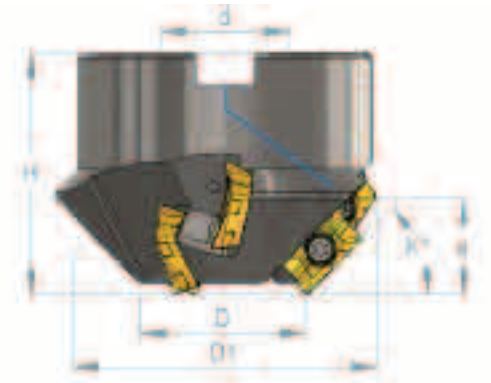


Series 3048 - Milling cutter for chamfering



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				■	■	■	■	■

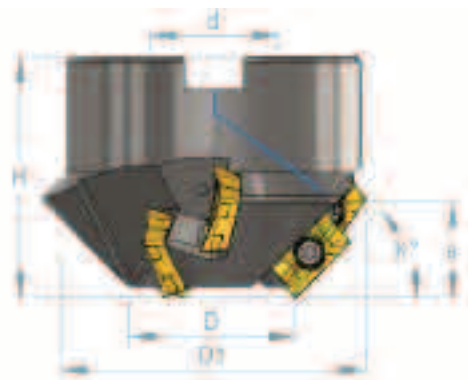
Vc (m/min)	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft
ISO-Code	N	N	N	P	P	P	P	P	H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

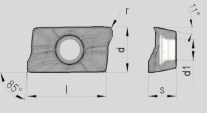


Order Code:	Dimension (mm)								Insert 	Screw 	Key 
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
3050 MW 15°	35	92	27	50	15°	8	3	6	APKT 1604..	M-VT40 3,0 Nm	M-BT15
3050 MW 30°	35	86	27	50	30°	14,5	3	6			
3050 MW 45°	35	77	27	50	45°	21	3	6			
3050 MW 60°	35	64	27	50	60°	25,5	3	6			
3050 MW 75°	35	50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

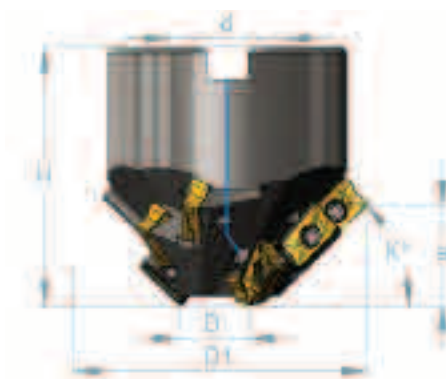
Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

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

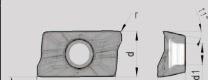


Order Code:	Dimension (mm)								Insert 	Screw 	Key 
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
2028 MW 15°	17	53	16	40	15°	5	3	6	XPKT 11T3.. PDR ..	M-VT25 1,2 Nm	M-BT08
2028 MWL 15°	17	70	22	50	15°	7,5	3	9			
2028 MW 30°	17	50	16	40	30°	9,5	3	6			
2028 MWL 30°	17	65	22	50	30°	14	3	9			
2028 MWL 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					■	■	■	■	■

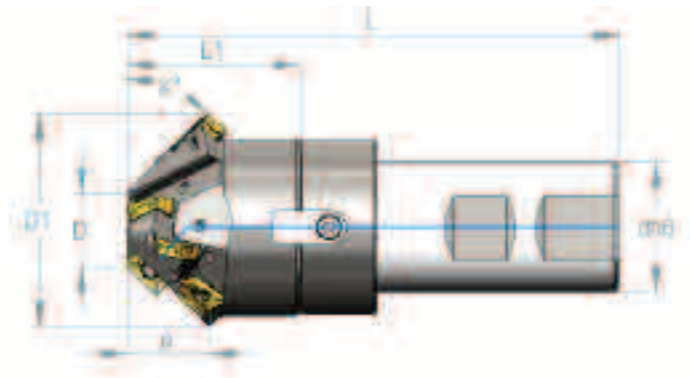
Vc (m/min)																		Graphit GFK CFK	Öl	Emulsion	MMS	Trocken	Druckluft	
	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN							
ISO-Code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



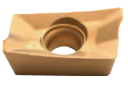
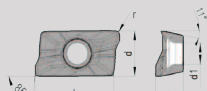
B

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			

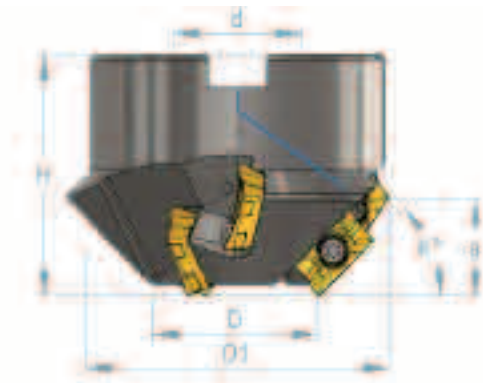
Depending on the application condition, the cutting data can be corrected upwards or downwards. For the given values no liability is assumed.

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

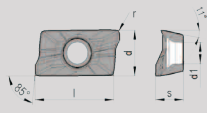


Order Code:	Dimension (mm)								Insert 	Screw 	Key 
	D	D1	d	H	K°	a	Zeff.	Complete insert units			
2034 MW 15°	35	92	27	50	15°	8	3	6	XPKT 1705.. PDR..	M-VT40 3,0 Nm	M-BT15
2034 MW 30°	35	84	27	50	30°	15	3	6			
2034 MW 45°	35	74	27	50	45°	21	3	6			
2034 MW 60°	35	62	27	50	60°	26,5	3	6			
2034 MW 75°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

Orderexample: 2034 MW 15°

MW = coolant bores

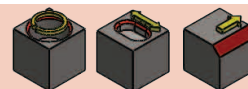
Zeff. = effective teeth

	Form Figure	Dimensions					Designation	Screw	Key	coated grades							
		l	d	s	d1	r				CT28	K10	PTT20	PTV28	PTT35	PAP28	MTM10	KTE20
 XPKT...		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								

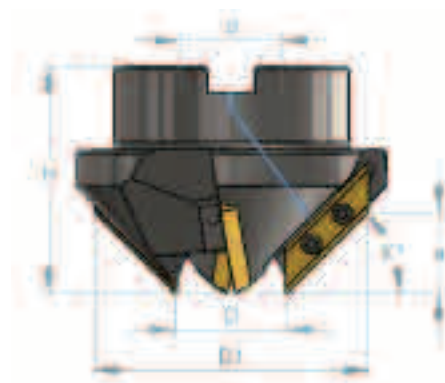
Vc (m/min)																			Öl	Emulsion	MMS	Trocken	Druckluft
	Alu Kunststoff	Alu	Alu Guss	Stahl < 500 N	Stahl < 750 N	Stahl < 900 N	Stahl < 1100 N	Stahl < 1400 N	Stahl < 55 HRC	Stahl < 60 HRC	Stahl < 65 HRC	Stahl < 67 HRC	Stahl < 70 HRC	INOX < 900 N	INOX > 900 N	GG(G)	TITAN	Graphit GFK CFK					
ISO-Code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

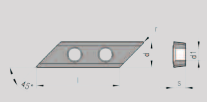


B

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.