



Ultramini



Minicut



Broaching



Rotaline



Mikromill



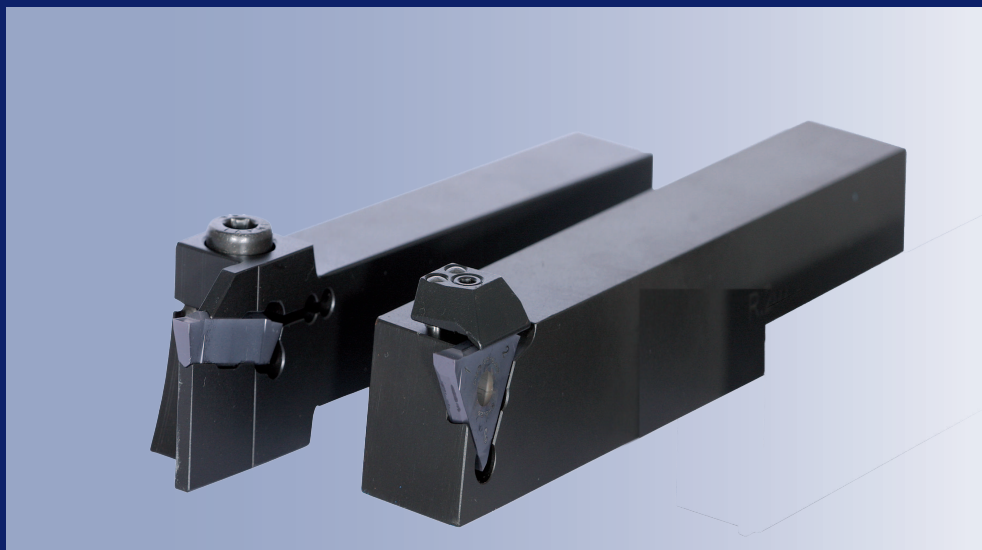
Minimill



System 500

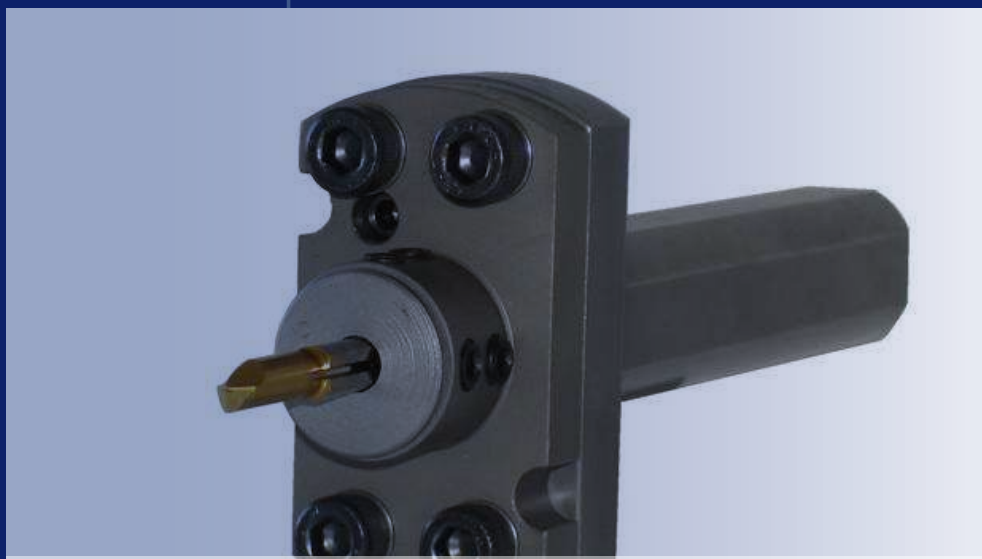


Swissline



SYSTEM DED / ZTP

2 & 3 CUTTING EDGE GROOVING



TOOL HOLDERS

HEIGHT ADJUSTABLE TOOL HOLDERS

Express Delivery Only Items

premium carbide cutting tools



Dümmel



 **Dümmel**[®]
WERKZEUGFABRIK

System DED: three-cutting edge grooving
System ZTP: two-cutting edge grooving





grooving with three-cutting
edges indexable inserts

System / system DED

grooving tools with three-cutting
edges indexable inserts

summary

grooving toolholder



type R/L 207 . . . 166
depth of groove
up to 6 mm
width of groove
0.5 - 6.3 mm



type R/L 0.780 . . . 168
depth of groove
up to 8 mm
width of groove
1.9 - 6.3 mm



type R/L 0.738 . . . 169
depth of groove
up to 6 mm
width of groove
0.5 - 6.3 mm



type R/L 0.618 . . . 170
width of groove
1.9 - 6.3 mm



type R/L 0.660 . . . 171
grooving boring bar
depth of groove
up to 5 mm
width of groove
0.5 - 6.3 mm



type R/L 0.736 . . . 173
depth of groove
up to 8 mm
width of groove
0.5 - 1.2 mm

System / system DED

summary

grooving tools with three-cutting
edges indexable inserts

grooving with three-cutting
edges indexable inserts



inserts for circlips



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DIN 471/472
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grooving with three-cutting edges indexable inserts

summary

System / system DED

grooving tools with three-cutting edges indexable inserts

inserts for



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up to 5 mm



parting-off ... 183
depth of groove
up to 8 mm



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up to 3.5 mm



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face grooving ... 186



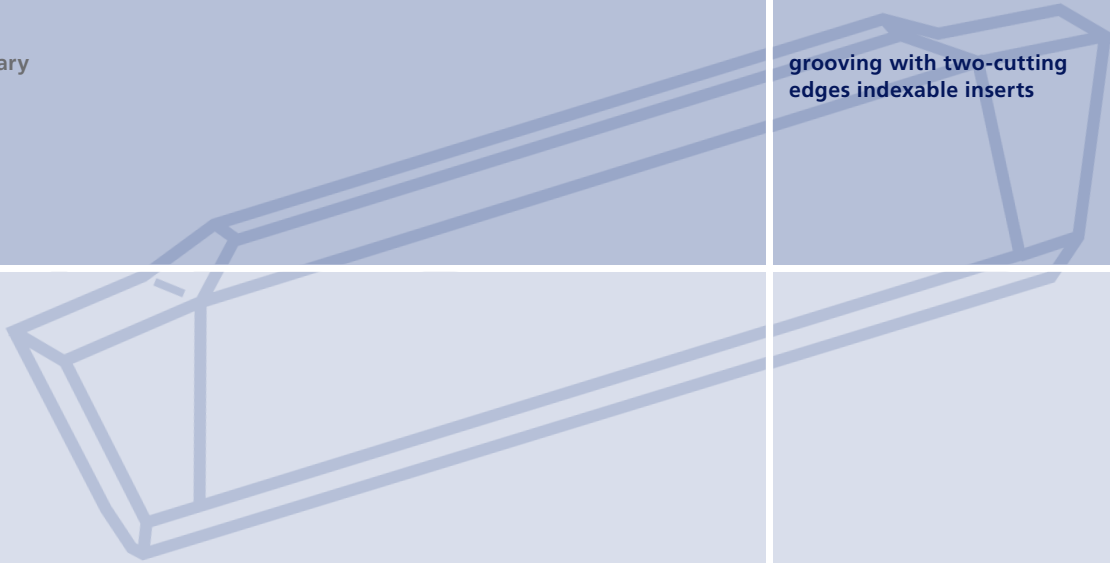
Set DED ... 187

System / system ZTP

grooving tools with two-cutting
edges indexable inserts

summary

grooving with two-cutting
edges indexable inserts



grooving toolholder



type R/L 212

... 188

depth of groove up to
12 mm, width of groove
2 - 6 mm



type R/L 220

... 190

depth of groove up to
20 mm, width of groove
2 - 6 mm



type R/L 225

... 192

depth of groove up to
25 mm, width of groove
2 - 6 mm



grooving boring bar

type R/L 0.428

... 194

depth of groove up to
15 mm, width of groove
2 - 6 mm
minimum bore \varnothing 46 mm



face grooving type 280

... 196

from outer groove \varnothing 40
mm
depth of groove up to 8
mm
width of groove 4 - 6 mm

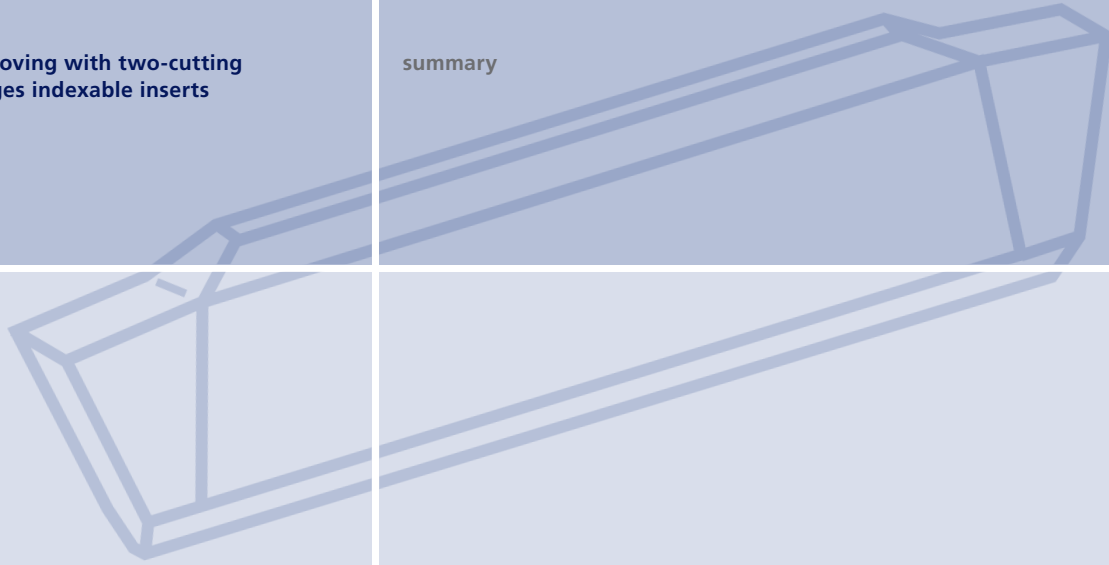


grooving with two-cutting edges indexable inserts

summary

System / system ZTP

grooving tools with two-cutting edges indexable inserts

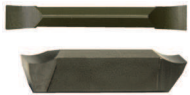


grooving toolholder



face grooving type 281 . . . 197
from outer groove \varnothing 40 mm
depth of groove up to 8 mm
width of groove 4 - 6 mm

grooving insert heavy duty groove



type ZTP...10-D . . . 198
with round chipbreaker



type ZTP...20-D . . . 199
with flat chipbreaker



type ZTP...30-D . . . 200
with chipformer



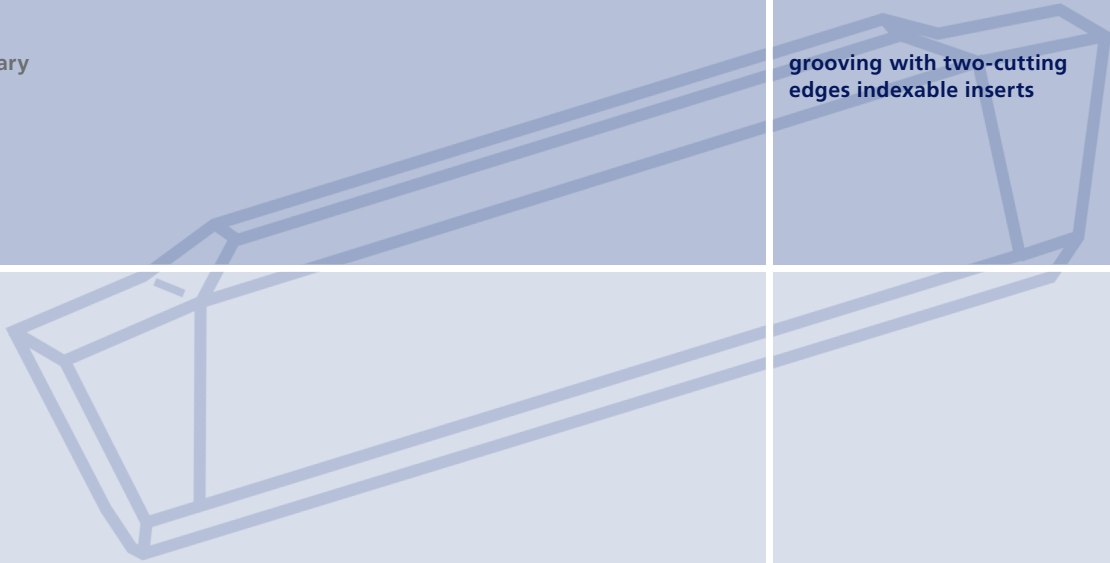
type ZTP.R . . . 202
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System / system ZTP

grooving tools with two-cutting
edges indexable inserts

summary

grooving with two-cutting
edges indexable inserts



grooving insert for



parting-off . . . 203
up to Ø 50 mm
width of groove 2 - 4 mm



**heavy duty groove
type ZTP...34-D** . . . 204
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**face grooving
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Technical instructions



TIPP!

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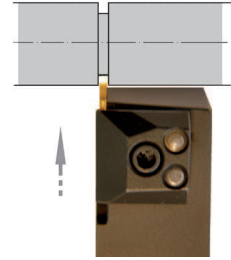
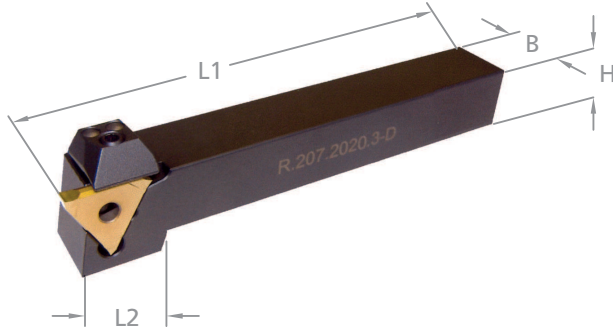
SYSTEM DED

grooving with three-cutting edges indexable inserts

Type 207

grooving toolholder

depth of groove up to 6 mm
width of groove 0.5 - 6.3 mm



center height JS14
righthand version (R): as shown
lefthand (L): mirror image
state right (R) or left (L) version
dimensions in mm

part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts							
							toolholder	claw	screw	guide pin				
R/L 207.1212.1-D	12	12	100		24	0.5 - 1.9	R/L 207 ... 1.2.3-D	PD21R/L	ZT200	6325				
R/L 207.1616.1-D	16	16	125		22									
R/L 207.2020.1-D	20	20	125	4	21									
R/L 207.2525.1-D	25	25	150		-									
R/L 207.3232.1-D	32	32	170		-									
R/L 207.1212.2-D	12	12	100		24	1.9 - 2.9					R/L 207 ... 1.2.3-D	PD21R/L	ZT200	6325
R/L 207.1616.2-D	16	16	125		22									
R/L 207.2020.2-D	20	20	125	6	21									
R/L 207.2525.2-D	25	25	150		-									
R/L 207.3232.2-D	32	32	170		-									
R/L 207.1212.3-D	12	12	100		24	2.9 - 3.9	R/L 207 ... 1.2.3-D	PD21R/L	ZT200	6325				
R/L 207.1616.3-D	16	16	125		22									
R/L 207.2020.3-D	20	20	125	6	21									
R/L 207.2525.3-D	25	25	150		-									
R/L 207.3232.3-D	32	32	170		-									

order-example:
righthand version:
R.207.1212.1-D

Type 207

grooving toolholder

depth of groove up to 6 mm
width of groove 0.5 - 6.3 mm

SYSTEM DED

grooving with three-cutting
edges indexable inserts



part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts			
							toolholder	claw	screw	guide pin
R/L 207.1616.4-D	16	16	125		22					
R/L 207.2020.4-D	20	20	125	6	21	3.9 - 6.3	R/L 207 ... 4-D	PD25R/L	ZT200	6325
R/L 207.2525.4-D	25	25	150		-					
R/L 207.3232.4-D	32	32	170		-					



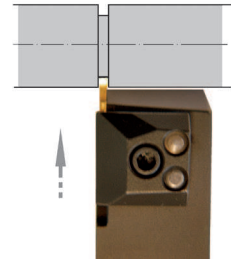
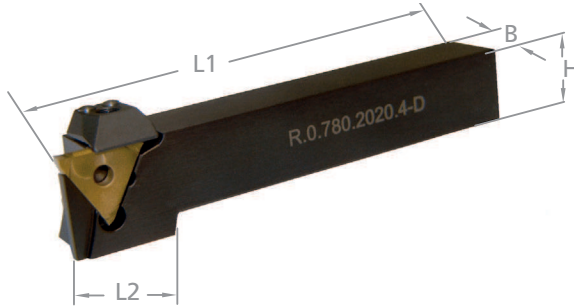
SYSTEM DED

grooving with three-cutting edges
indexable inserts

Type 0.780

grooving toolholder

depth of groove up to 8 mm
width of groove 1.9 - 6.3 mm
up to workpiece $\varnothing \leq 130$ mm



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts			
							toolholder	claw	screw	guide pin
R/L 0.780.2020.2-D	20	20	125	8	24	1.9 - 2.9	R/L 0.7802.3-D	PD21R/L	ZT200	6325
R/L 0.780.2525.2-D	25	25	150		-					
R/L 0.780.3232.2-D	32	32	170		-					
R/L 0.780.2020.3-D	20	20	125	8	24	2.9 - 3.9	R/L 0.7804-D	PD25R/L	ZT200	6325
R/L 0.780.2525.3-D	25	25	150		-					
R/L 0.780.3232.3-D	32	32	170		-					
R/L 0.780.2020.4-D	20	20	125	8	24	3.9 - 6.3	R/L 0.7804-D	PD25R/L	ZT200	6325
R/L 0.780.2525.4-D	25	25	150		-					
R/L 0.780.3232.4-D	32	32	170		-					

order-example:
righthand version:
R.0.780.2020.2-D

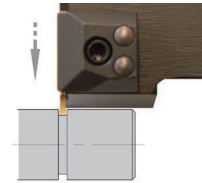
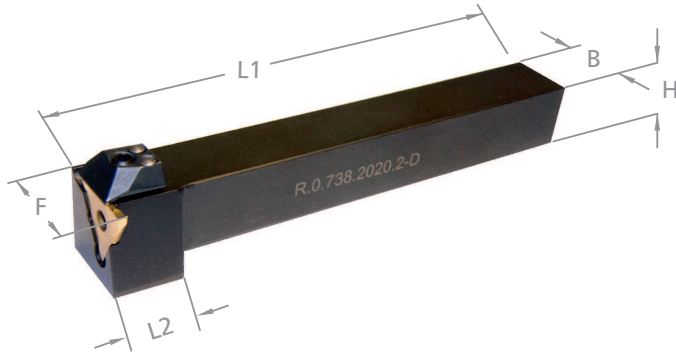
Type 0.738

grooving toolholder
corner moulded

depth of groove up to 6 mm
width of groove 0.5 - 6.3 mm

SYSTEM DED

grooving with three-cutting
edges indexable inserts



RH - toolholder = LH claw
LH - toolholder = RH claw

righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm



part number	H ± 0.1	B ± 0.1	L1	F ± 0.07	Stechtiefe T depth of groove T	L2	Spannbereich holding capacity	spare parts			
								Klemmhalter toolholder	Spannpratze claw	screw	guide pin
R/L 0.738.2020.1-D	20	20	150	27	4	20	0.5 - 1.9	R/L 7381.2.3-D	PD21R/L	ZT200	6325
R/L 0.738.2525.1-D	25	25		32							
R/L 0.738.2020.2-D	20	20	150	27	6	20	1.9 - 2.9	R/L 7384-D	PD25R/L	ZT200	6325
R/L 0.738.2525.2-D	25	25		32							
R/L 0.738.2020.3-D	20	20	150	27	6	20	2.9 - 3.9	R/L 7384-D	PD25R/L	ZT200	6325
R/L 0.738.2525.3-D	25	25		32							
R/L 0.738.2020.4-D	20	20	150	27	6	20	3.9 - 6.3	R/L 7384-D	PD25R/L	ZT200	6325
R/L 0.738.2525.4-D	25	25		32							

order-example:
righthand version:
R.0.738.2020.1-D

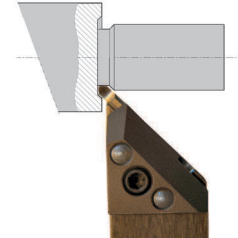
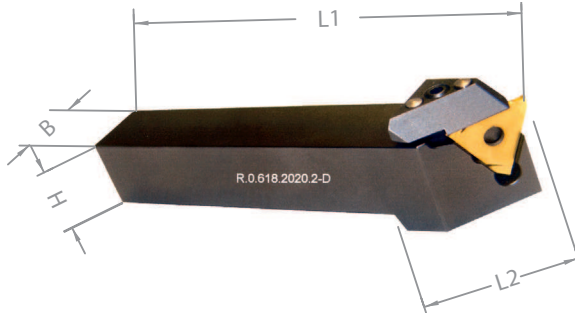


SYSTEM DED

grooving with three-cutting edges
indexable inserts

Type 0.618

grooving toolholder



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

part number	H ± 0.1	B ± 0.1	L1	L2	holding capacity	spare parts			
						toolholder	claw	screw	guide pin
R/L 0.618.2020.2-D	20	20	125	30	1.9 - 2.9	R/L 0.6182.3-D	PD22R/L	ZT200	6325
R/L 0.618.2525.2-D	25	25	150	–					
R/L 0.618.3232.2-D	32	32	170	–					
R/L 0.618.2020.3-D	20	20	125	30	2.9 - 3.9	R/L 0.6184-D	PD23R/L	ZT200	6325
R/L 0.618.2525.3-D	25	25	150	–					
R/L 0.618.3232.3-D	32	32	170	–					
R/L 0.618.2020.4-D	20	20	125	30	3.9 - 6.3	R/L 0.6184-D	PD23R/L	ZT200	6325
R/L 0.618.2525.4-D	25	25	150	–					
R/L 0.618.3232.4-D	32	32	170	–					

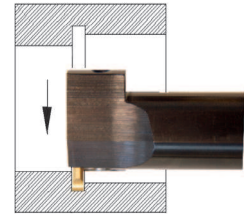
order-example:
righthand version:
R.0.618.2020.2-D

Type 0.660

grooving boring bar

SYSTEM DED

grooving with three-cutting edges indexable inserts



Rechts (R): wie gezeichnet
Links (L): spiegelbildlich

Ausführung rechts (R)
oder links (L) angeben

Abmessungen in mm

righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm



part number	D1 g7		min. Ø Bohrung minimum bore Ø	L2	holding capacity	spare parts		
	D1	L1				toolholder	claw	screw
R/L 0.660.0025.1-D	25	170	46	20	0.5 - 1.9	R/L 0.660 ... -D	PD0.660.2	ZT300
R/L 0.660.0032.1-D	32	200	46	20				
R/L 0.660.0040.1-D	40	250	46	-				
R/L 0.660.0025.2-D	25	170	46	20	1.9 - 2.9			
R/L 0.660.0032.2-D	32	200	46	20				
R/L 0.660.0040.2-D	40	250	46	-				
R/L 0.660.0025.3-D	25	170	46	20	2.9 - 3.9			
R/L 0.660.0032.3-D	32	200	46	20				
R/L 0.660.0040.3-D	40	250	46	-				

Bestellbeispiel:
für rechte Ausführung:
R.0.660.0025.1-D

order-example:
righthand version:
R.0.660.0025.1-D



SYSTEM DED

grooving with three-cutting edges indexable inserts

Type 0.660

grooving boring bar



part number	D1 g7		min. Ø Bohrung minimum bore Ø	L2	holding capacity	spare parts		
	L1					toolholder	claw	screw
R/L 0.660.0025.4-D	25	170	46	20	3.9 - 6.3	R/L 0.660 ... -	PD0.660.2	ZT300
R/L 0.660.0032.4-D	32	200	46	20				
R/L 0.660.0040.4-D	40	250	46	-				
minimum bore Ø			46	50	60	80	100	
max. depth of groove			2	3	4	4.5	5	

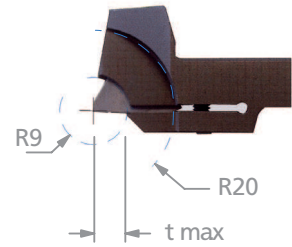
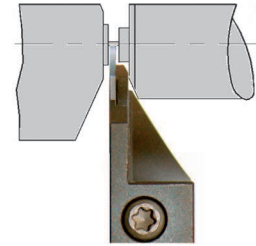
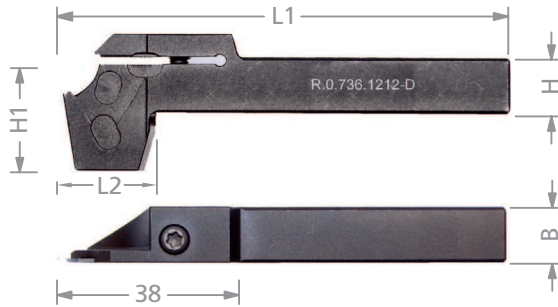
Type 0.736

grooving toolholder

for parting-off
depth of groove up to 8 mm
width of groove 0.5 - 1.2 mm

SYSTEM DED

grooving with three-cutting
edges indexable inserts



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm



part number	H ± 0.1		B ± 0.1	L1	L2	t max.	for insert	spare parts		
	H1							toolholder	screw	wrench
R/L 0.736.1212-D	12	24	12	95	19.5	8.0	R/L DED.0805.00-D R/L DED.0808.00-D R/L DED.0510.00-D R/L DED.0512.00-D R/L DED.1210.00-D	R/L 0.736.1212-D	M4-MC	TR15
R/L 0.736.1616-D	16	24	16	95	19.5	8.0	R/L DED.0805.00-D R/L DED.0808.00-D R/L DED.0510.00-D R/L DED.0512.00-D R/L DED.1210.00-D	R/L 0.736.1616-D	M4-MC	TR15

order-example:
righthand version:
R.0.736.1212-D



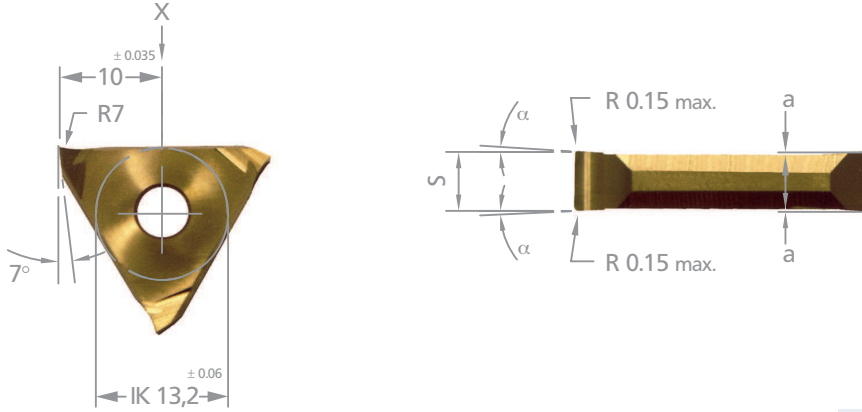
SYSTEM DED

grooving with three-cutting edges indexable inserts

System / system DED

indexable insert

for circlips DIN 471 / 472



dimensions in mm

inserts can be used in RH and LH toolholders as well as in boring bars

for toolholder type:

207
0.780
0.738
0.618
0.660

part number	groove dimension	s - 0.05	clear angle			toolholder type	holding capacity
			lower	α	$a \pm 0.02$		
DED.0050.00-D	0.5	0.57	0.5°	1°	0.07	.1-D	0.5 - 1.9
DED.0060.00-D	0.6	0.67	0.5°	1°	0.07		
DED.0070.00-D	0.7	0.77	0.5°	1°	0.08		
DED.0080.00-D	0.8	0.87	0.5°	1°	0.08		
DED.0090.00-D	0.9	0.97	0.5°	1°	0.08		
DED.0100.00-D	1.0	1.07	0.5°	1°	0.09		
DED.0110.00-D	1.1	1.24	3°	3°	0.15		
DED.0130.00-D	1.3	1.44	3°	3°	0.15		
DED.0160.00-D	1.6	1.74	3°	3°	0.2		
DED.0185.00-D	1.85	1.99	3°	3°	0.2		

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.0050.00-D/AL41F

System / system DED

indexable insert

for circlips DIN 471 / 472

SYSTEM DED

grooving with three-cutting
edges indexable inserts



part number	groove dimension	s - 0.05	clear angle			toolholder type	holding capacity
			lower	α	$\alpha \pm 0.02$		
DED.0215.00-D	2.15	2.29	3°	3°	0.2	2-D	1.9 - 2.9
DED.0265.00-D	2.65	2.79	3°	3°	0.2		
DED.0315.00-D	3.15	3.29	3°	3°	0.2	.3-D	2.9 - 3.9
DED.0415.00-D	4.15	4.29	3°	3°	0.2	.4-D	3.9 - 6.3
DED.0515.00-D	5.15	5.29	3°	3°	0.2		



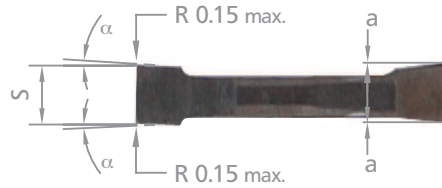
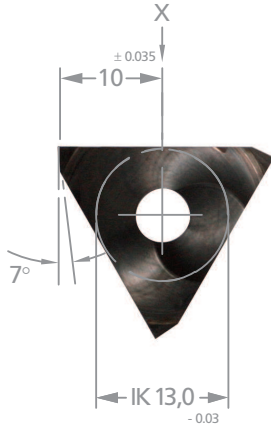
SYSTEM DED

grooving with three-cutting edges indexable inserts

System / system DED

indexable insert for interrupted cuts

for circlips DIN 471 / 472



dimensions in mm

inserts can be used in RH and LH toolholders as well as in boring bars

for toolholder type:

207
0.780
0.738
0.618
0.660

part number	groove dimension	s - 0.05	clear angle			toolholder type	holding capacity
			lower	α	a \pm 0.02		
DED.0100.NG-D	1.0	1.07	0.5°	1°	0.09	.1-D	0.5 - 1.9
DED.0110.NG-D	1.1	1.24	3°	3°	0.15		
DED.0130.NG-D	1.3	1.44	3°	3°	0.15		
DED.0160.NG-D	1.6	1.74	3°	3°	0.2		
DED.0185.NG-D	1.85	1.99	3°	3°	0.2		
DED.0215.NG-D	2.15	2.29	3°	3°	0.2	.2-D	1.9 - 2.9
DED.0265.NG-D	2.65	2.79	3°	3°	0.2		
DED.0315.NG-D	3.15	3.29	3°	3°	0.2	.3-D	2.9 - 3.9
DED.0415.NG-D	4.15	4.29	3°	3°	0.2	.4-D	3.9 - 6.3
DED.0515.NG-D	5.15	5.29	3°	3°	0.2		

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.0100.NG-D/AL41F

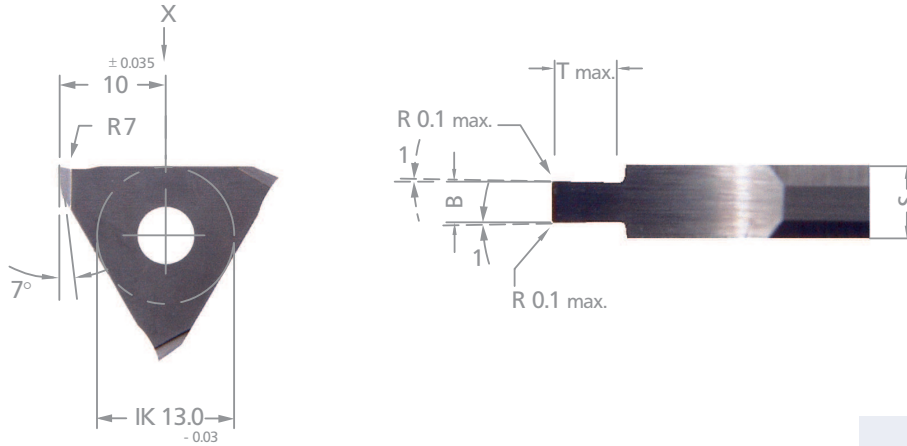
System / system DED

for circlips DIN 471 / 472
external and internal

indexable insert

SYSTEM DED

grooving with three-cutting
edges indexable inserts



dimensions in mm

for toolholder
type:

- 207
- 148
- 0.738
- 151
- 0.660
- 153



part number	groove dimension	dimensions in mm			toolholder type	holding capacity
		B - 0.03	t max.	s ± 0.02		
DED.0050.13-D	0.5	0.55	0.7	1.3	.1-D	0.5 - 1.9
DED.0060.13-D	0.6	0.65	0.8	1.3		
DED.0070.13-D	0.7	0.75	1.1	1.3		
DED.0080.13-D	0.8	0.85	1.2	1.3		
DED.0090.13-D	0.9	0.95	1.4	1.3		
DED.0100.13-D	1.0	1.05	1.6	1.3		

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.0050.13-D/AL41F



SYSTEM DED

Einstecken mit dreischneidigen Wendeplatten

grooving with three-cutting edges indexable inserts

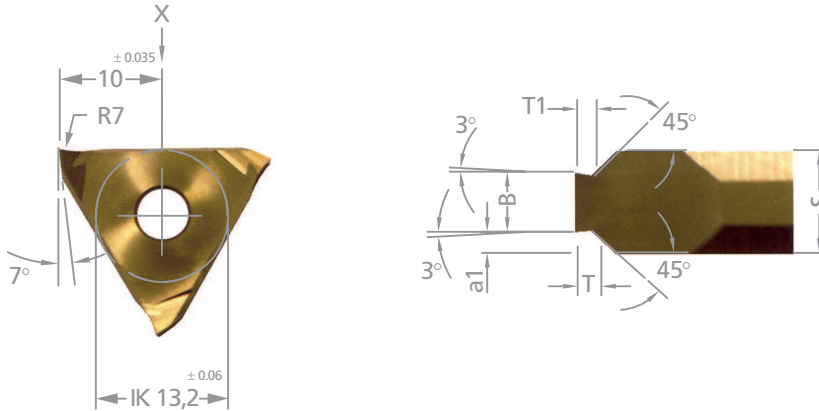
System / system DED

Wendeschneidplatte

für Sicherungsringe DIN 471 / 472 mit Nutaußenkantenfasung

indexable insert

for circlips DIN 471 / 472 with chamfers



dimensions in mm

inserts can be used in RH and LH toolholders as well as in boring bars

for toolholder type:

207
0.780
0.738
0.618
0.660

part number	Nut-Maß groove dimension	Nut-Maß groove dimension					toolholder type	holding capacity
		B - 0.05	T1 - 0.05	T	s ± 0.02	a1 ± 0.02		
DED.1101.25-D	1.1	1.24	0.19	0.2	2.5	0.64	.2-D	1.9 - 2.9
DED.1102.25-D	1.1	1.24	0.24	0.25	2.5	0.64		
DED.1103.25-D	1.1	1.24	0.29	0.3	2.5	0.64		
DED.1104.25-D	1.1	1.24	0.33	0.35	2.5	0.64		
DED.1105.25-D	1.1	1.24	0.36	0.4	2.5	0.64		
DED.1306.25-D	1.3	1.44	0.45	0.55	2.5	0.54		
DED.1607.33-D	1.6	1.74	0.6	0.7	3.3	0.79	.3-D	2.9 - 3.9
DED.1608.33-D	1.6	1.74	0.75	0.85	3.3	0.79		
DED.1609.33-D	1.6	1.74	0.85	1.0	3.3	0.79		
DED.1810.33-D	1.85	1.99	0.85	1.0	3.3	0.67		
DED.1812.33-D	1.85	1.99	1.1	1.25	3.3	0.67		

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.1101.25-D/AL41F

System / system DED

indexable insert

for circlips DIN 471 / 472
with chamfers

SYSTEM DED

grooving with three-cutting
edges indexable inserts



part number	Nut-Maß groove dimension	B - 0.05	T1 - 0.05	T	s ± 0.02	a1 ± 0.02	toolholder type	holding capacity
DED.2115.43-D	2.15	2.29	1.35	1.5	4.3	1.02	.4-D	3.9 - 6.3
DED.2616.43-D	2.65	2.79	1.35	1.5	4.3	0.77		
DED.2617.43-D	2.65	2.79	1.6	1.75	4.3	0.77		
DED.3118.53-D	3.15	3.29	1.6	1.75	5.3	1.02		
DED.4120.53-D	4.15	4.29	1.85	2.0	5.3	0.52		
DED.4125.53-D	4.15	4.29	2.35	2.5	5.3	0.52		
DED.5130.63-D	5.15	5.29	2.85	3.0	6.3	0.52		

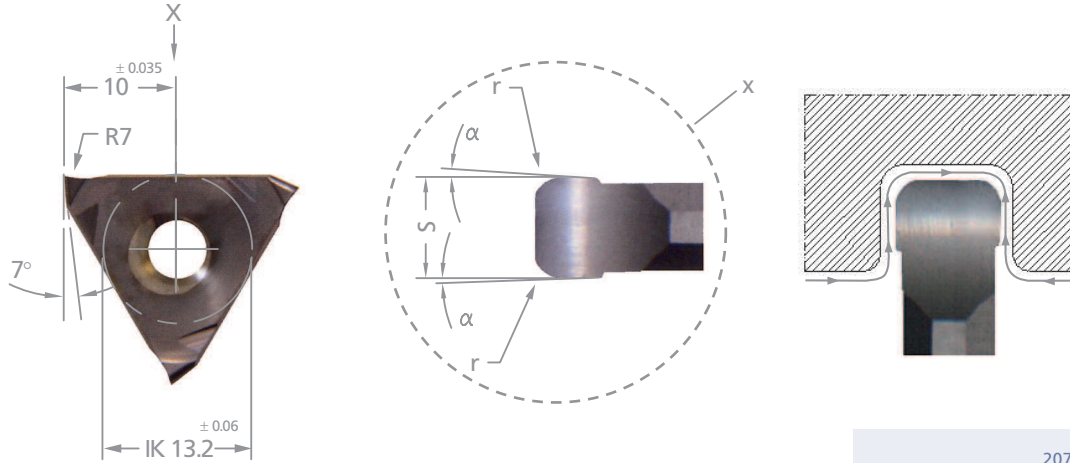


SYSTEM DED

grooving with three-cutting edges indexable inserts

System / system DED

indexable insert for finishing



for toolholder type:
207
0.738

dimensions in mm

inserts can be used in RH and LH toolholders as well as in boring bars

part number	S + 0.03	r	clear angle		toolholder type	holding capacity
			lower	α		
DED.0150.02-D	1.5	0.2	4°	3°	.1-D	0.5 - 1.9
DED.0200.02-D	2.0	0.2	4°	3°		
DED.0200.04-D	2.0	0.4	4°	3°		
DED.0300.02-D	3.0	0.2	4°	3°	.2-D	1.9 - 2.9
DED.0300.06-D	3.0	0.6	4°	3°		
DED.0300.08-D	3.0	0.8	4°	3°		
DED.0400.02-D	4.0	0.2	4°	3°	.3-D	2.9 - 3.9
DED.0400.08-D	4.0	0.8	4°	3°		
DED.0400.12-D	4.0	1.2	4°	3°		

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.0150.02-D/AL41F

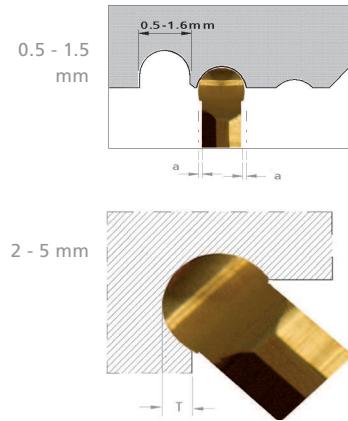
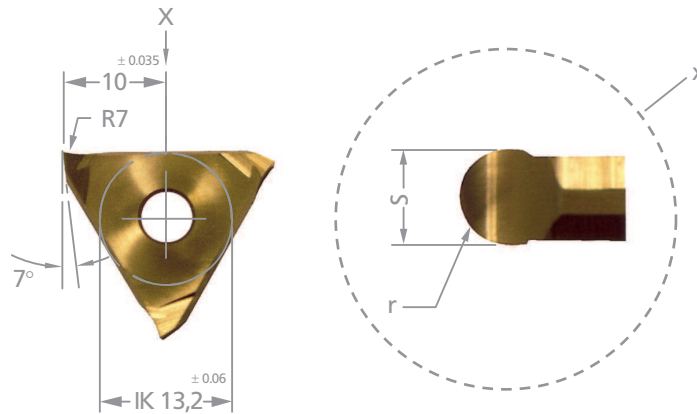
System / system DED

indexable insert
for corner reliefs

full radius and grooving
width of groove 0.5 - 5 mm

SYSTEM DED

grooving with three-cutting
edges indexable inserts



for toolholder
type:
207
0.738

dimensions in mm

inserts can be used in RH and LH
toolholders as well as in boring
bars



part number	r	S ± 0.05	T	toolholder type	holding capacity
DED.0002.05-D	0.25	0.5	0.2	.1-D	0.5 - 1.9
DED.0005.10-D	0.5	1.0	0.35		
DED.0006.12-D	0.6	1.2	0.4		
DED.0008.16-D	0.8	1.6	0.55		
DED.0010.20-D	1.0	2.0	0.7	.2-D	1.9 - 2.9
DED.0012.25-D	1.25	2.5	0.85		
DED.0015.30-D	1.5	3.0	1.0	.3-D	2.9 - 3.9
DED.0020.40-D	2.0	4.0	1.2	.4-D	3.9 - 6.3
DED.0025.50-D	2.5	5.0	1.5		

More carbide grades you can find in the grades
summary in the chapter »technical instructions«
and in the price list.

order-example:
grade AL41F:
DED.0010.20-D/AL41F



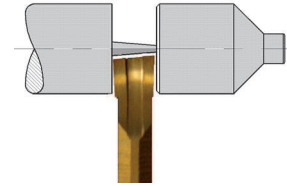
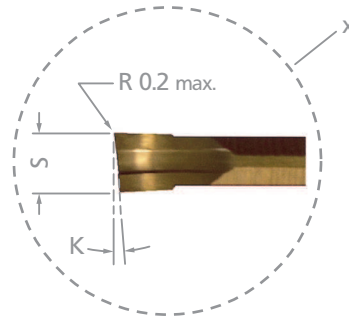
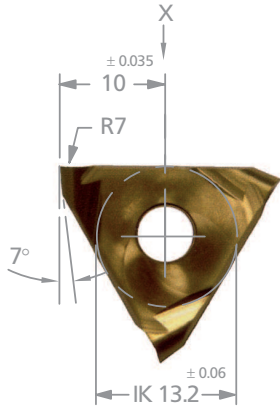
SYSTEM DED

grooving with three-cutting edges indexable inserts

System / system DED

indexable insert for parting-off with chipformer

depth of groove up to 5 mm
width of groove 1.99 - 2.79 mm



righthand version (R)

righthand version (R): as shown

state right (R) or left (L) version

dimensions in mm

RH inserts can be used in RH and LH inserts in LH toolholders

for toolholder type:
207
0.780

part number

S - 0.05

K

toolholder type

holding capacity

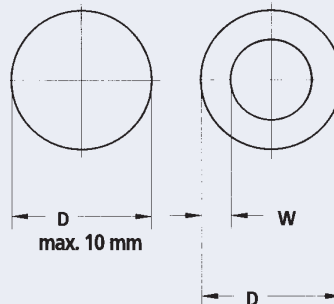
R/L DED.0518.00-D 1.99 5°

.1-D 0.5 -1.9

R/L DED.0521.00-D 2.29 5°

R/L DED.0526.00-D 2.79 5°

.2-D 1.9 - 2.9



$D \geq 50 \text{ mm}$ $W \approx 4 \text{ mm}$
 $D \leq 50 \text{ mm}$ $W \approx 5 \text{ mm}$

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
righthand version and grade AL41F:
R.DED.0518.00-D/AL41F

System / system DED

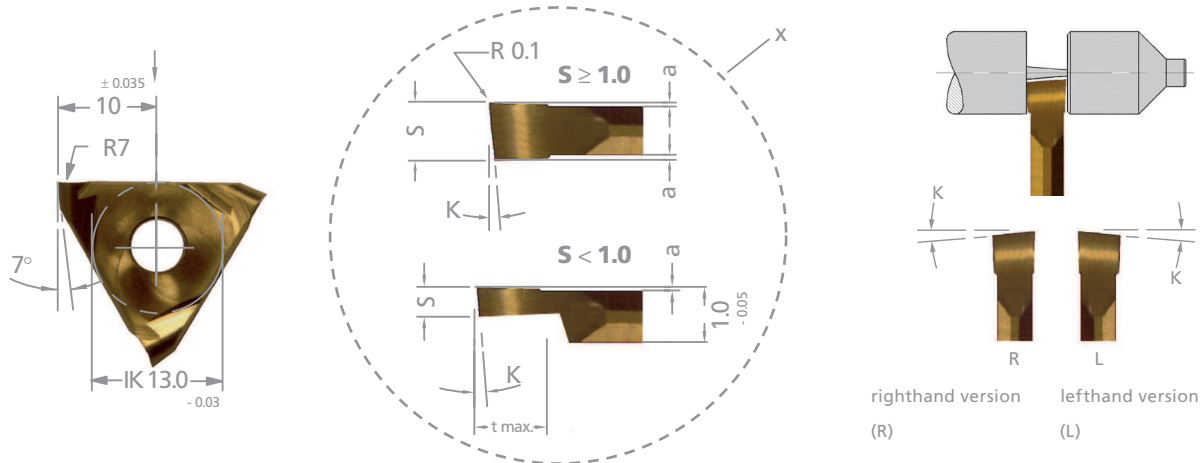
indexable insert for parting-off
without chipformer

depth of groove up to 8 mm
width of groove 0.5 - 1.2 mm

X

SYSTEM DED

grooving with three-cutting
edges indexable inserts



righthand version (R) lefthand version (L)

righthand version (R): as shown
state right (R) or left (L) version

dimensions in mm

RH inserts can be used in RH
and LH inserts in LH toolholders

for toolholder
type: 207
 0.736



part number

S + 0.05

K

a

t max.

toolholder type

holding capacity

R/L DED.0805.00-D	0.5	8°	0.1	1.0
R/L DED.0808.00-D	0.8	8°	0.1	1.5
R/L DED.0510.00-D	1.0	5°	0.1	8.0
R/L DED.0512.00-D	1.2	5°	0.2	8.0
R/L DED.1210.00-D	1.0	12°	0.1	8.0
R/L DED.0614.00-D	1.4	6°	0.2	6.0

0.736

0.5 -1.5

207

0.5 -1.9

More carbide grades you can find in the grades
summary in the chapter »technical instructions«
and in the price list.

order-example:
righthand version and grade AL41F:
R.DED.0805.00-D/AL41F



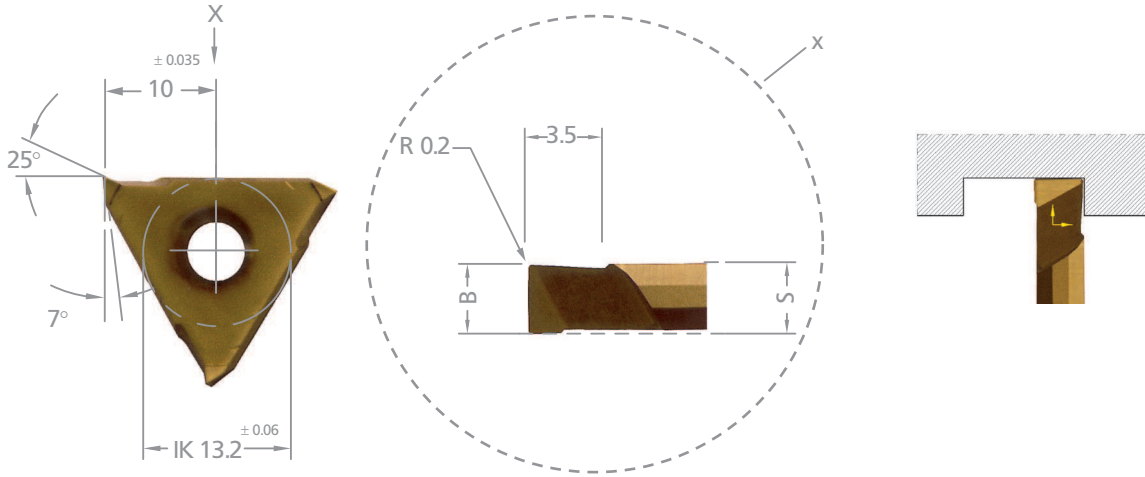
SYSTEM DED

grooving with three-cutting edges indexable inserts

System / system DED

indexable insert for grooving and turning

depth of groove up to 3.5 mm



lefthand version (L): as shown
righthand (R): mirror image

dimensions in mm

inserts can be used in RH and LH toolholders

for toolholder type:
207
0.780
0.738

part number

B

S + 0.05

toolholder type

holding capacity

R/L DED.3031.33-D 3.29 3.3

.2-D

2.9 - 3.9

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
righthand version and grade AL41F:
R.DED.3031.33-D/AL41F

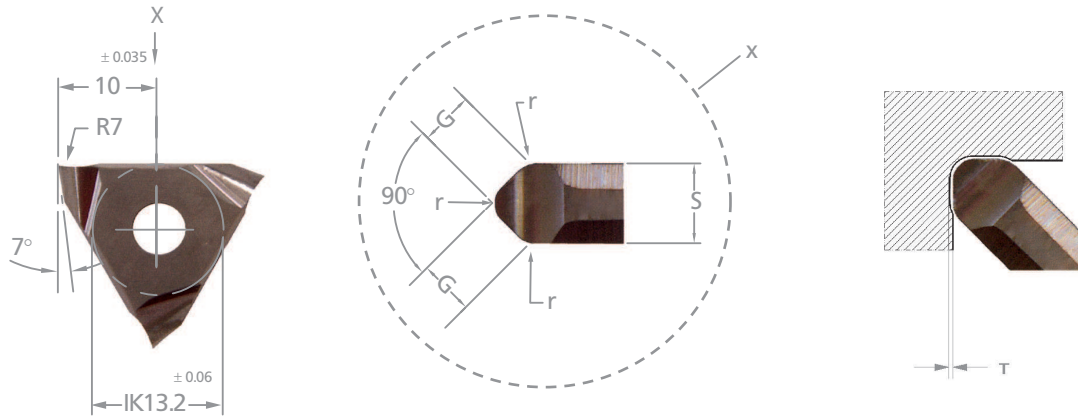
System / system DED

SYSTEM DED

grooving with three-cutting edges indexable inserts

indexable insert for corner reliefs

similar to DIN 509 Type F



207
0.738

for toolholder type:

dimensions in mm

inserts can be used in RH and LH toolholders as well as in boring bars



part number

r T G S

toolholder type

holding capacity

DED.0602.24-D	0.6	0.2	1.7	2.4
DED.0603.33-D	0.6	0.3	2.3	3.3
DED.1004.50-D	1.0	0.4	3.6	5.0
DED.1002.30-D	1.0	0.2	2.1	3.0
DED.1603.50-D	1.6	0.3	3.6	5.0

.2-D	1.9 - 2.9
.3-D	2.9 - 3.9
.4-D	3.9 - 6.3
.3-D	2.9 - 3.9
.4-D	3.9 - 6.3

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
DED.0602.24-D/AL41F



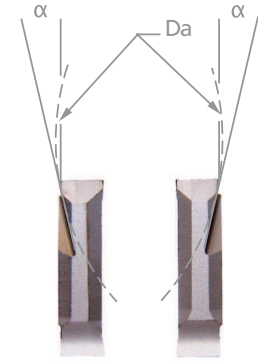
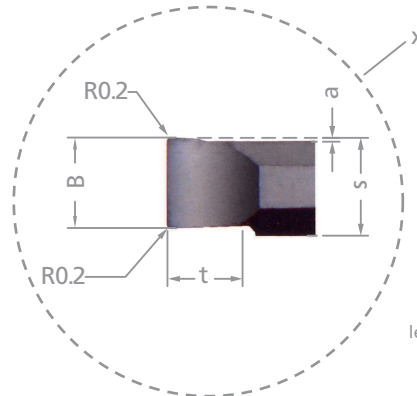
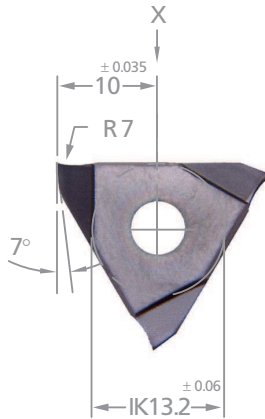
SYSTEM DED

grooving with three-cutting edges
indexable inserts

System / system DED

indexable insert
for face grooving

depth of groove up to 3.5 mm
width of groove 1.5 - 5.0 mm
outer $\text{Da} \geq 20$ mm



lefthand version (L) righthand version (R)

state right (R) or left (L) version

dimensions in mm

207

for toolholder
type:

part number

	B	S	t	a	Da Ø
R/L DED.2015.2-D	1.5	2.7	2.0	0.2	20
R/L DED.3020.2-D	2.0	2.7	3.0	0.2	30
R/L DED.3030.2-D	3.0	3.7	3.0	0.2	30
R/L DED.3040.2-D	4.0	4.3	3.5	0.2	30
R/L DED.3050.2-D	5.0	5.3	3.5	0.2	30

α

capacity

	α	capacity
R/L DED.2015.2-D	16°	.2-D
R/L DED.3020.2-D	12°	.2-D
R/L DED.3030.2-D	12°	.3-D
R/L DED.3040.2-D	12°	.4-D
R/L DED.3050.2-D	12°	.4-D

external machining:
use RH inserts in RH toolholders,
LH inserts in LH toolholders

internal machining:
use RH inserts in LH toolholders,
LH inserts in RH toolholders

order-example:
righthand version and grade AL41F:
R.DED.2015.2-D/AL41F

SET DED

Wendeschneidplatten und Halter im Set

Tool holder and inserts as set

width of groove 0.5 - 1.85 mm

SYSTEM DED

Einstecken mit dreischneidigen Wendeleplatten

grooving with three-cutting edges indexable inserts



part number	Content	K10F AL41F P18C	for toolholder type
SET-DED1	1x R.207.2020.1		
	1x DED.0050.00	●	.1-D
	1x DED.0060.00	●	.1-D
	1x DED.0070.00	●	.1-D
	1x DED.0080.00	●	.1-D
	1x DED.0090.00	●	.1-D
	1x DED.0100.00	●	.1-D
	1x DED.0110.00	●	.1-D
	1x DED.0130.00	●	.1-D
	1x DED.0150.00	●	.1-D
	1x DED.0185.00	●	.1-D



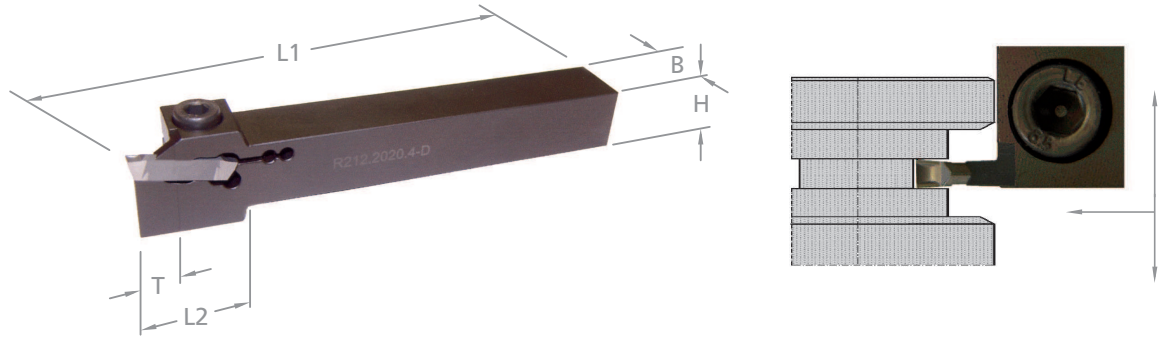
SYSTEM ZTP

grooving with two-cutting edges
indexable inserts

Type 212

grooving toolholder

depth of groove up to 12 mm
width of groove 2 - 6 mm



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts								
							toolholder	screw	key						
R/L 212.1616.2-D	16	16	125		35	2.0 - 3.0	R/L 212. ...	912	911						
R/L 212.2020.2-D	20	20	150	12	35										
R/L 212.2525.2-D	25	25	150		-										
R/L 212.1616.3-D	16	16	125		35	3.0 - 4.0				R/L 212. ...	912	911			
R/L 212.2020.3-D	20	20	150	12	35										
R/L 212.2525.3-D	25	25	150		-										
R/L 212.3225.3-D	32	25	170		-	4.0 - 5.0							R/L 212. ...	912	911
R/L 212.2020.4-D	20	20	150		35										
R/L 212.2525.4-D	25	25	150	12	-										
R/L 212.3225.4-D	32	25	170		-		R/L 212. ...	912	911						

order-example:
righthand version:
R.212.1616.2-D

Type 212

grooving toolholder

depth of groove up to 12 mm
width of groove 2 - 6 mm

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



part number	H ± 0.1	B ± 0.1	L1	depth of groove T		holding capacity	spare parts		
					L2		toolholder	screw	key
R/L 212.2020.5-D	20	20	150		35	5.0 - 5.5	R/L 212. ...	912	911
R/L 212.2525.5-D	25	25	150	12	-				
R/L 212.3225.5-D	32	25	170		-				
R/L 212.2020.6-D	20	20	150		35	5.6 - 6.3			
R/L 212.2525.6-D	25	25	150	12	-				
R/L 212.3225.6-D	32	25	170		-				





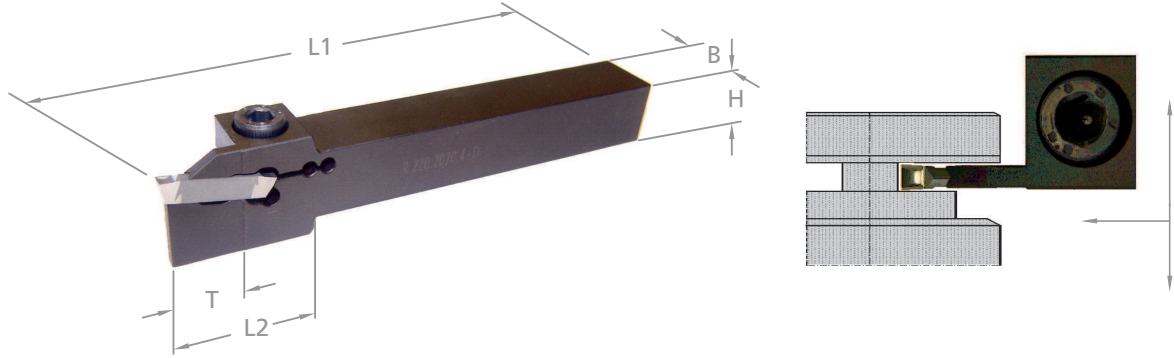
SYSTEM ZTP

grooving with two-cutting edges
indexable inserts

Type 220

grooving toolholder

depth of groove up to 20 mm
width of groove 2 - 6 mm



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

up to: Ø 50 mm .2 / .3
Ø 100 mm .4 / .5 / .6

part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	Ersatzteile / spare parts								
							toolholder	screw	key						
R/L 220.1616.2-D	16	16	125		35	2.0 - 3.0	R/L 220. ...	912	911						
R/L 220.2020.2-D	20	20	150	20	35										
R/L 220.2525.2-D	25	25	150		-										
R/L 220.1616.3-D	16	16	125		35	3.0 - 4.0				R/L 220. ...	912	911			
R/L 220.2020.3-D	20	20	150	20	35										
R/L 220.2525.3-D	25	25	150		-										
R/L 220.3225.3-D	32	25	170		-	4.0 - 5.0							R/L 220. ...	912	911
R/L 220.2020.4-D	20	20	150		35										
R/L 220.2525.4-D	25	25	150	20	-										
R/L 220.3225.4-D	32	25	170		-		R/L 220. ...	912	911						

order-example:
righthand version:
R.220.1616.2-D

Type 220

grooving toolholder

depth of groove up to 20 mm
width of groove 2 - 6 mm

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts		
							toolholder	screw	key
R/L 220.2020.5-D	20	20	150		35	5.0 - 5.5	R/L 220. ...	912	911
R/L 220.2525.5-D	25	25	150	20	-				
R/L 220.3225.5-D	32	25	170		-				
R/L 220.2020.6-D	20	20	150		35	5.6 - 6.3			
R/L 220.2525.6-D	25	25	150	20	-				
R/L 220.3225.6-D	32	25	170		-				





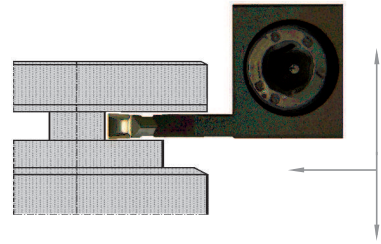
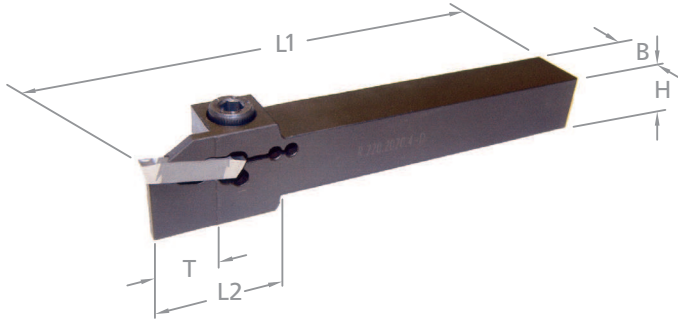
SYSTEM ZTP

grooving with two-cutting
edges indexable inserts

Type 225

grooving toolholder

depth of groove up to 25 mm
width of groove 2 - 6 mm



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

up to: Ø 50 mm .2 / .3
Ø 100 mm .4 / .5 / .6

part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts		
							toolholder	screw	key
R/L 225.2020.2-D	20	20	150		43	2.0 - 3.0	R/L 225. ...	912	911
R/L 225.2525.2-D	25	25	150	25	-				
R/L 225.3225.2-D	32	25	170		-				
R/L 225.2020.3-D	20	20	150		43	3.0 - 4.0			
R/L 225.2525.3-D	25	25	150	25	-				
R/L 225.3225.3-D	32	25	170		-				
R/L 225.2020.4-D	20	20	150		43	4.0 - 5.0			
R/L 225.2525.4-D	25	25	150	25	-				
R/L 225.3225.4-D	32	25	170		-				

order-example:
righthand version:
R.225.2020.2-D

Type 225

grooving toolholder

depth of groove up to 25 mm
width of groove 2 - 6 mm

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



part number	H ± 0.1	B ± 0.1	L1	depth of groove T	L2	holding capacity	spare parts		
							toolholder	screw	key
R/L 225.2020.5-D	20	20	150		43	5.0 - 5.5	R/L 225. ...	912	911
R/L 225.2525.5-D	25	25	150	25	-				
R/L 225.3225.5-D	32	25	170		-				
R/L 225.2020.6-D	20	20	150		43	5.6 - 6.3			
R/L 225.2525.6-D	25	25	150	25	-				
R/L 225.3225.6-D	32	25	170		-				



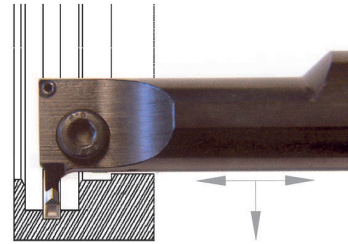
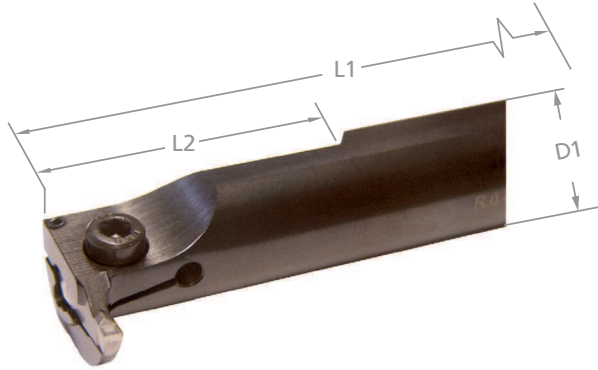
SYSTEM ZTP

grooving with two-cutting
edges indexable inserts

Type 0.428

grooving boring bar

minimum bore \varnothing 46 mm
depth of groove up to 15 mm
width of groove 2 - 6 mm



righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

part number	D1 g7	L1	D min.	depth of groove T	L2	holding capacity	spare parts		
							toolholder	screw	key
R/L.0.428.0032.2-D	32	200	46	11.5	70	2.0 - 3.0	R/L 428. ...	912	911
R/L.0.428.0040.2-D	40	250	50	11.5	80				
R/L.0.428.0050.2-D	50	250	60	15.0	100				
R/L.0.428.0032.3-D	32	200	46	11.5	70	3.0 - 4.0			
R/L.0.428.0040.3-D	40	250	50	11.5	80				
R/L.0.428.0050.3-D	50	250	60	15.0	100				
R/L.0.428.0032.4-D	32	200	46	11.5	70	4.0 - 5.0			
R/L.0.428.0040.4-D	40	250	50	11.5	80				
R/L.0.428.0050.4-D	50	250	60	15.0	100				

Bestellbeispiel:
für rechte Ausführung:
R.428.0032.2-D

order-example:
righthand version:
R.428.0032.2-D

Type 0.428

grooving boring bar

minimum bore Ø 46 mm
depth of groove up to 15 mm
width of groove 2 - 6 mm

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



part number	D1 g7	L1	D min.	depth of groove T	L2	holding capacity	spare parts		
							toolholder	screw	key
R/L.0.428.0032.5-D	32	200	46	11.5	70	5.0 - 5.5	R/L 428. ...	912	911
R/L.0.428.0040.5-D	40	250	50	11.5	80				
R/L.0.428.0050.5-D	50	250	60	15.0	100				
R/L.0.428.0032.6-D	32	200	46	11.5	70	5.6 - 6.3			
R/L.0.428.0040.6-D	40	250	50	11.5	80				
R/L.0.428.0050.6-D	50	250	60	15.0	100				



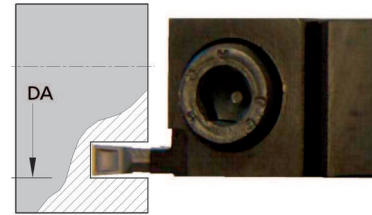
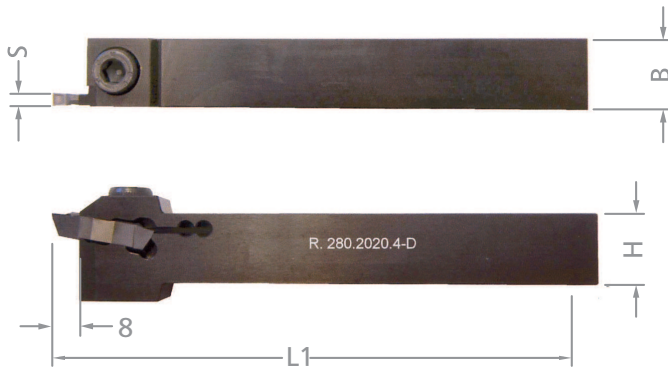
SYSTEM ZTP

grooving with two-cutting
edges indexable inserts

Type 280

face grooving toolholder

for indexable insert type ZTP
(face grooving)



DA = Outer-Ø of groove

righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

minimum bore Ø DA = 40 mm

part number	H ± 0.1			L1	holding capacity
	B ± 0.1				
R/L 280.2020.4-D	20	20	150	4.0 - 5.0	
R/L 280.2525.4-D	25	25	150	4.0 - 5.0	
R/L 280.2020.5-D	20	20	150	5.0 - 5.5	
R/L 280.2525.5-D	25	25	150	5.0 - 5.5	
R/L 280.2020.6-D	20	20	150	5.6 - 6.3	
R/L 280.2525.6-D	25	25	150	5.6 - 6.3	

order-example:
righthand version:
R.280.2020.4-D

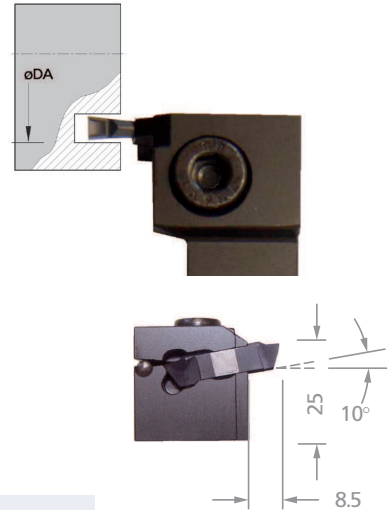
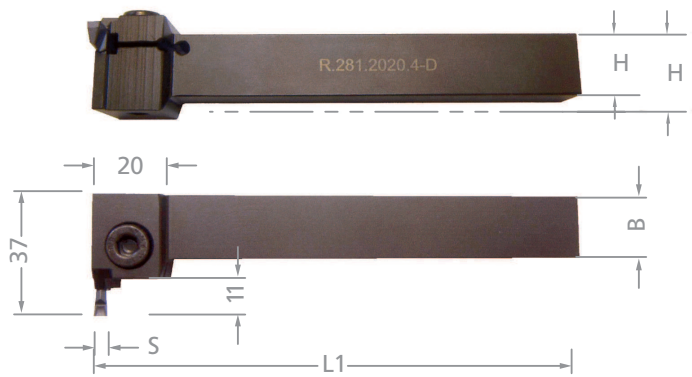
Type 281

face grooving toolholder

for indexable insert type ZTP
(face grooving)

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



DA = Outer-Ø of groove

righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

minimum bore Ø DA = 40 mm

part number	H ± 0.1			holding capacity
	B ± 0.1	L1		
R/L 281.2020.4-D	20	20	150	4.0 - 5.0
R/L 281.2525.4-D	25	25	150	4.0 - 5.0
R/L 281.2020.5-D	20	20	150	5.0 - 5.5
R/L 281.2525.5-D	25	25	150	5.0 - 5.5
R/L 281.2020.6-D	20	20	150	5.6 - 6.3
R/L 281.2525.6-D	25	25	150	5.6 - 6.3

order-example:
righthand version:
R.281.2020.4-D



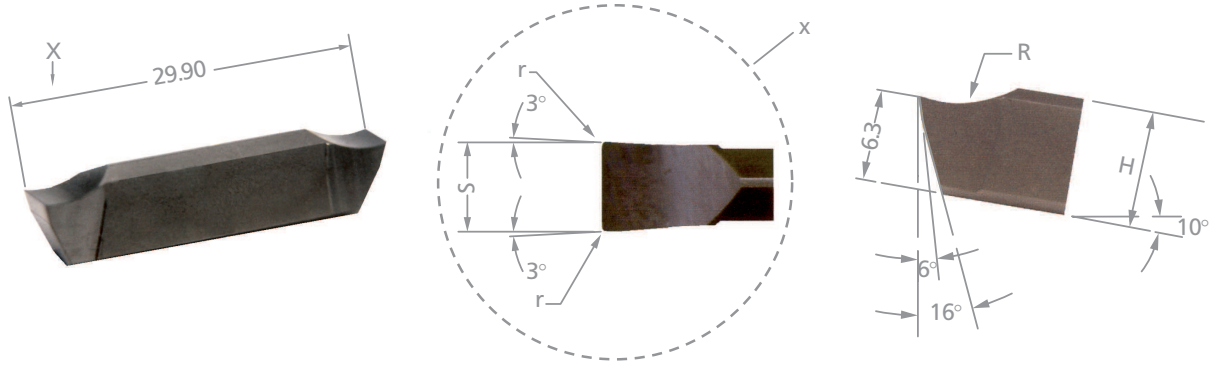
SYSTEM ZTP

grooving with two-cutting edges indexable inserts

System / system ZTP

indexable insert

for heavy duty groove type ZTP. ... 10-D with round chipbreaker



inserts can be used in RH and LH toolholders as well as in boring bars

10° = position in toolholder
dimensions in mm

for toolholder type:

212
220
225
0.428

part number	H	S + 0.05	clear angle			toolholder type	holding capacity
			lower	rear	r		
ZTP.0200.10-D	7.90	2.0	5°	3°	0.2	.2-D	2.0 - 3.0
ZTP.0300.10-D	7.90	3.0	5°	3°	0.2	.3-D	3.0 - 4.0
ZTP.0400.10-D	7.90	4.0	5°	3°	0.2	.4-D	4.0 - 5.0
ZTP.0500.10-D	7.90	5.0	5°	3°	0.2	.5-D	5.0 - 5.5
ZTP.0600.10-D	7.50	6.0	5°	3°	0.4	.6-D	5.6 - 6.3

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
ZTP.0200.10-D/AL41F

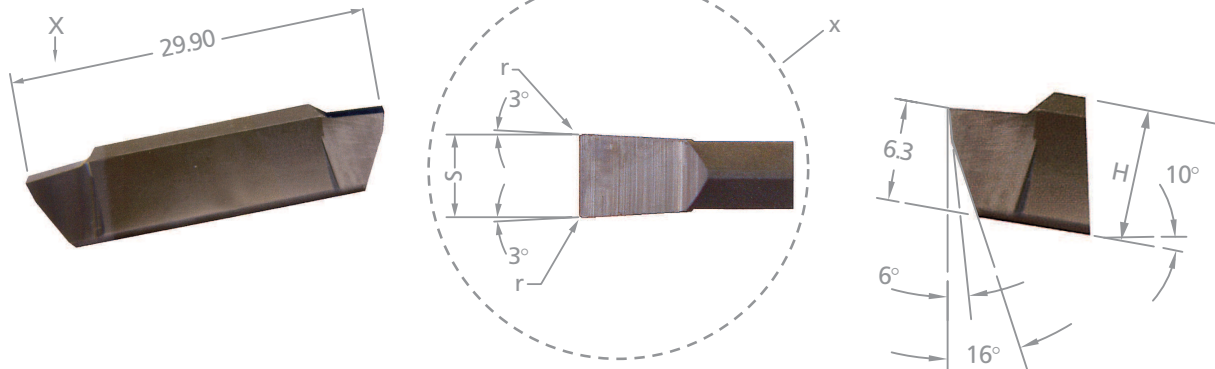
System / system ZTP

indexable insert

for heavy duty groove
type ZTP. ... 20-D
with flat chipbreaker

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



inserts can be used in RH and LH
toolholders as well as in boring bars

10° = position in toolholder
dimensions in mm

for toolholder
type:

212
220
225
0.428



part number	H	S + 0.05	clear angle			toolholder type	holding capacity
			lower	rear	r		
ZTP.0200.20-D	7.90	2.0	5°	3°	0.2	.2-D	2.0 - 3.0
ZTP.0300.20-D	7.90	3.0	5°	3°	0.2	.3-D	3.0 - 4.0
ZTP.0400.20-D	7.90	4.0	5°	3°	0.2	.4-D	4.0 - 5.0
ZTP.0500.20-D	7.90	5.0	5°	3°	0.2	.5-D	5.0 - 5.5
ZTP.0600.20-D	7.50	6.0	5°	3°	0.4	.6-D	5.6 - 6.3

More carbide grades you can find in the grades
summary in the chapter »technical instructions«
and in the price list.

order-example:
grade AL41F:
ZTP.0200.20-D/AL41F



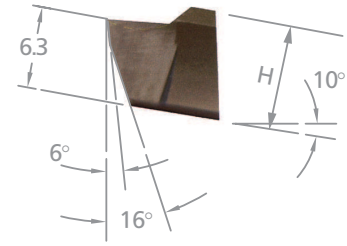
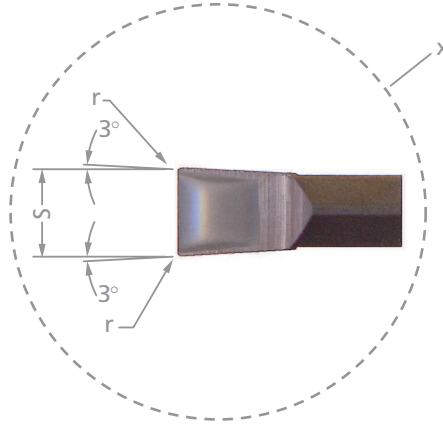
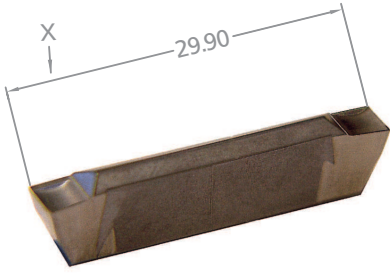
SYSTEM ZTP

grooving with two-cutting edges indexable inserts

System / system ZTP

indexable insert

for heavy duty groove type ZTP. ... 30-D with chipformer



inserts can be used in RH and LH toolholders as well as in boring bars

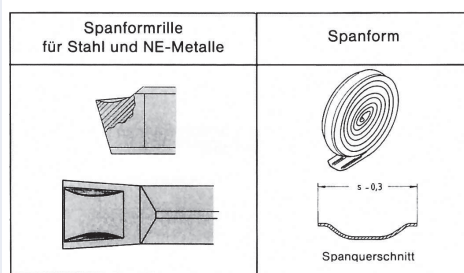
10° = position in toolholder dimensions in mm

for toolholder type:

212
220
225
0.428

part number	H	S + 0.05	clear angle			toolholder type	holding capacity
			lower	rear	r		
ZTP.0200.30-D	7.90	2.0	5°	3°	0.2	.2-D	2.0 - 3.0
ZTP.0300.30-D	7.90	3.0	5°	3°	0.2	.3-D	3.0 - 4.0
ZTP.0400.30-D	7.90	4.0	5°	3°	0.2	.4-D	4.0 - 5.0
ZTP.0500.30-D	7.90	5.0	5°	3°	0.2	.5-D	5.0 - 5.5
ZTP.0600.30-D	7.50	6.0	5°	3°	0.4	.6-D	5.6 - 6.3

chipformer



shape of chip

Cross section of chip

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
righthand version:
ZTP.0200.30-D/AL41F



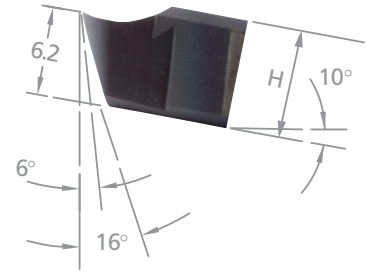
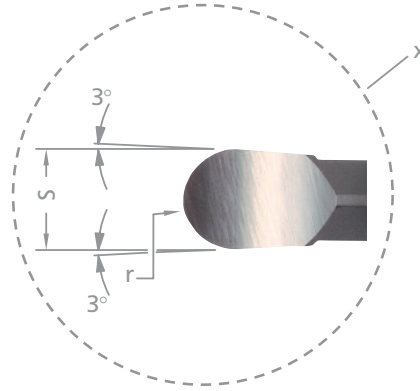
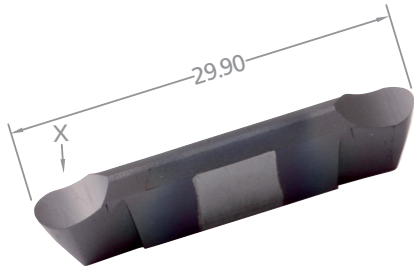
SYSTEM ZTP

grooving with two-cutting edges indexable inserts

System / system ZTP

indexable insert

for heavy duty groove type ZTP. R with round chipbreaker



inserts can be used in RH and LH toolholders as well as in boring bars

10° = position in toolholder
dimensions in mm

for toolholder type:

212
220
225
0.428

part number	H	S + 0.05	clear angle			toolholder type	holding capacity
			lower	rear	r		
ZTP.R010.20-D	7.90	2.0	3°	3°	1.0	.2-D	2.0 - 3.0
ZTP.R015.30-D	7.90	3.0	5°	3°	1.5	.3-D	3.0 - 4.0
ZTP.R020.40-D	7.90	4.0	6°	3°	2.0	.3-D/.4-D	3.0 - 4.0/4.0 - 5.0
ZTP.R025.50-D	7.90	5.0	6°	3°	2.5	.4-D/.5-D	4.0 - 5.0/5.0 - 5.5
ZTP.R030.60-D	7.50	6.0	6°	3°	3.0	.6-D	5.6 - 6.3

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
grade AL41F:
ZTP.R010.20-D/AL41F

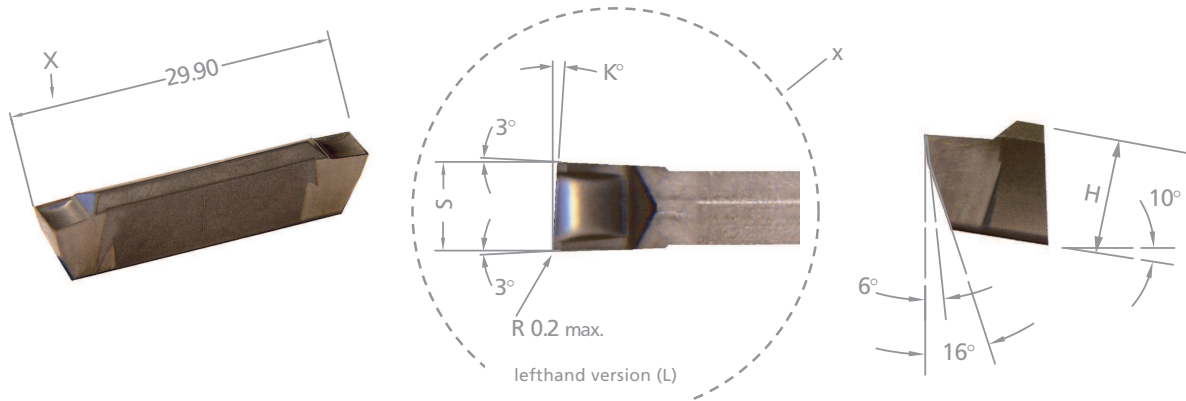
System / system ZTP

indexable insert
for parting-off

up to Ø 50 mm
width of groove 2 - 4 mm

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



use RH inserts in RH toolholders,
LH inserts in LH toolholders

10° = position in toolholder

lefthand version (L): as shown
righthand (R): mirror image

dimensions in mm

for toolholder type:	212
	220
	225



part number

H

S ± 0.05

K

toolholder type

holding capacity

R/L ZTP.5200.30-D	7.90	2.0	5°	.2-D	2.0 - 3.0
R/L ZTP.5300.30-D	7.90	3.0	5°	.2-D/.3-D	2.0 - 3.0/3.0 - 4.0
R/L ZTP.5400.30-D	7.90	4.0	5°	.3-D/.4-D	3.0 - 4.0/4.0 - 5.0

More carbide grades you can find in the grades
summary in the chapter »technical instructions«
and in the price list.

order-example:
righthand version and grade AL41F:
R.ZTP.5200.30-D/AL41F



SYSTEM ZTP

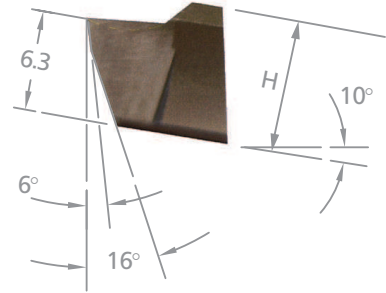
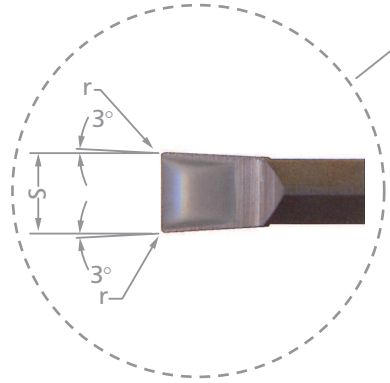
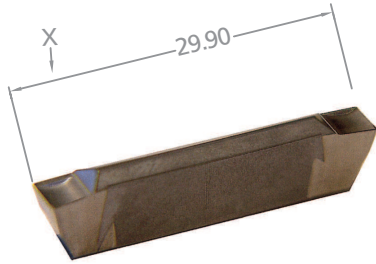
grooving with two-cutting!
edges indexable inserts

System / system ZTP!

indexable insert

for heavy duty groove type ZTP. ...
34-D
with chip former
grooving and turning

X



inserts can be used in RH and LH
toolholders as well as in boring bars

10° = position in toolholder

dimensions in mm

for toolholder
type:

212
220
225
0.428

part number	H	S + 0.05	clear angle			toolholder type	holding capacity
			lower	rear	r		
ZTP.0300.34-D	7.90	3.0	7°	3°	0.4	.3-D	3.0 - 4.0
ZTP.0400.34-D	7.90	4.0	7°	3°	0.4	.3-D/.4-D	3.0 - 4.0/4.0 - 5.0
ZTP.0500.34-D	7.90	5.0	7°	3°	0.4	.4-D/.5-D	4.0 - 5.0/5.0 - 5.5
ZTP.0600.34-D	7.50	6.0	7°	3°	0.8	.6-D	5.6 - 6.3

More carbide grades you can find in the grades
summary in the chapter »technical instructions«
and in the price list.

order-example:
grade AL41F:
ZTP.0300.34-D/AL41F

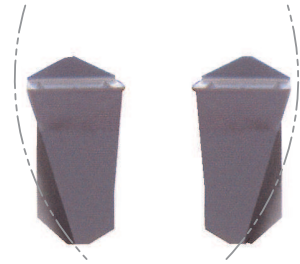
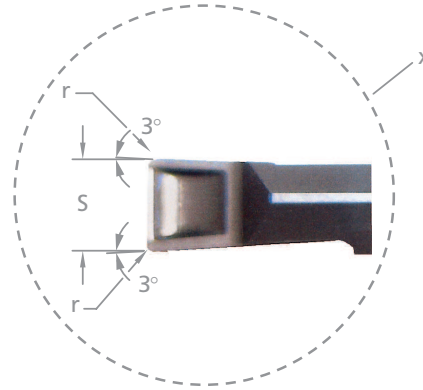
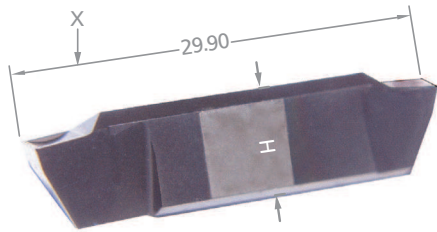
System / system ZTP

indexable insert
face grooving

with chipformer

SYSTEM ZTP

grooving with two-cutting
edges indexable inserts



lefthand version (L) righthand version (R)

view X

R = rotation right

righthand version (R): as shown
lefthand (L): mirror image

state right (R) or left (L) version

dimensions in mm

for toolholder type:
280
281



part number

H

S + 0.05

r

Ø DA

toolholder type

R/L ZTP.4040.34-D 7.90 4.0 0.2 40

.4

R/L ZTP.4050.34-D 7.90 5.0 0.4 40

.5

R/L ZTP.4060.34-D 7.50 6.0 0.4 40

.6

More carbide grades you can find in the grades summary in the chapter »technical instructions« and in the price list.

order-example:
righthand version and grade AL41F:
R.ZTP.4040.34-D/AL41F

Technical instructions,
carbide grade and coatings

K10F

All purpose micrograin carbide with good abrasion resistance. Uncoated for applications with low or medium cutting speeds and machining off nonferrous materials.

CBN

Ductile CBN grade for applications with lower cutting speed. Suitable for hardened steel, interrupted cuts and cast iron.

CN45F

All purpose PVD-TiN coating. This allround grade is suitable for low and medium cutting speed with restrictions on non-ferreous materials.

AL41F

Very universal TiAlN coating with a high resistance to high temperature and hardness. Very suitable also for non-ferrous metals.

PD2F

Coating for universal use with medium and low speed.

XC2A

Coating with excellent hot hardness, high oxidation resistance and thermal insulation capacity. Perfect for hard machining >60 HRC

Technical instructions,
carbide grade and coatings

P01C

Coating for the processing in tough material with medium or low cutting speed

P03C

Coating for materials which are difficult to machine. Perfect to use for dry machining.

P07C

Coating to machine titanium and stainless steel.

P18C

Very universal high performance coating with high oxidation resistance, wear resistance and hot hard-ness resistance.

NEME

Coating for machining aluminium, alloys, non-ferrous metals and composite materials.

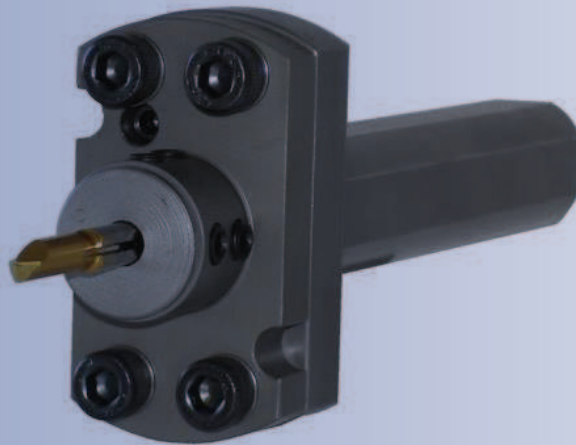
Technical instructions,
cutting data

	Werkstoff	Festigkeit	Werkstoff-Nr	Werkstoffbezeichnung	Werkstoff-Nr
P	Allgemeiner Baustahl	< 800 N/mm2	1.0037	St37-2	1.0570
	Automatenstahl	< 800 N/mm2	1.0718	9SMnPb28	1.0727
	Einsatzstahl unlegiert	< 800 N/mm2	1.0401	C15	1.0481
	Einsatzstahl legiert	< 1000 N/mm2	1.7331	16MnCr5 (EC80)	1.7015
	Vergütungsstahl unlegiert	< 850 N/mm2	1.0503	C45	1.1191
	Vergütungsstahl unlegiert	< 1000 N/mm2	1.0601	C60	1.1221
	Vergütungsstahl legiert	< 800 N/mm2	1.5131	50MnSi4	1.7030
	Vergütungsstahl legiert	< 1300 N/mm2	1.5755	31NiCr14	1.7033
	Stahlguss	< 850 N/mm2	0.9650	G-X260Cr27	1.6750
	Nitrierstahl	< 1000 N/mm2	1.8504	34CrAl6	1.8507
	Nitrierstahl	< 1200 N/mm2	1.8515	31CrMo12	1.8523
	Wälzlagerstahl	< 1200 N/mm2	1.3505	100Cr6 (W3)	1.3543
	Federstahl	< 1200 N/mm2	1.5026	55Si7	1.7176
	Schnellarbeitsstahl	< 1300 N/mm2	1.3344	S 6-5-3	1.3255
	Werkzeugstahl für Kaltarbeit	< 1300 N/mm2	1.2312	40CrMnMoS8 6	1.2379
	Werkzeugstahl für Warmbeit	< 1300 N/mm2	1.2343	X38CrMoV 5 1	1.2767
M	Stahl und Stahlguss rostfrei geschwefelt	< 850 N/mm2	1.4305	X8CrNiS18 9	1.4105
	Nichtrostender Stahl, ferritisch	< 750 N/mm2	1.4510	X3CrTi17	1.4528
	Nichtrostender Stahl, martensitisch	< 900 N/mm2	1.4034	X46Cr13	1.4116
	Nichtrost. Stahl, ferritisch/martensit.	<1100 N/mm2	1.4313	X3CrNi13-4	1.4028
	Nichtrost. Stahl, austenitisch/ferritisch	< 850 N/mm2	1.4460	X8CrNiMo27 5	1.4821
	Nichtrostender Stahl, austenitisch	< 750 N/mm2	1.4301	X5CrNi18-10	1.4571
	Hitzebeständig	< 1100 N/mm2	1.4747	X80CrNiSi20	1.4876
K	Grauguss mit Lammellengraphit	100-350N/mm2	0.6010	GG10	0.6025
	Grauguss mit Lammellengraphit	300-1000N/mm2	0.6030	GG30	0.6045
	Kugelgraphitguss	300-500N/mm2	0.7040	GGG40	0.7050
	Kugelgraphitguss	550-800N/mm2	0.7060	GGG60	0.7080
	Temperguss weis	350-450N/mm2	0.8035	GTW35	0.8045
	Temperguss weis	500-650N/mm2	0.8055	GTW55	0.8065
	Temperguss schwarz	350-450N/mm2	0.8135	GTS35	0.8145
Temperguss schwarz	500-700N/mm2	0.8155	GTS55	0.8170	
N	Aluminium (unlegiert, niedrig legiert)	< 350 N/mm2	3.0255	Al99,5	3.3308
	Aluminiumlegierungen < 0,5% Si	< 500 N/mm2	3.0515	AlMn1	3.1355
	Aluminiumlegierungen 0,5-10% Si	< 400 N/mm2	3.2152	GD-AlSi6Cu4	3.2373
	Aluminiumlegierungen 10-15% Si	< 400 N/mm2	3.2381	G-AlSi10Mg	3.5562
	Aluminiumlegierungen > 15% Si	< 400 N/mm2		G-AlSi17Cu4	
	Kupfer (unlegiert, niedrig legiert)	< 350 N/mm2	2.0060	E-Cu57	2.0090
	Kupfer-Knetlegierungen	< 700 N/mm2	2.0240	CuZn15	2.0265
	Kupfer-Sonderlegierungen	< 200 HB	2.0916	CuAl5	2.1525
	Kupfer-Sonderlegierungen	< 300HB	2.0978	CuAl11Ni6Fe5	
	Kupfer-Sonderlegierungen	> 300 HB	2.1247	CuBe2F125	
	Messing kurzspanend, Bronze, Rotguss	< 600 N/mm2	2.0360	CuZn40 (Ms60)	2.0380
	Messing langspanend	< 600 N/mm2	2.0335	CuZn36 (Ms63)	2.1293
	Thermoplaste			Delrin, Hostalen	
	Duroplaste			Ferrozell, Bakelit	
	Faserverstärkte Kunststoffe			GFK (Glasfaserverstärkt)	
	Magnesium und Magnesiumlegierungen	< 850 N/mm2	3.5200	M2, MgMn2	3.5612
Graphit			C8000, R8500X		
Wolfram und Wolframlegierungen			W-NiFe (Densimet W)		
Molybdän und Molybdänlegierungen			Mo , Mo-50Re		
S	Reinnickel		1.3911	RNi24	1.3927
	Nickellegierungen		1.3912	Ni36 (Invar)	1.3924
	Nickellegierungen	< 850 N/mm2	2.4360	S-NiCu 30 Fe	
	Nickel-Chromlegierungen		2.4886	SG-NiMo16Cr16W	2.4610
	Nickel- und Kobaltlegierungen	< 1300 N/mm2	2.4632	NiCr20Co18Ti	2.4631
	Nickel- und Kobaltlegierungen	< 1300 N/mm2	2.4634	NiCo20Cr15MoAlTi	2.4654
	Hochwarmfeste Legierungen	< 1300 N/mm2		Hardox 400	1.4939
	Nickel-Kobalt-(Chrom-)legierungen	< 1400 N/mm2	2.4806	SG-NiCr20Nb, Inconel 82	2.4851
	Reintitan	< 900 N/mm2	3.7025	Ti99,8	3.7034
	Titanlegierungen	< 700 N/mm2	3.7114	TiAl5Sn2	3.7174
H	Titanlegierungen	< 1200 N/mm2	3.7164	TiAl5V4	3.7144
	Stahl gehärtet	< 45 HRc			
		46-55HRc			
		56-60 HRc			
	61-65 HRc				
	65-70 HRc				

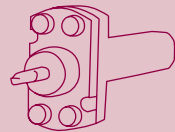
Technical instructions,
cutting data

Werkstoffbezeichnung	Werkstoff-Nr	Werkstoffbezeichnung	Vc K10F	Vc AL41F	Vc CN4F/CN5F	DED f	ZTP f
St52-3	1.0060	St60-2		80-200	100-220	0,03-0,1	0,05-0,2
45S20	1.0757	46SPb2		80-200	100-220	0,03-0,1	0,05-0,2
17Mn4	1.1141	C15E (CK15)		80-200	100-180	0,03-0,1	0,05-0,2
13Cr3 (EC60)	1.5919	15CrNi6		80-160	100-180	0,03-0,1	0,05-0,2
Ck45	1.0535	C55		80-160	80-140	0,03-0,1	0,05-0,2
Ck60	1.0540	C50		80-160	80-140	0,03-0,1	0,05-0,2
28Cr4	1.7225	42CrMo4		80-160	80-140	0,03-0,1	0,05-0,2
34Cr4	1.3565	48CrMo4		80-150	80-140	0,03-0,1	0,05-0,2
GS-20NiCrMo3 7	1.6582	GS-34 CrNiMo 6		80-200	100-180	0,03-0,1	0,05-0,2
34AlMo5	1.8509	41CrAlMo7		70-140	60-120	0,03-0,07	0,05-0,15
39CrMoV19 3	1.8550	34 CrAlNi 7		70-140	60-120	0,03-0,07	0,05-0,15
X192CrMo17	1.3520	100 CrMn 6 (W4)		70-140	60-120	0,03-0,07	0,05-0,15
55Cr3	1.7701	51CrMoV4		40-60		0,03-0,07	0,05-0,15
S 18-1-2-5	1.3294	PMH56-5-3-8; ASP30		40-60		0,03-0,07	0,05-0,15
X155CrVMo12 1	1.2316	X38CrMo16; RAMAX		40-60		0,03-0,07	0,05-0,15
X45NiCrMo4	1.2842	90MnCrV8		40-60		0,03-0,07	0,05-0,15
X4CrMoS18	1.4107	GX8CrNi12	40-80	80-160	80-160	0,02-0,06	0,03-0,1
X105CrCoMo18 2	1.4016	X6Cr17	40-80	80-160	80-160	0,02-0,06	0,03-0,1
X50CrMoV15	1.4106	X2CrMoSi18-2-1	40-80	80-160	80-160	0,02-0,06	0,03-0,1
X30Cr13	1.4104	X14CrMoS17	30-65	20-85	20-90	0,02-0,06	0,03-0,1
X20CrNiSi25 4	1.4462	X2CrNiMoN22-5-3 (Duplex)	30-65	20-75	20-90	0,02-0,06	0,03-0,1
X6CrNiMoTi17 12 2	1.4449	X3CrNiMo18-12-3	30-65	20-65	20-90	0,02-0,06	0,03-0,1
X10NiCrAlTi32-21	1.4825	GX25CrNiSi18-9	30-65	20-65	20-90	0,02-0,06	0,03-0,01
GG25			30-110	30-180	30-160	0,03-0,1	0,05-0,2
GG45			30-90	30-150	30-140	0,03-0,1	0,05-0,2
GGG50			25-110	30-180	30-160	0,03-0,1	0,05-0,2
GGG80			25-80	30-120	30-100	0,03-0,1	0,05-0,2
GTW45			20-40	30-90	30-80	0,03-0,1	0,05-0,2
GTW65			20-40	20-80	20-70	0,03-0,1	0,05-0,2
GTS45			20-40	30-90	30-80	0,03-0,1	0,05-0,2
GTS70			20-40	20-80	20-70	0,03-0,1	0,05-0,2
Al99,9Mg0,5	3.0256	E-Al H	120-500	120-600		0,05-0,12	0,08-0,25
AlCuMg2	3.3315	AlMg1	120-500	120-600		0,05-0,12	0,08-0,25
GD-ALSi9Mg	3.2134	GD-ALSi5Cu1Mg	100-400	100-450		0,05-0,12	0,08-0,25
G-MgAl6	3.2525	S-ALSi12	70-250	70-300		0,05-0,12	0,08-0,25
G-ALSi25CuNiMg		G-ALSi21CuNiMg	60-140	60-150		0,05-0,12	0,08-0,25
SF-Cu	2.1522	CuSi2Mn	60-140	60-150		0,05-0,12	0,08-0,25
CuZn30	2.0321	CuZn37	100-160	100-180		0,05-0,12	0,08-0,25
CuSi3Mn		Ampco 8-16	90-160	90-180		0,05-0,12	0,08-0,25
		Ampco 18-26	80-160	80-180		0,05-0,12	0,08-0,25
		Ampco M-4	80-160	80-180		0,05-0,12	0,08-0,25
CuZn39Pb2 (Ms58)	2.0410	CuZn44Pb2	120-200	120-220		0,05-0,12	0,08-0,25
CuCrZr	2.1080	CuSn6Zn6	70-140	70-150		0,05-0,12	0,08-0,25
Makrolon, Novodur		Acrylglas, Polystyrol	80-160	80-180		0,05-0,12	0,08-0,25
Pertinax		Resopal	80-160	80-180		0,05-0,12	0,08-0,25
CFK (Kohlefaserverstärkt)		AFK (Amidfaserverstärkt)		80-180		0,05-0,12	0,08-0,25
MgAl6Zn1	3.5812	MgAl8Zn1		80-180		0,05-0,12	0,08-0,25
R8650		Technograph15		80-180		0,05-0,12	0,08-0,25
W-Cu80/20		W93NiFe (DENAL)		80-180		0,05-0,12	0,08-0,25
TZC, TZM		MHC, ODS		80-180		0,05-0,12	0,08-0,25
RNi8	1.3926	RNi12		30-80		0,01-0,04	0,02-0,07
Ni54	1.3921	Ni49		18-75		0,01-0,04	0,02-0,07
NiCu 30 Fe		Monel 400		18-75		0,01-0,04	0,02-0,07
NiMo16Cr16Ti		Hastelloy C-276		18-40		0,01-0,04	0,02-0,07
NiCr20TiAl		Nimonic 80		18-40		0,01-0,04	0,02-0,07
NiCr19Co14Mo4Ti		Waspaloy		18-40		0,01-0,04	0,02-0,07
X12CrNiMo12	1.4980	X6NiCrTiMoVB25-15-2		15-30		0,01-0,04	0,02-0,07
NiCr23Fe, Inconel 601	2.4667	SG-NiCr19NbMoTi		15-30		0,01-0,04	0,02-0,07
Ti99,7	3.7064	Ti99,5		15-30		0,01-0,04	0,02-0,07
TiAl6V6Sn2	3.7124	TiCu2		100-150		0,01-0,04	0,02-0,07
TiAl6Sn2Zr4Mo2	3.7154	TiAl6Zr5		100-150		0,01-0,04	0,02-0,07

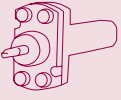
Vc: (m/min)
f: (mm/Rev.)



VT-Haltersysteme



Height adjustable tool-holders



VT-Haltersysteme!

Height adjustable tool-holders

summary



basic tool holder

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tool holder and
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internal turning
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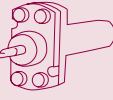
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Height adjustable tool-holders

summary



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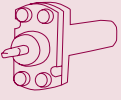


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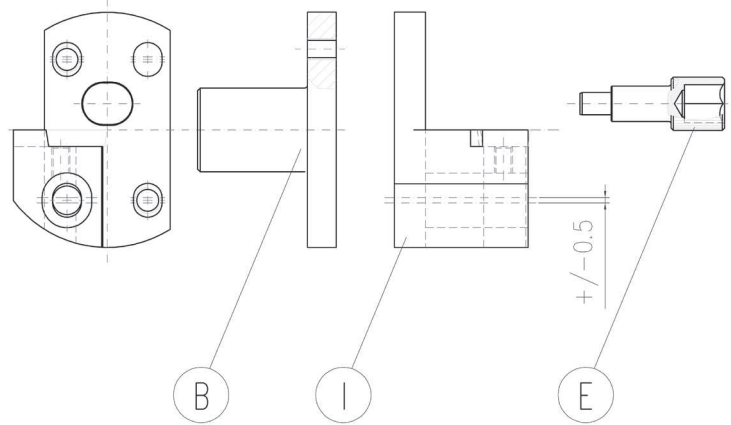


VT-Haltersysteme

Height adjustable tool-holders

Typ Citizen / Maier / Manurhin

basic tool holder



Product group

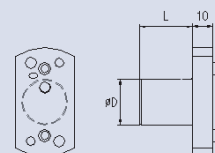
Article no.

Description

Pos.

Information

Product group	Article no.	Description	Pos.	Shank-Ø	Shape	Length of shank
Citizen	C 16 / L20 / M16	UMHV-B0234060	Basic tool holder	B	¾"	60
Citizen	L20	UMHV-B0225060	Basic tool holder	B	25	60
Citizen	C32 / L32 / M32	UMHV-B0210070	Basic tool holder	B	1"	70
Citizen	K16	UMHV-B0220100	Basic tool holder	B	20	100
Citizen	A32-VII	UMHV-B0231015	Basic tool holder	B	31	15
Citizen	A32-VII	UMHV-A0802	Adapter B08/B02			
Maier	ML12 C ML16 C / ML16 D ML20 / ML26 / ML32	UMHV-B0434030CL	AC Basic tool holder with CL	B	34	30
Manurhin	KMX 4 / 13	UMHV-B0216019	Basic tool holder	B	16	19
Manurhin	KMX 5 / 20, 5 / 26 KMX 5 / 32	UMHV-B0225100	Basic tool holder	B	25	100
Manurhin	Swing 7-13	UMHV-B0220100	Basic tool holder	B	20	100
Manurhin	Swing 7-20 / Swing 7-26	UMHV-B0225100	Basic tool holder	B	25	100
Manurhin	Swing 7-20 / Swing 7-26	UMHV-B0225100	Basic tool holder	B	25	100
Manurhin	Swing 10-20 / 10-26 Swing 10-32	UMHV-B0225050	Basic tool holder	B	25	50

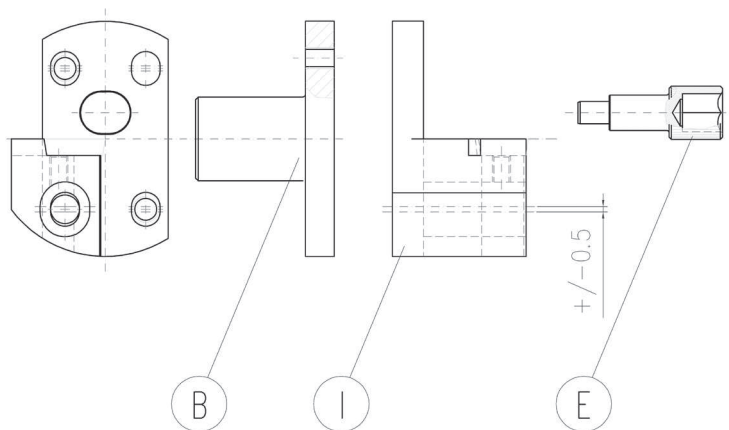
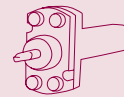













VT-Haltersysteme

Height adjustable tool-holders

Type Star

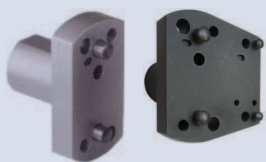
basic tool holder



Product group	Article no.	Description	Pos.	Technical Information
Star	SR10J	UMHV-B0516010	B	Shank-Ø 16 Shape  Length of shank 10
Star	SR10J	UMHV-B0622015	B	Shank-Ø 22 Shape  Length of shank 15
Star	SR10J	UMHV-B0222015	B	Shank-Ø 22 Shape  Length of shank 15
Star	SR10J / SR20R	UMHV-B0222025F	B	Shank-Ø 22 Shape  Length of shank 25
Star	SR16 / SR20	UMHV-B0116021	B	Shank-Ø 16 Shape  Length of shank 21
Star	SA16 / SB16	UMHV-B0222070	B	Shank-Ø 22 Shape  Length of shank 70
Star	ECAS12 / ECAS20	UMHV-B0222025F	B	Shank-Ø 22 Shape  Length of shank 25
Star	SR32 / SR32J	UMHV-B0322025	B	Shank-Ø 22 Shape  Length of shank 25
Star	SR32J ***	UMHV-B0222025F	B	Shank-Ø 22 Shape  Length of shank 25
Star	RNC16B	UMHV-B0216019	B	Shank-Ø 16 Shape  Length of shank 20
Star	SR20R / SR32J***	UMHV-B022202505	B	Shank-Ø 22 Shape  Length of shank 25
		double to be used only without drilling unit		

!Valid from machine number

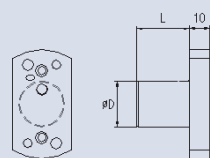
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Mit Lieferzeit
With deliverytime



Ab Lager
On stock



VT-Haltersysteme

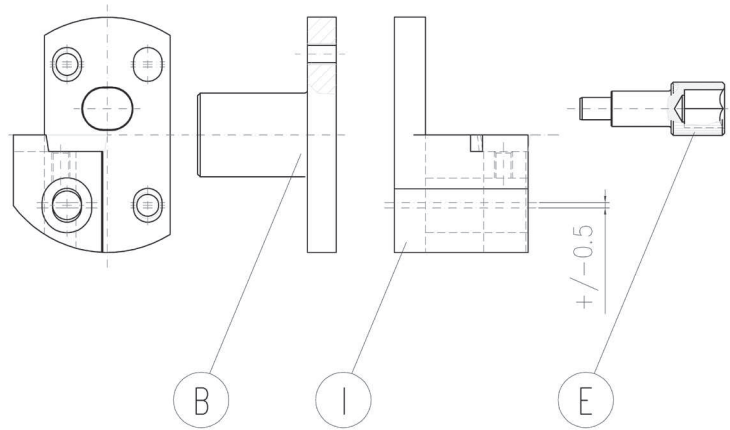
Höhenverstellbare Werkzeuge

Height adjustable tool-holders

Typ Tornos / Traub / Tsugami

Grundhalter

basic tool holder



Product group

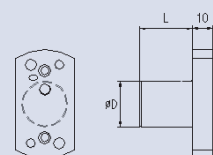
Article no.

Description

Pos.

Technical Information

					Shank-Ø	Shape	Length of shank
Tornos	DECO 7/10 / DECO 13 DECO 20	UMHV-B0220100	Basic tool holder	B	20		100
Tornos	DECO 7/10 / DECO 13 DECO 20	UMHV-B0225100	Basic tool holder	B	25		100
Tornos	Gamma 20	UMHV-B0220070	Basic tool holder	B	20		70
Tornos	Delta 38-5a	UMHV-B0232070	Basic tool holder	B	32		70
Traub	TNL12	UMHV-B0228040	Basic tool holder	B	28		40
Traub	TNL12	UMHV-B0228078	Basic tool holder	B	28		78
Tsugami	B012 / B020	UMHV-B0220040	Basic tool holder	B	20		40
Tsugami	BS12 / BS20	UMHV-B0220060	Basic tool holder	B	20		60
Tsugami	BS20B	UMHV-B0258040	Basic tool holder	B	5/8"		40
Tsugami	S205	UMHV-B0220040	Basic tool holder	B	20		40
Tsugami	BS12 / BS20	UMHV-B0225060	Basic tool holder	B	25		60
Tsugami	Piastra	UMHV-B0225035	Basic tool holder	B	25		35

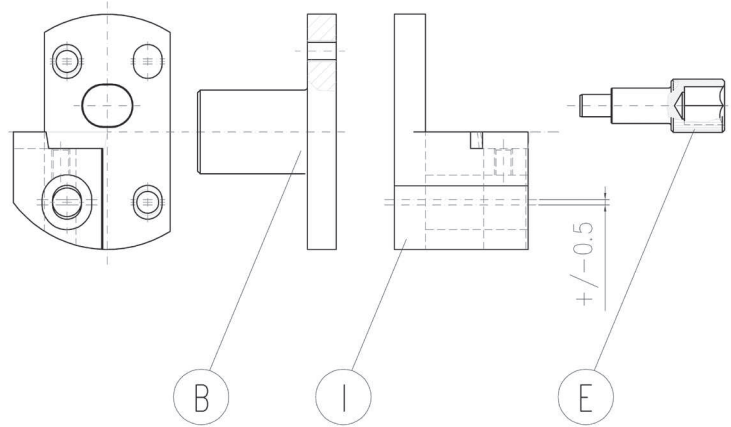
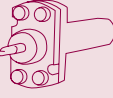


VT-Haltersysteme

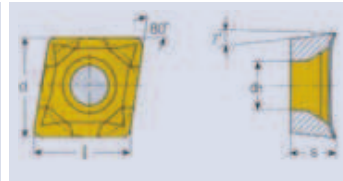
Height adjustable tool-holders

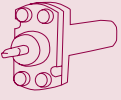
Type UMHV

tool holder for insert CC



Product group	Article no.	Description	Pos.	Technical Information
				Insert
	UMHV-I0201CC0602R	Insert holder	I	CC.. 06 02 .. 0°
	UMHV-I0201CC0602L	Insert holder	I	CC.. 06 02 .. 0°
	UMHV-I0201CC09T3R	Insert holder	I	CC.. 09 T3 .. 0°
	UMHV-I0201CC09T3L	Insert holder	I	CC.. 09 T3 .. 0°
	UMHV-I0202CC09T3R	Insert holder	I	CC.. 09 T3 .. 5°
	UMHV-I0202CC09T3L	Insert holder	I	CC.. 09 T3 .. 5°
	UMHV-I0203CC09T3R	Insert holder	I	CC.. 09 T3 .. 3°
	UMHV-I0203CC09T3L	Insert holder	I	CC.. 09 T3 .. 3°



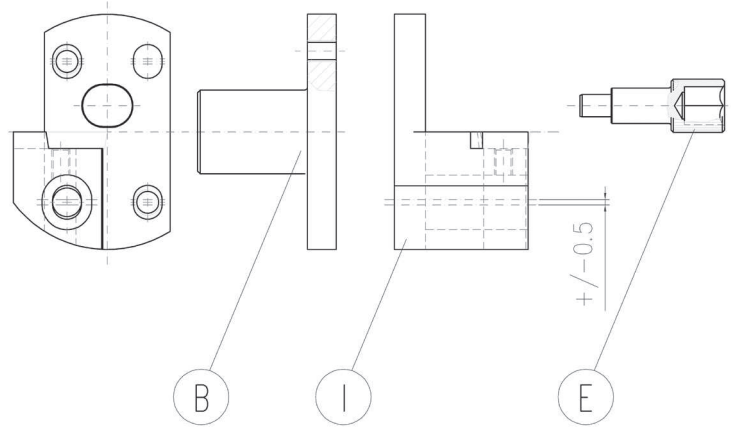


VT-Haltersysteme

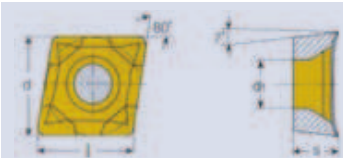
Height adjustable tool-holders

Type UMHV

tool holder for insert CC



Product group	Article no.	Description	Pos.	Technical Information
	UMHV-I0233CC09T3R	Insert holder	I	Insert CC.. 09 T3 .. 3°
	UMHV-I0233CC09T3L	Insert holder	I	CC.. 09 T3 .. 3°
	UMHV-I0501CC0602R	Insert holder	I	CC.. 06 02 .. 3°
	UMHV-I0501CC0602L	Insert holder	I	CC.. 06 02 .. 3°

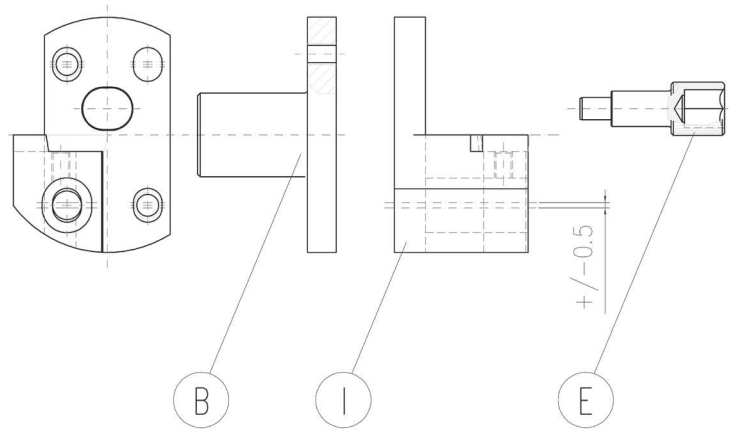
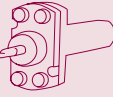


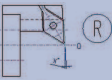
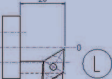
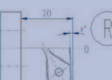
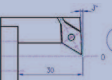
VT-Haltersysteme

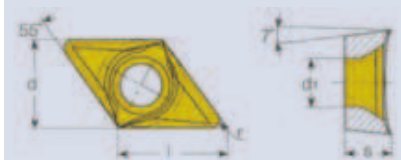
Height adjustable tool-holders

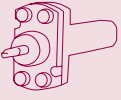
Type UMHV

tool holder for insert DC



Product group	Article no.	Description	Pos.	Technical Information
				Insert
	UMHV-I0201DC0702R	Insert holder	I	DC.. 07 02 .. 3°
	UMHV-I0201DC0702L	Insert holder	I	DC.. 07 02 .. 3°
	UMHV-I0201DC11T3R	Insert holder	I	DC.. 11 T3 .. 3°
	UMHV-I0201DC11T3L	Insert holder	I	DC.. 11 T3 .. 3°
	UMHV-I0202DC11T3R	Insert holder	I	DC.. 11 T3 .. 3°
	UMHV-I0202DC11T3L	Insert holder	I	DC.. 11 T3 .. 3°
	UMHV-I0231DC11T3R	Insert holder	I	DC.. 11 T3 .. 3°
	UMHV-I0231DC11T3L	Insert holder	I	DC.. 11 T3 .. 3°





VT-Haltersysteme

Height adjustable tool-holders

Type UMHV

Dümmel Swissline

tool holder for Dümmel Swissline



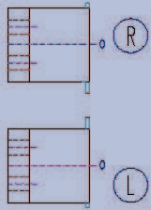
Product group

Article no.

Description

Pos.

Technical Information



UMHV-I0201SWISSRL

Insert holder

I

Insert

Swissline R/L ZW



Grooving + turning

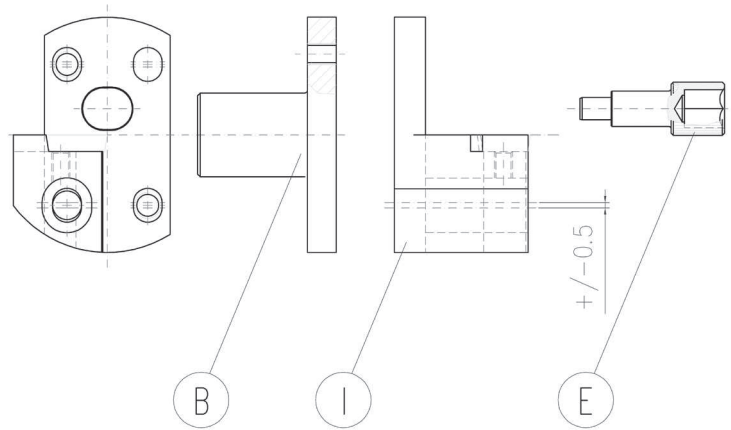
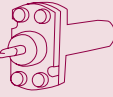


VT-Haltersysteme

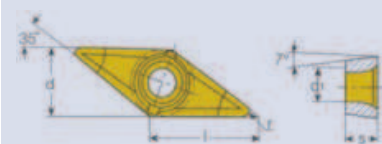
Height adjustable tool-holders

Type UMHV

tool holder for insert VC



Product group	Article no.	Description	Pos.	Technical Information
	UMHV-I0201VC1103R	Insert holder	I	Insert VC.. 11 03 .. 5°
	UMHV-I0201VC1103L	Insert holder	I	VC.. 11 03 .. 5°
	UMHV-I0202VC1103R	Insert holder	I	VC.. 11 03 .. 20°
	UMHV-I0202VC1103L	Insert holder	I	VC.. 11 03 .. 20°
	UMHV-I0203VC1103R	Insert holder	I	VC.. 11 03 .. 17° 30'
	UMHV-I0203VC1103L	Insert holder	I	VC.. 11 03 .. 17° 30'
	UMHV-I0204VC1103R	Insert holder	I	VC.. 11 03 .. 3°
	UMHV-I0204VC1103L	Insert holder	I	VC.. 11 03 .. 3°

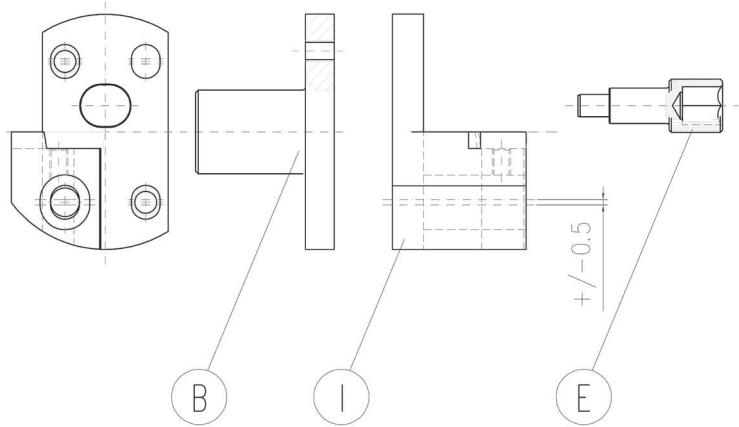
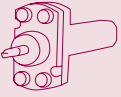


VT-Haltersysteme

Height adjustable tool-holders

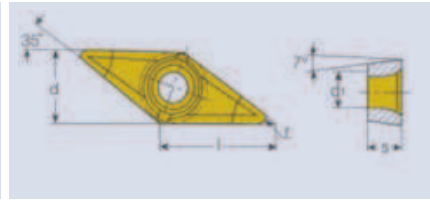
Type UMHV

tool holder for insert VB / VC



Product group	Article no.	Description	Pos.	Technical Information
---------------	-------------	-------------	------	-----------------------

	UMHV-02VB1102R	Insert holder	I	Insert VB.. 11 02 .. 20°
	UMHV-02VB1102L	Insert holder	I	VB.. 11 02 .. 20°
	UMHV-I0201VC1203R	Insert holder	I	VC.. 12 03 .. 5°
	UMHV-I0201VC1203L	Insert holder	I	VC.. 12 03 .. 5°
	UMHV-I0202VC1203R	Insert holder	I	VC.. 12 03 .. 5°
	UMHV-I0202VC1203L	Insert holder	I	VC.. 12 03 .. 5°
	UMHV-I0201VC1303R	Insert holder	I	VC.. 13 03 .. 5°
	UMHV-I0201VC1303L	Insert holder	I	VC.. 12 03 .. 5°

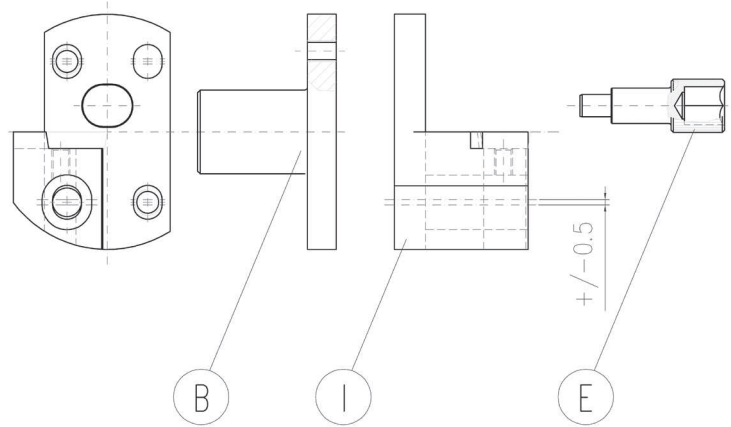
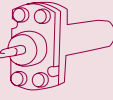


VT-Haltersysteme

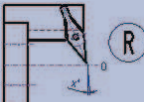
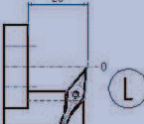
Height adjustable tool-holders

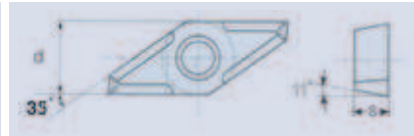
Type UMHV

tool holder for insert VP



Product group	Article no.	Description	Pos.	Technical Information
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Product group	Article no.	Description	Pos.	Technical Information
	UMHV-I0201VP1003R	Insert holder	I	Insert VP.. 10 03 .. 3°
	UMHV-I0201VP1003L	Insert holder	I	VP.. 10 03 .. 3°

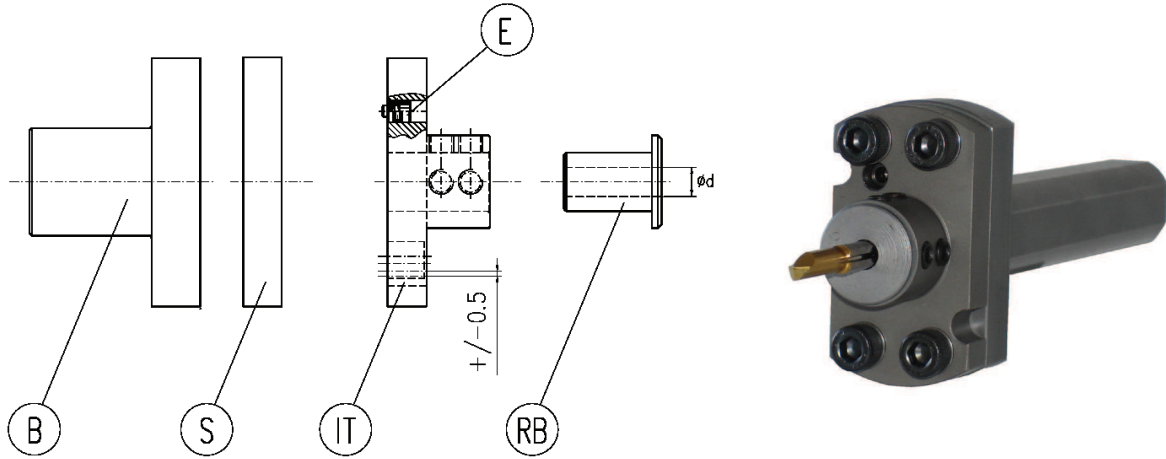
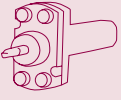


VT-Haltersysteme

Height adjustable tool-holders

Type UMHV

tool holder and reduction bush
internal turning with ULTRAMINI



Product group	Article no.	Description	Pos.	Technical Information
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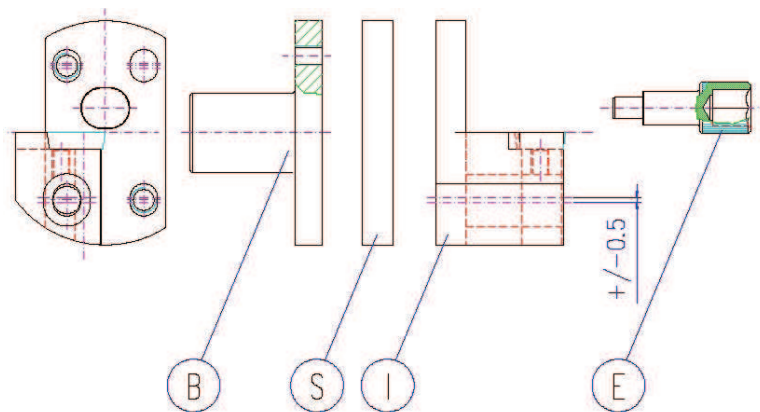
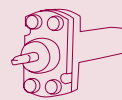
				ØD	Ød
	UMHV-IT020110	Werkzeughalter Innendrehe Tool holder internal turning	IT	10	
	UMHV-RBD1004	Reduction bush	RB	10	4
	UMHV-RBD1005	Reduction bush	RB	10	5
	UMHV-RBD1006	Reduction bush	RB	10	6
	UMHV-RBD1007	Reduction bush	RB	10	7
	UMHV-RBD1008	Reduction bush	RB	10	8

VT-Haltersysteme

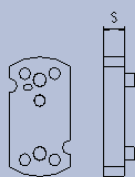
Height adjustable tool-holders

Type UMHV

spacer



Product group	Article no.	Description	Pos.	Technical Information
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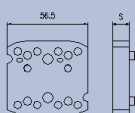


- UMHV-S0210
- UMHV-S0220
- UMHV-S0225
- UMHV-S0230
- UMHV-S0510
- UMHV-S0520
- UMHV-S0610
- UMHV-S0620

- Spacer
- Spacer
- Spacer
- Spacer
- Spacer
- Spacer
- Spacer
- Spacer

- S
- S
- S
- S
- S
- S
- S
- S

- Thickness
- 10
- 20
- 25
- 30
- 10
- 20
- 10
- 20

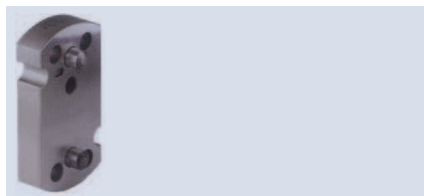


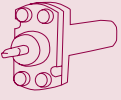
UMHV-S0212D

Spacer, double

S

12



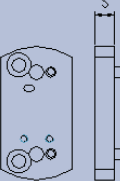
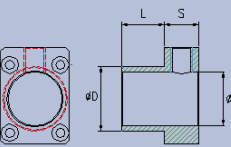
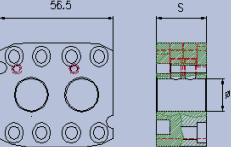




VT-Haltersysteme

Height adjustable tool-holders

Type UMHV

Accessoires

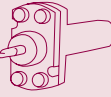
Product group	Article no.	Description	Pos.	Technical Information			
	UMHV-A0205	Adapter B02/B05		S	øD	L	ød
	UMHV-A072002025	Adapter basic toolholder		7.5	30	20	25
	UMHV-ST020116D	Shank tool holder, double					16
	UMHV-E04170	Adjustment excenter	E				
	UMHV-E04051K	Adjustment excenter, compl.					




VT-Haltersysteme

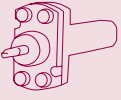
Height adjustable tool-holders

Type UMHV

Accessoires



Product group	Article no.	Description	Pos.	Technical Information
	UMHV-N01145	Clamping screw	T8	CC.. 06 02 ..
	UMHV-N01114	Clamping screw	T15	CC.. 09 T3 ..
	UMHV-N01145	Clamping screw	T8	DC.. 07 02 ..
	UMHV-N01114	Clamping screw	T15	DC.. 11 T3 ..
	UMHV-N01145	Clamping screw	T8	TC.. 11 02 ..
	UMHV-N01150	Clamping screw	T8	TP.. 11 02 ..
	UMHV-N01145	Clamping screw	T8	UT1600
	UMHV-N01145	Clamping screw	T8	VP.. 10 03 ..
	UMHV-N01145	Clamping screw	T8	VC.. 11 03 ..
	UMHV-N01146 (S16)	Clamping screw	T10	16 ER
	UMHV-N01168	Clamping screw	T8	AP 730 / 740
	UMHV-N01147 (A16)	Anvil screw	T10	16 ER
	UMHV-N01148	Anvil		16 ER



VT-Haltersysteme

Height adjustable tool-holders

Type UMHV

Accessoires



Product group	Article no.	Description	Pos.	Technical Information
	Tool holder	M6x10 DIN913	Pan head screw with hex	M6x10 DIN913
	Tool holder	M5x25 DIN912	Pan head screw with hex	M5x25 DIN912
	Basic tool holder	M5x16 DIN912	Pan head screw with hex	M5x16 DIN912
	Basic tool holder	M5x25 DIN912	Pan head screw with hex	M5x25 DIN912
	Spacer	M5x25 DIN912	Pan head screw with hex	M5x25 DIN912
	Spacer	M5x35 DIN912	Pan head screw with hex	M5x35 DIN912
	Spacer	M5x45 DIN912	Pan head screw with hex	M5x45 DIN912
	Basic tool holder	M4x14 DIN912	Pan head screw with hex	M4x14 DIN912
	Basic tool holder	M3x10 DIN912	Pan head screw with hex	M3x10 DIN912
	L-piece	M3X6 DIN7991	countersunk screw	M3X6 DIN7991
	Basic tool holder	UMHV-N01127	Elastic washer light	M5/5.3/9.2/0.45
	Basic tool holder	UMHV-N01169	Elastic washer light	M4/4.3/10/0.6

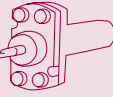
VT-Haltersysteme

Height adjustable tool-holders

Typ UMHV

Zubehör

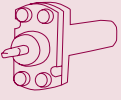
Accessoires



Produkt-Gruppe Product group	Artikel-Nr. Article no.	Bezeichnung Description	Pos. Pos.	Technische Information Technical Information
			S	øD
	UMHV-A020218CL	Adapter für IK Adapter for CL	18	G 1/8" <input type="checkbox"/>
	UMHV-A020130CL	Adapter für IK Adapter for CL	30	G 1/8" <input type="checkbox"/>
	UMHV-ANOZ01RCL	Aufsatzspritzdüse für IK spray nozzle for CL		G 1/8" <input type="checkbox"/>
	UMHV-ANOZ01LCL	Aufsatzspritzdüse für IK spray nozzle for CL		G 1/8" <input type="checkbox"/>

Mit Lieferzeit
With deliverytime

Ab Lager
On stock



VT-Haltersysteme

Höhenverstellbare Werkzeuge

Height adjustable tool-holders

Typ UMHV

Zubehör

Accessoires



Produkt-Gruppe
Product group

Artikel-Nr.
Article no.

Bezeichnung
Description

Technische
Information
Technical
Information

Produkt-Gruppe Product group	Artikel-Nr. Article no.	Bezeichnung Description	Technische Information Technical Information	
			S	øD
	UMHV-N01179	Kühlmittelanschluss gerade, kompl. coupling connection, straight, compl.	4/ M8x1	<input type="checkbox"/>
	UMHV-N01180	Kühlmittelanschluss gerade, kompl. coupling connection, straight, compl.	4/ G1/8"	<input type="checkbox"/>
	UMHV-N01181	Kühlmittelanschluss gerade, kompl. coupling connection, straight, compl.	6/ G1/8"	<input type="checkbox"/>
	UMHV-CO1002	Kupplung m. autom. Verschluss, kompl. coupling w. autom. lock, compl.	3/ M8x1	<input type="checkbox"/>
	UMHV-CO1002F	Kupplungsmuffe coupling sleeve	M8x1	<input type="checkbox"/>
	UMHV-CO1002M	Kupplungsstecker coupling plug	M8x1	<input type="checkbox"/>
	UMHV-CO1003	Kupplung m. autom. Verschluss, kompl. coupling w. autom. lock, compl.	3/ G1/8"	<input type="checkbox"/>
	UMHV-CO1003F	Kupplungsmuffe coupling sleeve	G 1/8"	<input type="checkbox"/>
	UMHV-CO1003M	Kupplungsstecker coupling plug	G 1/8"	<input type="checkbox"/>
	UMHV-N01064	Spritzdüse nozzle		<input type="checkbox"/>

Mit Lieferzeit
With deliverytime



Ab Lager
On stock



