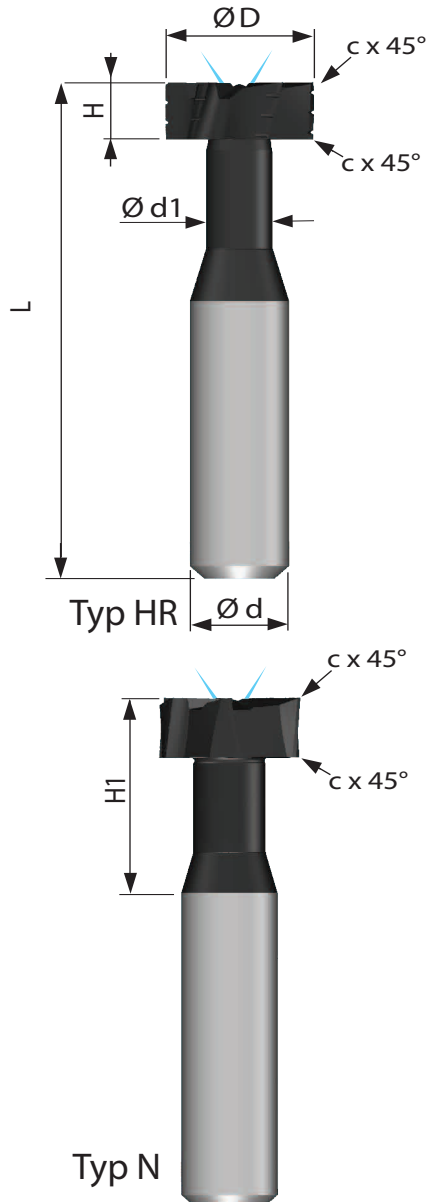
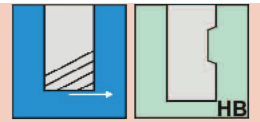


1090... Solid carbide T-Slot milling cutter - IKZ



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

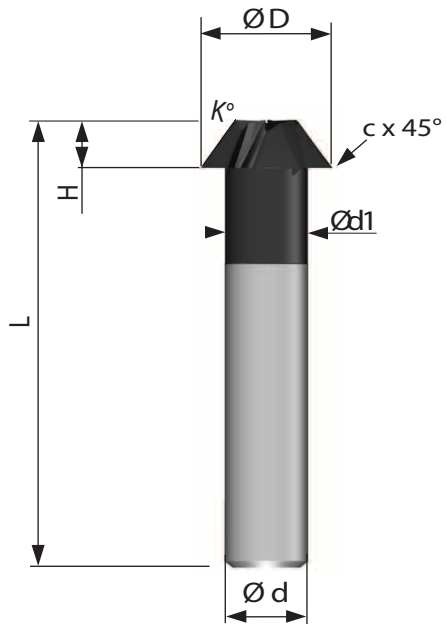
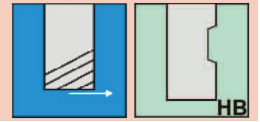
Typ N

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

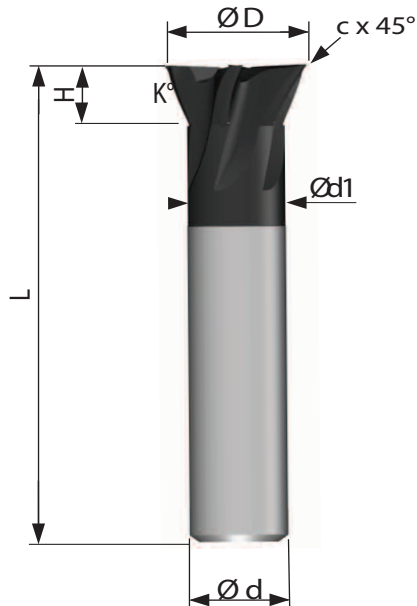
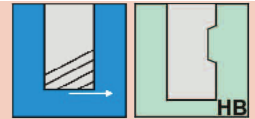
Ø D	H	Ø d	Ø d1	L	K°	Z	c x 45°	fz
16	4	10	8	60	45°	6	0,2	0,040
20	5	12	10	63	45°	8	0,2	0,040
22	6	12	10,2	63	45°	8	0,2	0,040
25	6,3	12	11	63	45°	8	0,2	0,043
28	7,5	16	14	80	45°	10	0,2	0,043
32	8	16	15	80	45°	10	0,2	0,045
38	10	16	15	80	45°	10	0,2	0,045
16	6,3	10	8,2	60	60°	6	0,2	0,040
20	8	12	10,5	63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

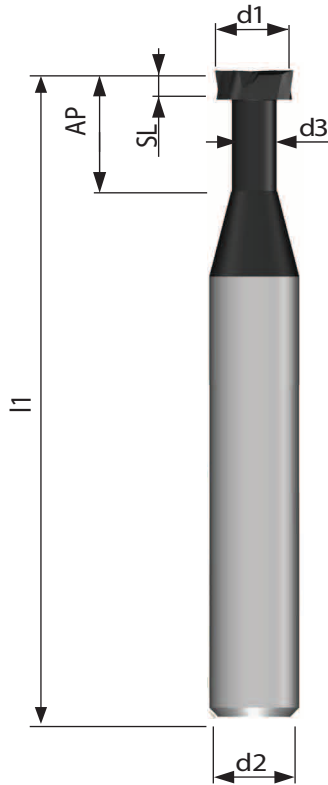
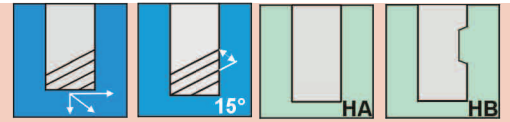
Ø D	H	Ø d	Ø d1	L	K°	Z	c x 45°	fz
16	4	10	6,7	60	45°	6	0,2	0,040
20	5	12	7	63	45°	8	0,2	0,040
22	6	12	8	63	45°	8	0,2	0,040
25	6,3	12	8	63	45°	8	0,2	0,043
28	7,5	16	8,5	80	45°	10	0,2	0,043
32	8	16	13,0	80	45°	10	0,2	0,045
38	10	16	15,0	80	45°	10	0,2	0,045
16	6,3	10	6	60	60°	6	0,2	0,040
20	8	12	7,8	63	60°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

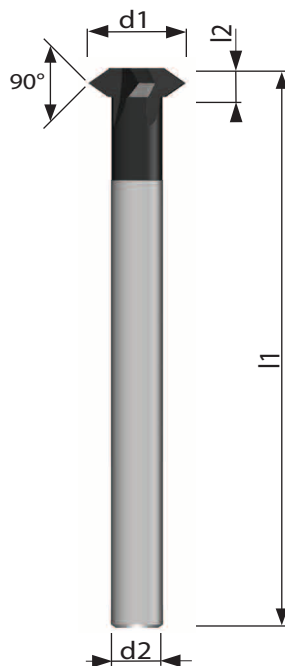
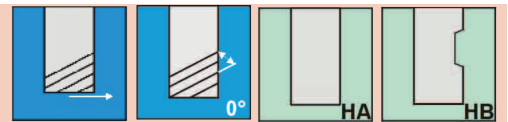
Orderexample: 1093.025.6,0-1,0-HA

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

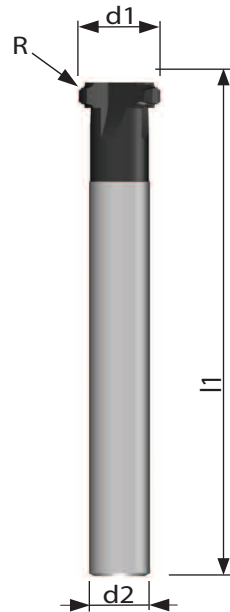
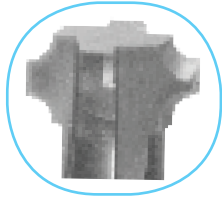
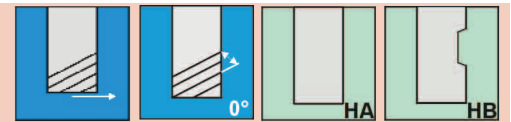
Ø d1	Ø d2	Ø d3	l1	l2	AP	Z	fz
2,0	6	1,25	100	1,2	8	4	0,010
3,0	6	2,05	100	1,8	8	4	0,010
4,0	6	1,95	100	2	10	4	0,010
6,0	6	4,0	100	2	15	4	0,010
8,0	6	-	100	2	-	4	0,012
10,0	6	-	100	4	-	4	0,014
12,0	6	-	100	4	-	4	0,015
16,0	10	-	100	5	-	4	0,016

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	Ø d2	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.

