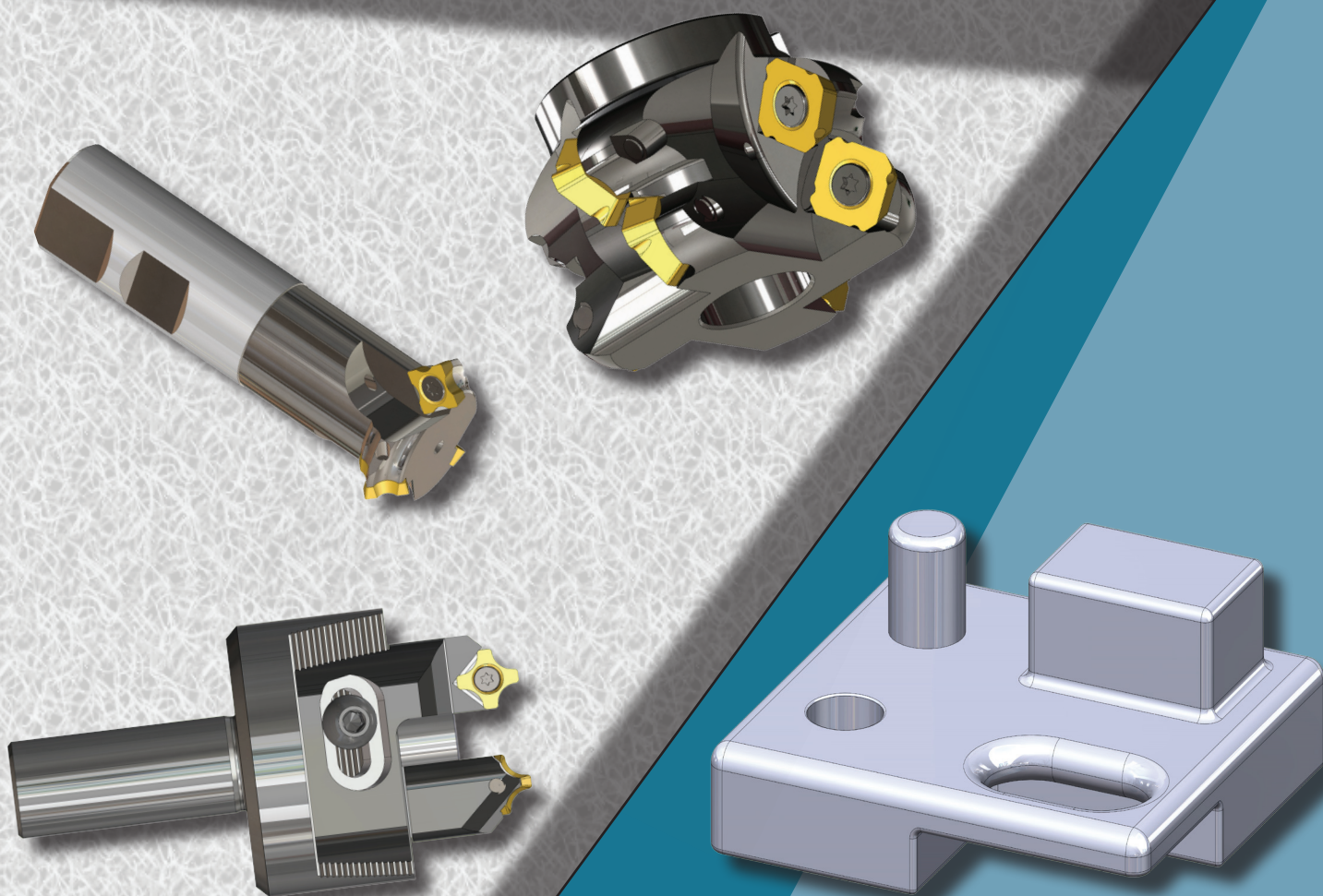


DAS THE RADIENPROGRAMM

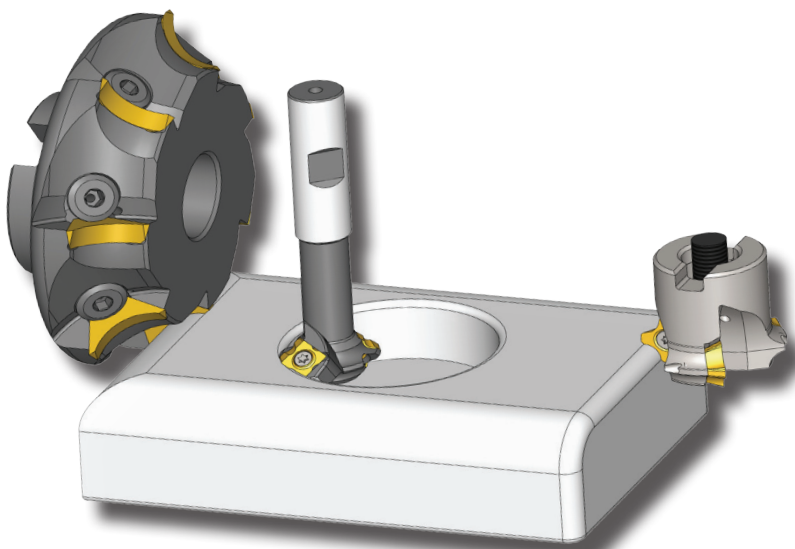
Serie 3016 - Serie 3017 - Serie 3018



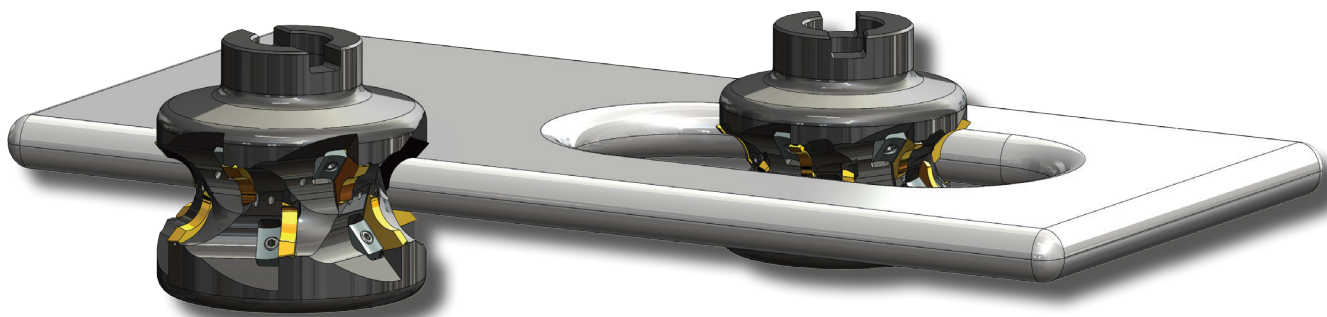
Anwendungen

applications

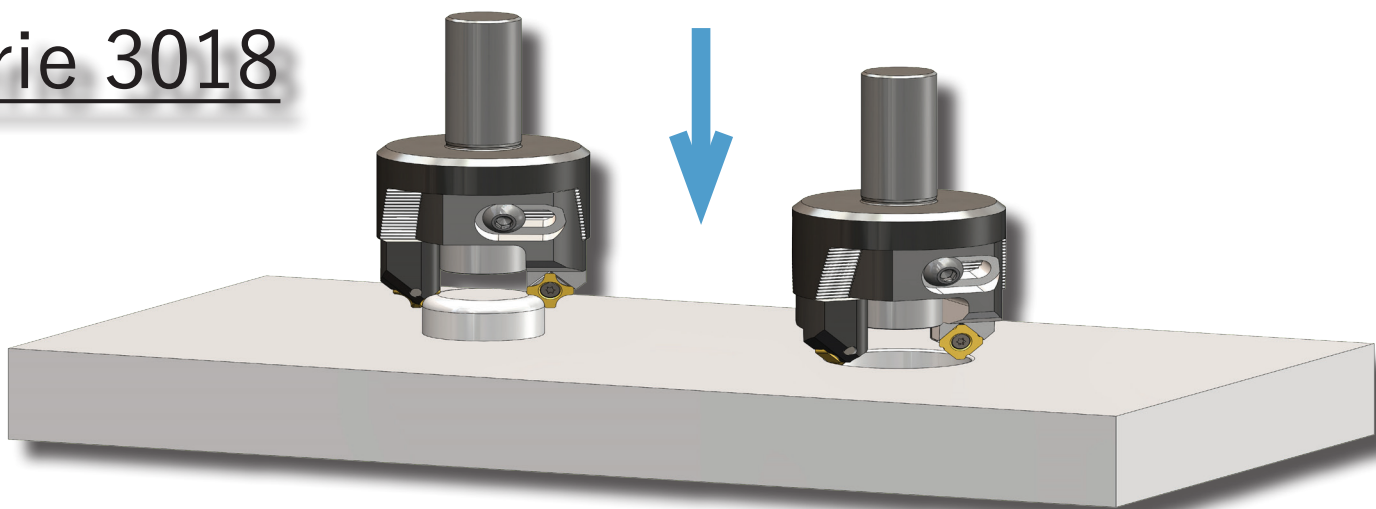
Serie 3016



Serie 3017

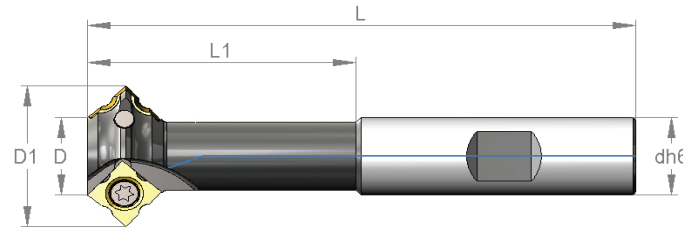
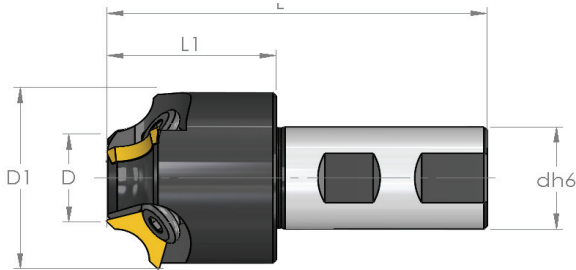


Serie 3018



Serie 3016 - Ausführungen

Serie 3016 - executions



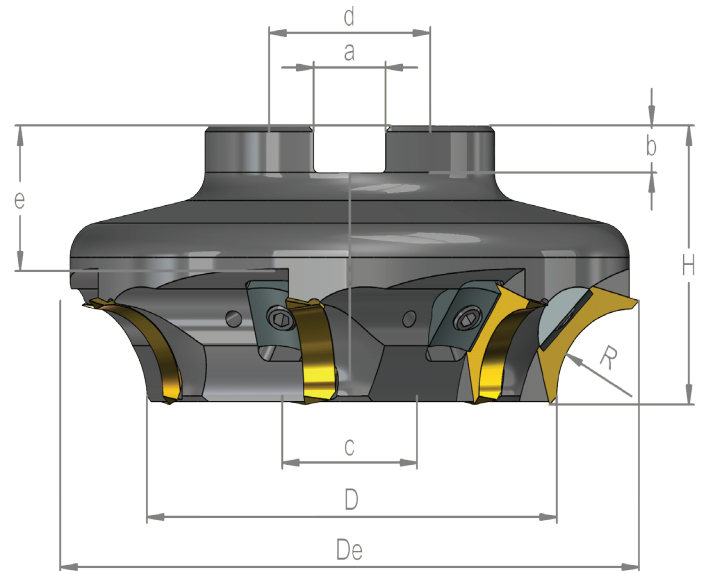
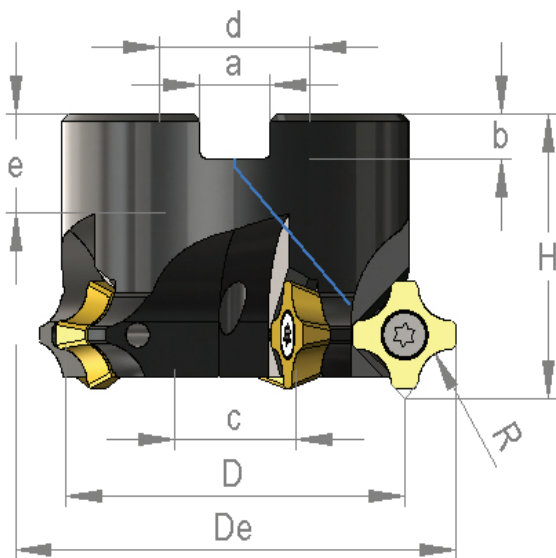
Order Code:		Dimension (mm)						Insert 	Screw 	Key 
		D	D1	L	L1	dh6	Z			
3016-012 W-W		12	23,7	100	50	16	1	SCXT 09T3 R..	M-VT40-6 3,0 Nm	M-BT15
3016-012 WL		12	23,7	200	50	16	1			
3016-016 W-W		16	28,8	100	50	16	2			
3016-016 WL		16	28,8	200	50	16	2			
3016-025 W-W		25	40,3	100	45	25	3			
3016-025 WL		25	40,3	200	45	25	3			
3016-025 W-W-12		25	40,5	100	45	25	3	SEXT 1204 R.. SEXT 1204 RR..	M-VT45 5,0 Nm	M-BT20
3016-025 WL-12		25	40,5	200	45	25	3			
3016-032 W-W		32	45	100	45	25	3			
3016-032 WL		32	45	200	45	25	3	XPKN 2204 R..	M-CVB55	M-CL2
3016-005 W-W		5	32,3	91	35	25	1			
3016-032 W-W-22		32	61	110	49	32	3			

Orderexample: 3016-012 W-W

W-W = coolant bores

Serie 3016 - Ausführungen

Serie 3016 - executions



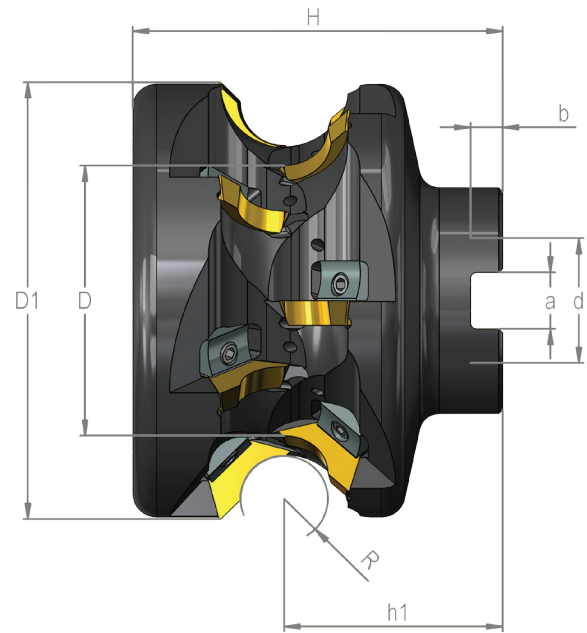
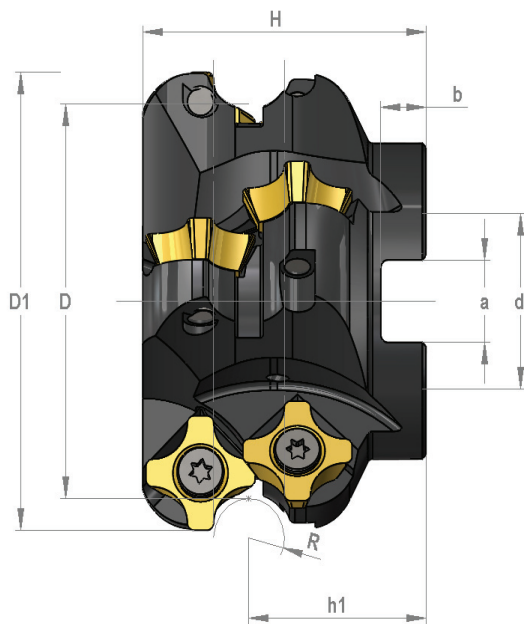
Order Code:		Dimension (mm)									Insert 	Screw 	Key 	clamping wedge
		D	De	d	c	e	a	b	H	Z				
3016 M-W D32		32	45	16	14	18	8,4	5,6	40	3	SEXT 1204 R.. SEXT 1204 RR..	M-VT45 5,0 Nm	M-BT20	
3016 M-W D40		40	53	16	14	18	8,4	5,6	40	4				
3016 M-W D50		50	63	22	18	20	10,4	6,3	48	5				
3016 M-W D63		63	92,5	22	18	20	10,4	6,3	48	6	XPKN 2204 R..	M-MS 1162	5003	M-SK 1355
3016 M-W D80		80	115,8	32	27	25	14,4	8	48	7	XPKN 3106 R..	M-MS 1162	5003	M-SK 1355

Orderexample: 3016 M-W D32

M-W = coolant bores

Serie 3017 - Ausführungen

Serie 3017 - executions



Order Code:		Dimension (mm)									Insert	Screw	Key	Clamping wedge
		D	D1	d	a	b	H	h1	Z	Zeff				
3017 M-W D50		50	61,7	22	10,4	6,3	40	25	8	4	SEXT 1204 R R.. SEXT 1204 L R..	M-VT45 5,0 Nm	M-BT20	
3017 M-W D80		80	105	32	14,4	8	75	50	12	6	XPKN 2204 R R.. XPKN 2204 L R..	M-MS 1162	5003	M-SK 1355
3017 M-W D80-31		80	112,7	32	14,4	8	85	55	12	6	XPKN 3106 R R.. XPKN 3106 L R..	M-MS 1162	5003	M-SK 1355

Orderexample: 3017 M-W D80 M-W = coolant bores

Delivery: including screws and clamping wedges

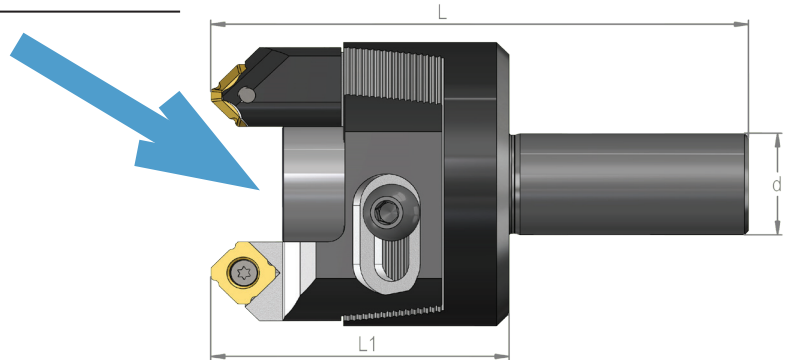
Serie 3018 - Ausführungen

Serie 3018 - executions

Adjustment cylinder for bores and pins

Assembly:

1. open cassettes
2. change cylinder to desired diameter
3. cassette on cylinder stop
4. tighten the cassette



Order Code:		Dimensions			Insert: 	screw: 	key: 	cassette: 
		L	L1	d				
3018 W-W D50		128	71	25	SEXT 1204 R R.. SEXT 1204 L R..	M-VT45 5,0 Nm	M-BT20	M-FN 450

Orderexample: 3018 W-W D50

Delivery incl. cassettes and screws

Execution:		Radius:	key:
3018 SI 25		R1 - R5	5004
3018 SI 26		R1 - R5	5004
3018 SI 27		R1 - R5	5004
3018 SI 28		R1 - R5	5004
3018 SI 29		R1 - R5	5004
3018 SI 30		R1 - R5	5004
3018 SI 31		R1 - R5	5004
3018 SI 32		R1 - R5	5004
3018 SI 33		R1 - R5	5004
3018 SI 34		R1 - R5	5004
3018 SI 35		R1 - R5	5004
3018 SI 36		R1 - R5	5004
3018 SI 37		R1 - R5	5004
3018 SI 38		R1 - R5	5004
3018 SI 39		R1 - R5	5004
3018 SI 40		R1 - R5	5004
3018 SI 41		R1 - R5	5004
3018 SI 42		R1 - R5	5004
3018 SI 43		R1 - R5	5004
3018 SI 44		R1 - R5	5004
3018 SI 45		R1 - R5	5004
3018 SI 46		R1 - R5	5004
3018 SI 47		R1 - R5	5004
3018 SI 48		R1 - R5	5004
3018 SI 49		R1 - R5	5004
3018 SI 50		R1 - R5	5004

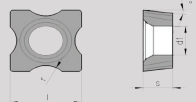
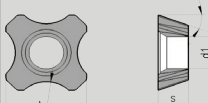
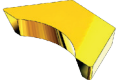
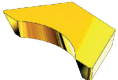
Orderexample: 3018 SI 36
Adjustment range bore Ø25-50

Execution:		Radius:	key:
3018 SA 18		R1 - R5	5004
3018 SA 19		R1 - R5	5004
3018 SA 20		R1 - R5	5004
3018 SA 21		R1 - R5	5004
3018 SA 22		R1 - R5	5004
3018 SA 23		R1 - R5	5004
3018 SA 24		R1 - R5	5004
3018 SA 25		R1 - R5	5004
3018 SA 26		R1 - R5	5004
3018 SA 27		R1 - R5	5004
3018 SA 28		R1 - R5	5004
3018 SA 29		R1 - R5	5004
3018 SA 30		R1 - R5	5004
3018 SA 31		R1 - R5	5004
3018 SA 32		R1 - R5	5004
3018 SA 33		R1 - R5	5004
3018 SA 34		R1 - R5	5004
3018 SA 35		R1 - R5	5004
3018 SA 36		R1 - R5	5004
3018 SA 37		R1 - R5	5004
3018 SA 38		R1 - R5	5004
3018 SA 39		R1 - R5	5004
3018 SA 40		R1 - R5	5004
3018 SA 41		R1 - R5	5004
3018 SA 42		R1 - R5	5004
3018 SA 43		R1 - R5	5004

Orderexample: 3018 SA 28
Adjustment range pin Ø18-43

Wendeplatten

Inserts

	Form Figure	Dimensions					Designation	screw	key		coated grades					
		l	d	s	d1	r					PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 SCXT ..		9,52		3,97		1,0	SCXT 09T3 R1	M-VT40-6	M-BT 15			■	■	■		■
		9,52		3,97		2,0	SCXT 09T3 R2	M-VT40-6	M-BT 15			■	■	■		■
		9,52		3,97		3,0	SCXT 09T3 R3	M-VT40-6	M-BT 15			■		■		■
 SEXT ..		12,70		4,76		1,0	SEXT 1204 R1	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		2,0	SEXT 1204 R2	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		3,0	SEXT 1204 R3	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		4,0	SEXT 1204 R4	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		5,0	SEXT 1204 R5	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		1,0	SEXT 1204 RR1	M-VT 45	M-BT 20		■	■	■		■	
		12,70		4,76		2,0	SEXT 1204 RR2	M-VT 45	M-BT 20		■	■	■		■	
		12,70		4,76		3,0	SEXT 1204 RR3	M-VT 45	M-BT 20		■	■	■		■	
		12,70		4,76		4,0	SEXT 1204 RR4	M-VT 45	M-BT 20		■	■	■		■	
		12,70		4,76		5,0	SEXT 1204 RR5	M-VT 45	M-BT 20		■	■	■		■	
 SEXT ..		12,70		4,76		1,0	SEXT 1204 L R1	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		2,0	SEXT 1204 L R2	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		3,0	SEXT 1204 L R3	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		4,0	SEXT 1204 L R4	M-VT 45	M-BT 20			■	■	■		■
		12,70		4,76		5,0	SEXT 1204 L R5	M-VT 45	M-BT 20			■	■			■
 XPKN ..		21,00		4,76		6,0	XPKN 2204 R R6					□	■			□
		21,00		4,76		7,0	XPKN 2204 R R7					□	■			□
		21,00		4,76		8,0	XPKN 2204 R R8					□	■			□
		21,00		4,76		10,0	XPKN 2204 R R10					□	■			□
		25,35		6,35		11,0	XPKN 3106 R R11						■	□		
		25,35		6,35		12,0	XPKN 3106 R R12						■	□		
		25,35		6,35		13,0	XPKN 3106 R R13						■	□		
		25,35		6,35		14,0	XPKN 3106 R R14						■	□		
		25,35		6,35		15,0	XPKN 3106 R R15						■	□		
 XPKN ..		21,00		4,76		6,0	XPKN 2204 L R6					□	■			□
		21,00		4,76		7,0	XPKN 2204 L R7					□	■			□
		21,00		4,76		8,0	XPKN 2204 L R8					□	■			□
		21,00		4,76		10,0	XPKN 2204 L R10					□	■			□
		25,35		6,35		11,0	XPKN 3106 L R11						■	□		
		25,35		6,35		12,0	XPKN 3106 L R12						■	□		
		25,35		6,35		13,0	XPKN 3106 L R13						■	□		
		25,35		6,35		14,0	XPKN 3106 L R14						■	□		
		25,35		6,35		15,0	XPKN 3106 L R15						■	□		

For machining on pins: Left-hand indexable insert
 For machining on bores: Right-hand indexable insert

TYP 3016 - 3017

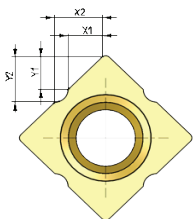
Vc (m/min)																			Öl	Emulsion	MMS	Trocken	Druckluft	
	Alu Kunst- stoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK						
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N						
PTV28					180	180	160	120													■		■	
PTT35					180	180	160	120						120	100					■			■	
PAP28																								
MTM10																140							■	
KTE20	400	400	300																		■		■	
K10																								
fz	0,1-0,15																		 geeignet  bedingt geeignet					

TYP 3018

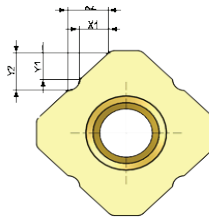
Vc (m/min)																			Öl	Emulsion	MMS	Trocken	Druckluft		
	Alu Kunst- stoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK							
	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N							
					180	180	160	120													■			■	
					180	180	160	120						120	100						■			■	
																140								■	
	400	400	300																		■			■	
	0,05-0,08																				■ geeignet	 bedingt geeignet			

Depending on the application condition, the cutting data can be corrected upwards or downwards.

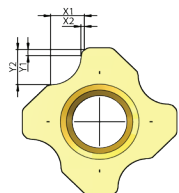
Parameter / parameters



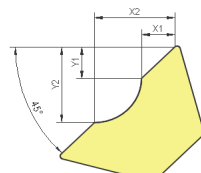
	X1	X2	Y1	Y2
SCXT 09T3 R1	2,59	3,59	2,59	3,59
SCXT 09T3 R2	2,09	4,09	2,09	4,09
SCXT 09T3 R3	1,59	4,59	1,59	4,59



	X1	X2	Y1	Y2
SEXT 1204 R1	2,49	3,49	2,49	3,49
SEXT 1204 R2	1,99	3,99	1,99	3,99
SEXT 1204 R3	1,49	4,49	1,49	4,49
SEXT 1204 R4	0,99	4,99	0,99	4,99
SEXT 1204 R5	0,49	5,49	0,49	5,49



	X1	X2	Y1	Y2
SEXT 1204 RR1	0,34	1,34	0,63	1,63
SEXT 1204 RR2	0,34	2,34	0,63	2,63
SEXT 1204 RR3	0,34	3,34	0,63	3,63
SEXT 1204 RR4	0,34	4,34	0,63	4,63
SEXT 1204 RR5	0,34	5,34	0,63	5,63

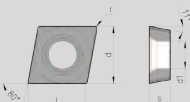
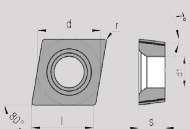


	X1	X2	Y1	Y2
XPKN 2204 R6	4,26	10,26	4,26	10,26
XPKN 2204 R7	3,76	10,76	3,76	10,76
XPKN 2204 R8	3,26	11,26	3,26	11,26
XPKN 2204 R10	2,26	12,26	2,26	12,26
XPKN 3106 R11	3,46	14,46	3,46	14,46
XPKN 3106 R12	2,96	14,96	2,96	14,96
XPKN 3106 R13	2,46	15,46	2,46	15,46
XPKN 3106 R14	1,96	15,96	1,96	15,96
XPKN 3106 R15	1,46	16,46	1,46	16,46

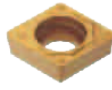
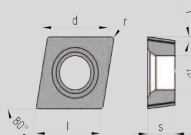
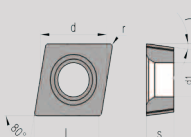
Technical drawing of a shaft-hub assembly. The drawing shows a shaft with a diameter of D and a minimum diameter of D_{min} at the left end. The shaft is inserted into a hub with an inner diameter of $dh6$ and an outer diameter of $D1$. The total length of the shaft is L . The length of the shaft section that is inserted into the hub is $L1$. The length of the shaft section that is not inserted into the hub is $L2$. The length of the shaft section that is not inserted into the hub and is also not covered by the hub's flange is $L3$. The distance from the left end of the shaft to the center of the hub is e .

D

W-W = coolant bores

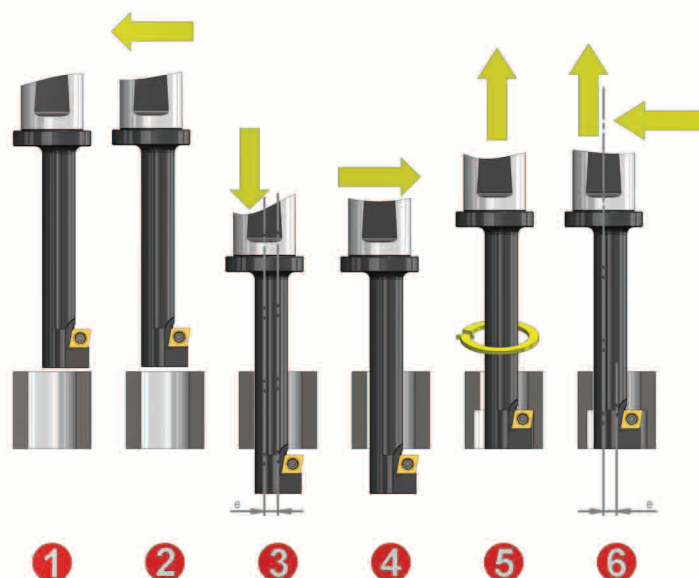
	Form Figure	Dimensions					Designation			Uncoated grades			coated grades					
		l	d	s	d1	r				CT28	K10		PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 CPMT ..																		
		5,60	5,60	2,00		0,2	CPMT 05T102	M-VT 22	M-BT 06						■			
		5,60	5,60	2,00		0,4	CPMT 05T104	M-VT 22	M-BT 06						■			
 CCGT.. ALU-M																		
		6,20	6,35	2,38		0,1	CCGT 060201 ALU-M	M-VT25	M-BT 08		■							■
		6,20	6,35	2,38		0,2	CCGT 060202 ALU-M	M-VT25	M-BT 08		■							■
		6,00	6,35	2,38		0,4	CCGT 060204 ALU-M	M-VT25	M-BT 08		■							■
		9,40	9,52	3,97		0,2	CCGT 09T302 ALU-M	M-VT40	M-BT 15		■							■
		9,20	9,52	3,97		0,4	CCGT 09T304 ALU-M	M-VT40	M-BT 15		■							■
		8,80	9,52	3,97		0,8	CCGT 09T308 ALU-M	M-VT40	M-BT 15		■							■
		12,40	12,70	4,76		0,4	CCGT 120404 ALU-M	M-VT41	M-BT 20		■							■
		12,40	12,70	4,76		0,8	CCGT 120408 ALU-M	M-VT41	M-BT 20		■							■

Series 3075 - Back chamfering milling cutter 180°

	Form Figure	Dimensions					Designation			Uncoated grades			coated grades					
		l	d	s	d1	r				CT28	K10		PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 CCMT .. WF		6,20	6,35	2,38		0,4	CCMT 060202 WF											
		6,00	6,35	2,38		0,4	CCMT 060204 WF			■			■			■	■	
		9,40	9,52	3,97		0,2	CCMT 09T302 WF						■			■		
		9,20	9,52	3,97		0,4	CCMT 09T304 WF			■			■			■	■	
		8,80	9,52	3,97		0,8	CCMT 09T308 WF						■		■	■	■	
		12,90	12,70	4,76		0,4	CCMT 120404 WF						■			■		
 CCMT .. WM		6,45	6,35	2,38		0,4	CCMT 060204 WM						■		■	■	■	
		6,45	6,35	2,38		0,8	CCMT 060208 WM						■		■	■	■	
		9,67	9,52	3,97		0,4	CCMT 09T304 WM						■		■	■	■	
		9,67	9,52	3,97		0,8	CCMT 09T308 WM						■		■	■	■	
		12,90	12,70	4,76		0,4	CCMT 120404 WM						■			■		
		12,90	12,70	4,76		0,8	CCMT 120408 WM						■			■	■	
		12,90	12,70	4,76		1,2	CCMT 120412 WM						■			■		

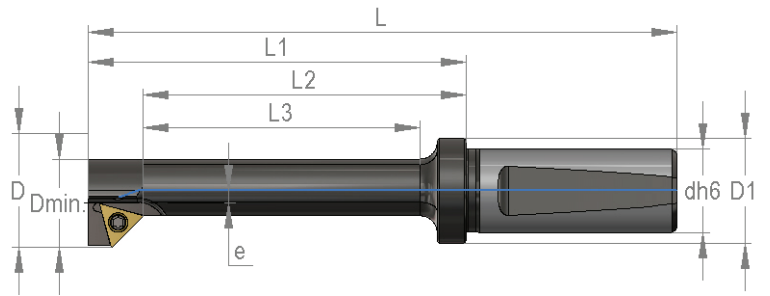
Vc (m/min)																		Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft	
	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN							
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N						
PTT20					120	120	100	100												■			■	
PTT35					120	120	100	100												■			■	
PAP28														120	90					■			■	
MTM10																120				■			■	
KTE20																								
K10																								
fz	0,1-0,2																		■ geeignet	□ bedingt geeignet				

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.



Series 3080 - Back chamfering milling cutter 45°

Execution: Back chamfering milling cutter 45°,
with inner coolant
Delivery: without insert, without screwdriver
Application: for back-chamfering



Order Code:	Dimension (mm)									Insert	Screw	Key
	D	Dmin	L	L1	L2	L3	dh6	D1	e			
3080 W D15	15	10	105	55	42	35	20	25	2,7	TCMT 0802..	M-VT20 0,6 Nm	M-BT06
3080 W-W D20	20	15	110	60	47	40	20	25	3,2			
3080 W-W D23	23	17	120	70	57	50	20	25	3,2	TCMT 1102.. TCGT 1102..	M-VT25 1,2 Nm	M-BT08
3080 W-W D27	27	21	140	90	77	70	20	25	3,2			
3080 W-W D31	31	24	150	100	87	80	20	25	3,7			

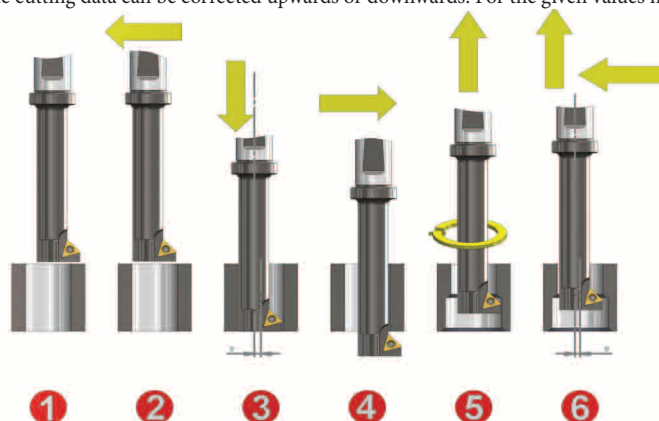
Orderexample: 3080 W D15

W-W = coolant bores

	Form Figure	Dimensions					Designation			Uncoated grades		coated grades					
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
		7,60	4,76	2,38		0,4	TCMT 080204 WF	M-VT 20	M-BT 06			■					
		11,00	6,35	2,38		0,4	TCMT 110204 WM	M-VT25	M-BT 08			■		■		■	
		11,00	6,35	2,38		0,8	TCMT 110208 WM	M-VT 25	M-BT 08			■		■		■	
		10,50	6,35	2,38		0,2	TCGT 110202 ALU-M	M-VT 25	M-BT 08	■							■
		10,00	6,35	2,38		0,4	TCGT 110204 ALU-M	M-VT 25	M-BT 08	■							■

Vc (m/min)																			Öl	Emulsion	MMS	Trocken	Druckluft
	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK					
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTT20					120	120	100	100															
PTT35					120	120	100	100															
PAP28														120	90								
MTM10																120							
KTE20	400	400	300																				
K10	300	300	250																				
fz	0,1-0,2																		■ geeignet □ bedingt geeignet				

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

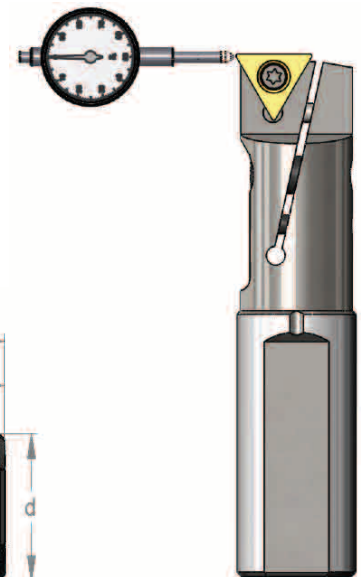
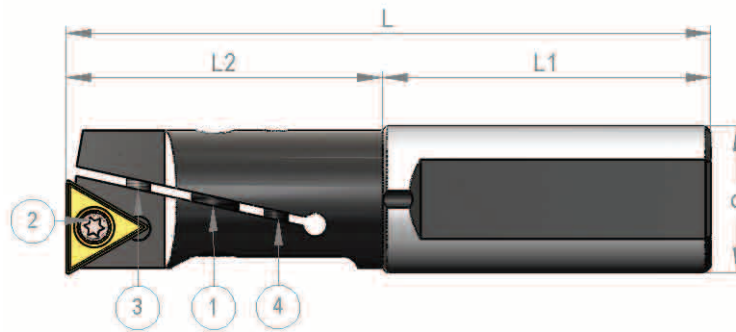


Series 3085 - Adjustment boring bars



Execution: Adjustable boring-bars with cyl. shaft and coolant channel
Delivery: without insert, without screwdriver
Application: for finishing operations

Working diameter: from Ø 7mm to 55mm



With coolant channel

Order Code:	Abmessungen / Dimension (mm)						1.	2.	3.	4.	
	L	L1	L2	d	D min.	D max.	Clamp screw	insert screw	Adjustment screw	Clamp screw	
3085 M.E.B.-07 WL	90	38	52	10	7	8	M-BL9	M-VT 20	M-RE 9	M-RE 9-1	TPGX 0601..L
3085 M.E.B.-08 WL	90	38	52	10	8	10	M-B10	M-VT 20	M-RE 10	M-RE 10-1	
3085 M.E.B.-10 WL	100	40	60	10	10	12	M-BL0	M-VT 20	M-RE 0	M-RE 0-1	
3085 M.E.B.-12 WL	105	45	60	12	12	15	M-BL1	M-VT 20	M-RE 1		TPGX 0802..L
3085 M.E.B.-12 WXL	130	45	85	12	12	15	M-BL1	M-VT 20	M-RE 1		
3085 M.E.B.-15 WL	110	48	62	16	15	20	M-BL2	M-VT 20	M-RE 2	M-RE 2-1	
3085 M.E.B.-15 WXL	140	48	92	16	15	20	M-BL2	M-VT 20	M-RE 2	M-RE 2-1	TCMT 1102..
3085 M.E.B.-20 W	100	50	50	20	20	25	M-BL3	M-VT 25	M-RE 3	M-RE 3-1	
3085 M.E.B.-20 WL	120	50	70	20	20	25	M-BL3	M-VT 25	M-RE 3	M-RE 3-1	
3085 M.E.B.-20 WXL	150	50	100	20	20	25	M-BL3	M-VT 25	M-RE 3	M-RE 3-1	TCMT 16T3..
3085 M.E.B.-25 W	110	56	54	25	25	30	M-BL4	M-VT 40	M-RE 4	M-RE 4-1	
3085 M.E.B.-25 WL	140	56	84	25	25	30	M-BL4	M-VT 40	M-RE 4	M-RE 4-1	
3085 M.E.B.-25 WXL	170	56	114	25	25	30	M-BL4	M-VT 40	M-RE 4	M-RE 4-1	
3085 M.E.B.-30 W	120	56	64	25	30	35	M-BL5	M-VT 40	M-RE 5	M-RE 5-1	
3085 M.E.B.-30 WL	160	56	104	25	30	35	M-BL5	M-VT 40	M-RE 5	M-RE 5-1	
3085 M.E.B.-30 WXL	190	56	134	25	30	35	M-BL5	M-VT 40	M-RE 5	M-RE 5-1	
3085 M.E.B.-35 W	120	60	60	32	35	40	M-BL6	M-VT 40	M-RE 6	M-RE 6-1	
3085 M.E.B.-35 WL	170	60	110	32	35	40	M-BL6	M-VT 40	M-RE 6	M-RE 6-1	
3085 M.E.B.-35 WXL	220	60	160	32	35	40	M-BL6	M-VT 40	M-RE 6	M-RE 6-1	
3085 M.E.B.-40 W	130	60	70	32	40	45	M-BL7	M-VT 40	M-RE 7	M-RE 7-1	
3085 M.E.B.-40 WL	190	60	130	32	40	45	M-BL7	M-VT 40	M-RE 7	M-RE 7-1	
3085 M.E.B.-45 W	150	60	90	32	45	50	M-BL8	M-VT 40	M-RE 8	M-RE 8-1	
3085 M.E.B.-45 WL	220	60	160	32	45	50	M-BL8	M-VT 40	M-RE 8	M-RE 8-1	
3085 M.E.B.-50 W	150	60	90	32	50	55	M-BL8	M-VT 40	M-RE 8	M-RE 8-1	
3085 M.E.B.-50 WL	220	60	160	32	50	55	M-BL8	M-VT 40	M-RE 8	M-RE 8-1	

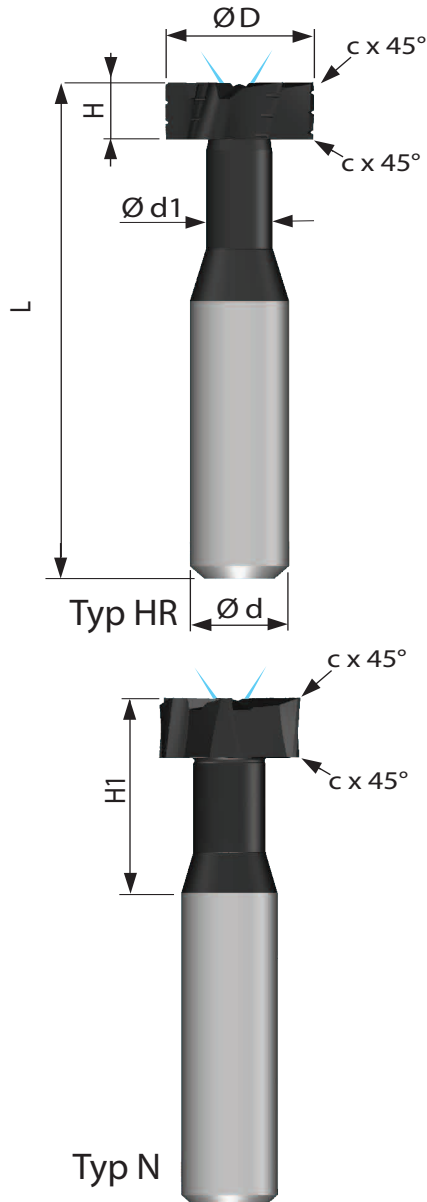
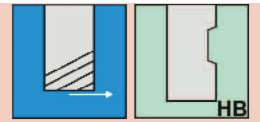
Orderexample: 3085 M.E.B.-07 WL

W = short

WL = long

WXL = extra long

1090... Solid carbide T-Slot milling cutter - IKZ



Ø D	H	Ø d	Ø d1	L	H1	Z	c x 45°	fz
11,0-HR	4	10	4	54	13	6	0,2	0,030
12,5-HR	6	10	5	57	13	6	0,2	0,030
16,0-HR	8	10	7	62	18	6	0,2	0,030
18,0-HR	8	12	8	70	21	6	0,2	0,030
19,0-HR	9	12	8	71	25	6	0,2	0,030
21,0-HR	9	12	10	74	28	6	0,2	0,030
22,0-HR	10	12	10	75	26	6	0,2	0,030
25,0-HR	11	16	12	82	28	6	0,2	0,030
28,0-HR	12	16	13	85	31	6	0,2	0,030
32,0-HR	14	16	15	90	36	6	0,2	0,040
36,0-HR	16	25	17	103	40	8	0,2	0,040
40,0-HR	18	25	19	108	45	6	0,2	0,040
11,0-N	4	10	4	54	13	6	0,2	0,030
12,5-N	6	10	5	57	13	6	0,2	0,030
16,0-N	8	10	7	62	18	6	0,2	0,030
18,0-N	8	12	8	70	21	6	0,2	0,030
19,0-N	9	12	8	71	25	6	0,2	0,030
21,0-N	9	12	10	74	28	6	0,2	0,030
22,0-N	10	12	10	75	26	6	0,2	0,030
25,0-N	11	16	12	82	28	8	0,2	0,030
28,0-N	12	16	13	85	31	8	0,2	0,030
32,0-N	14	16	15	90	36	8	0,2	0,040
36,0-N	16	25	17	103	40	8	0,2	0,040
40,0-N	18	25	19	108	45	10	0,2	0,040

Orderexample: 1090.025.16,0-HR



Werk-
norm

Universal

ALTIN
.025

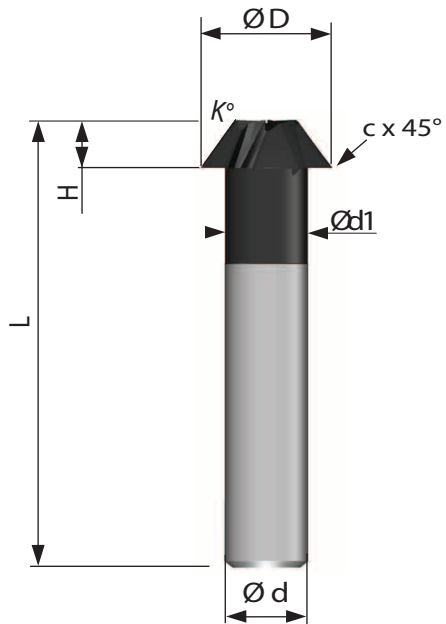
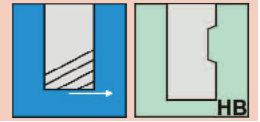
Typ N

D40 = without IK

Eignung / Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■ geeignet	□ bedingt geeignet			
Vc				110	90	90	80	60															

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

1091... Solid carbide T-Slot milling cutter



Werk-
norm

Universal

ALTIN
.025

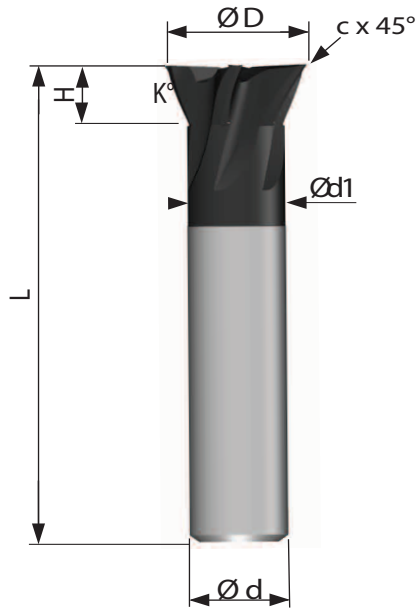
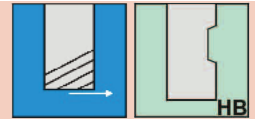
Ø D	H	Ø d	Ø d1	L	K°	Z	c x 45°	fz
16	4	10	8	60	45°	6	0,2	0,040
20	5	12	10	63	45°	8	0,2	0,040
22	6	12	10,2	63	45°	8	0,2	0,040
25	6,3	12	11	63	45°	8	0,2	0,043
28	7,5	16	14	80	45°	10	0,2	0,043
32	8	16	15	80	45°	10	0,2	0,045
38	10	16	15	80	45°	10	0,2	0,045
16	6,3	10	8,2	60	60°	6	0,2	0,040
20	8	12	10,5	63	60°	8	0,2	0,040
22	9	12	10,2	63	60°	8	0,2	0,040
25	10	12	11,5	63	60°	8	0,2	0,043
28	11	16	14	80	60°	10	0,2	0,043
32	12,5	16	15	80	60°	10	0,2	0,045
38	16	16	15	80	60°	10	0,2	0,045

Orderexample: 1091.025.16,0-45°

Eignung / Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■ geeignet	■	□ bedingt geeignet	□	□
Vc				110	90	90	80	60															

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

1092...Solid carbide angel milling cutter



Werk-
norm

Universal

ALTIN
.025

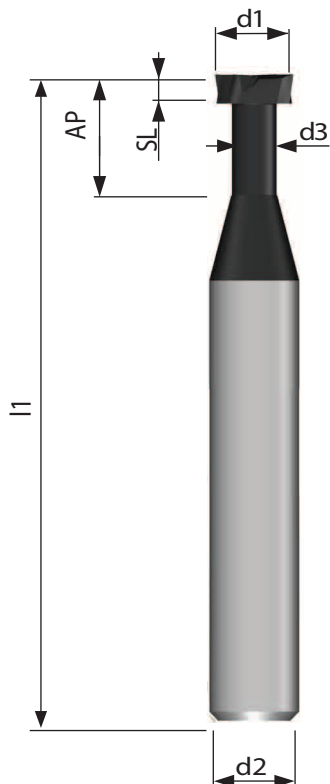
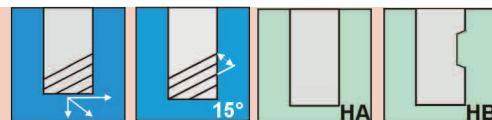
Ø D	H	Ø d	Ø d1	L	K°	Z	c x 45°	fz
16	4	10	6,7	60	45°	6	0,2	0,040
20	5	12	7	63	45°	8	0,2	0,040
22	6	12	8	63	45°	8	0,2	0,040
25	6,3	12	8	63	45°	8	0,2	0,043
28	7,5	16	8,5	80	45°	10	0,2	0,043
32	8	16	13,0	80	45°	10	0,2	0,045
38	10	16	15,0	80	45°	10	0,2	0,045
16	6,3	10	6	60	60°	6	0,2	0,040
20	8	12	7,8	63	60°	8	0,2	0,040
22	9	12	10	63	60°	8	0,2	0,040
25	10	12	9	63	60°	8	0,2	0,043
28	11	16	13	80	60°	10	0,2	0,043
32	12,5	16	15	80	60°	10	0,2	0,045
38	16	16	15	80	60°	10	0,2	0,045

Orderexample: 1092.025.16,0-45°

Eignung / Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■ geeignet	□ bedingt geeignet			
Vc				110	90	90	80	60												■			

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

1093... Solid carbide T-Slot milling cutter



Werks-
norm

Universal

ALTIN
.025

Ø d1	Ø d2	Ø d3	l1	SL	AP	Z	fz
2,0	6	1,0	50	0,3	5	4	0,0010
2,0	6	1,0	50	0,5	5	4	0,0010
3,0	6	1,5	50	0,3	5	4	0,0015
3,0	6	1,5	50	0,5	5	4	0,0015
3,0	6	1,5	50	1,0	5	4	0,0015
4,0	6	2,0	50	0,3	5	4	0,0020
4,0	6	2,0	50	0,5	5	4	0,0020
4,0	6	2,0	50	1,0	5	4	0,0020
5,0	6	2,5	50	0,5	5	4	0,0025
5,0	6	2,5	50	1,0	5	4	0,0025
5,0	6	2,5	50	1,5	6	4	0,0025
5,0	6	2,5	50	2,0	6	4	0,0025
6,0	6	3,0	60	0,5	6	4	0,0025
6,0	6	3,0	60	1,0	6	4	0,0025
6,0	6	3,0	60	1,5	6	4	0,0025
6,0	6	3,0	60	2,0	6	4	0,0025
8,0	8	4,0	60	0,5	6	4	0,0030
8,0	8	4,0	60	1,0	6	4	0,0030
8,0	8	4,0	60	1,5	8	4	0,0030
8,0	8	4,0	60	2,0	8	4	0,0030
8,0	8	4,0	60	3,0	8	4	0,0035
10,0	10	5,0	70	1,0	12	4	0,0035
10,0	10	5,0	70	2,0	12	4	0,0035
10,0	10	5,0	70	3,0	12	4	0,0035

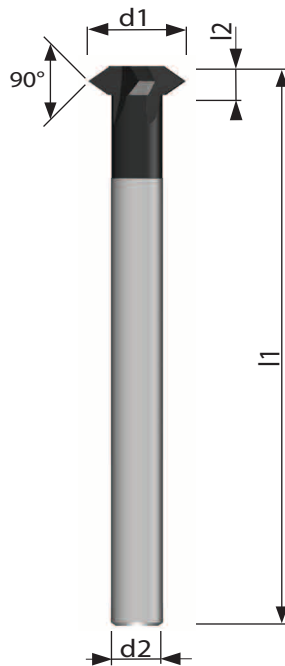
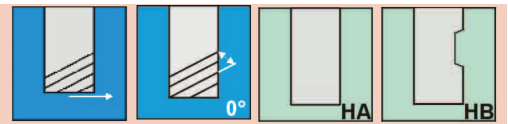
Orderexample: 1093.025.6,0-1,0-HA

Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■	■	■	■	■
Vc				110	90	90	80	60															

Depending on the application condition, the cutting data can be corrected upwards or downwards.

For the given values no liability is assumed.

1100... Solid carbide forward-/ and backchamfer milling, z4



Werks-
norm

Universal

ALTIN
.025

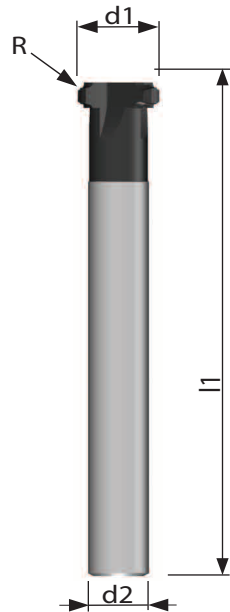
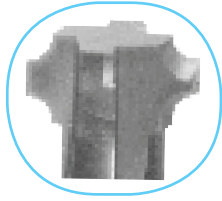
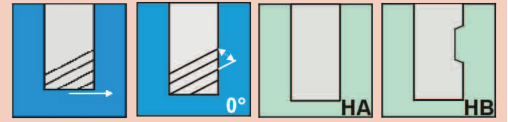
Ø d1	Ø d2	Ø d3	l1	l2	AP	Z	fz
2,0	6	1,25	100	1,2	8	4	0,010
3,0	6	2,05	100	1,8	8	4	0,010
4,0	6	1,95	100	2	10	4	0,010
6,0	6	4,0	100	2	15	4	0,010
8,0	6	-	100	2	-	4	0,012
10,0	6	-	100	4	-	4	0,014
12,0	6	-	100	4	-	4	0,015
16,0	10	-	100	5	-	4	0,016

Orderexample: 1100.025.6,0-HA

Eignung / Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■ geeignet	□ bedingt geeignet			
Vc		115	70	65	65	40	40							35		40				□		■	

.Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

1101... Solid carbide quarter circle milling



R	gr.Ød1	kl.Ød1	Ød2	l1	Z	fz
0,2	8	7,6	6	100	4	0,010
0,3	8	7,4	6	100	4	0,010
0,4	8	7,2	6	100	4	0,010
0,5	8	7,0	6	100	4	0,010
0,8	10	8,4	6	100	4	0,010
1,0	10	8,0	6	100	4	0,010
1,2	10	7,6	6	100	4	0,010
1,5	10	7,0	6	100	4	0,010

Orderexample: 1101.025.0,5-HA

Werk-
norm

Universal

ALTIN
.025

Eignung / Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N	■ geeignet	□ bedingt geeignet			
Vc		115	70	65	65	40	40							35		40				■	□		

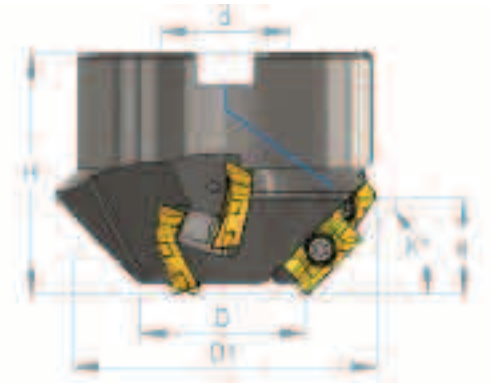
Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.



Series 3048 - Milling cutter for chamfering



Execution: Facecutter, stable run and less vibration, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering



Order Code:	Dimension (mm)								Insert	Screw	Key
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
3048 MW 15°	17	53	16	40	15°	5	3	6	APKT 1003.. PDSR ..	M-VT25 1,2 Nm	M-BT08
3048 MW 30°	17	50	16	40	30°	9,5	3	6			
3048 MW 45°	17	44	16	40	45°	13,5	3	6			
3048 MW 60°	17	36	16	40	60°	16,5	3	6			
3048 MW 75°	19	29	16	60	75°	18,5	3	6			

Orderexample: 3048 MW 15°

MW = coolant bores

Zeff. = effective teeth

	Form Figure	Dimensions					Designation			coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
		10,50	6,70	3,50		0,5	APKT 1003 PDSR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		0,8	APKT 100308 PDSR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		1,2	APKT 100312 PDSR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		1,6	APKT 100316 PDSR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		2,0	APKT 100320 PDSR	M-VT 25	M-BT 08				■	■	■	■	■

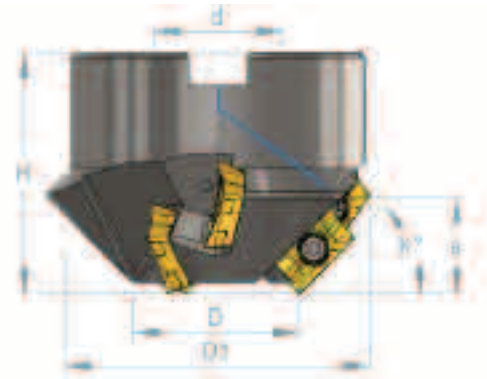
Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTV28					300	250	230	200												■			
PTT35							230	200												■			
PAP28														200	180					■			
MTM10																220				■			
KTE20	600	600	400																	■			
K10																							
fz	0,1 - 0,15																		■ geeignet	□ bedingt geeignet			

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

Series 3050 - Milling cutter for chamfering



Execution: Facecutter, stable run and less vibration, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering

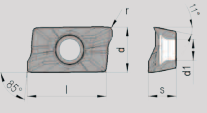


Order Code:	Dimension (mm)								Insert 	Screw 	Key 
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
3050 MW 15°	35	92	27	50	15°	8	3	6	APKT 1604..	M-VT40 3,0 Nm	M-BT15
3050 MW 30°	35	86	27	50	30°	14,5	3	6			
3050 MW 45°	35	77	27	50	45°	21	3	6			
3050 MW 60°	35	64	27	50	60°	25,5	3	6			
3050 MW 75°	35	50	22	50	75°	29,4	3	6			

Orderexample: 3050 MW 15°

MW = coolant bores

Zeff. = effective teeth

	Form Figure	Dimensions					Designation	Screw	Key	coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 APKT...		16,00	9,45	5,26		0,8	APKT 1604 PDER	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		1,2	APKT 160412 PDER	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		1,6	APKT 160416 PDER	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		2,4	APKT 160424 PDER	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		3,0	APKT 160430 PDER	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		4,0	APKT 160440 PDER	M-VT 40	M-BT 15				■	■	■	■	■

Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTV28					300	250	230	200											■	■		■	
PTT35							230	200											■	■		■	
PAP28														200	180				■	■		■	
MTM10																220			■	■		■	
KTE20	600	600	400																■	■		■	
K10																							
fz	0,2 - 0,25																		■ geeignet	■ bedingt geeignet			

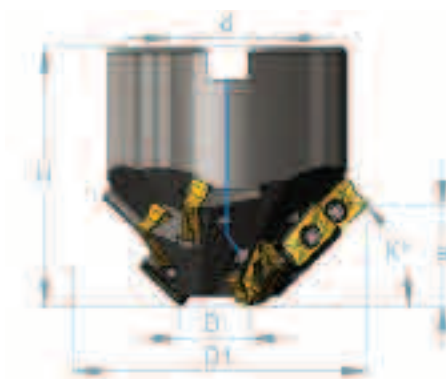
Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

Series 2028 - Milling cutter for chamfering



B

Execution: Facecutter, stable run and less vibration, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering

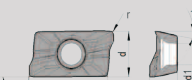


Order Code:	Dimension (mm)								Insert	Screw	Key
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
2028 MW 15°	17	53	16	40	15°	5	3	6	XPKT 11T3.. PDR ..	M-VT25 1,2 Nm	M-BT08
2028 MWL 15°	17	70	22	50	15°	7,5	3	9			
2028 MW 30°	17	50	16	40	30°	9,5	3	6			
2028 MWL 30°	17	65	22	50	30°	14	3	9			
2028 MWL 40°	17	59	22	50	40°	18	3	9			
2028 MW 45°	17	44	16	40	45°	13,5	3	6			
2028 MWL 45°	17	56	22	50	45°	20	3	9			
2028 MW 60°	17	36	16	40	60°	16,5	3	6			
2028 MWL 60°	17	45	22	50	60°	24,5	3	9			
2028 MW 75°	19	29	16	60	75°	18,5	3	6			
2028 MWL 75°	19	33	16	60	75°	27,5	3	9			

Orderexample: 2028 MW 15°

MW = coolant bores

Zeff. = effective teeth

	Form Figure	Dimensions					Designation	Screw	Keyl			coated grades						
		l	d	s	d1	r				CT28	K10		PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 XPKT...																		
		10,50	6,70	3,50		0,5	XPKT 11T305 PDR	M-VT 25	M-BT 08					■	■	■	■	■
		10,50	6,70	3,50		0,8	XPKT 11T308 PDR	M-VT 25	M-BT 08					■	■	■	■	■
		10,50	6,70	3,50		1,2	XPKT 11T312 PDR	M-VT 25	M-BT 08					■	■	■	■	■
		10,50	6,70	3,50		1,6	XPKT 11T316 PDR	M-VT 25	M-BT 08					■	■	■	■	■
		10,50	6,70	3,50		2,0	XPKT 11T320 PDR	M-VT 25	M-BT 08					■	■	■	■	■

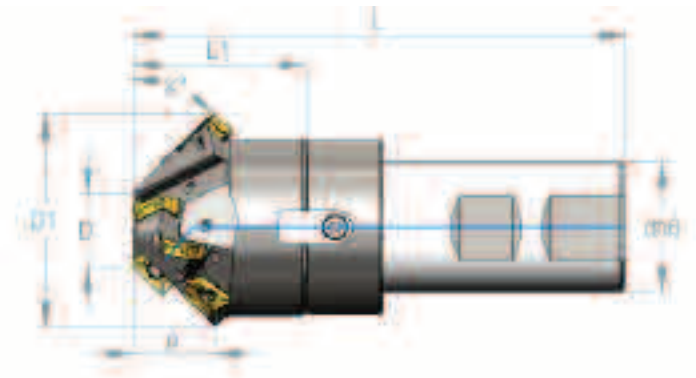
Vc (m/min)																		Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN						
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTV28					300	250	230	200												■			■
PTT35							230	200												■			■
PAP28														200	180					■			■
MTM10																220				■			■
KTE20	600	600	400																	■			■
K10																							
fz	0,1 - 0,15																		■ geeignet	□ bedingt geeignet			

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

Series 2028 - Milling cutter for chamfering



Execution: Facecutter, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering



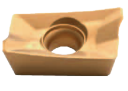
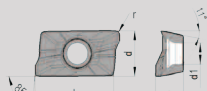
B

Order Code:	Dimension (mm)									Insert	Screw	Key
	D	D1	dh6	L1	L	K°	a	Zeff.	Complete insert units			
2028 W-W 15°	17	53	25	40	115	15°	5	3	6	XPKT 11T3.. PDR ..	M-VT25 1,2 Nm	M-BT08
2028 W-W 30°	17	50	25	40	115	30°	9,5	3	6			
2028 W-W 45°	17	44	25	40	115	45°	13,5	3	6			
2028 W-W 60°	17	36	25	40	115	60°	16,5	3	6			
2028 W-W 75°	19	29	25	60	135	75°	18,5	3	6			

Orderexample: 2028 W-W 15°

W-W = coolant bores

Zeff. = effective teeth

	Form Figure	Dimensions					Designation	Screw	Key	coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 XPKT...		10,50	6,70	3,50		0,5	XPKT 11T305 PDR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		0,8	XPKT 11T308 PDR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		1,2	XPKT 11T312 PDR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		1,6	XPKT 11T316 PDR	M-VT 25	M-BT 08				■	■	■	■	■
		10,50	6,70	3,50		2,0	XPKT 11T320 PDR	M-VT 25	M-BT 08				■	■	■	■	■

Vc (m/min)	Alu			Stahl										INOX		GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
	Kunststoff		Guss	< 500 N	< 750 N	< 900 N	< 1100 N	< 1400 N	< 55 HRC	< 60 HRC	< 65 HRC	< 67 HRC	< 70 HRC	< 900 N	> 900 N								
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTV28					300	250	230	200															
PTT35							230	200															
PAP28														200	180								
MTM10																220							
KTE20	600	600	400																				
K10																							
fz	0,1 - 0,15																		 geeignet	 bedingt geeignet			

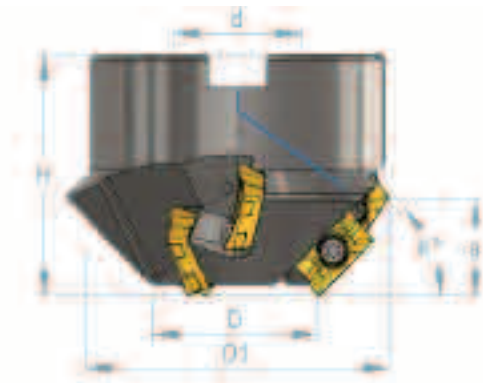
Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

Series 2034 - Milling cutter for chamfering



B

Execution: Facecutter, stable run and less vibration, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering

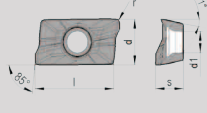


Order Code:	Dimension (mm)								Insert	Screw	Key
	D	D1	d	H	K°	a	Z _{eff}	Complete insert units			
2034 MW 15°	35	92	27	50	15°	8	3	6	XPKT 1705.. PDR..	M-VT40 3,0 Nm	M-BT15
2034 MW 30°	35	84	27	50	30°	15	3	6			
2034 MW 45°	35	74	27	50	45°	21	3	6			
2034 MW 60°	35	62	27	50	60°	26,5	3	6			
2034 MW 75°	35	47	27	60	75°	29,5	3	6			

Orderexample: 2034 MW 15°

MW = coolant bores

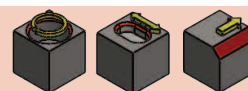
Z_{eff} = effective teeth

	Form Figure	Dimensions					Designation	Screw	Key	coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 XPKT...		16,00	9,45	5,26		0,8	XPKT 170508 PDR	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		1,2	XPKT 170512 PDR	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		1,6	XPKT 170516 PDR	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		2,4	XPKT 170524 PDR	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		3,0	XPKT 170530 PDR	M-VT 40	M-BT 15				■	■	■	■	■
		16,00	9,45	5,26		4,0	XPKT 170540 PDR	M-VT 40	M-BT 15								

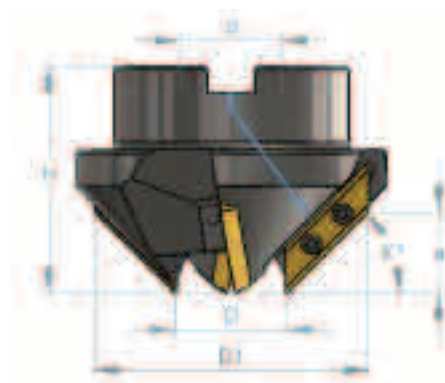
Vc (m/min)	Alu			Stahl										INOX		GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft	
	Kunststoff		Guss	< 500 N	< 750 N	< 900 N	< 1100 N	< 1400 N	< 55 HRC	< 60 HRC	< 65 HRC	< 67 HRC	< 70 HRC	< 900 N	> 900 N									
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N						
PTV28					300	250	230	200												■			■	
PTT35							230	200												■			■	
PAP28														200	180					■			■	
MTM10																220							■	
KTE20	600	600	400																	■			■	
K10																								
fz	0,2 - 0,25																		 geeignet	 bedingt geeignet				

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

Series 2036 - Milling cutter for chamfering



Execution: Facecutter, with inner coolant
Delivery: without insert, without screwdriver
Application: universal application, face milling and chamfering

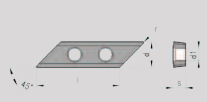


B

Order Code:	Dimension (mm)							Insert 	Screw 	Key 
	D	D1	d	H	K°	a	Zeff.			
2036 MW 15°	30	88	27	50	15°	7,5	4	LCEX 310404..	M-VT40 3,0 Nm	M-BT15
2036 MW 30°	30	82	27	50	30°	15	4			
2036 MW 40°	30	76	27	50	40°	19,5	4			
2036 MW 45°	30	72,7	27	50	45°	21	4			
2036 MW 60°	30	60	27	50	60°	26	4			
2036 MW 75°	30	45,7	22	60	75°	29	4			

Orderexample: 2036 MW 15°

Zeff. = effective teeth

	Form Figure	Dimensions					Designation	Screw	Key	coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
		30,90	9,53	4,76		0,4	LCEX 310404 WF	M-VT 40	M-BT 15				■				
		30,90	9,53	4,76		0,4	LCEX 310404 WM	M-VT 40	M-BT 15				■				

Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H	H	H	H	H	M	M	K	S	N					
PTV28					250	250	200	180						140	130	120				■			■
PTT35																							
PAP28																							
MTM10																							
KTE20																							
K10																							
fz	0,1-0,15																		■ geeignet		□ bedingt geeignet		

Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.