

MingHong

# Product Manual



Mail: [Alexey.fang@yandex.ru](mailto:Alexey.fang@yandex.ru) | TEL /+86 180 5879 6040  
Zhejiang Minghong Precision Technology Co., Ltd

## Minghong Precision Technology

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Serve every customer with heart and soul

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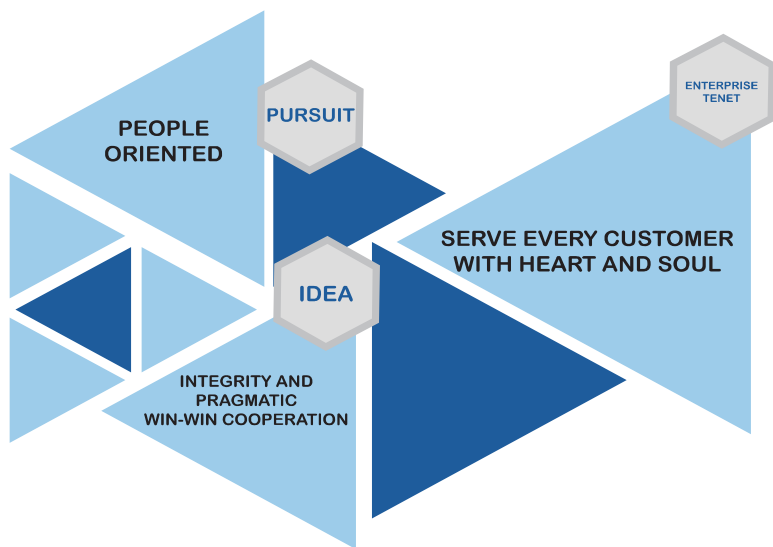
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Established in 2012, Zhejiang Minghong Precision Technology Co., Ltd is a high-tech enterprise integrating independent R&D, production and sales of high precision cutting tools, headquartered in Yuhang District, Hangzhou City, Zhejiang Province, PRC. Our company is committed to the advancement and development of industry technology, providing global customers with integrated solutions for precision cutting tools. Our products are widely used in the processing and manufacturing fields such as 3C consumer electronics, molds, graphite, automobiles, medical devices and so on.

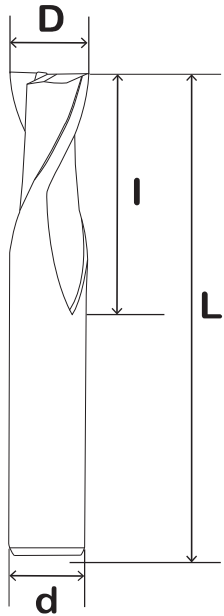
Our customers spread all over China, Korea, Japan, Russia and other countries and regions. We are making every effort to build a modern enterprise that is focused, professional and dedicated.

The company staff adhere to the tenet of strict requirements and innovation, keep every commitment, focus on every detail, keep improving and produce excellent products, winning the praise of many customers.

# Russian standard straight shank keyway milling cutter



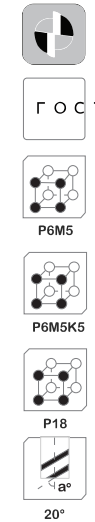
D	d	l	L	Z
2	2	4	36	2
2	4	4	36	2
2	4	7	39	2
2	2	9	36	2
3	3	5	37	2
3	4	5	37	2
3	4	8	40	2
4	4	7	39	2
4	4	11	43	2
5	5	8	42	2
5	5	13	47	2
6	6	8	52	2
6	6	13	57	2
7	8	10	54	2
7	8	16	60	2
8	8	11	55	2
8	8	19	63	2
9	10	11	61	2
10	10	13	63	2
10	10	22	72	2
11	12	22	79	2
12	12	16	73	2
12	12	26	83	2
14	14	16	73	2
14	14	26	83	2
16	16	19	79	2
16	16	32	92	2
18	18	19	79	2
18	18	32	92	2
20	20	22	88	2
20	20	38	104	2
22	20	22	88	2
22	20	38	104	2
24	25	26	102	2
24	25	45	121	2
25	25	26	102	2
25	25	45	121	2



Available:



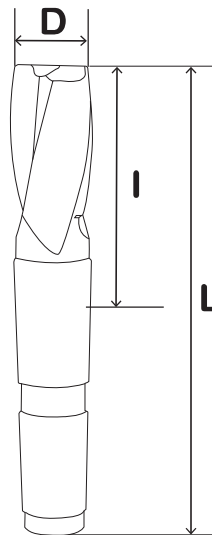
# Russian standard taper shank keyway milling cutter



D	l	L	KM	Z
8	11	81	KM1	2
10	13	83	KM1	2
12	16	86	KM1	2
12	16	101	KM2	2
14	16	86	KM1	2
14	16	101	KM2	2
16	19	104	KM2	2
18	19	104	KM2	2
20	22	107	KM2	2
20	22	124	KM3	2
22	22	107	KM2	2
22	22	124	KM3	2
24	26	128	KM3	2
25	26	128	KM3	2
28	26	128	KM3	2
30	32	134	KM3	2
32	32	134	KM3	2
32	32	157	KM4	2
36	32	134	KM3	2
36	32	157	KM4	2
40	38	163	KM4	2
45	38	163	KM4	2
50	43	168	KM4	2

## Lengthened

8	19	89	KM1	2
10	22	92	KM1	2
12	26	96	KM1	2
12	26	111	KM2	2
14	26	111	KM2	2
16	32	117	KM2	2
18	32	117	KM2	2
20	38	123	KM2	2
22	38	123	KM2	2
24	45	147	KM3	2
25	45	147	KM3	2
28	45	147	KM3	2
30	53	155	KM3	2
32	53	155	KM3	2
32	53	178	KM4	2
36	53	178	KM4	2
40	63	188	KM4	2
45	63	188	KM4	2
50	75	200	KM4	2



Available:



# Russian standard end milling cutter



ГОСТ



P6M5



P6M5K5

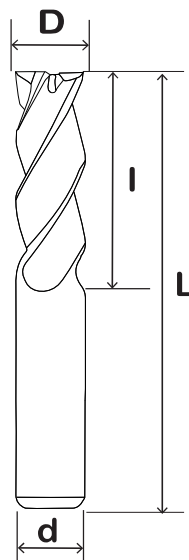


P18



30° 35° 45°

D	d	l	L	Z
2	2	7	39	3&4
2	4	7	39	3&4
2.5	2.5	8	40	3&4
2.5	4	8	40	3&4
3	3	8	40	3&4
3	4	8	40	3&4
4	4	11	43	3&4
5	5	13	47	3&4
5	6	13	57	3&4
6	6	13	57	3&4
7	7	16	60	3&4
7	8	16	60	3&4
8	8	19	63	3&4
9	9	19	69	3&4
9	10	19	69	3&4
10	10	22	72	3&4
11	12	22	79	3&4
12	12	26	83	3&4
13	12	26	83	3&4
14	12	26	83	3&4
14	14	26	83	3&4
16	16	32	92	3&5
18	16	32	92	3&5
18	18	32	92	3&5
20	20	38	104	3&6
22	20	38	104	3&6
24	20	45	121	3&6
24	25	45	121	3&6
25	20	45	121	3&6
25	25	45	121	3&6
28	20	45	121	3&6



Available:



Spherical blade



# Russian standard lengthened end milling cutter



ГОСТ



P6M5



P6M5K5

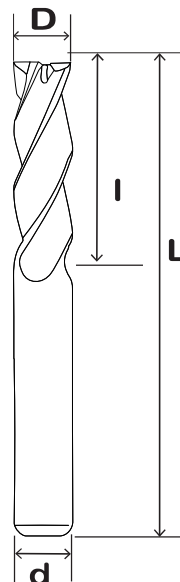


P18



30° 35° 45°

D	d	l	L	Z
2.5	4	12	44	3&4
3	4	12	44	3&4
4	4	19	51	3&4
4	6	19	51	3&4
5	5	24	68	3&4
5	6	24	68	3&4
6	6	24	68	3&4
7	8	30	74	3&4
8	8	38	82	3&4
9	10	38	88	3&4
10	10	45	95	3&4
10	10	63	100	3&4
11	12	45	102	3&4
12	12	53	110	3&4
14	12	53	110	3&4
14	14	53	110	3&4
16	16	63	123	3&4
18	16	63	123	3&4
18	18	63	123	3&4
20	20	75	141	3&4
22	20	75	141	3&6
24	20	90	166	3&6
24	25	90	166	3&6
25	20	90	166	3&6
25	25	90	166	3&6
28	20	90	166	3&6
28	25	90	166	3&6



Available:



available

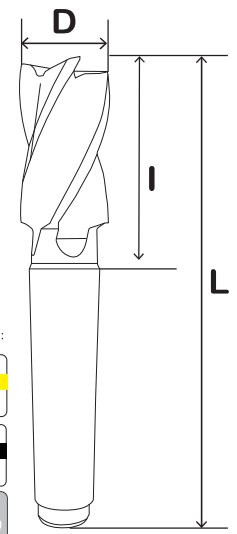


# Russian standard taper shank end milling cutter



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D	d	l	KM	Z
10	22	92	KM1	3&4
12	26	96	KM1	3&4
12	26	111	KM2	3&4
14	26	96	KM1	3&4
14	26	111	KM2	3&4
16	32	117	KM2	3&4
18	32	117	KM2	3&4
20	38	123	KM2	3&6
20	38	140	KM3	3&6
22	38	123	KM2	3&6
22	38	140	KM3	3&6
24	45	147	KM3	3&6
25	45	147	KM3	3&6
28	45	147	KM3	3&6
30	53	155	KM3	3&6
30	53	178	KM4	3&6
32	53	155	KM3	3&6
32	53	178	KM4	3&6
36	53	155	KM3	3&6
36	53	178	KM4	3&6
40	63	188	KM4	3&6
40	63	221	KM5	3&6
42	63	188	KM4	3&6
45	63	188	KM4	3&6
45	63	221	KM5	3&6
48	75	200	KM4	3&6
50	75	200	KM4	3&8
50	75	233	KM5	3&8
56	75	200	KM4	3&8
56	75	233	KM5	3&8
60	90	248	KM5	3&8
63	90	248	KM5	3&8



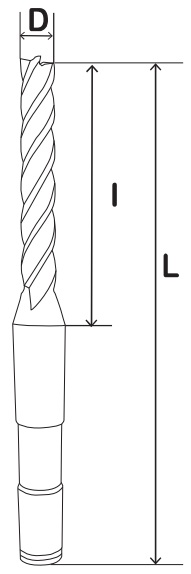
- Available:
- - 
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# Russian standard taper shank lengthened end milling cutter



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D	l	L	KM	Z
10	45	115	KM1	3&4
12	53	123	KM1	3&4
12	53	138	KM2	3&4
14	53	138	KM2	3&4
14	100	185	KM2	3&4
16	63	148	KM2	3&4
18	63	148	KM2	3&4
20	75	160	KM2	3&6
20	100	200	KM3	3&6
20	120	215	KM3	3&6
20	150	250	KM3	3&6
20	200	300	KM3	3&6
22	75	177	KM3	3&6
24	90	192	KM3	3&6
25	90	192	KM3	3&6
25	120	215	KM3	3&6
25	150	250	KM3	3&6
28	90	192	KM3	3&6
30	106	208	KM3	3&6
30	140	242	KM3	3&6
32	106	208	KM3	3&6
32	106	231	KM4	3&6
32	140	350	KM3	3&6
32	200	325	KM4	3&6
35	106	231	KM4	3&6
36	106	231	KM4	3&6
36	200	320	KM4	3&6
40	125	250	KM4	3&6
40	125	283	KM5	3&6
40	200	320	KM4	3&6
45	125	250	KM4	3&6
45	125	283	KM5	3&6
50	150	278	KM4	3&8
50	150	308	KM5	3&8
50	200	320	KM4	3&8
56	150	278	KM4	3&8
56	150	308	KM5	3&8
60	180	338	KM5	3&8
63	180	338	KM5	3&8



- Available:
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# Straight shank milling cutter for aluminum

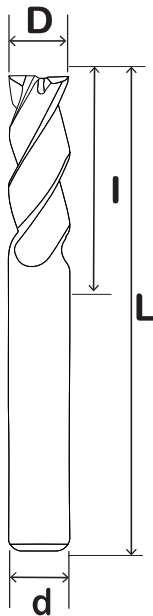
# Double-head end milling cutter

# Taper shank milling cutter for aluminum



45°

D	d	l	L	Z
2	6	7	51	2&3
2	6	10	54	2&3
3	3	8	36	2&3
3	6	8	52	2&3
3	6	12	56	2&3
4	4	11	43	2&3
4	6	11	55	2&3
4	6	19	63	2&3
5	5	13	47	2&3
5	6	13	57	2&3
5	6	24	68	2&3
6	6	13	57	2&3
6	6	16	52	2&3
6	6	24	68	2&3
8	8	19	59	2&3
8	8	38	78	2&3
8	10	19	69	2&3
8	10	38	88	2&3
10	10	22	72	2&3
10	10	45	95	2&3
12	12	26	83	2&3
12	12	53	110	2&3
15	12	26	83	2&3
15	12	53	110	2&3
16	16	32	92	2&3
16	16	63	123	2&3
18	16	32	92	2&3
18	16	63	123	2&3
20	20	38	104	2&3
20	20	75	141	2&3

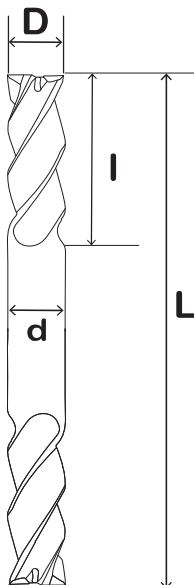


Available:



35°

D	d	l	L	Z
3	3	10	45	3&4
3	6	10	50	3&4
4	4	15	55	3&4
4	6	15	60	3&4
5	5	14	65	3&4
5	6	14	65	3&4
5	6	20	80	3&4
6	6	15	65	3&4
6	6	18	65	3&4
6	6	20	80	3&4
7	8	20	80	3&4
8	8	20	80	3&4
9	10	20	80	3&4
10	10	20	80	3&4
10	10	25	100	3&4
12	12	20	80	3&4
12	12	26	100	3&4

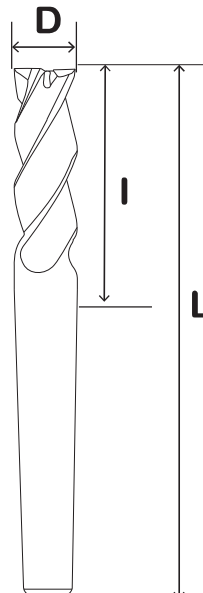


Available:



45°

D1	D2	L2	L1	Z
8	26	108	KM2	2&3
8	38	120	KM2	2&3
10	22	104	KM2	2&3
10	45	127	KM2	2&3
12	26	108	KM2	2&3
12	53	135	KM2	2&3
14	26	108	KM2	2&3
14	53	138	KM2	2&3
16	32	114	KM2	2&3
16	63	148	KM2	2&3
16	63	162	KM3	2&3
18	32	114	KM2	2&3
18	63	148	KM2	2&3
20	38	137	KM3	2&3
20	75	160	KM2	2&3
22	38	137	KM3	2&3
22	75	177	KM3	2&3
24	45	144	KM3	2&3
25	45	144	KM3	2&3
25	90	193	KM3	2&3
30	50	175	KM4	2&3
30	90	232	KM4	2&3
32	53	178	KM4	2&3
32	106	231	KM4	2&3
36	53	178	KM4	2&3
36	106	231	KM4	2&3
40	63	188	KM4	2&3
45	63	188	KM4	2&3
45	125	250	KM4	2&3
50	75	200	KM4	2&3
50	150	278	KM4	2&3



Available:



# German standard keyway milling cutter



DIN 327



HSS-M2

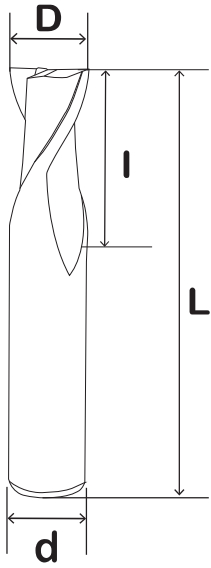


HSS-M35



30°

D	d	1	L	Z
1	6	3	46	2
1.5	6	4	48	2
2	6	4	48	2
2.5	6	5	49	2
3	6	5	49	2
4	6	7	51	2
5	6	8	52	2
6	6	8	52	2
7	10	10	60	2
8	10	11	61	2
9	10	13	63	2
10	10	13	63	2
11	12	16	73	2
12	12	16	73	2
13	12	16	73	2
14	12	16	73	2
15	12	16	73	2
16	16	19	79	2
17	16	19	79	2
18	16	19	79	2
19	16	19	79	2
20	20	22	88	2
21	20	22	88	2
22	20	22	88	2
23	20	22	88	2
24	25	26	102	2
25	25	26	102	2
26	25	26	102	2
27	25	26	102	2
28	25	26	102	2
30	25	26	102	2
32	32	32	112	2
34	32	32	112	2
36	32	32	112	2
40	40	38	130	2



Available:



TIN



TiAlN



Spherical blade

# German standard keyway lengthened milling cutter



DIN 327



HSS-M2

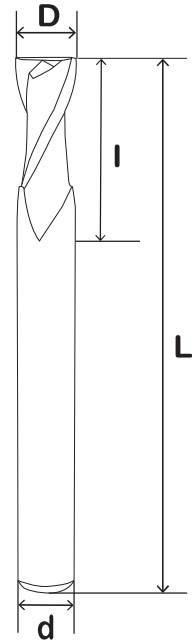


HSS-M35



30°

D	d	1	L	Z
1	6	5	52	2
2	6	7	54	2
3	6	8	56	2
4	6	11	63	2
5	6	13	68	2
6	6	13	68	2
7	10	16	80	2
8	10	19	88	2
9	10	19	88	2
10	10	22	95	2
11	12	26	110	2
12	12	26	110	2
13	12	26	110	2
14	12	26	110	2
15	12	26	110	2
16	16	32	123	2
17	16	32	123	2
18	16	32	123	2
19	16	32	123	2
20	20	38	141	2
21	20	38	141	2
22	20	38	141	2
23	20	38	141	2
24	25	45	166	2
25	25	45	166	2
26	25	45	166	2
28	25	45	166	2
30	25	45	166	2
32	32	53	186	2
36	32	53	186	2
40	40	63	216	2



Available:



TIN



TiAlN



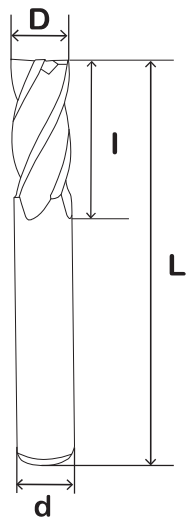
Spherical blade



# German standard end milling cutter



DIN 844



Available:

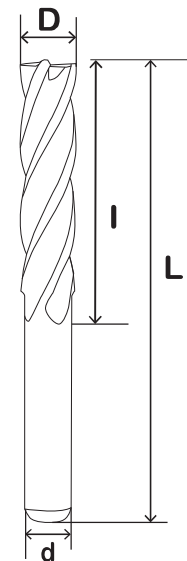


D	d	l	L	Z
1	6	5	49	3&4
1.5	6	7	51	3&4
2	6	7	51	3&4
2.5	6	8	52	3&4
3	6	8	52	3&4
3.5	6	11	55	3&4
4	6	11	55	3&4
4.5	6	13	57	3&4
5	6	13	57	3&4
5.5	6	13	57	3&4
6	6	13	57	3&4
6.5	10	16	66	3&4
7	8	19	63	3&4
7	10	16	66	3&4
7.5	10	19	69	3&4
8	8	19	63	3&4
8	10	19	69	3&4
8.5	10	19	69	3&4
9	10	22	72	3&4
9.5	10	22	72	3&4
10	10	22	72	3&4
11	12	26	83	3&4
12	12	26	83	3&4
13	12	26	83	3&4
14	12	26	83	3&4
15	12	26	83	3&4
16	16	32	92	3&4
17	16	32	92	3&4
18	16	32	92	3&4
19	16	32	92	3&4
20	20	38	104	3&6
21	20	38	104	3&6
22	20	38	104	3&6
23	20	38	104	3&6
24	25	45	121	3&6
25	25	45	121	3&6
26	25	45	121	3&6
27	25	45	121	3&6
28	25	45	121	3&6
29	25	45	121	3&6
30	25	45	121	3&6
31	32	53	133	3&6
32	32	53	133	3&6
34	32	53	133	3&6
36	32	53	133	3&6
40	40	63	155	3&6

# German standard lengthened end milling cutter



DIN 844



Available:



D	d	l	L	Z
1	6	8	52	3&4
2	6	10	54	3&4
3	6	12	56	3&4
4	6	19	63	3&4
5	6	24	68	3&4
6	6	24	68	3&4
7	10	30	80	3&4
8	8	38	82	3&4
8	10	38	88	3&4
9	10	38	88	3&4
10	10	45	95	3&4
11	12	53	110	3&4
12	12	53	110	3&4
13	12	53	110	3&4
14	12	53	110	3&4
15	12	53	110	3&4
16	16	63	123	3&4
17	16	63	123	3&4
18	16	63	123	3&4
19	16	63	123	3&4
20	20	75	141	3&6
21	20	75	141	3&6
22	20	75	141	3&6
23	20	75	141	3&6
24	25	90	166	3&6
25	25	90	166	3&6
26	25	90	166	3&6
27	25	90	166	3&6
28	25	90	166	3&6
30	25	90	166	3&6
31	32	106	186	3&6
32	32	106	186	3&6
34	32	106	186	3&6
36	32	106	186	3&6
40	40	125	217	3&6

# Wave edge end milling cutter



HSS-M2

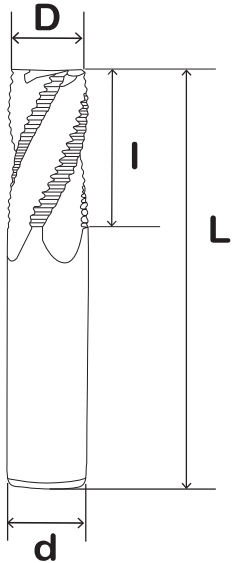


HSS-M35



30°

D	d	l	L	Z
6.0	6.0	13	57	3&4
8.0	8.0	19	63	3&4
8.0	10.0	19	69	3&4
10.0	10.0	22	72	3&4
12.0	12.0	26	83	3&4
14.0	12.0	26	83	3&4
16.0	16.0	32	92	3&4
18.0	16.0	32	92	3&4
20.0	20.0	38	104	3&6
22.0	20.0	38	104	3&6
24.0	25.0	45	121	3&6
25.0	25.0	45	121	3&6
28.0	25.0	45	121	3&6
30.0	25.0	45	121	3&6
32.0	32.0	53	133	3&6
36.0	32.0	53	133	3&6
40.0	40.0	63	155	3&6



Available:



# Wave edge lengthened end milling cutter



HSS-M2

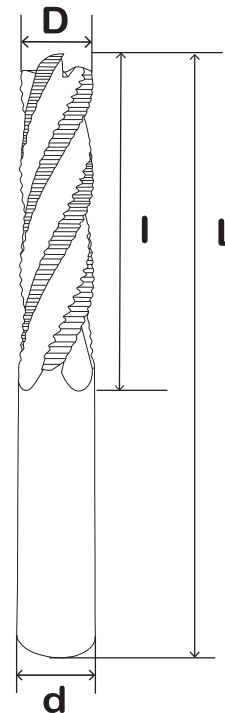


HSS-M35



30°

D1	D2	L2	L1	Z
6.0	6.0	24	68	3&4
8.0	8.0	38	82	3&4
8.0	10.0	38	88	3&4
10.0	10.0	45	95	3&4
12.0	12.0	53	110	3&4
14.0	12.0	53	110	3&4
16.0	16.0	63	123	3&4
18.0	16.0	63	123	3&4
20.0	20.0	75	141	3&6
22.0	20.0	75	141	3&6
24.0	25.0	90	166	3&6
25.0	25.0	90	166	3&6
28.0	25.0	90	166	3&6
30.0	25.0	90	166	3&6
32.0	32.0	106	186	3&6
36.0	32.0	106	186	3&6
40.0	40.0	125	217	3&6



Available:



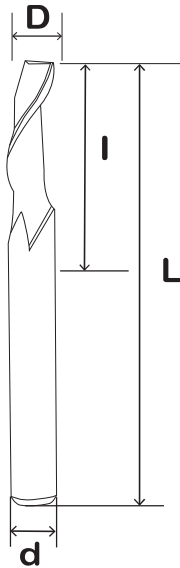
# Single edge profiling milling cutter

# Full grinding countersunk head cutter

# Full grinding chamfering cutter



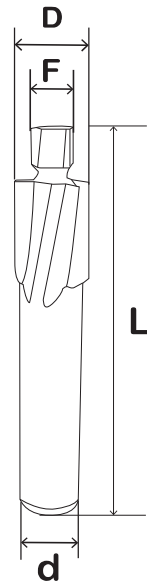
D	d	l	颈长	L
3	6	10		60
4	6	10		60
5	6	12		60
6	6	12		60
3	8	12		60
4	8	12		60
5	8	14		60
6	8	14		60
7	8	14		60
8	8	14		60
4	8	14	35	80
5	8	14	35	80
6	8	14	35	80
7	8	14	35	80
8	8	14		80
8	8	20		80
4	8	16	45	100
5	8	16	45	100
6	8	16	45	100
8	8	16		100
8	8	30		100
10	10	30		100
12	12	30		100
8	8	30		120
10	10	30		120
12	12	30		120



Available:



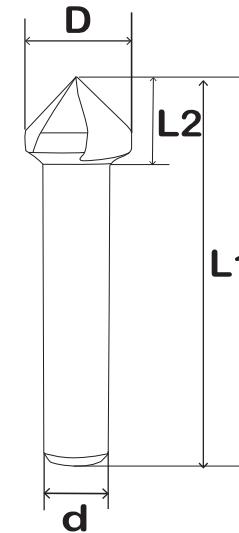
F	D	d	L
3.2	6.5	6	51
4.2	8	6	51
5.2	9.5	8	51
6.2	11	10	58
8.2	14	12	67
10.3	17.5	12	74
12.4	20	12	83
14.4	24	12	90
16.5	26	12	93



Available:



D	d	l	L	Z
6.3	6	8	50	1&3
8.4	6	10	50	1&3
10.4	8	11	50	1&3
12.4	8	12	56	1&3
16.5	10	15	60	1&3
20.5	10	18	63	1&3
25	10	20	67	1&3
28	12	20	67	1&3
31	12	22	71	1&3
35	12	25	74	1&3
40	12	28	82	1&3
45	12	35	92	1&3
50	16	34	100	1&3
60	20	38	115	1&3

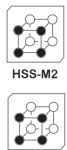


Available:

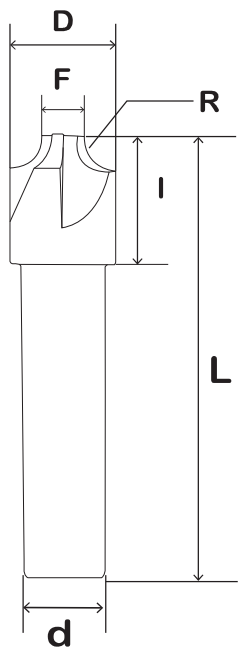


# Full grinding internal R-type cutter

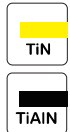
# T-type milling cutter



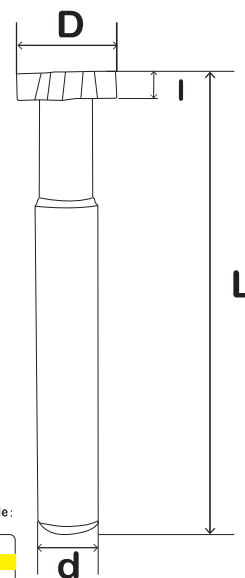
R	F	D	d	l	L
R1	6	8	8	18	68
R1.5	6	9	9	18	68
R2	6	10	10	20	70
R2.5	6	11	10	20	70
R3	6	12	10	20	70
R3.5	6	13	12	22	76
R4	6	14	12	22	76
R4.5	6	15	12	24	76
R5	6	16	16	24	89
R5.5	8	19	16	28	89
R6	8	20	16	28	89
R7	8	22	16	28	89
R8	8	24	20	30	89
R9	8	26	20	30	89
R10	8	28	20	30	89
R12	8	32	20	30	89
R12.5	8	33	20	32	89
R15	8	40	20	39	110
R20	8	50	20	44	115



Available:



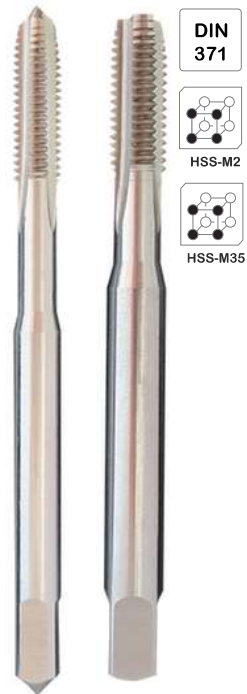
D	d	l	L	Z
8	6	1-8	60	6
10	6	1-8	60	6
12	8	1-10	60	6
14	8	1-10	60	6
16	10	2-12	60	6
18	12	3-12	74	6
20	12	3-12	90	6
22	12	3-12	90	6
25	12	3-12	90	8
28	12	3-12	90	8
30	16	3-12	90	8
32	16	3-12	90	8
35	16	3-12	90	8
40	20	3-12	108	8
42	20	3-12	112	8
45	20	3-12	112	8
50	20	3-12	124	10



Available:

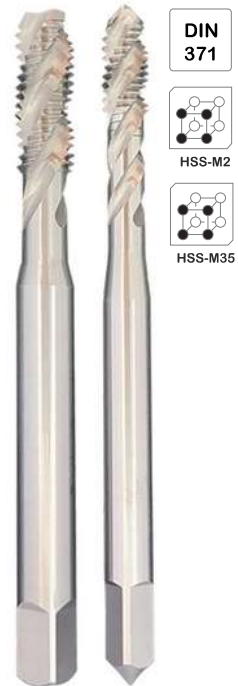


# DIN371 Straight tap



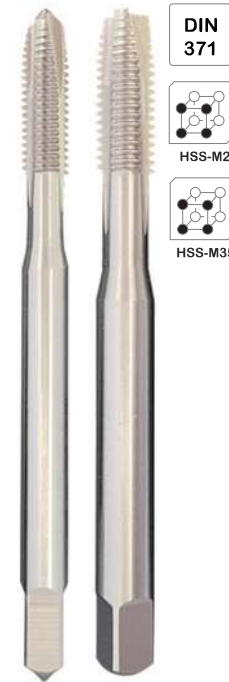
DIN 371	Specs	L	I	D
HSS-M2	M2x0.4	45	8	2.8
	M2.2x0.45	45	9	2.8
	M2.3x0.4	45	9	2.8
HSS-M35	M2.5x0,45	50	9	2.8
	M2.6x0.45	50	9	2.8
	M3x0,5	56	11	3.5
	M3.5x0.6	56	13	4
	M4x0.7	63	13	4.5
	M5x0.8	70	16	6
	M6x1	80	19	6
	M7x1	80	19	7
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10

# DIN371 helical tap

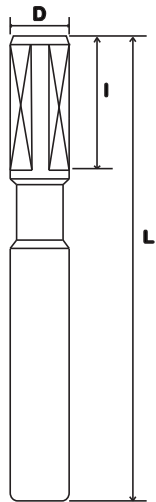


DIN 371	Specs	L	I	D
HSS-M2	M2x0.4	45	8	2.8
	M2.2x0.45	45	9	2.8
	M2.3x0.4	45	9	2.8
HSS-M35	M2.5x0,45	50	9	2.8
	M2.6x0.45	50	9	2.8
	M3x0,5	56	11	3.5
	M3.5x0.6	56	13	4
	M4x0.7	63	13	4.5
	M5x0.8	70	16	6
	M6x1	80	19	6
	M7x1	80	19	7
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10

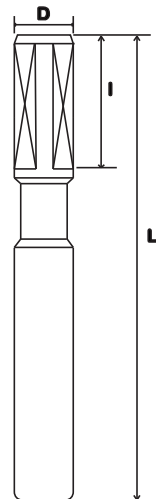
# DIN371 spiral point tap



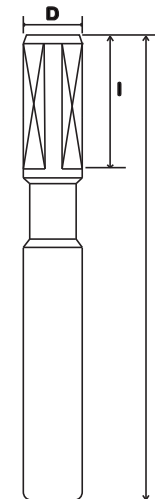
DIN 371	Specs	L	I	D
HSS-M2	M2x0.4	45	8	2.8
	M2.2x0.45	45	9	2.8
	M2.3x0.4	45	9	2.8
HSS-M35	M2.5x0,45	50	9	2.8
	M2.6x0.45	50	9	2.8
	M3x0,5	56	11	3.5
	M3.5x0.6	56	13	4
	M4x0.7	63	13	4.5
	M5x0.8	70	16	6
	M6x1	80	19	6
	M7x1	80	19	7
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10
	M8x1.25	90	22	8
	M9x1.25	90	22	9
	M10x1.5	100	24	10



Available:  
 TiN  
 TiAlN



Available:  
 TiN  
 TiAlN



Available:  
 TiN  
 TiAlN

# DIN376 helical tap

# DIN376 spiral point tap



DIN 376

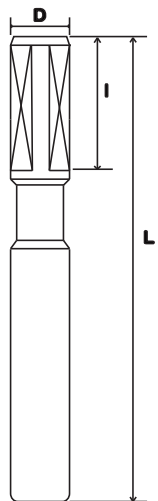


HSS-M2



HSS-M35

Specs	L	I	D
M3x0.5	56	11	2.2
M4x0.7	63	13	2.8
M5x0.8	70	16	3.5
M6;x1	80	19	4.5
M7x1	80	19	5.5
M8x1.25	90	22	6
M9x1.25	90	22	7
M10x1.5	100	24	7
M11x1.5	100	24	8
M12x1.75	110	29	9
M14x2	110	30	11
M16x2	110	32	12
M18x2.5	125	34	14
M20x2.5	140	34	16
M22x2.5	140	34	18
M24x3	160	38	18
M27x3	160	38	20
M30x3.5	180	45	22
M33x3.5	180	50	25
M36x4	200	56	28
M39x4	200	60	32
M42x4.5	200	60	32
M45x4.5	220	65	36
M48x5	250	70	36
M52x5	250	70	40



Available:

TiN

TiAlN



DIN 376

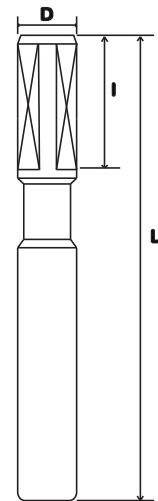


HSS-M2



HSS-M35

Specs	L	I	D
M3x0.5	56	11	2.2
M4x0.7	63	13	2.8
M5x0.8	70	16	3.5
M6x1	80	19	4.5
M7x1	80	19	5.5
M8x1.25	90	22	6
M9x1.25	90	22	7
M10x1.5	100	24	7
M11x1.5	100	24	8
M12x1.75	110	29	9
M14x2	110	30	11
M16x2	110	32	12
M18x2.5	125	34	14
M20x2.5	140	34	16
M22x2.5	140	34	18
M24x3	160	38	18
M27x3	160	38	20
M30x3.5	180	45	22
M33x3.5	180	50	25
M36x4	200	56	28
M39x4	200	60	32
M42x4.5	200	60	32
M45x4.5	220	65	36
M48x5	250	70	36
M52x5	250	70	40



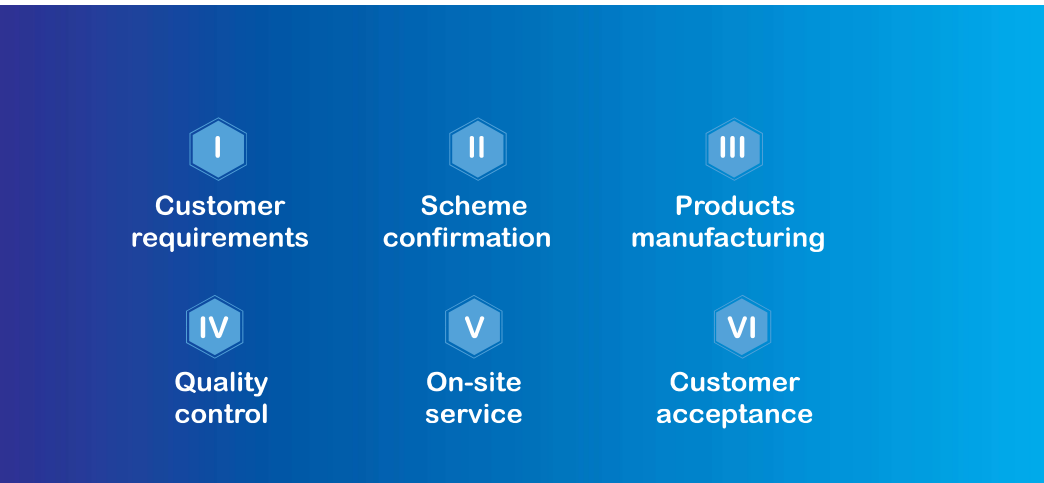
Available:

TiN

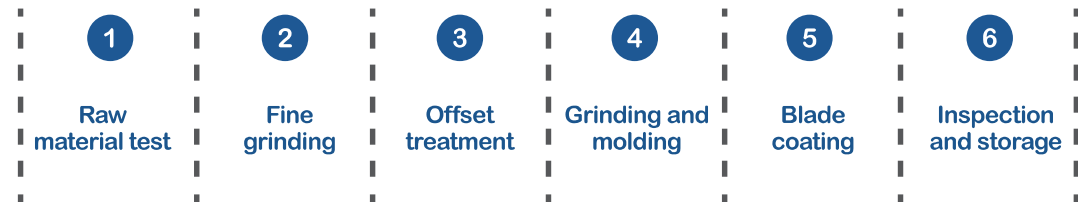
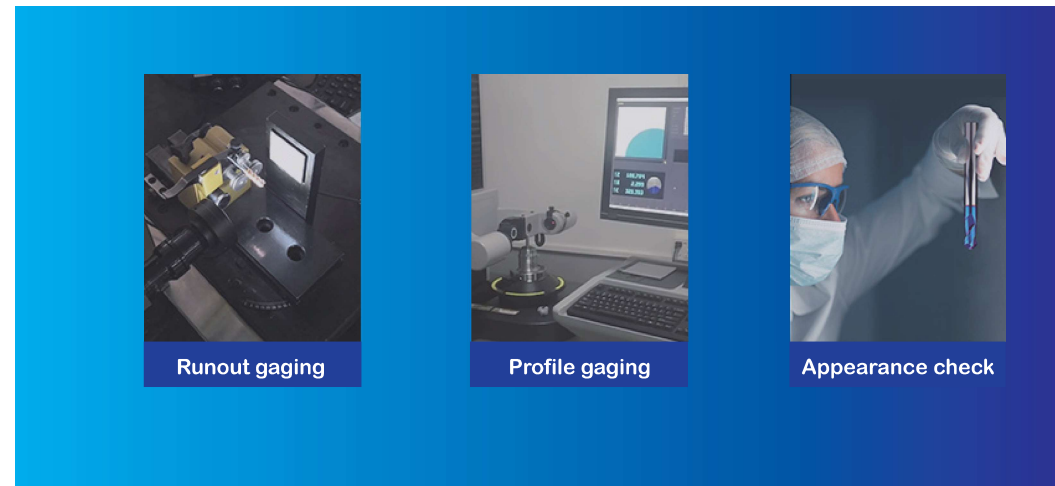
TiAlN

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