3.7	0,2	4	6,4	6,1	7	20	35	0,15	6,8	105125		▲	▲
R105.1040.4.7	0,2	4	6,4	6,1	7	25	40	0,15	6,8	105125		▲	▲
R105.1040.5.7	0,2	4	6,4	6,1	7	30	45	0,15	6,8	105125		Δ	▲
R105.1040.6.7	0,2	4	6,4	6,1	7	35	50	0,15	6,8	105125		▲	▲
L105.1040.1.7	0,2	4	6,4	6,1	7	10	25	0,15	6,8	105125		Δ	▲
L105.1040.2.7	0,2	4	6,4	6,1	7	15	30	0,15	6,8	105125		Δ	▲
L105.1040.3.7	0,2	4	6,4	6,1	7	20	35	0,15	6,8	105125		Δ	▲
L105.1040.4.7	0,2	4	6,4	6,1	7	25	40	0,15	6,8	105125		Δ	▲
L105.1040.5.7	0,2	4	6,4	6,1	7	30	45	0,15	6,8	105125		Δ	▲
L105.1040.6.7	0,2	4	6,4	6,1	7	35	50	0,15	6,8	105125		Δ	▲
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

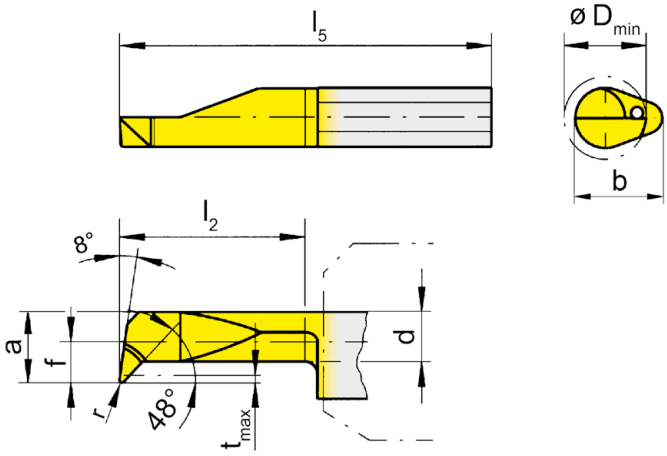
verstärkte Ausführung
reinforced version

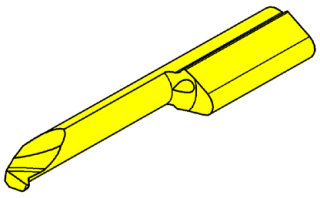
Schneidplatte
Insert

105

Ø ≥ 2 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

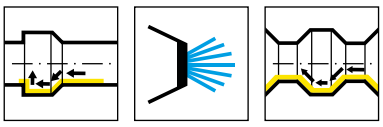
Δ 4 Wochen
4 weeks

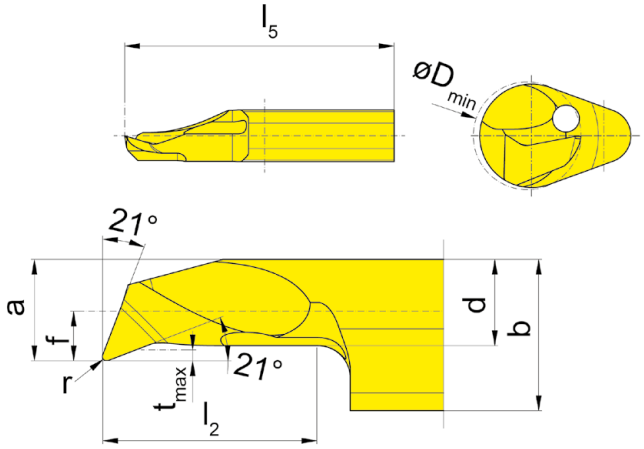
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	AN25	EG35	ES15	TH35	TI25	TN35
R105.4715.005.1.2	0,05	1,5	1,9	1,45	5,9	9	25	0,3	2	105123		▲	▲	▲			
R105.4715.005.2.2	0,05	1,5	1,9	1,45	5,9	12	30	0,3	2	105123		▲	▲	Δ			
R105.4713.005.1.3	0,05	1,3	2,6	2	5,9	10	25	0,4	3	105123	▲	▲	▲	▲			
R105.4713.005.2.3	0,05	1,3	2,6	2	5,9	15	30	0,4	3	105123		▲	▲	▲			
R105.4719.1.4	0,15	1,9	3,7	2,9	6,4	10	25	0,6	4	105124			▲		▲		
R105.4719.3.4	0,15	1,9	3,7	2,9	6,4	20	35	0,6	4	105124	Δ		▲		▲	▲	▲
R105.4723.2.5	0,15	2,3	4,7	3,7	7	15	30	0,8	5	105125			▲		▲		Δ
R105.4723.4.5	0,15	2,3	4,7	3,7	7	25	40	0,8	5	105125			▲		▲	▲	▲
R105.4733.3.6	0,15	3,3	5,7	3,7	7	20	35	1,8	6	105125			▲		▲		
R105.4733.5.6	0,15	3,3	5,7	3,7	7	30	45	1,8	6	105125	Δ		▲		▲	Δ	▲
L105.4719.1.4	0,15	1,9	3,7	2,9	6,4	10	25	0,6	4	105124			▲		▲		
L105.4719.3.4	0,15	1,9	3,7	2,9	6,4	20	35	0,6	4	105124			▲		▲	▲	▲
L105.4723.2.5	0,15	2,3	4,7	3,7	7	15	30	0,8	5	105125			Δ		▲		
L105.4723.4.5	0,15	2,3	4,7	3,7	7	25	40	0,8	5	105125			▲		▲	▲	▲
L105.4733.3.6	0,15	3,3	5,7	3,7	7	20	35	1,8	6	105125			Δ		▲		
L105.4733.5.6	0,15	3,3	5,7	3,7	7	30	45	1,8	6	105125			▲		▲	Δ	▲
											MG12	AN25	EG35	ES15	TH35	TI25	TN35
P											o	●	●	●	●	●	●
M											-	o	●	●	●	●	●
K											-	-	o	o	●	●	●
N											-	-	-	-	●	●	●
S											-	-	-	-	●	●	●
H											-	-	-	-	-	-	-

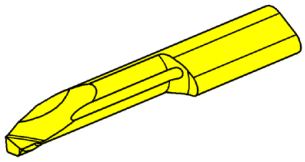
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

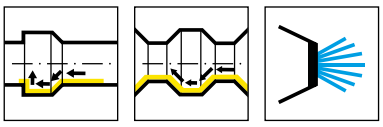
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35
R105.2113.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲
R105.2113.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲
R105.2113.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	▲
R105.2119.1.4	0,15	1,9	3,7	3	6,4	10	25	0,3	4	105124	▲
R105.2119.2.4	0,15	1,9	3,7	3	6,4	15	30	0,3	4	105124	▲
R105.2119.3.4	0,15	1,9	3,7	3	6,4	20	35	0,3	4	105124	▲
R105.2119.4.4	0,15	1,9	3,7	3	6,4	25	40	0,3	4	105124	Δ
R105.2123.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	Δ
R105.2123.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲
R105.2123.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	▲
R105.2123.4.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	Δ
R105.2123.5.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125	Δ
R105.2123.6.5	0,2	2,3	4,7	4	7	35	50	0,5	5	105125	Δ
L105.2113.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲
L105.2113.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲
L105.2113.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	▲
L105.2119.1.4	0,15	1,9	3,7	3	6,4	10	25	0,3	4	105124	▲
L105.2119.2.4	0,15	1,9	3,7	3	6,4	15	30	0,3	4	105124	Δ
L105.2119.3.4	0,15	1,9	3,7	3	6,4	20	35	0,3	4	105124	▲
L105.2119.4.4	0,15	1,9	3,7	3	6,4	25	40	0,3	4	105124	Δ
L105.2123.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	Δ
L105.2123.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲
L105.2123.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	Δ
L105.2123.4.5	0,2	2,3	4,7	4	7	25	40	0,5	5	105125	Δ
L105.2123.5.5	0,2	2,3	4,7	4	7	30	45	0,5	5	105125	Δ
L105.2123.6.5	0,2	2,3	4,7	4	7	35	50	0,5	5	105125	Δ

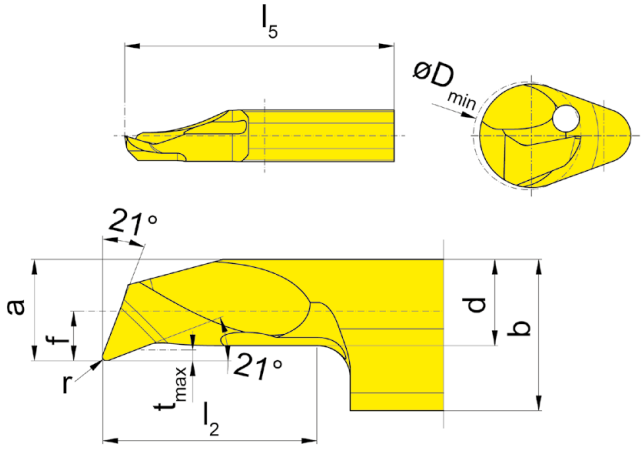
P	●
M	●
K	o
N	-
S	-
H	-

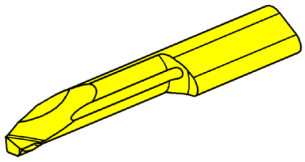
Schneidplatte
Insert

105

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

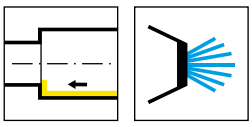
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35
R105.2133.1.6	0,2	3,3	5,7	4,7	7	10	25	0,5	6	105125	▲
R105.2133.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	▲
R105.2133.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	▲
R105.2133.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ
R105.2133.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ
R105.2133.6.6	0,2	3,3	5,7	4,7	7	35	50	0,5	6	105125	Δ
R105.2140.1.7	0,2	4	6,4	5,2	7	10	25	0,5	7	105125	▲
R105.2140.2.7	0,2	4	6,4	5,2	7	15	30	0,5	7	105125	▲
R105.2140.3.7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125	▲
R105.2140.4.7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125	Δ
R105.2140.5.7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125	Δ
R105.2140.6.7	0,2	4	6,4	5,2	7	35	50	0,5	7	105125	Δ
L105.2133.1.6	0,2	3,3	5,7	4,7	7	10	25	0,5	6	105125	▲
L105.2133.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	▲
L105.2133.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	▲
L105.2133.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ
L105.2133.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ
L105.2133.6.6	0,2	3,3	5,7	4,7	7	35	50	0,5	6	105125	Δ
L105.2140.1.7	0,2	4	6,4	5,2	7	10	25	0,5	7	105125	▲
L105.2140.2.7	0,2	4	6,4	5,2	7	15	30	0,5	7	105125	▲
L105.2140.3.7	0,2	4	6,4	5,2	7	20	35	0,5	7	105125	Δ
L105.2140.4.7	0,2	4	6,4	5,2	7	25	40	0,5	7	105125	Δ
L105.2140.5.7	0,2	4	6,4	5,2	7	30	45	0,5	7	105125	Δ
L105.2140.6.7	0,2	4	6,4	5,2	7	35	50	0,5	7	105125	Δ

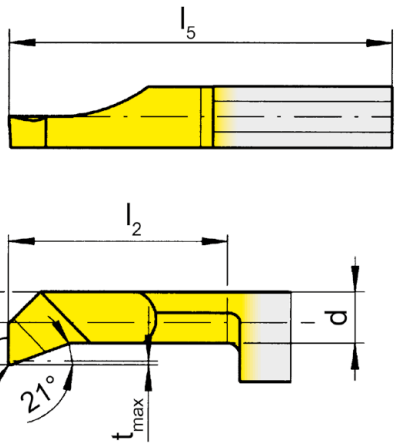
P	●
M	●
K	o
N	-
S	-
H	-

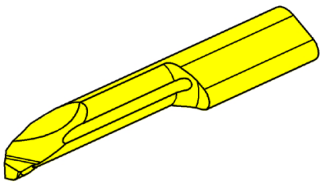
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

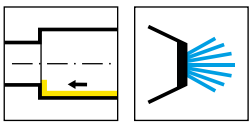
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TI25	TN35
R105.9013.01.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	Δ	▲		
R105.9013.01.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	Δ	▲		
R105.9013.01.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	▲	Δ		
R105.9013.1.3	0,2	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲			▲
R105.9013.2.3	0,2	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲			▲
R105.9019.01.1.4	0,1	1,9	3,7	2,9	6,4	10	25	0,3	4	105124	Δ	▲		
R105.9019.01.2.4	0,1	1,9	3,7	2,9	6,4	15	30	0,3	4	105124	Δ	▲		
R105.9019.01.3.4	0,1	1,9	3,7	2,9	6,4	20	35	0,3	4	105124	Δ	▲		
R105.9019.1.4	0,2	1,9	3,7	2,9	6,4	10	25	0,3	4	105124	▲			▲
R105.9019.2.4	0,2	1,9	3,7	2,9	6,4	15	30	0,3	4	105124	▲		Δ	▲
L105.9013.01.1.3	0,1	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	Δ	▲		
L105.9013.01.2.3	0,1	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	Δ	Δ		
L105.9013.01.3.3	0,1	1,3	2,6	2,3	5,9	20	35	0,15	3	105123	Δ	Δ		
L105.9013.1.3	0,2	1,3	2,6	2,3	5,9	10	25	0,15	3	105123	▲			▲
L105.9013.2.3	0,2	1,3	2,6	2,3	5,9	15	30	0,15	3	105123	▲			▲
L105.9019.01.1.4	0,1	1,9	3,7	2,9	6,4	10	25	0,3	4	105124	Δ	Δ		
L105.9019.01.2.4	0,1	1,9	3,7	2,9	6,4	15	30	0,3	4	105124	Δ	Δ		
L105.9019.01.3.4	0,1	1,9	3,7	2,9	6,4	20	35	0,3	4	105124	Δ	Δ		
L105.9019.1.4	0,2	1,9	3,7	2,9	6,4	10	25	0,3	4	105124	▲			▲
L105.9019.2.4	0,2	1,9	3,7	2,9	6,4	15	30	0,3	4	105124	▲			▲

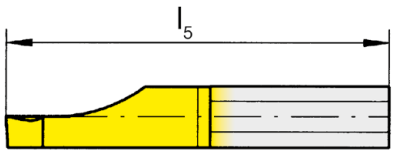
P	●	●	●	●
M	●	●	●	●
K	o	●	●	●
N	-	●	●	●
S	-	●	●	●
H	-	-	-	-

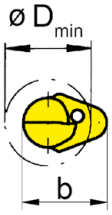
Schneidplatte
Insert

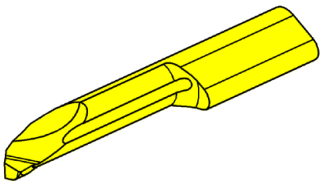
105

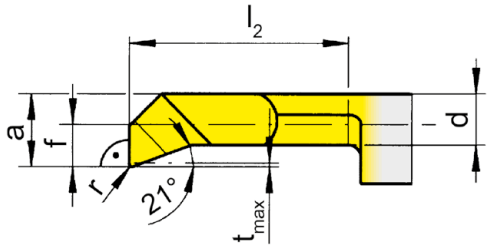
Ø ≥ 5 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

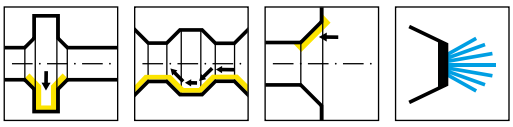
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.9023.01.1.5	0,1	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	▲	
R105.9023.01.2.5	0,1	2,3	4,7	4	7	15	30	0,5	5	105125	▲	▲	
R105.9023.01.3.5	0,1	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	▲	
R105.9023.01.4.5	0,1	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	▲	
R105.9023.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	▲	▲	▲
R105.9023.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲	▲	▲
R105.9023.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125	▲		▲
R105.9033.1.6	0,2	3,3	5,7	4,7	7	10	25	0,5	6	105125	Δ	▲	
R105.9033.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	Δ	▲	
R105.9033.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	Δ	▲	
R105.9033.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ	▲	
R105.9033.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	▲	
L105.9023.01.1.5	0,1	2,3	4,7	4	7	10	25	0,5	5	105125	Δ	Δ	
L105.9023.01.2.5	0,1	2,3	4,7	4	7	15	30	0,5	5	105125	Δ	▲	
L105.9023.01.3.5	0,1	2,3	4,7	4	7	20	35	0,5	5	105125	Δ	▲	
L105.9023.01.4.5	0,1	2,3	4,7	4	7	25	40	0,5	5	105125	Δ	Δ	
L105.9023.1.5	0,2	2,3	4,7	4	7	10	25	0,5	5	105125	▲		▲
L105.9023.2.5	0,2	2,3	4,7	4	7	15	30	0,5	5	105125	▲		▲
L105.9023.3.5	0,2	2,3	4,7	4	7	20	35	0,5	5	105125			▲
L105.9033.1.6	0,2	3,3	5,7	4,7	7	10	25	0,5	6	105125	Δ		
L105.9033.2.6	0,2	3,3	5,7	4,7	7	15	30	0,5	6	105125	Δ	Δ	
L105.9033.3.6	0,2	3,3	5,7	4,7	7	20	35	0,5	6	105125	Δ	▲	
L105.9033.4.6	0,2	3,3	5,7	4,7	7	25	40	0,5	6	105125	Δ	Δ	
L105.9033.5.6	0,2	3,3	5,7	4,7	7	30	45	0,5	6	105125	Δ	▲	

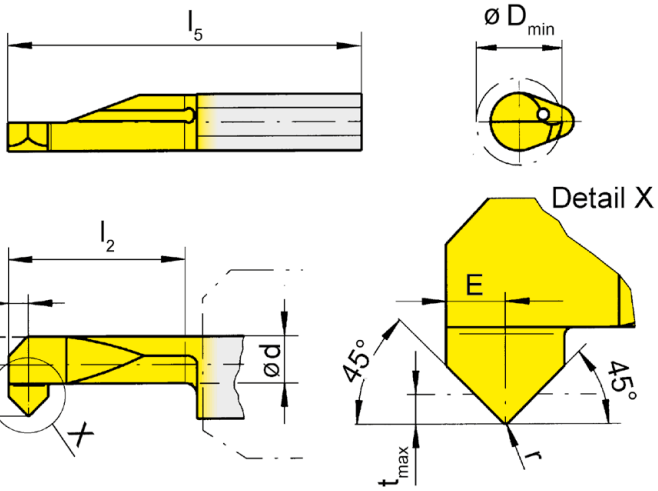
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

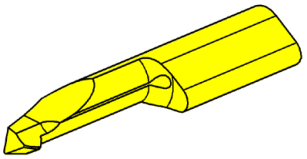
Schneidplatte
Insert

105

Ø ≥ 5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

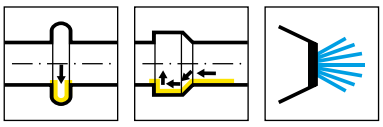
Δ 4 Wochen
4 weeks

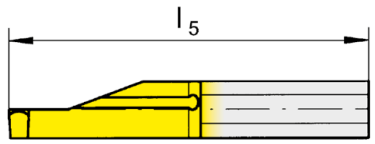
Bestellnummer Part number	r	f	E	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TF45	TI25	TN35
R105.4545.2.5	0,2	2,3	1	4,7	3,5	7	15	30	0,7	5	105125	▲			▲
R105.4545.3.7	0,2	4	1	6,4	4,7	7	20	35	0,7	7	105125	▲			▲
L105.4545.2.5	0,2	2,3	1	4,7	3,5	7	15	30	0,7	5	105125	▲			▲
L105.4545.3.7	0,2	4	1	6,4	4,7	7	20	35	0,7	7	105125	▲		Δ	▲
												P	●	●	●	●
												M	●	●	●	●
												K	o	●	●	●
												N	-	●	●	●
												S	-	●	●	●
												H	-	-	-	-

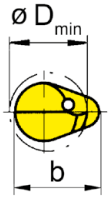
Schneidplatte
Insert

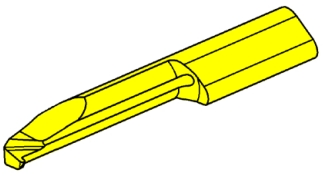
105

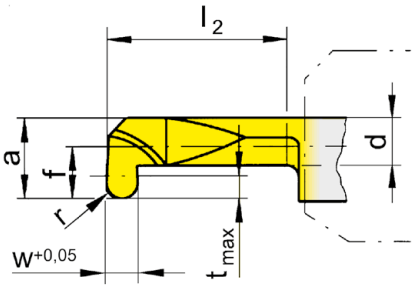
Ø ≥ 3 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

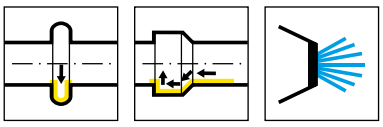
Bestellnummer Part number	w	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	AN25	EG35	ES15	TH35	TN35
R105.0025.2.3	0,5	0,25	1,4	2,7	1,9	5,9	15	30	0,6	3	105123	Δ	Δ	Δ		
R105.0005.1.4	1	0,5	1,9	3,7	2,7	6,4	10	25	0,8	4	105124		▲		▲	
R105.0005.2.4	1	0,5	1,9	3,7	2,7	6,4	15	30	0,8	4	105124		▲			▲
R105.0025.3.5	0,5	0,25	2,3	4,7	3,9	7	20	35	0,6	5	105125	Δ	Δ	Δ		
R105.0005.3.5	1	0,5	2,3	4,7	3,5	7	20	35	1	5	105125		▲			▲
R105.0007.1.5	1,5	0,75	2,3	4,7	3,5	7	10	25	1	5	105125		Δ		▲	
R105.0007.3.5	1,5	0,75	2,3	4,7	3,5	7	20	35	1	5	105125		▲			▲
R105.0010.1.5	2	1	2,3	4,7	3,5	7	10	25	1	5	105125		▲		▲	
R105.0010.3.5	2	1	2,3	4,7	3,5	7	20	35	1	5	105125		▲			▲
L105.0005.1.4	1	0,5	1,9	3,7	2,7	6,4	10	25	0,8	4	105124		Δ		▲	
L105.0005.2.4	1	0,5	1,9	3,7	2,7	6,4	15	30	0,8	4	105124		▲			▲
L105.0005.3.5	1	0,5	2,3	4,7	3,5	7	20	35	1	5	105125		▲			▲
L105.0007.1.5	1,5	0,75	2,3	4,7	3,5	7	10	25	1	5	105125		Δ		Δ	
L105.0007.3.5	1,5	0,75	2,3	4,7	3,5	7	20	35	1	5	105125		Δ			▲
L105.0010.1.5	2	1	2,3	4,7	3,5	7	10	25	1	5	105125		Δ		Δ	
L105.0010.3.5	2	1	2,3	4,7	3,5	7	20	35	1	5	105125		Δ			▲

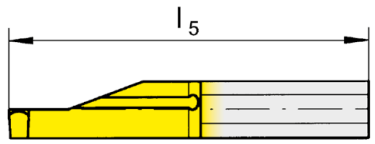
P	●	●	●	●	●
M	o	●	●	●	●
K	-	o	o	●	●
N	-	-	-	●	●
S	-	-	-	●	●
H	-	-	-	-	-

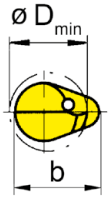
Schneidplatte
Insert

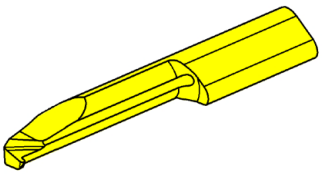
105

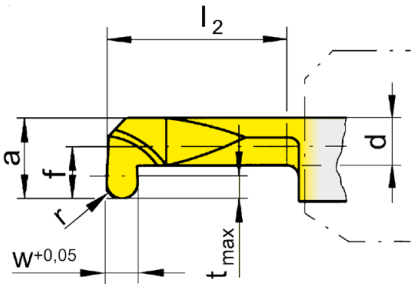
Ø ≥ 6 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

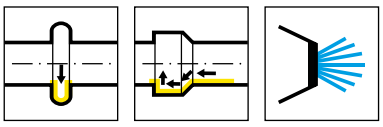
Bestellnummer Part number	w	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.0005.2.6	1	0,5	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	
R105.0007.2.6	1,5	0,75	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	
R105.0010.2.6	2	1	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	
R105.0005.4.6	1	0,5	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲		▲
R105.0007.4.6	1,5	0,75	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲		▲
R105.0010.4.6	2	1	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲		▲
L105.0005.2.6	1	0,5	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	▲	
L105.0007.2.6	1,5	0,75	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	Δ	
L105.0010.2.6	2	1	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	Δ	
L105.0005.4.6	1	0,5	3,3	5,7	3,7	7	25	40	1,8	6	105125	Δ		▲
L105.0007.4.6	1,5	0,75	3,3	5,7	3,7	7	25	40	1,8	6	105125	Δ		▲
L105.0010.4.6	2	1	3,3	5,7	3,7	7	25	40	1,8	6	105125			▲

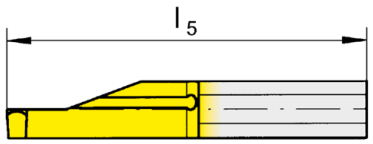
	EG35	TH35	TN35
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

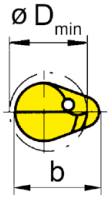
Schneidplatte
Insert

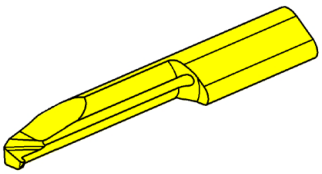
105

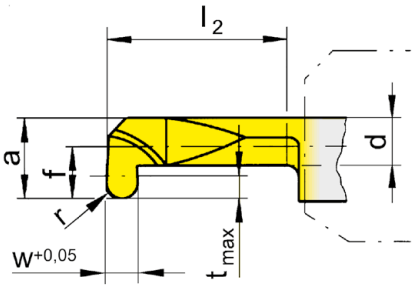
Ø ≥ 6,8 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

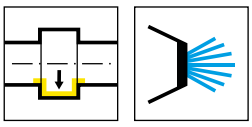
Bestellnummer Part number	w	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.0005.3.7	1	0,5	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	▲	
R105.0007.3.7	1,5	0,75	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	▲	
R105.0010.3.7	2	1	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	▲	
R105.0005.5.7	1	0,5	4	6,4	3,7	7	30	45	2,5	6,8	105125	▲		▲
R105.0007.5.7	1,5	0,75	4	6,4	3,7	7	30	45	2,5	6,8	105125	▲		▲
R105.0010.5.7	2	1	4	6,4	3,7	7	30	45	2,5	6,8	105125	▲		▲
L105.0005.3.7	1	0,5	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	▲	
L105.0007.3.7	1,5	0,75	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	▲	
L105.0010.3.7	2	1	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	▲	
L105.0005.5.7	1	0,5	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ		▲
L105.0007.5.7	1,5	0,75	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ		▲
L105.0010.5.7	2	1	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ		▲

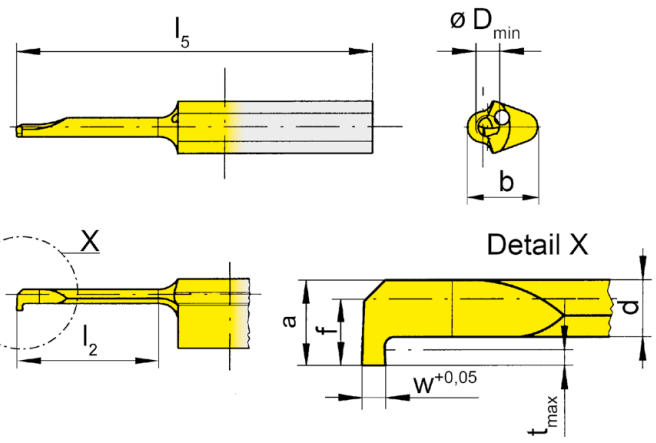
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

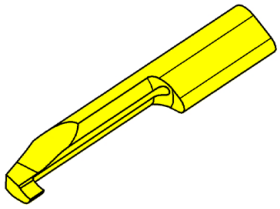
Schneidplatte
Insert

105

Ø ≥ 2 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

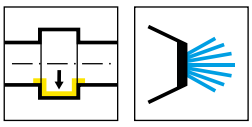
Δ 4 Wochen
4 weeks

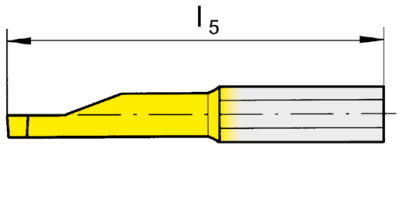
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TI25
R105.0050.0.2	0,5	1,4	1,8	1,2	5,9	6	25	0,4	2	105123		▲	▲
R105.0050.1.2	0,5	1,4	1,8	1,2	5,9	9	25	0,4	2	105123		▲	▲
R105.0050.2.2	0,5	1,4	1,8	1,2	5,9	12	30	0,4	2	105123		▲	▲
L105.0050.0.2	0,5	1,4	1,8	1,2	5,9	6	25	0,4	2	105123		▲	▲
L105.0050.1.2	0,5	1,4	1,8	1,2	5,9	9	25	0,4	2	105123		Δ	▲
L105.0050.2.2	0,5	1,4	1,8	1,2	5,9	12	30	0,4	2	105123		Δ	Δ
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

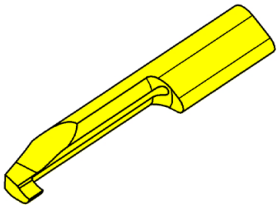
Schneidplatte
Insert

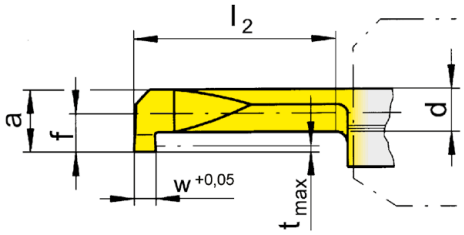
105

Ø ≥ 3 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

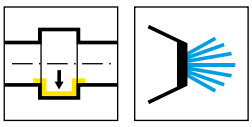
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	AN25	EG35	ES15	TI25
R105.0050.1.3	0,5	1,4	2,7	2	5,9	8	25	0,5	3	105123		▲	Δ	Δ	
R105.0050.2.3	0,5	1,4	2,7	2	5,9	12	30	0,5	3	105123	Δ	Δ	Δ	Δ	
R105.0050.3.3	0,5	1,4	2,7	2	5,9	16	35	0,5	3	105123		Δ	Δ	Δ	
R105.0070.1.3	0,7	1,4	2,7	1,9	5,9	8	25	0,6	3	105123			▲		▲
R105.0070.2.3	0,7	1,4	2,7	1,9	5,9	12	30	0,6	3	105123			▲		▲
R105.0070.3.3	0,7	1,4	2,7	1,9	5,9	16	35	0,6	3	105123			▲		▲
L105.0070.1.3	0,7	1,4	2,7	1,9	5,9	8	25	0,6	3	105123			▲		▲
L105.0070.2.3	0,7	1,4	2,7	1,9	5,9	12	30	0,6	3	105123			Δ		▲
L105.0070.3.3	0,7	1,4	2,7	1,9	5,9	16	35	0,6	3	105123			Δ		▲

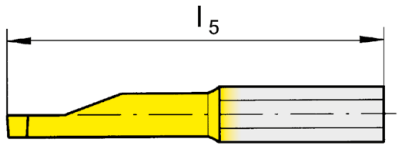
P	o	●	●	●	●
M	-	o	●	●	●
K	-	-	o	o	●
N	-	-	-	-	●
S	-	-	-	-	●
H	-	-	-	-	-

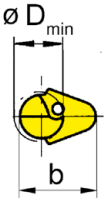
Schneidplatte
Insert

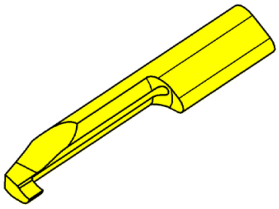
105

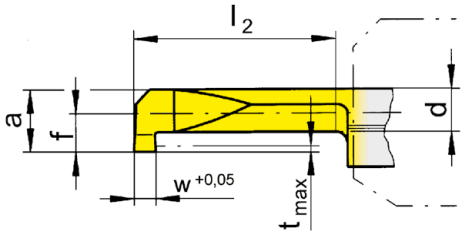
Ø ≥ 4 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

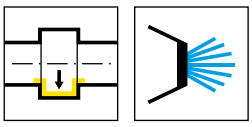
Δ 4 Wochen
4 weeks

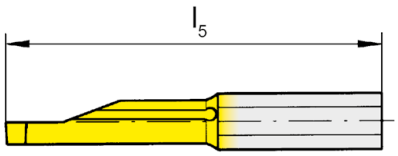
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	AN25	EG35	ES15	TN35
R105.0050.1.4	0,5	1,9	3,7	2,9	6,4	10	25	0,6	4	105124		▲	▲	▲	
R105.0050.2.4	0,5	1,9	3,7	2,9	6,4	15	30	0,6	4	105124		Δ	Δ		
R105.0050.3.4	0,5	1,9	3,7	2,9	6,4	20	35	0,6	4	105124		Δ	Δ	Δ	
R105.0100.1.4	1	1,9	3,7	2,7	6,4	10	25	0,8	4	105124	▲		▲		▲
R105.0100.2.4	1	1,9	3,7	2,7	6,4	15	30	0,8	4	105124	▲		▲		▲
R105.0100.3.4	1	1,9	3,7	2,7	6,4	20	35	0,8	4	105124	▲		Δ		▲
L105.0100.1.4	1	1,9	3,7	2,7	6,4	10	25	0,8	4	105124	▲		Δ		▲
L105.0100.2.4	1	1,9	3,7	2,7	6,4	15	30	0,8	4	105124	Δ		Δ		▲
L105.0100.3.4	1	1,9	3,7	2,7	6,4	20	35	0,8	4	105124	Δ		Δ		▲
										P	o	●	●	●	●
										M	-	o	●	●	●
										K	-	-	o	o	●
										N	-	-	-	-	●
										S	-	-	-	-	●
										H	-	-	-	-	-

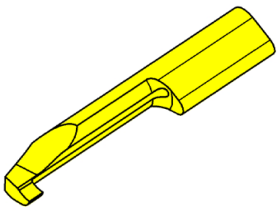
Schneidplatte
Insert

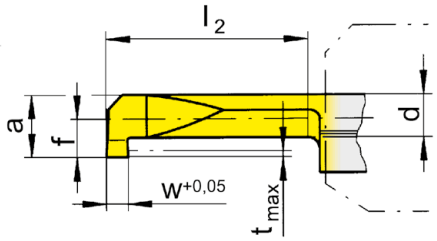
105

Ø ≥ 5 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

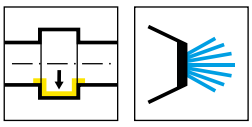
Δ 4 Wochen
4 weeks

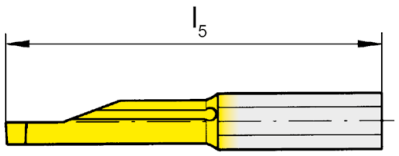
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TH35	TN35
R105.0100.1.5	1	2,3	4,7	3,5	7	10	25	1	5	105125	▲	▲	▲	▲
R105.0150.1.5	1,5	2,3	4,7	3,5	7	10	25	1	5	105125	▲	▲	▲	▲
R105.0200.1.5	2	2,3	4,7	3,5	7	10	25	1	5	105125	▲	▲	▲	▲
R105.0100.2.5	1	2,3	4,7	3,5	7	15	30	1	5	105125	▲	▲	▲	▲
R105.0150.2.5	1,5	2,3	4,7	3,5	7	15	30	1	5	105125	▲	▲	▲	▲
R105.0200.2.5	2	2,3	4,7	3,5	7	15	30	1	5	105125	▲	▲	▲	▲
R105.0100.3.5	1	2,3	4,7	3,5	7	20	35	1	5	105125	▲	▲	▲	▲
R105.0150.3.5	1,5	2,3	4,7	3,5	7	20	35	1	5	105125	▲	▲	▲	▲
R105.0200.3.5	2	2,3	4,7	3,5	7	20	35	1	5	105125	Δ	▲	▲	▲
L105.0100.1.5	1	2,3	4,7	3,5	7	10	25	1	5	105125	Δ	▲	▲	▲
L105.0150.1.5	1,5	2,3	4,7	3,5	7	10	25	1	5	105125	Δ	Δ	Δ	▲
L105.0200.1.5	2	2,3	4,7	3,5	7	10	25	1	5	105125	Δ	Δ	▲	▲
L105.0100.2.5	1	2,3	4,7	3,5	7	15	30	1	5	105125	Δ	Δ	Δ	▲
L105.0150.2.5	1,5	2,3	4,7	3,5	7	15	30	1	5	105125	Δ	Δ	Δ	▲
L105.0200.2.5	2	2,3	4,7	3,5	7	15	30	1	5	105125	Δ	Δ	▲	▲
L105.0100.3.5	1	2,3	4,7	3,5	7	20	35	1	5	105125	Δ	Δ	Δ	▲
L105.0150.3.5	1,5	2,3	4,7	3,5	7	20	35	1	5	105125	Δ	Δ	Δ	▲
L105.0200.3.5	2	2,3	4,7	3,5	7	20	35	1	5	105125		Δ	Δ	Δ
											P	o	●	●	●
											M	-	●	●	●
											K	-	o	●	●
											N	-	-	●	●
											S	-	-	●	●
											H	-	-	-	-

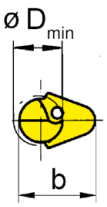
Schneidplatte
Insert

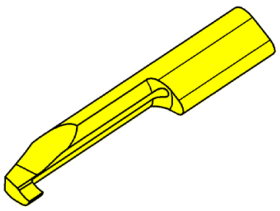
105

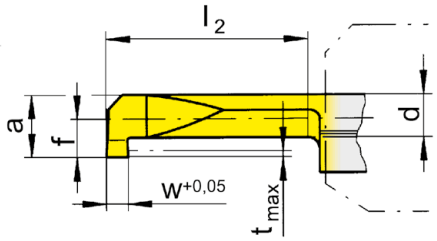
Ø ≥ 5 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

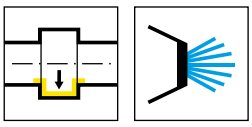
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.0100.4.5	1	2,3	4,7	3,5	7	25	40	1	5	105125	▲	Δ	▲
R105.0150.4.5	1,5	2,3	4,7	3,5	7	25	40	1	5	105125		▲	▲
R105.0200.4.5	2	2,3	4,7	3,5	7	25	40	1	5	105125	▲	▲	▲
R105.0100.5.5	1	2,3	4,7	3,5	7	30	45	1	5	105125	▲	▲	▲
R105.0150.5.5	1,5	2,3	4,7	3,5	7	30	45	1	5	105125	Δ	▲	▲
R105.0200.5.5	2	2,3	4,7	3,5	7	30	45	1	5	105125	Δ	▲	▲
L105.0100.4.5	1	2,3	4,7	3,5	7	25	40	1	5	105125	Δ	Δ	Δ
L105.0150.4.5	1,5	2,3	4,7	3,5	7	25	40	1	5	105125	Δ	Δ	Δ
L105.0200.4.5	2	2,3	4,7	3,5	7	25	40	1	5	105125	Δ	Δ	Δ
L105.0100.5.5	1	2,3	4,7	3,5	7	30	45	1	5	105125	Δ	Δ	Δ
L105.0150.5.5	1,5	2,3	4,7	3,5	7	30	45	1	5	105125	Δ	Δ	Δ
L105.0200.5.5	2	2,3	4,7	3,5	7	30	45	1	5	105125	Δ	Δ	Δ

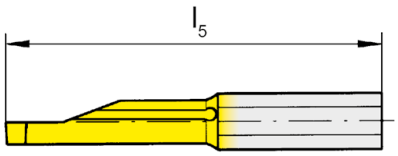
	EG35	TH35	TN35
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

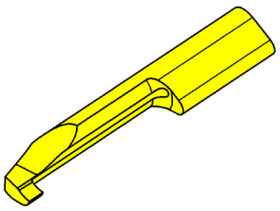
Schneidplatte
Insert

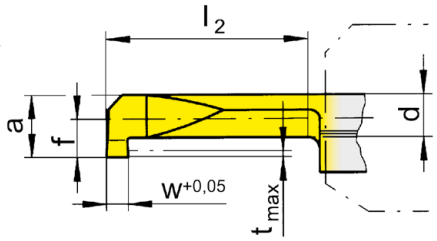
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

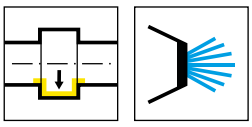
Δ 4 Wochen
4 weeks

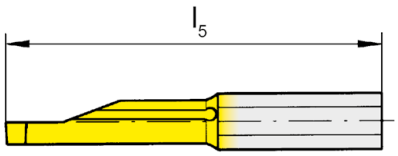
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TH35	TN35
R105.0100.1.6	1	3,3	5,7	3,7	7	10	25	1,8	6	105125	▲	▲	▲	▲
R105.0150.1.6	1,5	3,3	5,7	3,7	7	10	25	1,8	6	105125	▲	▲	▲	▲
R105.0200.1.6	2	3,3	5,7	3,7	7	10	25	1,8	6	105125	▲	▲	▲	▲
R105.0100.2.6	1	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	▲	▲
R105.0150.2.6	1,5	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	▲	▲
R105.0200.2.6	2	3,3	5,7	3,7	7	15	30	1,8	6	105125	▲	▲	▲	▲
R105.0100.3.6	1	3,3	5,7	3,7	7	20	35	1,8	6	105125	▲	▲	▲	▲
R105.0150.3.6	1,5	3,3	5,7	3,7	7	20	35	1,8	6	105125	▲	▲	▲	▲
R105.0200.3.6	2	3,3	5,7	3,7	7	20	35	1,8	6	105125	▲	▲	▲	▲
L105.0100.1.6	1	3,3	5,7	3,7	7	10	25	1,8	6	105125	▲	▲	▲	▲
L105.0150.1.6	1,5	3,3	5,7	3,7	7	10	25	1,8	6	105125	Δ	▲	▲	▲
L105.0200.1.6	2	3,3	5,7	3,7	7	10	25	1,8	6	105125	Δ		▲	▲
L105.0100.2.6	1	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	Δ	▲	▲
L105.0150.2.6	1,5	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	▲	▲	▲
L105.0200.2.6	2	3,3	5,7	3,7	7	15	30	1,8	6	105125	Δ	▲	▲	▲
L105.0100.3.6	1	3,3	5,7	3,7	7	20	35	1,8	6	105125	Δ	Δ	▲	▲
L105.0150.3.6	1,5	3,3	5,7	3,7	7	20	35	1,8	6	105125	Δ	Δ	▲	▲
L105.0200.3.6	2	3,3	5,7	3,7	7	20	35	1,8	6	105125	Δ	▲	▲	▲
											P	o	●	●	●
											M	-	●	●	●
											K	-	o	●	●
											N	-	-	●	●
											S	-	-	●	●
											H	-	-	-	-

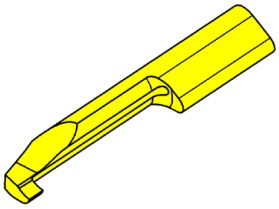
Schneidplatte
Insert

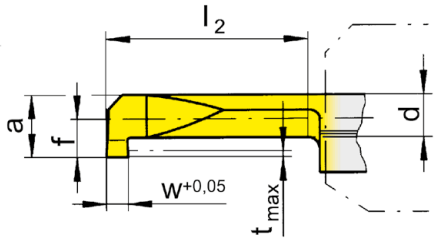
105

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

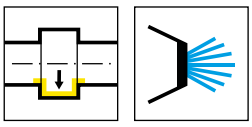
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.0100.4.6	1	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲	▲	▲
R105.0150.4.6	1,5	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲	▲	▲
R105.0200.4.6	2	3,3	5,7	3,7	7	25	40	1,8	6	105125	▲	▲	▲
R105.0100.5.6	1	3,3	5,7	3,7	7	30	45	1,8	6	105125	▲	▲	▲
R105.0150.5.6	1,5	3,3	5,7	3,7	7	30	45	1,8	6	105125	▲	▲	▲
R105.0200.5.6	2	3,3	5,7	3,7	7	30	45	1,8	6	105125	▲	▲	▲
L105.0100.4.6	1	3,3	5,7	3,7	7	25	40	1,8	6	105125	Δ	▲	Δ
L105.0150.4.6	1,5	3,3	5,7	3,7	7	25	40	1,8	6	105125	Δ	Δ	▲
L105.0200.4.6	2	3,3	5,7	3,7	7	25	40	1,8	6	105125		Δ	▲
L105.0100.5.6	1	3,3	5,7	3,7	7	30	45	1,8	6	105125	Δ	Δ	Δ
L105.0150.5.6	1,5	3,3	5,7	3,7	7	30	45	1,8	6	105125	Δ	Δ	▲
L105.0200.5.6	2	3,3	5,7	3,7	7	30	45	1,8	6	105125	Δ	Δ	▲

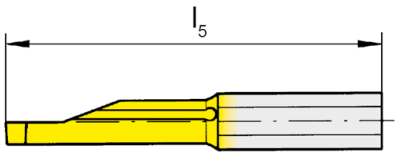
	EG35	TH35	TN35
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

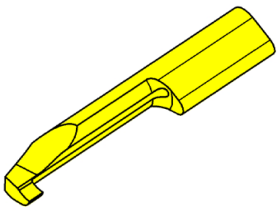
Schneidplatte
Insert

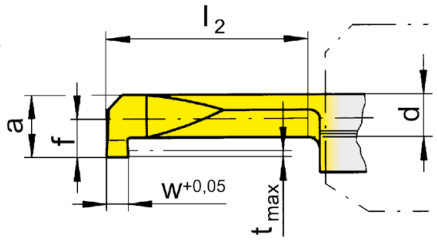
105

Ø ≥ 6,8 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

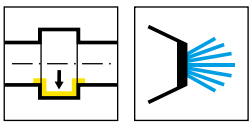
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	MG12	EG35	TH35	TN35
R105.0100.1.7	1	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	▲	▲	▲
R105.0150.1.7	1,5	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	▲	▲	▲
R105.0200.1.7	2	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	▲	▲	▲
R105.0100.2.7	1	4	6,4	3,7	7	15	30	2,5	6,8	105125	▲	▲	▲	▲
R105.0150.2.7	1,5	4	6,4	3,7	7	15	30	2,5	6,8	105125	▲	▲	▲	▲
R105.0200.2.7	2	4	6,4	3,7	7	15	30	2,5	6,8	105125	▲	▲	▲	▲
R105.0100.3.7	1	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	Δ	▲	▲
R105.0150.3.7	1,5	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	▲	▲	▲
R105.0200.3.7	2	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	▲	▲	▲
L105.0100.1.7	1	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	Δ	▲	▲
L105.0150.1.7	1,5	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	▲	▲	▲
L105.0200.1.7	2	4	6,4	3,7	7	10	25	2,5	6,8	105125	▲	▲	▲	▲
L105.0100.2.7	1	4	6,4	3,7	7	15	30	2,5	6,8	105125	Δ		▲	▲
L105.0150.2.7	1,5	4	6,4	3,7	7	15	30	2,5	6,8	105125	▲		▲	▲
L105.0200.2.7	2	4	6,4	3,7	7	15	30	2,5	6,8	105125	▲	Δ	▲	▲
L105.0100.3.7	1	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲	▲	▲	▲
L105.0150.3.7	1,5	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	▲	▲	▲
L105.0200.3.7	2	4	6,4	3,7	7	20	35	2,5	6,8	105125	Δ	Δ	▲	▲

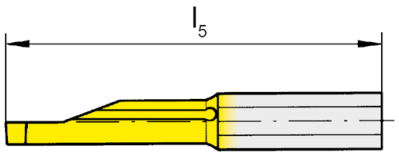
P	o	●	●	●
M	-	●	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

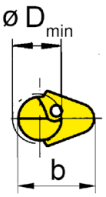
Schneidplatte
Insert

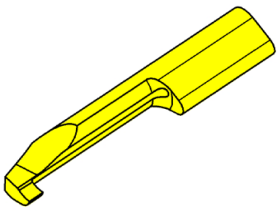
105

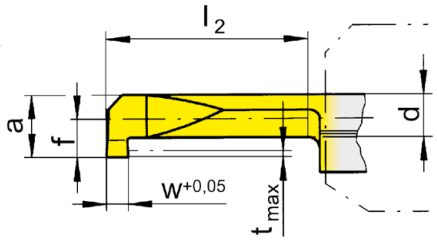
Ø ≥ 6,8 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

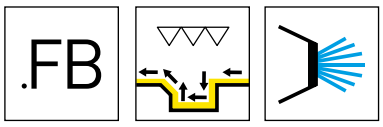
Δ 4 Wochen
4 weeks

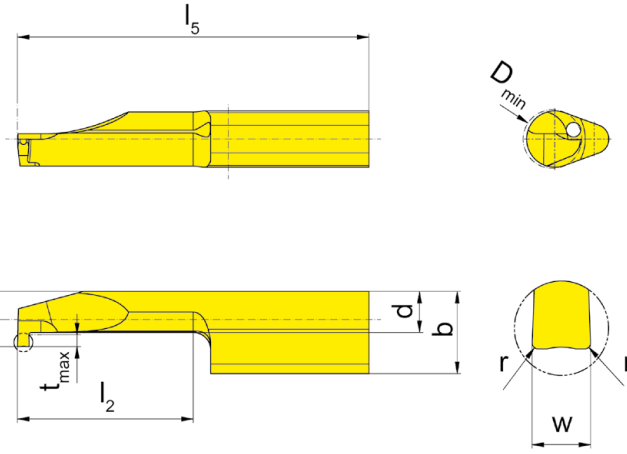
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TN35
R105.0100.4.7	1	4	6,4	3,7	7	25	40	2,5	6,8	105125	▲	▲	▲
R105.0150.4.7	1,5	4	6,4	3,7	7	25	40	2,5	6,8	105125	▲	▲	▲
R105.0200.4.7	2	4	6,4	3,7	7	25	40	2,5	6,8	105125	▲	▲	▲
R105.0100.5.7	1	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ	▲	▲
R105.0150.5.7	1,5	4	6,4	3,7	7	30	45	2,5	6,8	105125	▲	▲	▲
R105.0200.5.7	2	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ	▲	▲
L105.0100.4.7	1	4	6,4	3,7	7	25	40	2,5	6,8	105125	Δ	Δ	▲
L105.0150.4.7	1,5	4	6,4	3,7	7	25	40	2,5	6,8	105125	Δ	▲	▲
L105.0200.4.7	2	4	6,4	3,7	7	25	40	2,5	6,8	105125	Δ	▲	▲
L105.0100.5.7	1	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ	▲	▲
L105.0150.5.7	1,5	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ	▲	▲
L105.0200.5.7	2	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ	▲	▲
										P	●	●	●
										M	●	●	●
										K	o	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

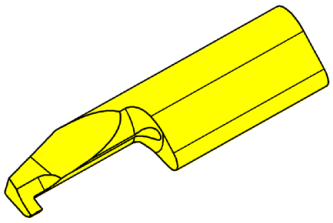
Schneidplatte
Insert

105

Ø ≥ 5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

Bestellnummer Part number	w	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35
R105.FB10.1.01	1	0,1	2,3	4,7	3,5	7	10	25	1	5	105125	▲
R105.FB10.2.01	1	0,1	2,3	4,7	3,5	7	15	30	1	5	105125	▲
R105.FB15.1.01	1,5	0,1	2,3	4,7	3,5	7	10	25	1	5	105125	▲
R105.FB15.2.01	1,5	0,1	2,3	4,7	3,5	7	15	30	1	5	105125	▲
L105.FB10.1.01	1	0,1	2,3	4,7	3,5	7	10	25	1	5	105125	▲
L105.FB10.2.01	1	0,1	2,3	4,7	3,5	7	15	30	1	5	105125	▲
L105.FB15.1.01	1,5	0,1	2,3	4,7	3,5	7	10	25	1	5	105125	▲
L105.FB15.2.01	1,5	0,1	2,3	4,7	3,5	7	15	30	1	5	105125	▲

	EG35
P	●
M	●
K	o
N	-
S	-
H	-

Berechnung der kleinstmöglichen Nutbreite w_x
Calculation of the smallest possible width of groove w_x

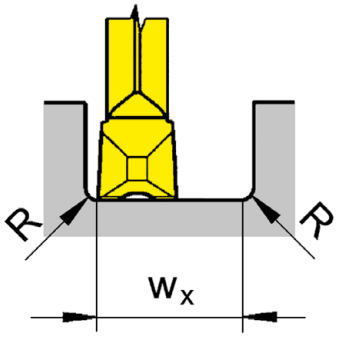
Beispiel R105.FB10.01
Example

w_x = 2 x Schneidbreite w - 2 x Eckenradius Schneidplatte R

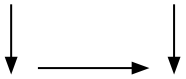
w_x = 2 x Width of insert w - 2 x Corner radius insert R

w_x = 2 x 1 mm - 2 x 0,1 mm

w_x = 1,8 mm



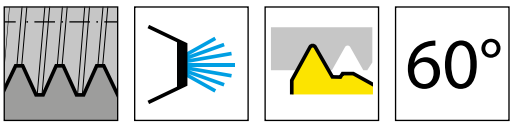
Bearbeitungsablauf
Processing flow

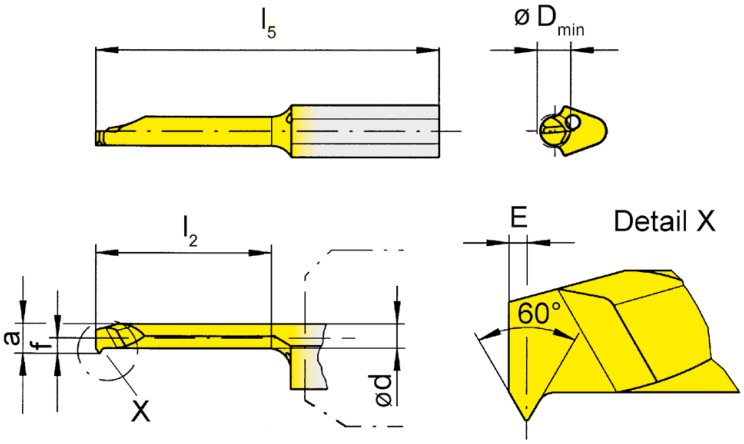


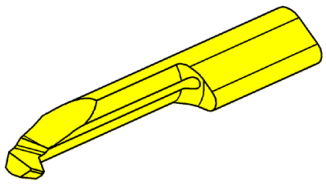
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

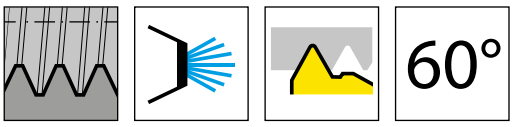
Δ 4 Wochen
4 weeks

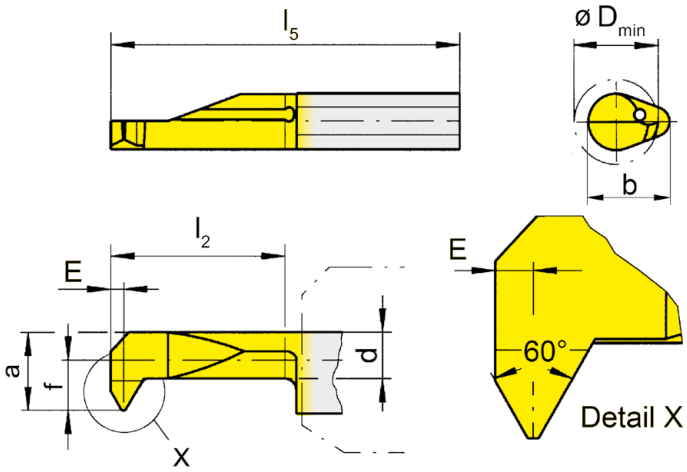
Bestellnummer Part number	P	E	f	a	d	b	l_2	l_5	D_{min}	HIS		EG35	TN35
R105.0102.2.3	0,25	0,3	1,4	2,7	2,2	5,9	15	30	3	105123		Δ	▲
L105.0102.2.3	0,25	0,3	1,4	2,7	2,2	5,9	15	30	3	105123		Δ	▲
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

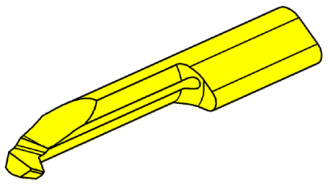
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

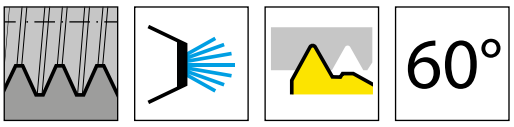
Bestellnummer Part number	P	E	f	a	d	b	l_2	l_5	D_{min}	HIS	EG35	TN35
R105.0203.1.3	0,35	0,3	1,4	2,7	2,1	5,9	10	25	3	105123	▲	▲
R105.0203.2.5	0,35	0,3	2,3	4,7	3,5	7	15	30	5	105125	▲	▲
L105.0203.1.3	0,35	0,3	1,4	2,7	2,1	5,9	10	25	3	105123	Δ	Δ
L105.0203.2.5	0,35	0,3	2,3	4,7	3,5	7	15	30	5	105125		▲

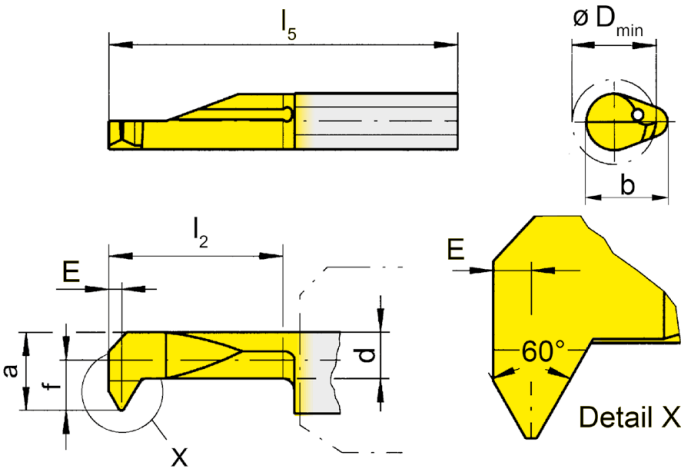
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

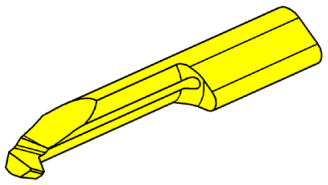
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

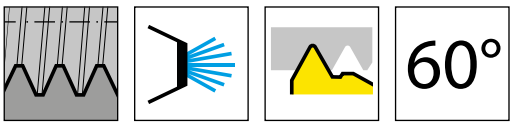
Bestellnummer Part number	P	E	f	a	d	b	l_2	l_5	D_{min}	HIS	MG12	EG35	TH35	TN35
R105.0205.2.3	0,5	0,35	1,4	2,7	2,1	5,9	15	30	3	105123		▲		▲
R105.0205.2.4	0,5	0,35	1,9	3,7	2,7	6,4	15	30	4	105124		▲	▲	▲
R105.0205.3.4	0,5	0,35	1,9	3,7	2,7	6,4	20	35	4	105124		▲		▲
R105.0205.2.5	0,5	0,35	2,3	4,7	3,5	7	15	30	5	105125	▲	▲	▲	▲
R105.0205.3.5	0,5	0,35	2,3	4,7	3,5	7	20	35	5	105125		Δ		▲
R105.0205.4.5	0,5	0,35	2,3	4,7	3,5	7	25	40	5	105125				▲
R105.0205.3.6	0,5	0,35	3,3	5,7	4,8	7	20	35	6	105125		▲		▲
L105.0205.2.3	0,5	0,35	1,4	2,7	2,1	5,9	15	30	3	105123		Δ		▲
L105.0205.2.4	0,5	0,35	1,9	3,7	2,7	6,4	15	30	4	105124		Δ	Δ	▲
L105.0205.3.4	0,5	0,35	1,9	3,7	2,7	6,4	20	35	4	105124		Δ		Δ
L105.0205.2.5	0,5	0,35	2,3	4,7	3,5	7	15	30	5	105125	Δ	Δ	Δ	▲
L105.0205.3.5	0,5	0,35	2,3	4,7	3,5	7	20	35	5	105125		Δ		Δ
L105.0205.4.5	0,5	0,35	2,3	4,7	3,5	7	25	40	5	105125		Δ		Δ
L105.0205.3.6	0,5	0,35	3,3	5,7	4,8	7	20	35	6	105125		Δ		Δ

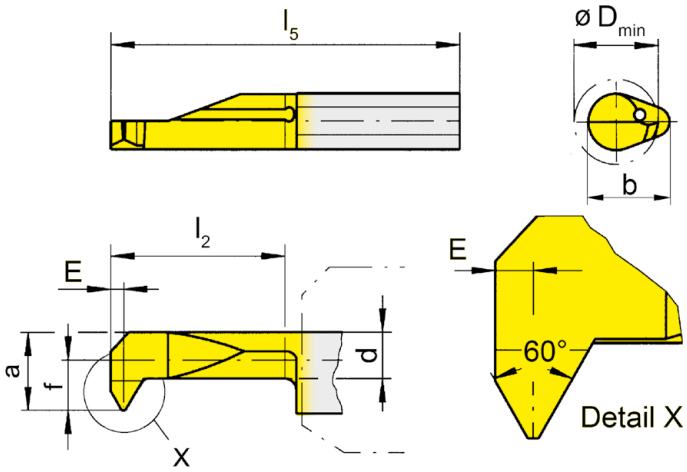
P	o	●	●	●
M	-	●	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

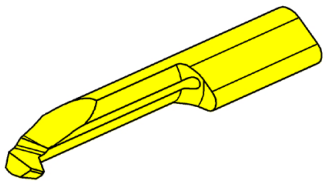
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

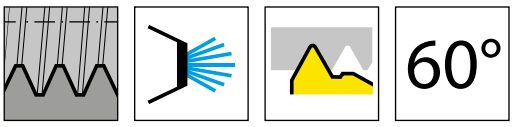
Bestellnummer Part number	P	P_{max}	E	f	a	d	b	l_2	l_5	D_{min}	HIS	EG35	TH35	TN35
R105.0407.2.3	0,5	0,75	0,45	1,4	2,7	2	5,9	15	30	3	105123	▲		▲
R105.0407.1.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	10	25	4	105124	▲		▲
R105.0407.2.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	15	30	4	105124	▲		▲
R105.0407.3.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	20	35	4	105124	▲		▲
R105.0407.2.5	0,5	0,75	0,45	2,3	4,7	3,5	7	15	30	5	105125	▲	▲	▲
R105.0407.3.5	0,5	0,75	0,45	2,3	4,7	3,5	7	20	35	5	105125	Δ		▲
R105.0407.4.5	0,5	0,75	0,45	2,3	4,7	3,5	7	25	40	5	105125	▲		▲
R105.0407.3.6	0,5	0,75	0,45	3,3	5,7	4,7	7	20	35	6	105125	▲		▲
L105.0407.2.3	0,5	0,75	0,45	1,4	2,7	2	5,9	15	30	3	105123	Δ		Δ
L105.0407.1.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	10	25	4	105124	Δ		▲
L105.0407.2.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	15	30	4	105124	Δ		▲
L105.0407.3.4	0,5	0,75	0,45	1,9	3,7	2,7	6,4	20	35	4	105124	Δ		Δ
L105.0407.2.5	0,5	0,75	0,45	2,3	4,7	3,5	7	15	30	5	105125	▲	▲	▲
L105.0407.3.5	0,5	0,75	0,45	2,3	4,7	3,5	7	20	35	5	105125	Δ		Δ
L105.0407.4.5	0,5	0,75	0,45	2,3	4,7	3,5	7	25	40	5	105125	Δ		Δ
L105.0407.3.6	0,5	0,75	0,45	3,3	5,7	4,7	7	20	35	6	105125	Δ		Δ

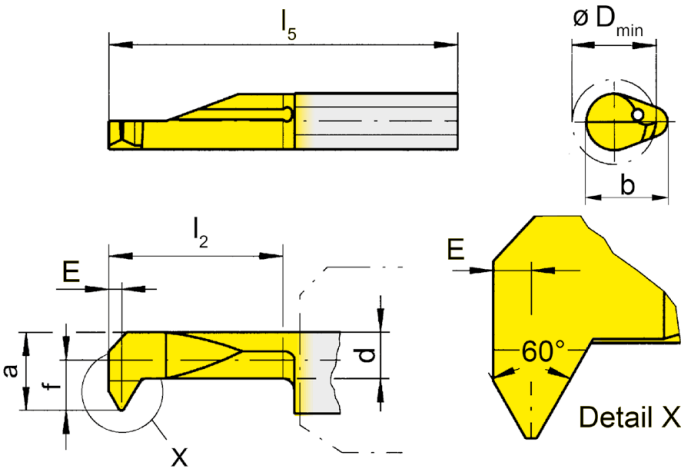
	EG35	TH35	TN35
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

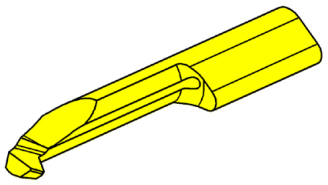
Schneidplatte
Insert

105

Ø ≥ 4,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

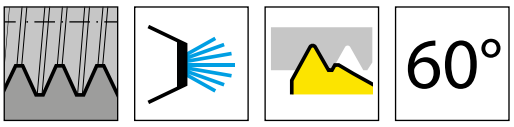
Bestellnummer Part number	P	E	f	a	d	b	l_2	l_5	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.0510.2.5	1	0,55	2,1	4,5	3,5	7	15	30	4,8	105125	▲	▲		▲	Δ	▲
R105.0510.3.5	1	0,55	2,1	4,5	3,5	7	20	35	4,8	105125		▲				▲
R105.0510.4.5	1	0,55	2,1	4,5	3,5	7	25	40	4,8	105125		▲				▲
R105.0510.2.6	1	0,55	3,3	5,7	3,7	7	15	30	6	105125		▲		▲		▲
R105.0612.2.6	1,25	0,65	3,3	5,7	3,7	7	15	30	6	105125	Δ	▲		▲		▲
R105.0612.3.6	1,25	0,65	3,3	5,7	3,7	7	20	35	6	105125		▲				▲
R105.0612.4.6	1,25	0,65	3,3	5,7	3,7	7	25	40	6	105125		▲				▲
R105.0815.2.7	1,5	0,75	4	6,4	3,7	7	15	30	7	105125		▲	Δ	▲		▲
R105.0815.3.7	1,5	0,75	4	6,4	3,7	7	20	35	7	105125		▲				▲
R105.0815.4.7	1,5	0,75	4	6,4	3,7	7	25	40	7	105125		▲				▲
L105.0510.2.5	1	0,55	2,1	4,5	3,5	7	15	30	4,8	105125	Δ	▲		▲		▲
L105.0510.3.5	1	0,55	2,1	4,5	3,5	7	20	35	4,8	105125		Δ				▲
L105.0510.4.5	1	0,55	2,1	4,5	3,5	7	25	40	4,8	105125		Δ				▲
L105.0510.2.6	1	0,55	3,3	5,7	3,7	7	15	30	6	105125		▲		▲		▲
L105.0612.2.6	1,25	0,65	3,3	5,7	3,7	7	15	30	6	105125	Δ	▲		▲		▲
L105.0612.3.6	1,25	0,65	3,3	5,7	3,7	7	20	35	6	105125		Δ				▲
L105.0612.4.6	1,25	0,65	3,3	5,7	3,7	7	25	40	6	105125		Δ				▲
L105.0815.2.7	1,5	0,75	4	6,4	3,7	7	15	30	7	105125				▲		▲
L105.0815.3.7	1,5	0,75	4	6,4	3,7	7	20	35	7	105125		Δ				▲
L105.0815.4.7	1,5	0,75	4	6,4	3,7	7	25	40	7	105125		Δ				▲

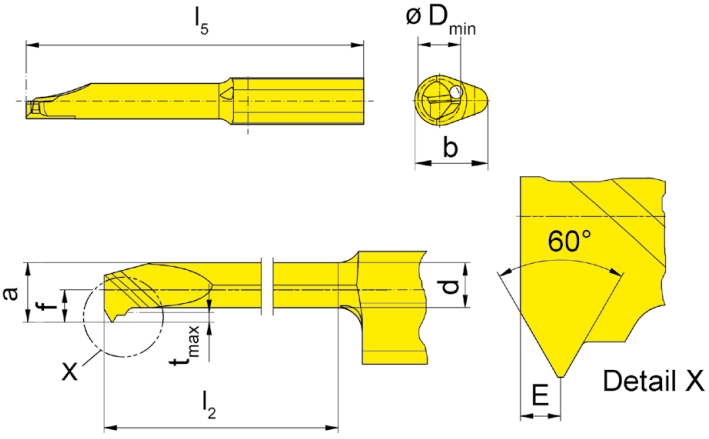
P	o	●	●	●	●	●
M	-	●	●	●	●	●
K	-	o	●	●	●	●
N	-	-	●	●	●	●
S	-	-	●	●	●	●
H	-	-	-	-	-	-

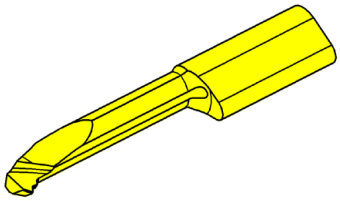
Schneidplatte
Insert

105

Ø ≥ 2,4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

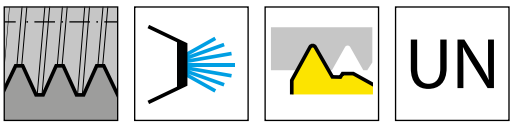
Bestellnummer Part number	P	E	f	a	d	b	l_2	l_5	D_{min}	HIS	EG35	TH35
R105.VPM3.2.3	0,5	0,3	1,4	2,2	1,65	5,9	9	25	2,4	105123	▲	▲
R105.VPM3.4.3	0,5	0,3	1,4	2,2	1,65	5,9	16	35	2,4	105123	▲	▲
R105.VPM4.2.4	0,7	0,4	1,5	2,9	2,1	6,4	15	30	3,2	105124	▲	▲
R105.VPM4.3.4	0,7	0,4	1,5	2,9	2,1	6,4	20	35	3,2	105124	▲	▲
R105.VPM5.2.5	0,8	0,5	2	3,7	2,8	7	15	30	4,1	105125	▲	▲
R105.VPM5.4.5	0,8	0,5	2	3,7	2,8	7	25	40	4,1	105125	▲	▲
R105.VPM6.3.6	1	0,5	2,4	4,5	3,4	7	20	35	4,9	105125	▲	▲
R105.VPM6.4.6	1	0,5	2,4	4,5	3,4	7	25	40	4,9	105125	▲	▲
R105.VPM6.5.6	1	0,5	2,4	4,5	3,4	7	30	45	4,9	105125	▲	▲
R105.VPM8.3.8	1,25	0,7	3,8	6,2	4,7	7	20	35	6,6	105125	▲	▲
R105.VPM8.5.8	1,25	0,7	3,8	6,2	4,7	7	30	45	6,6	105125	▲	▲
L105.VPM3.2.3	0,5	0,3	1,4	2,2	1,65	5,9	9	25	2,4	105123	Δ	▲
L105.VPM3.4.3	0,5	0,3	1,4	2,2	1,65	5,9	16	35	2,4	105123	Δ	Δ
L105.VPM4.2.4	0,7	0,4	1,5	2,9	2,1	6,4	15	30	3,2	105124	Δ	Δ
L105.VPM4.3.4	0,7	0,4	1,5	2,9	2,1	6,4	20	35	3,2	105124	Δ	Δ
L105.VPM5.2.5	0,8	0,5	2	3,7	2,8	7	15	30	4,1	105125	Δ	▲
L105.VPM5.4.5	0,8	0,5	2	3,7	2,8	7	25	40	4,1	105125	Δ	▲
L105.VPM6.3.6	1	0,5	2,4	4,5	3,4	7	20	35	4,9	105125	▲	▲
L105.VPM6.4.6	1	0,5	2,4	4,5	3,4	7	25	40	4,9	105125	Δ	Δ
L105.VPM6.5.6	1	0,5	2,4	4,5	3,4	7	30	45	4,9	105125	Δ	▲
L105.VPM8.3.8	1,25	0,7	3,8	6,2	4,7	7	20	35	6,6	105125	Δ	▲
L105.VPM8.5.8	1,25	0,7	3,8	6,2	4,7	7	30	45	6,6	105125	Δ	▲

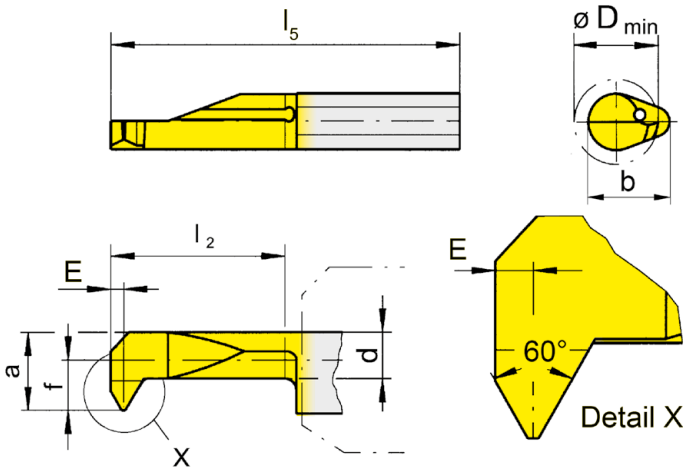
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

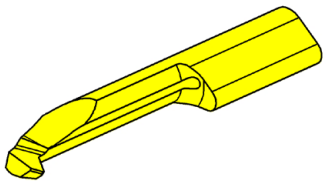
Schneidplatte
Insert

105

Ø ≥ 4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

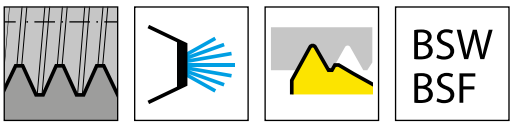
Bestellnummer Part number	TPI_{min}	TPI_{max}	E	f	a	d	b	l_2	l_5	D_{min}	HIS	MG12	EG35	TF45	TH35	TI25	TN35
R105.3240.2.4	32	40	0,45	1,9	3,7	2,7	6,4	15	30	4	105124		▲			Δ	▲
R105.1620.2.5	16	20	0,7	2,3	4,7	3,3	7	15	30	5	105125		▲		▲		
R105.1620.3.5	16	20	0,7	2,3	4,7	3,3	7	20	35	5	105125		Δ		▲		
R105.2428.2.5	24	28	0,55	2,3	4,7	3,5	7	15	30	5	105125		▲			Δ	▲
R105.3240.2.5	32	40	0,45	2,3	4,7	3,5	7	15	30	5	105125		▲	Δ		Δ	▲
R105.1620.2.6	16	20	0,7	3,3	5,7	3,7	7	15	30	6	105125		▲	Δ	Δ	Δ	▲
R105.1620.3.6	16	20	0,7	3,3	5,7	3,7	7	20	35	6	105125		▲				▲
R105.1620.4.6	16	20	0,7	3,3	5,7	3,7	7	25	40	6	105125		▲				▲
R105.2428.2.6	24	28	0,55	3,3	5,7	3,7	7	15	30	6	105125	Δ	▲			Δ	▲
R105.2428.3.6	24	28	0,55	3,3	5,7	3,7	7	20	35	6	105125		▲				▲
R105.2428.4.6	24	28	0,55	3,3	5,7	3,7	7	25	40	6	105125		▲				▲
L105.3240.2.4	32	40	0,45	1,9	3,7	2,7	6,4	15	30	4	105124		Δ				▲
L105.1620.2.5	16	20	0,7	2,3	4,7	3,3	7	15	30	5	105125		Δ		▲		
L105.1620.3.5	16	20	0,7	2,3	4,7	3,3	7	20	35	5	105125		Δ		Δ		
L105.2428.2.5	24	28	0,55	2,3	4,7	3,5	7	15	30	5	105125		Δ				▲
L105.3240.2.5	32	40	0,45	2,3	4,7	3,5	7	15	30	5	105125		Δ				▲
L105.1620.2.6	16	20	0,7	3,3	5,7	3,7	7	15	30	6	105125		Δ				▲
L105.1620.3.6	16	20	0,7	3,3	5,7	3,7	7	20	35	6	105125		Δ				Δ
L105.1620.4.6	16	20	0,7	3,3	5,7	3,7	7	25	40	6	105125		Δ				Δ
L105.2428.2.6	24	28	0,55	3,3	5,7	3,7	7	15	30	6	105125		▲				▲
L105.2428.3.6	24	28	0,55	3,3	5,7	3,7	7	20	35	6	105125		Δ				Δ
L105.2428.4.6	24	28	0,55	3,3	5,7	3,7	7	25	40	6	105125		Δ				▲

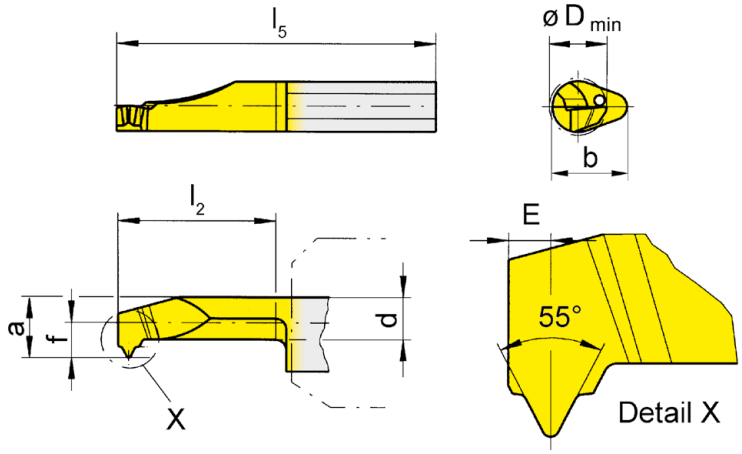
P	o	●	●	●	●	●
M	-	●	●	●	●	●
K	-	o	●	●	●	●
N	-	-	●	●	●	●
S	-	-	●	●	●	●
H	-	-	-	-	-	-

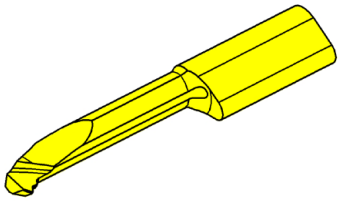
Schneidplatte
Insert

105

Ø ≥ 4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

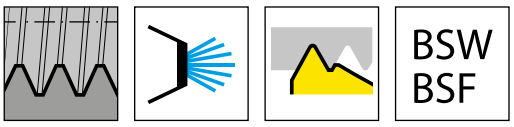
Δ 4 Wochen
4 weeks

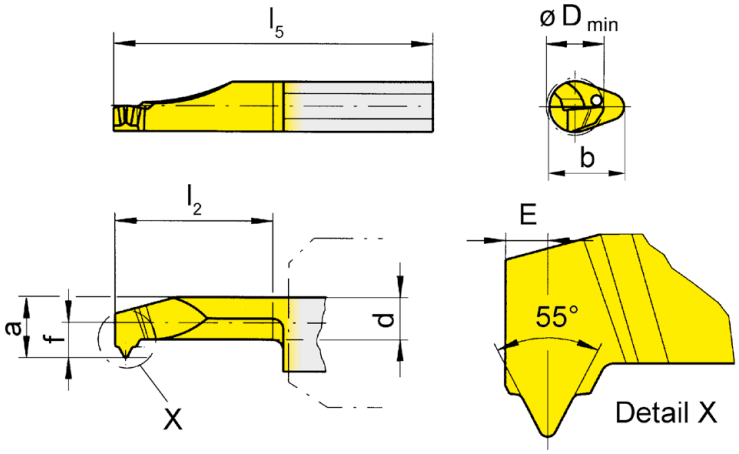
Bestellnummer Part number	TPI	E	f	a	d	b	l_2	l_5	D_{min}	HIS	EG35	TN35
R105.5520.2.4	20	1	1,9	3,7	2,5	6,4	15	30	4	105124	▲	▲
R105.5524.2.5	24	0,8	2,3	4,7	3,5	7	15	30	5	105125	Δ	Δ
R105.5526.2.5	26	0,8	2,3	4,7	3,5	7	15	30	5	105125		▲
R105.5528.2.5	28	0,8	2,3	4,7	3,5	7	15	30	5	105125	▲	▲
L105.5524.2.5	24	0,8	2,3	4,7	3,5	7	15	30	5	105125	Δ	Δ
L105.5526.2.5	26	0,8	2,3	4,7	3,5	7	15	30	5	105125	Δ	Δ
L105.5528.2.5	28	0,8	2,3	4,7	3,5	7	15	30	5	105125	Δ	Δ
											P ●	●
											M ●	●
											K o	●
											N -	●
											S -	●
											H -	-

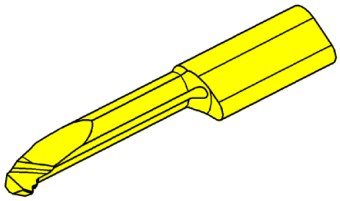
Schneidplatte
Insert

105

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

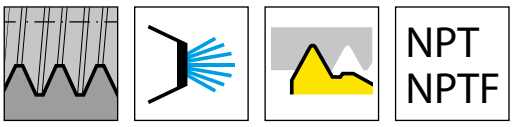
Δ 4 Wochen
4 weeks

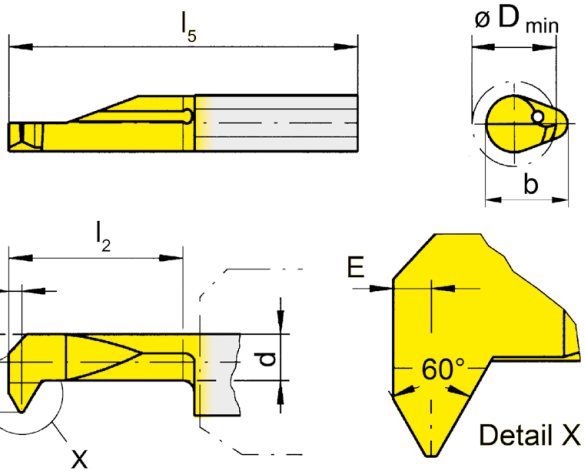
Bestellnummer Part number	TPI	E	f	a	d	b	l_2	l_5	D_{min}	HIS		EG35	TH35	TN35
R105.5524.2.6	24	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
R105.5526.2.6	26	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		▲
R105.5528.2.6	28	0,8	3,3	5,7	3,7	7	15	30	6	105125		▲		▲
R105.5519.2.6	19	1	3,3	5,7	3,7	7	15	30	6	105125		▲	Δ	▲
R105.5520.2.6	20	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		▲
R105.5522.2.6	22	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
R105.5524.3.6	24	0,8	3,3	5,7	3,7	7	20	35	6	105125		Δ		Δ
R105.5526.3.6	26	0,8	3,3	5,7	3,7	7	20	35	6	105125		Δ		Δ
R105.5528.3.6	28	0,8	3,3	5,7	3,7	7	20	35	6	105125		▲		▲
R105.5519.3.6	19	1	3,3	5,7	3,7	7	20	35	6	105125		▲		▲
R105.5522.3.6	22	1	3,3	5,7	3,7	7	20	35	6	105125		Δ		Δ
L105.5524.2.6	24	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
L105.5526.2.6	26	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
L105.5528.2.6	28	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
L105.5519.2.6	19	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		▲
L105.5520.2.6	20	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
L105.5522.2.6	22	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ
L105.5528.3.6	28	0,8	3,3	5,7	3,7	7	20	35	6	105125		Δ		Δ
											P	●	●	●
											M	●	●	●
											K	o	●	●
											N	-	●	●
											S	-	●	●
											H	-	-	-

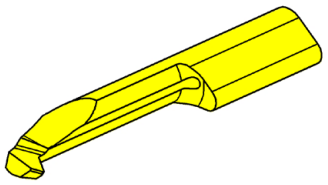
Schneidplatte
Insert

105

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

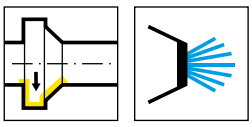
HM-Sorten
Carbide grades

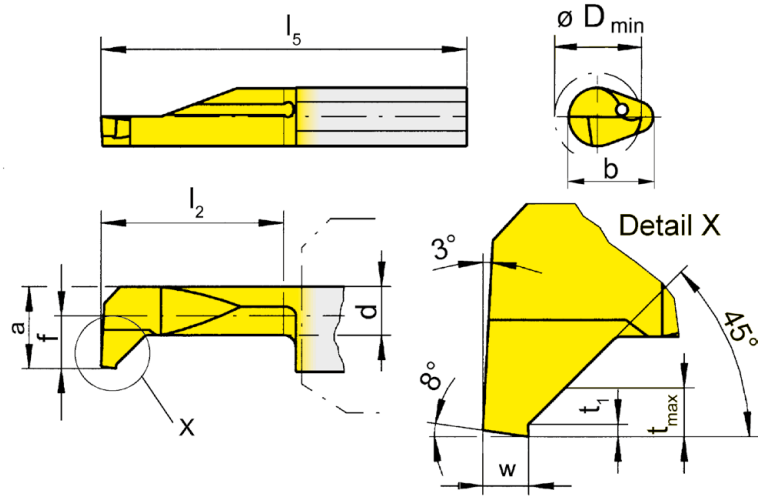
Bestellnummer Part number	TPI	E	f	a	d	b	l_2	l_5	D_{min}	HIS	MG12	EG35	TH35	TI25	TN35
R105.NP18.2.6	18	1	3,3	5,7	3,7	7	15	30	6	105125	Δ	▲		Δ	▲
R105.NP18.3.6	18	1	3,3	5,7	3,7	7	20	35	6	105125		Δ	▲		▲
R105.NP18.4.6	18	1	3,3	5,7	3,7	7	25	40	6	105125		Δ	Δ		▲
R105.NP27.2.6	27	0,8	3,3	5,7	3,7	7	15	30	6	105125		▲		▲	▲
R105.NP27.3.6	27	0,8	3,3	5,7	3,7	7	20	35	6	105125		Δ	Δ	Δ	Δ
R105.NP27.4.6	27	0,8	3,3	5,7	3,7	7	25	40	6	105125		Δ	Δ		Δ
L105.NP18.2.6	18	1	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ	▲
L105.NP18.3.6	18	1	3,3	5,7	3,7	7	20	35	6	105125		Δ	Δ		Δ
L105.NP18.4.6	18	1	3,3	5,7	3,7	7	25	40	6	105125		Δ	Δ		Δ
L105.NP27.2.6	27	0,8	3,3	5,7	3,7	7	15	30	6	105125		Δ		Δ	▲
L105.NP27.3.6	27	0,8	3,3	5,7	3,7	7	20	35	6	105125		Δ	Δ	Δ	
L105.NP27.4.6	27	0,8	3,3	5,7	3,7	7	25	40	6	105125		Δ	Δ		Δ
											P	o	●	●	●	●
											M	-	●	●	●	●
											K	-	o	●	●	●
											N	-	-	●	●	●
											S	-	-	●	●	●
											H	-	-	-	-	-

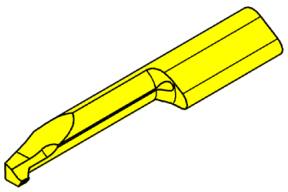
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

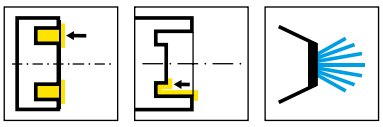
Δ 4 Wochen
4 weeks

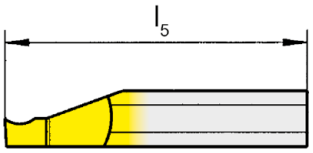
Bestellnummer Part number	w	f	a	d	b	l_2	l_5	t_{max}	t_1	D_{min}	HIS		MG12	EG35	TI25	TN35
R105.0810.1.3	0,7	1,4	2,7	2	5,9	10	25	0,5	0,2	3	105123			▲		▲
R105.0810.2.3	0,7	1,4	2,7	2	5,9	15	30	0,5	0,2	3	105123			Δ		▲
R105.0810.1.4	1	1,9	3,7	2,7	6,4	10	25	0,7	0,2	4	105124			▲		▲
R105.0810.2.4	1	1,9	3,7	2,7	6,4	15	30	0,7	0,2	4	105124			▲		▲
R105.0810.3.4	1	1,9	3,7	2,7	6,4	20	35	0,7	0,2	4	105124			Δ		▲
R105.0810.2.5	1	2,3	4,7	3,5	7	15	30	0,7	0,2	5	105125		▲	▲		▲
R105.0810.3.5	1	2,3	4,7	3,5	7	20	35	0,7	0,2	5	105125			▲	▲	▲
R105.0810.4.5	1	2,3	4,7	3,5	7	25	40	0,7	0,2	5	105125			▲	▲	▲
R105.0810.5.5	1	2,3	4,7	3,5	7	30	45	0,7	0,2	5	105125			Δ	▲	▲
R105.0810.5.6	1	3,1	5,5	4,2	7	30	45	1	0,2	6	105125			▲		▲
R105.0810.7.6	1	3,1	5,5	4,2	7	40	55	1	0,2	6	105125			Δ		▲
L105.0810.1.3	0,7	1,4	2,7	2	5,9	10	25	0,5	0,2	3	105123			Δ		▲
L105.0810.2.3	0,7	1,4	2,7	2	5,9	15	30	0,5	0,2	3	105123			Δ		▲
L105.0810.1.4	1	1,9	3,7	2,7	6,4	10	25	0,7	0,2	4	105124			Δ		Δ
L105.0810.2.4	1	1,9	3,7	2,7	6,4	15	30	0,7	0,2	4	105124			Δ		▲
L105.0810.3.4	1	1,9	3,7	2,7	6,4	20	35	0,7	0,2	4	105124			Δ		▲
L105.0810.2.5	1	2,3	4,7	3,5	7	15	30	0,7	0,2	5	105125		▲	▲		▲
L105.0810.3.5	1	2,3	4,7	3,5	7	20	35	0,7	0,2	5	105125			Δ	▲	▲
L105.0810.4.5	1	2,3	4,7	3,5	7	25	40	0,7	0,2	5	105125			Δ	▲	▲
L105.0810.5.5	1	2,3	4,7	3,5	7	30	45	0,7	0,2	5	105125			Δ	▲	Δ
L105.0810.5.6	1	3,1	5,5	4,2	7	30	45	1	0,2	6	105125			Δ		▲
L105.0810.7.6	1	3,1	5,5	4,2	7	40	55	1	0,2	6	105125			Δ		Δ
												P	o	●	●	●
												M	-	●	●	●
												K	-	o	●	●
												N	-	-	●	●
												S	-	-	●	●
												H	-	-	-	-

Schneidplatte
Insert

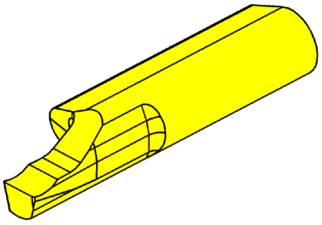
105

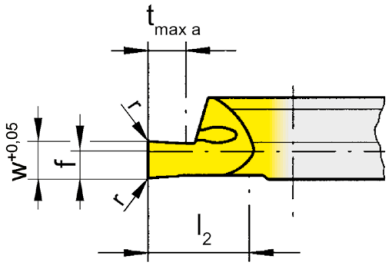
Ø ≥ 5 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

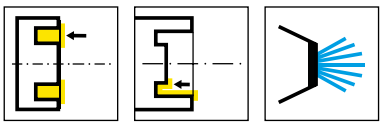
Δ 4 Wochen
4 weeks

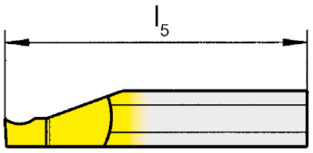
Bestellnummer Part number	w	r	f	b	l_2	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	MG12	AN25	EG35	ES15	TI25
R105.0505.1.8	0,5	-	2	7	10	25	2	5	105125		▲	▲	▲	
R105.0510.1.8	1	0,05	2	7	10	25	2	5	105125	▲		▲		▲
R105.0515.1.8	1,5	0,05	2	7	10	25	3	5	105125	▲		▲		▲
R105.0520.1.8	2	0,05	2	7	10	25	5	5	105125	▲		▲		▲
R105.0510.2.8	1	0,05	2	7	15	35	2	5	105125	Δ		▲		▲
R105.0515.2.8	1,5	0,05	2	7	15	35	3	5	105125	Δ		▲		▲
R105.0520.2.8	2	0,05	2	7	15	35	5	5	105125	Δ		▲		▲
L105.0510.1.8	1	0,05	2	7	10	25	2	5	105125	▲		▲		▲
L105.0515.1.8	1,5	0,05	2	7	10	25	3	5	105125	▲		▲		▲
L105.0520.1.8	2	0,05	2	7	10	25	5	5	105125	Δ		▲		▲
L105.0510.2.8	1	0,05	2	7	15	35	2	5	105125	Δ		Δ		▲
L105.0515.2.8	1,5	0,05	2	7	15	35	3	5	105125	Δ		▲		▲
L105.0520.2.8	2	0,05	2	7	15	35	5	5	105125	Δ		▲		▲
P										o	●	●	●	●
M										-	o	●	●	●
K										-	-	o	o	●
N										-	-	-	-	●
S										-	-	-	-	●
H										-	-	-	-	-

Schneidplatte
Insert

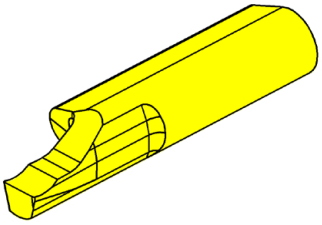
105

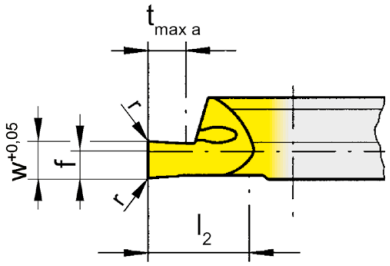
Ø ≥ 6 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

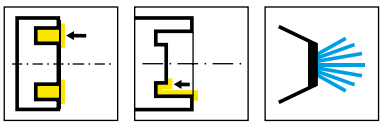
Δ 4 Wochen
4 weeks

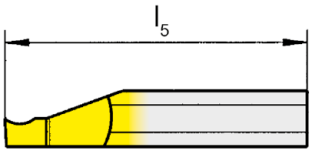
Bestellnummer Part number	w	r	f	b	l_2	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	MG12	EG35	TI25
R105.0610.1.8	1	0,05	2	7	10	25	2	6	105125	▲	▲	▲
R105.0615.1.8	1,5	0,05	2	7	10	25	3	6	105125	▲	▲	▲
R105.0620.1.8	2	0,05	2	7	10	25	5	6	105125	▲	▲	▲
R105.0610.2.8	1	0,05	2	7	15	35	2	6	105125	▲	▲	▲
R105.0615.2.8	1,5	0,05	2	7	15	35	3	6	105125	▲	▲	▲
R105.0620.2.8	2	0,05	2	7	15	35	5	6	105125	▲	▲	▲
L105.0610.1.8	1	0,05	2	7	10	25	2	6	105125	Δ	▲	▲
L105.0615.1.8	1,5	0,05	2	7	10	25	3	6	105125	Δ	▲	▲
L105.0620.1.8	2	0,05	2	7	10	25	5	6	105125	Δ	▲	▲
L105.0610.2.8	1	0,05	2	7	15	35	2	6	105125	Δ	Δ	▲
L105.0615.2.8	1,5	0,05	2	7	15	35	3	6	105125	Δ	Δ	▲
L105.0620.2.8	2	0,05	2	7	15	35	5	6	105125	Δ	Δ	▲
										P	o	●	●
										M	-	●	●
										K	-	o	●
										N	-	-	●
										S	-	-	●
										H	-	-	-

Schneidplatte
Insert

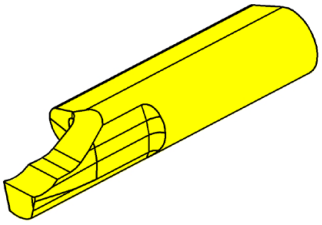
105

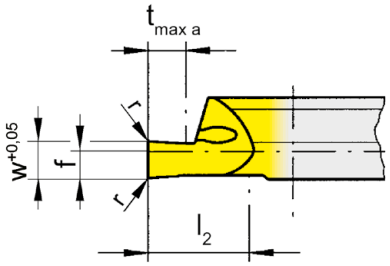
Ø ≥ 8 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

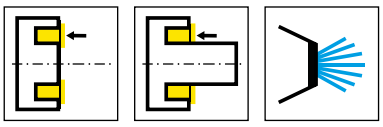
Bestellnummer Part number	w	r	f	b	l_2	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	EG35	T125
R105.0810.1.8	1	0,15	2	7	10	25	2	8	105125	▲	▲
R105.0815.1.8	1,5	0,15	2	7	10	25	3	8	105125	▲	▲
R105.0820.1.8	2	0,15	2	7	10	25	4	8	105125	▲	▲
R105.0825.1.8	2,5	0,15	2	7	10	25	5	8	105125	▲	▲
R105.0830.1.8	3	0,15	2	7	10	25	6	8	105125	▲	▲
R105.0810.2.8	1	0,15	2	7	15	35	2	8	105125	▲	▲
R105.0815.2.8	1,5	0,15	2	7	15	35	3	8	105125	▲	▲
R105.0820.2.8	2	0,15	2	7	15	35	4	8	105125	▲	▲
R105.0825.2.8	2,5	0,15	2	7	15	35	5	8	105125	▲	▲
R105.0830.2.8	3	0,15	2	7	15	35	6	8	105125	▲	▲
L105.0810.1.8	1	0,15	2	7	10	25	2	8	105125	▲	▲
L105.0815.1.8	1,5	0,15	2	7	10	25	3	8	105125	▲	▲
L105.0820.1.8	2	0,15	2	7	10	25	4	8	105125	▲	▲
L105.0825.1.8	2,5	0,15	2	7	10	25	5	8	105125	▲	▲
L105.0830.1.8	3	0,15	2	7	10	25	6	8	105125	▲	▲
L105.0810.2.8	1	0,15	2	7	15	35	2	8	105125	▲	▲
L105.0815.2.8	1,5	0,15	2	7	15	35	3	8	105125	▲	▲
L105.0820.2.8	2	0,15	2	7	15	35	4	8	105125	▲	▲
L105.0825.2.8	2,5	0,15	2	7	15	35	5	8	105125	▲	▲
L105.0830.2.8	3	0,15	2	7	15	35	6	8	105125	▲	▲

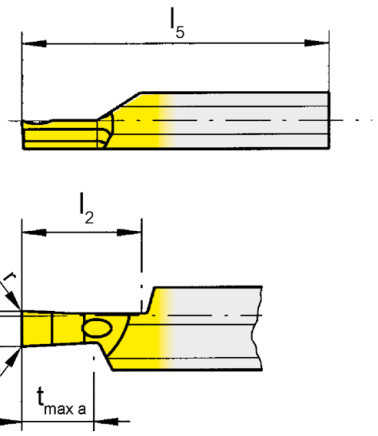
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

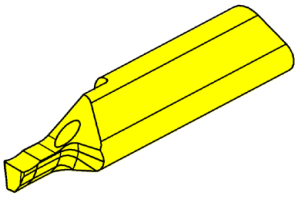
Schneidplatte
Insert

105

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

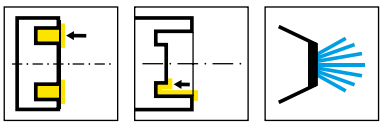
Δ 4 Wochen
4 weeks

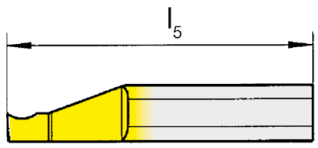
Bestellnummer Part number	w	r	f	b	l_2	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	EG35	T125
R105.0810.1.9	1	0,15	0,4	7	10	25	2	8	105125	▲	▲
R105.0815.1.9	1,5	0,15	0,4	7	10	25	3	8	105125	▲	▲
R105.0820.1.9	2	0,15	0,4	7	10	25	4	8	105125	▲	▲
R105.0825.1.9	2,5	0,15	0,4	7	10	25	5	8	105125	▲	▲
R105.0830.1.9	3	0,15	0,4	7	10	25	6	8	105125	▲	▲
L105.0810.1.9	1	0,15	0,4	7	10	25	2	8	105125	▲	▲
L105.0815.1.9	1,5	0,15	0,4	7	10	25	3	8	105125	▲	▲
L105.0820.1.9	2	0,15	0,4	7	10	25	4	8	105125	▲	▲
L105.0825.1.9	2,5	0,15	0,4	7	10	25	5	8	105125	▲	▲
L105.0830.1.9	3	0,15	0,4	7	10	25	6	8	105125	▲	▲
									P	●	●
									M	●	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

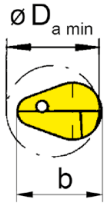
Schneidplatte
Insert

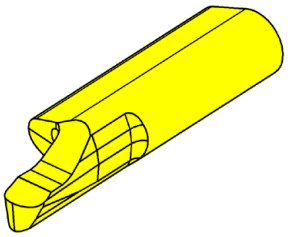
105

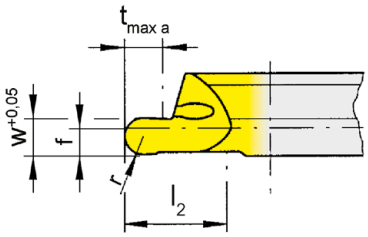
Ø ≥ 8 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

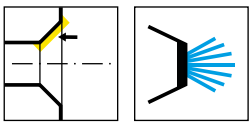
Bestellnummer Part number	w	r	f	b	l_2	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	EG35	T125
R105.8V10.1.8	1	0,5	2	7	10	25	2	8	105125	▲	▲
R105.8V16.1.8	1,6	0,8	2	7	10	25	3	8	105125	▲	▲
R105.8V20.1.8	2	1	2	7	10	25	4	8	105125	▲	▲
R105.8V25.1.8	2,5	1,25	2	7	10	25	5	8	105125	▲	▲
R105.8V30.1.8	3	1,5	2	7	10	25	6	8	105125	▲	▲
R105.8V10.2.8	1	0,5	2	7	15	35	2	8	105125	▲	▲
R105.8V16.2.8	1,6	0,8	2	7	15	35	3	8	105125	▲	▲
R105.8V20.2.8	2	1	2	7	15	35	4	8	105125	▲	▲
R105.8V25.2.8	2,5	1,25	2	7	15	35	5	8	105125	▲	▲
R105.8V30.2.8	3	1,5	2	7	15	35	6	8	105125	▲	▲
L105.8V10.1.8	1	0,5	2	7	10	25	2	8	105125	▲	▲
L105.8V16.1.8	1,6	0,8	2	7	10	25	3	8	105125	▲	▲
L105.8V20.1.8	2	1	2	7	10	25	4	8	105125	▲	▲
L105.8V25.1.8	2,5	1,25	2	7	10	25	5	8	105125	Δ	▲
L105.8V30.1.8	3	1,5	2	7	10	25	6	8	105125	▲	▲
L105.8V10.2.8	1	0,5	2	7	15	35	2	8	105125	Δ	▲
L105.8V16.2.8	1,6	0,8	2	7	15	35	3	8	105125	Δ	▲
L105.8V20.2.8	2	1	2	7	15	35	4	8	105125	▲	▲
L105.8V25.2.8	2,5	1,25	2	7	15	35	5	8	105125	Δ	Δ
L105.8V30.2.8	3	1,5	2	7	15	35	6	8	105125	Δ	▲

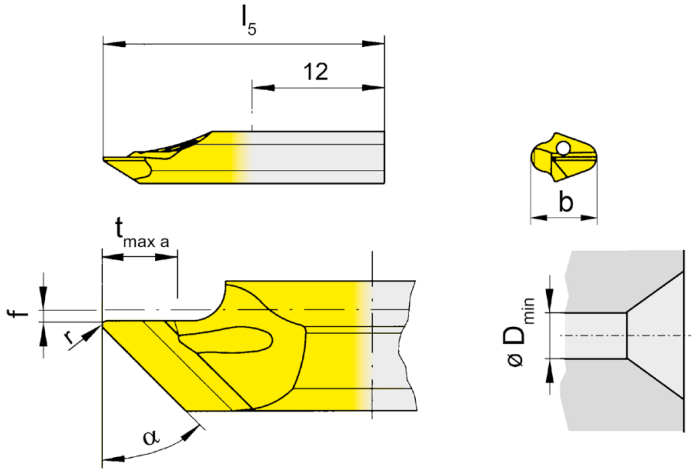
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

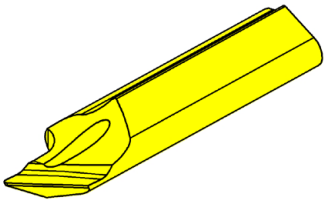
Schneidplatte
Insert

105

Ø ≥ 1 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

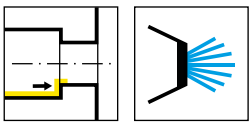
Δ 4 Wochen
4 weeks

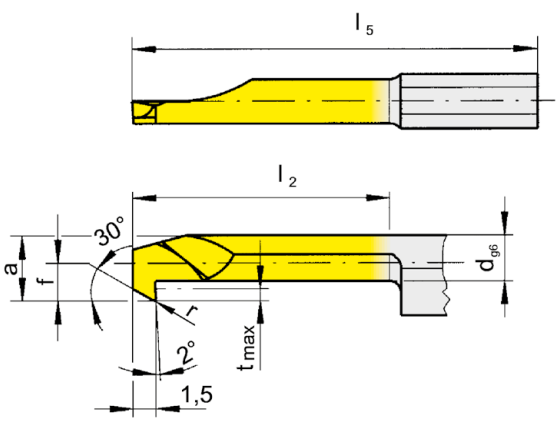
Bestellnummer Part number	r	f	b	l_5	$t_{max\ a}$	D_{min}	α	HIS	EG35	TF45	TI25	TN35
R105.0045.0.1	0,2	0,5	5,9	20	3,5	1	45°	105123	▲	▲		▲
R105.0045.1.1	0,2	0,5	5,9	25	3,5	1	45°	105123	▲	▲	Δ	
R105.0060.0.1	0,2	0,5	5,9	20	4	1	60°	105123	▲	▲		
R105.0060.1.1	0,2	0,5	5,9	25	4	1	60°	105123	▲	▲	Δ	
L105.0045.0.1	0,2	0,5	5,9	20	3,5	1	45°	105123	▲	▲		▲
L105.0045.1.1	0,2	0,5	5,9	25	3,5	1	45°	105123	▲	▲	Δ	
L105.0060.0.1	0,2	0,5	5,9	20	4	1	60°	105123	▲	▲		
L105.0060.1.1	0,2	0,5	5,9	25	4	1	60°	105123	▲	▲	Δ	
P									●	●	●	●
M									●	●	●	●
K									o	●	●	●
N									-	●	●	●
S									-	●	●	●
H									-	-	-	-

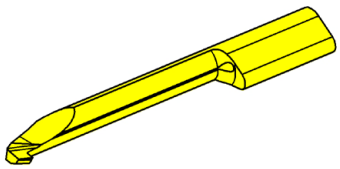
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

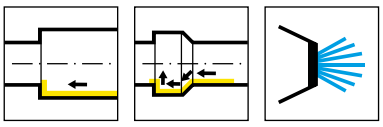
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TH35	TI25
R105.3013.2.3	0,1	1,3	2,6	1,9	5,9	15	30	0,5	3	105123	▲	Δ	▲
R105.3013.3.3	0,1	1,3	2,6	1,9	5,9	20	35	0,5	3	105123	▲		▲
R105.3019.2.4	0,15	1,9	3,7	2,7	6,4	15	30	0,8	4	105124	▲		▲
R105.3019.4.4	0,15	1,9	3,7	2,7	6,4	25	40	0,8	4	105124	▲		▲
R105.3023.3.5	0,2	2,3	4,7	3,5	7	20	35	1	5	105125	▲		▲
R105.3023.5.5	0,2	2,3	4,7	3,5	7	30	45	1	5	105125	▲		▲
R105.3033.3.6	0,2	3,3	5,7	3,7	7	20	35	1,8	6	105125	▲		▲
R105.3033.5.6	0,2	3,3	5,7	3,7	7	30	45	1,8	6	105125	▲		▲
R105.3040.3.7	0,2	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲		▲
R105.3040.5.7	0,2	4	6,4	3,7	7	30	45	2,5	6,8	105125	▲		▲
L105.3013.2.3	0,1	1,3	2,6	1,9	5,9	15	30	0,5	3	105123	Δ		▲
L105.3013.3.3	0,1	1,3	2,6	1,9	5,9	20	35	0,5	3	105123	Δ		Δ
L105.3019.2.4	0,15	1,9	3,7	2,7	6,4	15	30	0,8	4	105124			Δ
L105.3019.4.4	0,15	1,9	3,7	2,7	6,4	25	40	0,8	4	105124	Δ		Δ
L105.3023.3.5	0,2	2,3	4,7	3,5	7	20	35	1	5	105125	▲		▲
L105.3023.5.5	0,2	2,3	4,7	3,5	7	30	45	1	5	105125	Δ		Δ
L105.3033.3.6	0,2	3,3	5,7	3,7	7	20	35	1,8	6	105125	Δ		▲
L105.3033.5.6	0,2	3,3	5,7	3,7	7	30	45	1,8	6	105125	Δ		Δ
L105.3040.3.7	0,2	4	6,4	3,7	7	20	35	2,5	6,8	105125	▲		▲
L105.3040.5.7	0,2	4	6,4	3,7	7	30	45	2,5	6,8	105125	Δ		Δ

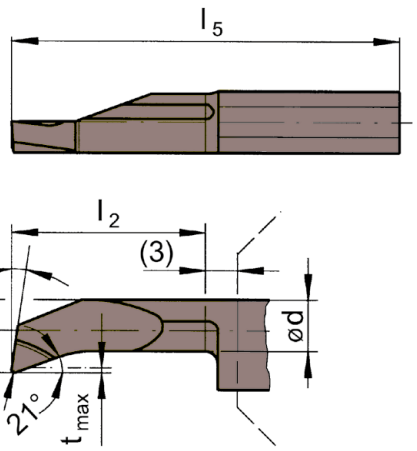
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

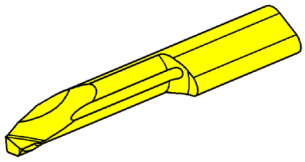
Schneidplatte
Insert

105

Ø ≥ 4 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

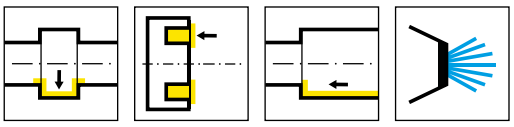
Δ 4 Wochen
4 weeks

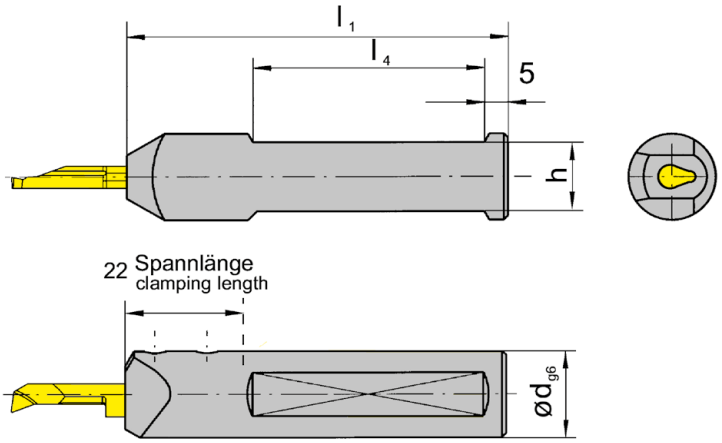
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	HIS	HS36	SG36
R105.1819.01.1.4F	0,1	1,9	3,7	2,9	6,4	10	25	0,3	4	105124		▲
R105.1819.01.2.4F	0,1	1,9	3,7	2,9	6,4	15	30	0,3	4	105124		▲
R105.1823.15.2.5F	0,15	2,3	4,7	4	7	15	30	0,5	5	105125		▲
R105.1823.15.3.5F	0,15	2,3	4,7	4	7	20	35	0,5	5	105125		▲
L105.1819.01.1.4F	0,1	1,9	3,7	2,9	6,4	10	25	0,3	4	105124	Δ	▲
L105.1819.01.2.4F	0,1	1,9	3,7	2,9	6,4	15	30	0,3	4	105124	Δ	▲
L105.1823.15.2.5F	0,15	2,3	4,7	4	7	15	30	0,5	5	105125	Δ	▲
L105.1823.15.3.5F	0,15	2,3	4,7	4	7	20	35	0,5	5	105125		▲

P	-	-
M	-	-
K	-	-
N	-	-
S	-	●
H	●	●

Klemmhalter
Toolholder

B105





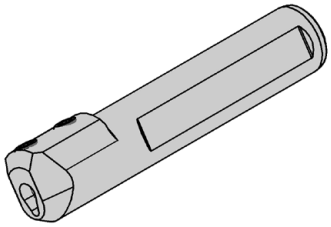


Abbildung = rechtsschneidend
Picture = right hand cutting version

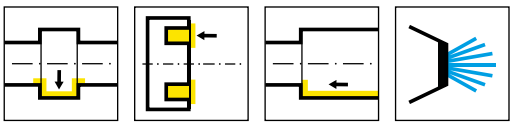
Bestellnummer Part number	d	l_1	h	l_4	HWS
B105.0012.02	12	85	11	50	105225
B105.0016.02	16	85	14	50	105225
B105.0020.02	20	100	18	55	105225
B105.0022.02	22	100	20	55	105225

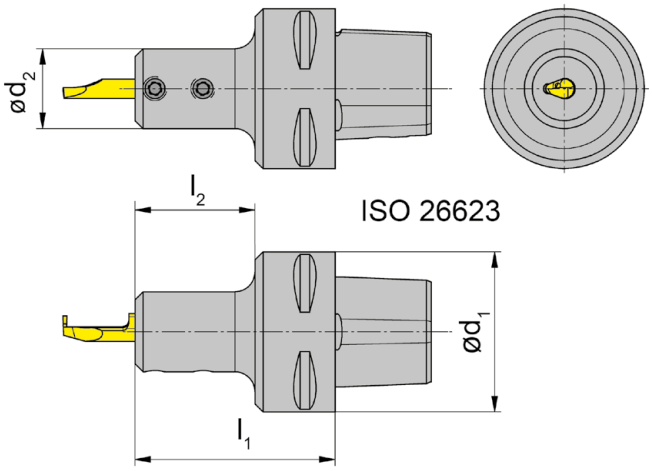
Ersatzteile
Spare Parts

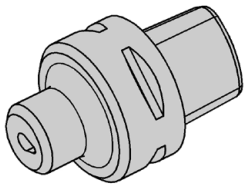
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B105...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B105C







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

Bestellnummer Part number	d_1	d_2	l_1	l_2	HWS
RB105.00C4.20.1.02	40	20	50	20	105225
RB105.00C6.20.1.02	63	20	52	22	105225
LB105.00C4.20.1.02	40	20	50	20	105225
LB105.00C6.20.1.02	63	20	52	22	105225

nur für Schneidplatten mit verlängertem Spannschaft
only usable for inserts with extended clamping length

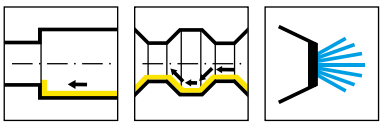
Ersatzteile
Spare Parts

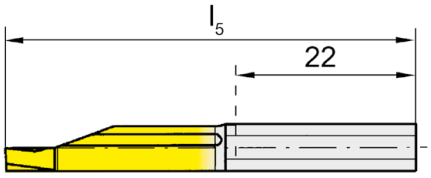
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB105...	**6.075T15P**	**T15PQ**

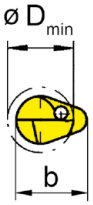
Schneidplatte
Insert

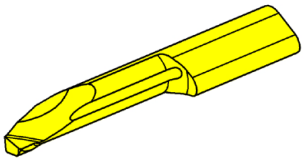
105

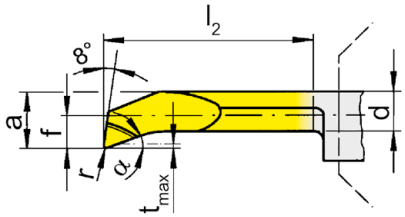
Ø ≥ 5 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

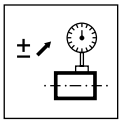
Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	D_{min}	α	HIS	EG35	TH35	TI25	TN35
R105.1823.4.5.2	0,1	2,3	4,7	4,2	7	25	50	0,3	5	21°	105225	Δ	▲	▲	
R105.1823.5.5.2	0,1	2,3	4,7	4,2	7	30	55	0,3	5	20°	105225	Δ	▲	▲	
R105.1833.4.6.2	0,1	3,3	5,7	4,9	7	25	50	0,3	6	21°	105225	Δ	▲	▲	
R105.1833.5.6.2	0,1	3,3	5,7	4,9	7	30	55	0,3	6	21°	105225	Δ	▲	▲	
R105.1840.4.7.2	0,1	4	6,4	5,4	7	25	50	0,3	6,8	21°	105225	Δ	▲	▲	
R105.1840.5.7.2	0,1	4	6,4	5,4	7	30	55	0,3	6,8	20°	105225	Δ	▲	▲	Δ
R105.1840.7.7.2	0,1	4	6,4	5,4	7	40	65	0,3	6,8	20°	105225	Δ		▲	
R105.4733.5.6.2	0,1	3,3	5,7	3,7	7	30	55	1,8	6	47°	105225	Δ	▲	▲	
L105.1823.4.5.2	0,1	2,3	4,7	4,2	7	25	50	0,3	5	21°	105225	Δ	▲	▲	
L105.1823.5.5.2	0,1	2,3	4,7	4,2	7	30	55	0,3	5	20°	105225		▲	Δ	
L105.1833.4.6.2	0,1	3,3	5,7	4,9	7	25	50	0,3	6	21°	105225	Δ	Δ	Δ	
L105.1833.5.6.2	0,1	3,3	5,7	4,9	7	30	55	0,3	6	21°	105225	Δ	▲	Δ	
L105.1840.4.7.2	0,1	4	6,4	5,4	7	25	50	0,3	6,8	21°	105225	Δ	▲	▲	
L105.1840.5.7.2	0,1	4	6,4	5,4	7	30	55	0,3	6,8	20°	105225	Δ	Δ	▲	
L105.1840.7.7.2	0,1	4	6,4	5,4	7	40	65	0,3	6,8	20°	105225	Δ		Δ	
L105.4733.5.6.2	0,1	3,3	5,7	3,7	7	30	55	1,8	6	47°	105225	Δ	Δ	Δ	

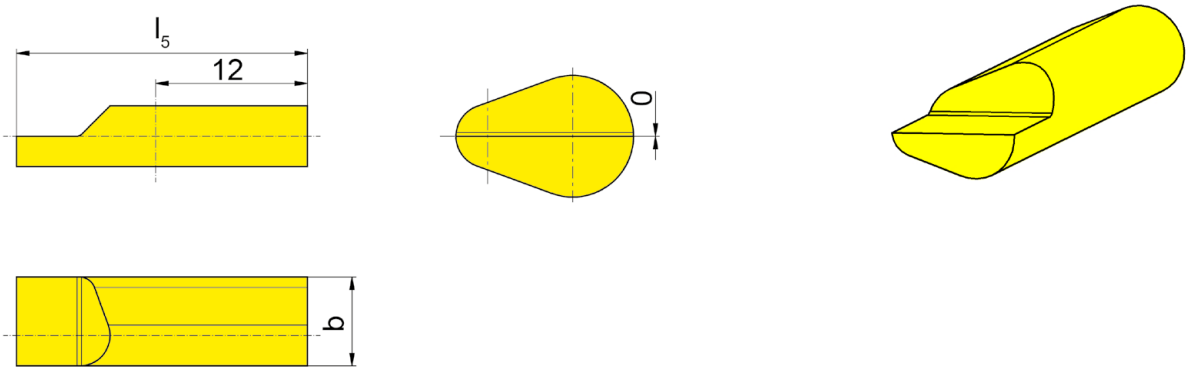
P	●	●	●	●
M	●	●	●	●
K	o	●	●	●
N	-	●	●	●
S	-	●	●	●
H	-	-	-	-

mit verlängertem Spannschaft
with extended clamping length

Platte
Insert

105





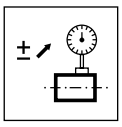
R = rechts wie gezeichnet
R = right hand version shown

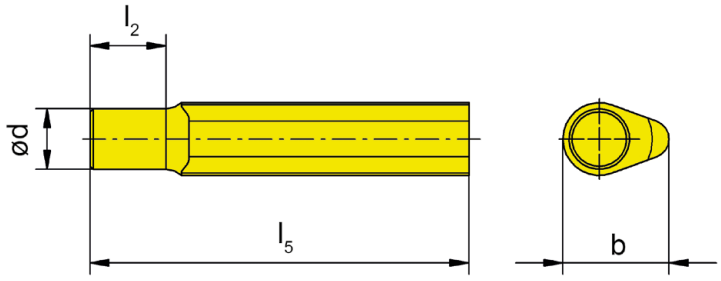
Bestellnummer Part number	l_5	b	HIS
R105.LEHR.H.03	25	5,9	105123
L105.LEHR.H.03	25	5,9	105123
R105.LEHR.H.04	25	6,4	105124
L105.LEHR.H.04	25	6,4	105124
R105.LEHR.H.05	25	7,0	105125
L105.LEHR.H.05	25	7,0	105125

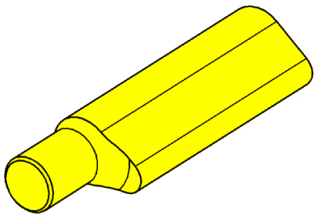
Platte zum Einrichten des Werkzeugs
Insert for tool set up

Platte
Insert

105





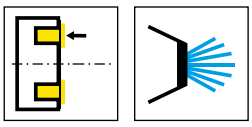


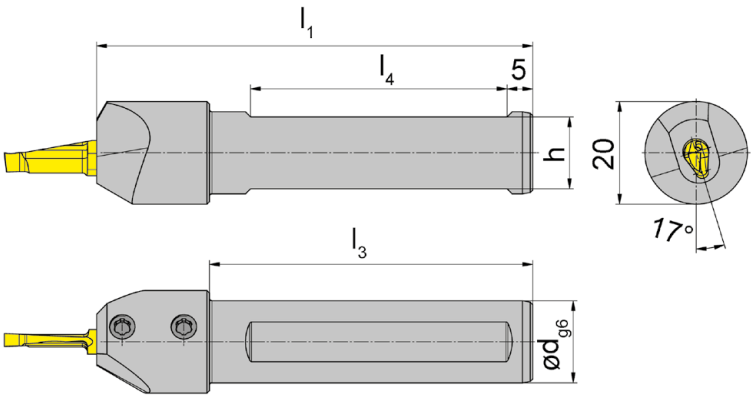
Bestellnummer Part number	d	b	l_2	l_5	HIS
105.LEHR.D.03	1,7	5,9	3	25	105123
105.LEHR.D.04	1,7	6,4	3	25	105124
105.LEHR.D.05	4	7	5	25	105125

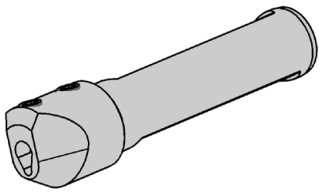
Platte zum Einrichten des Werkzeugs
Insert for tool set up

Klemmhalter
Toolholder

B105







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

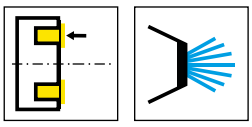
Bestellnummer Part number	d	l_1	l_3	h	l_4	HWS
RB105.0016.12.2	16	85	63	14	50	105225
RB105.0020.12.2	20	100	63	18	55	105225
LB105.0016.12.2	16	85	63	14	50	105225
LB105.0020.12.2	20	100	63	18	55	105225

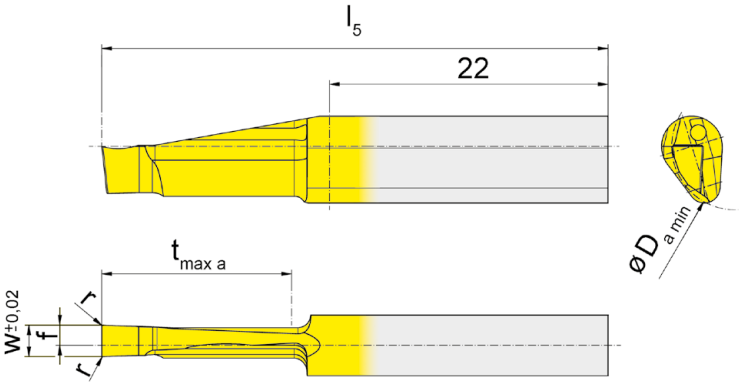
Ersatzteile
Spare Parts

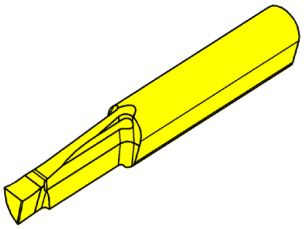
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB105...	**6.075T15P**	**T15PQ**

Schneidplatte
Insert

A105 Ø ≥ 10 mm







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

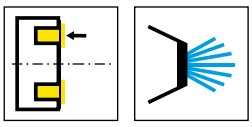
Bestellnummer Part number	w	r	f	l_5	$t_{max\ a}$	$D_{a\ min}$	$D_{a\ max}$	HIS		EG35	T125
RA105.1020.2.2	2	0,1	1,4	40	15	10	44	105225		▲	▲
RA105.1025.2.2	2,5	0,1	1,6	40	15	10	45	105225		▲	▲
RA105.1030.2.2	3	0,1	1	40	15	10	46	105225		▲	▲
LA105.1020.2.2	2	0,1	1,4	40	15	10	44	105225		▲	▲
LA105.1025.2.2	2,5	0,1	1,6	40	15	10	45	105225		▲	▲
LA105.1030.2.2	3	0,1	1	40	15	10	46	105225		▲	▲
									P	●	●
									M	●	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

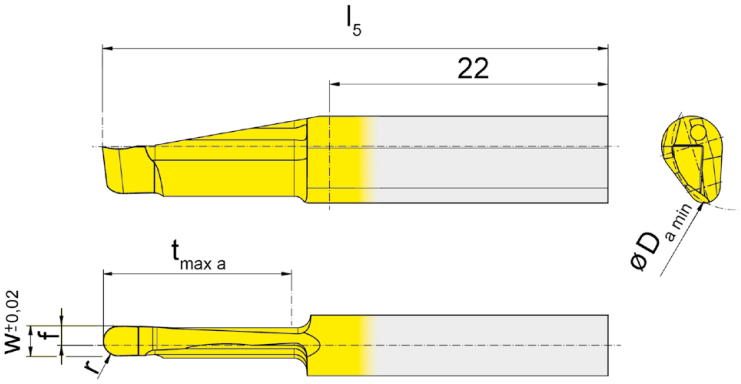
Axialstechen ins Volle bei voller Stechtiefe nur bei Da min 10 - 40 mm möglich!
Face grooving with full width of the full depth only possible between Da min 10 - 40 mm!

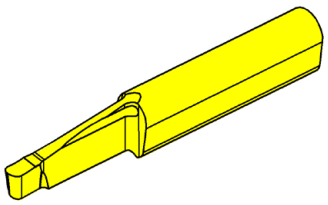
Schneidplatte
Insert

A105

Ø ≥ 10 mm







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	r	f	l_5	$t_{max\ a}$	$D_{a\ min}$	$D_{a\ max}$	HIS	EG35	T125
RA105.1020.10.2.2	2	1	1,4	40	15	10	44	105225	▲	▲
RA105.1025.12.2.2	2,5	1,25	1,6	40	15	10	45	105225	Δ	▲
RA105.1030.15.2.2	3	1,5	1,9	40	15	10	46	105225	▲	▲
LA105.1020.10.2.2	2	1	1,4	40	15	10	44	105225	Δ	▲
LA105.1025.12.2.2	2,5	1,25	1,6	40	15	10	45	105225	Δ	Δ
LA105.1030.15.2.2	3	1,5	1,9	40	15	10	46	105225	Δ	▲

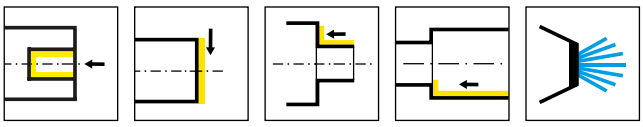
P	●	●
M	●	●
K	o	●
N	-	●
S	-	●
H	-	-

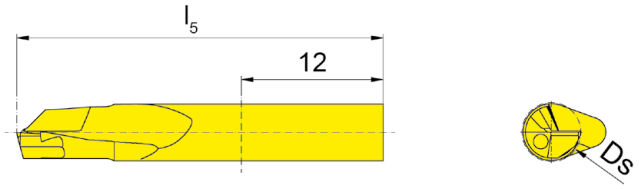
Axialstechen ins Volle bei voller Stechtiefe nur bei Da min 10 - 40 mm möglich!
Face grooving with full width of the full depth only possible between Da min 10 - 40 mm!

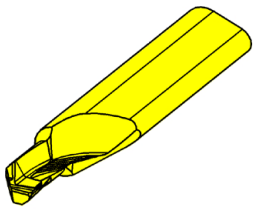
Schneidplatte
Insert

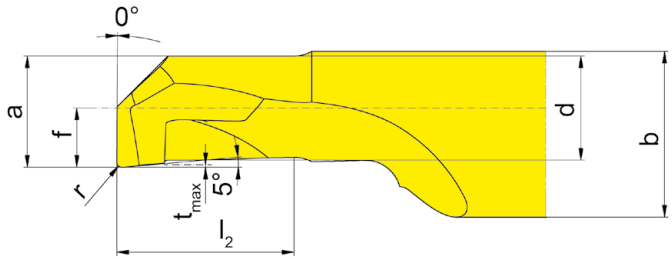
105

Ø ≥ 3 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	Ds	HIS	EG35
R105.BO.30.20.045.1	0,2	1,5	2,7	2,4	7	4,5	31	0,1	3	105125	▲
R105.BO.30.20.075.1	0,2	1,5	2,7	2,4	7	7,5	31	0,1	3	105125	▲
R105.BO.40.20.060.1	0,2	2	3,7	3,4	7	6	31	0,1	4	105125	▲
R105.BO.40.20.100.1	0,2	2	3,7	3,4	7	10	31	0,1	4	105125	▲
R105.BO.50.20.075.1	0,2	2,5	4,7	4,4	7	7,5	31	0,1	5	105125	▲
R105.BO.50.20.125.1	0,2	2,5	4,7	4,4	7	12,5	36	0,1	5	105125	▲
R105.BO.60.20.090.1	0,2	3	5,4	5,1	7	9	31	0,1	6	105125	▲
R105.BO.60.20.150.1	0,2	3	5,4	5,1	7	15	36	0,1	6	105125	▲
R105.BO.70.20.105.1	0,2	3,5	5,9	5,6	7	10,5	36	0,1	7	105125	▲
R105.BO.70.20.175.1	0,2	3,5	5,9	5,6	7	17,5	40	0,1	7	105125	▲
L105.BO.30.20.045.1	0,2	1,5	2,7	2,4	7	4,5	31	0,1	3	105125	Δ
L105.BO.30.20.075.1	0,2	1,5	2,7	2,4	7	7,5	31	0,1	3	105125	Δ
L105.BO.40.20.060.1	0,2	2	3,7	3,4	7	6	31	0,1	4	105125	Δ
L105.BO.40.20.100.1	0,2	2	3,7	3,4	7	10	31	0,1	4	105125	Δ
L105.BO.50.20.075.1	0,2	2,5	4,7	4,4	7	7,5	31	0,1	5	105125	Δ
L105.BO.50.20.125.1	0,2	2,5	4,7	4,4	7	12,5	36	0,1	5	105125	Δ
L105.BO.60.20.090.1	0,2	3	5,4	5,1	7	9	31	0,1	6	105125	Δ
L105.BO.60.20.150.1	0,2	3	5,4	5,1	7	15	36	0,1	6	105125	Δ
L105.BO.70.20.105.1	0,2	3,5	5,9	5,6	7	10,5	36	0,1	7	105125	Δ
L105.BO.70.20.175.1	0,2	3,5	5,9	5,6	7	17,5	40	0,1	7	105125	Δ

mit innerer Kühlmittelzufuhr ab Schneidkreisdurchmesser 5 mm
with through coolant supply from cutting diameter 5 mm

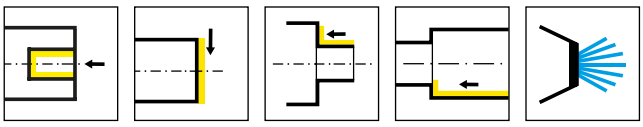
mit Spantreppe
with chip breaker

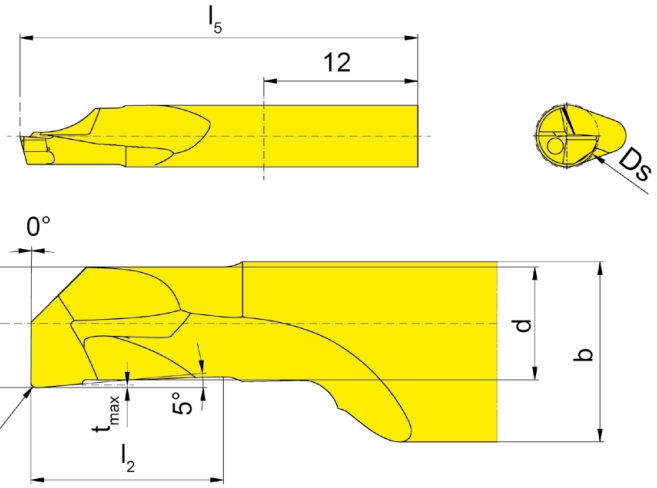
P	●
M	●
K	o
N	-
S	-
H	-

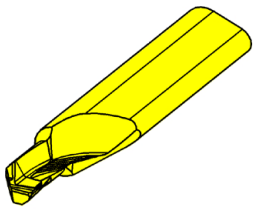
Schneidplatte
Insert

105

Ø ≥ 3 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	b	l_2	l_5	t_{max}	Ds	HIS	EG35
R105.BO.30.20.045.2	0,2	1,5	2,7	2,4	7	4,5	31	0,1	3	105125	▲
R105.BO.30.20.075.2	0,2	1,5	2,7	2,4	7	7,5	31	0,1	3	105125	▲
R105.BO.40.20.060.2	0,2	2	3,7	3,4	7	6	31	0,1	4	105125	▲
R105.BO.40.20.100.2	0,2	2	3,7	3,4	7	10	31	0,1	4	105125	▲
R105.BO.50.20.075.2	0,2	2,5	4,7	4,4	7	7,5	31	0,1	5	105125	▲
R105.BO.50.20.125.2	0,2	2,5	4,7	4,4	7	12,5	36	0,1	5	105125	▲
R105.BO.60.20.090.2	0,2	3	5,4	5,1	7	9	31	0,1	6	105125	▲
R105.BO.60.20.150.2	0,2	3	5,4	5,1	7	15	36	0,1	6	105125	▲
R105.BO.70.20.105.2	0,2	3,5	5,9	5,6	7	10,5	36	0,1	7	105125	▲
R105.BO.70.20.175.2	0,2	3,5	5,9	5,6	7	17,5	40	0,1	7	105125	▲
L105.BO.30.20.045.2	0,2	1,5	2,7	2,4	7	4,5	31	0,1	3	105125	Δ
L105.BO.30.20.075.2	0,2	1,5	2,7	2,4	7	7,5	31	0,1	3	105125	Δ
L105.BO.40.20.060.2	0,2	2	3,7	3,4	7	6	31	0,1	4	105125	Δ
L105.BO.40.20.100.2	0,2	2	3,7	3,4	7	10	31	0,1	4	105125	Δ
L105.BO.50.20.075.2	0,2	2,5	4,7	4,4	7	7,5	31	0,1	5	105125	Δ
L105.BO.50.20.125.2	0,2	2,5	4,7	4,4	7	12,5	36	0,1	5	105125	Δ
L105.BO.60.20.090.2	0,2	3	5,4	5,1	7	9	31	0,1	6	105125	Δ
L105.BO.60.20.150.2	0,2	3	5,4	5,1	7	15	36	0,1	6	105125	Δ
L105.BO.70.20.105.2	0,2	3,5	5,9	5,6	7	10,5	36	0,1	7	105125	Δ
L105.BO.70.20.175.2	0,2	3,5	5,9	5,6	7	17,5	40	0,1	7	105125	Δ

mit innerer Kühlmittelzufuhr ab Schneidkreisdurchmesser 5 mm
with through coolant supply from cutting diameter 5 mm

Universalgeometrie
universal geometry

P	●
M	●
K	o
N	-
S	-
H	-

B

109

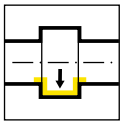


Klemmhalter und Schneidplatten

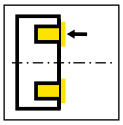
Toolholder and Inserts

B

Klemmhalter
Toolholder
B109

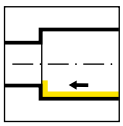


Seite/Page
148-149



Seite/Page
165

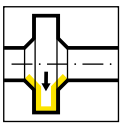
Schneidplatte
Insert
109/A109



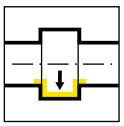
Seite/Page
150-151



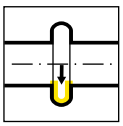
Seite/Page
152-153



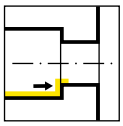
Seite/Page
154



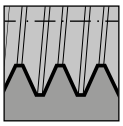
Seite/Page
155-158



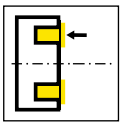
Seite/Page
159



Seite/Page
160

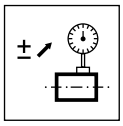


Seite/Page
161-162



Seite/Page
166

Platte
Insert
109

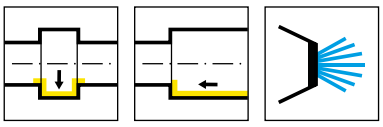


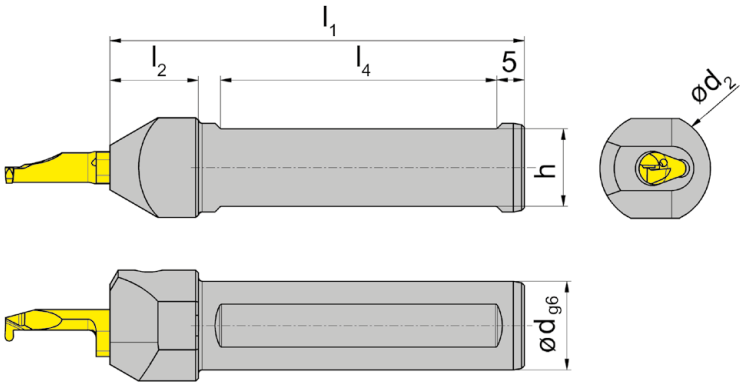
Seite/Page
163-164

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

Klemmhalter
Toolholder

B109





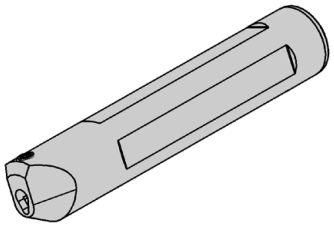


Abbildung = rechtsschneidend
Picture = right hand cutting version

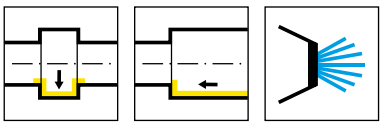
Bestellnummer Part number	d	l_1	h	l_4	l_2	d_2	HWS
B109.0012.01	12	75	10	50	16	20	109140
B109.0016.01	16	75	14	50	16	20	109140
B109.0020.01	20	90	18	55	-	20	109140
B109.0025.01	25	100	23	55	-	25	109140

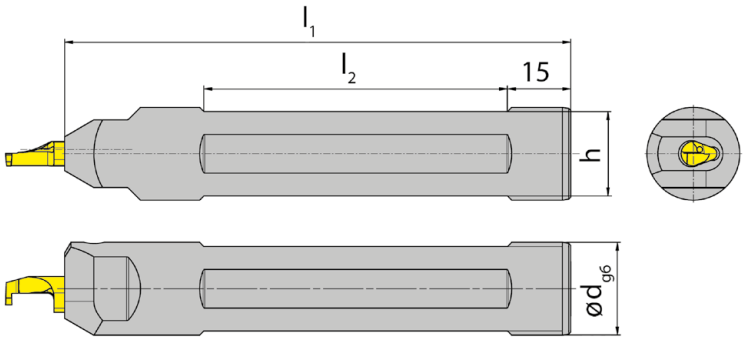
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B109...	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B109





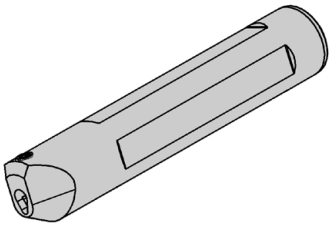


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	h	l_2	HWS
B109.0022.1.2.01	22	120	20	72	109140

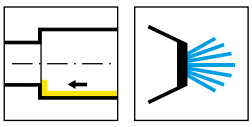
Ersatzteile
Spare Parts

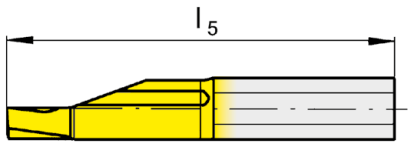
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B109.0022.1.2.01	**6.075T15P**	**T15PQ**

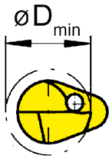
Schneidplatte
Insert

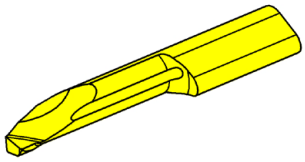
109

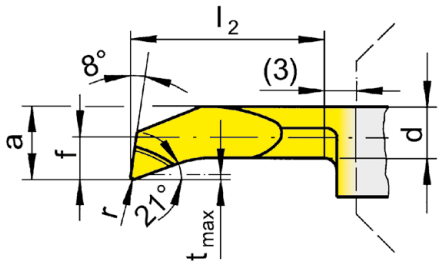
Ø ≥ 6 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

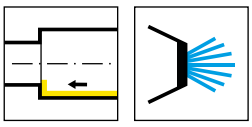
HM-Sorten
Carbide grades

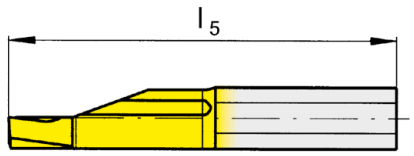
▲ ab Lager
on stock

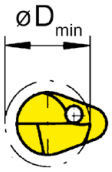
Δ 4 Wochen
4 weeks

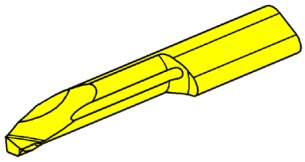
Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.1828.1.6	0,2	2,8	5,7	5	10	28	0,4	6	109140	Δ
R109.1828.2.6	0,2	2,8	5,7	5	15	33	0,4	6	109140	Δ
R109.1828.3.6	0,2	2,8	5,7	5	20	38	0,4	6	109140	▲
R109.1828.4.6	0,2	2,8	5,7	5	25	43	0,4	6	109140	Δ
R109.1828.5.6	0,2	2,8	5,7	5	30	48	0,4	6	109140	Δ
R109.1828.6.6	0,2	2,8	5,7	5	35	53	0,4	6	109140	Δ
R109.1828.7.6	0,2	2,8	5,7	5	40	58	0,4	6	109140	▲
R109.1838.2.7	0,2	3,8	6,7	6	15	33	0,4	7	109140	Δ
R109.1838.3.7	0,2	3,8	6,7	6	20	38	0,4	7	109140	Δ
R109.1838.4.7	0,2	3,8	6,7	6	25	43	0,4	7	109140	Δ
R109.1838.5.7	0,2	3,8	6,7	6	30	48	0,4	7	109140	▲
R109.1838.6.7	0,2	3,8	6,7	6	35	53	0,4	7	109140	▲
R109.1838.7.7	0,2	3,8	6,7	6	40	58	0,4	7	109140	▲
R109.1838.8.7	0,2	3,8	6,7	6	45	63	0,4	7	109140	▲
L109.1828.1.6	0,2	2,8	5,7	5	10	28	0,4	6	109140	Δ
L109.1828.2.6	0,2	2,8	5,7	5	15	33	0,4	6	109140	Δ
L109.1828.3.6	0,2	2,8	5,7	5	20	38	0,4	6	109140	Δ
L109.1828.4.6	0,2	2,8	5,7	5	25	43	0,4	6	109140	
L109.1828.5.6	0,2	2,8	5,7	5	30	48	0,4	6	109140	Δ
L109.1828.6.6	0,2	2,8	5,7	5	35	53	0,4	6	109140	Δ
L109.1828.7.6	0,2	2,8	5,7	5	40	58	0,4	6	109140	Δ
L109.1838.2.7	0,2	3,8	6,7	6	15	33	0,4	7	109140	Δ
L109.1838.3.7	0,2	3,8	6,7	6	20	38	0,4	7	109140	Δ
L109.1838.4.7	0,2	3,8	6,7	6	25	43	0,4	7	109140	Δ
L109.1838.5.7	0,2	3,8	6,7	6	30	48	0,4	7	109140	Δ
L109.1838.6.7	0,2	3,8	6,7	6	35	53	0,4	7	109140	Δ
L109.1838.7.7	0,2	3,8	6,7	6	40	58	0,4	7	109140	Δ
L109.1838.8.7	0,2	3,8	6,7	6	45	63	0,4	7	109140	Δ

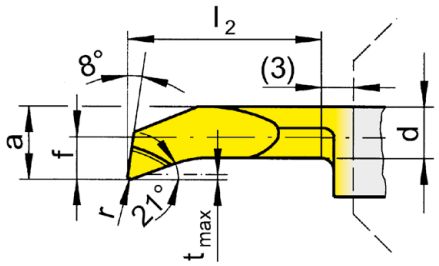
P	●
M	●
K	●
N	●
S	●
H	-











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.1828.04.1.6	0,4	2,8	5,7	5	10	28	0,4	6	109140	Δ
R109.1828.04.2.6	0,4	2,8	5,7	5	15	33	0,4	6	109140	Δ
R109.1828.04.3.6	0,4	2,8	5,7	5	20	38	0,4	6	109140	Δ
R109.1828.04.4.6	0,4	2,8	5,7	5	25	43	0,4	6	109140	Δ
R109.1828.04.6.6	0,4	2,8	5,7	5	35	53	0,4	6	109140	Δ
R109.1828.04.7.6	0,4	2,8	5,7	5	40	58	0,4	6	109140	Δ
R109.1838.04.2.7	0,4	3,8	6,7	6	15	33	0,4	7	109140	Δ
R109.1838.04.3.7	0,4	3,8	6,7	6	20	38	0,4	7	109140	Δ
R109.1838.04.5.7	0,4	3,8	6,7	6	30	48	0,4	7	109140	Δ
R109.1838.04.8.7	0,4	3,8	6,7	6	45	63	0,4	7	109140	▲
L109.1828.04.1.6	0,4	2,8	5,7	5	10	28	0,4	6	109140	Δ
L109.1828.04.2.6	0,4	2,8	5,7	5	15	33	0,4	6	109140	Δ
L109.1828.04.3.6	0,4	2,8	5,7	5	20	38	0,4	6	109140	Δ
L109.1828.04.4.6	0,4	2,8	5,7	5	25	43	0,4	6	109140	Δ
L109.1828.04.6.6	0,4	2,8	5,7	5	35	53	0,4	6	109140	Δ
L109.1828.04.7.6	0,4	2,8	5,7	5	40	58	0,4	6	109140	Δ
L109.1838.04.2.7	0,4	3,8	6,7	6	15	33	0,4	7	109140	Δ
L109.1838.04.3.7	0,4	3,8	6,7	6	20	38	0,4	7	109140	Δ
L109.1838.04.8.7	0,4	3,8	6,7	6	45	63	0,4	7	109140	Δ

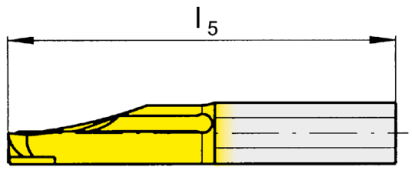
P	●
M	●
K	●
N	●
S	●
H	-

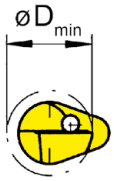
Schneidplatte
Insert

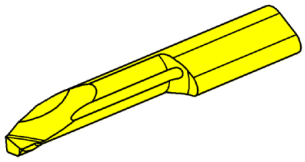
109

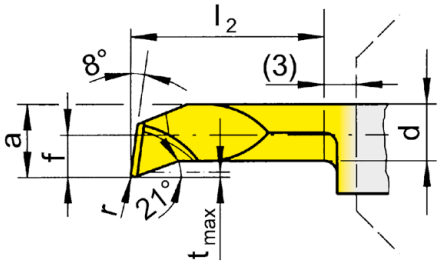
Ø ≥ 6 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

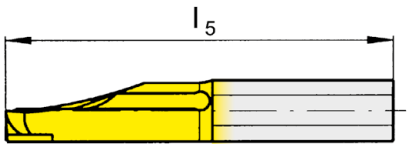
▲ ab Lager
on stock

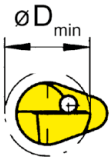
Δ 4 Wochen
4 weeks

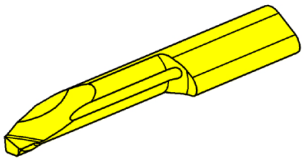
Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		TH35
R109.1828.1.HV6	0,2	2,8	5,7	5	10	28	0,4	6	109140		Δ
R109.1828.2.HV6	0,2	2,8	5,7	5	15	33	0,4	6	109140		Δ
R109.1828.3.HV6	0,2	2,8	5,7	5	20	38	0,4	6	109140		Δ
R109.1828.4.HV6	0,2	2,8	5,7	5	25	43	0,4	6	109140		Δ
R109.1828.5.HV6	0,2	2,8	5,7	5	30	48	0,4	6	109140		▲
R109.1828.6.HV6	0,2	2,8	5,7	5	35	53	0,4	6	109140		▲
R109.1828.7.HV6	0,2	2,8	5,7	5	40	58	0,4	6	109140		▲
R109.1838.3.HV7	0,2	3,8	6,7	6	20	38	0,4	7	109140		Δ
R109.1838.5.HV7	0,2	3,8	6,7	6	30	48	0,4	7	109140		Δ
R109.1838.6.HV7	0,2	3,8	6,7	6	35	53	0,4	7	109140		Δ
R109.1838.7.HV7	0,2	3,8	6,7	6	40	58	0,4	7	109140		Δ
R109.1838.8.HV7	0,2	3,8	6,7	6	45	63	0,4	7	109140		Δ
L109.1828.1.HV6	0,2	2,8	5,7	5	10	28	0,4	6	109140		Δ
L109.1828.2.HV6	0,2	2,8	5,7	5	15	33	0,4	6	109140		Δ
L109.1828.3.HV6	0,2	2,8	5,7	5	20	38	0,4	6	109140		Δ
L109.1828.4.HV6	0,2	2,8	5,7	5	25	43	0,4	6	109140		Δ
L109.1828.5.HV6	0,2	2,8	5,7	5	30	48	0,4	6	109140		
L109.1828.6.HV6	0,2	2,8	5,7	5	35	53	0,4	6	109140		Δ
L109.1828.7.HV6	0,2	2,8	5,7	5	40	58	0,4	6	109140		Δ
L109.1838.2.HV7	0,2	3,8	6,7	6	15	33	0,4	7	109140		Δ
L109.1838.5.HV7	0,2	3,8	6,7	6	30	48	0,4	7	109140		Δ
L109.1838.6.HV7	0,2	3,8	6,7	6	35	53	0,4	7	109140		Δ
L109.1838.7.HV7	0,2	3,8	6,7	6	40	58	0,4	7	109140		Δ
L109.1838.8.HV7	0,2	3,8	6,7	6	45	63	0,4	7	109140		Δ

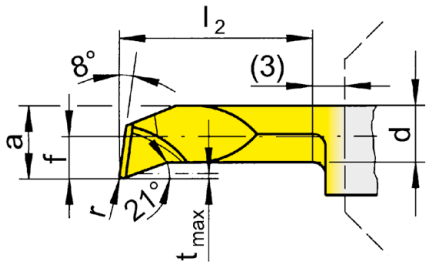
P	●
M	●
K	●
N	●
S	●
H	-











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

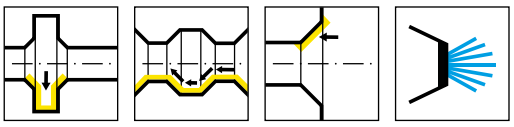
Δ 4 Wochen
4 weeks

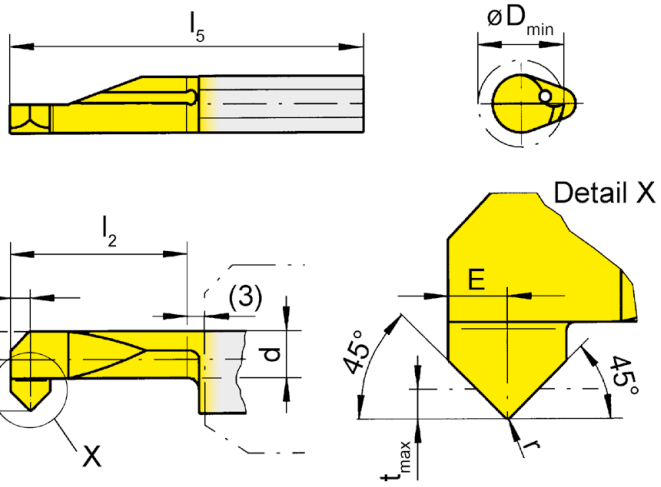
Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		TH35
R109.1828.04.1.HV6	0,4	2,8	5,7	5	10	28	0,4	6	109140		Δ
R109.1828.04.2.HV6	0,4	2,8	5,7	5	15	33	0,4	6	109140		Δ
R109.1828.04.3.HV6	0,4	2,8	5,7	5	20	38	0,4	6	109140		Δ
R109.1828.04.4.HV6	0,4	2,8	5,7	5	25	43	0,4	6	109140		Δ
R109.1828.04.5.HV6	0,4	2,8	5,7	5	30	48	0,4	6	109140		Δ
R109.1828.04.6.HV6	0,4	2,8	5,7	5	35	53	0,4	6	109140		Δ
R109.1828.04.7.HV6	0,4	2,8	5,7	5	40	58	0,4	6	109140		Δ
R109.1838.04.2.HV7	0,4	3,8	6,7	6	15	33	0,4	7	109140		Δ
R109.1838.04.3.HV7	0,4	3,8	6,7	6	20	38	0,4	7	109140		Δ
R109.1838.04.4.HV7	0,4	3,8	6,7	6	25	43	0,4	7	109140		Δ
R109.1838.04.5.HV7	0,4	3,8	6,7	6	30	48	0,4	7	109140		Δ
R109.1838.04.6.HV7	0,4	3,8	6,7	6	35	53	0,4	7	109140		Δ
R109.1838.04.7.HV7	0,4	3,8	6,7	6	40	58	0,4	7	109140		Δ
R109.1838.04.8.HV7	0,4	3,8	6,7	6	45	63	0,4	7	109140		▲
L109.1828.04.1.HV6	0,4	2,8	5,7	5	10	28	0,4	6	109140		Δ
L109.1828.04.2.HV6	0,4	2,8	5,7	5	15	33	0,4	6	109140		Δ
L109.1828.04.3.HV6	0,4	2,8	5,7	5	20	38	0,4	6	109140		
L109.1828.04.4.HV6	0,4	2,8	5,7	5	25	43	0,4	6	109140		Δ
L109.1828.04.5.HV6	0,4	2,8	5,7	5	30	48	0,4	6	109140		Δ
L109.1828.04.6.HV6	0,4	2,8	5,7	5	35	53	0,4	6	109140		Δ
L109.1828.04.7.HV6	0,4	2,8	5,7	5	40	58	0,4	6	109140		Δ
L109.1838.04.2.HV7	0,4	3,8	6,7	6	15	33	0,4	7	109140		Δ
L109.1838.04.3.HV7	0,4	3,8	6,7	6	20	38	0,4	7	109140		Δ
L109.1838.04.4.HV7	0,4	3,8	6,7	6	25	43	0,4	7	109140		Δ
L109.1838.04.5.HV7	0,4	3,8	6,7	6	30	48	0,4	7	109140		Δ
L109.1838.04.6.HV7	0,4	3,8	6,7	6	35	53	0,4	7	109140		Δ
L109.1838.04.7.HV7	0,4	3,8	6,7	6	40	58	0,4	7	109140		Δ
										P	●
										M	●
										K	●
										N	●
										S	●
										H	-

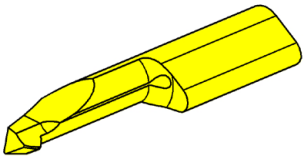
Schneidplatte
Insert

109

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

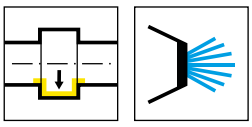
Δ 4 Wochen
4 weeks

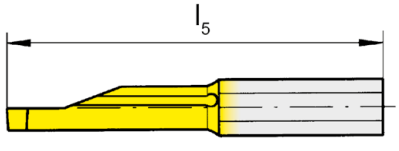
Bestellnummer Part number	r	f	E	a	d	l_2	l_5	t_{max}	D_{min}	HIS		TH35
R109.4545.3.6	0,2	2,8	1,2	5,7	4,3	20	38	0,9	6	109140		Δ
R109.4545.5.7	0,2	3,8	1,2	6,7	5,3	30	48	0,9	7	109140		▲
L109.4545.3.6	0,2	2,8	1,2	5,7	4,3	20	38	0,9	6	109140		Δ
L109.4545.5.7	0,2	3,8	1,2	6,7	5,3	30	48	0,9	7	109140		Δ
											P	●
											M	●
											K	●
											N	●
											S	●
											H	-

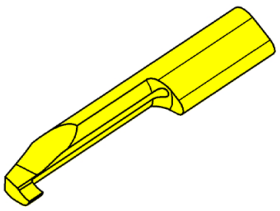
Schneidplatte
Insert

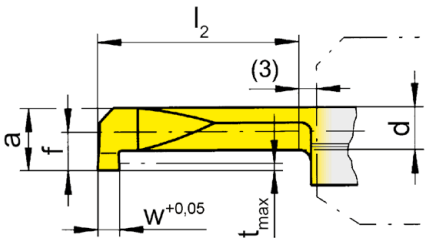
109

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

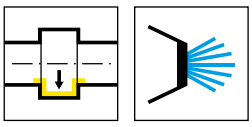
Bestellnummer Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.0100.1.6	1	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
R109.0150.1.6	1,5	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
R109.0200.1.6	2	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
R109.0100.2.6	1	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
R109.0150.2.6	1,5	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
R109.0200.2.6	2	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
R109.0100.3.6	1	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
R109.0150.3.6	1,5	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
R109.0200.3.6	2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
L109.0100.1.6	1	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
L109.0150.1.6	1,5	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
L109.0200.1.6	2	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
L109.0100.2.6	1	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
L109.0150.2.6	1,5	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
L109.0200.2.6	2	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
L109.0100.3.6	1	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
L109.0150.3.6	1,5	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
L109.0200.3.6	2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ

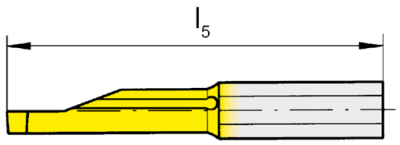
P	●
M	●
K	●
N	●
S	●
H	-

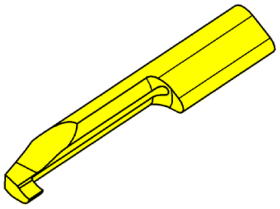
Schneidplatte
Insert

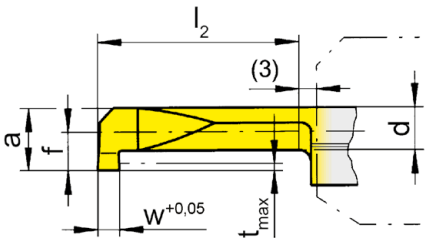
109

Ø ≥ 6 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

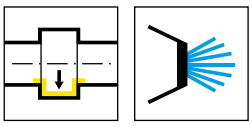
Bestellnummer Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.0150.4.6	1,5	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
R109.0150.5.6	1,5	2,8	5,7	3,7	30	48	1,8	6	109140	Δ
R109.0150.6.6	1,5	2,8	5,7	3,7	35	53	1,8	6	109140	Δ
R109.0200.1.6	2	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
R109.0200.2.6	2	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
R109.0200.3.6	2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
R109.0200.4.6	2	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
R109.0200.5.6	2	2,8	5,7	3,7	30	48	1,8	6	109140	Δ
R109.0200.6.6	2	2,8	5,7	3,7	35	53	1,8	6	109140	▲
L109.0150.6.6	1,5	2,8	5,7	3,7	35	53	1,8	6	109140	Δ
L109.0200.1.6	2	2,8	5,7	3,7	10	28	1,8	6	109140	Δ
L109.0200.2.6	2	2,8	5,7	3,7	15	33	1,8	6	109140	Δ
L109.0200.3.6	2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
L109.0200.4.6	2	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
L109.0200.6.6	2	2,8	5,7	3,7	35	53	1,8	6	109140	Δ

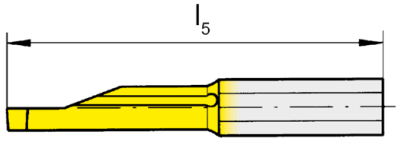
P	●
M	●
K	●
N	●
S	●
H	-

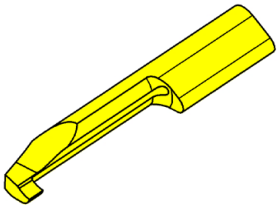
Schneidplatte
Insert

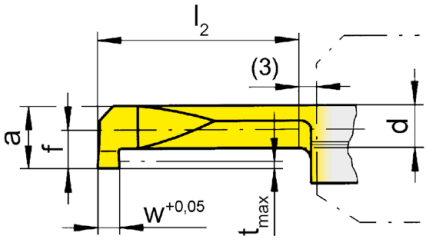
109

Ø ≥ 7 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

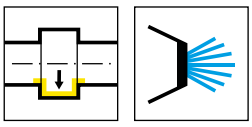
Bestellnummer Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.0100.1.7	1	3,8	6,7	4	10	28	2,5	7	109140	Δ
R109.0150.1.7	1,5	3,8	6,7	4	10	28	2,5	7	109140	Δ
R109.0200.1.7	2	3,8	6,7	4	10	28	2,5	7	109140	▲
R109.0100.2.7	1	3,8	6,7	4	15	33	2,5	7	109140	Δ
R109.0150.2.7	1,5	3,8	6,7	4	15	33	2,5	7	109140	▲
R109.0200.2.7	2	3,8	6,7	4	15	33	2,5	7	109140	▲
R109.0100.3.7	1	3,8	6,7	4	20	38	2,5	7	109140	Δ
R109.0150.3.7	1,5	3,8	6,7	4	20	38	2,5	7	109140	Δ
R109.0200.3.7	2	3,8	6,7	4	20	38	2,5	7	109140	Δ
L109.0100.1.7	1	3,8	6,7	4	10	28	2,5	7	109140	Δ
L109.0150.1.7	1,5	3,8	6,7	4	10	28	2,5	7	109140	Δ
L109.0200.1.7	2	3,8	6,7	4	10	28	2,5	7	109140	Δ
L109.0100.2.7	1	3,8	6,7	4	15	33	2,5	7	109140	Δ
L109.0150.2.7	1,5	3,8	6,7	4	15	33	2,5	7	109140	Δ
L109.0200.2.7	2	3,8	6,7	4	15	33	2,5	7	109140	Δ
L109.0100.3.7	1	3,8	6,7	4	20	38	2,5	7	109140	Δ
L109.0200.3.7	2	3,8	6,7	4	20	38	2,5	7	109140	Δ

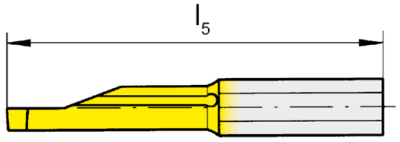
P	●
M	●
K	●
N	●
S	●
H	-

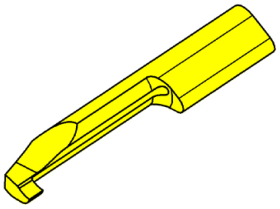
Schneidplatte
Insert

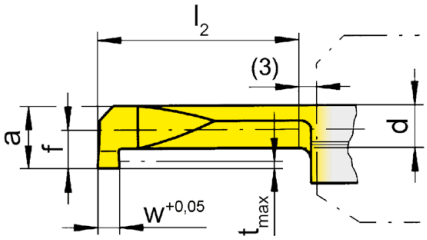
109

Ø ≥ 7 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

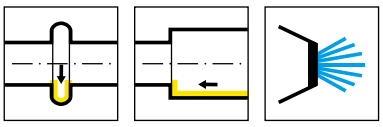
Bestellnummer Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.0150.4.7	1,5	3,8	6,7	4	25	43	2,5	7	109140	Δ
R109.0150.5.7	1,5	3,8	6,7	4	30	48	2,5	7	109140	Δ
R109.0150.6.7	1,5	3,8	6,7	4	35	53	2,5	7	109140	Δ
R109.0200.1.7	2	3,8	6,7	4	10	28	2,5	7	109140	▲
R109.0200.2.7	2	3,8	6,7	4	15	33	2,5	7	109140	▲
R109.0200.3.7	2	3,8	6,7	4	20	38	2,5	7	109140	Δ
R109.0200.4.7	2	3,8	6,7	4	25	43	2,5	7	109140	Δ
R109.0200.5.7	2	3,8	6,7	4	30	48	2,5	7	109140	▲
R109.0200.6.7	2	3,8	6,7	4	35	53	2,5	7	109140	▲
L109.0150.4.7	1,5	3,8	6,7	4	25	43	2,5	7	109140	Δ
L109.0150.5.7	1,5	3,8	6,7	4	30	48	2,5	7	109140	Δ
L109.0150.6.7	1,5	3,8	6,7	4	35	53	2,5	7	109140	Δ
L109.0200.1.7	2	3,8	6,7	4	10	28	2,5	7	109140	Δ
L109.0200.2.7	2	3,8	6,7	4	15	33	2,5	7	109140	Δ
L109.0200.3.7	2	3,8	6,7	4	20	38	2,5	7	109140	Δ
L109.0200.4.7	2	3,8	6,7	4	25	43	2,5	7	109140	Δ
L109.0200.5.7	2	3,8	6,7	4	30	48	2,5	7	109140	Δ
L109.0200.6.7	2	3,8	6,7	4	35	53	2,5	7	109140	Δ

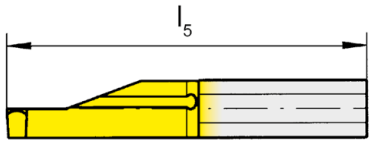
P	●
M	●
K	●
N	●
S	●
H	-

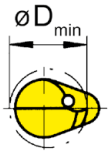
Schneidplatte
Insert

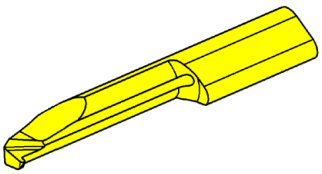
109

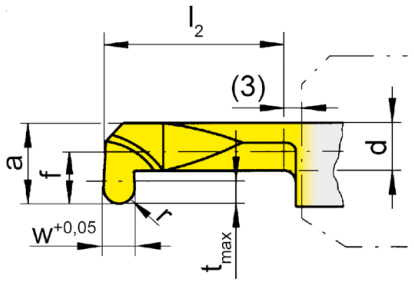
Ø ≥ 6 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

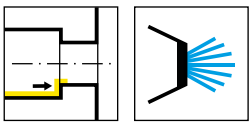
Bestellnummer Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.0005.4.6	1	0,5	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
R109.0007.4.6	1,5	0,75	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
R109.0010.4.6	2	1	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
R109.0005.6.7	1	0,5	3,8	6,7	4	35	53	2,5	7	109140	Δ
R109.0007.6.7	1,5	0,75	3,8	6,7	4	35	53	2,5	7	109140	Δ
R109.0010.6.7	2	1	3,8	6,7	4	35	53	2,5	7	109140	▲
L109.0005.4.6	1	0,5	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
L109.0007.4.6	1,5	0,75	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
L109.0010.4.6	2	1	2,8	5,7	3,7	25	43	1,8	6	109140	Δ
L109.0005.6.7	1	0,5	3,8	6,7	4	35	53	2,5	7	109140	Δ
L109.0007.6.7	1,5	0,75	3,8	6,7	4	35	53	2,5	7	109140	Δ
L109.0010.6.7	2	1	3,8	6,7	4	35	53	2,5	7	109140	Δ

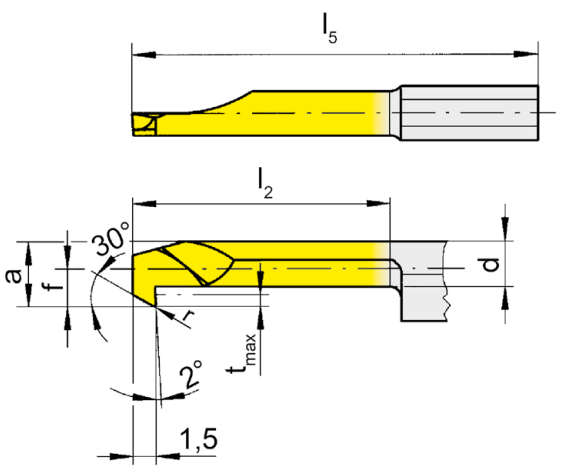
P	●
M	●
K	●
N	●
S	●
H	-

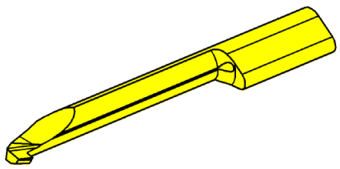
Schneidplatte
Insert

109

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

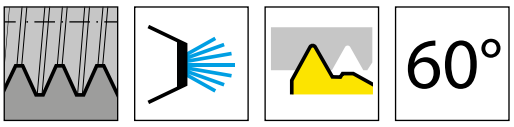
Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	TH35
R109.3028.3.6	0,2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
R109.3028.5.6	0,2	2,8	5,7	3,7	30	48	1,8	6	109140	Δ
R109.3038.3.7	0,2	3,8	6,7	4	20	38	2,5	7	109140	▲
R109.3038.5.7	0,2	3,8	6,7	4	30	48	2,5	7	109140	▲
L109.3028.3.6	0,2	2,8	5,7	3,7	20	38	1,8	6	109140	Δ
L109.3028.5.6	0,2	2,8	5,7	3,7	30	48	1,8	6	109140	Δ
L109.3038.3.7	0,2	3,8	6,7	4	20	38	2,5	7	109140	Δ
L109.3038.5.7	0,2	3,8	6,7	4	30	48	2,5	7	109140	

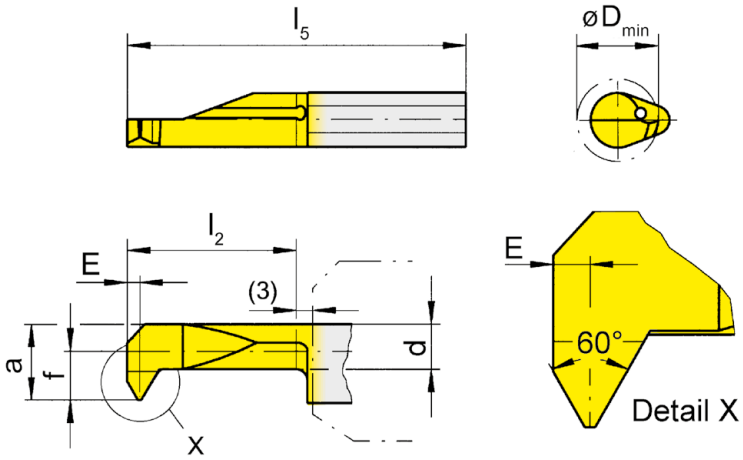
P	●
M	●
K	●
N	●
S	●
H	-

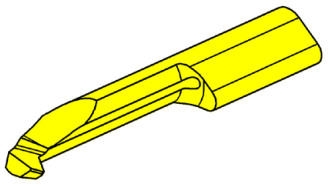
Schneidplatte
Insert

109

Ø ≥ 7 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

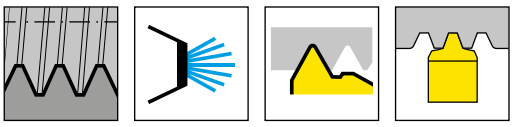
Bestellnummer Part number	P	P_{max}	E	f	a	d	l_2	l_5	D_{min}	HIS	TH35
R109.0815.1.7	1,5	1,75	0,9	3,8	6,7	5,1	10	28	7	109140	Δ
R109.0815.3.7	1,5	1,75	0,9	3,8	6,7	5,1	20	38	7	109140	▲
R109.0815.5.7	1,5	1,75	0,9	3,8	6,7	5,1	30	48	7	109140	▲
L109.0815.1.7	1,5	1,75	0,9	3,8	6,7	5,1	10	28	7	109140	Δ
L109.0815.3.7	1,5	1,75	0,9	3,8	6,7	5,1	20	38	7	109140	Δ
L109.0815.5.7	1,5	1,75	0,9	3,8	6,7	5,1	30	48	7	109140	Δ

P	●
M	●
K	●
N	●
S	●
H	-

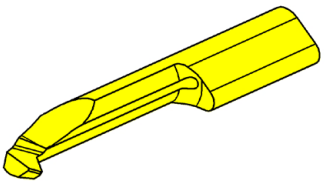
Schneidplatte
Insert

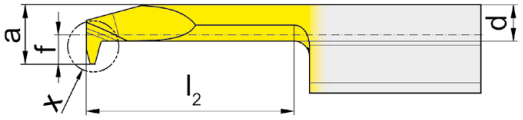
109

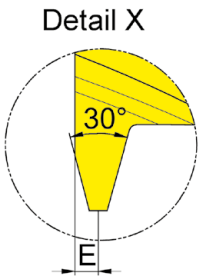
Ø ≥ 6 mm











R = rechts wie gezeichnet, nur Rechtsgewinde herstellbar
R = right hand version shown, only right-hand thread can be produced

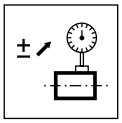
HM-Sorten
Carbide grades

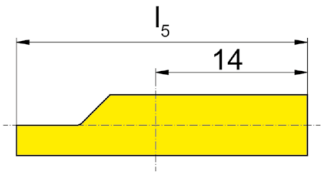
▲ ab Lager
on stock

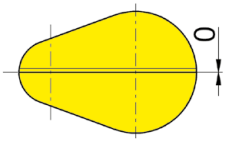
Δ 4 Wochen
4 weeks

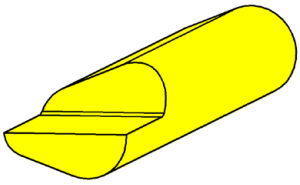
Bestellnummer Part number	P	E	f	a	d	l_2	l_5	D_{min}	HIS	TH35
R109.0915.3.6	1,5	0,6	2,8	5,7	3,5	20	38	6	109140	▲
R109.1220.3.6	2	0,8	2,8	5,7	3,5	20	38	6	109140	▲
R109.1220.3.7	2	0,8	3,8	6,7	4,8	20	38	7	109140	▲
R109.1220.5.7	2	0,8	3,8	6,7	4,8	30	48	7	109140	▲
R109.1730.3.7	3	1,2	3,8	6,7	4,3	20	38	7	109140	▲

P	●
M	●
K	●
N	●
S	●
H	-











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

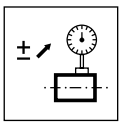
Δ 4 Wochen
4 weeks

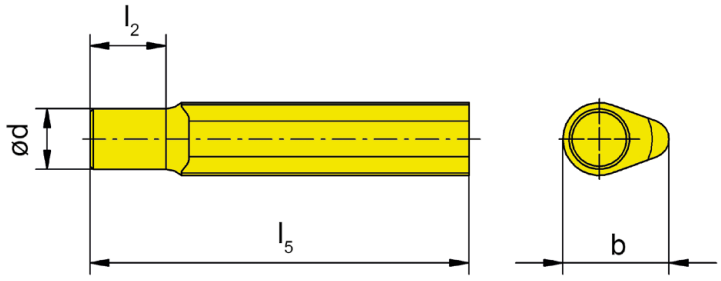
Bestellnummer Part number	l_5	HIS		MG12
R109.LEHR.H.01	28	109140		Δ
L109.LEHR.H.01	28	109140		Δ
			P	**o**
			M	**-**
			K	**-**
			N	**-**
			S	**-**
			H	**-**

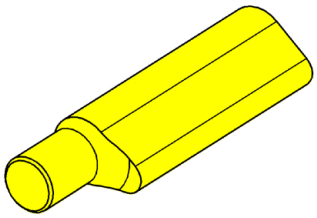
Platte zum Einrichten des Werkzeugs
Insert for tool set up

Platte
Insert

109





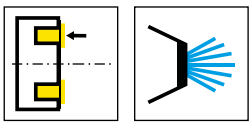


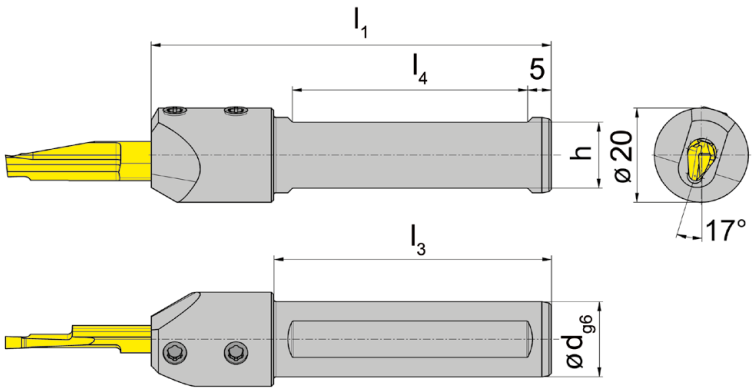
Bestellnummer Part number	d	b	l_2	l_5	HIS
109.LEHR.D.01	4,5	8,5	5	25	109140

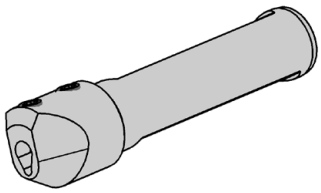
Platte zum Einrichten des Werkzeugs
Insert for tool set up

Klemmhalter
Toolholder

B109







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

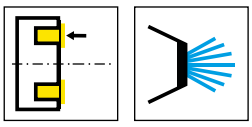
Bestellnummer Part number	d	l_1	l_3	h	l_4	HWS
RB109.0016.14.2	16	85	59	14	50	109240
LB109.0016.14.2	16	85	59	14	50	109240

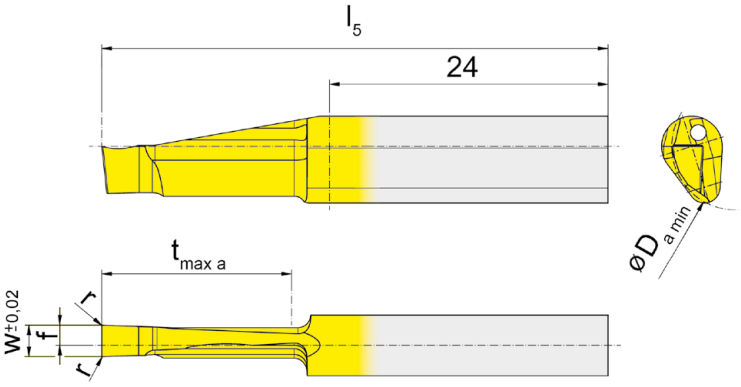
Ersatzteile
Spare Parts

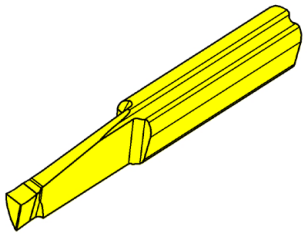
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB109.0016.14.2	**6.075T15P**	**T15PQ**

Schneidplatte
Insert

A109







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	r	f	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	T125
RA109.1520.3.2	2	0,1	1	48	20	15	109240	▲
RA109.1525.3.2	2,5	0,1	1,2	48	20	15	109240	▲
RA109.1530.3.2	3	0,1	1,5	48	20	15	109240	▲
LA109.1520.3.2	2	0,1	1	48	20	15	109240	Δ
LA109.1525.3.2	2,5	0,1	1,2	48	20	15	109240	Δ
LA109.1530.3.2	3	0,1	1,5	48	20	15	109240	▲

Axialstechen ins Volle bei voller Stechtiefe nur bei Da min 15 - 40 mm möglich!
Face grooving with full width of the full depth only possible between Da min 15 - 40 mm!

P	●
M	●
K	●
N	●
S	●
H	-

110

C

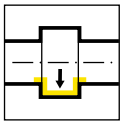


Klemmhalter und Schneidplatten

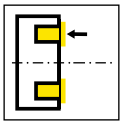
Toolholder and Inserts

C

Klemmhalter
Toolholder
B110/B110TS/B110C/
VDI/WFB.110

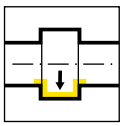


Seite/Page
170-175, 177



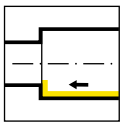
Seite/Page
186

Einstellbare Halter
Adjustable holder
N

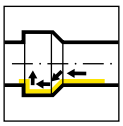


Seite/Page
176

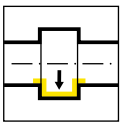
Schneidplatte
Insert
110/A110



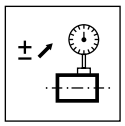
Seite/Page
178, 182



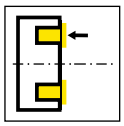
Seite/Page
179



Seite/Page
180-181

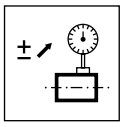


Seite/Page
183



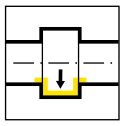
Seite/Page
187-188

Platte
Insert
110



Seite/Page
184

Grundabmessungen
Basic sizes

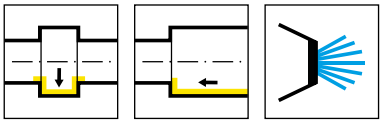


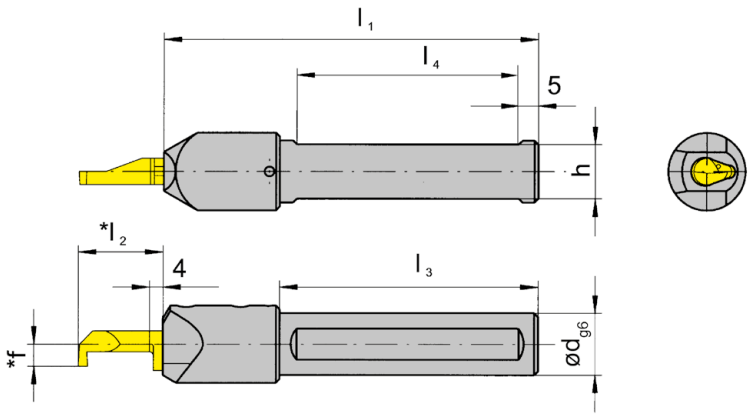
Seite/Page
185

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

Klemmhalter
Toolholder

B110





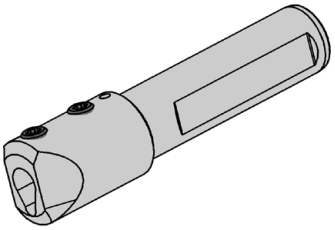


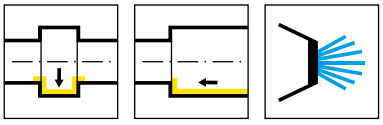
Abbildung = rechtsschneidend
Picture = right hand cutting version

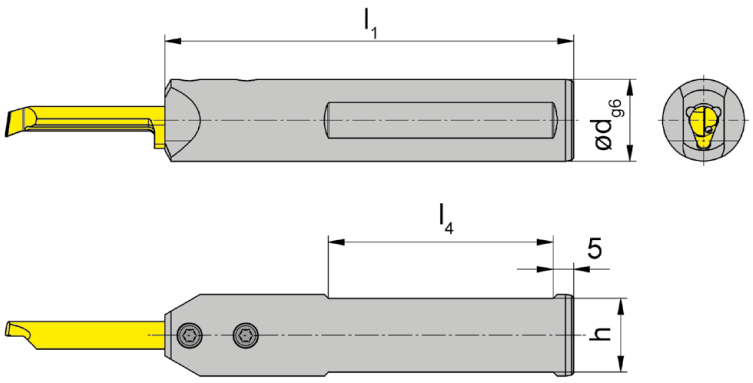
Bestellnummer Part number	d	l_1	l_3	h	l_4	HWS
B110.0016.02	16	100	70	14	55	110260
B110.0020.02	20	100	-	18	55	110260
B110.0022.02	22	100	-	20	55	110260
B110.0025.02	25	100	-	23	55	110260

f, l2 siehe Schneidplatte Typ 110
f, l2 see inserts type 110

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B110...	**6.075T15P**	**T15PQ**





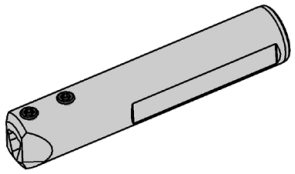


Abbildung = rechtsschneidend
Picture = right hand cutting version

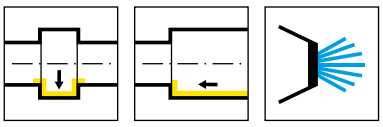
Bestellnummer Part number	d	l_1	h	l_4	HWS
B110.0020.K.02	20	100	18	55	110260

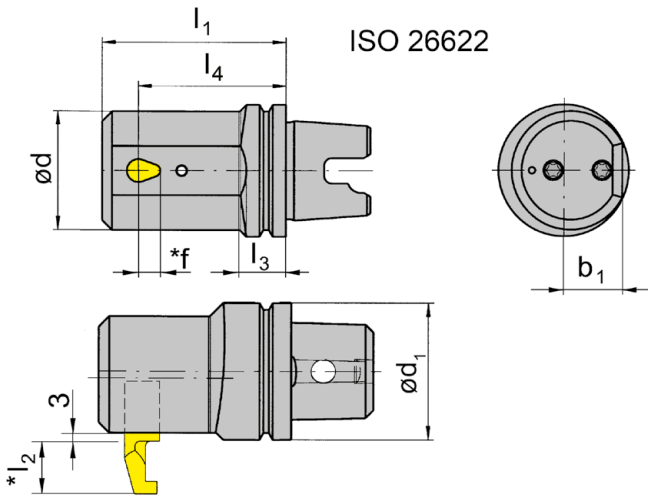
Ersatzteile
Spare Parts

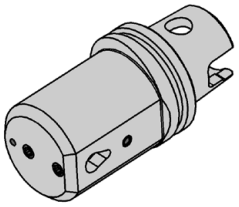
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B110.0020.K.02	**6.075T15P**	**T15PQ**

Klemmhalter
Toolholder

B110TS







R = rechts wie gezeichnet
R = right hand version shown

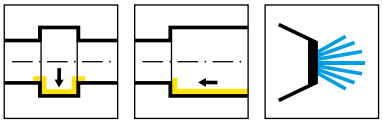
Bestellnummer Part number	d_1	l_3	d	l_1	b_1	l_4	Maschinentyp Machine type	HWS
RB110.TS40.2.2.02	40	14	36	56	18	45	INDEX MS32	110260

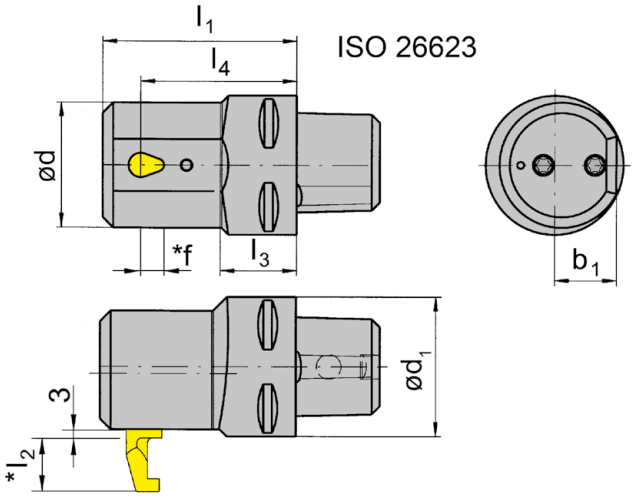
f, l2 siehe Schneidplatte Typ 110
f, l2 see inserts type 110

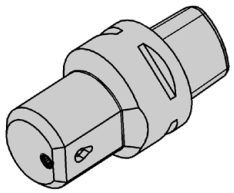
für INDEX Mehrspindler
for INDEX Multi spindle machines

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
RB110.TS40.2.2.02	**6.075T15P**	**T15PQ**







R = rechts wie gezeichnet
R = right hand version shown

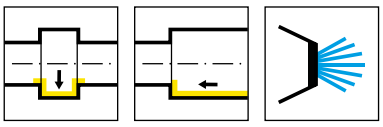
Bestellnummer Part number	d_1	l_3	d	l_1	b_1	l_4	Maschinentyp Machine type	HWS
RB110.00C3.2.2.02	32	15	36	56	18	45	INDEX MS32	110260
RB110.00C4.2.2.02	40	22	36	56	18	45	INDEX MS52	110260

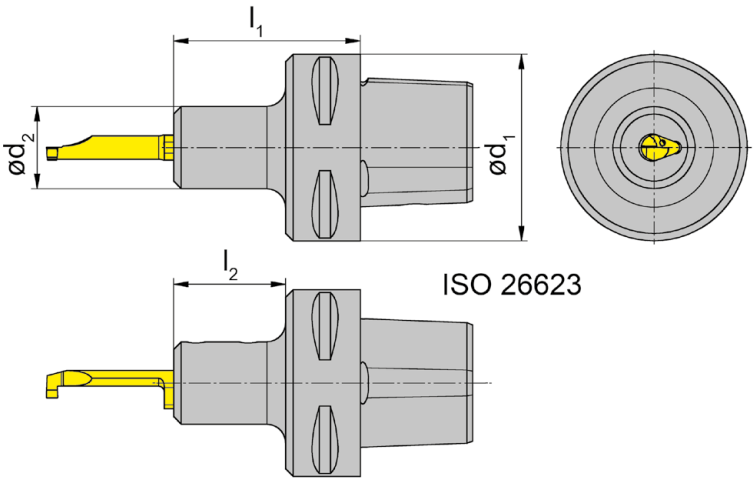
f, l2 siehe Schneidplatte Typ 110
f, l2 see inserts type 110

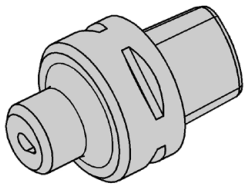
für INDEX Mehrspindler
for INDEX Multi spindle machines

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
RB110...	**6.075T15P**	**T15PQ**







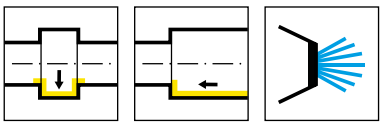
R = rechts wie gezeichnet
R = right hand version shown

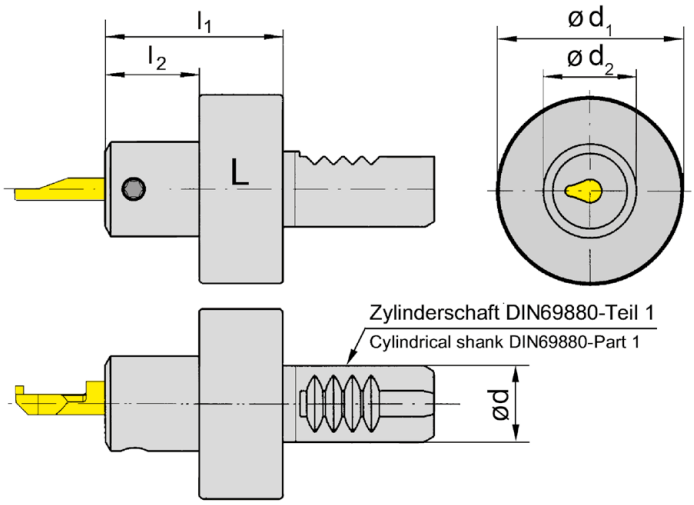
L = links spiegelbildlich
L = left hand version

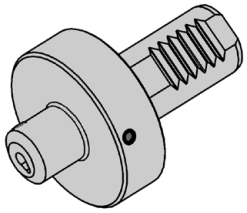
Bestellnummer Part number	d_1	d_2	l_1	l_2	HWS
RB110.00C3.22.1.02	32	22	45	30	110260
RB110.00C4.22.1.02	40	22	50	30	110260
RB110.00C5.22.1.02	50	22	50	30	110260
RB110.00C6.22.1.02	63	22	52	30	110260
LB110.00C3.22.1.02	32	22	45	30	110260
LB110.00C4.22.1.02	40	22	50	30	110260
LB110.00C5.22.1.02	50	22	50	30	110260
LB110.00C6.22.1.02	63	22	52	30	110260

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB110...	**6.075T15P**	**T15PQ**







L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

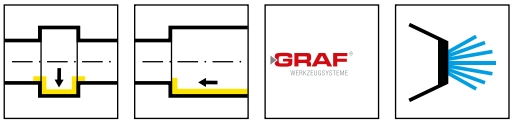
Bestellnummer Part number	d	l_1	l_2	d_2	d_1	HWS
VDI16.L110.30.02	16	48	30	22	40	110260
VDI16.R110.30.02	16	48	30	22	40	110260
VDI20.R110.30.02	20	48	30	22	50	110260
VDI25.L110.30.02	25	48	30	22	58	110260
VDI25.R110.30.02	25	48	30	22	58	110260
VDI30.L110.30.02	30	48	30	22	68	110260
VDI30.R110.30.02	30	48	30	22	68	110260
VDI40.L110.30.02	40	48	30	22	83	110260
VDI40.R110.30.02	40	48	30	22	83	110260

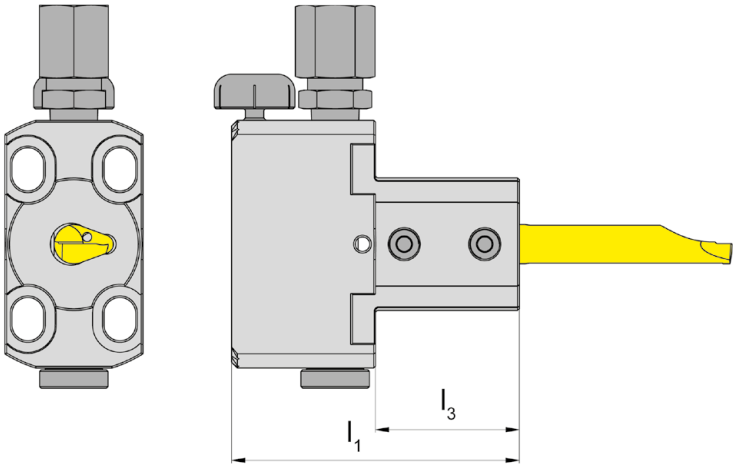
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
VDI16...	**6.075T15P**	**T15PQ**

Einstellbare Halter
Adjustable holder

N





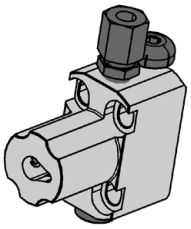


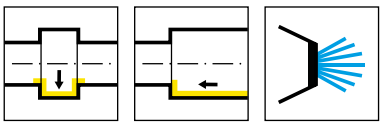
Abbildung = rechtsschneidend
Picture = right hand cutting version

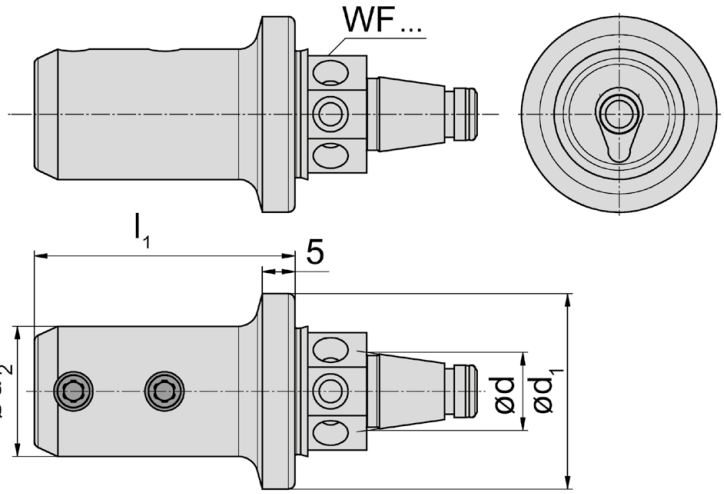
Bestellnummer Part number	l_1	l_3	HWS
N.79.IK	50	25	110260

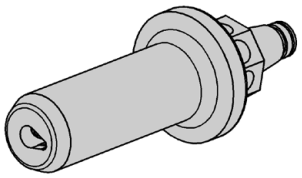
Das Kühlmittelrohr ist nicht im Lieferumfang enthalten - bitte separat bestellen!
Coolant tube is not included - separate order required!

Ersatzteile
Spare Parts

Einstellbare Halter Adjustable holder	**Spannschraube** Clamping Screw	**Kühlmittelanschluss** Coolant supply
N.79.IK	**6.075T15P**	**004.00.19**







Bestellnummer Part number	d_1	l_1	d	d_2	HWS	HMS
WFB.2H0.110	30	40	12	20	110260	WFB
WFB.3H0.110	50	40	20	20	110260	WFB

Ersatzteile
Spare Parts

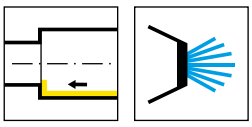
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
WFB...	**6.075T15P**	**T15PQ**

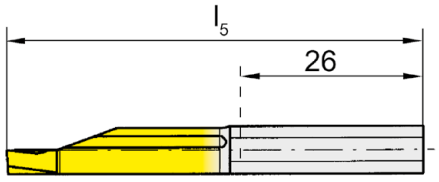
Schneidplatte
Insert

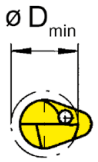
110

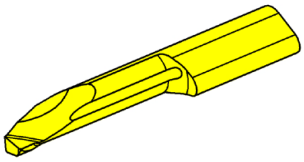
Ø ≥ 6 mm

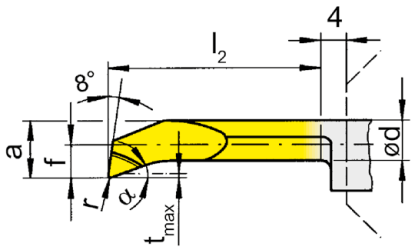
C











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

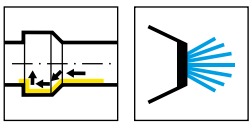
Δ 4 Wochen
4 weeks

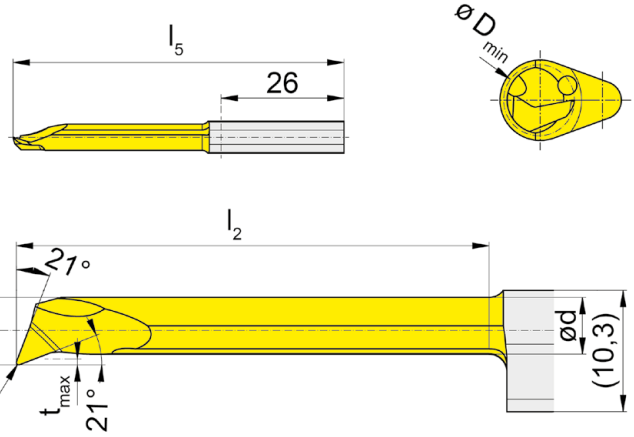
Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	α	HIS		EG35	TH35	TI25
R110.1829.7.6	0,2	2,9	5,7	4,8	40	70	0,5	6	21°	110260		▲	▲	▲
R110.1829.9.6	0,2	2,9	5,7	4,8	50	80	0,5	6	21°	110260		▲	▲	▲
R110.1829.9.8	0,2	4	7,4	6	50	80	0,5	8	21°	110260		▲	▲	▲
L110.1829.7.6	0,2	2,9	5,7	4,8	40	70	0,5	6	21°	110260		▲	▲	▲
L110.1829.9.6	0,2	2,9	5,7	4,8	50	80	0,5	6	21°	110260		▲	▲	▲
L110.1829.9.8	0,2	4	7,4	6	50	80	0,5	8	21°	110260		▲	▲	▲
											P	●	●	●
											M	●	●	●
											K	o	●	●
											N	-	●	●
											S	-	●	●
											H	-	-	-

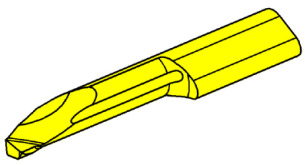
Schneidplatte
Insert

110

Ø ≥ 6 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	EG35
R110.2129.7.6	0,2	2,9	5,7	4,8	40	70	0,5	6	110260	Δ
R110.2129.9.6	0,2	2,9	5,7	4,8	50	80	0,5	6	110260	Δ
R110.2140.7.8	0,2	4	7,4	6	40	70	0,5	8	110260	Δ
R110.2140.9.8	0,2	4	7,4	6	50	80	0,5	8	110260	Δ
L110.2129.7.6	0,2	2,9	5,7	4,8	40	70	0,5	6	110260	Δ
L110.2129.9.6	0,2	2,9	5,7	4,8	50	80	0,5	6	110260	Δ
L110.2140.7.8	0,2	4	7,4	6	40	70	0,5	8	110260	Δ
L110.2140.9.8	0,2	4	7,4	6	50	80	0,5	8	110260	Δ

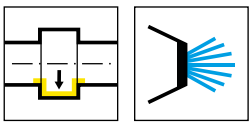
P	●
M	●
K	o
N	-
S	-
H	-

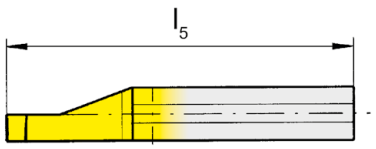
Schneidplatte
Insert

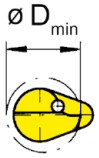
110

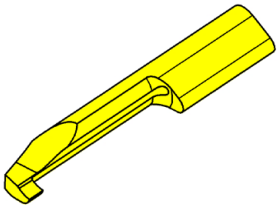
Ø ≥ 8 mm

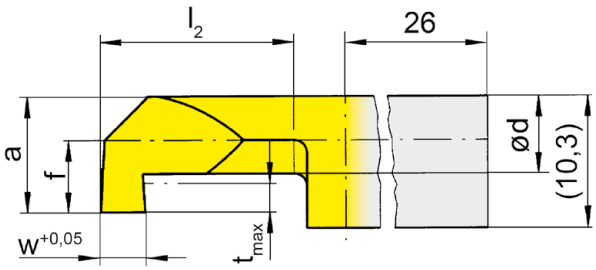
C











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

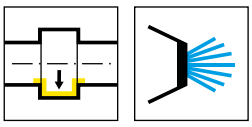
Bestellnummer Part number	w	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS	EG35	TI25	TN35
R110.0100.5.8	1	4	7,4	4,2	30	60	2,8	8	110260	▲		▲
R110.0200.5.8	2	4	7,4	4,2	30	60	2,8	8	110260	▲	Δ	▲
R110.0250.5.8	2,5	4	7,4	4,2	30	60	2,8	8	110260	▲	Δ	▲
R110.0100.7.8	1	4	7,4	4,2	40	70	2,8	8	110260	▲		▲
R110.0200.7.8	2	4	7,4	4,2	40	70	2,8	8	110260	▲		▲
R110.0250.7.8	2,5	4	7,4	4,2	40	70	2,8	8	110260	▲		▲
R110.0100.5.0	1	6	9,4	5	30	60	4	10	110260	▲		▲
R110.0200.5.0	2	6	9,4	5	30	60	4	10	110260	▲	Δ	▲
R110.0300.5.0	3	6	9,4	5	30	60	4	10	110260	▲	Δ	▲
R110.0100.9.0	1	6	9,4	5	50	80	4	10	110260	Δ		▲
R110.0200.9.0	2	6	9,4	5	50	80	4	10	110260	▲		▲
R110.0300.9.0	3	6	9,4	5	50	80	4	10	110260	▲		▲
L110.0100.5.8	1	4	7,4	4,2	30	60	2,8	8	110260			▲
L110.0200.5.8	2	4	7,4	4,2	30	60	2,8	8	110260	▲		▲
L110.0250.5.8	2,5	4	7,4	4,2	30	60	2,8	8	110260	▲		▲
L110.0100.7.8	1	4	7,4	4,2	40	70	2,8	8	110260	Δ		▲
L110.0200.7.8	2	4	7,4	4,2	40	70	2,8	8	110260	▲		▲
L110.0250.7.8	2,5	4	7,4	4,2	40	70	2,8	8	110260	Δ		▲
L110.0100.5.0	1	6	9,4	5	30	60	4	10	110260	▲		▲
L110.0200.5.0	2	6	9,4	5	30	60	4	10	110260	▲		▲
L110.0300.5.0	3	6	9,4	5	30	60	4	10	110260	▲		▲
L110.0100.9.0	1	6	9,4	5	50	80	4	10	110260	Δ		Δ
L110.0200.9.0	2	6	9,4	5	50	80	4	10	110260	Δ		▲
L110.0300.9.0	3	6	9,4	5	50	80	4	10	110260	Δ		Δ

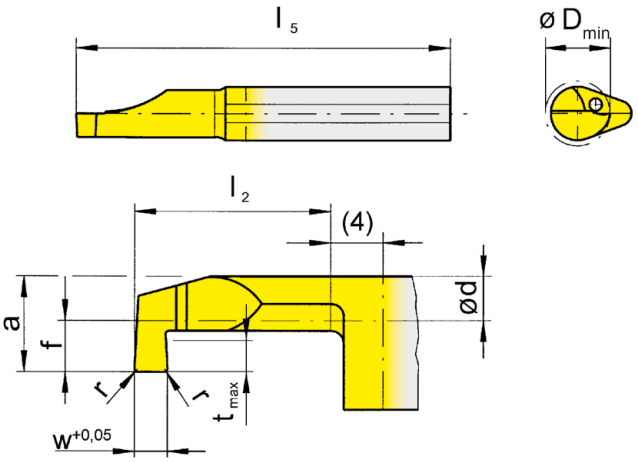
P	●	●	●
M	●	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

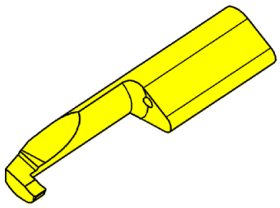
Schneidplatte
Insert

110

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

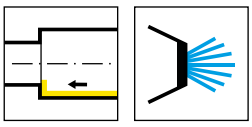
Δ 4 Wochen
4 weeks

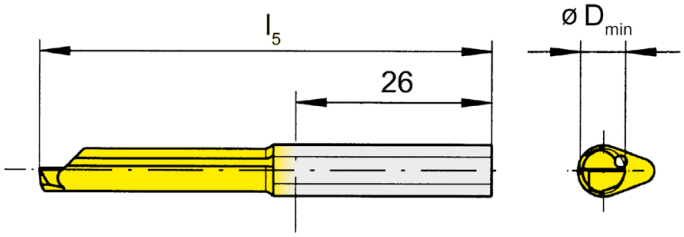
Bestellnummer Part number	w	r	f	a	d	l_2	l_5	t_{max}	D_{min}	HIS		EG35	TN35
R110.0200.02.3.8	2	0,2	4	7,4	4,2	20	50	2,8	8	110260		▲	▲
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

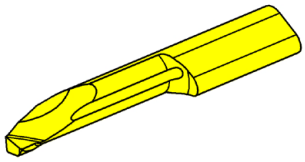
Schneidplatte
Insert

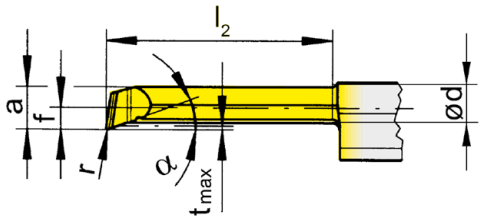
110

Ø ≥ 6 mm









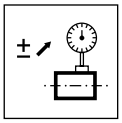
R = rechts wie gezeichnet
R = right hand version shown

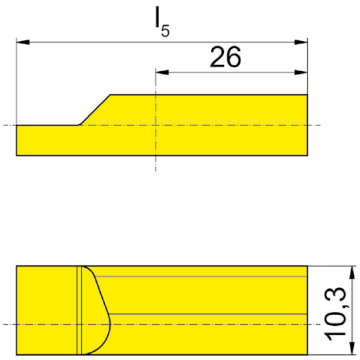
HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	r	f	a	d	l_2	l_5	t_{max}	D_{min}	α	HIS		EG35	T125
R110.1829.9.H6	0,2	2,9	5,7	4,8	50	80	0,5	6	20°	110260		▲	▲
R110.1829.9.H8	0,2	4	7,4	6	50	80	0,5	8	20°	110260		▲	▲
											P	●	●
											M	●	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-



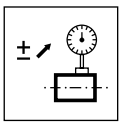


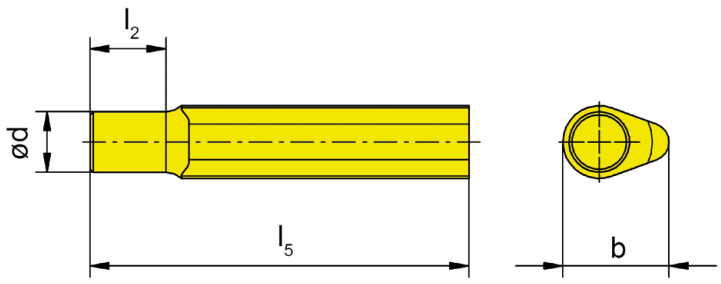
R = rechts wie gezeichnet
R = right hand version shown

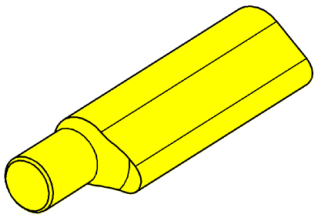
L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	l_5	HIS
R110.LEHR.H02	40	110140
L110.LEHR.H02	40	110140

Platte zum Einrichten des Werkzeugs
Insert for tool set up



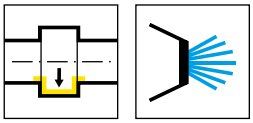


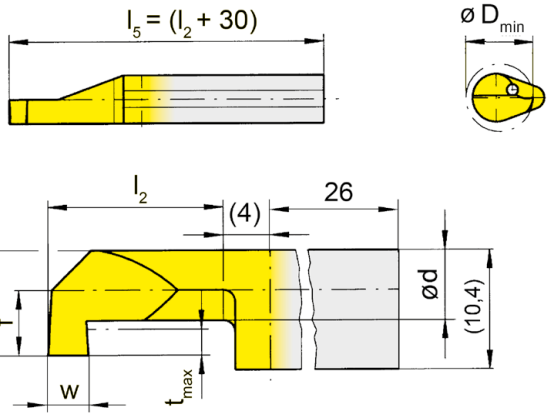


Bestellnummer Part number	d	b	l_2	l_5	HIS
110.LEHR.D.01	5	10,3	5	25	110140

Platte zum Einrichten des Werkzeugs
Insert for tool set up

Grundabmessungen
Basic sizes





Bestellnummer Part number	f	a	d	t_{max}	D_{min}	w	l_2	Längencode Code		MG12	TN35	TI25	TH35
110...8	4	7,4	4,2	2,8	8	0,5-3,0	10 15 20 25 30	1 2 3 4 5		Auf Anfrage Upon Request			
110...9	5	8,4	4,8	3,5	9		35	6					
110...0	6	9,4	5,2	4,0	10		40	7					

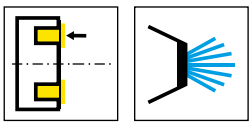
Bestellbeispiel:
Ordering example:

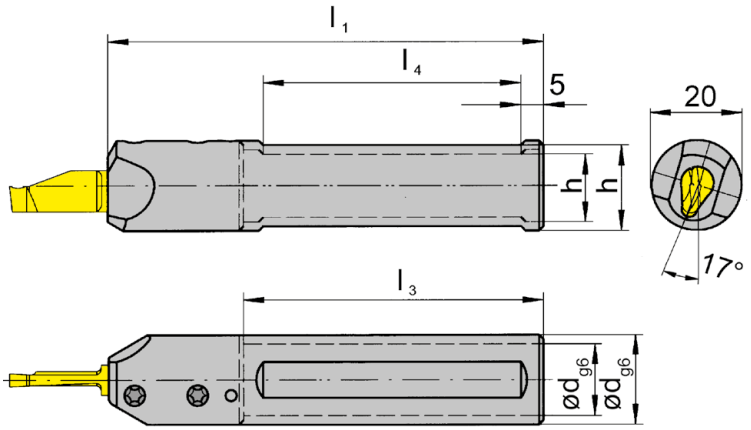
R110.0160.3.9 $^{+0,05}$ **r 0,2 (HM-Sorte / Carbide grade)**

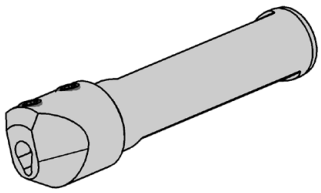
- Ausführung / Version
- Typ / type
- Schneidbreite w / width of groove w
- l_2 (Längencode / Code)
- Ø D_{min}
- Toleranz w / Tolerance w
- Eckenradius / Corner radius

Klemmhalter
Toolholder

B110







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

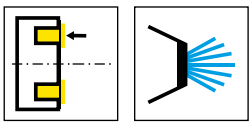
Bestellnummer Part number	d	l_1	l_3	h	l_4	HWS
RB110.0016.16.2	16	100	70	14	55	110260
RB110.0020.16.2	20	100	-	18	55	110260
LB110.0016.16.2	16	100	70	14	55	110260
LB110.0020.16.2	20	100	-	18	55	110260

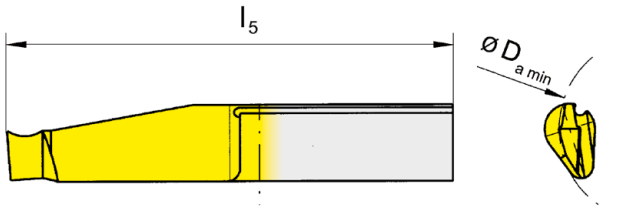
Ersatzteile
Spare Parts

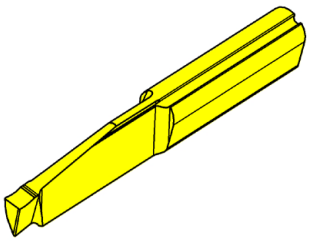
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB110...	**6.075T15P**	**T15PQ**

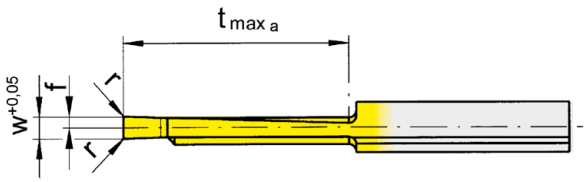
Schneidplatte
Insert

A110









L = links wie gezeichnet
L = left hand version shown

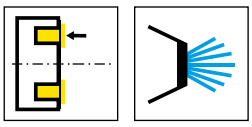
R = rechts spiegelbildlich
R = right hand version

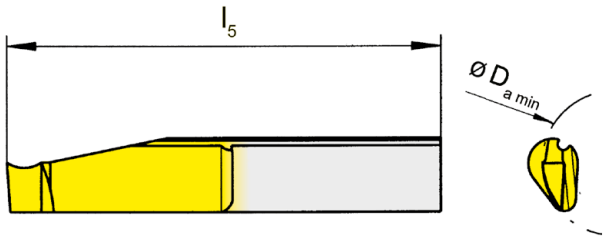
▲ ab Lager
on stock

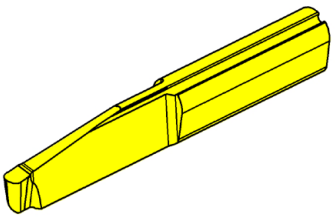
HM-Sorten
Carbide grades

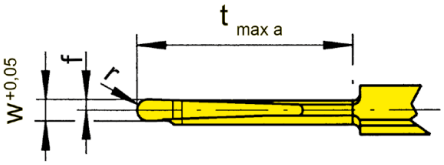
Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	r	f	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS	EG35	TH35	TI25	TN35
RA110.2030.3.0	3	0,2	1,5	50	20	20	110260	▲	▲	▲	▲
RA110.2030.5.0	3	0,2	1,5	60	30	20	110260	▲	▲	▲	▲
RA110.5030.3.0	3	0,2	1,5	50	20	50	110260	▲		▲	
RA110.5030.5.0	3	0,2	1,5	60	30	50	110260	▲		▲	
LA110.2030.3.0	3	0,2	1,5	50	20	20	110260	▲	▲	▲	▲
LA110.2030.5.0	3	0,2	1,5	60	30	20	110260	▲	▲	▲	▲
LA110.5030.3.0	3	0,2	1,5	50	20	50	110260	▲		▲	
LA110.5030.5.0	3	0,2	1,5	60	30	50	110260	▲		▲	
							P	●	●	●	●
							M	●	●	●	●
							K	o	●	●	●
							N	-	●	●	●
							S	-	●	●	●
							H	-	-	-	-









L = links wie gezeichnet
L = left hand version shown

R = rechts spiegelbildlich
R = right hand version

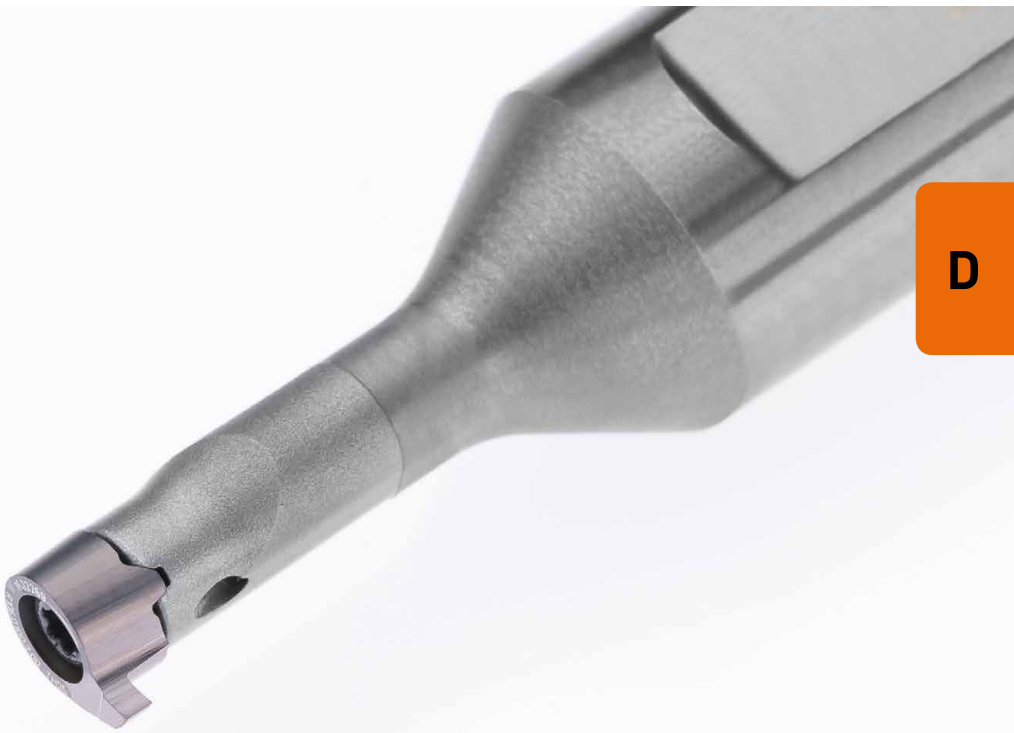
▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	r	f	l_5	$t_{max\ a}$	$D_{a\ min}$	HIS		EG35	TN35
RA110.2030.15.5.0	3	1,5	1,5	60	30	20	110260		▲	▲
LA110.2030.15.5.0	3	1,5	1,5	60	30	20	110260		▲	▲
								P	●	●
								M	●	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

106



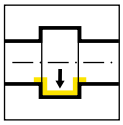
D

Klemmhalter und Schneidplatten

Toolholder and Inserts

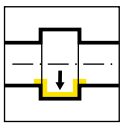
D

Klemmhalter
Toolholder
B106

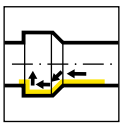


Seite/Page
192

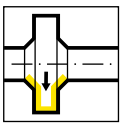
Schneidplatte
Insert
106



Seite/Page
193



Seite/Page
194



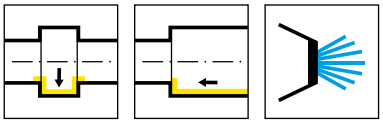
Seite/Page
195

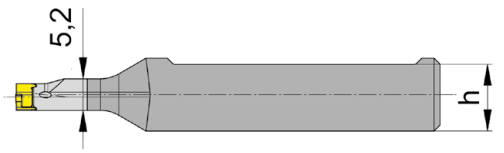
Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

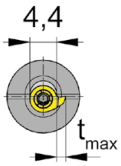
D

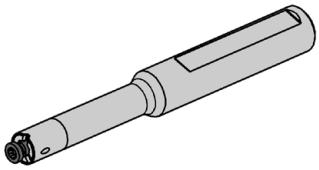
Klemmhalter
Toolholder

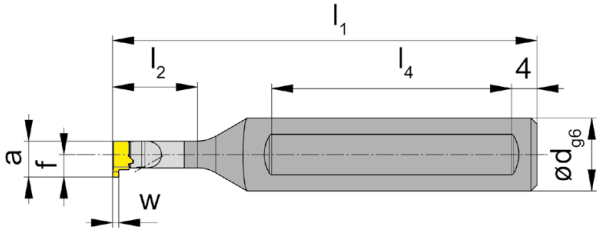
B106











R = rechts wie gezeichnet
R = right hand version shown

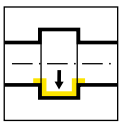
L = links spiegelbildlich
L = left hand version

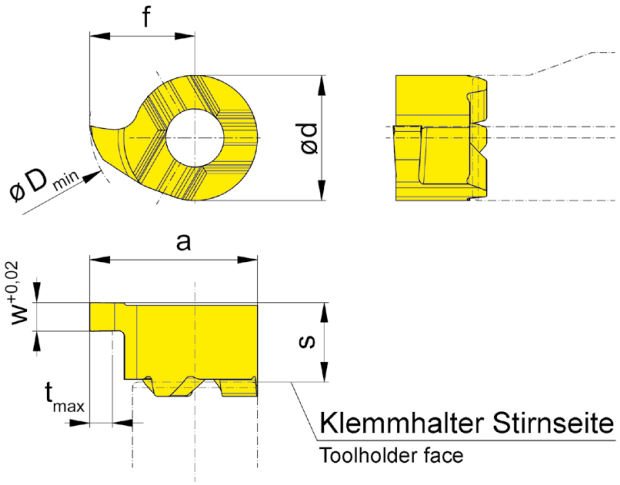
Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB106.0012.01	12	70	14	11	40	304044R
RB106.0012.02	12	80	20	11	40	304044R
RB106.0012.03	12	90	26	11	45	304044R
LB106.0012.01	12	70	14	11	40	304044L
LB106.0012.02	12	80	20	11	40	304044L
LB106.0012.03	12	90	26	11	45	304044L

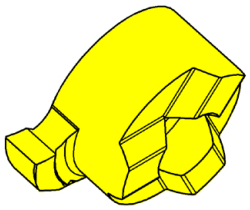
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB106...	**1.8.4T6EP**	**T6PL**







D

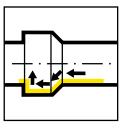
R = rechts wie gezeichnet
R = right hand version shown

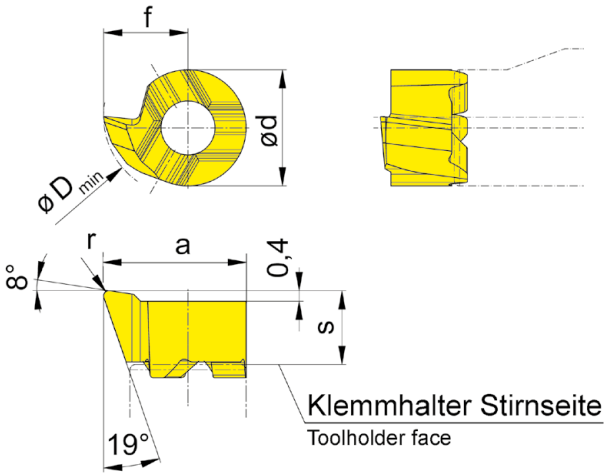
L = links spiegelbildlich
L = left hand version

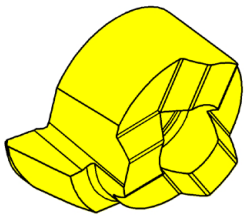
▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	d	t_{max}	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
R106.0070.2.00	0,74	2,8	3,7	5,9	4,4	0,8	6,5	304044R	▲	▲
R106.0100.2.00	1	2,8	3,7	5,9	4,4	0,8	6,5	304044R	Δ	▲
R106.0150.2.00	1,5	2,8	3,7	5,9	4,4	0,8	6,5	304044R	Δ	▲
L106.0070.2.00	0,74	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	
L106.0100.2.00	1	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	
L106.0150.2.00	1,5	2,8	3,7	5,9	4,4	0,8	6,5	304044L	Δ	Δ
									P ●	●
									M o	●
									K o	●
									N -	●
									S -	●
									H -	-







D

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

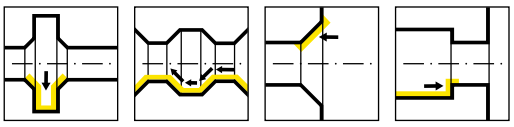
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	HM-Sorten Carbide grades EG55	 TH35
R106.1831.1.005	2,8	3,2	5,4	0,05	4,4	6	304044R	▲	▲
R106.1831.1.02	2,8	3,2	5,4	0,2	4,4	6	304044R	▲	▲
R106.1831.1.04	2,8	3,2	5,4	0,4	4,4	6	304044R	▲	▲
L106.1831.1.005	2,8	3,2	5,4	0,05	4,4	6	304044L	Δ	Δ
L106.1831.1.02	2,8	3,2	5,4	0,2	4,4	6	304044L	Δ	▲
L106.1831.1.04	2,8	3,2	5,4	0,4	4,4	6	304044L		▲

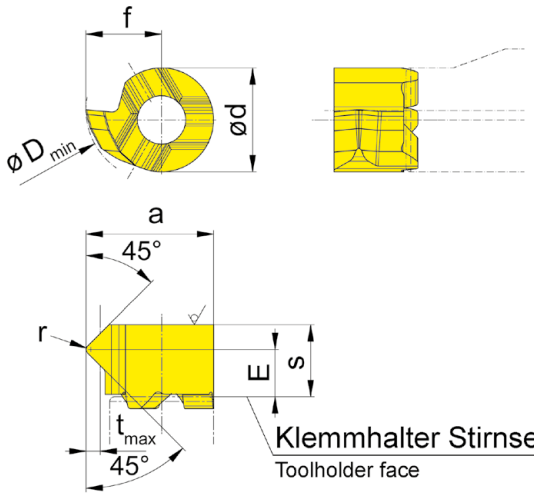
P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

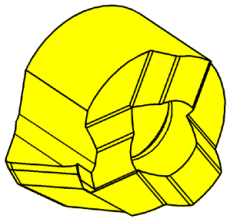
Schneidplatte
Insert

106

Ø ≥ 6 mm







D

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

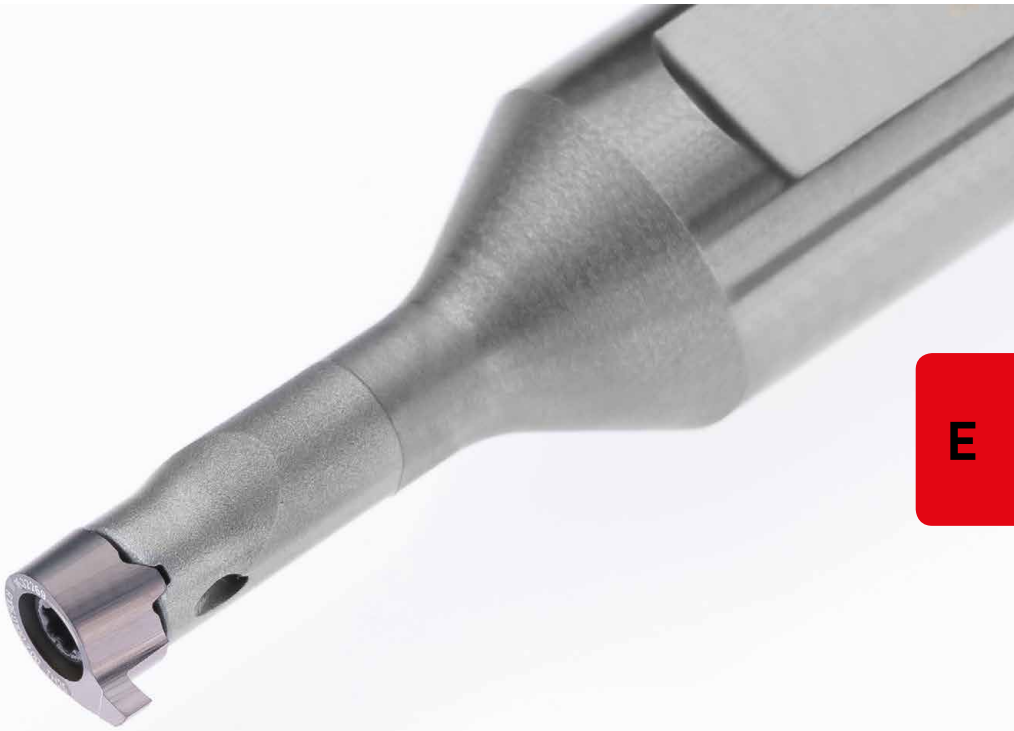
▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	E	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
R106.4545.1.02	2	3,05	3,2	5,4	0,2	4,4	0,6	6	304044R		▲	▲
L106.4545.1.02	2	3,05	3,2	5,4	0,2	4,4	0,6	6	304044L		Δ	
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

107

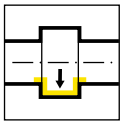


E

Klemmhalter und Schneidplatten

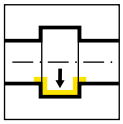
Toolholder and Inserts

Klemmhalter
Toolholder
B107

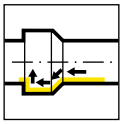


Seite/Page
200

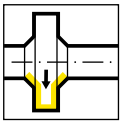
Schneidplatte
Insert
107



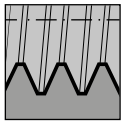
Seite/Page
201-202



Seite/Page
203



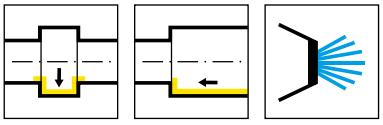
Seite/Page
204

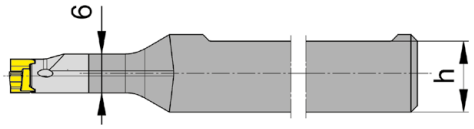


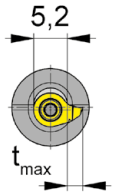
Seite/Page
205

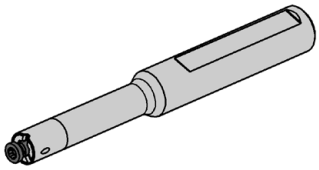
Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

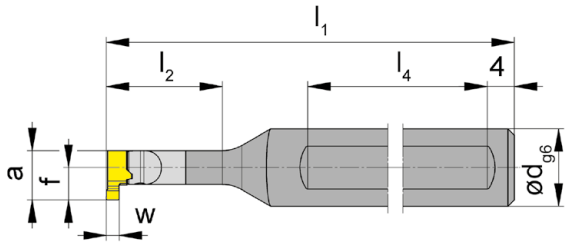
E











E

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB107.0012.01	12	80	18	11	45	107052R
RB107.0012.02	12	90	26	11	45	107052R
RB107.0012.03	12	100	36	11	45	107052R
LB107.0012.01	12	80	18	11	45	107052L
LB107.0012.02	12	90	26	11	45	107052L
LB107.0012.03	12	100	36	11	45	107052L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

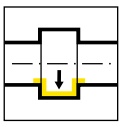
Ersatzteile
Spare Parts

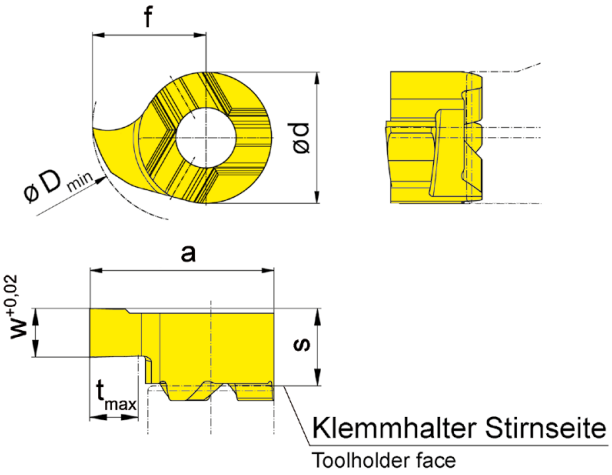
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB107...	**2.2.5T7EP**	**T7PL**

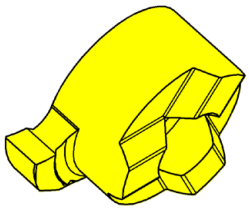
Schneidplatte
Insert

107

Ø ≥ 7 mm







E

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

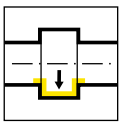
HM-Sorten
Carbide grades

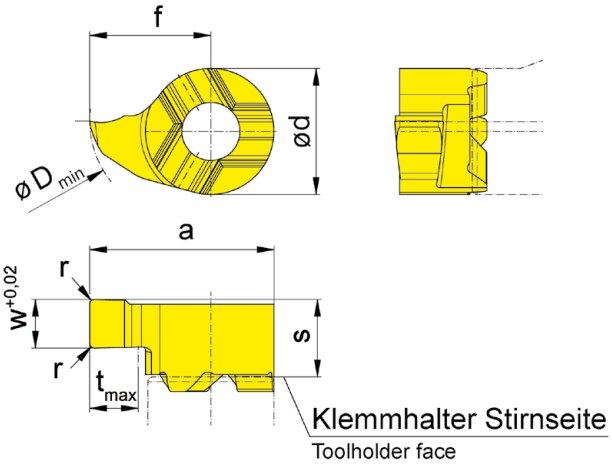
Bestellnummer Part number	w	s	f	a	d	t_{max}	D_{min}	HIS	EG55	TH35
R107.0100.1.00	1	3,3	4	6,6	5,2	1	7	107052R	▲	▲
R107.0150.1.00	1,5	3,3	4	6,6	5,2	1	7	107052R	▲	▲
L107.0100.1.00	1	3,3	4	6,6	5,2	1	7	107052L	Δ	Δ
L107.0150.1.00	1,5	3,3	4	6,6	5,2	1	7	107052L	Δ	▲
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

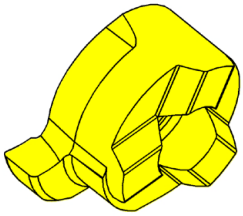
Schneidplatte
Insert

107

Ø ≥ 8 mm







E

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

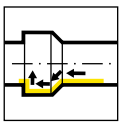
HM-Sorten
Carbide grades

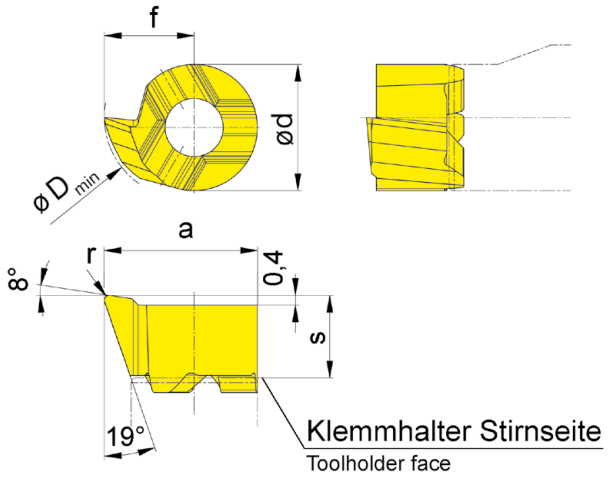
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
R107.0100.2.00	1	3,3	5	7,6	-	5,2	2	8	107052R	▲	▲
R107.0150.2.01	1,5	3,3	5	7,6	0,1	5,2	2	8	107052R	▲	▲
R107.0200.2.02	2	3,3	5	7,6	0,2	5,2	2	8	107052R	▲	▲
L107.0100.2.00	1	3,3	5	7,6	-	5,2	2	8	107052L	Δ	Δ
L107.0150.2.01	1,5	3,3	5	7,6	0,1	5,2	2	8	107052L	Δ	▲
L107.0200.2.02	2	3,3	5	7,6	0,2	5,2	2	8	107052L	Δ	▲
P										●	●
M										o	●
K										o	●
N										-	●
S										-	●
H										-	-

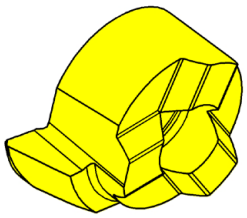
Schneidplatte
Insert

107

Ø ≥ 6,8 mm







E

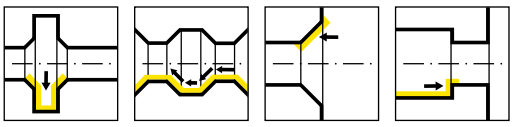
R = rechts wie gezeichnet
R = right hand version shown

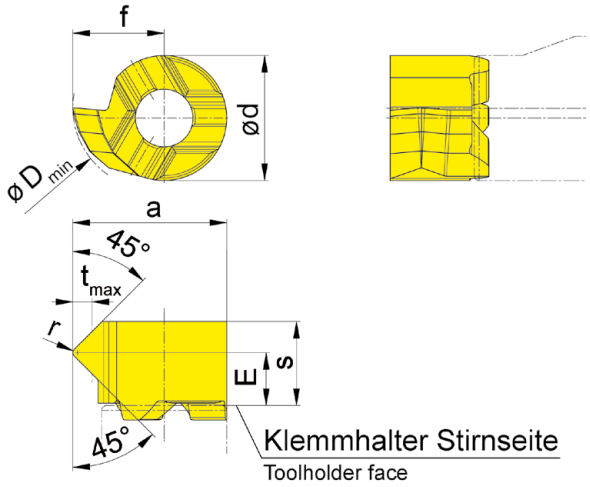
L = links spiegelbildlich
L = left hand version

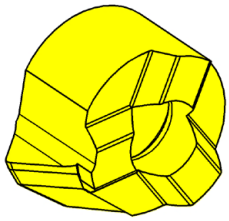
▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
R107.1837.02	3,3	3,7	6,3	0,2	5,2	6,8	107052R	▲	▲
R107.1837.04	3,3	3,7	6,3	0,4	5,2	6,8	107052R	▲	▲
L107.1837.02	3,3	3,7	6,3	0,2	5,2	6,8	107052L	▲	▲
L107.1837.04	3,3	3,7	6,3	0,4	5,2	6,8	107052L	▲	▲
								P ●	●
								M o	●
								K o	●
								N -	●
								S -	●
								H -	-







E

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

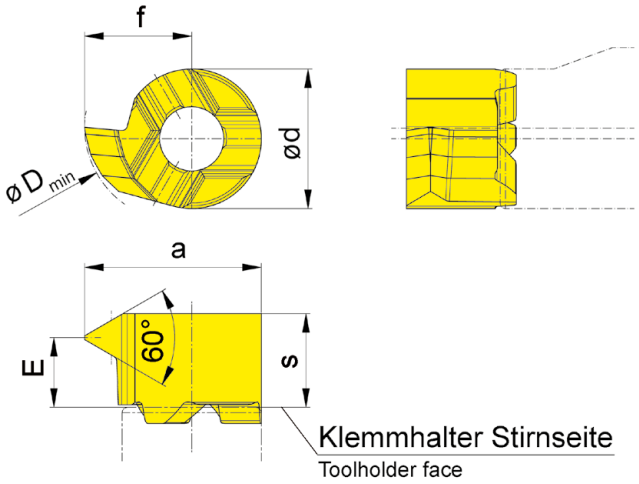
Bestellnummer Part number	E	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
R107.4545.1.02	2,2	3,5	3,8	6,4	0,2	5,2	0,8	6,8	107052R		▲	▲
L107.4545.1.02	2,2	3,5	3,8	6,4	0,2	5,2	0,8	6,8	107052L		Δ	Δ
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

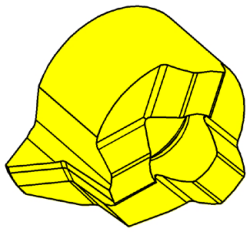
Schneidplatte
Insert

107

Ø ≥ 7 mm







E

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
R107.0205.1.01	0,5	0,75	3	4	6,6	5,2	3,5	7	107052R	Δ	▲
R107.0510.1.01	1	1,25	2,8	4	6,6	5,2	3,5	7	107052R	▲	▲
R107.0815.1.01	1,5	1,75	2,6	4	6,6	5,2	3,5	7	107052R	▲	▲
L107.0205.1.01	0,5	0,75	3	4	6,6	5,2	3,5	7	107052L	Δ	Δ
L107.0510.1.01	1	1,25	2,8	4	6,6	5,2	3,5	7	107052L	Δ	▲
L107.0815.1.01	1,5	1,75	2,6	4	6,6	5,2	3,5	7	107052L	Δ	Δ
										P ●	●
										M o	●
										K o	●
										N -	●
										S -	●
										H -	-

108

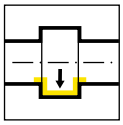


F

Klemmhalter und Schneidplatten

Toolholder and Inserts

Klemmhalter
Toolholder
B108

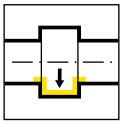


Seite/Page
210

Schneidplatte
Insert
108/S108



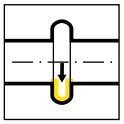
Seite/Page
211-212



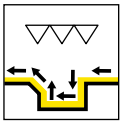
Seite/Page
213



Seite/Page
214



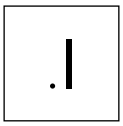
Seite/Page
215



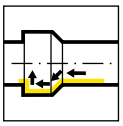
Seite/Page
216



Seite/Page
217



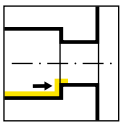
Seite/Page
218



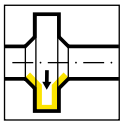
Seite/Page
219, 222



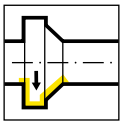
Seite/Page
220



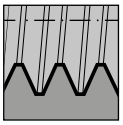
Seite/Page
221



Seite/Page
223



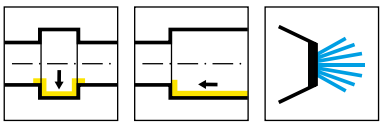
Seite/Page
224

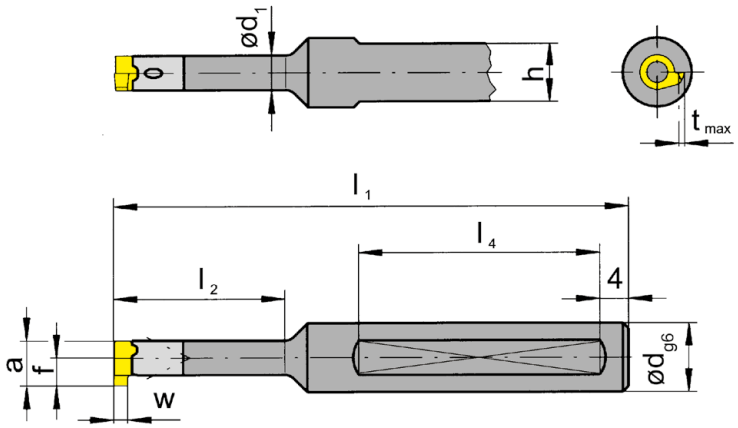


Seite/Page
225-229

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

F





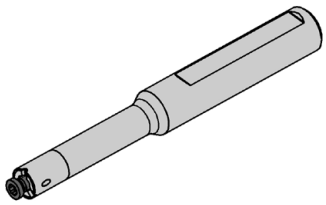


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	l_2	h	l_4	d_1	HWS
B108.0006.01A	6	65	-	-	-	-	306060R • 306060L
B108.0008.00	8	60	12,5	7	35	6	306060R • 306060L
B108.0008.01	8	70	21	7	40	6	306060R • 306060L
B108.0012.00	12	70	12,5	11	40	6	306060R • 306060L
B108.0012.01	12	80	21	11	45	6	306060R • 306060L
B108.0012.02	12	90	30	11	45	6	306060R • 306060L
B108.0012.03	12	100	42	11	45	6	306060R • 306060L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

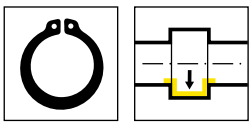
Ersatzteile
Spare Parts

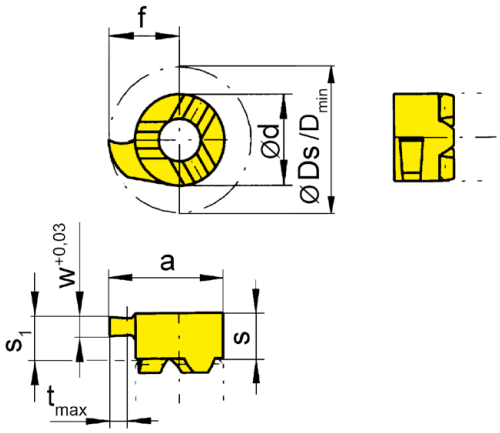
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B108...	**2.6.5T8EP**	**T8PL**

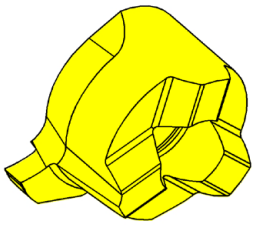
Schneidplatte
Insert

108

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	Nw	f	Ds	d	s	s_1	a	t_{max}	D_{min}	Z	HIS	EG55	TH35	TN35
R108.0070.00	0,74	0,7	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060R	▲	▲	▲
R108.0080.00	0,84	0,8	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060R	▲	▲	▲
R108.0090.00	0,94	0,9	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060R	▲	▲	▲
L108.0070.00	0,74	0,7	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060L	Δ	▲	▲
L108.0080.00	0,84	0,8	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060L	Δ	Δ	▲
L108.0090.00	0,94	0,9	4,8	9,6	6	3,6	3,2	7,8	1	8	1	306060L	Δ	▲	▲

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

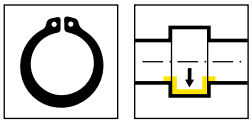
Zapfenausführung
not face cutting, limited depth of cut

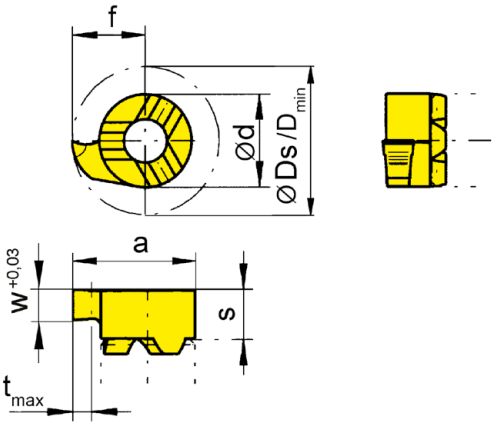
F

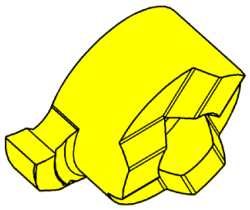
Schneidplatte
Insert

108

Ø ≥ 8 mm







F

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

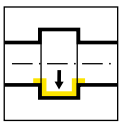
Bestellnummer Part number	w	Nw	s	f	Ds	a	d	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R108.0110.00	1,19	1,1	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲
R108.0160.00	1,69	1,6	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	Δ	▲	▲
R108.0130.00	1,39	1,3	3,2	4,8	9,6	7,8	6	1	8	1	306060R	▲	▲	▲	▲
L108.0110.00	1,19	1,1	3,2	4,8	9,6	7,8	6	1	8	1	306060L	▲	Δ	▲	▲
L108.0160.00	1,69	1,6	3,2	4,8	9,6	7,8	6	1	8	1	306060L		▲	Δ	▲
L108.0130.00	1,39	1,3	3,2	4,8	9,6	7,8	6	1	8	1	306060L			Δ	▲

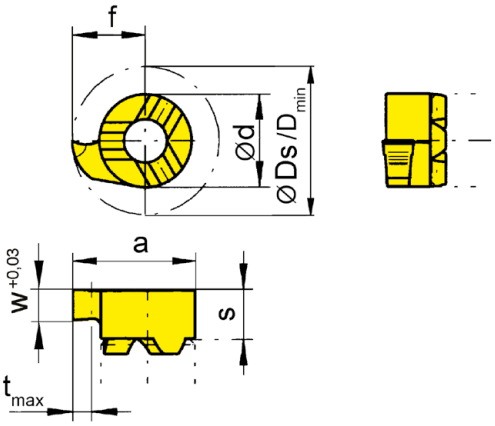
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

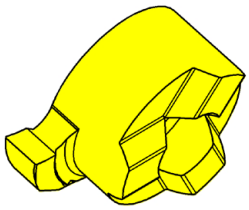
Schneidplatte
Insert

108

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

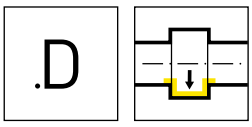
F

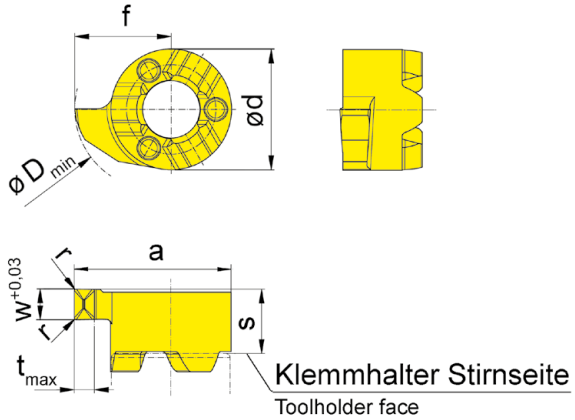
Bestellnummer Part number	w	s	f	Ds	a	d	t_{max}	D_{min}	Z	HIS		MG12	EG55	TH35	TN35
R108.0150.00	1,5	3,2	4,8	9,6	7,8	6	1	8	1	306060R		▲	▲	▲	▲
R108.0200.00	2	3,2	4,8	9,6	7,8	6	1	8	1	306060R		▲	▲	▲	▲
L108.0150.00	1,5	3,2	4,8	9,6	7,8	6	1	8	1	306060L		▲		Δ	▲
L108.0200.00	2	3,2	4,8	9,6	7,8	6	1	8	1	306060L		▲		▲	▲
											P	o	●	●	●
											M	-	o	●	●
											K	-	o	●	●
											N	-	-	●	●
											S	-	-	●	●
											H	-	-	-	-

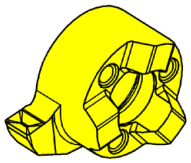
Schneidplatte
Insert

S108

Ø ≥ 8 mm







F

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

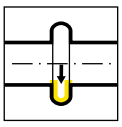
Δ 4 Wochen
4 weeks

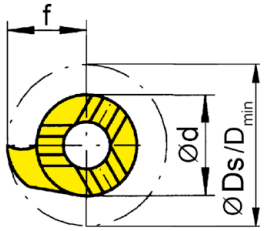
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
RS108.0100.D1	1	3,2	4,8	7,8	0,1	6	1	8	306060R		▲	▲
RS108.0150.D1	1,5	3,2	4,8	7,8	0,1	6	1	8	306060R		▲	▲
RS108.0200.D2	2	3,2	4,8	7,8	0,2	6	1	8	306060R		▲	▲
LS108.0100.D1	1	3,2	4,8	7,8	0,1	6	1	8	306060L		Δ	▲
LS108.0150.D1	1,5	3,2	4,8	7,8	0,1	6	1	8	306060L		Δ	Δ
LS108.0200.D2	2	3,2	4,8	7,8	0,2	6	1	8	306060L		Δ	▲
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

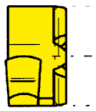
Schneidplatte
Insert

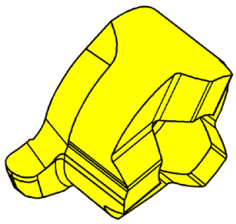
108

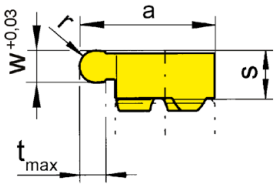
Ø ≥ 8 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

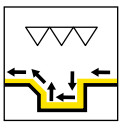
Bestellnummer Part number	w	s	f	Ds	a	r	d	t_{max}	D_{min}	Z	HIS		MG12	EG55	TH35	TI25	TN35
R108.0004.08	0,8	3,2	4,8	9,6	7,8	0,4	6	1	8	1	306060R		▲	▲	▲		▲
R108.0006.12	1,2	3,2	4,8	9,6	7,8	0,6	6	1	8	1	306060R		▲	▲	▲		▲
R108.0009.18	1,8	3,2	4,8	9,6	7,8	0,9	6	1	8	1	306060R		▲	▲	▲	▲	▲
L108.0004.08	0,8	3,2	4,8	9,6	7,8	0,4	6	1	8	1	306060L		Δ	▲	▲		▲
L108.0006.12	1,2	3,2	4,8	9,6	7,8	0,6	6	1	8	1	306060L		▲	▲	▲		▲
L108.0009.18	1,8	3,2	4,8	9,6	7,8	0,9	6	1	8	1	306060L		Δ		▲	Δ	▲
												P	o	●	●	●	●
												M	-	o	●	●	●
												K	-	o	●	●	●
												N	-	-	●	●	●
												S	-	-	●	●	●
												H	-	-	-	-	-

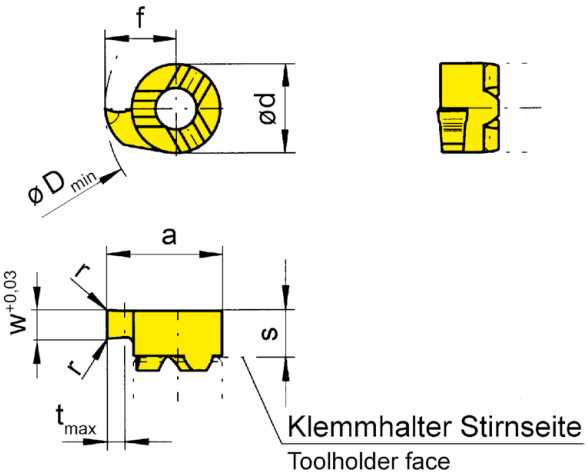
F

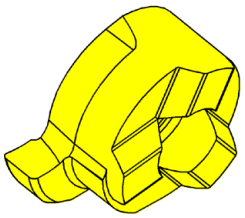
Schneidplatte
Insert

108

Ø ≥ 8 mm







F

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

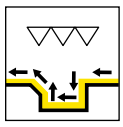
▲ ab Lager
on stock

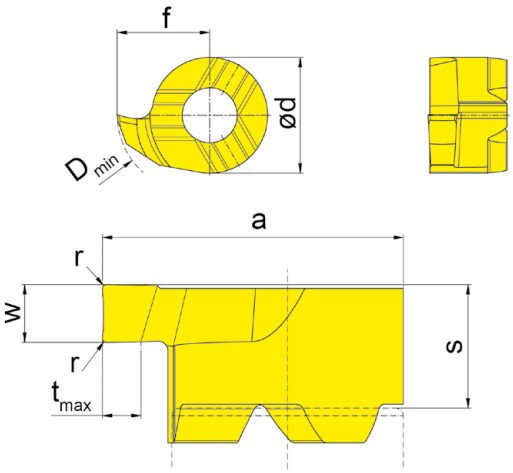
Δ 4 Wochen
4 weeks

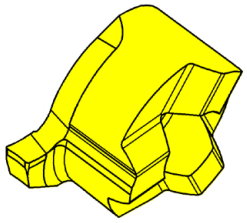
HM-Sorten
Carbide grades

Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		MG12	EG55	TH35	TI25	TN35
R108.0150.02	1,5	3,2	4,8	7,8	0,2	6	1	8	306060R		▲	▲	▲	▲	▲
L108.0150.02	1,5	3,2	4,8	7,8	0,2	6	1	8	306060L		▲	▲	▲	Δ	▲
										P	o	●	●	●	●
										M	-	o	●	●	●
										K	-	o	●	●	●
										N	-	-	●	●	●
										S	-	-	●	●	●
										H	-	-	-	-	-

.FB







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG35
R108.FB10.01	1	3,2	4,8	7,8	0,1	6	1	8	306060R	▲
R108.FB15.01	1,5	3,2	4,8	7,8	0,1	6	1	8	306060R	▲
L108.FB10.01	1	3,2	4,8	7,8	0,1	6	1	8	306060L	▲
L108.FB15.01	1,5	3,2	4,8	7,8	0,1	6	1	8	306060L	▲

P	●
M	●
K	o
N	-
S	-
H	-

Berechnung der kleinstmöglichen Nutbreite w_x
Calculation of the smallest possible width of groove w_x

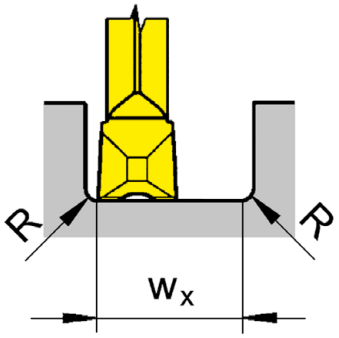
Beispiel R108.FB10.01
Example

w_x = 2 x Schneidbreite w - 2 x Eckenradius Schneidplatte R

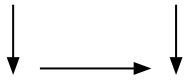
w_x = 2 x Width of insert w - 2 x Corner radius insert R

w_x = 2 x 1 mm - 2 x 0,1 mm

w_x = 1,8 mm



Bearbeitungsablauf
Processing flow

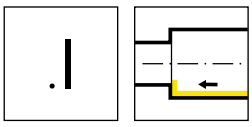


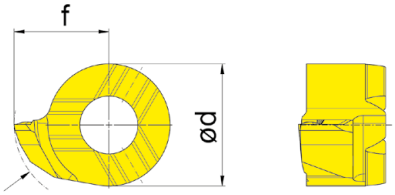
F

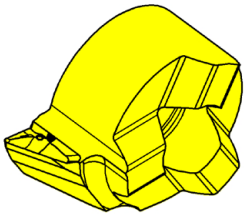
Schneidplatte
Insert

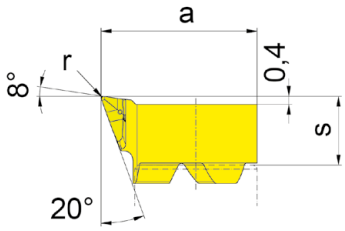
S108

Ø ≥ 7,8 mm









F

R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

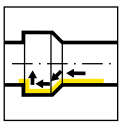
Δ 4 Wochen
4 weeks

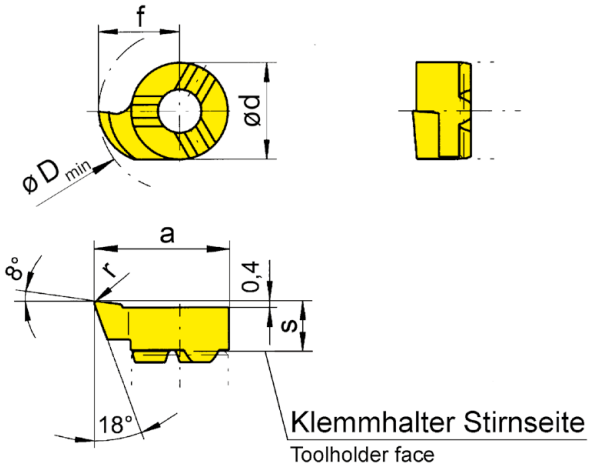
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG35	EG55	IG35
RS108.0820.I05	3,37	4,65	7,65	0,05	6	7,8	306060R		Δ		Δ
RS108.0820.I10	3,38	4,65	7,65	0,1	6	7,8	306060R		▲		▲
RS108.0820.I20	3,4	4,65	7,65	0,2	6	7,8	306060R			▲	▲
								P	●	●	-
								M	●	o	●
								K	o	o	-
								N	-	-	-
								S	-	-	●
								H	-	-	-

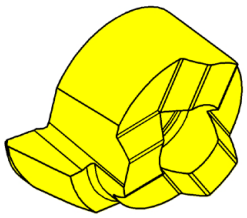
Schneidplatte
Insert

108

Ø ≥ 7,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		MG12	EG55	TF45	TH35	TI25	TN35
R108.1846.02	3,4	4,65	7,65	0,2	6	7,8	306060R		▲	▲	Δ	▲	▲	▲
L108.1846.02	3,4	4,65	7,65	0,2	6	7,8	306060L		▲	▲		▲	▲	▲
								P	o	●	●	●	●	●
								M	-	o	●	●	●	●
								K	-	o	●	●	●	●
								N	-	-	●	●	●	●
								S	-	-	●	●	●	●
								H	-	-	-	-	-	-

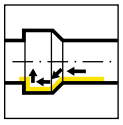
F

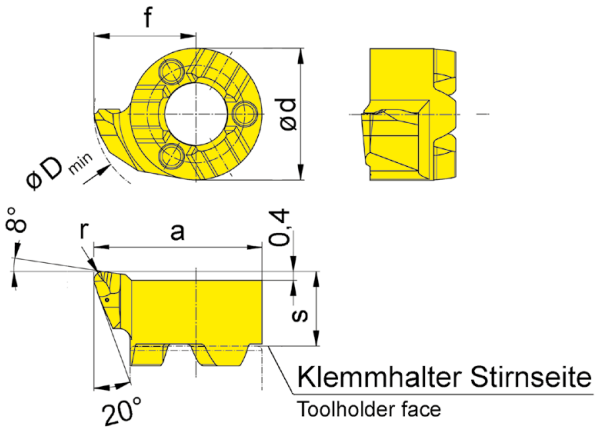
Schneidplatte
Insert

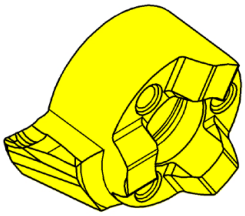
S108

Ø ≥ 7,8 mm

.R







F

R = rechts wie gezeichnet
R = right hand version shown

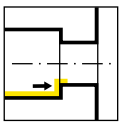
L = links spiegelbildlich
L = left hand version

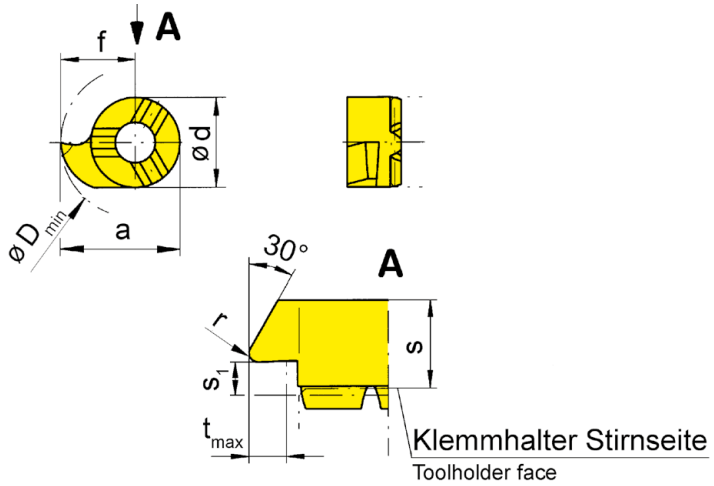
▲ ab Lager
on stock

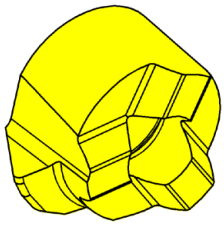
HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	EG55	TH35
RS108.1846.R2	3,4	4,65	7,65	0,2	6	7,8	306060R	▲	▲
RS108.1846.R4	3,4	4,65	7,65	0,4	6	7,8	306060R	▲	▲
LS108.1846.R2	3,4	4,65	7,65	0,2	6	7,8	306060L	▲	▲
LS108.1846.R4	3,4	4,65	7,65	0,4	6	7,8	306060L	▲	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

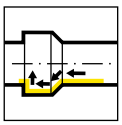
▲ ab Lager
on stock

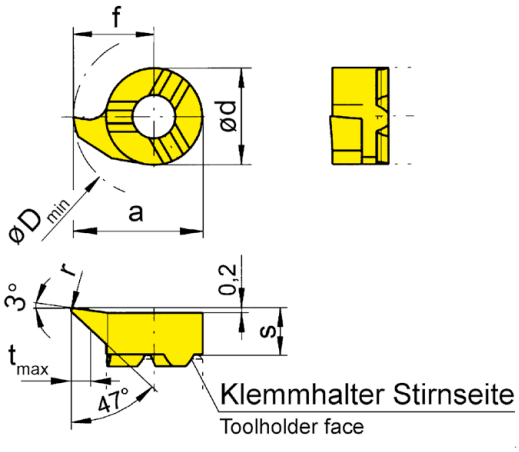
HM-Sorten
Carbide grades

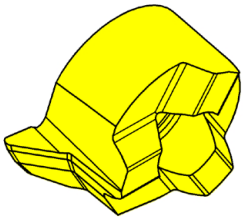
Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	s_1	d	t_{max}	D_{min}	HIS		EG55	TH35	TN35
R108.3046.02	3,6	4,65	7,65	0,2	0,8	6	1,3	7,8	306060R		▲	▲	▲
L108.3046.02	3,6	4,65	7,65	0,2	0,8	6	1,3	7,8	306060L		Δ	Δ	▲
										P	●	●	●
										M	o	●	●
										K	o	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

F







F

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

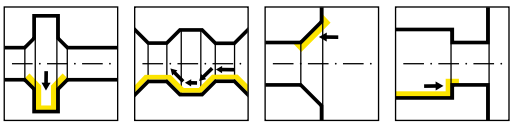
Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS	MG12	EG55	TH35	TN35
R108.4748.01	3,2	4,65	7,65	0,1	6	1,2	7,8	306060R		▲	▲	
R108.4748.02	3,2	4,65	7,65	0,2	6	1,2	7,8	306060R	Δ	▲	▲	▲
R108.4748.04	3,2	4,65	7,65	0,4	6	1,2	7,8	306060R		▲	▲	
L108.4748.01	3,2	4,65	7,65	0,1	6	1,2	7,8	306060L		▲	▲	
L108.4748.02	3,2	4,65	7,65	0,2	6	1,2	7,8	306060L		▲	▲	▲
L108.4748.04	3,2	4,65	7,65	0,4	6	1,2	7,8	306060L		▲	▲	

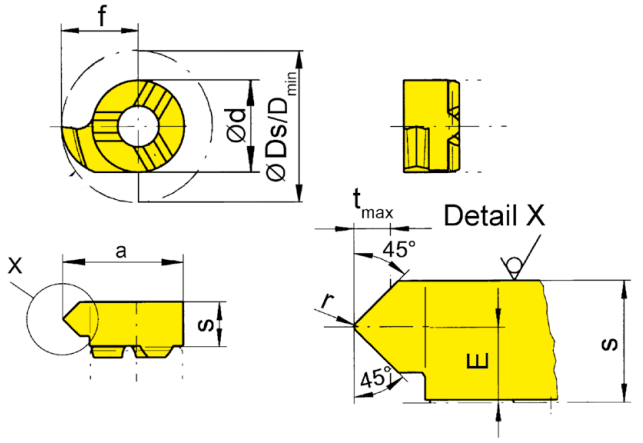
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

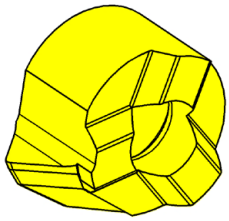
Schneidplatte
Insert

108

Ø ≥ 7,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

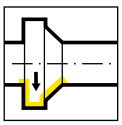
▲ ab Lager
on stock

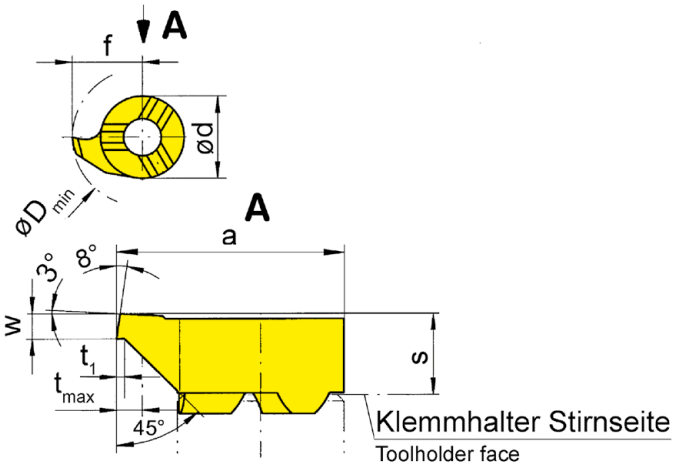
Δ 4 Wochen
4 weeks

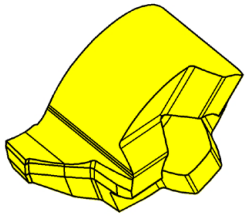
HM-Sorten
Carbide grades

F

Bestellnummer Part number	E	f	Ds	r	d	s	a	D_{min}	α	t_{max}	Z	HIS	EG55	TA45	TI25	TN35
R108.4545.02	1,8	4,65	9,3	0,2	6	3,6	7,65	7,8	45°	1,4	1	306060R	▲	▲	▲	▲
L108.4545.02	1,8	4,65	9,3	0,2	6	3,6	7,65	7,8	45°	1,4	1	306060L	▲	Δ	Δ	▲
													P	●	●	●	●
													M	o	●	●	●
													K	o	●	●	●
													N	-	●	●	●
													S	-	●	●	●
													H	-	-	-	-







F

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

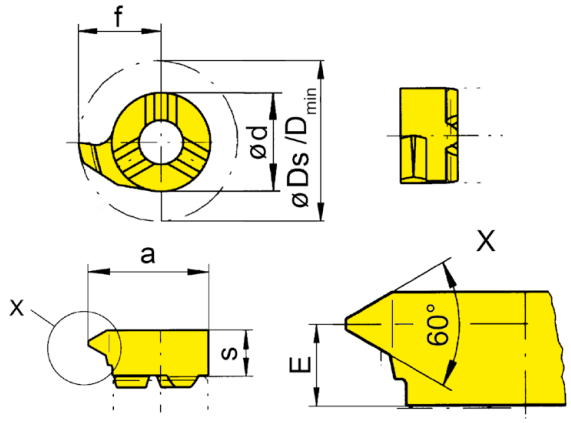
Bestellnummer Part number	w	s	f	a	d	t_{max}	t_1	D_{min}	HIS	MG12	EG55	TI25	TN35
R108.0810.45	1	3,2	4,8	7,8	6	1,5	0,2	8	306060R	▲	▲	▲	▲
L108.0810.45	1	3,2	4,8	7,8	6	1,5	0,2	8	306060L	Δ	▲	▲	▲
										P	o	●	●	●
										M	-	o	●	●
										K	-	o	●	●
										N	-	-	●	●
										S	-	-	●	●
										H	-	-	-	-

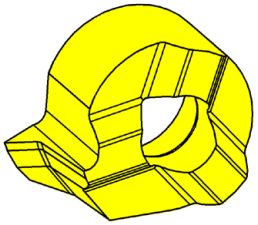
Schneidplatte
Insert

108

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

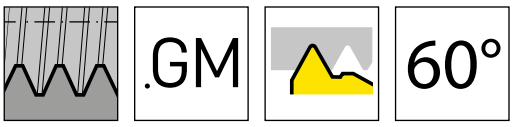
Δ 4 Wochen
4 weeks

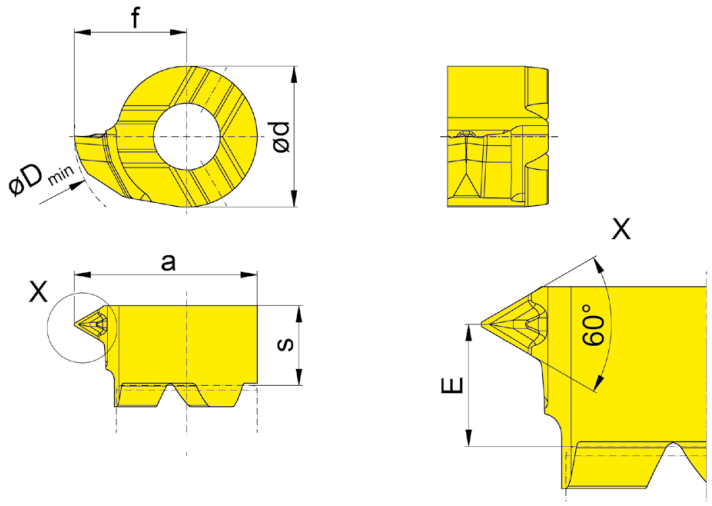
F

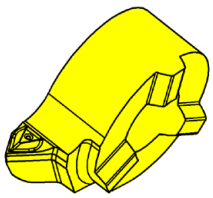
Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	Ds	HIS	MG12	EG55	TH35	TI25	TN35
R108.0205.01	0,5	0,75	2,8	4,8	7,8	6	3,6	8	9,6	306060R	▲	▲	▲		▲
R108.0510.01	1	1,25	2,8	4,8	7,8	6	3,6	8	9,6	306060R	▲	▲	▲	▲	▲
R108.0815.01	1,5	1,75	2,6	4,8	7,8	6	3,6	8	9,6	306060R	▲	▲	▲		▲
L108.0205.01	0,5	0,75	2,8	4,8	7,8	6	3,6	8	9,6	306060L	Δ	▲	▲		▲
L108.0510.01	1	1,25	2,8	4,8	7,8	6	3,6	8	9,6	306060L	Δ	▲	▲	▲	▲
L108.0815.01	1,5	1,75	2,6	4,8	7,8	6	3,6	8	9,6	306060L	Δ	▲	▲		▲
										P	o	●	●	●	●
										M	-	o	●	●	●
										K	-	o	●	●	●
										N	-	-	●	●	●
										S	-	-	●	●	●
										H	-	-	-	-	-

Schneidplatte
Insert

S108 Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

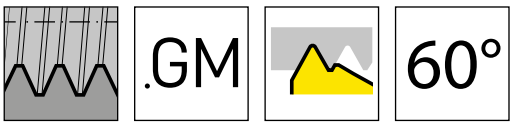
Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	EG55
RS108.0205.GM1	0,5	0,75	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0510.GM1	1	1,25	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0815.GM1	1,5	1,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
LS108.0205.GM1	0,5	0,75	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0510.GM1	1	1,25	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0815.GM1	1,5	1,5	2,6	4,8	7,8	6	3,4	8	306060L	▲

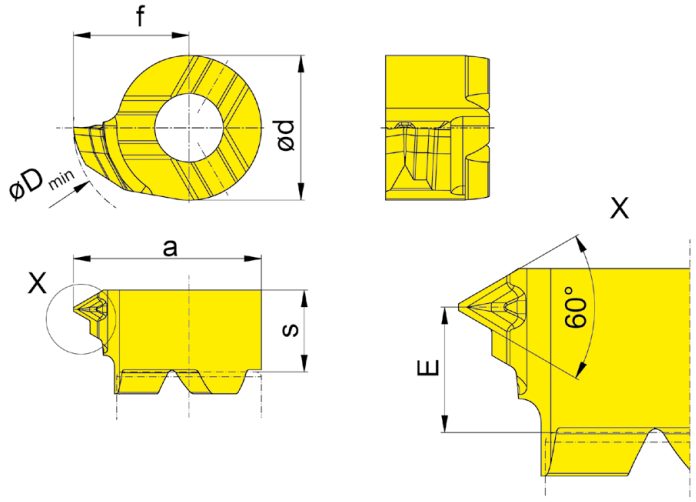
P	●
M	o
K	o
N	-
S	-
H	-

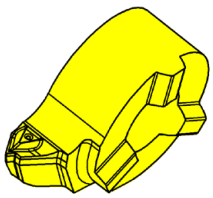
Schneidplatte
Insert

S108

Ø ≥ 8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

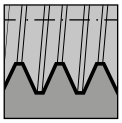
HM-Sorten
Carbide grades

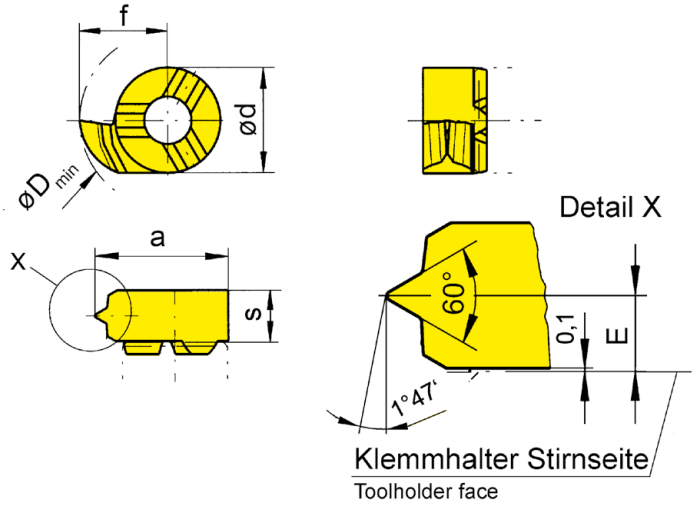
▲ ab Lager
on stock

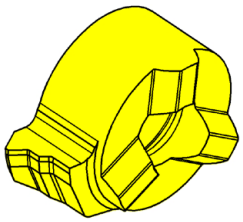
Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55
RS108.0305.GM2	0,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0510.GM2	1	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0512.GM2	1,25	2,6	4,8	7,8	6	3,4	8	306060R	▲
RS108.0815.GM2	1,5	2,6	4,8	7,8	6	3,4	8	306060R	▲
LS108.0305.GM2	0,5	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0510.GM2	1	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0512.GM2	1,25	2,6	4,8	7,8	6	3,4	8	306060L	▲
LS108.0815.GM2	1,5	2,6	4,8	7,8	6	3,4	8	306060L	▲

P	●
M	o
K	o
N	-
S	-
H	-





R = rechts wie gezeichnet
R = right hand version shown

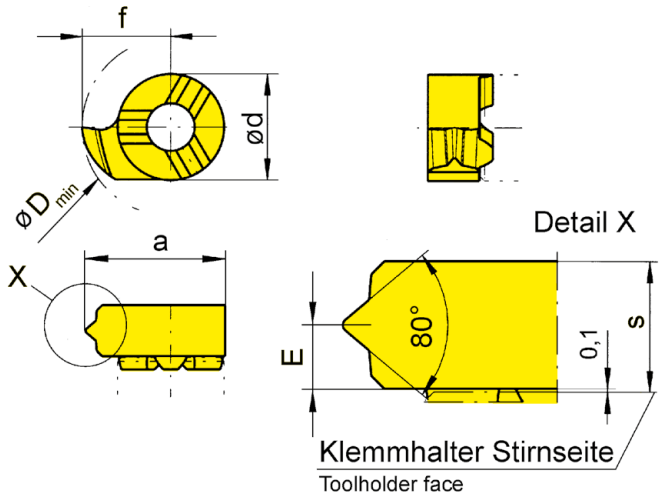
HM-Sorten
Carbide grades

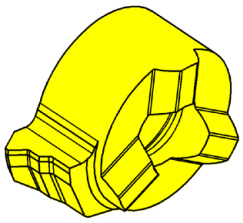
▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	TPI	E	f	d	s	D_{min}	HIS		EG55	TN35
R108.NP14.02	14	1,9	4,8	6	3,6	8	306060R		▲	▲
R108.NP18.02	18	1,9	4,8	6	3,6	8	306060R		▲	▲
R108.NP27.02	27	1,9	4,8	6	3,6	8	306060R		Δ	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	TPI	E	f	d	s	D_{min}	HIS		EG55	TN35
R108.PG18.02	18	1,9	4,8	6	3,6	8	306060R		▲	▲
R108.PG20.02	20	1,9	4,8	6	3,6	8	306060R		▲	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

F

10P

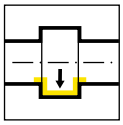


G

Klemmhalter und Schneidplatten

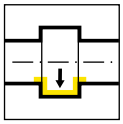
Toolholder and Inserts

Klemmhalter
Toolholder
B10P



Seite/Page
234-235

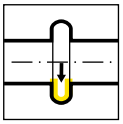
Schneidplatte
Insert
10P/S10P



Seite/Page
236, 238



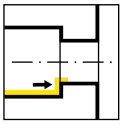
Seite/Page
237, 239



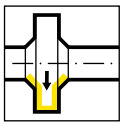
Seite/Page
240



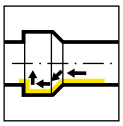
Seite/Page
241



Seite/Page
242



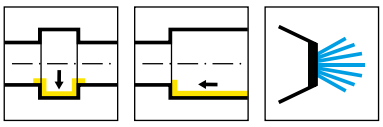
Seite/Page
243

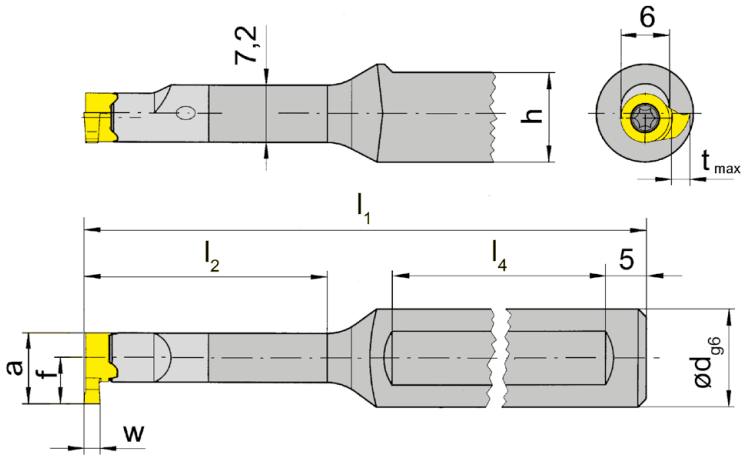


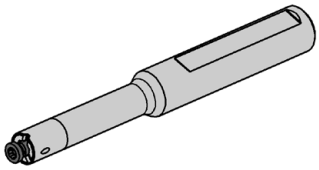
Seite/Page
244

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

G







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB10P.0012.00	12	70	12,5	11	40	10P060R
RB10P.0012.01	12	80	21	11	45	10P060R
RB10P.0012.02	12	90	30	11	45	10P060R
RB10P.0012.03	12	100	42	11	45	10P060R
LB10P.0012.00	12	70	12,5	11	40	10P060L
LB10P.0012.01	12	80	21	11	45	10P060L
LB10P.0012.02	12	90	30	11	45	10P060L
LB10P.0012.03	12	100	42	11	45	10P060L

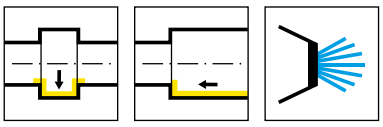
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

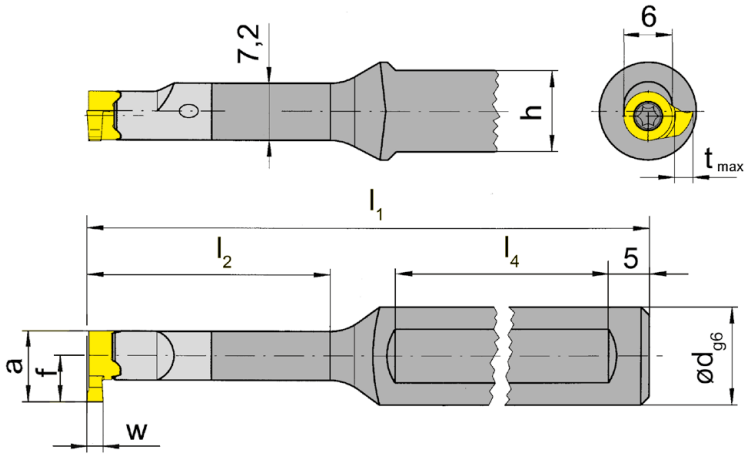
Ersatzteile
Spare Parts

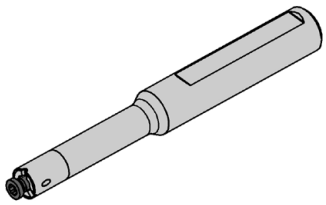
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB10P...	**2.6.5T8EP**	**T8PL**

Klemmhalter
Toolholder

B10P







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB10P.0012.2.00	12	70	12,5	11	40	10P060R
RB10P.0012.2.01	12	80	21	11	45	10P060R
RB10P.0012.2.02	12	90	30	11	45	10P060R
RB10P.0012.2.03	12	100	42	11	45	10P060R
LB10P.0012.2.00	12	70	12,5	11	40	10P060L
LB10P.0012.2.01	12	80	21	11	45	10P060L
LB10P.0012.2.02	12	90	30	11	45	10P060L
LB10P.0012.2.03	12	100	42	11	45	10P060L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

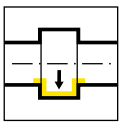
G

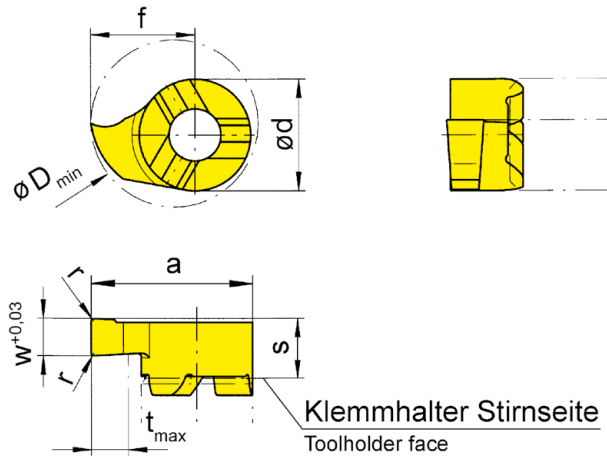
Ersatzteile
Spare Parts

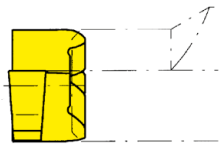
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB10P...	**2.6.5T8EP**	**T8PL**

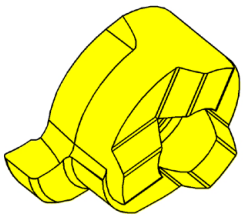
Schneidplatte
Insert

10P Ø ≥ 9 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

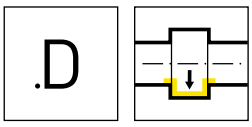
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
R10P.0100.1.00	1	3,6	5,5	8,5	-	6	2	9	10P060R	▲	▲
R10P.0150.1.00	1,5	3,6	5,5	8,5	-	6	2	9	10P060R	▲	▲
R10P.0200.1.02	2	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
R10P.0250.1.02	2,5	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
R10P.0300.1.02	3	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
L10P.0100.1.00	1	3,6	5,5	8,5	-	6	2	9	10P060L	▲	▲
L10P.0150.1.00	1,5	3,6	5,5	8,5	-	6	2	9	10P060L	Δ	▲
L10P.0200.1.02	2	3,6	5,5	8,5	0,2	6	2	9	10P060L	▲	▲
L10P.0250.1.02	2,5	3,6	5,5	8,5	0,2	6	2	9	10P060L	Δ	▲
L10P.0300.1.02	3	3,6	5,5	8,5	0,2	6	2	9	10P060L	Δ	▲
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

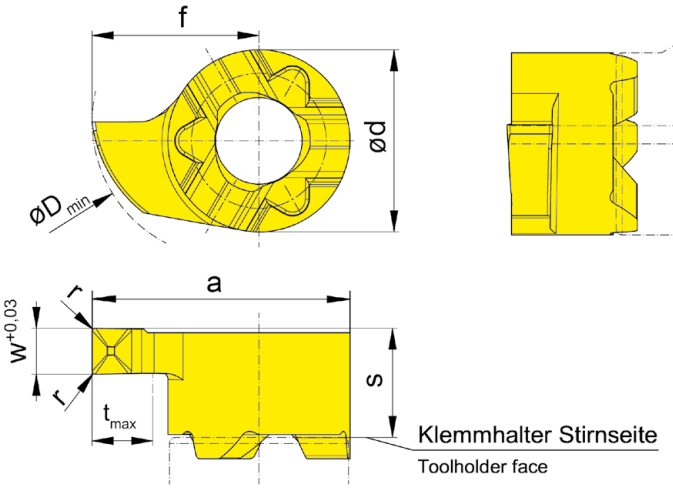
G

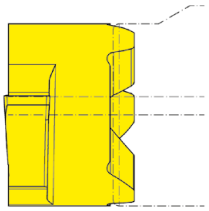
Schneidplatte
Insert

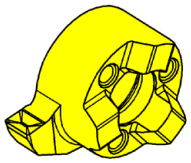
S10P

Ø ≥ 9 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

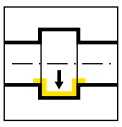
HM-Sorten
Carbide grades

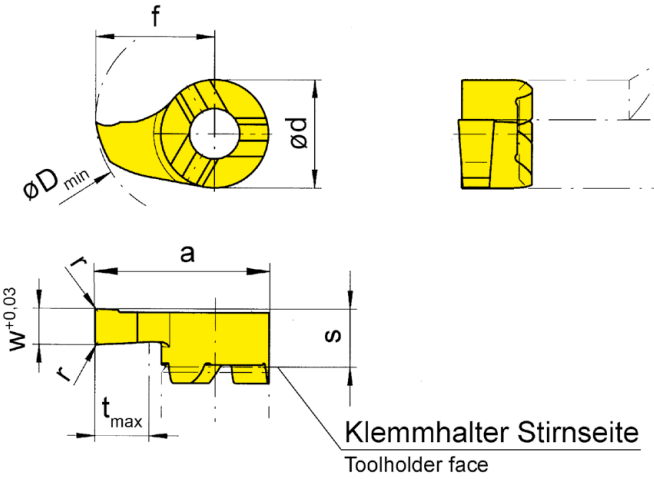
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
RS10P.0100.1.D1	1	3,6	5,5	8,5	0,1	6	2	9	10P060R	▲	▲
RS10P.0150.1.D1	1,5	3,6	5,5	8,5	0,1	6	2	9	10P060R	▲	▲
RS10P.0200.1.D2	2	3,6	5,5	8,5	0,2	6	2	9	10P060R	▲	▲
LS10P.0100.1.D1	1	3,6	5,5	8,5	0,1	6	2	9	10P060L	Δ	▲
LS10P.0150.1.D1	1,5	3,6	5,5	8,5	0,1	6	2	9	10P060L	Δ	▲
LS10P.0200.1.D2	2	3,6	5,5	8,5	0,2	6	2	9	10P060L	Δ	Δ
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

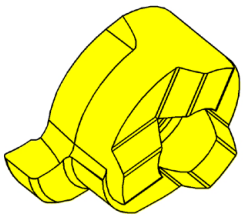
G

Schneidplatte
Insert

10P Ø ≥ 10 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

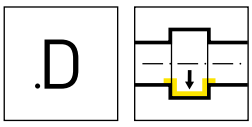
Δ 4 Wochen
4 weeks

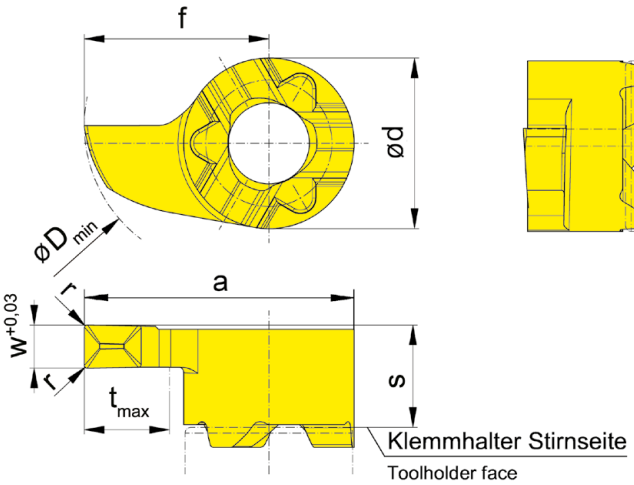
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
R10P.0100.2.00	1	3,6	6,5	9,5	-	6	3	10	10P060R	▲	▲
R10P.0150.2.00	1,5	3,6	6,5	9,5	-	6	3	10	10P060R	▲	▲
R10P.0200.2.02	2	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲	▲
L10P.0100.2.00	1	3,6	6,5	9,5	-	6	3	10	10P060L	Δ	▲
L10P.0150.2.00	1,5	3,6	6,5	9,5	-	6	3	10	10P060L		▲
L10P.0200.2.02	2	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲	▲
										P ●	●
										M o	●
										K o	●
										N -	●
										S -	●
										H -	-

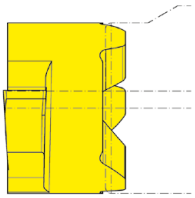
G

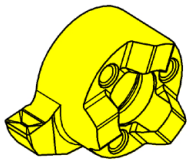
Schneidplatte
Insert

S10P Ø ≥ 10 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

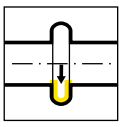
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
RS10P.0150.2.D1	1,5	3,6	6,5	9,5	0,1	6	3	10	10P060R	▲	▲
RS10P.0200.2.D2	2	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲	▲
LS10P.0150.2.D1	1,5	3,6	6,5	9,5	0,1	6	3	10	10P060L	Δ	▲
LS10P.0200.2.D2	2	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲	▲

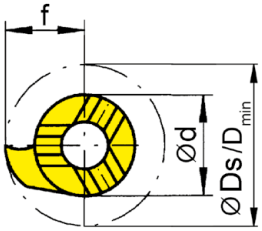
P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

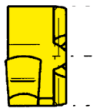
G

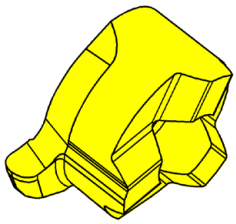
Schneidplatte
Insert

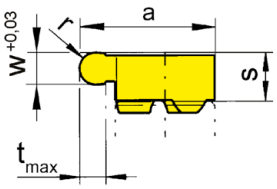
10P Ø ≥ 10 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

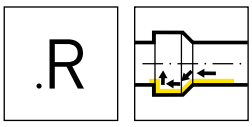
Bestellnummer Part number	w	s	f	a	d	t_{max}	D_{min}	HIS	EG55
R10P.0005.2.10	1	3,6	6,5	9,5	6	3	10	10P060R	▲
R10P.0007.2.15	1,5	3,6	6,5	9,5	6	3	10	10P060R	▲
R10P.0009.2.18	1,8	3,6	6,5	9,5	6	3	10	10P060R	▲
L10P.0005.2.10	1	3,6	6,5	9,5	6	3	10	10P060L	▲
L10P.0007.2.15	1,5	3,6	6,5	9,5	6	3	10	10P060L	▲
L10P.0009.2.18	1,8	3,6	6,5	9,5	6	3	10	10P060L	▲

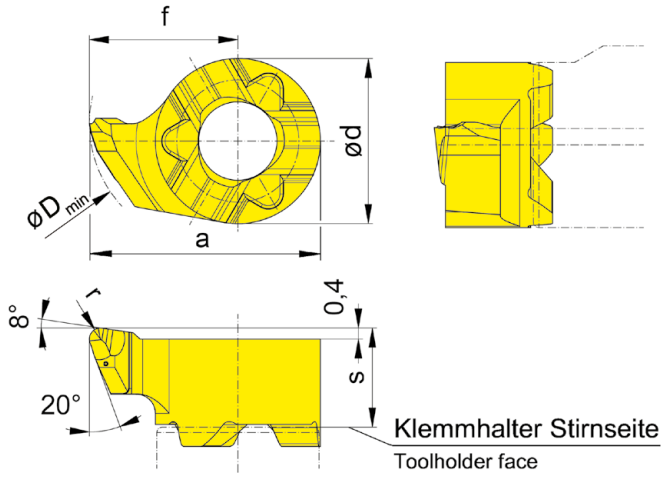
P	●
M	o
K	o
N	-
S	-
H	-

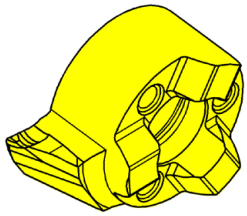
G

Schneidplatte
Insert

S10P Ø ≥ 8,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

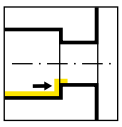
Δ 4 Wochen
4 weeks

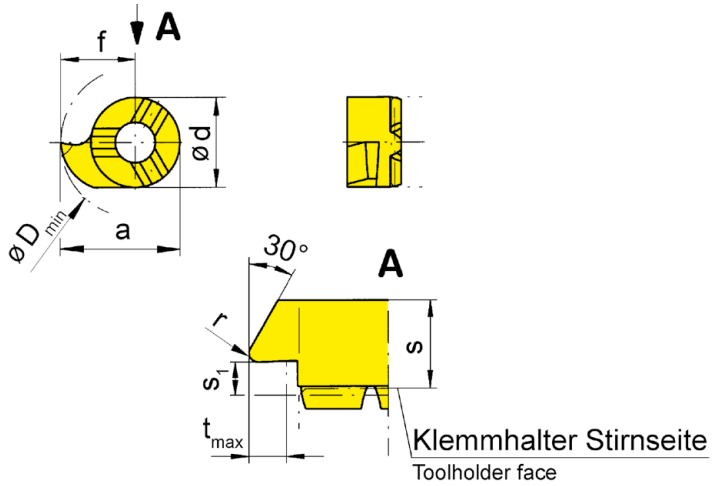
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	HM-Sorten Carbide grades EG55	TH35
RS10P.1854.R2	3,6	5,4	8,4	0,2	6	8,8	10P060R	▲	▲
RS10P.1854.R4	3,6	5,4	8,4	0,4	6	8,8	10P060R	▲	▲
LS10P.1854.R2	3,6	5,4	8,4	0,2	6	8,8	10P060L	▲	▲
LS10P.1854.R4	3,6	5,4	8,4	0,4	6	8,8	10P060L	Δ	▲
								P ●	●
								M o	●
								K o	●
								N -	●
								S -	●
								H -	-

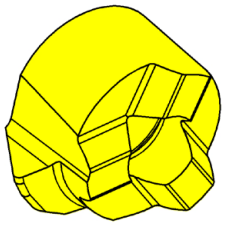
G

Schneidplatte
Insert

10P Ø ≥ 10 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	s_1	d	t_{max}	D_{min}	HIS	EG55
R10P.3065.2.02	3,75	6,5	9,5	0,2	1	6	3	10	10P060R	▲
L10P.3065.2.02	3,75	6,5	9,5	0,2	1	6	3	10	10P060L	▲

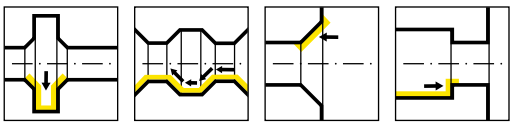
P	●
M	o
K	o
N	-
S	-
H	-

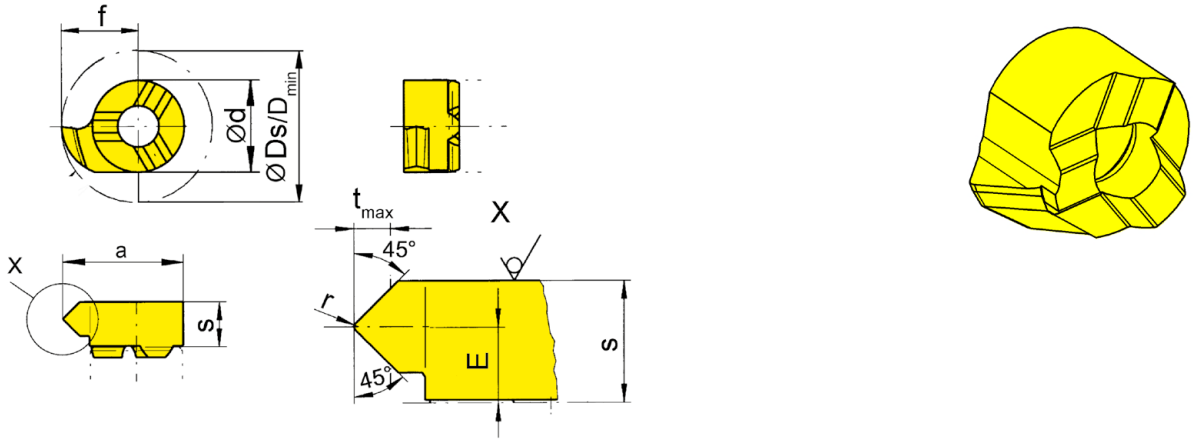
G

Schneidplatte
Insert

10P

Ø ≥ 9 mm





R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

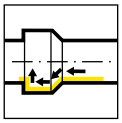
Δ 4 Wochen
4 weeks

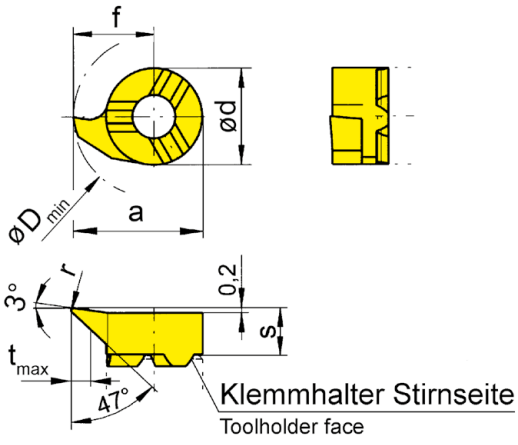
Bestellnummer Part number	E	f	r	d	s	a	D_{min}	α	t_{max}	HIS		EG55
R10P.4545.1.02	1,9	5,5	0,2	6	3,75	8,5	9	45°	1,5	10P060R		▲
L10P.4545.1.02	1,9	5,5	0,2	6	3,75	8,5	9	45°	1,5	10P060L		▲
											P	●
											M	o
											K	o
											N	-
											S	-
											H	-

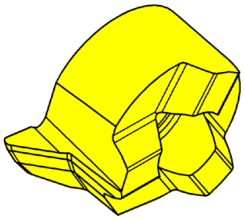
G

Schneidplatte
Insert

10P Ø ≥ 10 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55
R10P.4765.2.02	3,6	6,5	9,5	0,2	6	3	10	10P060R	▲
L10P.4765.2.02	3,6	6,5	9,5	0,2	6	3	10	10P060L	▲

P	●
M	o
K	o
N	-
S	-
H	-

G

111

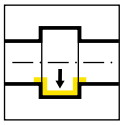


H

Klemmhalter und Schneidplatten

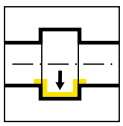
Toolholder and Inserts

Klemmhalter
Toolholder
B111



Seite/Page
248-249

Kurzklemmhalter
Cartridge
125

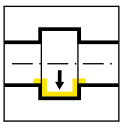


Seite/Page
250

Schneidplatte
Insert
111/S111



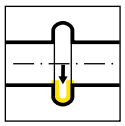
Seite/Page
251-252



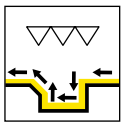
Seite/Page
253



Seite/Page
254



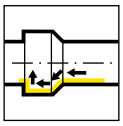
Seite/Page
255



Seite/Page
256



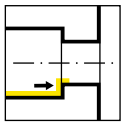
Seite/Page
257



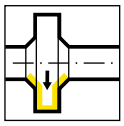
Seite/Page
258, 261



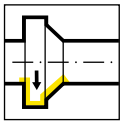
Seite/Page
259



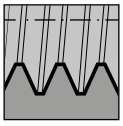
Seite/Page
260



Seite/Page
262



Seite/Page
263

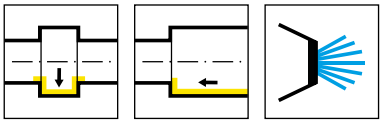


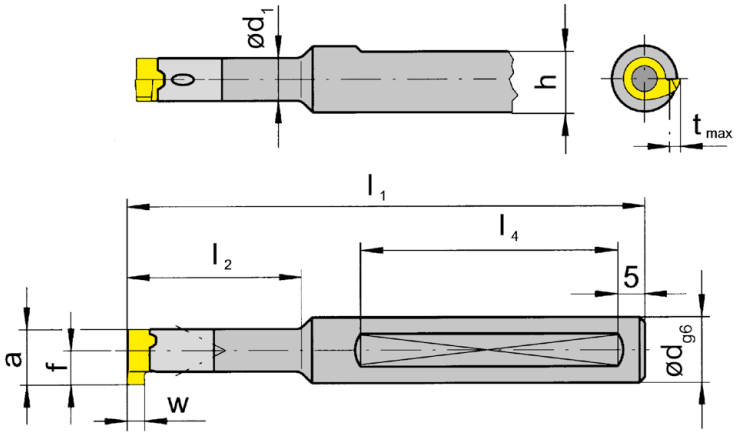
Seite/Page
264-269

H

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

H





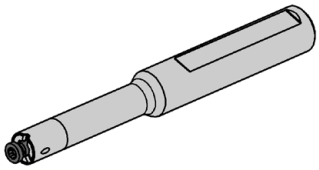


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	l_2	h	l_4	d_1	HWS
B111.0008.01A	8	80	-	-	-	-	308080R • 308080L
B111.0012.00	12	75	16,5	11	40	8	308080R • 308080L
B111.0012.01	12	95	29	11	50	8	308080R • 308080L
B111.0012.02	12	110	42	11	50	8	308080R • 308080L
B111.0012.03	12	120	56	11	50	8	308080R • 308080L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

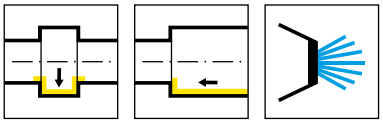
H

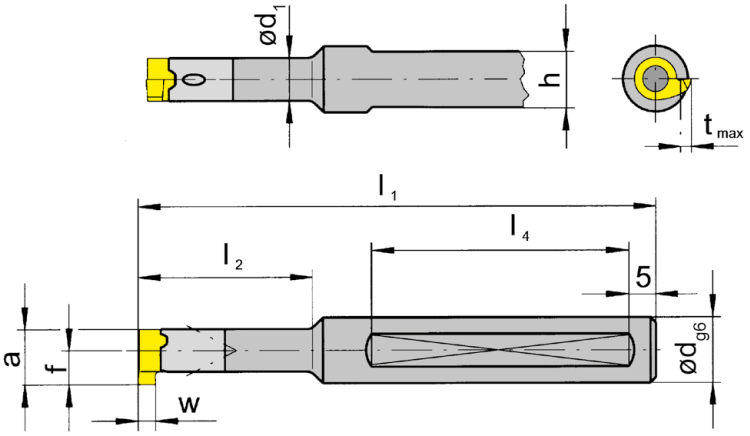
Ersatzteile
Spare Parts

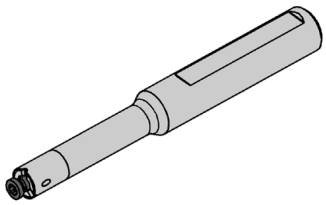
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B111...	**3.5.12T10EP**	**T10PL**

Klemmhalter
Toolholder

B111







R = rechts wie gezeichnet
R = right hand version shown

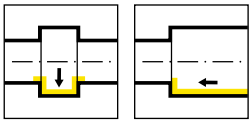
Bestellnummer Part number	d	l_1	l_2	h	l_4	d_1	HWS
B111.0012.2.00	12	75	16,5	11	40	8	308080R • 308080L
B111.0012.2.01	12	95	29	11	50	8	308080R • 308080L
B111.0012.2.02	12	110	42	11	50	8	308080R • 308080L
B111.0012.2.03	12	120	56	11	50	8	308080R • 308080L

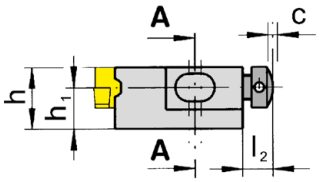
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

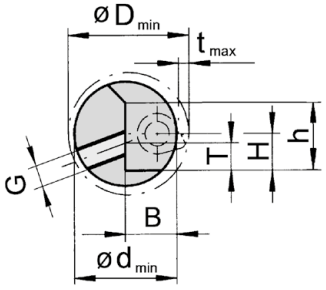
H

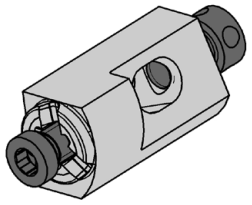
Ersatzteile
Spare Parts

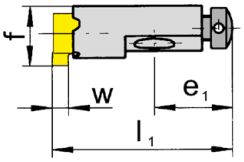
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B111...	**3.5.12T10EP**	**T10PL**

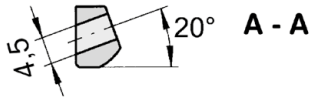












R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	h	l_1	h_1	f	E_1	l_2	C	D_{min}	t_{max}	HWS
L125.0608.00	10	30	6	11,2	12,8	5	2	20	2,3	308080R • 308080L

w siehe Schneidplatten
w see inserts

H

Einbaumaße seating sizes	H	T	B	G	d_{min}	h
L145.1012.00	10	9,0	12,0	M6	26	17

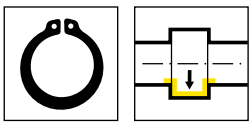
Ersatzteile
Spare Parts

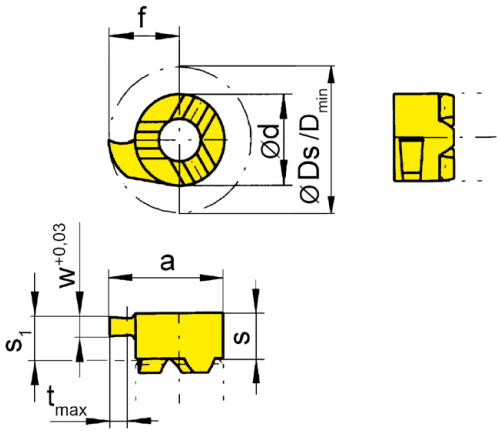
Kurzklemmhalter Cartridge	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
L125.0608.00	**3.5.12T10EP**	**T10PL**

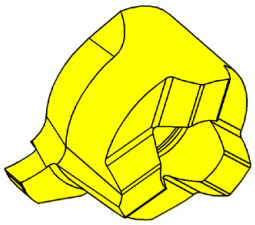
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	Nw	f	Ds	d	s	s_1	a	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R111.0070.00	0,74	0,7	6,7	13,4	8	4,15	3,95	10,7	1,2	11	1	308080R		▲	▲	▲
R111.0080.00	0,84	0,8	6,7	13,4	8	4,15	3,95	10,7	1,3	11	1	308080R		▲	▲	▲
R111.0090.00	0,94	0,9	6,7	13,4	8	4,15	3,95	10,7	1,5	11	1	308080R	▲	▲	▲	▲
L111.0070.00	0,74	0,7	6,7	13,4	8	4,15	3,95	10,7	1,2	11	1	308080L			Δ	▲
L111.0080.00	0,84	0,8	6,7	13,4	8	4,15	3,95	10,7	1,3	11	1	308080L			Δ	▲
L111.0090.00	0,94	0,9	6,7	13,4	8	4,15	3,95	10,7	1,5	11	1	308080L	▲		▲	▲

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

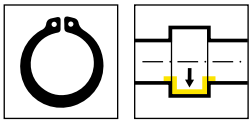
Zapfenausführung
not face cutting, limited depth of cut

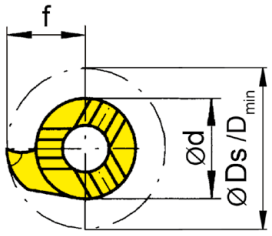
H

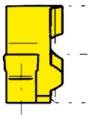
Schneidplatte
Insert

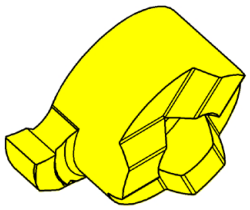
111

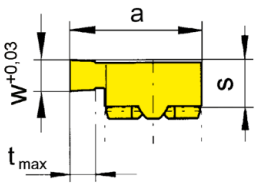
Ø ≥ 11 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

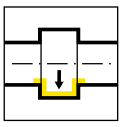
Bestellnummer Part number	w	Nw	s	f	Ds	d	a	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R111.0110.00	1,19	1,1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0130.00	1,39	1,3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0160.00	1,69	1,6	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
L111.0110.00	1,19	1,1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	▲	▲	▲	▲
L111.0130.00	1,39	1,3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	Δ	Δ	▲	▲
L111.0160.00	1,69	1,6	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	Δ	▲	▲	▲
												P	o	●	●	●
												M	-	o	●	●
												K	-	o	●	●
												N	-	-	●	●
												S	-	-	●	●
												H	-	-	-	-

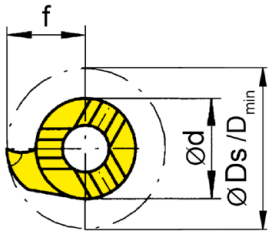
H

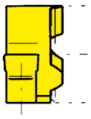
Schneidplatte
Insert

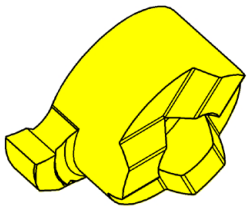
111

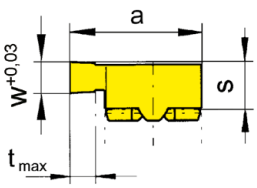
Ø ≥ 11 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	Ds	d	a	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R111.0100.1.00	1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R		Δ		▲
R111.0150.00	1,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0200.00	2	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0250.00	2,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0300.00	3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080R	▲	▲	▲	▲
L111.0100.1.00	1	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L		Δ		▲
L111.0150.00	1,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	▲	▲	▲	▲
L111.0200.00	2	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	▲	▲	▲	▲
L111.0250.00	2,5	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	▲		▲	▲
L111.0300.00	3	3,95	6,7	13,4	8	10,7	2,3	11	1	308080L	▲	▲	▲	▲

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

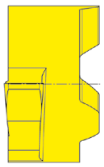
H

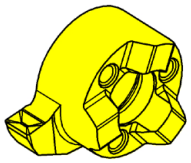
Schneidplatte
Insert

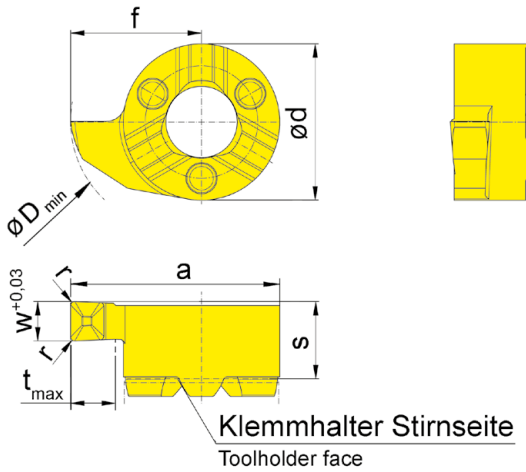
S111

Ø ≥ 11 mm

.D







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

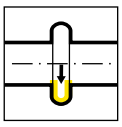
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35	TN35
RS111.0150.D1	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080R		▲	▲	
RS111.0200.D2	2	3,95	6,7	10,7	0,2	8	2,3	11	308080R		▲	▲	
RS111.0250.D2	2,5	3,95	6,7	10,7	0,2	8	2,3	11	308080R		▲	▲	Δ
LS111.0150.D1	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080L		Δ	▲	
LS111.0200.D2	2	3,95	6,7	10,7	0,2	8	2,3	11	308080L		▲	▲	
LS111.0250.D2	2,5	3,95	6,7	10,7	0,2	8	2,3	11	308080L		Δ	▲	
										P	●	●	●
										M	o	●	●
										K	o	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

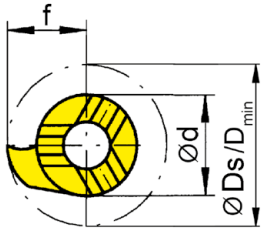
H

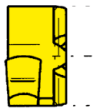
Schneidplatte
Insert

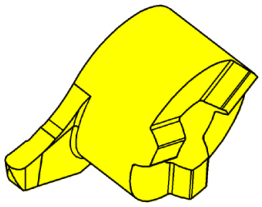
111

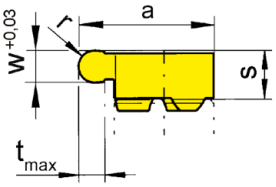
Ø ≥ 11 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

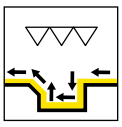
HM-Sorten
Carbide grades

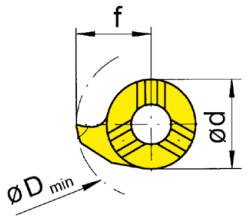
Δ 4 Wochen
4 weeks

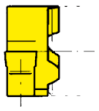
Bestellnummer Part number	w	f	Ds	r	d	s	a	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R111.0004.08	0,8	6,7	13,4	0,4	8	3,95	10,7	2,3	11	1	308080R		▲	▲	▲
R111.0006.12	1,2	6,7	13,4	0,6	8	3,95	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0009.18	1,8	6,7	13,4	0,9	8	3,95	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0010.20	2	6,7	13,4	1	8	3,95	10,7	2,3	11	1	308080R	▲	▲	▲	▲
R111.0015.30	3	6,7	13,4	1,5	8	3,95	10,7	2,3	11	1	308080R	▲	▲	▲	▲
L111.0004.08	0,8	6,7	13,4	0,4	8	3,95	10,7	2,3	11	1	308080L		▲	▲	▲
L111.0006.12	1,2	6,7	13,4	0,6	8	3,95	10,7	2,3	11	1	308080L	Δ	▲	▲	▲
L111.0009.18	1,8	6,7	13,4	0,9	8	3,95	10,7	2,3	11	1	308080L	Δ		▲	▲
L111.0010.20	2	6,7	13,4	1	8	3,95	10,7	2,3	11	1	308080L	▲		▲	▲
L111.0015.30	3	6,7	13,4	1,5	8	3,95	10,7	2,3	11	1	308080L	Δ		▲	▲

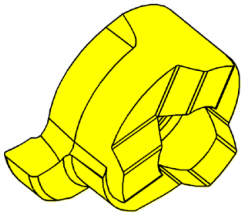
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

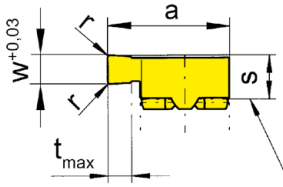
H











Klemmhalter Stirnseite
Toolholder face

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

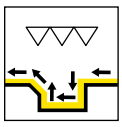
▲ ab Lager
on stock

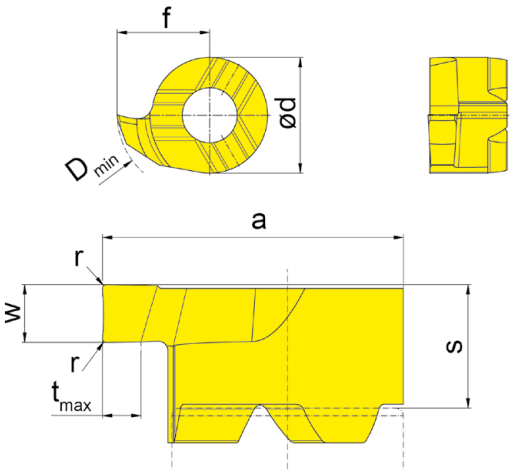
Δ 4 Wochen
4 weeks

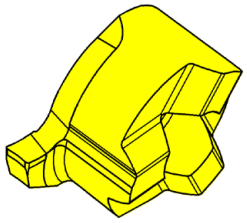
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		MG12	EG55	TH35	TI25	TN35
R111.0200.02	2	3,95	6,7	10,7	0,2	8	2,3	11	308080R		▲	▲	▲	▲	▲
L111.0200.02	2	3,95	6,7	10,7	0,2	8	2,3	11	308080L		▲	▲	▲	Δ	▲
										P	o	●	●	●	●
										M	-	o	●	●	●
										K	-	o	●	●	●
										N	-	-	●	●	●
										S	-	-	●	●	●
										H	-	-	-	-	-

H

.FB







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG35
R111.FB10.01	1	3,95	6,7	10,7	0,1	8	2,3	11	308080R	▲
R111.FB15.01	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080R	▲
L111.FB10.01	1	3,95	6,7	10,7	0,1	8	2,3	11	308080L	▲
L111.FB15.01	1,5	3,95	6,7	10,7	0,1	8	2,3	11	308080L	▲

P	●
M	●
K	o
N	-
S	-
H	-

H

Berechnung der kleinstmöglichen Nutbreite w_x
Calculation of the smallest possible width of groove w_x

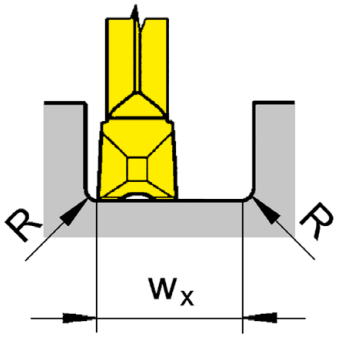
Beispiel R111.FB10.01
Example

w_x = 2 x Schneidbreite w - 2 x Eckenradius Schneidplatte R

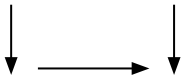
w_x = 2 x Width of insert w - 2 x Corner radius insert R

w_x = 2 x 1 mm - 2 x 0,1 mm

w_x = 1,8 mm



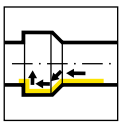
Bearbeitungsablauf
Processing flow

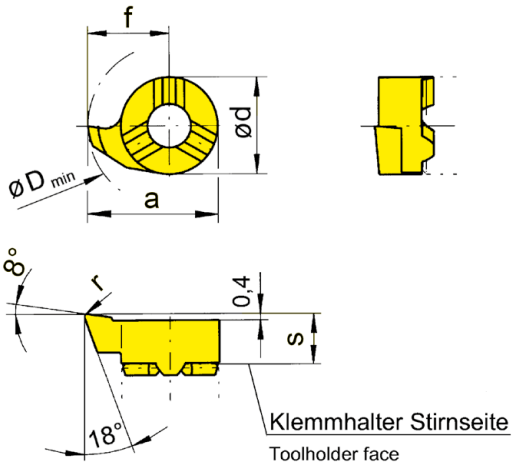


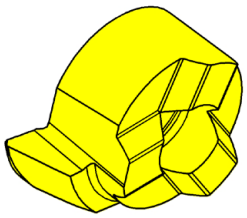
Schneidplatte
Insert

111

Ø ≥ 9,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		MG12	EG55	TH35	TI25	TN35
R111.1855.02	3,95	5,5	9,5	0,2	8	9,8	308080R		▲	▲	▲	▲	▲
R111.1867.02	3,95	6,7	10,7	0,2	8	11	308080R		▲	▲	▲	▲	▲
L111.1855.02	3,95	5,5	9,5	0,2	8	9,8	308080L		▲	▲	▲	▲	▲
L111.1867.02	3,95	6,7	10,7	0,2	8	11	308080L		▲	▲	▲	▲	▲
								P	o	●	●	●	●
								M	-	o	●	●	●
								K	-	o	●	●	●
								N	-	-	●	●	●
								S	-	-	●	●	●
								H	-	-	-	-	-

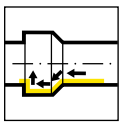
H

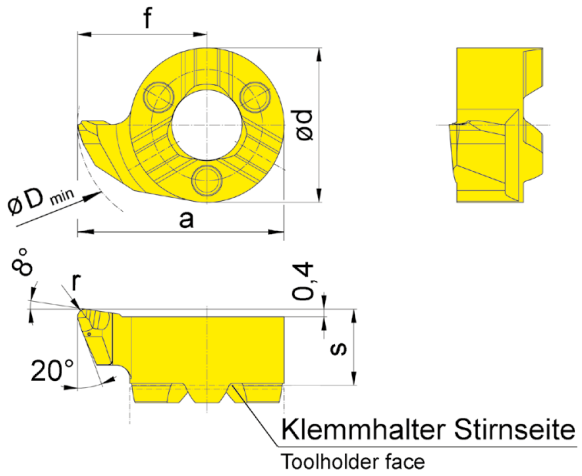
Schneidplatte
Insert

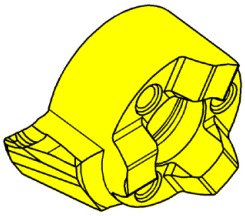
S111

Ø ≥ 11 mm

.R







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	EG55	TH35
RS111.1867.R2	3,95	6,7	10,7	0,2	8	11	308080R	▲	▲
RS111.1867.R4	3,95	6,7	10,7	0,4	8	11	308080R	▲	▲
LS111.1867.R2	3,95	6,7	10,7	0,2	8	11	308080L	▲	▲
LS111.1867.R4	3,95	6,7	10,7	0,4	8	11	308080L	▲	▲

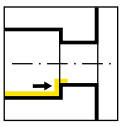
P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

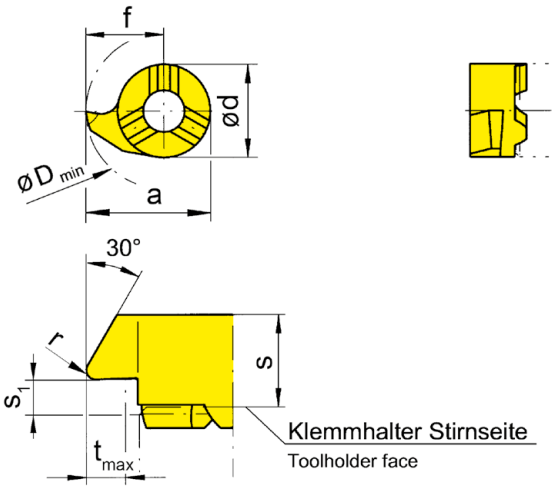
H

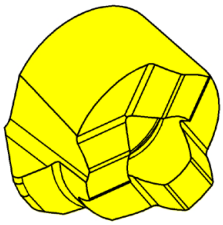
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	s_1	d	t_{max}	D_{min}	HIS	EG55	TH35	TN35
R111.3067.02	4,15	6,7	10,7	0,2	1,4	8	2,3	11	308080R	▲	▲	▲
R111.3067.04	4,15	6,7	10,7	0,4	1,4	8	2,3	11	308080R	Δ	▲	Δ
L111.3067.02	4,15	6,7	10,7	0,2	1,4	8	2,3	11	308080L	▲	▲	▲
L111.3067.04	4,15	6,7	10,7	0,4	1,4	8	2,3	11	308080L	Δ	Δ	▲

HM-Sorten
Carbide grades

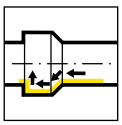
	EG55	TH35	TN35
P	●	●	●
M	o	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

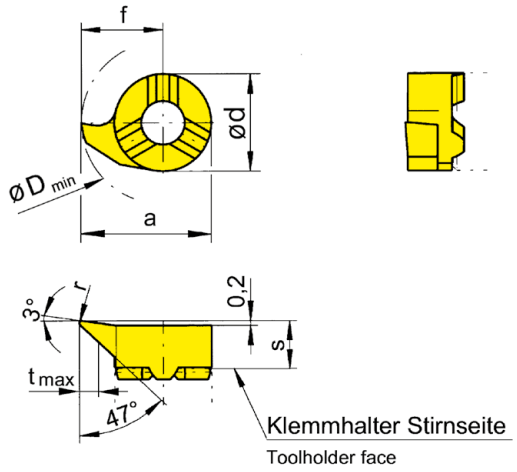
H

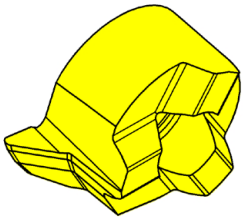
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

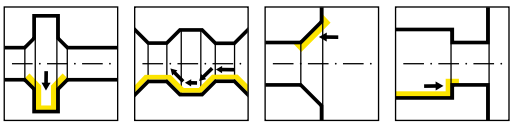
▲ ab Lager
on stock

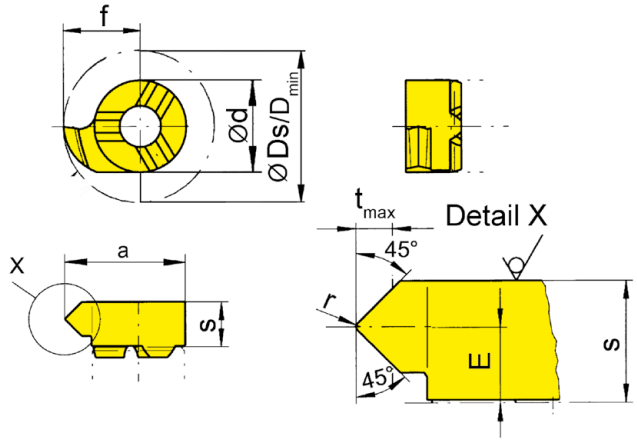
Δ 4 Wochen
4 weeks

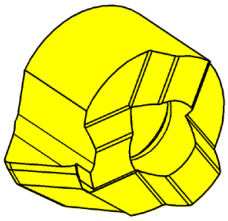
HM-Sorten
Carbide grades

Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35	TI25	TN35
R111.4767.02	3,95	6,7	10,7	0,2	8	2,3	11	308080R	▲	▲	▲	▲
R111.4767.04	3,95	6,7	10,7	0,4	8	2,3	11	308080R	▲	▲		
L111.4767.02	3,95	6,7	10,7	0,2	8	2,3	11	308080L	▲	▲	▲	▲
L111.4767.04	3,95	6,7	10,7	0,4	8	2,3	11	308080L	▲	▲	Δ	
P									●	●	●	●
M									o	●	●	●
K									o	●	●	●
N									-	●	●	●
S									-	●	●	●
H									-	-	-	-

H







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

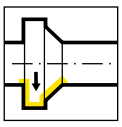
Bestellnummer Part number	E	f	Ds	r	d	s	a	t_{max}	D_{min}	Z	HIS		EG55	TN35
R111.4545.02	2,4	6,7	13,4	0,2	8	4,15	10,7	1,5	11	1	308080R		▲	▲
L111.4545.02	2,4	6,7	13,4	0,2	8	4,15	10,7	1,5	11	1	308080L		▲	▲
												P	●	●
												M	o	●
												K	o	●
												N	-	●
												S	-	●
												H	-	-

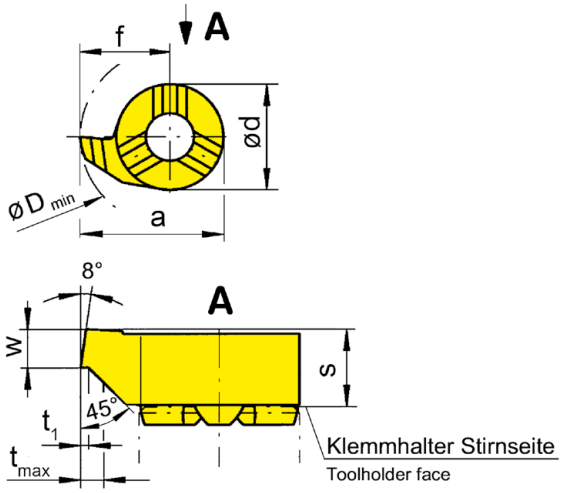
H

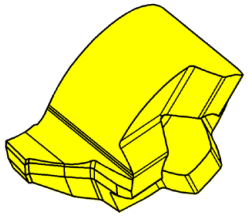
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

Bestellnummer Part number	w	s	a	f	d	t_{max}	t_{1max}	D_{min}	HIS		MG12	EG55	TI25
R111.0810.45	1	3,95	10,7	6,7	8	1,5	0,2	11	308080R		▲	▲	▲
L111.0810.45	1	3,95	10,7	6,7	8	1,5	0,2	11	308080L		Δ	▲	▲
										P	o	●	●
										M	-	o	●
										K	-	o	●
										N	-	-	●
										S	-	-	●
										H	-	-	-

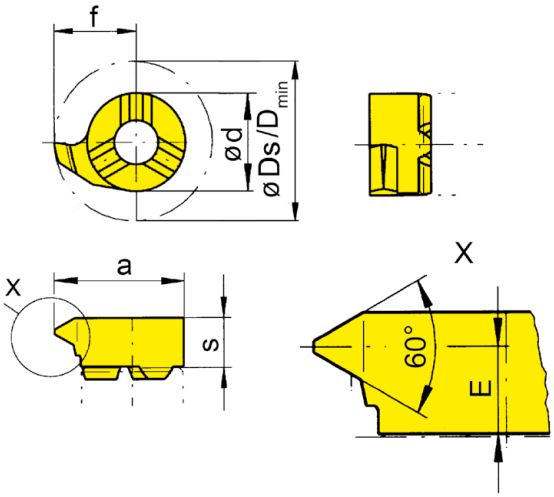
H

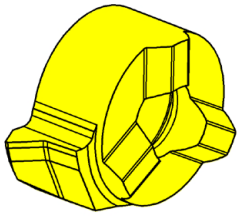
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	s	f	a	d	Ds	D_{min}	HIS	MG12	EG55	TH35	TN35
R111.0205.01	0,5	0,75	3,5	4,15	6,7	10,7	8	13,4	11	308080R		▲	▲	▲
R111.0510.01	1	1,25	3,3	4,15	6,7	10,7	8	13,4	11	308080R		▲	▲	▲
R111.0815.01	1,5	1,75	3,3	4,15	6,7	10,7	8	13,4	11	308080R		▲	▲	▲
R111.1020.01	2	2	3	4,15	6,7	10,7	8	13,4	11	308080R		▲	▲	▲
R111.1325.01	2,5		2,8	4,15	6,7	10,7	8	13,4	11	308080R	Δ	▲	▲	▲
L111.0205.01	0,5	0,75	3,5	4,15	6,7	10,7	8	13,4	11	308080L		Δ	Δ	▲
L111.0510.01	1	1,25	3,3	4,15	6,7	10,7	8	13,4	11	308080L		▲	Δ	▲
L111.0815.01	1,5	1,75	3,3	4,15	6,7	10,7	8	13,4	11	308080L		▲	Δ	▲
L111.1020.01	2	2	3	4,15	6,7	10,7	8	13,4	11	308080L		Δ	Δ	▲
L111.1325.01	2,5		2,8	4,15	6,7	10,7	8	13,4	11	308080L		Δ	Δ	▲

	MG12	EG55	TH35	TN35
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

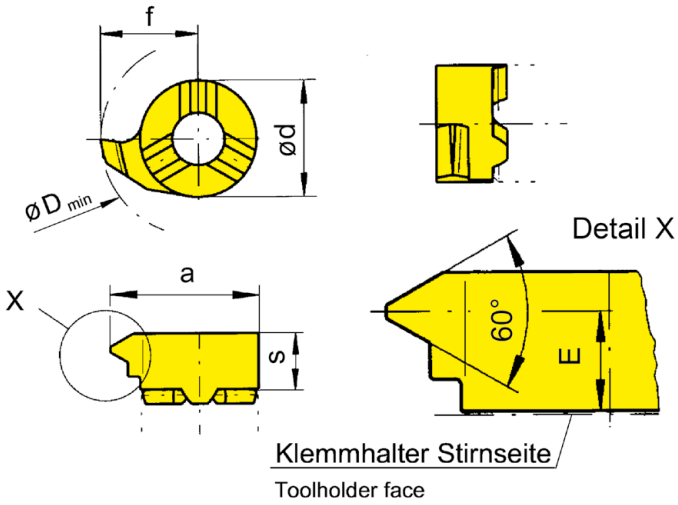
H

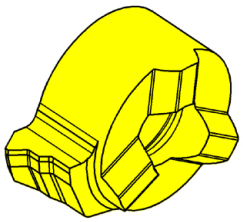
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS		MG12	EG55	TI25	TN35
R111.0510.02	1	3,3	6,7	10,7	8	4,15	11	308080R			▲		▲
R111.0815.02	1,5	3,3	6,7	10,7	8	4,15	11	308080R		▲	▲	Δ	▲
R111.1020.02	2	3	6,7	10,7	8	4,15	11	308080R			▲	Δ	▲
R111.1325.02	2,5	2,8	6,7	10,7	8	4,15	11	308080R			▲		▲
R111.1630.02	3	2,8	6,7	10,7	8	4,15	11	308080R			▲	Δ	▲
L111.0510.02	1	3,3	6,7	10,7	8	4,15	11	308080L			Δ		▲
L111.0815.02	1,5	3,3	6,7	10,7	8	4,15	11	308080L		Δ	▲	Δ	▲
L111.1020.02	2	3	6,7	10,7	8	4,15	11	308080L			▲		▲
L111.1325.02	2,5	2,8	6,7	10,7	8	4,15	11	308080L			Δ		Δ
L111.1630.02	3	2,8	6,7	10,7	8	4,15	11	308080L			Δ		Δ

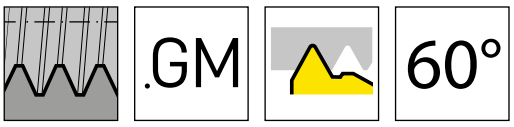
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

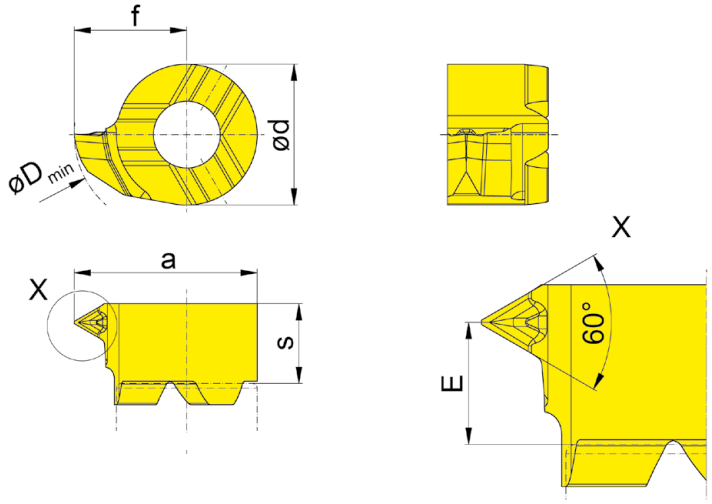
H

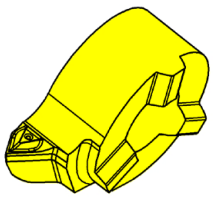
Schneidplatte
Insert

S111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	EG55
RS111.0205.GM1	0,5	0,75	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.0510.GM1	1	1,25	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.0815.GM1	1,5	1,75	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.1020.GM1	2	2	3,1	6,7	10,7	8	4,1	11	308080R	▲
LS111.0205.GM1	0,5	0,75	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.0510.GM1	1	1,25	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.0815.GM1	1,5	1,75	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.1020.GM1	2	2	3,1	6,7	10,7	8	4,1	11	308080L	▲

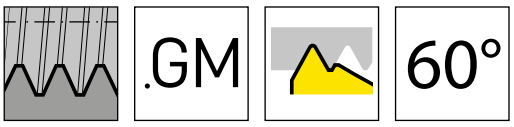
P	●
M	o
K	o
N	-
S	-
H	-

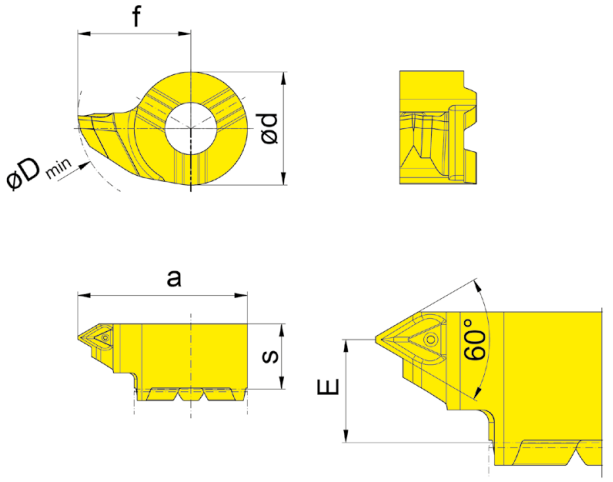
H

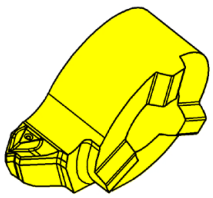
Schneidplatte
Insert

S111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55
RS111.0510.GM2	1	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.0815.GM2	1,5	3,1	6,7	10,7	8	4,1	11	308080R	▲
RS111.1020.GM2	2	3,1	6,7	10,7	8	4,1	11	308080R	▲
LS111.0510.GM2	1	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.0815.GM2	1,5	3,1	6,7	10,7	8	4,1	11	308080L	▲
LS111.1020.GM2	2	3,1	6,7	10,7	8	4,1	11	308080L	▲

P	●
M	o
K	o
N	-
S	-
H	-

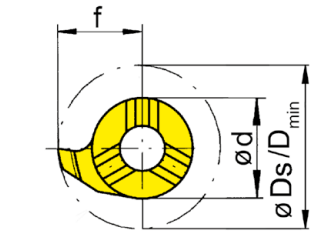
H

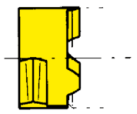
Schneidplatte
Insert

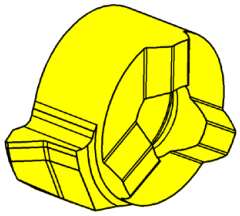
111

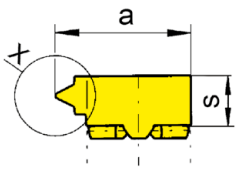
Ø ≥ 11 mm

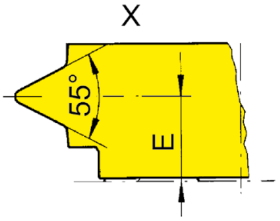












R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

Bestellnummer Part number	TPI	E	s	f	a	d	Ds	D_{min}	HIS	EG55	TA45	TN35
R111.5514.02	14	2,5	4,15	6,7	10,7	8	13,4	11	308080R	▲		▲
R111.5519.02	19	2,9	4,15	6,7	10,7	8	13,4	11	308080R	▲	Δ	▲
L111.5514.02	14	2,5	4,15	6,7	10,7	8	13,4	11	308080L	Δ		▲
L111.5519.02	19	2,9	4,15	6,7	10,7	8	13,4	11	308080L		Δ	▲
P										●	●	●
M										o	●	●
K										o	●	●
N										-	●	●
S										-	●	●
H										-	-	-

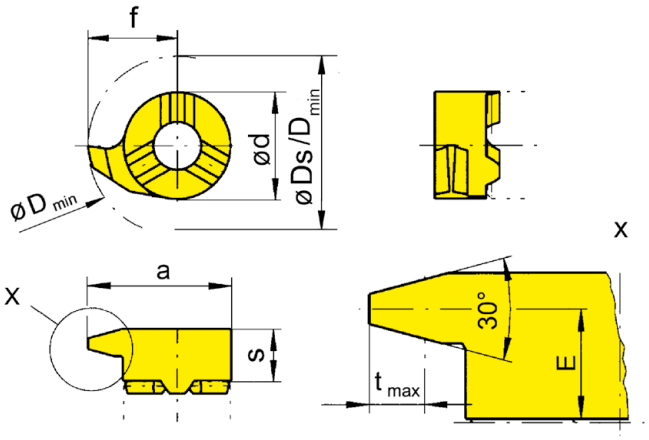
H

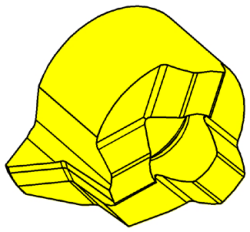
Schneidplatte
Insert

111

Ø ≥ 11 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	Ds	HIS	MG12	EG55	TN35
R111.1015.01	1,5	3,5	6,7	10,7	8	4,15	11	13,4	308080R		▲	▲
R111.1220.01	2	3,3	6,7	10,7	8	4,15	11	13,4	308080R		▲	▲
R111.1730.01	3	3	6,7	10,7	8	4,15	11	13,4	308080R	Δ	▲	▲
R111.2240.01	4	2,5	6,7	10,7	8	4,15	11	13,4	308080R		▲	▲
L111.1015.01	1,5	3,5	6,7	10,7	8	4,15	11	13,4	308080L		Δ	Δ
L111.1220.01	2	3,3	6,7	10,7	8	4,15	11	13,4	308080L		▲	▲
L111.1730.01	3	3	6,7	10,7	8	4,15	11	13,4	308080L	Δ	▲	▲
L111.2240.01	4	2,5	6,7	10,7	8	4,15	11	13,4	308080L		▲	▲

	MG12	EG55	TN35
P	o	●	●
M	-	o	●
K	-	o	●
N	-	-	●
S	-	-	●
H	-	-	-

H

11P

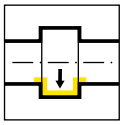


Klemmhalter und Schneidplatten

Toolholder and Inserts

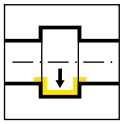
I

Klemmhalter
Toolholder
B11P



Seite/Page
274-275

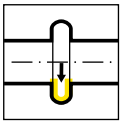
Schneidplatte
Insert
11P/S11P



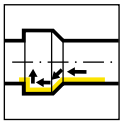
Seite/Page
276, 279



Seite/Page
277, 280



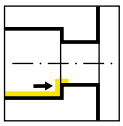
Seite/Page
278



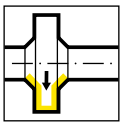
Seite/Page
281, 285



Seite/Page
282



Seite/Page
283



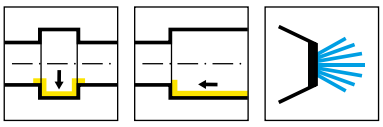
Seite/Page
284

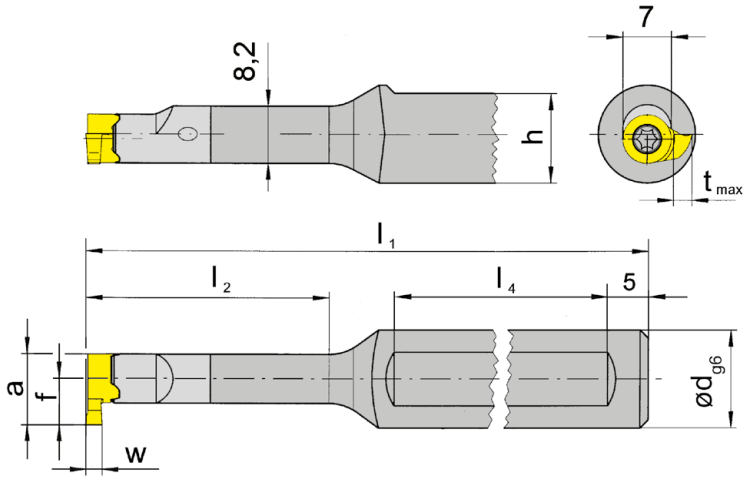
Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

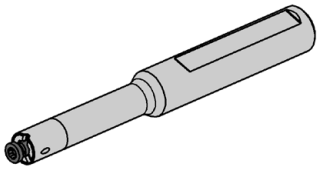
I

Klemmhalter
Toolholder

B11P







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB11P.0012.00	12	75	15	11	40	11P070R
RB11P.0012.01	12	95	26	11	50	11P070R
RB11P.0012.02	12	110	37	11	50	11P070R
RB11P.0012.03	12	120	50	11	50	11P070R
LB11P.0012.00	12	75	15	11	40	11P070L
LB11P.0012.01	12	95	26	11	50	11P070L
LB11P.0012.02	12	110	37	11	50	11P070L
LB11P.0012.03	12	120	50	11	50	11P070L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

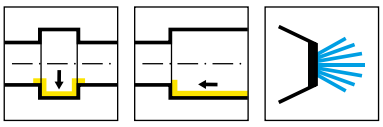
I

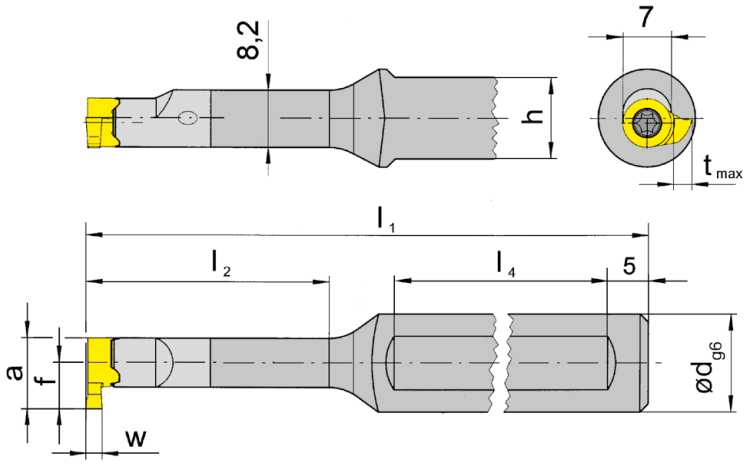
Ersatzteile
Spare Parts

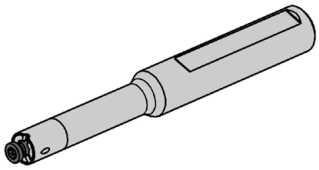
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB11P...	**3.10T9P**	**T9PL**

Klemmhalter
Toolholder

B11P







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RB11P.0012.2.00	12	75	15	11	40	11P070R
RB11P.0012.2.01	12	95	26	11	50	11P070R
RB11P.0012.2.02	12	110	37	11	50	11P070R
RB11P.0012.2.03	12	120	50	11	50	11P070R
LB11P.0012.2.00	12	75	15	11	40	11P070L
LB11P.0012.2.01	12	95	26	11	50	11P070L
LB11P.0012.2.02	12	110	37	11	50	11P070L
LB11P.0012.2.03	12	120	50	11	50	11P070L

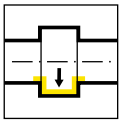
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

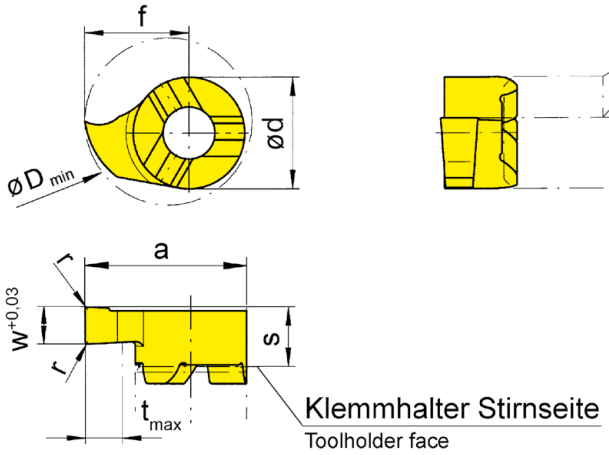
Ersatzteile
Spare Parts

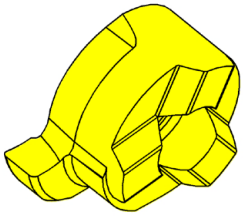
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB11P...	**3.10T9P**	**T9PL**

Schneidplatte
Insert

11P Ø ≥ 10,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

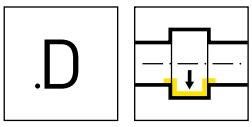
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
R11P.0100.1.00	1	4,2	6,5	10	-	7	2,5	10,5	11P070R		▲
R11P.0150.1.00	1,5	4,2	6,5	10	-	7	2,5	10,5	11P070R	▲	▲
R11P.0200.1.02	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070R		▲
R11P.0250.1.02	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	▲	▲
R11P.0300.1.02	3	4,2	6,5	10	0,2	7	2,5	10,5	11P070R	Δ	▲
L11P.0100.1.00	1	4,2	6,5	10	-	7	2,5	10,5	11P070L	Δ	▲
L11P.0150.1.00	1,5	4,2	6,5	10	-	7	2,5	10,5	11P070L	Δ	Δ
L11P.0200.1.02	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	▲	▲
L11P.0250.1.02	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	Δ	▲
L11P.0300.1.02	3	4,2	6,5	10	0,2	7	2,5	10,5	11P070L	Δ	▲
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

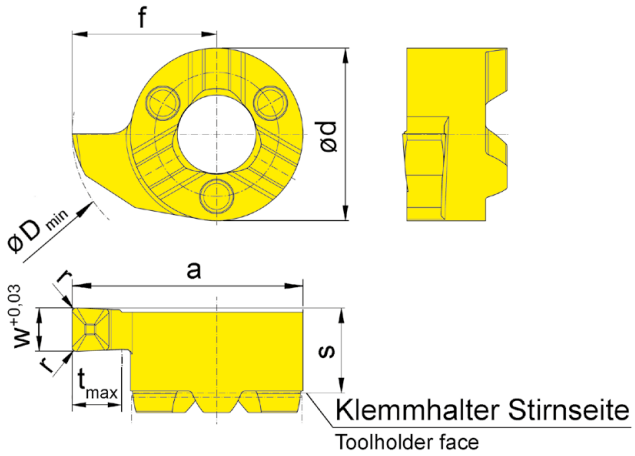
I

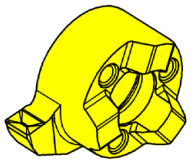
Schneidplatte
Insert

S11P

Ø ≥ 10,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

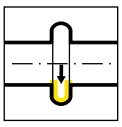
Δ 4 Wochen
4 weeks

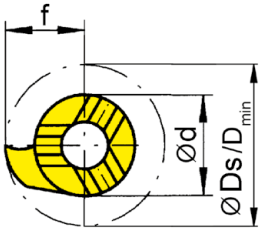
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
RS11P.0150.1.D1	1,5	4,2	6,5	10	0,1	7	2,5	10,5	11P070R		▲	▲
RS11P.0200.1.D2	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070R		▲	▲
RS11P.0250.1.D2	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070R		▲	▲
LS11P.0150.1.D1	1,5	4,2	6,5	10	0,1	7	2,5	10,5	11P070L		Δ	▲
LS11P.0200.1.D2	2	4,2	6,5	10	0,2	7	2,5	10,5	11P070L		Δ	▲
LS11P.0250.1.D2	2,5	4,2	6,5	10	0,2	7	2,5	10,5	11P070L		Δ	Δ
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

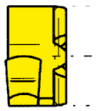
I

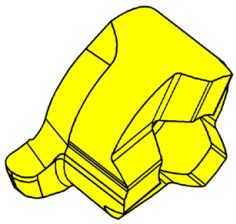
Schneidplatte
Insert

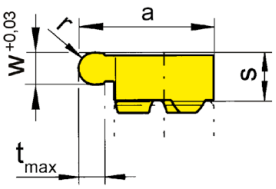
11P Ø ≥ 11,5 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

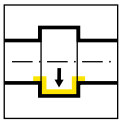
Bestellnummer Part number	w	s	f	a	d	t_{max}	D_{min}	HIS	EG55
R11P.0005.2.10	1	4,2	7,5	11	7	3,5	11,5	11P070R	▲
R11P.0007.2.15	1,5	4,2	7,5	11	7	3,5	11,5	11P070R	▲
R11P.0009.2.18	1,8	4,2	7,5	11	7	3,5	11,5	11P070R	▲
R11P.0010.2.20	2	4,2	7,5	11	7	3,5	11,5	11P070R	▲
L11P.0005.2.10	1	4,2	7,5	11	7	3,5	11,5	11P070L	▲
L11P.0007.2.15	1,5	4,2	7,5	11	7	3,5	11,5	11P070L	▲
L11P.0009.2.18	1,8	4,2	7,5	11	7	3,5	11,5	11P070L	▲
L11P.0010.2.20	2	4,2	7,5	11	7	3,5	11,5	11P070L	▲

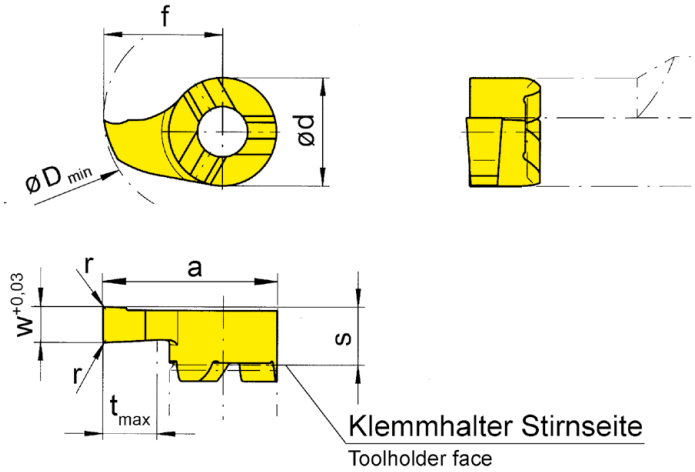
P	●
M	o
K	o
N	-
S	-
H	-

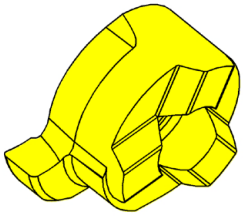
I

Schneidplatte
Insert

11P Ø ≥ 11,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

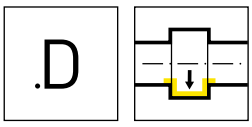
Δ 4 Wochen
4 weeks

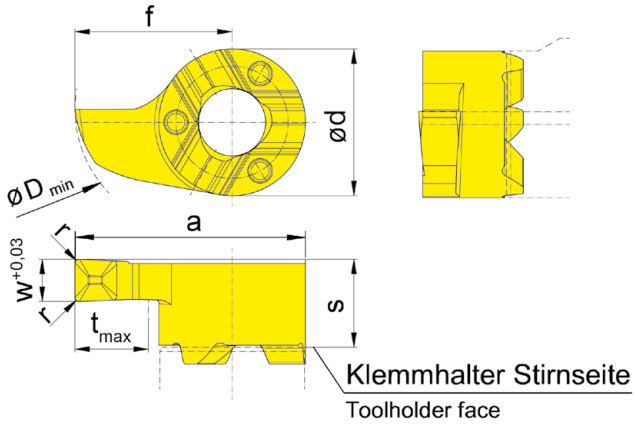
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
R11P.0100.2.00	1	4,2	7,5	11	-	7	3,5	11,5	11P070R	▲	▲
R11P.0150.2.00	1,5	4,2	7,5	11	-	7	3,5	11,5	11P070R	▲	▲
R11P.0200.2.02	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲	▲
L11P.0100.2.00	1	4,2	7,5	11	-	7	3,5	11,5	11P070L	Δ	▲
L11P.0150.2.00	1,5	4,2	7,5	11	-	7	3,5	11,5	11P070L	Δ	▲
L11P.0200.2.02	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲	▲
										P ●	●
										M o	●
										K o	●
										N -	●
										S -	●
										H -	-

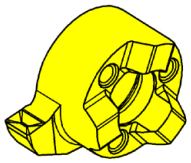
I

Schneidplatte
Insert

S11P Ø ≥ 11,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

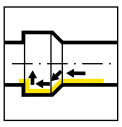
Δ 4 Wochen
4 weeks

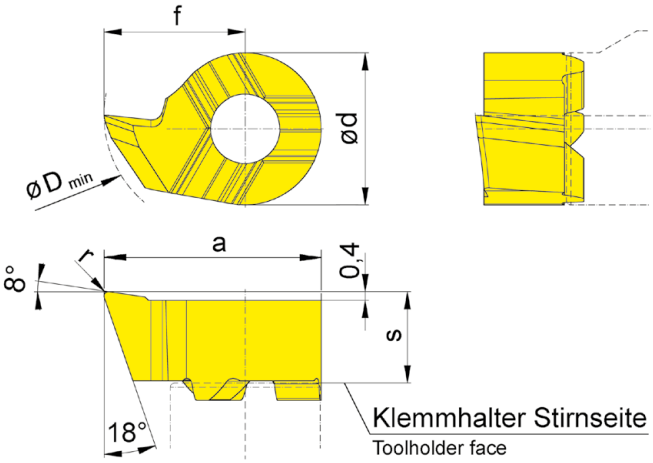
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
RS11P.0150.2.D1	1,5	4,2	7,5	11	0,1	7	3,5	11,5	11P070R		▲	▲
RS11P.0200.2.D2	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070R		▲	▲
RS11P.0250.2.D2	2,5	4,2	7,5	11	0,2	7	3,5	11,5	11P070R		▲	▲
LS11P.0150.2.D1	1,5	4,2	7,5	11	0,1	7	3,5	11,5	11P070L		Δ	▲
LS11P.0200.2.D2	2	4,2	7,5	11	0,2	7	3,5	11,5	11P070L		▲	▲
LS11P.0250.2.D2	2,5	4,2	7,5	11	0,2	7	3,5	11,5	11P070L		Δ	▲
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

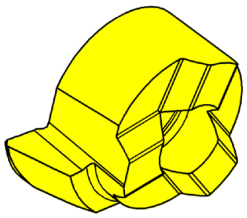
I

Schneidplatte
Insert

11P Ø ≥ 10,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

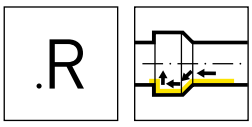
Δ 4 Wochen
4 weeks

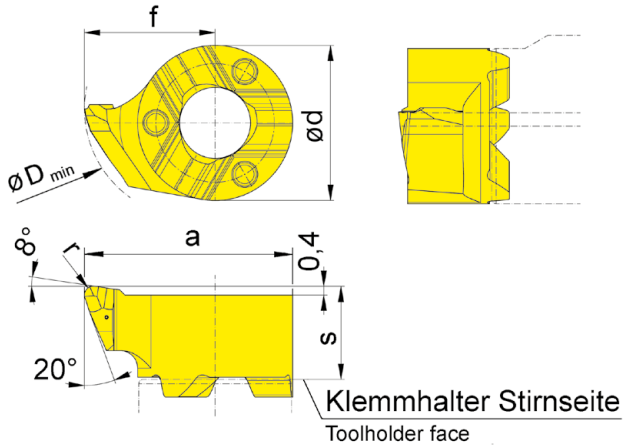
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG55	TH35
R11P.1865.1.02	4,2	6,5	10	0,2	7	10,5	11P070R		▲	▲
L11P.1865.1.02	4,2	6,5	10	0,2	7	10,5	11P070L		Δ	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

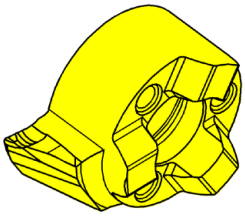
I

Schneidplatte
Insert

S11P Ø ≥ 9,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

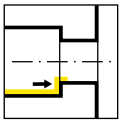
Δ 4 Wochen
4 weeks

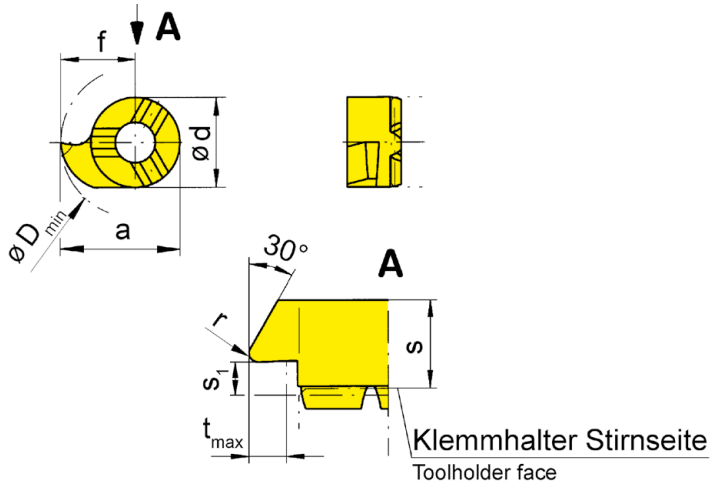
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS	EG55	TH35
RS11P.1859.R2	4,2	5,9	9,4	0,2	7	9,8	11P070R	▲	▲
RS11P.1859.R4	4,2	5,9	9,4	0,4	7	9,8	11P070R	▲	▲
LS11P.1859.R2	4,2	5,9	9,4	0,2	7	9,8	11P070L		▲
LS11P.1859.R4	4,2	5,9	9,4	0,4	7	9,8	11P070L	▲	▲
P								●	●
M								o	●
K								o	●
N								-	●
S								-	●
H								-	-

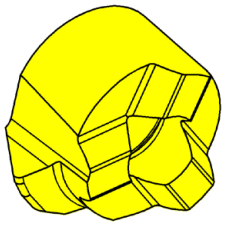
I

Schneidplatte
Insert

11P Ø ≥ 11,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	s_1	d	t_{max}	D_{min}	HIS	EG55
R11P.3075.2.02	4,35	7,5	11	0,2	1,6	7	3,5	11,5	11P070R	▲
L11P.3075.2.02	4,35	7,5	11	0,2	1,6	7	3,5	11,5	11P070L	▲

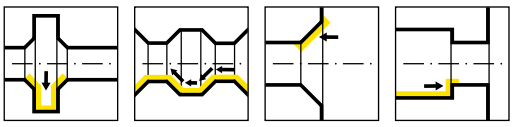
P	●
M	o
K	o
N	-
S	-
H	-

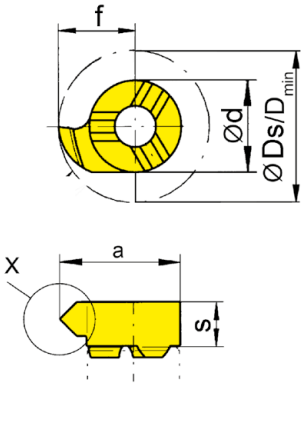
I

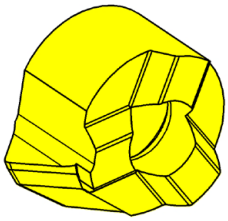
Schneidplatte
Insert

11P

Ø ≥ 10,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

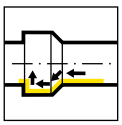
Δ 4 Wochen
4 weeks

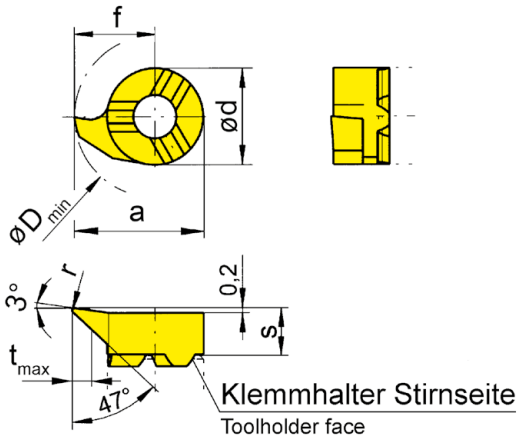
Bestellnummer Part number	E	f	r	d	s	a	D_{min}	α	t_{max}	HIS		EG55
R11P.4545.1.02	2,2	6,5	0,2	7	4,35	10	10,5	45°	1,7	11P070R		▲
L11P.4545.1.02	2,2	6,5	0,2	7	4,35	10	10,5	45°	1,7	11P070L		▲
											P	●
											M	o
											K	o
											N	-
											S	-
											H	-

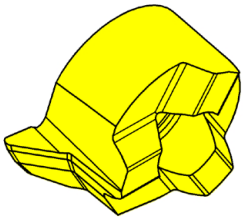
I

Schneidplatte
Insert

11P Ø ≥ 11,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55
R11P.4775.2.02	4,2	7,5	11	0,2	7	3,5	11,5	11P070R	▲
L11P.4775.2.02	4,2	7,5	11	0,2	7	3,5	11,5	11P070L	▲

P	●
M	o
K	o
N	-
S	-
H	-

I

114

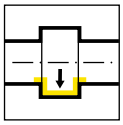


Klemmhalter und Schneidplatten

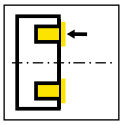
Toolholder and Inserts

J

Klemmhalter
Toolholder
B114/WFB.114/BA114/
HC114



Seite/Page
290-292

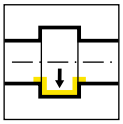


Seite/Page
293-294

Schneidplatte
Insert
114/S114



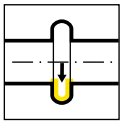
Seite/Page
295-296



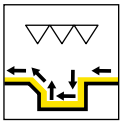
Seite/Page
297, 299



Seite/Page
298, 300



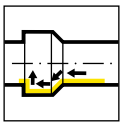
Seite/Page
301



Seite/Page
302



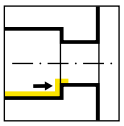
Seite/Page
303



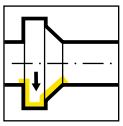
Seite/Page
304, 307



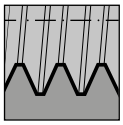
Seite/Page
305



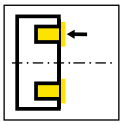
Seite/Page
306



Seite/Page
308



Seite/Page
309-313

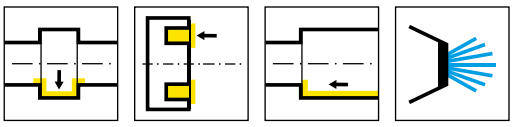


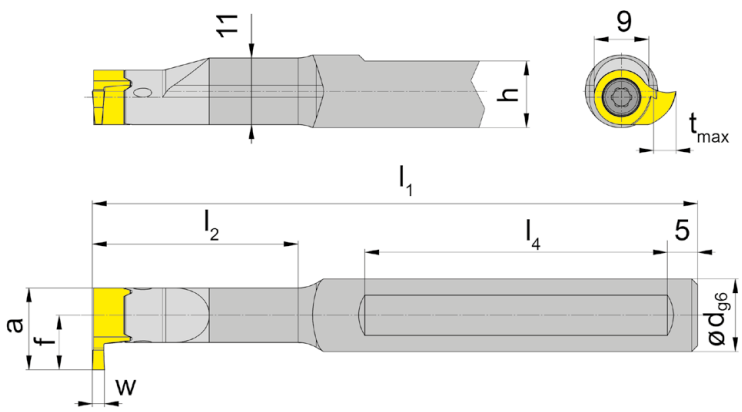
Seite/Page
314-317

J

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

J





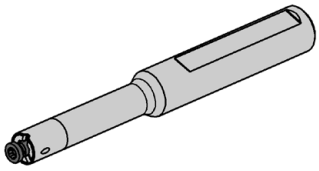


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
B114.0012.00	12	75	19,5	11	40	311090R • 311090L
B114.0012.01	12	100	34	11	50	311090R • 311090L
B114.0012.02	12	110	45	11	50	311090R • 311090L
B114.0012.03	12	130	64	11	50	311090R • 311090L
B114.0016.00	16	80	19,5	15	40	311090R • 311090L
B114.0016.01	16	100	34	15	50	311090R • 311090L
B114.0016.02	16	110	45	15	50	311090R • 311090L
B114.0016.03	16	130	64	15	50	311090R • 311090L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

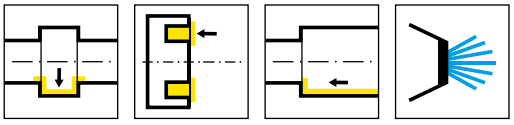
J

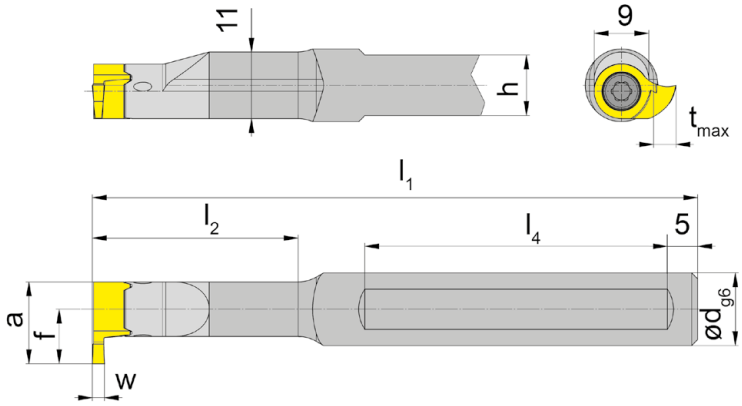
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B114...	**4.12T15EP**	**T15PQ**

Klemmhalter
Toolholder

B114





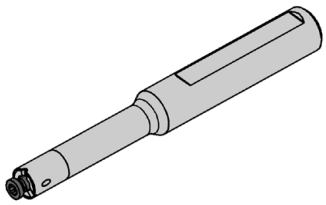


Abbildung = rechtsschneidend
Picture = right hand cutting version

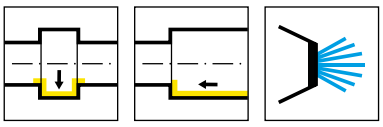
Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
B114.0012.2.00	12	75	19,5	11	40	311090R • 311090L
B114.0012.2.01	12	100	34	11	50	311090R • 311090L
B114.0012.2.02	12	110	45	11	50	311090R • 311090L
B114.0012.2.03	12	130	64	11	50	311090R • 311090L
B114.0016.2.00	16	80	19,5	14	40	311090R • 311090L
B114.0016.2.01	16	100	34	14	50	311090R • 311090L
B114.0016.2.02	16	110	45	14	50	311090R • 311090L
B114.0016.2.03	16	130	64	14	50	311090R • 311090L

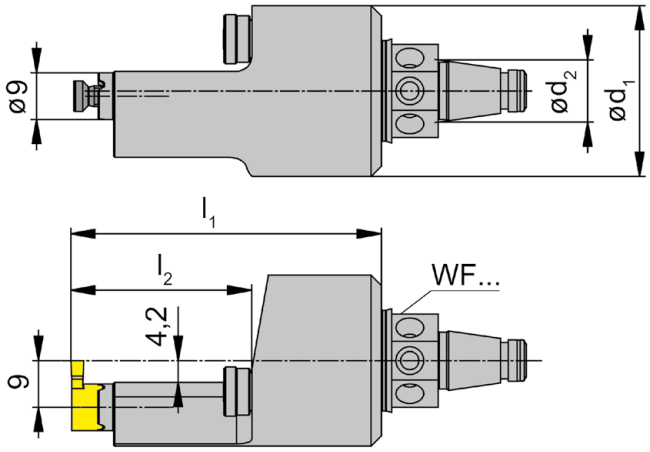
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

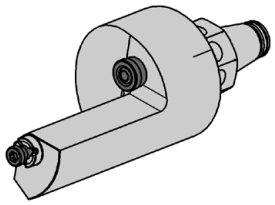
J

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B114...	**4.12T15EP**	**T15PQ**







Bestellnummer Part number	d_1	l_1	d_2	l_2	HWS	HMS
WFB.2H0.114	33	60	12	35	311090R • 311090L	WFB
WFB.3H0.114	50	80	20	32	311090R • 311090L	WFB

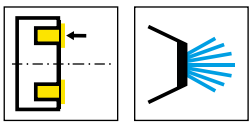
J

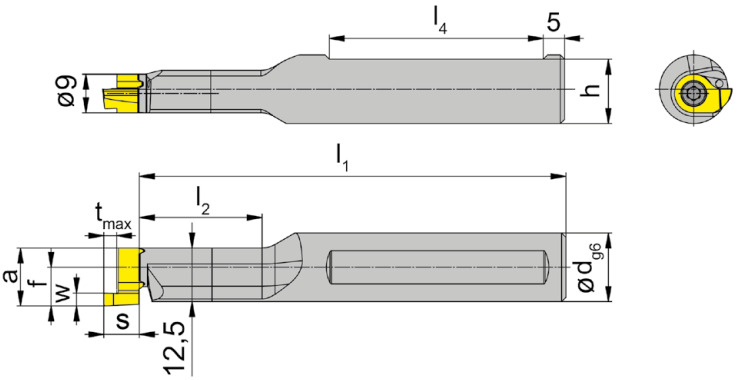
Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**Kugelspritzdüse** Coolant spray nozzle	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
WFB.2H0.114	**4.12T15EP**	**020.0806.3116**	**T15PQ**
WFB.3H0.114			

Klemmhalter
Toolholder

BA114





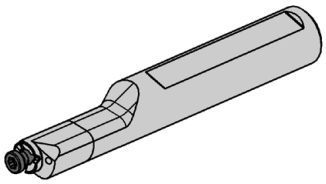


Abbildung = rechtsschneidend
Picture = right hand cutting version

Bestellnummer Part number	d	l_1	l_2	h	l_4	HWS
RBA114.0016.01	16	99,7	28,7	15	50	311090R • 311090L
RBA114.0016.02	16	109,7	39,7	15	50	311090R • 311090L
LBA114.0016.01	16	99,7	28,7	15	50	311090R • 311090L
LBA114.0016.02	16	109,7	39,7	15	50	311090R • 311090L

w, a, s, tmax und f siehe Schneidplatten
w, a, s, tmax and f see inserts

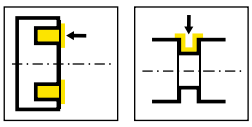
Ersatzteile
Spare Parts

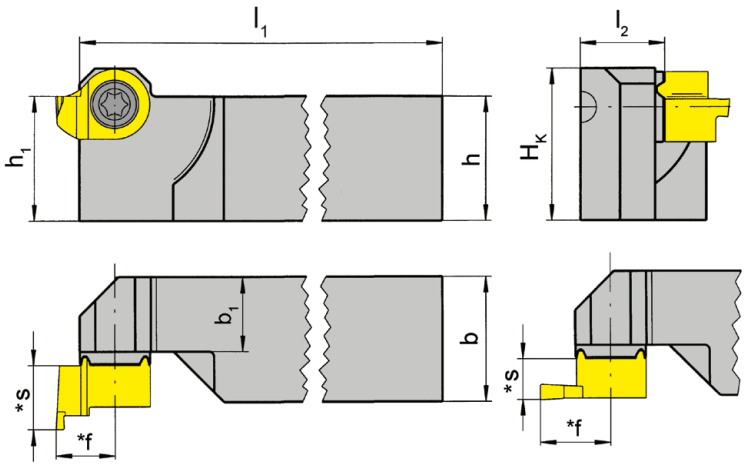
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LBA114...	**4.12T15EP**	**T15PQ**

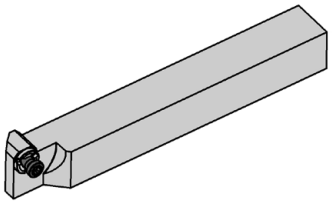
J

Klemmhalter
Toolholder

HC114







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	h	b	l_1	l_2	h_1	b_1	H_K	HWS
RHC114.1212.01	12	12	122	11,2	12	9,5	15,6	311090R • 311090L
RHC114.1616.01	16	16	122	11,2	16	9,5	19,6	311090R • 311090L
RHC114.2020.01	20	20	122	15,2	20	13,5	23,6	311090R • 311090L
RHC114.2525.01	25	25	147	20,2	25	18,5	28,6	311090R • 311090L
LHC114.1212.01	12	12	122	11,2	12	9,5	15,6	311090R • 311090L
LHC114.1616.01	16	16	122	11,2	16	9,5	19,6	311090R • 311090L
LHC114.2020.01	20	20	122	15,2	20	13,5	23,6	311090R • 311090L
LHC114.2525.01	25	25	147	20,2	25	18,5	28,6	311090R • 311090L

* siehe Schneidplatten
* see inserts

J

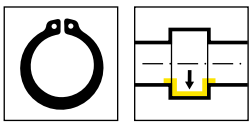
Ersatzteile
Spare Parts

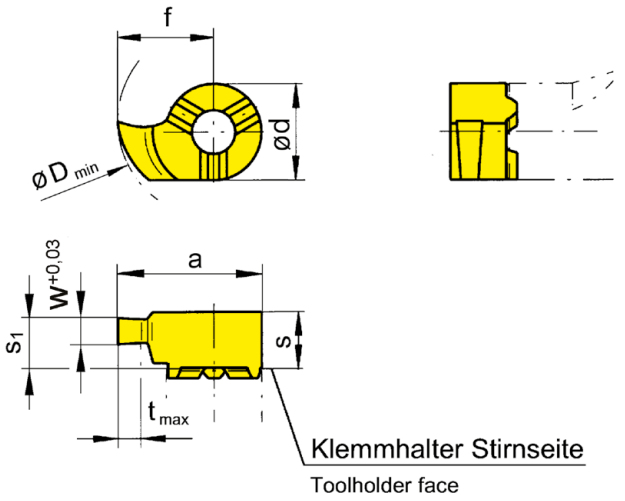
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LHC114...	**4.12T15EP**	**T15PQ**

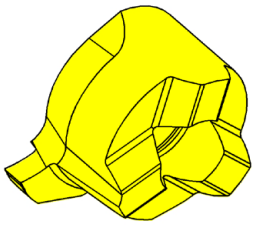
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	Nw	s	f	a	s_1	d	t_{max}	D_{min}	HIS		EG55	TN35
R114.0070.00	0,74	0,7	5,5	9	13,5	5,3	9	1,2	14	311090R		▲	▲
R114.0080.00	0,84	0,8	5,5	9	13,5	5,3	9	1,3	14	311090R		▲	▲
R114.0090.00	0,94	0,9	5,5	9	13,5	5,3	9	1,5	14	311090R		▲	▲
L114.0070.00	0,74	0,7	5,5	9	13,5	5,3	9	1,2	14	311090L			▲
L114.0080.00	0,84	0,8	5,5	9	13,5	5,3	9	1,3	14	311090L		Δ	▲
L114.0090.00	0,94	0,9	5,5	9	13,5	5,3	9	1,5	14	311090L		▲	▲
											P	●	●
											M	o	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

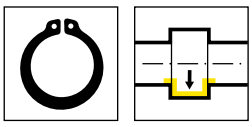
Zapfenausführung
not face cutting, limited depth of cut

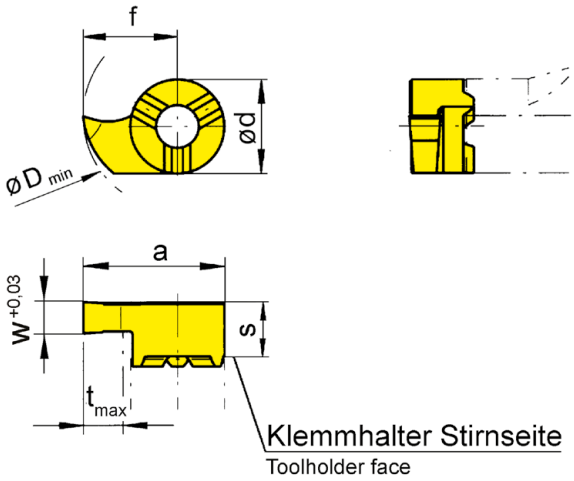
J

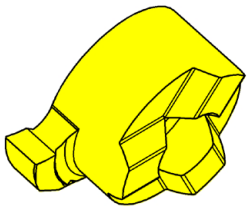
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

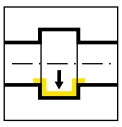
Bestellnummer Part number	w	Nw	s	f	a	d	t_{max}	D_{min}	HIS	EG55	TH35	TN35
R114.0110.00	1,19	1,1	5,3	9	13,5	9	4	14	311090R	▲	▲	▲
R114.0130.00	1,39	1,3	5,3	9	13,5	9	4	14	311090R	▲	▲	▲
R114.0160.00	1,69	1,6	5,3	9	13,5	9	4	14	311090R	▲	▲	▲
L114.0110.00	1,19	1,1	5,3	9	13,5	9	4	14	311090L	▲	▲	▲
L114.0130.00	1,39	1,3	5,3	9	13,5	9	4	14	311090L	▲	▲	▲
L114.0160.00	1,69	1,6	5,3	9	13,5	9	4	14	311090L		▲	▲
									P	●	●	●
									M	o	●	●
									K	o	●	●
									N	-	●	●
									S	-	●	●
									H	-	-	-

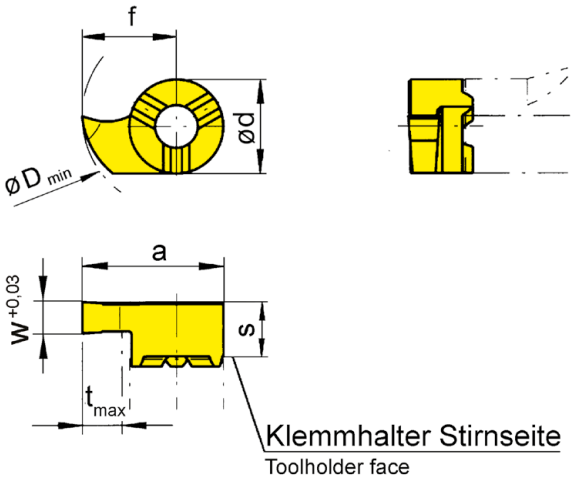
J

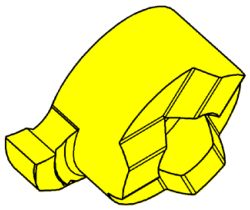
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	d	t_{max}	D_{min}	HIS	MG12	EG55	TH35	TN35
R114.0150.00	1,5	5,3	9	13,5	9	4	14	311090R	▲	▲	▲	▲
R114.0200.00	2	5,3	9	13,5	9	4	14	311090R	▲	▲	▲	▲
R114.0250.00	2,5	5,3	9	13,5	9	4	14	311090R	▲	▲	▲	▲
R114.0300.00	3	5,3	9	13,5	9	4	14	311090R	▲	▲	▲	▲
L114.0150.00	1,5	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲
L114.0200.00	2	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲
L114.0250.00	2,5	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲
L114.0300.00	3	5,3	9	13,5	9	4	14	311090L	▲	▲	▲	▲
								P	o	●	●	●
								M	-	o	●	●
								K	-	o	●	●
								N	-	-	●	●
								S	-	-	●	●
								H	-	-	-	-

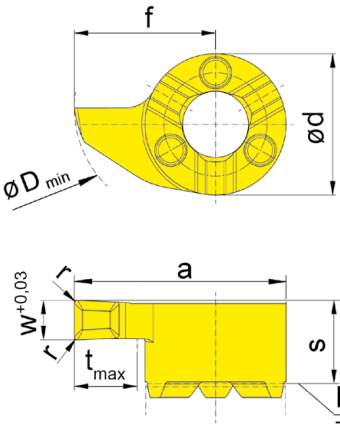
J

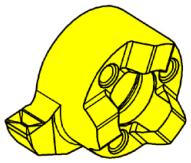
Schneidplatte
Insert

S114

Ø ≥ 14 mm

.D





R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

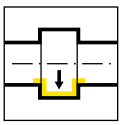
▲ ab Lager
on stock

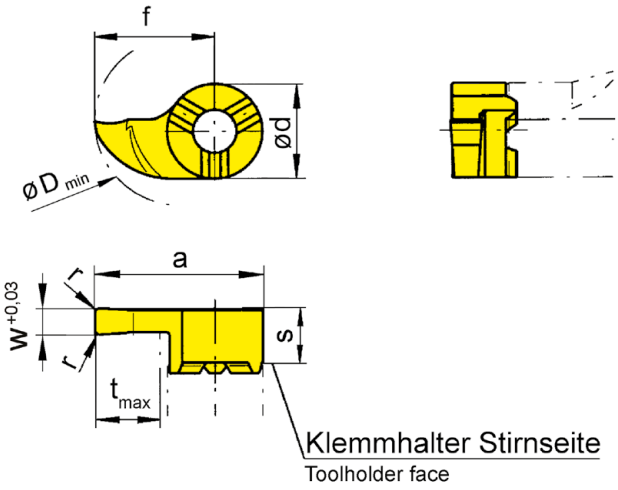
Δ 4 Wochen
4 weeks

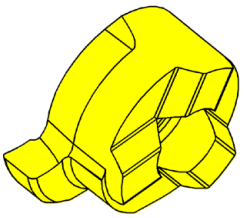
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TF45	TH35	TN35
RS114.0200.D2	2	5,3	9	13,5	0,2	9	4	14	311090R	▲	▲	▲	▲
RS114.0250.D2	2,5	5,3	9	13,5	0,2	9	4	14	311090R	▲	▲	▲	▲
RS114.0300.D2	3	5,3	9	13,5	0,2	9	4	14	311090R	▲	▲	▲	▲
LS114.0200.D2	2	5,3	9	13,5	0,2	9	4	14	311090L	▲	Δ	▲	▲
LS114.0250.D2	2,5	5,3	9	13,5	0,2	9	4	14	311090L	▲	Δ	▲	▲
LS114.0300.D2	3	5,3	9	13,5	0,2	9	4	14	311090L	▲	▲	▲	▲

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

J







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

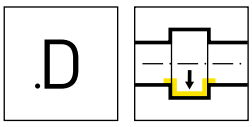
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35	TI25	TN35
R114.0150.1.02	1,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲		▲
R114.0200.1.02	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲	▲	▲
R114.0250.1.02	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲		▲
R114.0300.1.02	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲		▲
L114.0150.1.02	1,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲		▲
L114.0200.1.02	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲	Δ	▲
L114.0250.1.02	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲		▲
L114.0300.1.02	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲		▲
									P	●	●	●	●
									M	o	●	●	●
									K	o	●	●	●
									N	-	●	●	●
									S	-	●	●	●
									H	-	-	-	-

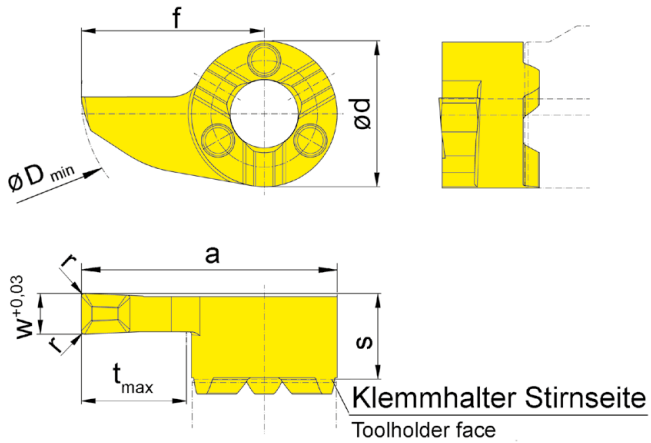
J

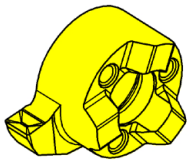
Schneidplatte
Insert

S114

Ø ≥ 16,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
RS114.0200.1.D2	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
RS114.0250.1.D2	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
RS114.0300.1.D2	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090R	▲	▲
LS114.0200.1.D2	2	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲
LS114.0250.1.D2	2,5	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	Δ	▲
LS114.0300.1.D2	3	5,3	11,3	15,8	0,2	9	6,5	16,5	311090L	▲	▲

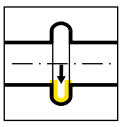
P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

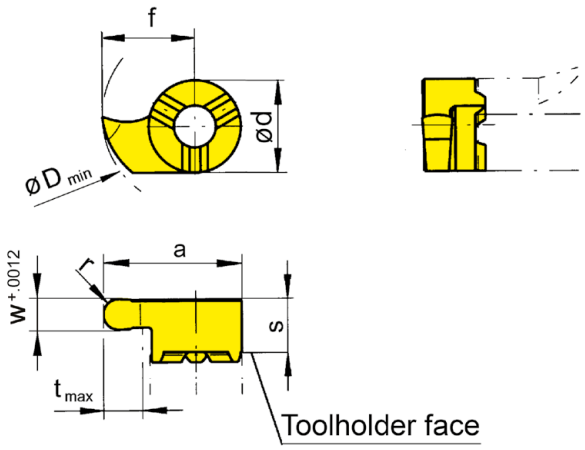
J

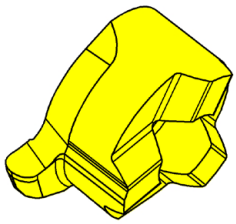
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

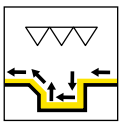
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35	TI25	TN35
R114.0004.08	0,8	5,3	9	13,5	0,4	9	4	14	311090R				▲	
R114.0006.12	1,2	5,3	9	13,5	0,6	9	4	14	311090R		▲	▲		▲
R114.0009.18	1,8	5,3	9	13,5	0,9	9	4	14	311090R		▲	▲		▲
R114.0010.20	2	5,3	9	13,5	1	9	4	14	311090R		▲	▲		▲
R114.0011.22	2,2	5,3	9	13,5	1,1	9	4	14	311090R		▲	▲		▲
R114.0015.30	3	5,3	9	13,5	1,5	9	4	14	311090R		▲	▲		▲
R114.0020.40	4	5,3	9	13,5	2	9	4	14	311090R		▲	▲		
L114.0004.08	0,8	5,3	9	13,5	0,4	9	4	14	311090L				▲	
L114.0006.12	1,2	5,3	9	13,5	0,6	9	4	14	311090L		▲	▲		▲
L114.0009.18	1,8	5,3	9	13,5	0,9	9	4	14	311090L		▲	▲		▲
L114.0010.20	2	5,3	9	13,5	1	9	4	14	311090L		▲	▲		▲
L114.0011.22	2,2	5,3	9	13,5	1,1	9	4	14	311090L		Δ	▲		▲
L114.0015.30	3	5,3	9	13,5	1,5	9	4	14	311090L		▲	▲		▲
L114.0020.40	4	5,3	9	13,5	2	9	4	14	311090L		Δ	Δ		
										P	●	●	●	●
										M	o	●	●	●
										K	o	●	●	●
										N	-	●	●	●
										S	-	●	●	●
										H	-	-	-	-

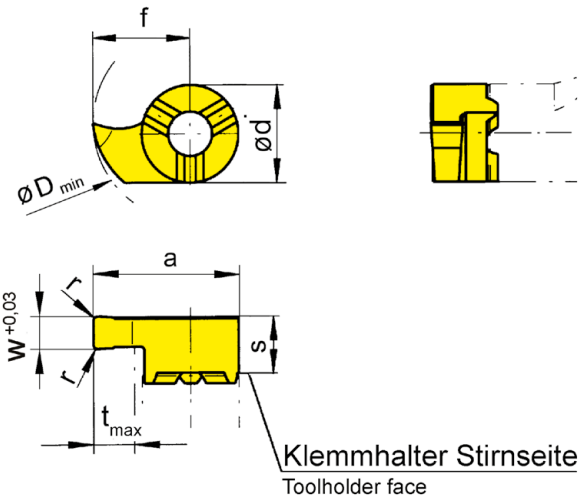
J

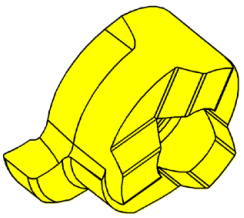
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

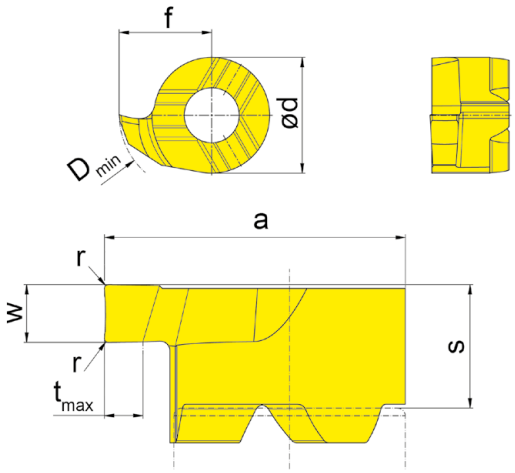
Δ 4 Wochen
4 weeks

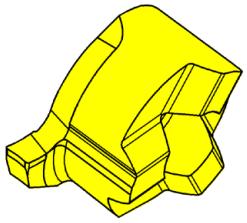
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS
R114.0200.02	2	5,3	9	13,5	0,2	9	4	14	311090R
L114.0200.02	2	5,3	9	13,5	0,2	9	4	14	311090L

	MG12	EG55	TH35	TI25	TN35
	▲	▲	▲	▲	▲
	▲	▲	▲	▲	▲
P	o	●	●	●	●
M	-	o	●	●	●
K	-	o	●	●	●
N	-	-	●	●	●
S	-	-	●	●	●
H	-	-	-	-	-

J

.FB





R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG35
R114.FB10.01	1	5,3	9	13,5	0,1	9	4	14	311090R	▲
R114.FB15.01	1,5	5,3	9	13,5	0,1	9	4	14	311090R	▲
L114.FB10.01	1	5,3	9	13,5	0,1	9	4	14	311090L	▲
L114.FB15.01	1,5	5,3	9	13,5	0,1	9	4	14	311090L	▲

P	●
M	●
K	o
N	-
S	-
H	-

Berechnung der kleinstmöglichen Nutbreite w_x
Calculation of the smallest possible width of groove w_x

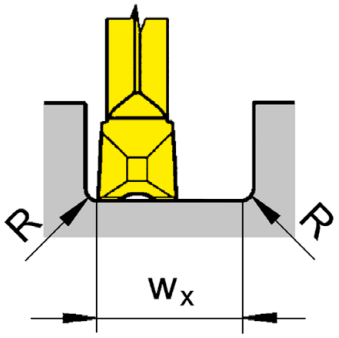
Beispiel R114.FB10.01
Example

w_x = 2 x Schneidbreite w - 2 x Eckenradius Schneidplatte R

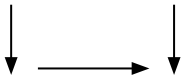
w_x = 2 x Width of insert w - 2 x Corner radius insert R

w_x = 2 x 1 mm - 2 x 0,1 mm

w_x = 1,8 mm



Bearbeitungsablauf
Processing flow

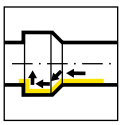


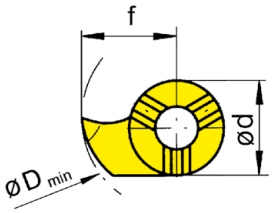
J

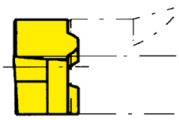
Schneidplatte
Insert

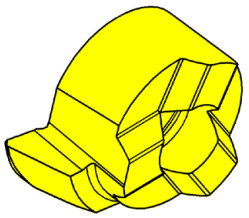
114

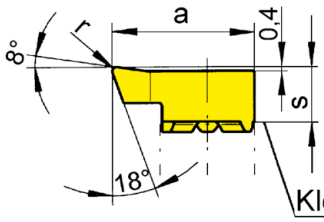
Ø ≥ 13,8 mm











Klemmhalter Stirnseite
Toolholder face

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

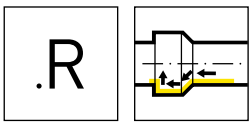
HM-Sorten
Carbide grades

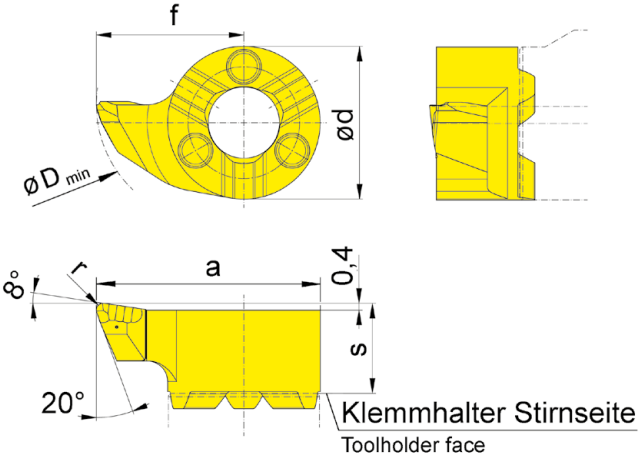
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		MG12	EG55	TH35	TI25	TN35
R114.1890.02	5,3	8,7	13,2	0,2	9	13,8	311090R		▲	▲	▲	Δ	▲
L114.1890.02	5,3	8,7	13,2	0,2	9	13,8	311090L		▲	▲	▲	Δ	▲
								P	o	●	●	●	●
								M	-	o	●	●	●
								K	-	o	●	●	●
								N	-	-	●	●	●
								S	-	-	●	●	●
								H	-	-	-	-	-

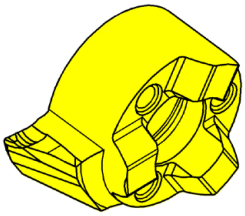
J

Schneidplatte
Insert

S114 Ø ≥ 13,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

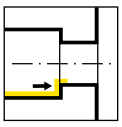
▲ ab Lager
on stock

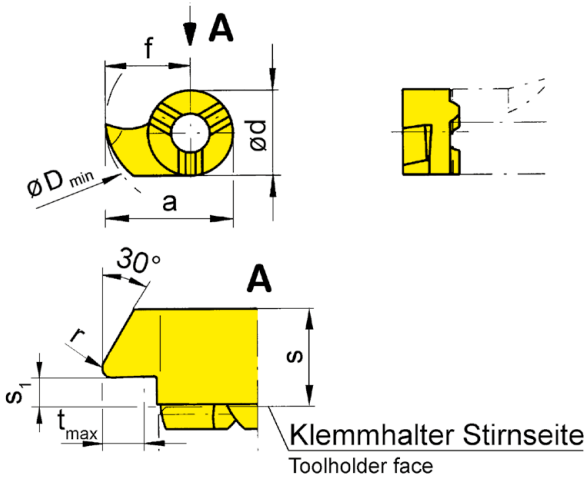
HM-Sorten
Carbide grades

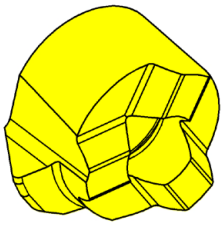
Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG55	TH35
RS114.1890.R2	5,3	8,7	13,2	0,2	9	13,8	311090R		▲	▲
RS114.1890.R4	5,3	8,7	13,2	0,4	9	13,8	311090R		▲	▲
LS114.1890.R2	5,3	8,7	13,2	0,2	9	13,8	311090L		▲	▲
LS114.1890.R4	5,3	8,7	13,2	0,4	9	13,8	311090L		▲	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

J







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

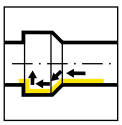
Bestellnummer Part number	s	f	r	s_1	d	t_{max}	D_{min}	HIS		EG55	TH35	TN35
R114.3090.02	5,5	8,7	0,2	2,4	9	3,5	13,8	311090R		▲	▲	▲
L114.3090.02	5,5	8,7	0,2	2,4	9	3,5	13,8	311090L		▲	▲	▲
									P	●	●	●
									M	o	●	●
									K	o	●	●
									N	-	●	●
									S	-	●	●
									H	-	-	-

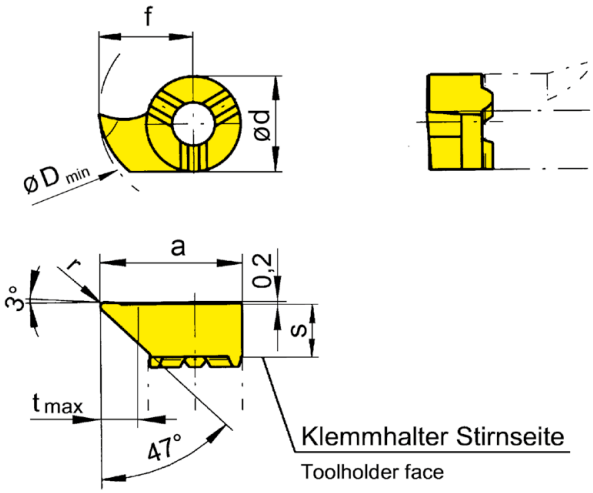
J

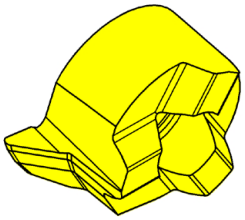
Schneidplatte
Insert

114

Ø ≥ 13,8 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

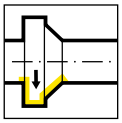
Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35	TI25	TN35
R114.4787.02	5,3	8,7	13,2	0,2	9	3	13,8	311090R	▲	▲	Δ	▲
R114.4787.04	5,3	8,7	13,2	0,4	9	3	13,8	311090R	▲	▲		
R114.4710.02	5,3	11	15,5	0,2	9	5	16	311090R	▲	▲		▲
L114.4787.02	5,3	8,7	13,2	0,2	9	3	13,8	311090L	▲	▲		▲
L114.4787.04	5,3	8,7	13,2	0,4	9	3	13,8	311090L	▲	▲		
L114.4710.02	5,3	11	15,5	0,2	9	5	16	311090L	Δ	▲		▲
									P	●	●	●	●
									M	o	●	●	●
									K	o	●	●	●
									N	-	●	●	●
									S	-	●	●	●
									H	-	-	-	-

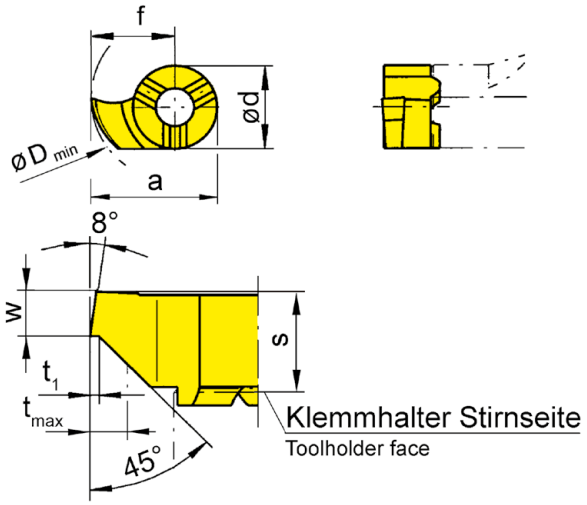
J

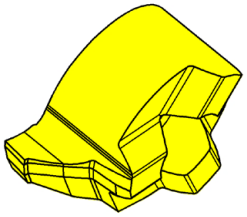
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

HM-Sorten
Carbide grades

Bestellnummer Part number	w	s	f	a	d	t_{max}	t_1	D_{min}	HIS
R114.0815.45	1,5	5,3	9	13,5	9	1,5	0,2	14	311090R
L114.0815.45	1,5	5,3	9	13,5	9	1,5	0,2	14	311090L

	MG12	EG55	TI25	TN35
	▲ Δ	▲ ▲	▲ ▲	Δ
P	o	●	●	●
M	-	o	●	●
K	-	o	●	●
N	-	-	●	●
S	-	-	●	●
H	-	-	-	-

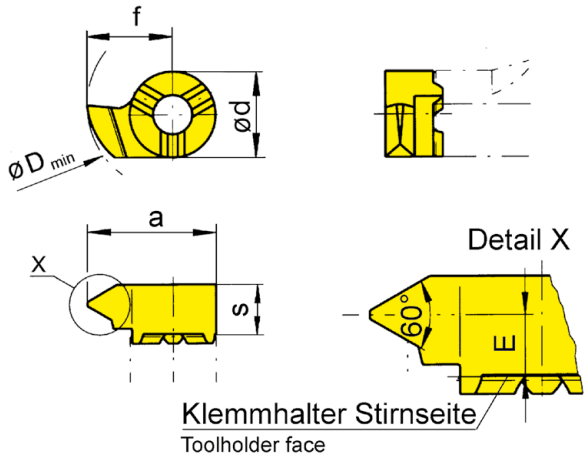
J

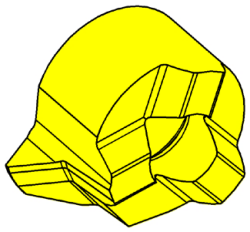
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	EG55	TH35	TN35
R114.0205.01	0,5	0,75	4,8	9	9	9	5,5	14	311090R	▲	▲	▲
R114.1020.01	2		4,2	9	13,5	9	5,5	14	311090R	▲	▲	▲
R114.0510.01	1	1,25	4,7	9	13,5	9	5,5	14	311090R	▲	▲	▲
R114.1325.01	2,5		4,2	9	13,5	9	5,5	14	311090R	▲	▲	▲
R114.0815.01	1,5	1,75	4,5	9	13,5	9	5,5	14	311090R	▲	▲	▲
L114.0205.01	0,5	0,75	4,8	9	9	9	5,5	14	311090L	Δ	Δ	Δ
L114.1020.01	2		4,2	9	13,5	9	5,5	14	311090L	Δ	Δ	Δ
L114.0510.01	1	1,25	4,7	9	13,5	9	5,5	14	311090L	Δ	Δ	▲
L114.1325.01	2,5		4,2	9	13,5	9	5,5	14	311090L	Δ	▲	Δ
L114.0815.01	1,5	1,75	4,5	9	13,5	9	5,5	14	311090L	▲	▲	▲

	EG55	TH35	TN35
P	●	●	●
M	o	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

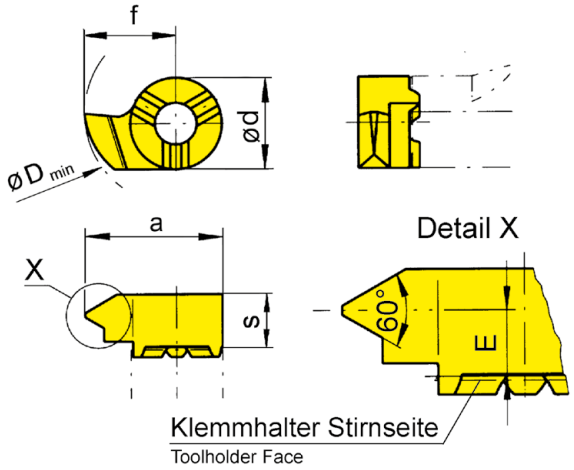
J

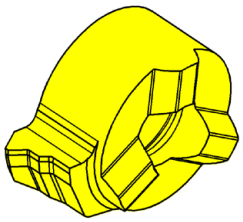
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

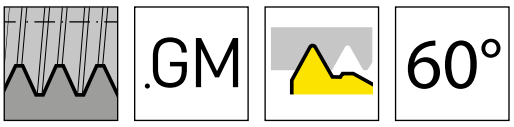
Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	HM-Sorten Carbide grades EG55	 TN35
R114.0510.02	1	4,7	9	13,5	9	5,5	14	311090R	▲	▲
R114.0815.02	1,5	4,5	9	13,5	9	5,5	14	311090R	▲	▲
R114.1020.02	2	4,2	9	13,5	9	5,5	14	311090R	▲	▲
R114.1325.02	2,5	4,2	9	13,5	9	5,5	14	311090R	▲	▲
L114.0510.02	1	4,7	9	13,5	9	5,5	14	311090L	Δ	▲
L114.0815.02	1,5	4,5	9	13,5	9	5,5	14	311090L	Δ	▲
L114.1020.02	2	4,2	9	13,5	9	5,5	14	311090L	Δ	▲
L114.1325.02	2,5	4,2	9	13,5	9	5,5	14	311090L	Δ	▲
P									●	●
M									o	●
K									o	●
N									-	●
S									-	●
H									-	-

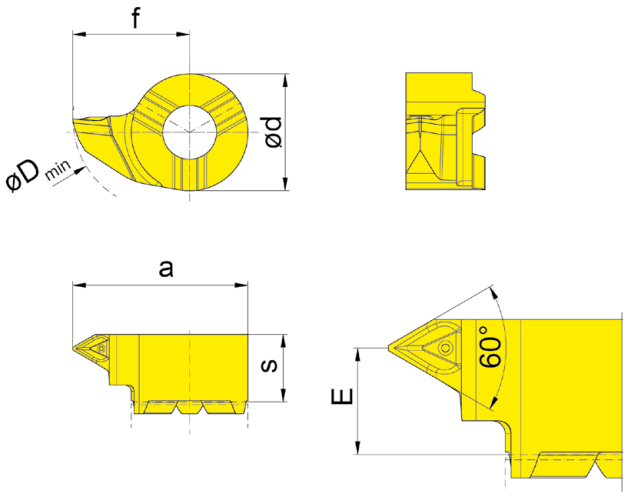
J

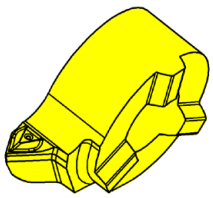
Schneidplatte
Insert

S114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	EG55
RS114.0205.GM1	0,5	0,75	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.0510.GM1	1	1,25	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.0815.GM1	1,5	1,75	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.1020.GM1	2	2	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.1325.GM1	2,5	2,5	4,1	9	13,5	9	5,2	14	311090R	▲
LS114.0205.GM1	0,5	0,75	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.0510.GM1	1	1,25	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.0815.GM1	1,5	1,75	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.1020.GM1	2	2	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.1325.GM1	2,5	2,5	4,1	9	13,5	9	5,2	14	311090L	▲

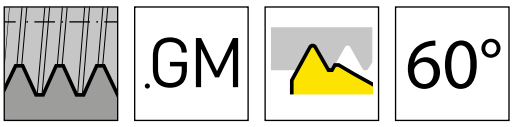
P	●
M	o
K	o
N	-
S	-
H	-

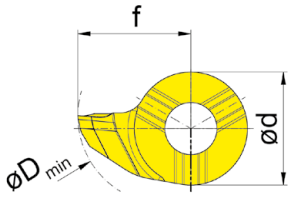
J

Schneidplatte
Insert

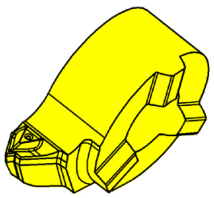
S114

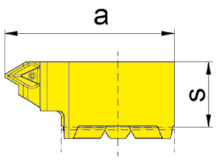
Ø ≥ 14 mm

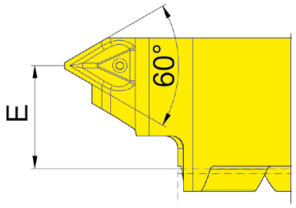












R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55
RS114.0510.GM2	1	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.0815.GM2	1,5	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.1020.GM2	2	4,1	9	13,5	9	5,2	14	311090R	▲
RS114.1325.GM2	2,5	4,1	9	13,5	9	5,2	14	311090R	▲
LS114.0510.GM2	1	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.0815.GM2	1,5	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.1020.GM2	2	4,1	9	13,5	9	5,2	14	311090L	▲
LS114.1325.GM2	2,5	4,1	9	13,5	9	5,2	14	311090L	▲

P	●
M	o
K	o
N	-
S	-
H	-

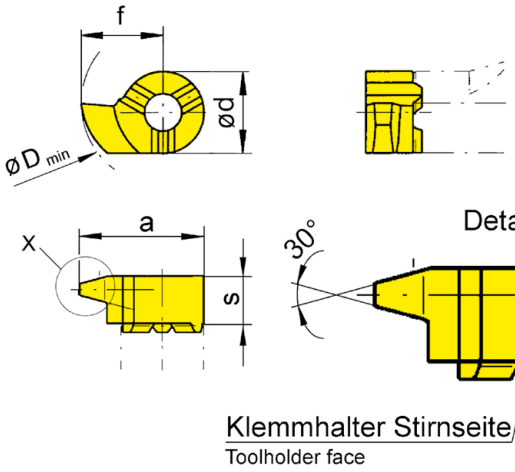
J

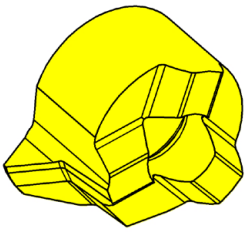
Schneidplatte
Insert

114

Ø ≥ 14 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

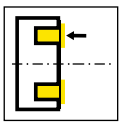
Δ 4 Wochen
4 weeks

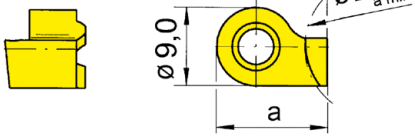
Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55	TN35
R114.1730.01	3	4,3	9	13,5	9	5,5	14	311090R		Δ
R114.2240.01	4	4	9	13,5	9	5,5	14	311090R	▲	▲
R114.2750.01	5	3,55	9	13,5	9	5,5	14	311090R	▲	▲
L114.2240.01	4	4	9	13,5	9	5,5	14	311090L	Δ	▲
L114.2750.01	5	3,55	9	13,5	9	5,5	14	311090L	Δ	▲
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

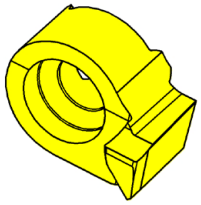
J

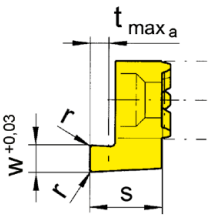
Schneidplatte
Insert

114









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

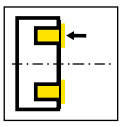
Δ 4 Wochen
4 weeks

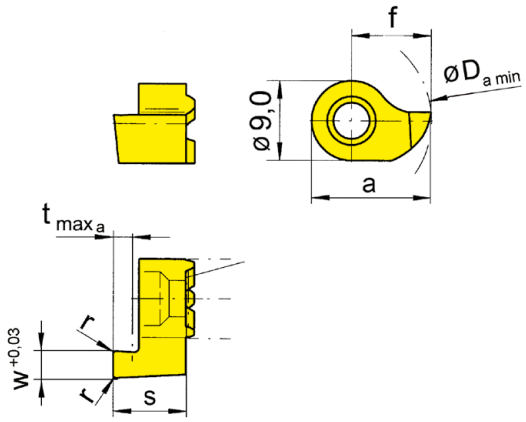
Bestellnummer Part number	w	s	f	a	r	$t_{max\ a}$	$D_{a\ min}$	HIS		EG55	TN35
R114.1205.00	0,5	8,3	7,5	12	-	1	12	311090R		Δ	▲
R114.1210.00	1	8,3	7,5	12	-	1,5	12	311090R		▲	▲
R114.1215.00	1,5	8,3	7,5	12	0,2	2,5	12	311090R		▲	▲
R114.1220.00	2	8,3	7,5	12	0,2	3	12	311090R		▲	▲
R114.1225.00	2,5	8,3	7,5	12	0,2	3	12	311090R		▲	▲
R114.1230.00	3	8,3	7,5	12	0,2	3	12	311090R		▲	▲
R114.1220.5.00	2	10,8	7,5	12	0,2	5	12	311090R		▲	▲
R114.1225.5.00	2,5	10,8	7,5	12	0,2	5	12	311090R		▲	▲
R114.1230.6.00	3	11,8	7,5	12	0,2	6	12	311090R		▲	▲
L114.1205.00	0,5	8,3	7,5	12	-	1	12	311090L		Δ	▲
L114.1210.00	1	8,3	7,5	12	-	1,5	12	311090L		▲	▲
L114.1215.00	1,5	8,3	7,5	12	0,2	2,5	12	311090L		▲	▲
L114.1220.00	2	8,3	7,5	12	0,2	3	12	311090L		▲	▲
L114.1225.00	2,5	8,3	7,5	12	0,2	3	12	311090L		▲	▲
L114.1230.00	3	8,3	7,5	12	0,2	3	12	311090L		▲	▲
L114.1220.5.00	2	10,8	7,5	12	0,2	5	12	311090L		▲	▲
L114.1225.5.00	2,5	10,8	7,5	12	0,2	5	12	311090L		▲	▲
L114.1230.6.00	3	11,8	7,5	12	0,2	6	12	311090L		▲	▲
									P	●	●
									M	o	●
									K	o	●
									N	-	●
									S	-	●
									H	-	-

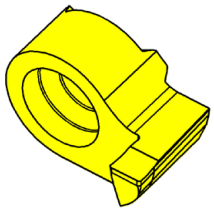
Bearbeitung **HINTER** der Drehmitte!
Machining BEHIND centre line

Ausführung R = Spindel linksdrehend! Bei Verwendung der Axialstechplatte Typ 114 mit Klemmhalter Typ B114 verlängern sich die Haltermaße l1 und l2 um 3,0 / 5,5 oder 6,5 mm.
R = rotation anti-clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by 3,0 / 5,5 or 6,5 mm.

J







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	$t_{max\ a}$	$D_{a\ min}$	HIS	MG12	EG55	TF45	TN35
R114.1410.00	1	8,3	9	13,5	-	1,5	14	311090R	Δ	▲		▲
R114.1415.00	1,5	8,3	9	13,5	0,2	2,5	14	311090R		▲		▲
R114.1420.00	2	8,3	9	13,5	0,2	3	14	311090R		▲		▲
R114.1425.00	2,5	8,3	9	13,5	0,2	3	14	311090R		▲		▲
R114.1430.00	3	8,3	9	13,5	0,2	3	14	311090R	▲	▲		▲
R114.1420.5.00	2	10,8	9	13,5	0,2	5	14	311090R		▲		▲
R114.1425.5.00	2,5	10,8	9	13,5	0,2	5	14	311090R		▲		▲
R114.1430.6.00	3	11,8	9	13,5	0,2	6	14	311090R		▲		▲
L114.1410.00	1	8,3	9	13,5	-	1,5	14	311090L	Δ	▲		▲
L114.1415.00	1,5	8,3	9	13,5	0,2	2,5	14	311090L		▲		▲
L114.1420.00	2	8,3	9	13,5	0,2	3	14	311090L		▲		▲
L114.1425.00	2,5	8,3	9	13,5	0,2	3	14	311090L		▲		▲
L114.1430.00	3	8,3	9	13,5	0,2	3	14	311090L	Δ			▲
L114.1420.5.00	2	10,8	9	13,5	0,2	5	14	311090L		▲		▲
L114.1425.5.00	2,5	10,8	9	13,5	0,2	5	14	311090L		▲		▲
L114.1430.6.00	3	11,8	9	13,5	0,2	6	14	311090L		▲		▲

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

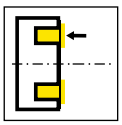
Bearbeitung **VOR** der Drehmitte!
Machining IN-FRONT of centre line

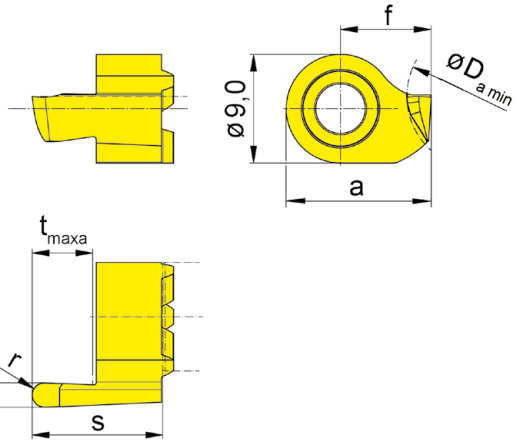
Ausführung R = Spindel rechtsdrehend! Bei Verwendung der Axialstechplatte Typ 114 mit Klemmhalter Typ B114 verlängern sich die Haltermaße l1 und l2 um 3,0 / 5,5 oder 6,5 mm.
R = rotation clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by 3,0 / 5,5 or 6,5 mm.

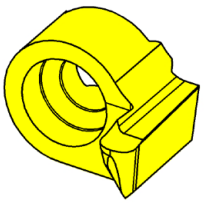
J

Schneidplatte
Insert

114







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

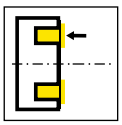
Bestellnummer Part number	w	s	f	a	r	$t_{max\ a}$	$D_{a\ min}$	HIS	EG55	TN35
R114.1220.5.10	2	10,8	7,5	12	1	5	12	311090R	▲	▲
R114.1225.5.12	2,5	10,8	7,5	12	1,25	5	12	311090R	▲	▲
R114.1230.6.15	3	11,8	7,5	12	1,5	6	12	311090R	▲	▲
L114.1220.5.10	2	10,8	7,5	12	1	5	12	311090L	▲	▲
L114.1225.5.12	2,5	10,8	7,5	12	1,25	5	12	311090L	▲	▲
L114.1230.6.15	3	11,8	7,5	12	1,5	6	12	311090L	▲	▲

P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

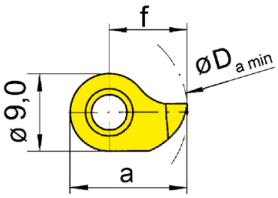
Vollradius Bearbeitung **HINTER** der Drehmitte!
Full radius Machining BEHIND centre line

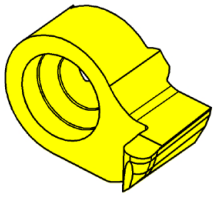
Ausführung R = Spindel linksdrehend! Bei Verwendung der Axialstechplatte Typ 114 mit Klemmhalter Typ B114 verlängern sich die Haltermaße l1 und l2 um 5,5 oder 6,5 mm.
R = rotation anti-clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by 5,5 mm or 6,5 mm.

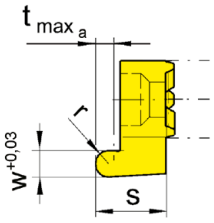
J











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	a	r	$t_{max\ a}$	$D_{a\ min}$	HIS	EG55	TN35
R114.1410.05	1	8,3	9	13,5	0,5	1,5	14	311090R	▲	▲
R114.1416.08	1,6	8,3	9	13,5	0,8	2,5	14	311090R	▲	▲
R114.1420.10	2	8,3	9	13,5	1	3	14	311090R	▲	▲
R114.1425.12	2,5	8,3	9	13,5	1,25	3	14	311090R	▲	▲
R114.1430.15	3	8,3	9	13,5	1,5	3	14	311090R	▲	▲
L114.1410.05	1	8,3	9	13,5	0,5	1,5	14	311090L	▲	▲
L114.1416.08	1,6	8,3	9	13,5	0,8	2,5	14	311090L	▲	▲
L114.1420.10	2	8,3	9	13,5	1	3	14	311090L	▲	▲
L114.1425.12	2,5	8,3	9	13,5	1,25	3	14	311090L	▲	▲
L114.1430.15	3	8,3	9	13,5	1,5	3	14	311090L	Δ	▲

P	●	●
M	o	●
K	o	●
N	-	●
S	-	●
H	-	-

Vollradius Bearbeitung **VOR** der Drehmitte!
Full radius Machining IN-FRONT of centre line

Ausführung R = Spindel rechtsdrehend! Bei Verwendung der Axialstechplatte Typ 114 mit Klemmhalter Typ B114 verlängern sich die Haltermaße l1 und l2 um 3,0 mm.
R = rotation clockwise! Using the face grooving insert type 114 on toolholder type B114 the size l1 and l2 will be enlarged by 3,0 mm.

J

116

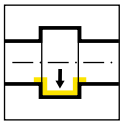


Klemmhalter und Schneidplatten

Toolholder and Inserts

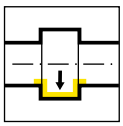
K

Klemmhalter
Toolholder
B116



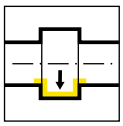
Seite/Page
322-323

Kurzklemmhalter
Cartridge
145

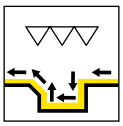


Seite/Page
324

Schneidplatte
Insert
116/S116



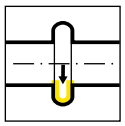
Seite/Page
325-327



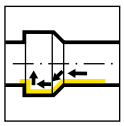
Seite/Page
330



Seite/Page
328



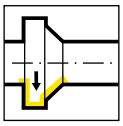
Seite/Page
329



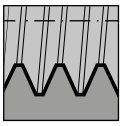
Seite/Page
331, 333



Seite/Page
332



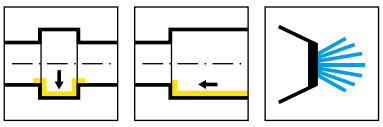
Seite/Page
334

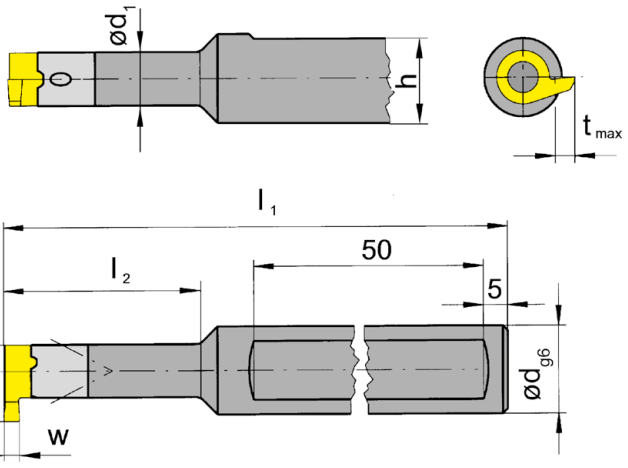


Seite/Page
335-340

Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0											•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•							•		
Bohrung-Drehen Boring and Profiling	•											

K





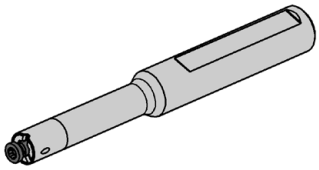


Abbildung = rechtsschneidend
Picture = right hand cutting version

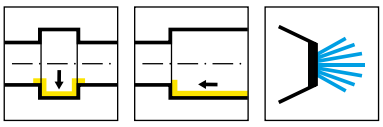
Bestellnummer Part number	d	l_1	l_2	h	d_1	HWS
B116.0012.01	12	130	40	11	11	116110R • 116110L
B116.0012.02	12	130	56	11	11	116110R • 116110L
B116.0012.03	12	150	80	11	11	116110R • 116110L
B116.0016.01	16	130	40	15	11	116110R • 116110L
B116.0016.02	16	130	56	15	11	116110R • 116110L
B116.0016.03	16	150	80	15	11	116110R • 116110L

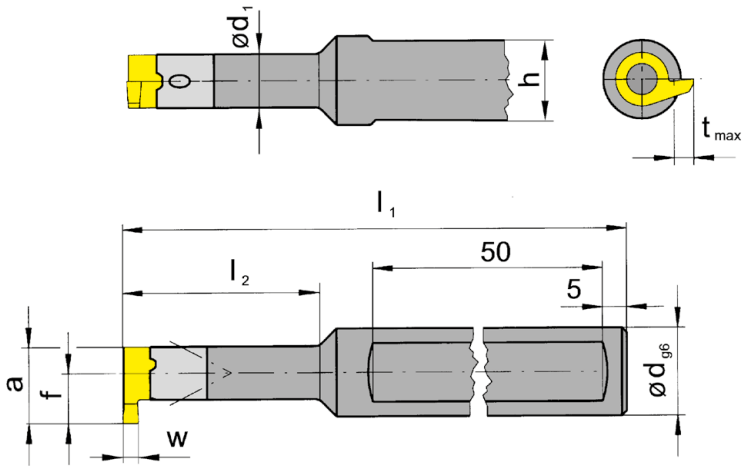
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

K

Ersatzteile
Spare Parts

Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B116...	**5.13T20EP**	**T20PQ**





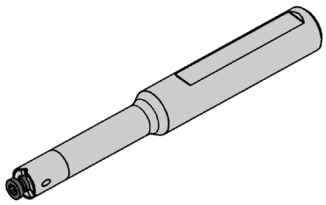


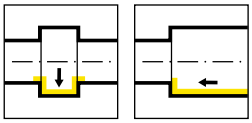
Abbildung = rechtsschneidend
Picture = right hand cutting version

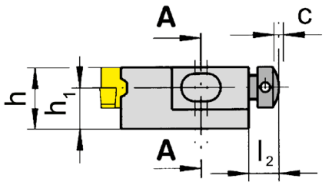
Bestellnummer Part number	d	l_1	l_2	h	d_1	HWS
B116.0012.2.01	12	130	40	11	11	116110R • 116110L
B116.0012.2.02	12	130	56	11	11	116110R • 116110L
B116.0012.2.03	12	150	80	11	11	116110R • 116110L
B116.0016.2.01	16	130	40	14	11	116110R • 116110L
B116.0016.2.02	16	130	56	14	11	116110R • 116110L
B116.0016.2.03	16	150	80	14	11	116110R • 116110L

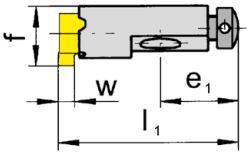
w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

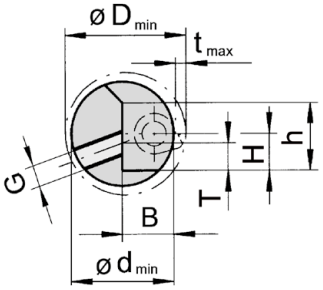
Ersatzteile
Spare Parts

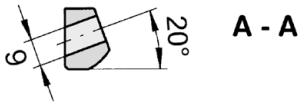
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
B116...	**5.13T20EP**	**T20PQ**

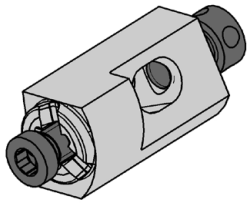












Bestellnummer Part number	h	l_1	h_1	f	E_1	l_2	C	D_{min}	t_{max}	HWS
L145.1012.00	17	36	10	16,7	13,8	5	1	32	4,3	116110R • 116110L

w siehe Schneidplatten
w see inserts

Einbaumaße Seating sizes	H	T	B	G	d_{min}	h
R/L145.0608.00	6	4,5	8,5	M4	16	10

K

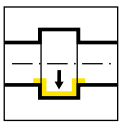
Ersatzteile
Spare Parts

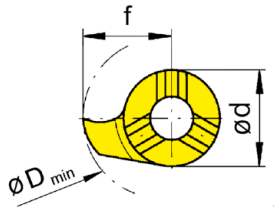
Kurzklemmhalter Cartridge	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
L145.1012.00	**5.13T20EP**	**T20PQ**

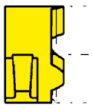
Schneidplatte
Insert

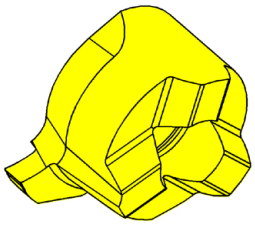
116

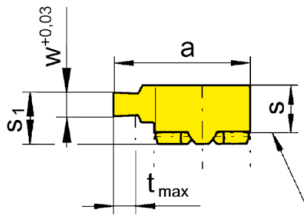
Ø ≥ 16 mm











Klemmhalter Stirnseite
Toolholder face

R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	Nw	s	f	a	s_1	d	t_{max}	D_{min}	HIS		EG55	TN35
R116.0070.00	0,74	0,7	5,5	10,2	15,7	5,3	11	1,2	16	116110R		▲	▲
R116.0080.00	0,84	0,8	5,5	10,2	15,7	5,3	11	1,3	16	116110R			▲
R116.0090.00	0,94	0,9	5,5	10,2	15,7	5,3	11	1,5	16	116110R		▲	▲
L116.0070.00	0,74	0,7	5,5	10,2	15,7	5,3	11	1,2	16	116110L		Δ	▲
L116.0080.00	0,84	0,8	5,5	10,2	15,7	5,3	11	1,3	16	116110L		Δ	Δ
L116.0090.00	0,94	0,9	5,5	10,2	15,7	5,3	11	1,5	16	116110L		Δ	▲
											P	●	●
											M	o	●
											K	o	●
											N	-	●
											S	-	●
											H	-	-

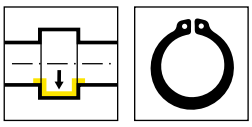
Zapfenausführung
not face cutting,
limited depth of cut

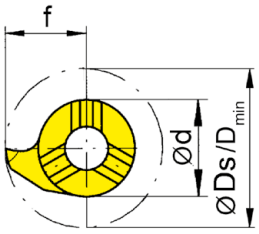
K

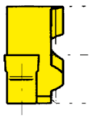
Schneidplatte
Insert

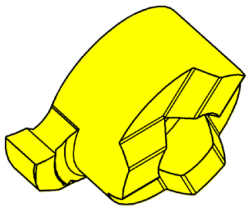
116

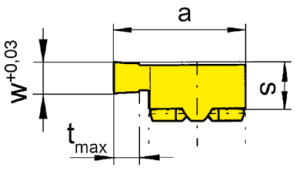
Ø ≥ 16 mm











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

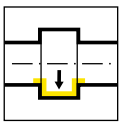
Bestellnummer Part number	w	Nw	s	f	Ds	a	d	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R116.0110.00	1,19	1,1	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R	▲	▲	▲	▲
R116.0130.00	1,39	1,3	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R	▲	▲	▲	▲
R116.0160.00	1,69	1,6	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R	▲	▲	▲	▲
L116.0110.00	1,19	1,1	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L	▲		▲	▲
L116.0130.00	1,39	1,3	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L	▲	▲	▲	▲
L116.0160.00	1,69	1,6	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L	▲	▲	▲	▲
												P	o	●	●	●
												M	-	o	●	●
												K	-	o	●	●
												N	-	-	●	●
												S	-	-	●	●
												H	-	-	-	-

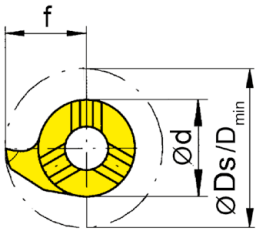
K

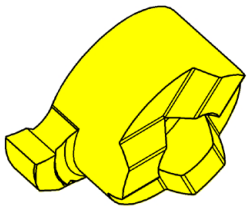
Schneidplatte
Insert

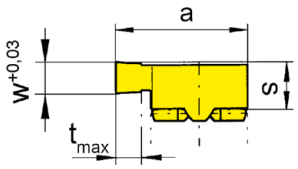
116

Ø ≥ 16 mm









R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	w	s	f	Ds	a	d	t_{max}	D_{min}	Z	HIS		MG12	EG55	TH35	TN35
R116.0200.00	2	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R		▲	▲	▲	▲
R116.0250.00	2,5	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R		▲	▲	▲	▲
R116.0300.00	3	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R		▲	▲	▲	▲
R116.0350.00	3,5	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R		▲	▲	▲	▲
R116.0400.00	4	5,3	10,2	20,4	15,7	11	4,3	16	1	116110R		▲	▲	▲	▲
L116.0200.00	2	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L		▲	▲	▲	▲
L116.0250.00	2,5	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L		▲		▲	▲
L116.0300.00	3	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L		▲	▲	▲	▲
L116.0350.00	3,5	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L		▲		▲	▲
L116.0400.00	4	5,3	10,2	20,4	15,7	11	4,3	16	1	116110L		▲		▲	▲
											P	o	●	●	●
											M	-	o	●	●
											K	-	o	●	●
											N	-	-	●	●
											S	-	-	●	●
											H	-	-	-	-

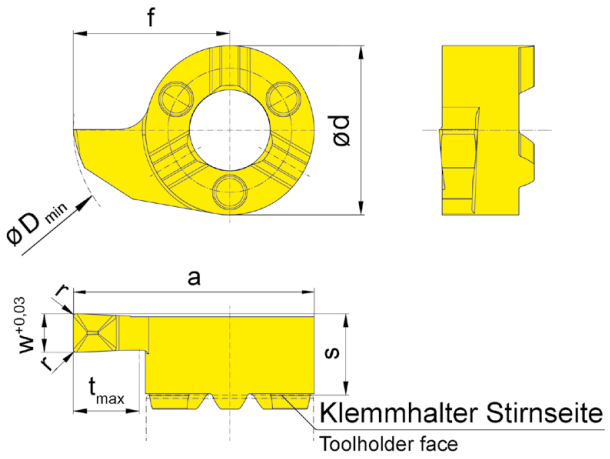
K

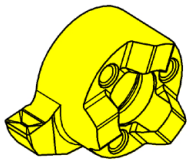
Schneidplatte
Insert

S116

Ø ≥ 16 mm

.D





R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

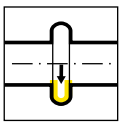
▲ ab Lager
on stock

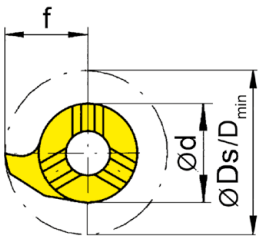
HM-Sorten
Carbide grades

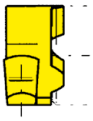
Δ 4 Wochen
4 weeks

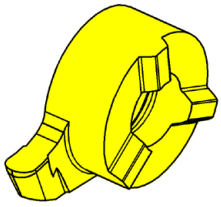
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
RS116.0200.D2	2	5,3	10,2	15,7	0,2	11	4,3	16	116110R		▲	▲
RS116.0250.D2	2,5	5,3	10,2	15,7	0,2	11	4,3	16	116110R		▲	▲
RS116.0300.D2	3	5,3	10,2	15,7	0,2	11	4,3	16	116110R		▲	▲
LS116.0200.D2	2	5,3	10,2	15,7	0,2	11	4,3	16	116110L			▲
LS116.0250.D2	2,5	5,3	10,2	15,7	0,2	11	4,3	16	116110L			▲
LS116.0300.D2	3	5,3	10,2	15,7	0,2	11	4,3	16	116110L		Δ	▲
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

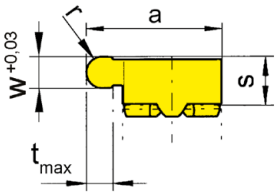
K











R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

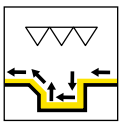
HM-Sorten
Carbide grades

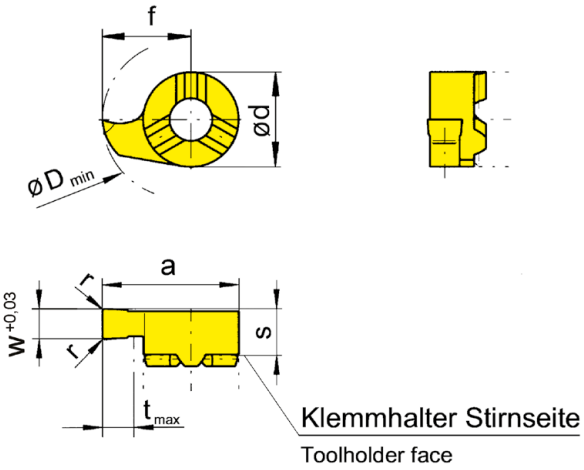
Bestellnummer Part number	w	s	f	Ds	a	r	d	t_{max}	D_{min}	Z	HIS	MG12	EG55	TH35	TN35
R116.0009.18	1,8	5,3	10,2	20,4	15,7	0,9	11	4,3	16	1	116110R	▲	▲	▲	▲
R116.0011.22	2,2	5,3	10,2	20,4	15,7	1,1	11	4,3	16	1	116110R	▲	▲	▲	▲
R116.0015.30	3	5,3	10,2	20,4	15,7	1,5	11	4,3	16	1	116110R	▲	▲	▲	▲
R116.0020.40	4	5,3	10,2	20,4	15,7	2	11	4,3	16	1	116110R	Δ	▲	▲	▲
L116.0009.18	1,8	5,3	10,2	20,4	15,7	0,9	11	4,3	16	1	116110L	Δ	▲	▲	▲
L116.0011.22	2,2	5,3	10,2	20,4	15,7	1,1	11	4,3	16	1	116110L	Δ	▲	▲	▲
L116.0015.30	3	5,3	10,2	20,4	15,7	1,5	11	4,3	16	1	116110L	Δ	▲	▲	▲
L116.0020.40	4	5,3	10,2	20,4	15,7	2	11	4,3	16	1	116110L	Δ		▲	▲
												P	o	●	●	●
												M	-	o	●	●
												K	-	o	●	●
												N	-	-	●	●
												S	-	-	●	●
												H	-	-	-	-

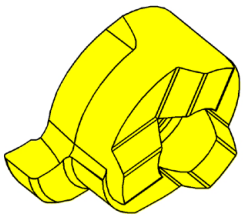
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

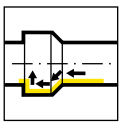
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35	TN35
R116.0200.02	2	5,3	10,2	15,7	0,2	11	4,3	16	116110R		▲	▲	▲
L116.0200.02	2	5,3	10,2	15,7	0,2	11	4,3	16	116110L		▲	▲	▲
										P	●	●	●
										M	o	●	●
										K	o	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

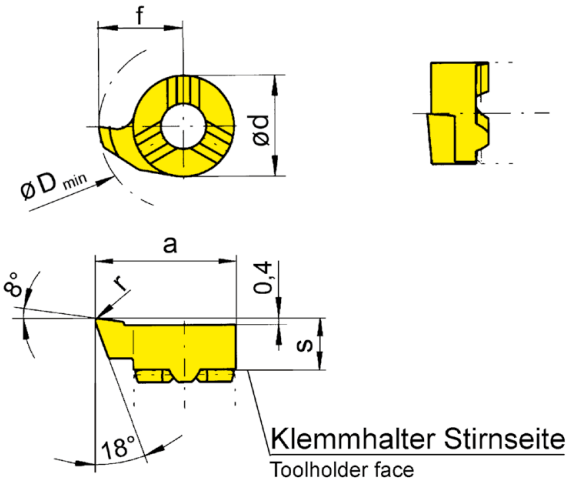
K

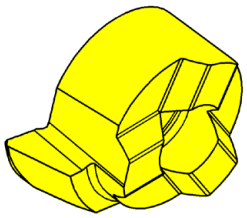
Schneidplatte
Insert

116

Ø ≥ 15,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG55	TH35	TN35
R116.1897.02	5,3	9,7	15,2	0,2	11	15,5	116110R		▲	▲	▲
L116.1897.02	5,3	9,7	15,2	0,2	11	15,5	116110L		▲	▲	▲
								P	●	●	●
								M	o	●	●
								K	o	●	●
								N	-	●	●
								S	-	●	●
								H	-	-	-

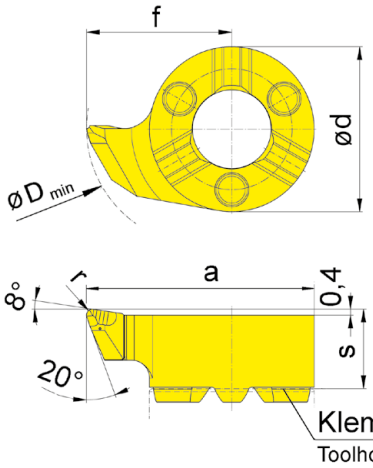
K

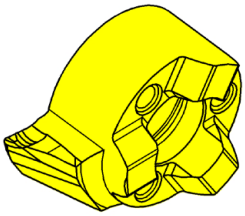
Schneidplatte
Insert

S116

Ø ≥ 15,5 mm

.R





R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

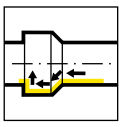
Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG55	TH35
RS116.1897.R2	5,3	9,7	15,2	0,2	11	15,5	116110R		▲	▲
RS116.1897.R4	5,3	9,7	15,2	0,4	11	15,5	116110R		▲	▲
LS116.1897.R2	5,3	9,7	15,2	0,2	11	15,5	116110L		▲	▲
LS116.1897.R4	5,3	9,7	15,2	0,4	11	15,5	116110L		▲	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

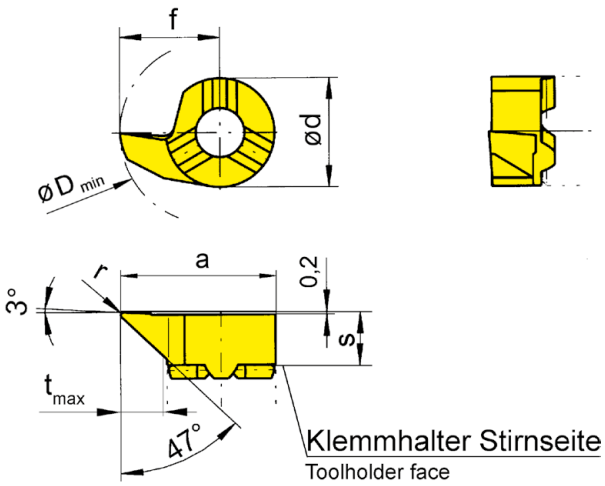
K

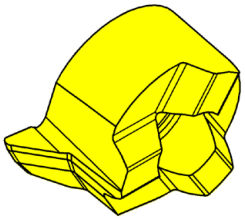
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

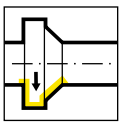
▲ ab Lager
on stock

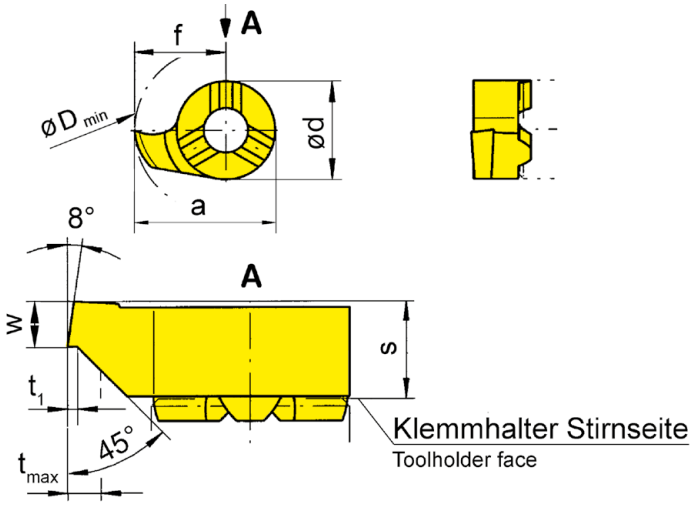
HM-Sorten
Carbide grades

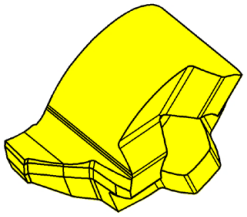
Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35	TN35
R116.4702.02	5,3	10,2	15,7	0,2	11	4,3	16	116110R		▲	▲	▲
R116.4702.04	5,3	10,2	15,7	0,4	11	4,3	16	116110R		▲	▲	
L116.4702.02	5,3	10,2	15,7	0,2	11	4,3	16	116110L		▲	▲	▲
L116.4702.04	5,3	10,2	15,7	0,4	11	4,3	16	116110L		▲	▲	
									P	●	●	●
									M	o	●	●
									K	o	●	●
									N	-	●	●
									S	-	●	●
									H	-	-	-

K







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

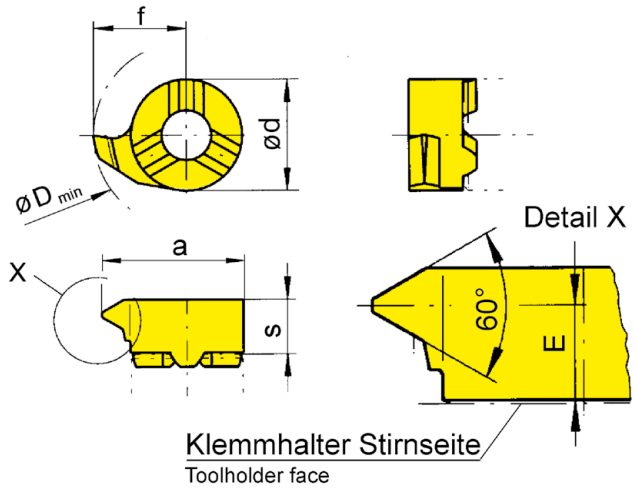
Bestellnummer Part number	w	s	f	a	d	t_{max}	t_1	D_{min}	HIS		MG12	EG55	TI25
R116.0815.45	1,5	5,3	10,2	15,7	11	1,5	0,2	16	116110R		▲	▲	▲
L116.0815.45	1,5	5,3	10,2	15,7	11	1,5	0,2	16	116110L		Δ	▲	▲
										P	o	●	●
										M	-	o	●
										K	-	o	●
										N	-	-	●
										S	-	-	●
										H	-	-	-

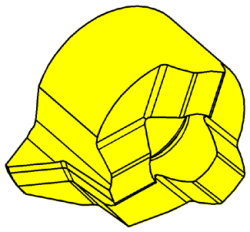
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS	EG55	TH35	TN35
R116.0510.01	1	1,25	4,7	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.0815.01	1,5	1,75	4,5	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.1020.01	2	2	4,3	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
R116.1325.01	2,5	2,5	4,2	10,2	15,7	11	5,5	16	116110R	▲	▲	▲
L116.0510.01	1	1,25	4,7	10,2	15,7	11	5,5	16	116110L	Δ		Δ
L116.0815.01	1,5	1,75	4,5	10,2	15,7	11	5,5	16	116110L	Δ	Δ	▲
L116.1020.01	2	2	4,3	10,2	15,7	11	5,5	16	116110L	Δ	Δ	▲
L116.1325.01	2,5	2,5	4,2	10,2	15,7	11	5,5	16	116110L	Δ	▲	▲
										P	●	●	●
										M	o	●	●
										K	o	●	●
										N	-	●	●
										S	-	●	●
										H	-	-	-

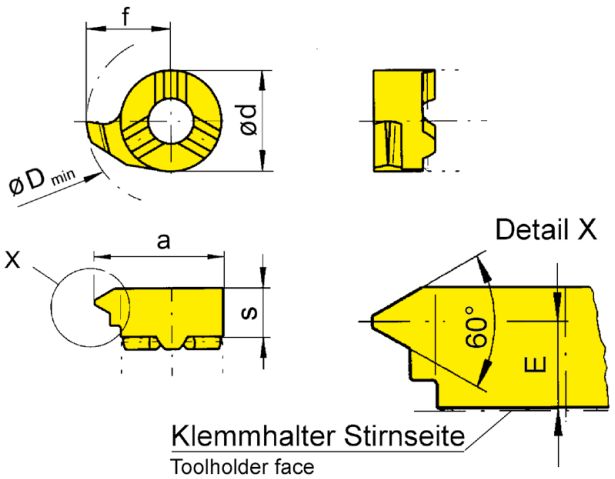
K

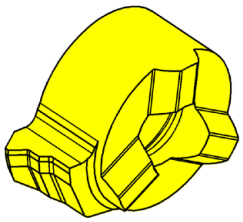
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55	TI25	TN35
R116.0510.02	1	4,7	10,2	15,7	11	5,5	16	116110R	▲	Δ	▲
R116.0815.02	1,5	4,5	10,2	15,7	11	5,5	16	116110R	▲	Δ	▲
R116.1020.02	2	4,3	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1325.02	2,5	4,2	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1630.02	3	4	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.1835.02	3,5	3,8	10,2	15,7	11	5,5	16	116110R	▲		▲
R116.2140.02	4	3,6	10,2	15,7	11	5,5	16	116110R	▲		▲
L116.0510.02	1	4,7	10,2	15,7	11	5,5	16	116110L	▲		Δ
L116.0815.02	1,5	4,5	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1020.02	2	4,3	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1325.02	2,5	4,2	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.1630.02	3	4	10,2	15,7	11	5,5	16	116110L	▲		▲
L116.1835.02	3,5	3,8	10,2	15,7	11	5,5	16	116110L	Δ		▲
L116.2140.02	4	3,6	10,2	15,7	11	5,5	16	116110L	Δ		Δ

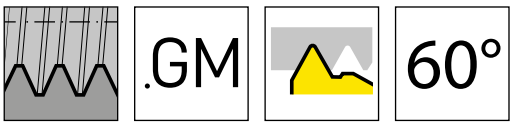
P	●	●	●
M	o	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

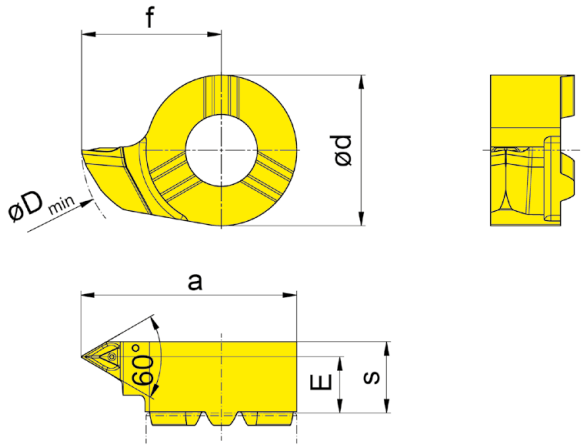
K

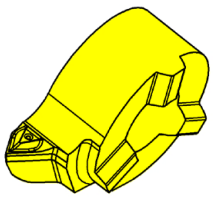
Schneidplatte
Insert

S116

Ø ≥ 16 mm







L = links wie gezeichnet
L = left hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

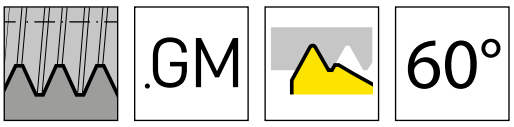
Bestellnummer Part number	P	P_{max}	E	f	a	d	s	D_{min}	HIS		EG55
RS116.0510.GM1	1	1,25	4,1	10,2	15,7	11	5,2	16	116110R		▲
RS116.0815.GM1	1,5	1,75	4,1	10,2	15,7	11	5,2	16	116110R		▲
RS116.1020.GM1	2	2	4,1	10,2	15,7	11	5,2	16	116110R		▲
RS116.1325.GM1	2,5	2,5	4,1	10,2	15,7	11	5,2	16	116110R		▲
LS116.0510.GM1	1	1,25	4,1	10,2	15,7	11	5,2	16	116110L		▲
LS116.0815.GM1	1,5	1,75	4,1	10,2	15,7	11	5,2	16	116110L		▲
LS116.1020.GM1	2	2	4,1	10,2	15,7	11	5,2	16	116110L		▲
LS116.1325.GM1	2,5	2,5	4,1	10,2	15,7	11	5,2	16	116110L		▲
										P	●
										M	o
										K	o
										N	-
										S	-
										H	-

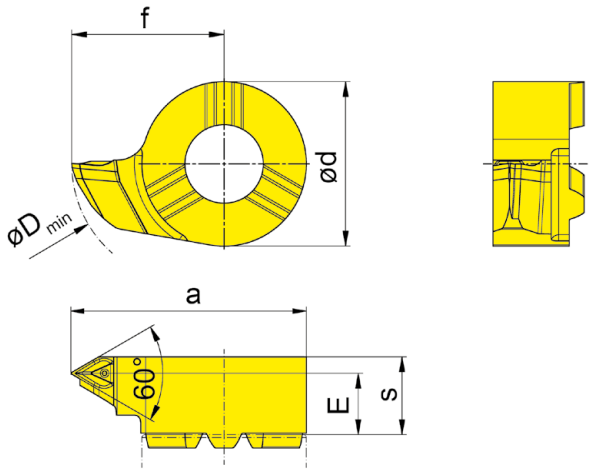
K

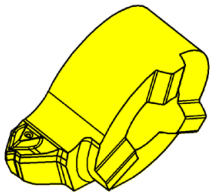
Schneidplatte
Insert

S116

Ø ≥ 16 mm







L = links wie gezeichnet
L = left hand version shown

HM-Sorten
Carbide grades

▲ ab Lager
on stock

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	HIS	EG55
RS116.0510.GM2	1	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS116.0815.GM2	1,5	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS116.1020.GM2	2	4,1	10,2	15,7	11	5,2	16	116110R	▲
RS116.1325.GM2	2,5	4,1	10,2	15,7	11	5,2	16	116110R	▲
LS116.0510.GM2	1	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS116.0815.GM2	1,5	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS116.1020.GM2	2	4,1	10,2	15,7	11	5,2	16	116110L	▲
LS116.1325.GM2	2,5	4,1	10,2	15,7	11	5,2	16	116110L	▲

P	●
M	o
K	o
N	-
S	-
H	-

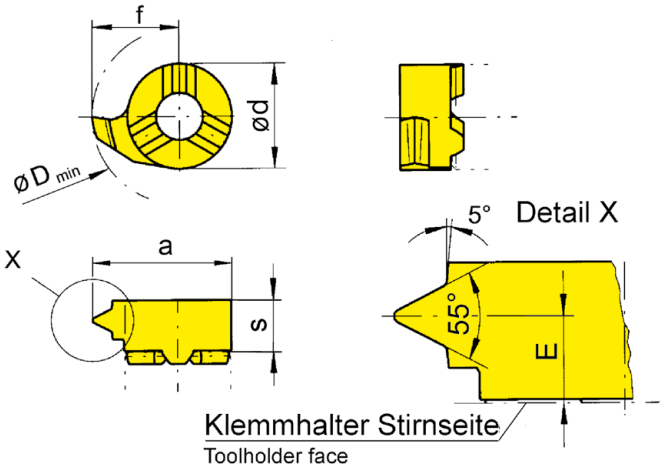
K

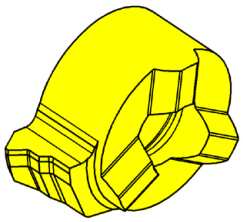
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	TPI	E	f	d	s	D_{min}	HIS		EG55	TN35
R116.5511.02	11	3,5	10,2	11	5,5	16	116110R		▲	▲
R116.5514.02	14	3,9	10,2	11	5,5	16	116110R		▲	▲
L116.5511.02	11	3,5	10,2	11	5,5	16	116110L		Δ	Δ
L116.5514.02	14	3,9	10,2	11	5,5	16	116110L		Δ	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

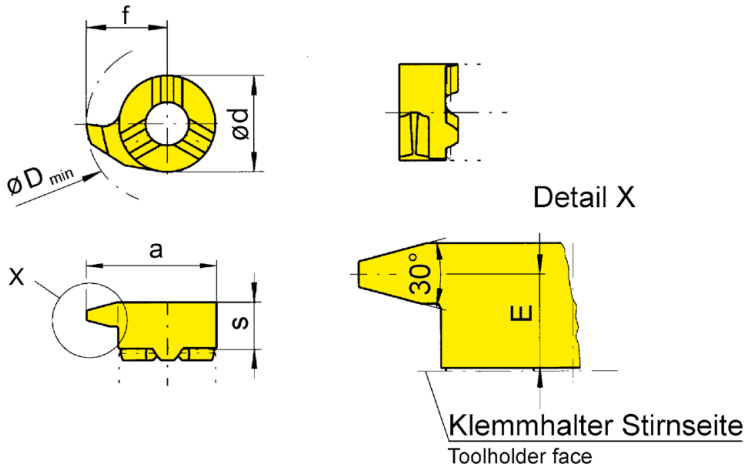
K

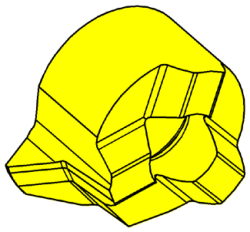
Schneidplatte
Insert

116

Ø ≥ 16 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	P	E	f	a	d	s	D_{min}	Gewinde Thread	HIS	EG55	TI25	TN35
R116.1220.01	2	4,5	9,7	15,2	11	5,5	16	Tr 20x2	116110R	▲		▲
R116.1730.01	3	4,3	9,7	15,2	11	5,5	16	Tr 22x3	116110R	▲		▲
R116.2240.01	4	4	9,7	15,2	11	5,5	16	Tr 22x4	116110R	▲		▲
R116.2750.01	5	3,55	10,2	15,7	11	5,5	16	Tr 24x5	116110R	▲		▲
R116.3560.01	6	3,3	10,2	15,7	11	5,5	16	Tr 30x6	116110R	▲	▲	
L116.1220.01	2	4,5	9,7	15,2	11	5,5	16	Tr 20x2	116110L	Δ		Δ
L116.1730.01	3	4,3	9,7	15,2	11	5,5	16	Tr 22x3	116110L	▲		▲
L116.2240.01	4	4	9,7	15,2	11	5,5	16	Tr 22x4	116110L	▲		▲
L116.2750.01	5	3,55	10,2	15,7	11	5,5	16	Tr 24x5	116110L	▲		▲
L116.3560.01	6	3,3	10,2	15,7	11	5,5	16	Tr 30x6	116110L	▲	▲	

	EG55	TI25	TN35
P	●	●	●
M	o	●	●
K	o	●	●
N	-	●	●
S	-	●	●
H	-	-	-

K

18P

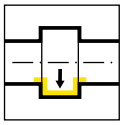


Klemmhalter und Schneidplatten

Toolholder and Inserts

L

Klemmhalter
Toolholder
B18P

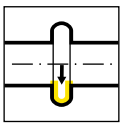


Seite/Page
344

Schneidplatte
Insert
S18P/18P



Seite/Page
345, 347



Seite/Page
346



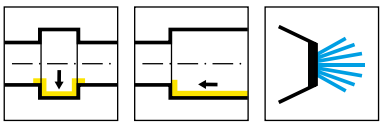
Seite/Page
348

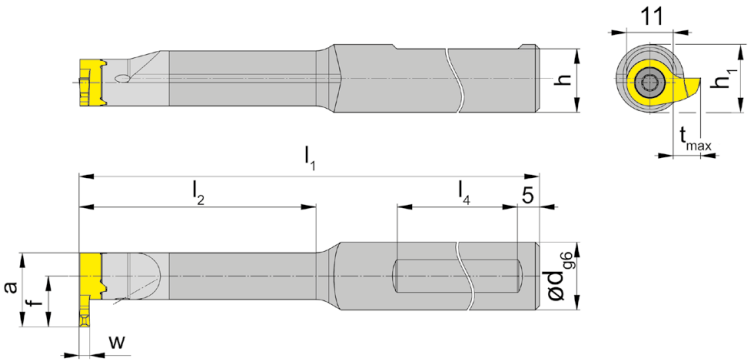
Bohrungs-Ø Bore Ø	Artikelgruppen / Product line											
	105	**109**	**110**	**106**	**107**	**108**	**10P**	**111**	**11P**	**114**	**116**	**18P**
≥ 0,2	•											
≥ 0,5	•											
≥ 0,7	•											
≥ 1,0	•											
≥ 1,5	•											
≥ 2,0	•											
≥ 3,0	•											
≥ 4,0	•											
≥ 5,0	•											
≥ 6,0	•	•	•	•								
≥ 6,8		•	•	•								
≥ 7,0		•			•							
≥ 7,8			•		•	•						
≥ 8,0			•		•	•						
≥ 9,0			•		•	•	•					
≥ 10,0			•				•	•	•			
≥ 10,5									•			
≥ 11,0								•	•			
≥ 11,5									•			
≥ 13,8										•		
≥ 14,0										•	•	
≥ 16,0									•		•	
≥ 16,5										(•)		
≥ 18,0												•
Stechtiefe Depth of groove	2,5	2,5	4,0	0,8	2,0	1,0	3,0	2,3	3,5	4,0 (6,5)	4,3	8,0
Stechbreite Width of groove	0,5- 2,0	1,0- 2,0	1,0- 3,0	0,7- 1,5	1,0- 2,0	0,7- 2,0	1,0- 3,0	0,7- 3,0	1,0- 3,0	0,7- 3,0	0,7- 4,0	2,0- 3,0
Bearbeitung / Machining												
Einstechen Grooving	•	•	•	•	•	•	•	•	•	•	•	•
Ausdrehen Boring	•	•	•	•	•	•		•		•	•	
Gewindedrehen Threading	•	•			•	•		•		•	•	
Fasen Chamfering	•	•			•	•		•		•	•	
Axialeinstechen Face Grooving	•	•	•									
Bohrung-Drehen Boring and Profiling	•											

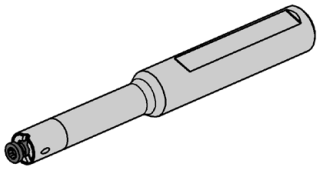
L

Klemmhalter
Toolholder

B18P







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

Bestellnummer Part number	d	l_1	l_2	h	l_4	h_1	HWS
RB18P.0012.00	12	100	25	11	50	12,5	18P110R
RB18P.0012.01	12	120	40	11	50	12,5	18P110R
RB18P.0016.00	16	100	25	15	50	13	18P110R
RB18P.0016.01	16	120	40	15	50	13	18P110R
RB18P.0016.02	16	130	56	15	50	13	18P110R
RB18P.0016.03	16	150	80	15	50	13	18P110R
LB18P.0012.00	12	100	25	11	50	12,5	18P110L
LB18P.0012.01	12	120	40	11	50	12,5	18P110L
LB18P.0016.00	16	100	25	15	50	13	18P110L
LB18P.0016.01	16	120	40	15	50	13	18P110L
LB18P.0016.02	16	130	56	15	50	13	18P110L
LB18P.0016.03	16	150	80	15	50	13	18P110L

w, a, tmax und f siehe Schneidplatten
w, a, tmax and f see inserts

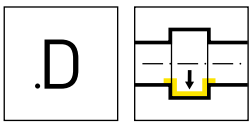
L

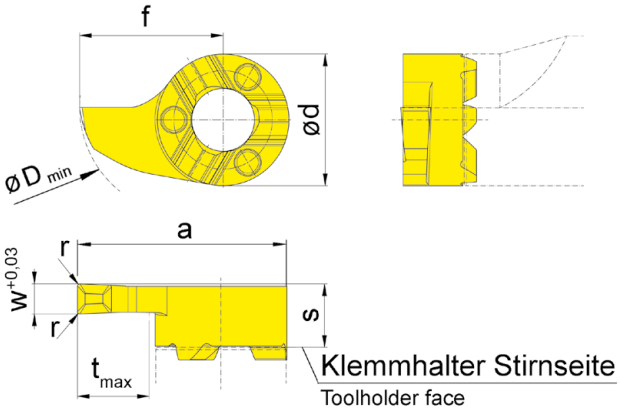
Ersatzteile
Spare Parts

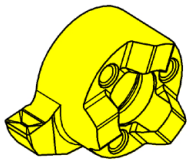
Klemmhalter Toolholder	**Spannschraube** Clamping Screw	**TORX PLUS®-Schlüssel** TORX PLUS® Wrench
R/LB18P...	**5.13T20EP**	**T20PQ**

Schneidplatte
Insert

S18P Ø ≥ 18 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

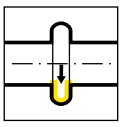
Δ 4 Wochen
4 weeks

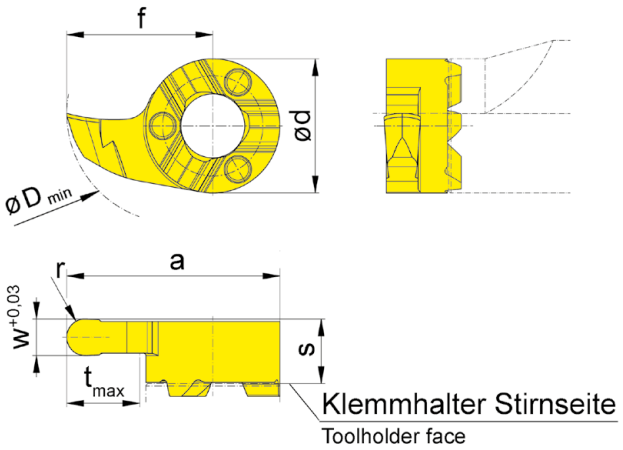
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
RS18P.0200.1.D2	2	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
RS18P.0250.1.D2	2,5	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
RS18P.0300.1.D2	3	5,3	12	17,5	0,2	11	6	18	18P110R		▲	▲
LS18P.0200.1.D2	2	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
LS18P.0250.1.D2	2,5	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
LS18P.0300.1.D2	3	5,3	12	17,5	0,2	11	6	18	18P110L		▲	▲
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

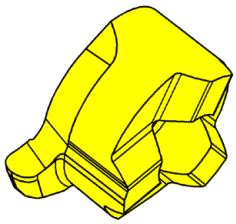
L

Schneidplatte
Insert

18P Ø ≥ 18 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

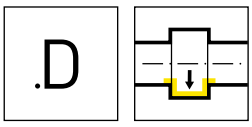
Δ 4 Wochen
4 weeks

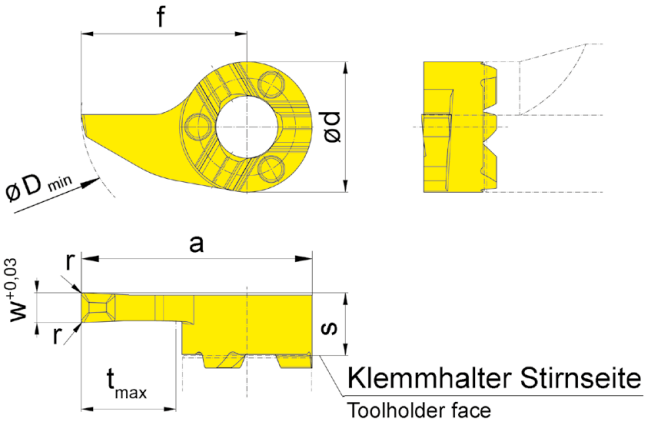
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS		EG55	TH35
R18P.0009.1.18	1,8	5,3	12	17,5	0,9	11	6	18	18P110R		▲	▲
R18P.0011.1.22	2,2	5,3	12	17,5	1,1	11	6	18	18P110R		▲	▲
R18P.0015.1.30	3	5,3	12	17,5	1,5	11	6	18	18P110R		▲	▲
L18P.0009.1.18	1,8	5,3	12	17,5	0,9	11	6	18	18P110L		Δ	▲
L18P.0011.1.22	2,2	5,3	12	17,5	1,1	11	6	18	18P110L		Δ	▲
L18P.0015.1.30	3	5,3	12	17,5	1,5	11	6	18	18P110L		Δ	▲
										P	●	●
										M	o	●
										K	o	●
										N	-	●
										S	-	●
										H	-	-

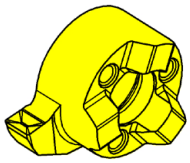
L

Schneidplatte
Insert

S18P Ø ≥ 20 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

▲ ab Lager
on stock

HM-Sorten
Carbide grades

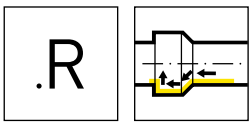
Δ 4 Wochen
4 weeks

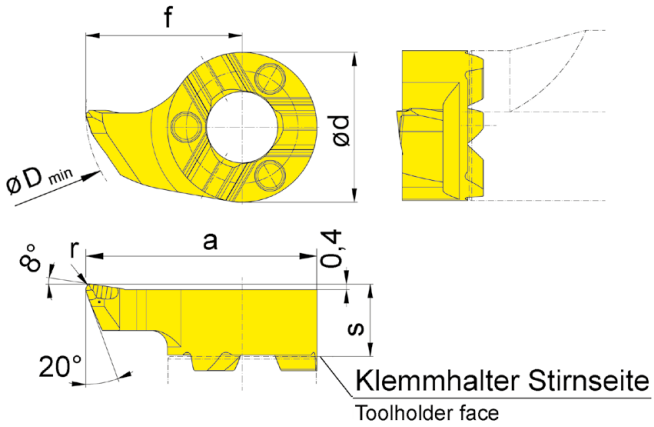
Bestellnummer Part number	w	s	f	a	r	d	t_{max}	D_{min}	HIS	EG55	TH35
RS18P.0200.2.D2	2	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
RS18P.0250.2.D2	2,5	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
RS18P.0300.2.D2	3	5,3	14	19,5	0,2	11	8	20	18P110R	▲	▲
LS18P.0200.2.D2	2	5,3	14	19,5	0,2	11	8	20	18P110L	▲	▲
LS18P.0250.2.D2	2,5	5,3	14	19,5	0,2	11	8	20	18P110L	Δ	▲
LS18P.0300.2.D2	3	5,3	14	19,5	0,2	11	8	20	18P110L	▲	▲
										P ●	●
										M o	●
										K o	●
										N -	●
										S -	●
										H -	-

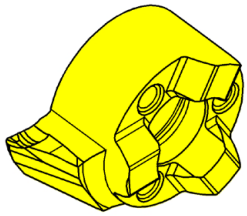
L

Schneidplatte
Insert

S18P Ø ≥ 17,5 mm







R = rechts wie gezeichnet
R = right hand version shown

L = links spiegelbildlich
L = left hand version

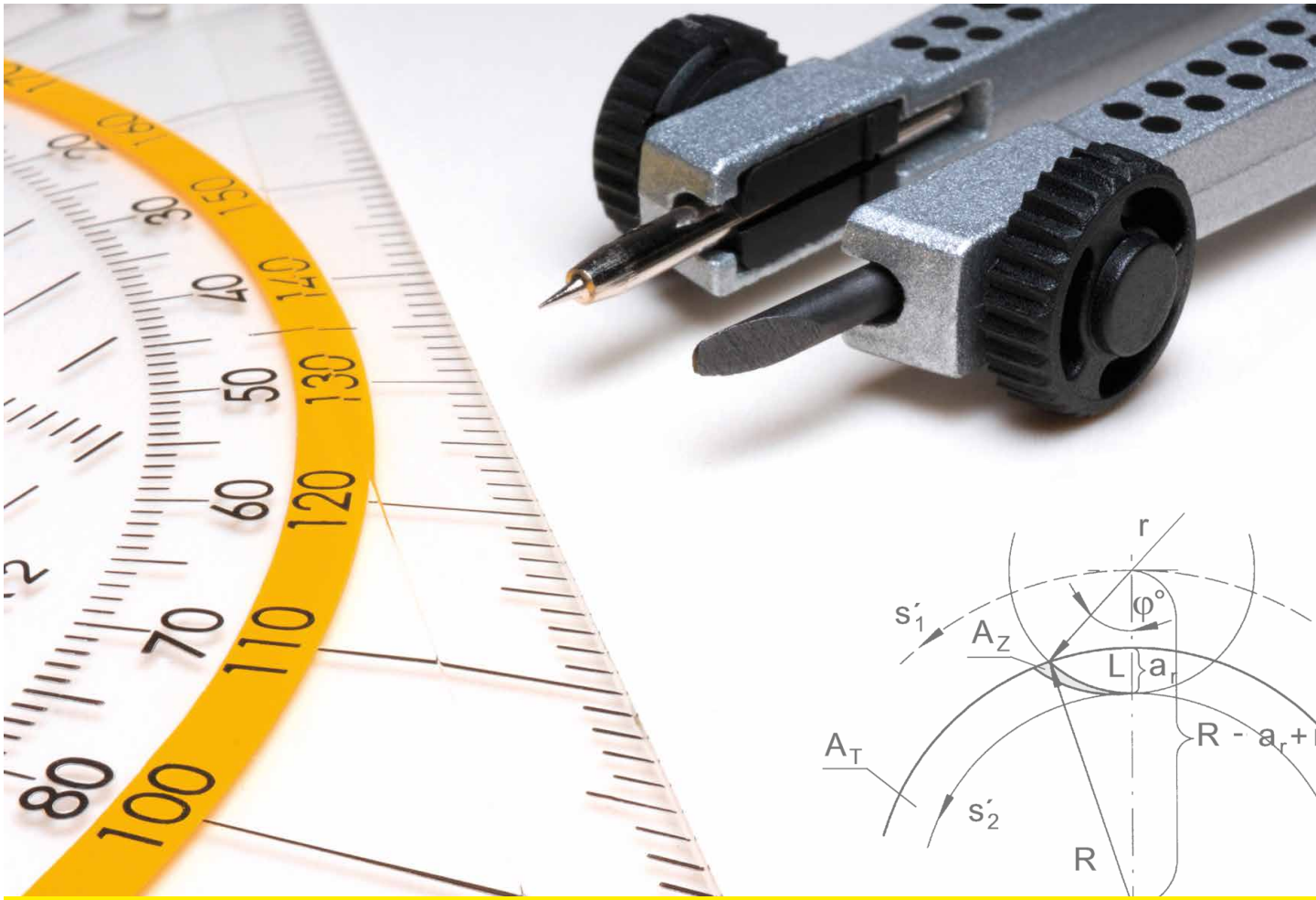
▲ ab Lager
on stock

HM-Sorten
Carbide grades

Δ 4 Wochen
4 weeks

Bestellnummer Part number	s	f	a	r	d	D_{min}	HIS		EG55	TH35
RS18P.1815.R2	5,3	11,5	17	0,2	11	17,5	18P110R		Δ	▲
RS18P.1815.R4	5,3	11,5	17	0,4	11	17,5	18P110R		▲	▲
LS18P.1815.R2	5,3	11,5	17	0,2	11	17,5	18P110L		Δ	Δ
LS18P.1815.R4	5,3	11,5	17	0,4	11	17,5	18P110L		▲	▲
								P	●	●
								M	o	●
								K	o	●
								N	-	●
								S	-	●
								H	-	-

L



Inhalt/Summary	Seite/Page
Beschichtungsübersicht Coating Overview	350-351
Schnittdaten Cutting Data	352-357
Schnitttdaten und Geometrien R/L105.BO Cutting Data and Geometries R/L105.BO	358-361
Technische Informationen Technical Information	362-364
Anzugsmomente Torque of Screws	365
Anwendungsbeispiele Examples for Machining	366-369
Zubehör Additional Equipment	370-375

Beschichtungsübersicht
Coating Overview

Schneidstoff Material group	Schichtaufbau Coating structure	Empfehlung Recommendation						Anwendung Application
AN2_ AN4_	AlCrSiN	P05	M05	K05	N05	S05	H05	Nutstoßen Broaching
		P10	M10	K10	N10	S10	H10	
		P20	M20	K20	N20	S20	H20	
		P30	M30	K30	N30	S30	H30	
		P40	**M40**	K40	N40			
		P50	**M50**					
TH3_	TiAlN	P05	M05	K05	N05	S05	H05	Für mittlere Vorschübe, auch geeignet bei Schnittunterbrechungen For medium feeds, also suitable for interrupted cuts
		P10	M10	K10	N10	S10	H10	
		P20	M20	K20	N20	S20	H20	
		P30	**M30**	K30	N30	S30	H30	
		P40	**M40**	K40	N40			
		P50	**M50**					
EG3_	AlTiN + TiN	P05	M05	K05	N05	S05	H05	Für kleine bis mittlere Vorschübe, zum Schlichten ohne Schnittunterbrechung For small to medium feeds, for finishing without any interruption of the cut
		P10	M10	K10	N10	S10	H10	
		P20	M20	**K20**	N20	S20	H20	
		P30	**M30**	**K30**	N30	S30	H30	
		P40	**M40**	**K40**	N40			
		P50	**M50**					
EG5_	AlTiN + TiN	P05	M05	K05	N05	S05	H05	Für mittlere Vorschübe, auch geeignet bei Schnittunterbrechungen For medium feeds, also suitable for interrupted cuts
		P10	M10	K10	N10	S10	H10	
		P20	M20	**K20**	N20	S20	H20	
		P30	**M30**	**K30**	N30	S30	H30	
		P40	**M40**	**K40**	N40			
		P50	**M50**					
ES1_	AlTiN	**P05**	M05	K05	N05	S05	H05	Für Feinstbearbeitungen und kleine Vorschübe, zum Schlichten ohne Schnittunterbrechung For superfinishing and small feeds, for finishing without interrupting the cut
		P10	M10	K10	N10	S10	H10	
		P20	M20	K20	N20	S20	H20	
		P30	**M30**	K30	N30	S30	H30	
		P40	**M40**	K40	N40			
		P50	**M50**					
IG3_	TiAlSiN	**P05**	**M05**	**K05**	N05	S05	H05	Für hohe Schnittgeschwindigkeiten ohne Schnittunterbrechung For high cutting speeds without any interruption of the cut
		P10	**M10**	**K10**	N10	S10	H10	
		P20	**M20**	**K20**	N20	S20	H20	
		P30	**M30**	K30	N30	**S30**	H30	
		P40	M40	K40	N40			
		P50	M50					

Beschichtungsübersicht
Coating Overview

Schneidstoff Material group	Schichtaufbau Coating structure	Empfehlung Recommendation						Anwendung Application
SG3_	TiAlCrSiN	P05	**M05**	K05	N05	**S05**	H05	Für kleine bis mittlere Vorschübe, zum Schlichten ohne Schnittunterbrechung For small to medium feeds, for finishing without any interruption of the cut
		P10	**M10**	K10	N10	**S10**	H10	
		P20	M20	K20	N20	**S20**	**H20**	
		P30	M30	K30	N30	S30	H30	
		P40	M40	K40	N40			
		P50	M50					
TI2_	TiCN	P05	M05	K05	N05	S05	H05	Für kleine bis mittlere Vorschübe bei niedrigen Schnittgeschwindigkeiten, Reduzierung von Aufbauschneiden For small to medium feeds at low low cutting speeds, Reduction of built-up edges
		P10	M10	K10	N10	S10	H10	
		P20	M20	K20	N20	S20	H20	
		P30	M30	K30	N30	S30	H30	
		P40	**M40**	K40	N40			
		P50	M50					
TN3_	TiN	P05	M05	K05	N05	S05	H05	Für niedrige Schnittgeschwindigkeiten, geeignet bei Schnittunterbrechungen For low cutting speeds, Suitable for cutting interruptions
		P10	M10	K10	N10	S10	H10	
		P20	M20	K20	N20	S20	H20	
		P30	M30	K30	N30	S30	H30	
		P40	M40	**K40**	N40			
		P50	M50					

ISO 513	P	M	K	N	S	H
Zähigkeit / Tenacity + / Verschleißfestigkeit / Wear resistance -	05	05	05	05	05	05
	10	10	10	10	10	10
	20	20	20	20	20	20
	30	30	30	30	30	30
	40	40	40	40		
	50	50				

Schnittdaten
Cutting Data

Werkstoff Material			Materialgruppe Material group	Härte (HB) Hardness Brinell	Zugfestigkeit R_m [N/mm²] Tensile Strength	Beispiel Werkstoff Example Material	
P	unlegierter Stahl Carbon steel	~ 0,2 % C	P1.1	125	430	CK15	
		~ 0,4% C geglüht annealed	P1.2	190	610	19Mn6	
		~ 0,4% C vergütet quenched	P1.3	210	640	36Mn5	
		~ 0,6% C geglüht annealed	P1.4	190	610	C55	
		~ 0,6% C vergütet quenched	P1.5	300	1000	CK60	
		Automatenstahl Free cutting steel	P1.6	220	750	9SMn28	
	niedrig legierter Stahl (<5%) Alloyed steel	geglüht annealed	P2.1	180	590	100Cr6	
		vergütet quenched	P2.2	280	960	14NiCr10	
		vergütet quenched	P2.3	350	1250	34CrMo4	
		vergütet quenched	P2.4	430	1450	55Cr3	
	hochlegierter Stahl (>5%) high alloyed steel	geglüht annealed	P3.1	200	680	X10CrAl18	
		gehärtet hardened	P3.2	350	1200	X210Cr2	
	Stahlguss Cast steel	unlegiert unalloyed	P4.1	180	590	GE200	
		legiert alloyed	P4.2	220	750	GX40CrSi28	
	Sinterstahl Sintered steel	weich soft	P5.1	220	570	Sint-D39	
M	Rostfreier Stahl Stainless steel	martensitisch ferritisch martensitic ferritic	M1.1	200	680	X16Cr13	
		austenitisch austenitic	M1.2	300	1000	X6CrNiMo-Ti17-12-2	
		austenitisch ferritisch austenitic ferritic	M1.3	230	780	X2CrNiMo-N17-13-3	
H	Gehärtete Stähle Hardened steels	50-55 HRC	H1.1	-	-		
		55-60 HRC	H1.2	-	-		
		60-63 HRC	H1.3	-	-		
		> 63HRC	H1.4	-	-		

	Schnittgeschwindigkeit vc (m/min) / Startwerte Cutting speed vc (m/min) / Start values								
	MG12	TN3_	TI2_	TH3_ TF4_	AN2_ RC2_	EG3_ EG5_	IG3_	DD2_	SG3_
	120-16	180 - 16	180 - 16	210 - 16	210 - 16	200 - 16	230-16		230-16
	110-16	170-16	170-16	200-16	200-16	200-16	230-16		230-16
	110-16	160-16	160-16	190-16	190-16	190-16	220-16		220-16
	110-16	150-16	150-16	180-16	180-16	180-16	210-16		210-16
	100-16	120-16	140-16	170-16	170-16	170-16	200-16		200-16
	120-16	160-16	160-16	190-16	190-16	190-16	220-16		220-16
	90 - 16	150 - 16	150 - 16	180-16	180-16	180 - 16	210-16		210-160
	85-16	140-16	140-16	180-16	180-16	180 - 16	210-160		210-160
	80-16	140-16	140-16	180-16	180-16	180 - 16	210-16		210-16
	80-16	140-16	140-16	160-16	160-16	160-16	180-16		180-16
	90-16	90 - 16	90 - 16	140 - 16	140 - 16	120 - 16	140-16		140-16
									140-16
	110-16	180 -16	180 - 16	180 - 16	180 - 16	160 - 16	180-16		180-16
	70-16	170-16		180 - 16	180 - 16	160 - 16	180-16		180-16
		90 - 16		90 - 19	90 - 16	90 - 16	100 - 15		100 - 16
		80 - 16		80 - 16	80 - 16	80 - 16	80 - 16		40 - 16
		60-16		60-16	60-16	60-16	70-16		80-16
							50 - 16		60 - 16
							50 - 16		60 - 16

Schnittdaten
Cutting Data

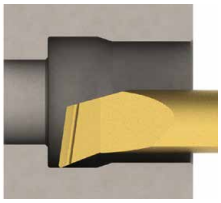
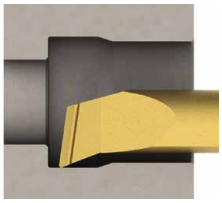
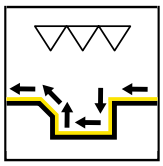
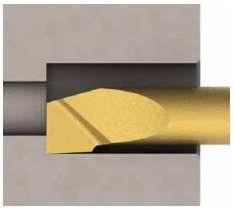
Werkstoff Material			Materialgruppe Material group	Härte (HB) Hardness Brinell	Zugfestigkeit R_m [N/mm²] Tensile Strength	Beispiel Werkstoff Example Material	
K	Grauguss Grey cast iron	niedrige Festigkeit low tensile strength	K1.1	180	250	GG-25	
		hohe Festigkeit high tensile strength	K1.2	250	350	GG-40	
	Kugelgraphitguss Spheroidal graphite cast iron	ferritisch ferritic	K2.1	160	400	GGG-40	
		perlitisch perlitic	K2.2	260	700	GGG-60	
	Temperguss Malleable cast iron	ferritisch ferritic	K3.1	200	400	GTW-45	
		perlitisch perlitic	K3.2	260	700	GTS-55-04	
	Ausferritisches Gussseisen/ADI Ausferritic spheroidal cast iron / ADI	vergütet quenched	K4.1	260	800		
		vergütet quenched	K4.2	350	1050		
		vergütet quenched	K4.3	450	1400		
N	Al-Legierungen Al-alloys	nicht vergütbar not heat treatable	N1.1	30		AlMg1	
		vergütbar heat treatable	N1.2	100	340	AlMgSi1	
	Al-Guss-Legierung Al-cast-alloy	< 6% Si	N2.1	80	300	AlMgSi6	
		6-10% Si	N2.2	100	320	AlSi7Mg	
		10-15 % Si	N2.3	130	450	AlSi12	
	Kupfer-Legierungen Copper-alloys	Reinkupfer Pure copper	N3.1	100	340	Cu	
		Messing, Bronze Brass	N3.2	90	310	CuZn40Pb	
		Messing bleifrei Lead-free brass	N3.3	110	430	CuZn40	
		hochfest high strength	N3.4	300	1000	CuZn25Al5-Mn4Fe3	
	Graphit Graphite		N4.1				
S	Warmfeste Legierung (Fe) Heat resistant alloy	geglüht annealed	S1.1	200	670		
		gehärtet hardened	S1.2	275	930		
	Warmfeste Legierung (Ni, Co) Heat resistant alloy	geglüht annealed	S2.1	250	840	Inconel 600	
		gehärtet hardened	S2.2	350	1200	Inconel 713	

	Schnittgeschwindigkeit vc (m/min) / Startwerte Cutting speed vc (m/min) / Start values								
	MG12	TN3_	TI2_	TH3_ TF4_	AN2_ RC2_	EG3_ EG5_	IG3_	DD2_	SG3_
	90 - 16	150 - 16		160 - 16		160 - 16			
		120 - 16							
	90 - 16	130 - 16							
		100-16		160 - 18		140 - 16			
		130 - 16		180 - 16		160 - 18			
	220 - 16		220 - 16	220 - 16		220 - 16		350 -16	
	220 - 16		220 - 16	220 - 16		220 - 16		350 -16	
	220 - 16		220 - 16	220 - 16		220 - 16		350 -16	
								350-16	
	220 - 16							300 -16	
	220 - 16							300 -16	
	220 - 16							250 -16	
	180 - 16							200 -16	
	50-16						75-16		75 -16
	50-16								
	30-16						40 - 16		40 - 16
	30-16						40 - 16		40 - 16

Werkstoff Material			Materialgruppe Material group	Härte (HB) Hardness Brinell	Zugfestigkeit R_m [N/mm²] Tensile Strength	Beispiel Werkstoff Example Material	
S	Titan	Titanlegierung α Titanium alloy α	S3.1	120	240	Ti99,7	
		Titanlegierung α-ß Titanium alloy α- ß	S3.2	360	1200	Ti6Al4V	
		Titanlegierung ß Titanium alloy ß	S3.3	410	1400	Ti-10V-2Fe-3Al	
O	Thermoplaste Thermoplastics		O1.1				
	Duroplaste Duro plaste		O1.2				
	Kunststoffe glas-faserverstärkt Plastics glass fibre reinforced	GFK	O1.3				
	Kunststoffe kohle-faserverstärkt Plastics carbon fibre reinforced	CFK	O1.4				

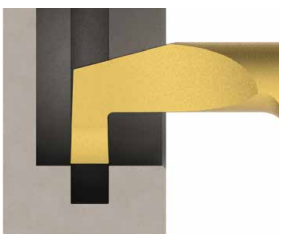
	Schnittgeschwindigkeit vc (m/min) / Startwerte Cutting speed vc (m/min) / Start values								
	MG12	TN3_	TI2_	TH3_ TF4_	AN2_ RC2_	EG3_ EG5_	IG3_	DD2_	SG3_
	30-16						75 - 16		85-16
	30-16						75 -16		85-16
	30-16						75-16		85-16
	150 - 16								
	150 - 16								
	150 - 16								
	300 - 16								

Geometrien und Vorschübe - Supermini
Geometries and feed rates - Supermini

Geometrie Geometry	Werkstoff Material	Vorschubbereich f [mm/U] Feed rate f [mm/rev]	Bearbeitung Machining
.H	P M K N S H	f = 0,04-0,06 ap = 0,15-0,5 mm	
.HV	P M K N S H	f = 0,05-0,1 ap = 0,15-0,5 mm	
.FB	P M K N S H	f = 0,01-0,04 ap = 0,03-0,05 mm	
	P M K N S H	f = 0,005-0,015 ap = 0,01-0,05 mm	

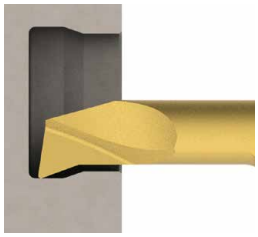
Vorschubbereich f [mm/U]
Feed rate f [mm/rev]

f = 0,01-0,03



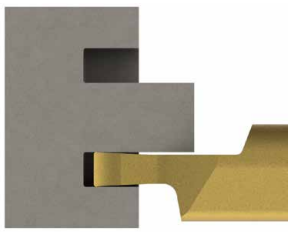
Einstechen
Grooving

f = 0,02-0,05
ap = 0,15-0,5 mm



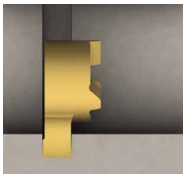
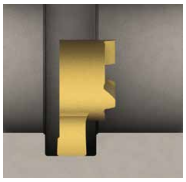
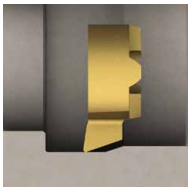
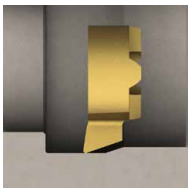
Längsdrehen
Side Turning

f = 0,02-0,05



Axialeinstechen
Face Grooving

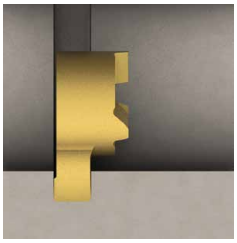
Geometrien und Vorschübe - Mini
Geometries and feed rates - Mini

Geometrie Geometry	Werkstoff Material	Vorschubbereich f [mm/U] Feed rate f [mm/rev]	Bearbeitung Machining
.D	P M K N S H	f = 0,03-0,08 ap = 0,2-1,5*	
.FB	P M K N S H	f = 0,015-0,05 ap = 0,03-0,07*	
.I	P M K N S H	f = 0,05-0,15 ap = 0,05-0,35	
.R	P M K N S H	f = 0,05-0,15 ap = 0,2-1,75*	

*Systemabhängig / System dependent

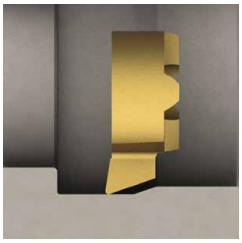
Vorschubbereich f [mm/U]
Feed rate f [mm/rev]

f = 0,01-0,05



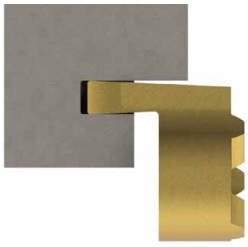
Einstechen
Grooving

f = 0,03-0,1
ap = 0,1-0,5 mm



Längsdrehen
Side Turning

f = 0,01-0,08



Axialeinstechen
Face Grooving

Schnittdaten R/L105.BO...

Cutting data R/L105.BO...

Ausdrehen Stahl **Boring Steel**		Schnitttiefe ap (mm) Depth of cut ap (mm)					
		0,5	1	1,5	2	2,5	3
		Vorschub f [mm/U] Feed rate f [mm/rev]					
R/L105.BO.30.20.045.1	1,5*D	0,03-0,05	0,02-0,03				
R/L105.BO.30.20.075.1	2,5*D	0,03-0,05	0,02-0,03				
R/L105.BO.40.20.060.1	1,5*D	0,04-0,06	0,04-0,06	0,04-0,06			
R/L105.BO.40.20.100.1	2,5*D	0,04-0,06	0,04-0,06	0,04-0,06			
R/L105.BO.50.20.075.1	1,5*D	0,05-0,08	0,05-0,08	0,04-0,07	0,04-0,07		
R/L105.BO.50.20.125.1	2,5*D	0,05-0,08	0,05-0,08	0,04-0,07	0,04-0,07		
R/L105.BO.60.20.090.1	1,5*D	0,07-0,1	0,07-0,1	0,07-0,1	0,07-0,1	0,05-0,08	
R/L105.BO.60.20.150.1	2,5*D	0,07-0,1	0,07-0,1	0,07-0,1	0,07-0,1	0,05-0,08	
R/L105.BO.70.20.105.1	1,5*D	0,08-0,1	0,07-0,1	0,07-0,1	0,07-0,1	0,07-0,08	0,05-0,07
R/L105.BO.70.20.175.1	2,5*D	0,08-0,1	0,07-0,1	0,07-0,1	0,07-0,1	0,07-0,08	0,05-0,07

Vorschubwerte für rostfreie Materialien: Minimal-Werte wählen.
Feed rates for stainless materials: Select minimum values.

Bohren Stahl **Drilling Steel**		Vorschub f [mm/U] Feed rate f [mm/rev]
R/L105.BO.30.20.045.2	1,5*D	0,01-0,02
R/L105.BO.30.20.075.2	2,5*D	0,01-0,02
R/L105.BO.40.20.060.2	1,5*D	0,01-0,02
R/L105.BO.40.20.100.2	2,5*D	0,01-0,02
R/L105.BO.50.20.075.2	1,5*D	0,02-0,04
R/L105.BO.50.20.125.2	2,5*D	0,02-0,04
R/L105.BO.60.20.090.2	1,5*D	0,03-0,05
R/L105.BO.60.20.150.2	2,5*D	0,03-0,05
R/L105.BO.70.20.105.2	1,5*D	0,03-0,05
R/L105.BO.70.20.175.2	2,5*D	0,03-0,05

Zum Bohren empfehlen wir die Universalgeometrie
For drilling we recommend the universal geometry

Geometrien R/L105.B0...

Geometries R/L105.B0...



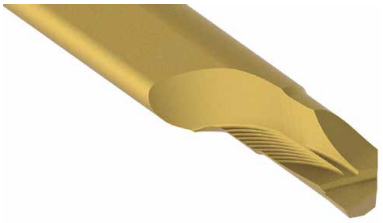
R/L105.B0...1

Geometrie mit Spantreppe für bessere Spankontrolle

- Ausdrehen mit großen Zustellungen
- Für allgemeine Stähle
- Mit Schleppschneide für höhere Vorschübe
- Bessere Spankontrolle
- Bohren in allgemeinen Stählen
- Bei problematischen Anwendungen mit dem Ziel Prozesssicherheit
- Auch bei langspanenden Werkstoffen

Geometry with chipbreaker for better chip control

- Turning with large infeeds
- For general steels
- With trailing cutting edge for higher feeds
- Better chip control
- Drilling in general steels
- For problematic applications with the aim of process reliability
- Also for long-chipping materials



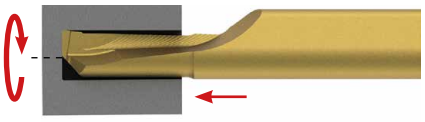
R/L105.B0...2

Universalgeometrie

- Ausdrehen mit großen Zustellungen
- Leichtschneidende Universalgeometrie auch für rostfreie Stähle
- Mit Schleppschneide für höhere Vorschübe
- Weniger Schnittdruck, auch für dünnwandige Bauteile
- Zum Bohren in Stahl und NE-Metallen

Universal geometry

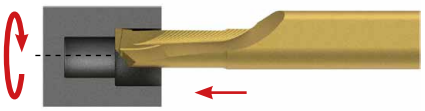
- Turning with large infeeds
- Easy cutting universal geometry also for stainless steels
- With trailing cutting edge for higher feeds
- Less cutting pressure, suitable even for thin-walled components
- For drilling in steel and non-ferrous metals



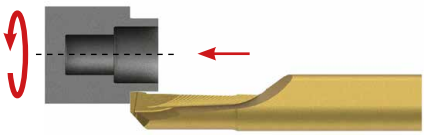
Bohren ins Volle mit ebenem Bohrungsgrund
Drilling into the solid and achieving a flat hole bottom



Drehen von Plankonturen
Turning of face profiles



Drehen von Innenkonturen
Turning of internal profiles



Drehen von Außenkonturen
Turning of external profiles

Gewindedrehen
Alle Gewinde bis Steigungswinkel 4,5° können mit HORN Standard-Gewindeschneidplatten gefertigt werden. Es sind keine besonderen Unterlagen oder Anstellwinkel erforderlich.

Plattensitze
Die Plattensitze der Mini- und Supermini®-Werkzeuge garantieren eine exakte Positionierung auf Spitzenhöhe. Trotzdem ist immer auf die Spitzenhöhe zu achten, denn Abweichungen können besonders bei Bearbeitung kleinster Durchmesser Probleme bereiten.

Späneabfuhr
Bitte wählen Sie schmale Schneidbreiten, damit der Span geschmeidig bleibt und am Werkzeug vorbei aus der Bohrung fließen kann. Um Spänestau zu vermeiden, ist stufenförmig oder mit Schnittunterbrechung zu stechen.

Kühlmittel
Verwenden Sie gefiltertes Kühlmittel, um die Späne auszuspülen und die Schneide zu kühlen. Ein Kühlmitteldruck von min. 10 bar wird empfohlen.

Threading
All threads up to 4,5 ° helix angle can be manufactured with HORN standard threading inserts. No special anvils will be necessary.

Seatings
Seatings of Mini as well as of Supermini® guarantee the accurate centre height of these tools. In spite of this please always check centre height because a difference may cause problems especially when machining small diameters.

Removal of chips
Please choose inserts with small cutting widths, which helps chips evacuation and chip flow out of the bore beside the tool. To avoid jam of chips use the technique to groove by steps.

Coolant
Use a filtered coolant for transporting the chips out and for cooling the insert itself. A coolant pressure of 10 bar min. is recommended.

Technische Hinweise Gewindedrehen
Technical Instructions Threading

	Stahl (Nmm² Festigkeit) Steel (N/mm² Tensile strength)					rostfr. Stahl Stainless steel	Grau-guss Grey cast iron	Al
	400-500	500-700	700-850	850-1150	> 1150			
V_{max} m/min	160	140	120	90	70	90	100	300

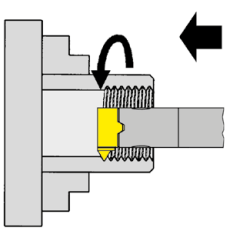
Steigung Pitch		Anzahl der Schnitte Number of passes							
		Stahl (Nmm² Festigkeit) Steel (N/mm² Tensile strength)					rostfr. Stahl Stainless steel	Grau-guss Grey cast iron	Al
mm	Gg/'' tpi	400-500	500-700	700-850	850-1150	> 1150			
0,8	32	10	10	12	12	14	14	12	10
1,0	24	13	13	15	15	18	18	15	13
1,25	20-19	16	16	19	19	22	22	19	16
1,5	16	20	20	23	23	27	27	23	20
1,75	14	23	23	27	27	31	31	27	23
2,0	12-11	27	27	30	30	36	36	30	27
2,5	10	33	33	38	38	45	45	38	33
3,0-3,5	8	40	40	46	46	54	54	46	40

Die Anzahl der Durchgänge für das Gewindedrehen in o.g. Tabelle sind nur Richtwerte.
Folgendes ist zu beachten:
- Beim 1. Durchgang darf die Zustellung nicht zu groß sein, um Ausbrüche an der Schneide zu vermeiden.
- Leerschnitte (ohne Zustellung) sind in der Tabelle nicht berücksichtigt.

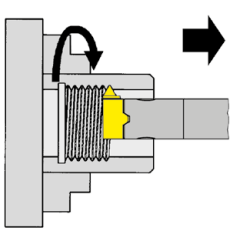
The recommended number of passes in the above table are approximate figures.
Please note:
- to avoid breakages at the cutting edge, the depth of cut at the first pass should not be too deep
- finishing passes (with zero depth of cut) are not considered in the table

Vorschubsrichtung Innengewindedrehen
Feed direction internal threading

Rechtsgewinde
Right hand thread

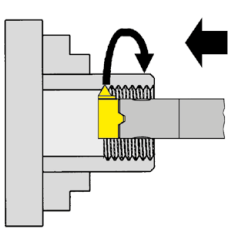


Schneidplatte rechts
Insert right hand

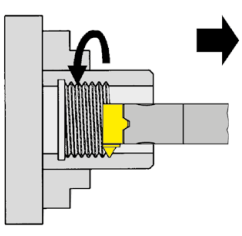


Schneidplatte links
Insert left hand

Linksgewinde
Left hand thread



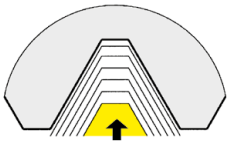
Schneidplatte links
Insert left hand



Schneidplatte rechts
Insert right hand

Zustellung
In-Feed

Radiale Zustellung
Die gebräuchlichste Methode Gewinde herzustellen. Beide Schneiden sind gleichzeitig im Eingriff.



Radial In-Feed
Metal removed on both sides of the insert simultaneously. The most commonly used method for thread production.

Modifizierte Flankenzustellung
Weniger Verschleiß der Schleppschneide und eine bessere Oberflächengüte der entsprechenden Gewindeflanke.



Modified flank in-feed
Less wear of the trailing edge and better surface finish on corresponding flank.

Wechselnde Flankenzustellung
Beide Schneidflanken werden gleichmäßig benutzt, ergibt höhere Standzeiten.



Alternating flank in-feed
Both edges are being fully utilized which means longer tool life.

Einseitige Flankenzustellung
Geringerer Schnittdruck und bessere Wärmeabfuhr.



Flank in-feed
More easily formed chip and better heat dissipation.

Anzugsmomente
Torque of Screws

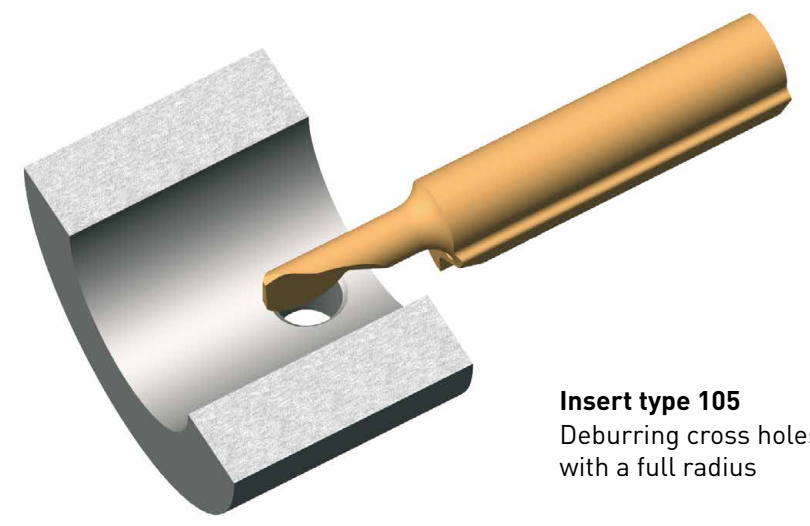
Nachstehende Drehmomente sind für die Spannschrauben zulässig. Wir empfehlen keine zusätzlichen Gleitmittel wie Kupferpaste oder ähnliches für die Schrauben zu verwenden.

Following torques are allowed for screws of inserts. We recommend to use no additionel gliding means (such as copper paste) for screws.

Typ type	Schraube Screw	M_d Nm	Schlüssel Wrench	Klinge Blade
001	8.075.1835	**5**	SW4DIN911	DSW40K
125	3.512T10EP	**3**	T10PL	DT10PK
145	5.13T20EP	**6,5**	T20PQ	DT20PK / DT20PQ
962	6.075T15P	**5**	T15PQ	DT15PK
963	6.075T15P	**5**	T15PQ	DT15PK
AIH	030.3509.T15P 6.075T15P	**2,5** **5**	T10PL T15PQ	DT10PK DT15PK
B10P	2.6.5T8EP	**1,2**	T8PL	DT8PK
B11P	3.10T9P	**1,8**	T9PL	DT9PK
B18P	5.13T20EP	**6**	T20PQ	DT20PK / DT20PQ
B105	6.075T15P	**5**	T15PQ	DT15PK
B105.00...A...	030.00M8.1188	**4**	T25PQ	DT25PK / DT25PQ
B105.00...S...	030.0000.1157	**2**	T15PL	DT15PK
B105.A022...	030.0422T10P	**2**	T10PL	DT10PK
B106	1.8.4T6EP	**0,9**	T6PL	DT6PK
B107	2.2.5T7EP	**1,1**	T7PL	DT7PK
B108	2.6.5T8EP	**1,2**	T8PL	DT8PK
B109	6.075T15P	**5**	T15PQ	DT15PK
B110	6.075T15P	**5**	T15PQ	DT15PK
B111	3.512T10EP	**3**	T10PL	DT10PK
B114	4.12T15EP	**5**	T15PQ	DT15PK
B116	5.13T20EP	**6,5**	T20PQ	DT20PK / DT20PQ
BA114	4.12.T15P	**5**	T15PQ	DT15PK
BGT001	DIN912M5x10	**5**	SW4DIN911	DSW40K
BGT001.C...	DIN912M5x14	**5**	SW4DIN911	DSW40K
BKT	6.075T15P	**5**	T15PQ	DT15PK
BKT105...S...	030.0000.1157	**2**	T15PL	DT15PK
BU105	6.075T15P	**5**	T15PQ	DT15PK
BU105.00...S...	030.0000.1157	**2**	T15PL	DT15PK
H105	6.075T15P	**5**	T15PQ	DT15PK
HC105	6.075T15P	**5**	T15PQ	DT15PK
HC114	4.12T15EP	**5**	T15PQ	DT15PK
IR105	6.075T15P	**5**	T15PQ	DT15PK
KC760	5.12.T20P	**6**	T15PQ	DT15PK
N	6.075T15P	**5**	T15PQ	DT15PK
VDI	6.075T15P	**5**	T15PQ	DT15PK
WFB...105	6.075T15P	**5**	T15PQ	DT15PK
WFB...110	6.075T15P	**5**	T15PQ	DT15PK
WFB...14	4.12T15EP	**5**	T15PQ	DT15PK

Schneidplatte Typ 105

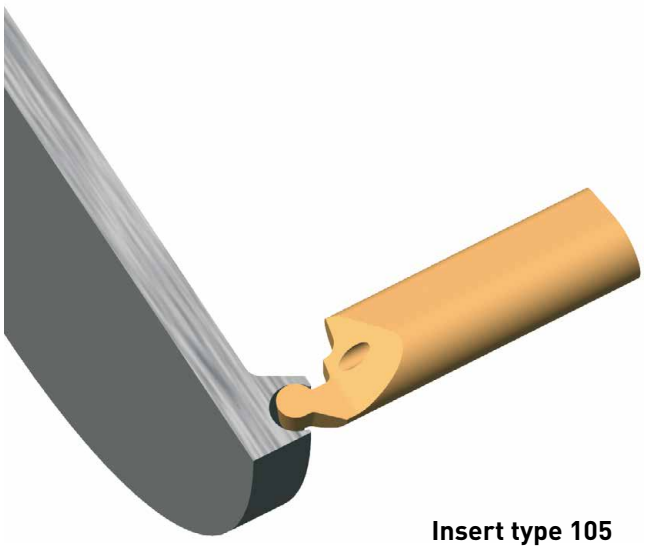
Rotierender Einsatz einer Vollradiusplatte
zum Entgraten von Querbohrungen



Insert type 105
Deburring cross holes using a rotating insert
with a full radius

Schneidplatte Typ 105

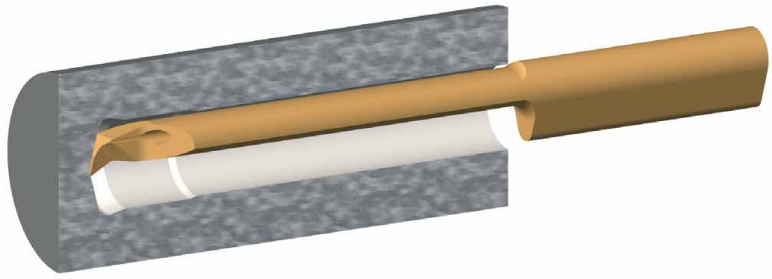
Einstechen einer axialen Formnut
(Vollradius)



Insert type 105
Profiling a face groove
(full radius insert)

Schneidplatte Typ 105

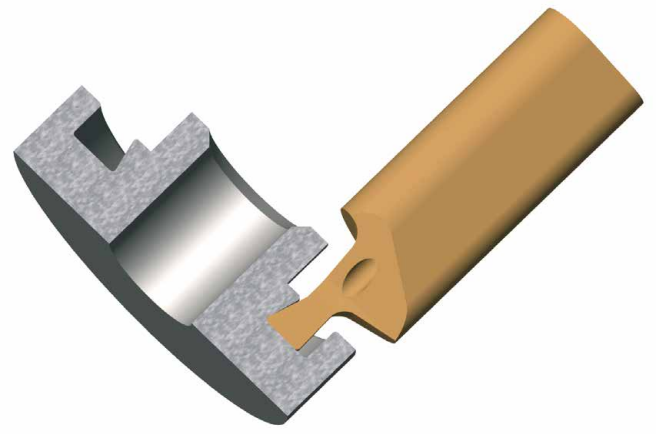
Kopieren des Bohrungsbodens und des Freistichs



Insert type 105
Machining a flat bottom hole with an undercut

Schneidplatte Typ 105

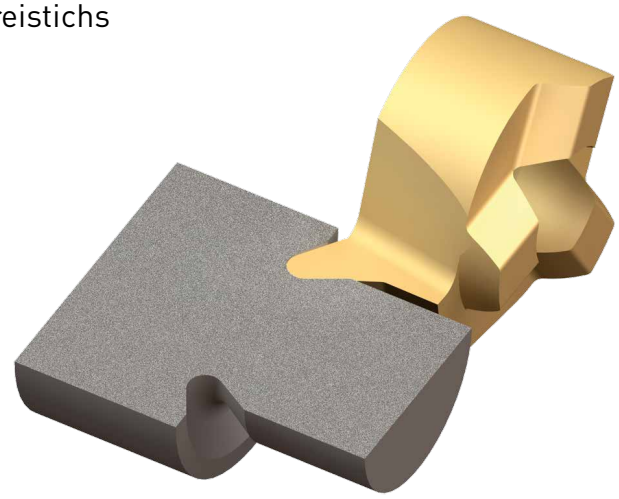
Fertigen einer axialen Schwalbenschwanznut



Insert type 105
Machining of a dovetail face groove

Schneidplatte Typ 108

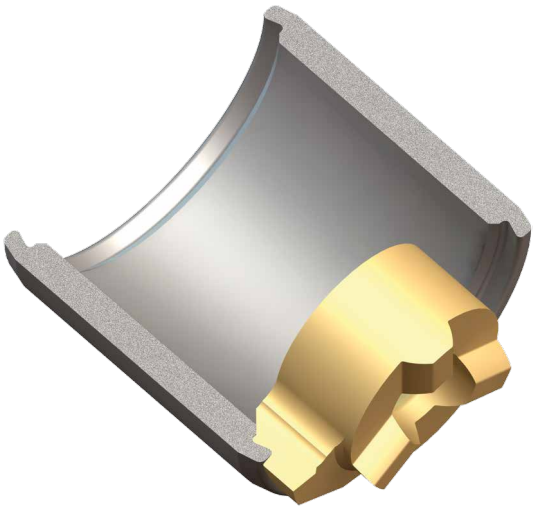
Sonderform eines Eckenfreistichs



Insert type 108
Special angled under-cut relief

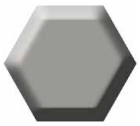
Schneidplatte Typ 111

Formstechen mit Endenbearbeitung
einer Hülse



Insert type 111
Special ID form groove and facing

Anwendungsbeispiel
Example for Machining



Stoßen "Innensechskant"
Broaching "Hexagon socket"





Stoßen "Torx"
Broaching "Torx"



Weitere Informationen finden Sie in unserem HORN-Katalog
"STECHDREHEN UND NUTSTOSSEN"

For further information please see the HORN catalogue "GROOVING AND BROACHING"



D 041 VL

0,4-1 Nm

Drehmoment-Schraubendreher mit Skala
- mit variabler Einstellmöglichkeit
- numerische Drehmoment-Anzeige in Fensterskala

Drehmoment stufenlos einstellbar mit Einstellwerkzeug Torque-Setter (enthalten).
Griff: Ergonomischer Mehrkomponentengriff, extrem handlich durch leichte und kompakte Bauweise. Klicksignal beim Erreichen des eingestellten Drehmomentwertes.
Normen: EN ISO 6798, BS EN 26789, ASME B107.14.M.
Genauigkeit: ± 6 %, rückführbar auf nationale Normale



D 15 VL

1-5 Nm

Torque screw driver with scale
- variable torque setting
- adjusted torque is shown on display

The Torque can be adjusted with a special torque setter (included).
Handle: Ergonomical form gives perfect handling abilities. Audible signal when set torque is reached.
Standard: EN ISO 6798, BS EN 26789, ASME B 107.14.M.
Precision: ± 6 %



D 28 VL

2-7 Nm



ED 28 VL
für / for
D041VL / D15VL / D28VL

Einstellwerkzeug für Drehmoment-Schraubendreher

Griff: Celluloseacetat mit microfeiner Oberflächenstruktur
Klinge: Achtkantklinge, durchgehend gehärtet, verzinkt

Device for setting the required torque

Handle: Celluloseacetat with micro structured surface
Blade: Octogonal (8 flats) blade, hardened galvanized



D515QL

5-14 Nm

Drehmoment-Schraubendreher mit Skala
- mit variabler Einstellmöglichkeit
- numerische Drehmoment-Anzeige in Fensterskala

Drehmoment stufenlos einstellbar mit Einstellwerkzeug Torque-Setter (enthalten).
Griff: Ergonomischer Mehrkomponentengriff, extrem handlich durch leichte und kompakte Bauweise. Klicksignal beim Erreichen des eingestellten Drehmomentwertes.
Normen: EN ISO 6798, BS EN 26789, ASME B107.14.M.
Genauigkeit: ± 6 %, rückführbar auf nationale Normale

Torque screw driver with scale
- variable torque setting
- adjusted torque is shown on display

The Torque can be adjusted with a special torque setter (included).
Handle: Ergonomical form gives perfect handling abilities. Audible signal when set torque is reached.
Standard: EN ISO 6798, BS EN 26789, ASME B 107.14.M.
Precision: ± 6 %



ED515QL
für / for
D515QL

Einstellwerkzeug für Drehmoment-Schraubendreher

Griff: Celluloseacetat mit microfeiner Oberflächenstruktur
Klinge: Achtkantklinge, durchgehend gehärtet, verzinkt

Device for setting the required torque.

Handle: Celluloseacetat with micro structured surface
Blade: Octogonal (8 flats) blade, hardened galvanized



DT6PK
DT7PK
DT8PK
DT9PK
DT10PK
DT15PK
DT20PK
DT25PK
für / for
D041VL / D15VL / D28VL



Plus

Wechselklinge für TORX PLUS® Schrauben

Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt Wiha Chrom Top-Klingenspitze garantiert höchste Maßhaltigkeit. Farbcodierung dunkelgrün
Anwendung: Kontrolliertes Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Wiha Drehmomentgriff.

Blade for TORX-Plus® screws

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated. Wiha Chrome Blade guarantees maximum precison. Colored code dark green
Utilization: Controlled screw setting with definite torque in combination with Wiha torque screw driver handle.



DT6K
DT8K
DT15K
für / for
D041VL / D15VL / D28VL



Wechselklinge für Torx Schrauben

Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt Wiha Chrom Top-Klingenspitze garantiert höchste Maßhaltigkeit. Farbcodierung dunkelgrün
Anwendung: Kontrolliertes Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Wiha Drehmomentgriff.

Blade for Torx screws

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated. Wiha Chrome Blade guarantees maximum precison. Colored code dark green
Utilization: Controlled screw setting with definite torque in combination with Wiha torque screw driver handle.



DT15PQ
DT20PQ
DT25PQ
DT27PQ
DT30PQ
für / for
D515QL



Plus

Wechselklinge für TORX PLUS® Schrauben

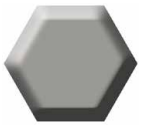
Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt Wiha Chrom Top-Klingenspitze garantiert höchste Maßhaltigkeit. Farbcodierung dunkelgrün
Anwendung: Kontrolliertes Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Wiha Drehmomentgriff.

Blade for TORX-Plus® screws

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated. Wiha Chrome Blade guarantees maximum precison. Colored code dark green
Utilization: Controlled screw setting with definite torque in combination with Wiha torque screw driver handle.



DSW15K
DSW20K
DSW25K
DSW30K
DSW40K
für / for
D041VL / D15VL / D28VL



DSW50K
DSW60K
für / for
D15QL

Wechselklinge für Innensechskant-Schrauben

Klinge: Hochwertiger Chrom-Vanadium-Molybdän-Stahl, durchgehend gehärtet, mattverchromt Wiha Chrom Top-Klingenspitze garantiert höchste Maßhaltigkeit. Farbcodierung rot
Anwendung: Kontrolliertes Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Wiha Drehmomentgriff.

Blade for allen screws

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated. Wiha Chrome Blade guarantees maximum precison. Colored code red
Utilization: Controlled screw setting with definite torque in combination with Wiha torque screw driver handle



D14ZBK

für / for
D041VL / D15VL / D28VL

Universal-Bithalter für C6,3 und E6,3 (1/4") Bits

Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt.
Hülse: Aus rostfreiem Stahl
Anwendung: Zum kontrollierten Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Drehmomentgriff.

Universal Bitholder for C6,3 and E6,3 (1/4") Bits

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated.
Collar: Stainless steel
Utilization: For controlled screw setting with definite torque in combination with torque screw driver handle.



D14ZBQ

für / for
D515QL

Universal-Bithalter für C6,3 und E6,3 (1/4") Bits

Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt.
Hülse: Aus rostfreiem Stahl
Anwendung: Zum kontrollierten Verschrauben bei vorgegebenem Drehmoment, in Kombination mit einem Drehmomentgriff.

Universal Bitholder for C6,3 and E6,3 (1/4") Bits

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated.
Collar: Stainless steel
Utilization: For controlled screw setting with definite torque in combination with torque screw driver handle.



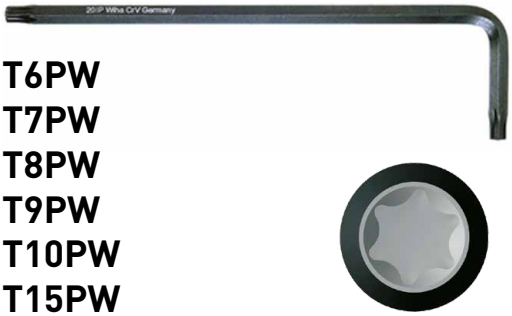
14ZQK

Bithalter mit Quergriff für C6,3 und E6,3(1/4") Bits

Klinge: Hochwertiger Chrom-Vanadium-Molybdän Stahl, durchgehend gehärtet, mattverchromt
Hülse: Aus rostfreiem Stahl
Anwendung: Zum kontrollierten Öffnen

Universal Bitholder with T-handle for C6,3 and E6,3 (1/4") Bits

Blade: High quality Chrome-Vanadium steel, through hardened, chrome plated.
Collar: Stainless steel
Utilization: For controlled opening



T6PW
T7PW
T8PW
T9PW
T10PW
T15PW
T20PW
T25PW
T30PW

Plus

Stiftschlüssel für TORX PLUS® Schrauben

Anwendung: Für alle TORX PLUS® Schraubaufgaben
Achtung: TORX PLUS®-Schlüssel passen NICHT in Torx-Schrauben

Wrench for TORX PLUS® Screws

Utilization: For all kind of using TORX PLUS® Screws
Attention: TORX PLUS®-Wrench does NOT fit for Torx-Screws

Index

Typ Type	Seite Page
001C	72
105	74-133, 136-138, 142-143,
106	193-195
107	201-205
108	211-213, 215-217, 219, 221-225, 228-229
109	150-164,
10P	236, 238, 240, 242-244
110	178-184
111	251-253, 255-256, 258, 260-265, 268-269
116	325-327, 329-331, 333-336, 339-340
11P	276, 278-279, 281, 283-285
125	250
145	324
962	38
963	39
A105	140-141
A109	166
A110	187-188
AIH	40
B105	16, 19, 21, 23-30, 33-34, 64, 134, 139
B105C	68-69, 135
B105TS	70-71
B106	192
B107	200
B108	210
B109	148-149, 165
B10P	234-235
B110	170-171, 186

Typ Type	Seite Page
B110C	173-174
B110TS	172
B111	248-249
B116	322-323
B11P	274-275
B18P	344
BGT	44-45, 47-48
BKT	46, 49-50
BU105	17, 20, 22
G	51
H105	35
HC105	36-37, 41
HF.N	65-66
IR105	31-32
KC760	43
L760	42
N	54-60, 176
S108	214, 218, 220, 226-227
S10P	237, 239, 241
S111	254, 257, 259, 266-267
S116	328, 332, 337-338
S11P	277, 280, 282
S18P	345, 347-348
VDI	67, 175
WFB.105	73
WFB.110	177
Z	52

FINDEN SIE JETZT IHRE PASSENDE WERKZEUGLÖSUNG.
FIND YOUR RIGHT TOOLING SOLUTION NOW.

horn-group.com

DEUTSCHLAND, STAMMSITZ
GERMANY, HEADQUARTERS
—
Hartmetall Werkzeugfabrik
Paul Horn GmbH
Horn-Straße 1
72072 Tübingen

Tel +49 7071 7004-0
Fax +49 7071 72893

info@de.horn-group.com
horn-group.com

KMINI100DE, 01/2023, Printed in Germany