

MingHong

Product Manual



Zhejiang Minghong Precision Technology Co., Ltd

COMPANY PROFILE

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 Binjiang District, Hangzhou City, Zhejiang Province, PRC. The company is committed to the advancement and development of industry technology and has more than 10 years of experience in the production of high-precision cutting tools. In 2022, we officially launched the factory direct sales business to provide global customers with overall 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 and professional enterprise.

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.



High precision, quality guaranteed



Factory direct sales



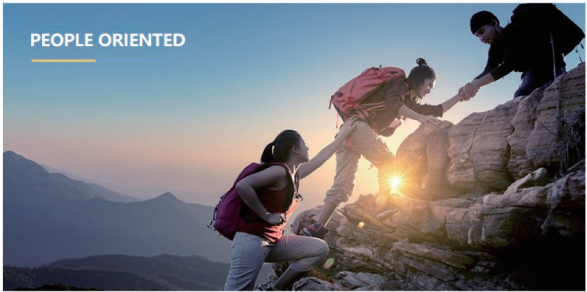
More than 10 years experience



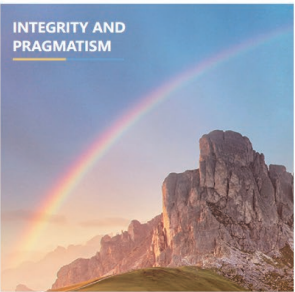
The registered capital is 10 million CNY

CORE VALUES

PEOPLE ORIENTED



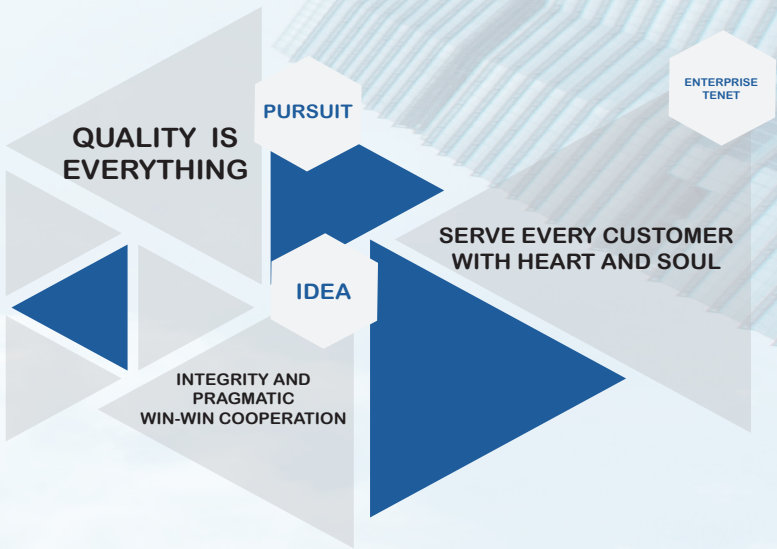
INTEGRITY AND PRAGMATISM



WIN-WIN COOPERATION



KEEP IMPROVING



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HSS GOST straight shank end mills 2 flutes



GOCT



P6M5



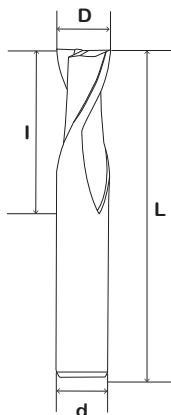
P6M5K5



P18



20°



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

Available:



TiN



TiAlN



Spherical blade

HSS GOST taper shank end mills 2 flutes



FOCT



P6M5



P6M5K5



P18



20°

Art. Number	D	I	L	KM	Z
8*11*81*KM1*2F	8	11	81	KM1	2
10*13*83*KM1*2F	10	13	83	KM1	2
12*16*86*KM1*2F	12	16	86	KM1	2
12*16*101*KM2*2F	12	16	101	KM2	2
14*16*86*KM1*2F	14	16	86	KM1	2
14*16*101*KM2*2F	14	16	101	KM2	2
16*19*104*KM2*2F	16	19	104	KM2	2
18*19*104*KM2*2F	18	19	104	KM2	2
20*22*107*KM2*2F	20	22	107	KM2	2
20*22*124*KM3*2F	20	22	124	KM3	2
22*22*107*KM2*2F	22	22	107	KM2	2
22*22*124*KM3*2F	22	22	124	KM3	2
24*26*128*KM3*2F	24	26	128	KM3	2
25*26*128*KM3*2F	25	26	128	KM3	2
28*26*128*KM3*2F	28	26	128	KM3	2
30*32*134*KM3*2F	30	32	134	KM3	2
32*32*134*KM3*2F	32	32	134	KM3	2
32*32*157*KM4*2F	32	32	157	KM4	2
36*32*134*KM3*2F	36	32	134	KM3	2
36*32*157*KM4*2F	36	32	157	KM4	2
40*38*163*KM4*2F	40	38	163	KM4	2
45*38*163*KM4*2F	45	38	163	KM4	2
50*43*168*KM4*2F	50	43	168	KM4	2
8*19*89*KM1*2F	8	19	89	KM1	2
10*22*92*KM1*2F	10	22	92	KM1	2
12*26*96*KM1*2F	12	26	96	KM1	2
12*26*111*KM2*2F	12	26	111	KM2	2
14*26*111*KM2*2F	14	26	111	KM2	2
16*32*117*KM2*2F	16	32	117	KM2	2
18*32*117*KM2*2F	18	32	117	KM2	2
20*38*123*KM2*2F	20	38	123	KM2	2
22*38*123*KM2*2F	22	38	123	KM2	2
24*45*147*KM3*2F	24	45	147	KM3	2
25*45*147*KM3*2F	25	45	147	KM3	2
28*45*147*KM3*2F	28	45	147	KM3	2
30*53*155*KM3*2F	30	53	155	KM3	2
32*53*155*KM3*2F	32	53	155	KM3	2
32*53*178*KM4*2F	32	53	178	KM4	2
36*53*178*KM4*2F	36	53	178	KM4	2
40*63*188*KM4*2F	40	63	188	KM4	2
45*63*188*KM4*2F	45	63	188	KM4	2
50*75*200*KM4*2F	50	75	200	KM4	2

Available:



Spherical blade

HSS GOST end mills 3-6 flutes



GOST



P6M5



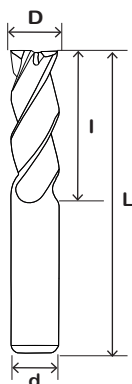
P6M5K5



P18



30° 35° 45°



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

Available:



Spherical Blade



HSS GOST lengthened end mills 3-6 flutes



ГОСТ



P6M5



P6M5K5

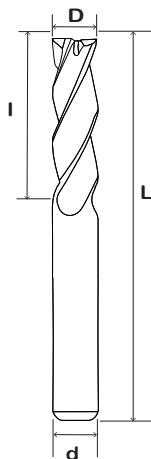


P18



30° 35° 45°

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



Available:



TiN



TiAlN



available



HSS GOST taper shank end mills 3-6 flutes



P6M5



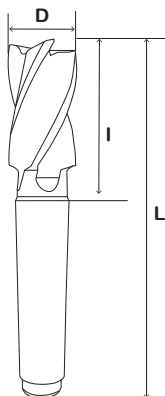
P6M5K5



P18



30° 35° 45°



Available:



TiN



TiAlN



Spherical blade

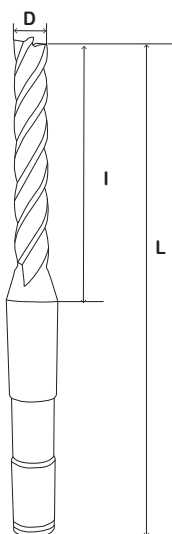


Art. Number	D	I	L	KM	Z
10*22*92*KM1	10	22	92	KM1	3&4
12*26*96*KM1	12	26	96	KM1	3&4
12*26*111*KM2	12	26	111	KM2	3&4
14*26*96*KM1	14	26	96	KM1	3&4
14*26*111*KM2	14	26	111	KM2	3&4
16*32*117*KM2	16	32	117	KM2	3&4
18*32*117*KM2	18	32	117	KM2	3&4
20*38*123*KM2	20	38	123	KM2	3&6
20*38*140*KM3	20	38	140	KM3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

HSS GOST taper shank lengthened end mill 3-6 flutes



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



Available:



HSS DIN327 end mills 2 flutes



**DIN
327**



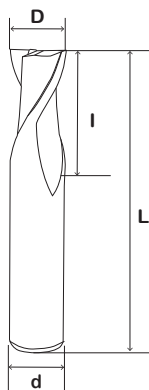
HSS-M2



HSS-M35



30°



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

Available:



Spherical
blade

HSS DIN327 lengthened end mills 2 flutes



**DIN
327**



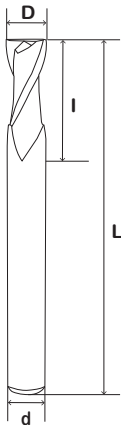
HSS-M2



HSS-M35



30°



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

Available:



TiN



TiAlN



Spherical
blade

HSS DIN844 end mills 3-6 flutes



**DIN
844**



HSS-M2

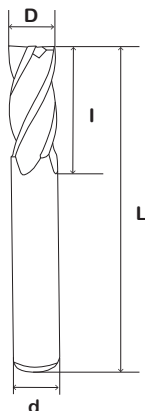


HSS-M35



30°

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



Available:



TiN



TiAlN



Spherical
blade



HSS DIN844 lengthened end mills 3-6 flutes



**DIN
844**



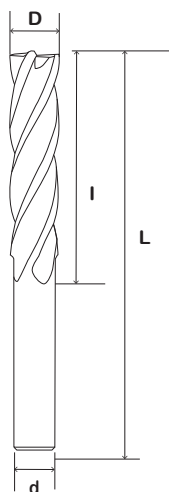
HSS-M2



HSS-M35



30°



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

Available:



Spherical
blade



HSS Straight shank end mills for aluminum 2-3 flutes



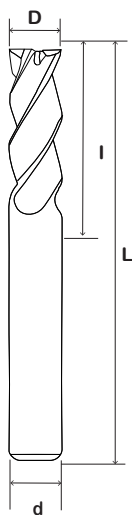
HSS-M2



HSS-M35



45°



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

Available:



TiN



TiAlN



Spherical blade



HSS Taper shank end mills for aluminum 2-3 flutes



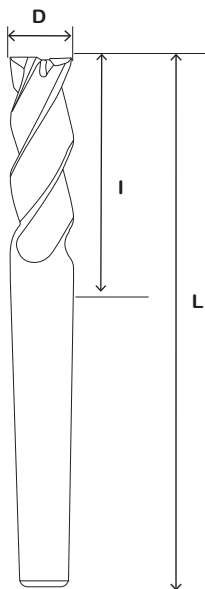
HSS-M2



HSS-M35



45°



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

Available :



Spherical blade



HSS Double-head end mills 3-4 flutes



HSS-M2

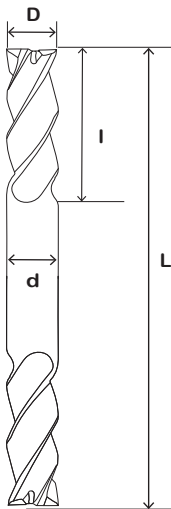


HSS-M35



35°

Art. Number	D	d	l	L	Z
3*3*10*45	3	3	10	45	3&4
3*6*10*50	3	6	10	50	3&4
4*4*15*55	4	4	15	55	3&4
4*6*15*60	4	6	15	60	3&4
4*6*18*75	4	6	18	75	3&4
5*5*14*65	5	5	14	65	3&4
5*6*14*65	5	6	14	65	3&4
5*6*20*80	5	6	20	80	3&4
6*6*15*65	6	6	15	65	3&4
6*6*18*65	6	6	18	65	3&4
6*6*20*80	6	6	20	80	3&4
7*8*20*80	7	8	20	80	3&4
8*8*20*80	8	8	20	80	3&4
9*10*20*80	9	10	20	80	3&4
10*10*20*80	10	10	20	80	3&4
10*10*25*100	10	10	25	100	3&4
12*12*20*80	12	12	20	80	3&4
12*12*26*100	12	12	26	100	3&4



Available:



TiN



TiAlN



Spherical
Blade



HSS Roughing end mills 3-4 flutes



HSS-M2

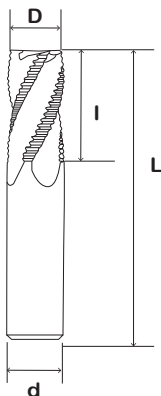


HSS-M35



30°

Art. Number	D	d	l	L	Z
6*6*13*57	6	6	13	57	3&4
8*8*19*63	8	8	19	63	3&4
8*10*19*69	8	10	19	69	3&4
10*10*22*72	10	10	22	72	3&4
12*12*26*83	12	12	26	83	3&4
14*12*26*83	14	12	26	83	3&4
16*16*32*92	16	16	32	92	3&4
18*16*32*92	18	16	32	92	3&4
20*20*38*104	20	20	38	104	3&6
22*20*38*104	22	20	38	104	3&6
24*25*45*121	24	25	45	121	3&6
25*25*45*121	25	25	45	121	3&6
28*25*45*121	28	25	45	121	3&6
30*25*45*121	30	25	45	121	3&6
32*32*53*133	32	32	53	133	3&6
36*32*53*133	36	32	53	133	3&6
40*40*63*155	40	40	63	155	3&6



Available:



TiN



TiAlN



HSS Roughing lengthened end mills 3-4 flutes



HSS-M2

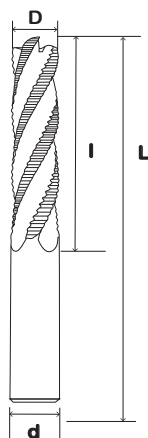


HSS-M35



30°

Art. Number	D	d	l	L	Z
6*6*24*68	6	6	24	68	3&4
8*8*38*82	8	8	38	82	3&4
8*10*38*88	8	10	38	88	3&4
10*10*45*95	10	10	45	95	3&4
12*12*53*110	12	12	53	110	3&4
14*12*53*110	14	12	53	110	3&4
16*16*63*123	16	16	63	123	3&4
18*16*63*123	18	16	63	123	3&4
20*20*75*141	20	20	75	141	3&6
22*20*75*141	22	20	75	141	3&6
24*25*90*166	24	25	90	166	3&6
25*25*90*166	25	25	90	166	3&6
28*25*90*166	28	25	90	166	3&6
30*25*90*166	30	25	90	166	3&6
32*32*106*186	32	32	106	186	3&6
36*32*106*186	36	32	106	186	3&6
40*40*125*217	40	40	125	217	3&6



Available :



TiN



TiAlN





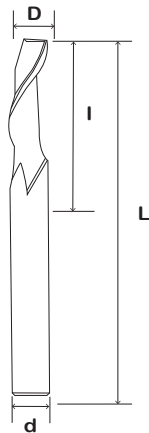
HSS-M2



HSS-M35



35°



Art. Number	D	d	I	M	L
3*6*10*-*60	3	6	10	-	60
4*6*10*-*60	4	6	10	-	60
5*6*12*-*60	5	6	12	-	60
6*6*12*-*60	6	6	12	-	60
3*8*12*-*60	3	8	12	-	60
4*8*12*-*60	4	8	12	-	60
5*8*14*-*60	5	8	14	-	60
6*8*14*-*60	6	8	14	-	60
7*8*14*-*60	7	8	14	-	60
8*8*14*-*60	8	8	14	-	60
4*8*14*35*80	4	8	14	35	80
5*8*14*35*80	5	8	14	35	80
6*8*14*35*80	6	8	14	35	80
7*8*14*35*80	7	8	14	35	80
8*8*14*-*80	8	8	14	-	80
8*8*20*-*80	8	8	20	-	80
4*8*16*45*100	4	8	16	45	100
5*8*16*45*100	5	8	16	45	100
6*8*16*45*100	6	8	16	45	100
8*8*16*-*100	8	8	16	-	100
8*8*30*-*100	8	8	30	-	100
10*10*30*-*100	10	10	30	-	100
12*12*30*-*100	12	12	30	-	100
8*8*30*-*120	8	8	30	-	120
10*10*30*-*120	10	10	30	-	120
12*12*30*-*120	12	12	30	-	120

Available:



HSS Countersunk head cutters



HSS-M2

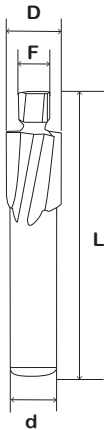


HSS-M35



30°

Art. Number	F	D	d	L
3.2*6.5*6*51	3.2	6.5	6	51
4.2*8*6*51	4.2	8	6	51
5.2*9.5*8*51	5.2	9.5	8	51
6.2*11*10*58	6.2	11	10	58
8.2*14*12*67	8.2	14	12	67
10.3*17.5*12*74	10.3	17.5	12	74
12.4*20*12*83	12.4	20	12	83
14.4*24*12*90	14.4	24	12	90
16.5*26*12*93	16.5	26	12	93
28*12*3-12*90	28	12	3-12	90
30*16*3-12*90	30	16	3-12	90
32*16*3-12*90	32	16	3-12	90
35*16*3-12*90	35	16	3-12	90
40*20*3-12*108	40	20	3-12	108
42*20*3-12*112	42	20	3-12	112
45*20*3-12*112	45	20	3-12	112
50*20*3-12*124	50	20	3-12	124



Available:





HSS-M2



HSS-M35

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



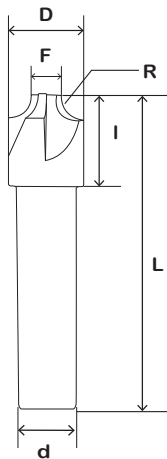
Available:



HSS Internal R-type cutters



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



Available :



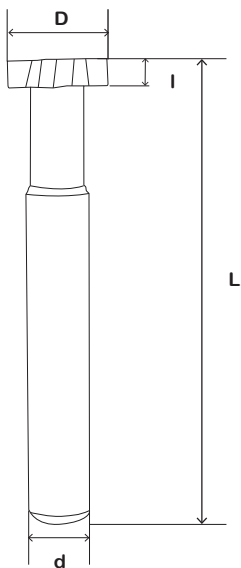


HSS-M2



HSS-M35

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



Available:



HSS DIN371 Straight taps



**DIN
371**

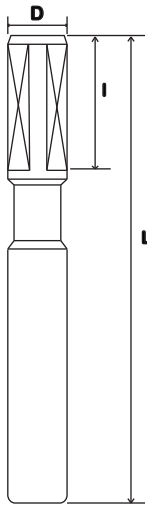


HSS-M2



HSS-M35

Art. Number	Specs	I	L	D
M1.4*0.3*7*40*2.5	M1.4*0.3	7	40	2.5
M1.6*0.35*8*40*2.5	M1.6*0.35	8	40	2.5
M1.7*0.35*8*40*2.5	M1.7*0.35	8	40	2.5
M1.8*0.35*8*40*2.5	M1.8*0.35	8	40	2.5
M2*0.4*8*45*2.8	M2*0.4	8	45	2.8
M2.2*0.45*9*45*2.8	M2.2*0.45	9	45	2.8
M2.3*0.4*9*45*2.8	M2.3*0.4	9	45	2.8
M2.5*0.45*9*50*2.8	M2.5*0.45	9	50	2.8
M2.6*0.45*9*50*2.8	M2.6*0.45	9	50	2.8
M3*0.5*11*56*3.5	M3*0.5	11	56	3.5
M3.5*0.6*13*56*4	M3.5*0.6	13	56	4
M4*0.7*13*63*4.5	M4*0.7	13	63	4.5
M5*0.8*16*70*6	M5*0.8	16	70	6
M6*1*19*80*6	M6*1	19	80	6
M7*1*19*80*7	M7*1	19	80	7
M8*1.25*22*90*8	M8*1.25	22	90	8
M9*1.25*22*90*9	M9*1.25	22	90	9
M10*1.5*24*100*10	M10*1.5	24	100	10



Available:





**DIN
371**

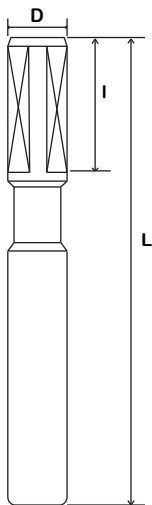


HSS-M2



HSS-M35

Art. Number	Specs	I	L	D
M2*0.4*8*45*2.8	M2*0.4	8	45	2.8
M2.2*0.45*9*45*2.8	M2.2*0.45	9	45	2.8
M2.3*0.4*9*45*2.8	M2.3*0.4	9	45	2.8
M2.5*0.45*9*50*2.8	M2.5*0.45	9	50	2.8
M2.6*0.45*9*50*2.8	M2.6*0.45	9	50	2.8
M3*0.5*11*56*3.5	M3*0.5	11	56	3.5
M3.5*0.6*13*56*4	M3.5*0.6	13	56	4
M4*0.7*13*63*4.5	M4*0.7	13	63	4.5
M5*0.8*16*70*6	M5*0.8	16	70	6
M6*1*19*80*6	M6*1	19	80	6
M7*1*19*80*7	M7*1	19	80	7
M8*1.25*22*90*8	M8*1.25	22	90	8
M9*1.25*22*90*9	M9*1.25	22	90	9
M10*1.5*24*100*10	M10*1.5	24	100	10



Available:



HSS DIN371 Spiral point taps



DIN
371

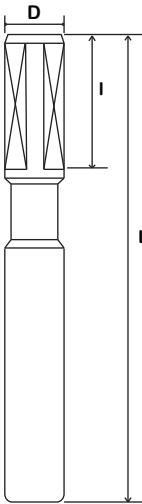


HSS-M2



HSS-M35

Art. Number	Specs	I	L	D
M2*0.4*8*45*2.8	M2*0.4	8	45	2.8
M2.2*0.45*9*45*2.8	M2.2*0.45	9	45	2.8
M2.3*0.4*9*45*2.8	M2.3*0.4	9	45	2.8
M2.5*0.45*9*50*2.8	M2.5*0.45	9	50	2.8
M2.6*0.45*9*50*2.8	M2.6*0.45	9	50	2.8
M3*0.5*11*56*3.5	M3*0.5	11	56	3.5
M3.5*0.6*13*56*4	M3.5*0.6	13	56	4
M4*0.7*13*63*4.5	M4*0.7	13	63	4.5
M5*0.8*16*70*6	M5*0.8	16	70	6
M6*1*19*80*6	M6*1	19	80	6
M7*1*19*80*7	M7*1	19	80	7
M8*1.25*22*90*8	M8*1.25	22	90	8
M9*1.25*22*90*9	M9*1.25	22	90	9
M10*1.5*24*100*10	M10*1.5	24	100	10
M8*1.25*22*90*8	M8*1.25	22	90	8
M9*1.25*22*90*9	M9*1.25	22	90	9
M10*1.5*24*100*10	M10*1.5	24	100	10



Available:





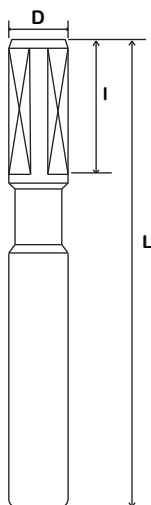
**DIN
376**



HSS-M2



HSS-M35



Available:



Art. Number	Specs	I	L	D
M3*0.5*11*56*2.2	M3*0.5	11	56	2.2
M4*0.7*13*63*2.8	M4*0.7	13	63	2.8
M5*0.8*16*70*3.5	M5*0.8	16	70	3.5
M6*1*19*80*4.5	M6,*1	19	80	4.5
M7*1*19*80*5.5	M7*1	19	80	5.5
M8*1.25*22*90*6	M8*1.25	22	90	6
M9*1.25*22*90*7	M9*1.25	22	90	7
M10*1.5*24*100*7	M10*1.5	24	100	7
M11*1.5*24*100*8	M11*1.5	24	100	8
M12*1.75*29*110*9	M12*1.75	29	110	9
M14*2*30*110*11	M14*2	30	110	11
M16*2*32*110*12	M16*2	32	110	12
M18*2.5*34*125*14	M18*2.5	34	125	14
M20*2.5*34*140*16	M20*2.5	34	140	16
M22*2.5*34*140*18	M22*2.5	34	140	18
M24*3*38*160*18	M24*3	38	160	18
M27*3*38*160*20	M27*3	38	160	20
M30*3.5*45*180*22	M30*3.5	45	180	22
M33*3.5*50*180*25	M33*3.5	50	180	25
M36*4*56*200*28	M36*4	56	200	28
M39*4*60*200*32	M39*4	60	200	32
M42*4.5*60*200*32	M42*4.5	60	200	32
M45*4.5*65*220*36	M45*4.5	65	220	36
M48*5*70*250*36	M48*5	70	250	36
M52*5*70*250*40	M52*5	70	250	40
M48*5*70*250*36	M48*5	70	250	36
M52*5*70*250*40	M52*5	70	250	40

HSS DIN376 Spiral point taps



**DIN
376**



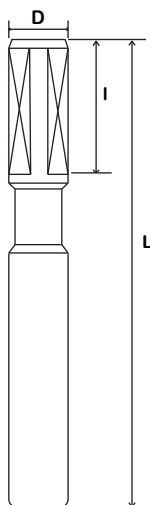
HSS-M2



HSS-M35



HSS-M42



Art. Number	Specs	I	L	D
M3*0.5*11*56*2.2	M3*0.5	11	56	2.2
M4*0.7*13*63*2.8	M4*0.7	13	63	2.8
M5*0.8*16*70*3.5	M5*0.8	16	70	3.5
M6*1*19*80*4.5	M6*1	19	80	4.5
M7*1*19*80*5.5	M7*1	19	80	5.5
M8*1.25*22*90*6	M8*1.25	22	90	6
M9*1.25*22*90*7	M9*1.25	22	90	7
M10*1.5*24*100*7	M10*1.5	24	100	7
M11*1.5*24*100*8	M11*1.5	24	100	8
M12*1.75*29*110*9	M12*1.75	29	110	9
M14*2*30*110*11	M14*2	30	110	11
M16*2*32*110*12	M16*2	32	110	12
M18*2.5*34*125*14	M18*2.5	34	125	14
M20*2.5*34*140*16	M20*2.5	34	140	16
M22*2.5*34*140*18	M22*2.5	34	140	18
M24*3*38*160*18	M24*3	38	160	18
M27*3*38*160*20	M27*3	38	160	20
M30*3.5*45*180*22	M30*3.5	45	180	22
M33*3.5*50*180*25	M33*3.5	50	180	25
M36*4*56*200*28	M36*4	56	200	28
M39*4*60*200*32	M39*4	60	200	32
M42*4.5*60*200*32	M42*4.5	60	200	32
M45*4.5*65*220*36	M45*4.5	65	220	36
M48*5*70*250*36	M48*5	70	250	36
M52*5*70*250*40	M52*5	70	250	40
M52*5*70*250*40	M52*5	70	250	40

Available:



TiN



TiAlN

HRC45 Carbide square end mills 4 flutes



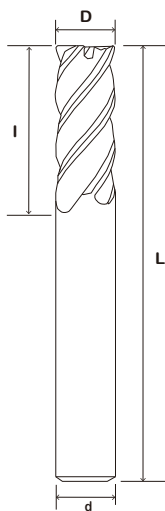
YG10



TiN



35°



Art. Number	D	l	d	L	Z
1*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3*8*4*50*4F	3	8	4	50	4
3.5*10*4*50*4F	3.5	10	4	50	4
4*10*4*50*4F	4	10	4	50	4
4*15*4*75*4F	4	15	4	75	4
4*20*4*100*4F	4	20	4	100	4
5*13*5*50*4F	5	13	5	50	4
5*13*6*50*4F	5	13	6	50	4
6*15*6*50*4F	6	15	6	50	4
6*25*6*75*4F	6	25	6	75	4
6*30*6*100*4F	6	30	6	100	4
8*20*8*60*4F	8	20	8	60	4
8*25*8*75*4F	8	25	8	75	4
8*35*8*100*4F	8	35	8	100	4
10*25*10*75*4F	10	25	10	75	4
10*40*10*100*4F	10	40	10	100	4
12*30*12*75*4F	12	30	12	75	4
12*45*12*100*4F	12	45	12	100	4
14*35*14*80*4F	14	35	14	80	4
14*45*14*100*4F	14	45	14	100	4
16*45*16*100*4F	16	45	16	100	4
18*45*18*100*4F	18	45	18	100	4
20*45*20*100*4F	20	45	20	100	4
6*35*6*150*4F	6	35	6	150	4
8*50*8*150*4F	8	50	8	150	4
10*55*10*150*4F	10	55	10	150	4
12*60*12*150*4F	12	60	12	150	4
14*65*14*150*4F	14	65	14	150	4
16*70*16*150*4F	16	70	16	150	4
18*70*18*150*4F	18	70	18	150	4
20*70*20*150*4F	20	70	20	150	4
7*20*8*60*4F	7	20	8	60	4
9*20*10*75*4F	9	20	10	75	4
11*25*12*75*4F	11	25	12	75	4
13*40*14*100*4F	13	40	14	100	4
15*45*16*100*4F	15	45	16	100	4
4*20*4*150*4F	4	20	4	150	4
6*35*6*200*4F	6	35	6	200	4
8*50*8*200*4F	8	50	8	200	4
10*55*10*200*4F	10	55	10	200	4
12*60*12*200*4F	12	60	12	200	4
14*60*14*200*4F	14	60	14	200	4
16*70*16*200*4F	16	70	16	200	4
20*70*20*200*4F	20	70	20	200	4
18*16*63*123*4F	18	16	63	123	4

HRC45 Carbide square end mills 2 flutes



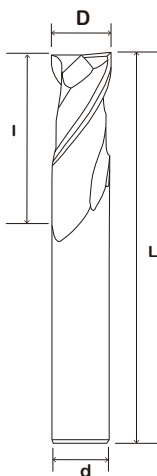
YG10



AlTiN

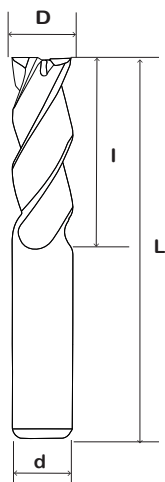


35°



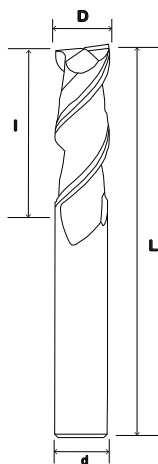
Art. Number	D	l	d	L	Z
1*3*4*50*2F	1	3	4	50	2
1.5*4*4*50*2F	1.5	4	4	50	2
2*6*4*50*2F	2	6	4	50	2
2.5*8*4*50*2F	2.5	8	4	50	2
3*8*4*50*2F	3	8	4	50	2
3.5*10*4*50*2F	3.5	10	4	50	2
4*10*4*50*2F	4	10	4	50	2
4*15*4*75*2F	4	15	4	75	2
4*20*4*100*2F	4	20	4	100	2
5*13*5*50*2F	5	13	5	50	2
5*13*6*50*2F	5	13	6	50	2
6*15*6*50*2F	6	15	6	50	2
6*25*6*75*2F	6	25	6	75	2
6*30*6*100*2F	6	30	6	100	2
8*20*8*60*2F	8	20	8	60	2
8*25*8*75*2F	8	25	8	75	2
8*35*8*100*2F	8	35	8	100	2
10*25*10*75*2F	10	25	10	75	2
10*40*10*100*2F	10	40	10	100	2
12*30*12*75*2F	12	30	12	75	2
12*45*12*100*2F	12	45	12	100	2
14*35*14*80*2F	14	35	14	80	2
14*45*14*100*2F	14	45	14	100	2
16*45*16*100*2F	16	45	16	100	2
18*45*18*100*2F	18	45	18	100	2
20*45*20*100*2F	20	45	20	100	2
6*35*6*150*2F	6	35	6	150	2
8*50*8*150*2F	8	50	8	150	2
10*55*10*150*2F	10	55	10	150	2
12*60*12*150*2F	12	60	12	150	2
14*60*14*150*2F	14	60	14	150	2
16*70*16*150*2F	16	70	16	150	2
18*70*18*150*2F	18	70	18	150	2
20*70*20*150*2F	20	70	20	150	2
7*20*8*60*2F	7	20	8	60	2
9*20*10*75*2F	9	20	10	75	2
11*25*12*75*2F	11	25	12	75	2
13*40*14*100*2F	13	40	14	100	2
15*45*16*100*2F	15	45	16	100	2
4*20*4*150*2F	4	20	4	150	2
6*35*6*200*2F	6	35	6	200	2
8*50*8*200*2F	8	50	8	200	2
10*55*10*200*2F	10	55	10	200	2
12*60*12*200*2F	12	60	12	200	2
14*60*14*200*2F	14	60	14	200	2
16*70*16*200*2F	16	70	16	200	2
20*70*20*200*2F	20	70	20	200	2

HRC45 Carbide end mills for aluminum 3 flutes



Art. Number	D	I	d	L	Z
1*3*4*50*3F	1	3	4	50	3
1.5*4.5*4*50*3F	1.5	4.5	4	50	3
2*6*4*50*3F	2	6	4	50	3
2.5*7*4*50*3F	2.5	7	4	50	3
3*9*4*50*3F	3	9	4	50	3
3*9*3*50*3F	3	9	3	50	3
3.5*10*4*50*3F	3.5	10	4	50	3
4*12*4*50*3F	4	12	4	50	3
4*15*4*75*3F	4	15	4	75	3
4*20*4*100*3F	4	20	4	100	3
5*15*5*50*3F	5	15	5	50	3
5*15*6*50*3F	5	15	6	50	3
6*18*6*50*3F	6	18	6	50	3
6*25*6*75*3F	6	25	6	75	3
6*30*6*100*3F	6	30	6	100	3
8*24*8*60*3F	8	24	8	60	3
8*25*8*75*3F	8	25	8	75	3
8*35*8*100*3F	8	35	8	100	3
10*30*10*75*3F	10	30	10	75	3
10*40*10*100*3F	10	40	10	100	3
12*30*12*75*3F	12	30	12	75	3
12*45*12*100*3F	12	45	12	100	3
14*35*14*80*3F	14	35	14	80	3
14*45*14*100*3F	14	45	14	100	3
16*45*16*100*3F	16	45	16	100	3
18*45*18*100*3F	18	45	18	100	3
20*45*20*100*3F	20	45	20	100	3
6*35*6*150*3F	6	35	6	150	3
8*50*8*150*3F	8	50	8	150	3
10*55*10*150*3F	10	55	10	150	3
12*60*12*150*3F	12	60	12	150	3
14*65*14*150*3F	14	65	14	150	3
16*70*16*150*3F	16	70	16	150	3
18*70*18*150*3F	18	70	18	150	3
20*70*20*150*3F	20	70	20	150	3
7*24*8*60*3F	7	24	8	60	3
9*30*10*75*3F	9	30	10	75	3
11*30*12*75*3F	11	30	12	75	3
13*40*14*100*3F	13	40	14	100	3
15*45*16*100*3F	15	45	16	100	3
6*35*6*200*3F	6	35	6	200	3
8*50*8*200*3F	8	50	8	200	3
10*55*10*200*3F	10	55	10	200	3
12*60*12*200*3F	12	60	12	200	3
14*60*14*200*3F	14	60	14	200	3
16*70*16*200*3F	16	70	16	200	3
20*70*20*200*3F	20	70	20	200	3

HRC45 Carbide end mills for aluminum 2 flutes



Art. Number	D	l	d	L	Z
1*3*4*50*2F	1	3	4	50	2
1.5*4.5*4*50*2F	1.5	4.5	4	50	2
2*6*4*50*2F	2	6	4	50	2
2.5*7*4*50*2F	2.5	7	4	50	2
3*9*3*50*2F	3	9	3	50	2
3*9*4*50*2F	3	9	4	50	2
3.5*10*4*50*2F	3.5	10	4	50	2
4*12*4*50*2F	4	12	4	50	2
4*15*4*75*2F	4	15	4	75	2
4*20*4*100*2F	4	20	4	100	2
5*15*5*50*2F	5	15	5	50	2
5*15*6*50*2F	5	15	6	50	2
6*18*6*50*2F	6	18	6	50	2
6*25*6*75*2F	6	25	6	75	2
6*30*6*100*2F	6	30	6	100	2
8*24*8*60*2F	8	24	8	60	2
8*25*8*75*2F	8	25	8	75	2
8*35*8*100*2F	8	35	8	100	2
10*30*10*75*2F	10	30	10	75	2
10*40*10*100*2F	10	40	10	100	2
12*30*12*75*2F	12	30	12	75	2
12*45*12*100*2F	12	45	12	100	2
14*35*14*80*2F	14	35	14	80	2
14*45*14*100*2F	14	45	14	100	2
16*45*16*100*2F	16	45	16	100	2
18*45*18*100*2F	18	45	18	100	2
20*45*20*100*2F	20	45	20	100	2
6*35*6*150*2F	6	35	6	150	2
8*50*8*150*2F	8	50	8	150	2
10*55*10*150*2F	10	55	10	150	2
12*60*12*150*2F	12	60	12	150	2
14*65*14*150*2F	14	65	14	150	2
16*70*16*150*2F	16	70	16	150	2
18*70*18*150*2F	18	70	18	150	2
20*70*20*150*2F	20	70	20	150	2
7*24*8*60*2F	7	24	8	60	2
9*30*10*75*2F	9	30	10	75	2
11*30*12*75*2F	11	30	12	75	2
13*40*14*100*2F	13	40	14	100	2
15*45*16*100*2F	15	45	16	100	2

HRC45 Carbide ball nose end mills 2 flutes



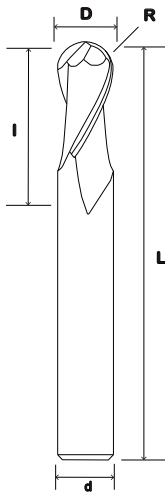
YG10



AlTiN

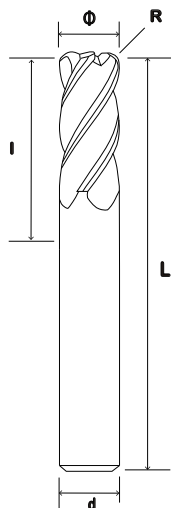


35°



Art. Number	D	I	d	L	Z
R0.5*2*4*50*2T	1	2	4	50	2
R0.75*3*4*50*2T	1.5	3	4	50	2
R1*4*4*50*2T	2	4	4	50	2
R1.25*5*4*50*2T	2.5	5	4	50	2
R1.5*6*3*50*2T	3	6	3	50	2
R1.5*6*4*50*2T	3	6	4	50	2
R1.75*7*4*50*2T	3.5	7	4	50	2
R2*8*4*50*2T	4	8	4	50	2
R2*8*4*75*2T	4	8	4	75	2
R2*8*4*100*2T	4	8	4	100	2
R2.5*10*5*50*2T	5	10	5	50	2
R2.5*10*6*50*2T	5	10	6	50	2
R3*12*6*50*2T	6	12	6	50	2
R3*12*6*75*2T	6	12	6	75	2
R3*12*6*100*2T	6	12	6	100	2
R4*16*8*60*2T	8	16	8	60	2
R4*16*8*75*2T	8	16	8	75	2
R4*16*8*100*2T	8	16	8	100	2
R5*20*10*75*2T	10	20	10	75	2
R5*20*10*100*2T	10	20	10	100	2
R6*24*12*75*2T	12	24	12	75	2
R6*24*12*100*2T	12	24	12	100	2
R7*28*14*80*2T	14	28	14	80	2
R7*28*14*100*2T	14	28	14	100	2
R8*32*16*100*2T	16	32	16	100	2
R9*36*18*100*2T	18	36	18	100	2
R10*40*20*100*2T	20	40	20	100	2
R3*12*6*150*2T	6	12	6	150	2
R4*16*8*150*2T	8	16	8	150	2
R5*20*10*150*2T	10	20	10	150	2
R6*24*12*150*2T	12	24	12	150	2
R7*28*14*150*2T	14	28	14	150	2
R8*32*16*150*2T	16	32	16	150	2
R9*36*18*150*2T	18	36	18	150	2
R10*40*20*150*2T	20	40	20	150	2
R3*12*6*200*2T	6	12	6	200	2
R4*16*8*200*2T	8	16	8	200	2
R5*20*10*200*2T	10	20	10	200	2
R6*24*12*200*2T	12	24	12	200	2
R7*28*14*200*2T	14	28	14	200	2
R8*32*16*200*2T	16	32	16	200	2
R10*40*20*200*2T	20	40	20	200	2
R7*14*8*60*2T	7	14	8	60	2
R9*18*10*75*2T	9	18	10	75	2
R11*22*12*75*2T	11	22	12	75	2
R13*26*14*100*2T	13	26	14	100	2
R15*30*16*100*2T	15	30	16	100	2

HRC45 Carbide corner radius end mills 4 flutes



Art. Number	Φ	R	l	d	L	Z
φ1R0.2*3*4*50*4T	1	0.2	3	4	50	4
φ1.5R0.2*4*4*50*4T	1.5	0.2	4	4	50	4
φ2R0.2*6*4*50*4T	2	0.2	6	4	50	4
φ3R0.2*8*4*50*4T	3	0.2	8	4	50	4
φ4R0.2*11*4*50*4T	4	0.2	11	4	50	4
φ4R0.2*15*4*75*4T	4	0.2	15	4	75	4
φ6R0.2*15*6*50*4T	6	0.2	15	6	50	4
φ2.5R0.2*7*4*50*4T	2.5	0.2	7	4	50	4
φ3R0.2*8*3*50*4T	3	0.2	8	3	50	4
φ4R0.2*20*4*100*4T	4	0.2	20	4	100	4
φ6R0.2*20*6*75*4T	6	0.2	20	6	75	4
φ6R0.2*30*6*100*4T	6	0.2	30	6	100	4
φ8R0.2*20*8*60*4T	8	0.2	20	8	60	4
φ8R0.2*30*8*100*4T	8	0.2	30	8	100	4
φ8R0.2*25*8*75*4T	8	0.2	25	8	75	4
φ10R0.2*25*10*75*4T	10	0.2	25	10	75	4
φ10R0.2*40*10*100*4T	10	0.2	40	10	100	4
φ12R0.2*30*12*75*4T	12	0.2	30	12	75	4
φ1.5R0.3*4*4*50*4T	1.5	0.3	4	4	50	4
φ2R0.3*6*4*50*4T	2	0.3	6	4	50	4
φ2.5R0.3*7*4*50*4T	2.5	0.3	7	4	50	4
φ3R0.3*8*3*50*4T	3	0.3	8	3	50	4
φ3R0.3*8*4*50*4T	3	0.3	8	4	50	4
φ4R0.3*8*4*50*4T	4	0.3	8	4	50	4
φ6R0.3*15*6*50*4T	6	0.3	15	6	50	4
φ8R0.3*20*8*60*4T	8	0.3	20	8	60	4
φ10R0.3*25*10*75*4T	10	0.3	25	10	75	4
φ12R0.3*30*12*75*4T	12	0.3	30	12	75	4
φ2R0.5*6*4*50*4T	2	0.5	6	4	50	4
φ2.5R0.5*7*4*50*4T	2.5	0.5	7	4	50	4
φ3R0.5*8*3*50*4T	3	0.5	8	3	50	4
φ3R0.5*8*4*50*4T	3	0.5	8	4	50	4
φ3R0.5*11*3*75*4T	3	0.5	11	3	75	4
φ3R0.5*13*3*100*4T	3	0.5	13	3	100	4
φ4R0.5*11*4*50*4T	4	0.5	11	4	50	4
φ4R0.5*15*4*75*4T	4	0.5	15	4	75	4
φ4R0.5*20*4*100*4T	4	0.5	20	4	100	4
φ5R0.5*13*5*50*4T	5	0.5	13	5	50	4
φ5R0.5*13*6*50*4T	5	0.5	13	6	50	4
φ5R0.5*20*5*75*4T	5	0.5	20	5	75	4
φ5R0.5*25*5*100*4T	5	0.5	25	5	100	4
φ6R0.5*15*6*50*4T	6	0.5	15	6	50	4
φ6R0.5*25*6*75*4T	6	0.5	25	6	75	4
φ6R0.5*30*6*100*4T	6	0.5	30	6	100	4
φ8R0.5*20*8*60*4T	8	0.5	20	8	60	4
φ8R0.5*25*8*75*4T	8	0.5	25	8	75	4
φ8R0.5*35*8*100*4T	8	0.5	35	8	100	4

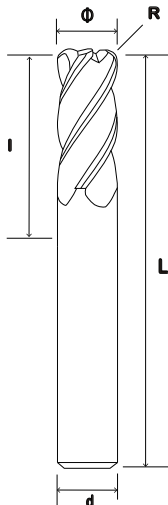
HRC45 Carbide corner radius end mills 4 flutes



YG10



35°

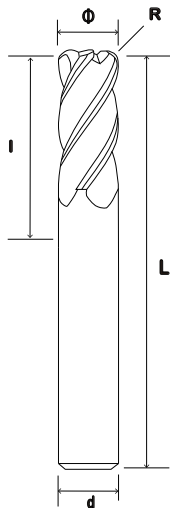


Art. Number	Φ	R	l	d	L	Z
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R0.5*40*10*100*4T	10	0.5	40	10	100	4
φ12R0.5*30*12*75*4T	12	0.5	30	12	75	4
φ12R0.5*45*12*100*4T	12	0.5	45	12	100	4
φ6R0.5*35*6*150*4T	6	0.5	35	6	150	4
φ8R0.5*50*8*150*4T	8	0.5	50	8	150	4
φ10R0.5*55*10*150*4T	10	0.5	55	10	150	4
φ12R0.5*60*12*150*4T	12	0.5	60	12	150	4
φ2R0.5*6*6*75*4T	2	0.5	6	6	75	4
φ3R0.5*9*6*75*4T	3	0.5	9	6	75	4
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R0.5*40*10*100*4T	10	0.5	40	10	100	4
φ12R0.5*30*12*75*4T	12	0.5	30	12	75	4
φ12R0.5*45*12*100*4T	12	0.5	45	12	100	4
φ6R0.5*35*6*150*4T	6	0.5	35	6	150	4
φ8R0.5*50*8*150*4T	8	0.5	50	8	150	4
φ10R0.5*55*10*150*4T	10	0.5	55	10	150	4
φ12R0.5*60*12*150*4T	12	0.5	60	12	150	4
φ2R0.5*6*6*75*4T	2	0.5	6	6	75	4
φ3R0.5*9*6*75*4T	3	0.5	9	6	75	4
φ4R0.5*11*6*75*4T	4	0.5	11	6	75	4
φ3R1*8*3*50*4T	3	1	8	3	50	4
φ3R1*8*4*50*4T	3	1	8	4	50	4
φ3R1*11*3*75*4T	3	1	11	3	75	4
φ3R1*13*3*100*4T	3	1	13	3	100	4
φ4R1*11*4*50*4T	4	1	11	4	50	4
φ4R1*15*4*75*4T	4	1	15	4	75	4
φ4R1*20*4*100*4T	4	1	20	4	100	4
φ5R1*13*5*50*4T	5	1	13	5	50	4
φ5R1*13*6*50*4T	5	1	13	6	50	4
φ5R1*20*5*75*4T	5	1	20	5	75	4
φ5R1*25*5*100*4T	5	1	25	5	100	4
φ6R1*15*6*50*4T	6	1	15	6	50	4
φ6R1*25*6*75*4T	6	1	25	6	75	4
φ6R1*30*6*100*4T	6	1	30	6	100	4
φ8R1*20*8*60*4T	8	1	20	8	60	4
φ8R1*25*8*75*4T	8	1	25	8	75	4
φ8R1*35*8*100*4T	8	1	35	8	100	4
φ10R1*25*10*75*4T	10	1	25	10	75	4
φ10R1*40*10*100*4T	10	1	40	10	100	4
φ12R1*30*12*75*4T	12	1	30	12	75	4
φ12R1*45*12*100*4T	12	1	45	12	100	4
φ6R1*35*6*150*4T	6	1	35	6	150	4
φ8R1*50*8*150*4T	8	1	50	8	150	4
φ10R1*55*10*15*4T	10	1	55	10	15	4
φ12R1*60*12*150*4T	12	1	60	12	150	4
φ14R1*45*14*100*4T	14	1	45	14	100	4

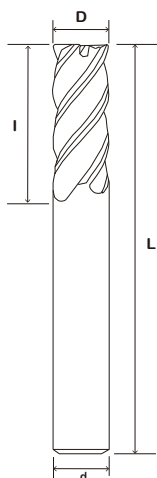
HRC45 Carbide corner radius end mills 4 flutes



Art. Number	Φ	R	l	d	L	Z
φ6R2*20*6*75*4T	6	2	20	6	75	4
φ6R2.5*15*6*50*4T	6	2.5	15	6	50	4
φ6R2*30*6*100*4T	6	2	30	6	100	4
φ8R2*30*8*150*4T	8	2	30	8	150	4
φ8R2*20*8*60*4T	8	2	20	8	60	4
φ8R2*25*8*75*4T	8	2	25	8	75	4
φ8R2*35*8*100*4T	8	2	35	8	100	4
φ10R2*25*10*75*4T	10	2	25	10	75	4
φ10R2*55*10*150*4T	10	2	55	10	150	4
φ10R2*40*10*100*4T	10	2	40	10	100	4
φ10R2.5*25*12*75*4T	10	2.5	25	12	75	4
φ12R2*30*12*75*4T	12	2	30	12	75	4
φ12R2*45*12*100*4T	12	2	45	12	100	4
φ12R2*60*12*100*4T	12	2	60	12	100	4
φ12R2.5*30*12*150*4T	12	2.5	30	12	150	4
φ16R2.5*45*16*100*4T	16	2.5	45	16	100	4
φ16R2*45*16*150*4T	16	2	45	16	150	4
φ6R2*70*6*150*4T	6	2	70	6	150	4



HRC55 Carbide square end mills 4 flutes



Art. Number	D	l	d	L	Z
1*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3*8*4*50*4F	3	8	4	50	4
3.5*10*4*50*4F	3.5	10	4	50	4
4*10*4*50*4F	4	10	4	50	4
4*15*4*75*4F	4	15	4	75	4
4*20*4*100*4F	4	20	4	100	4
5*13*5*50*4F	5	13	5	50	4
5*13*6*50*4F	5	13	6	50	4
6*15*6*50*4F	6	15	6	50	4
6*25*6*75*4F	6	25	6	75	4
6*30*6*100*4F	6	30	6	100	4
8*20*8*60*4F	8	20	8	60	4
8*25*8*75*4F	8	25	8	75	4
8*35*8*100*4F	8	35	8	100	4
10*25*10*75*4F	10	25	10	75	4
10*40*10*100*4F	10	40	10	100	4
12*30*12*75*4F	12	30	12	75	4
12*45*12*100*4F	12	45	12	100	4
14*35*14*80*4F	14	35	14	80	4
14*45*14*100*4F	14	45	14	100	4
16*45*16*100*4F	16	45	16	100	4
18*45*18*100*4F	18	45	18	100	4
20*45*20*100*4F	20	45	20	100	4
6*35*6*150*4F	6	35	6	150	4
8*50*8*150*4F	8	50	8	150	4
10*55*10*150*4F	10	55	10	150	4
12*60*12*150*4F	12	60	12	150	4
14*65*14*150*4F	14	65	14	150	4
16*70*16*150*4F	16	70	16	150	4
18*70*18*150*4F	18	70	18	150	4
20*70*20*150*4F	20	70	20	150	4
7*20*8*60*4F	7	20	8	60	4
9*20*10*75*4F	9	20	10	75	4
11*25*12*75*4F	11	25	12	75	4
13*40*14*100*4F	13	40	14	100	4
15*45*16*100*4F	15	45	16	100	4
4*20*4*150*4F	4	20	4	150	4
6*35*6*200*4F	6	35	6	200	4
8*50*8*200*4F	8	50	8	200	4
10*55*10*200*4F	10	55	10	200	4
12*60*12*200*4F	12	60	12	200	4
14*60*14*200*4F	14	60	14	200	4
16*70*16*200*4F	16	70	16	200	4
20*70*20*200*4F	20	70	20	200	4
18*16*63*123*4F	18	16	63	123	4

HRC55 Carbide square end mills 2 flutes



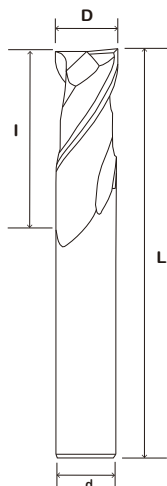
YS12



TiSiN



35°



Art. Number	D	l	d	L	Z
1*3*4*50*2F	1	3	4	50	2
1.5*4*4*50*2F	1.5	4	4	50	2
2*6*4*50*2F	2	6	4	50	2
2.5*8*4*50*2F	2.5	8	4	50	2
3*8*4*50*2F	3	8	4	50	2
3.5*10*4*50*2F	3.5	10	4	50	2
4*10*4*50*2F	4	10	4	50	2
4*15*4*75*2F	4	15	4	75	2
4*20*4*100*2F	4	20	4	100	2
5*13*5*50*2F	5	13	5	50	2
5*13*6*50*2F	5	13	6	50	2
6*15*6*50*2F	6	15	6	50	2
6*25*6*75*2F	6	25	6	75	2
6*30*6*100*2F	6	30	6	100	2
8*20*8*60*2F	8	20	8	60	2
8*25*8*75*2F	8	25	8	75	2
8*35*8*100*2F	8	35	8	100	2
10*25*10*75*2F	10	25	10	75	2
10*40*10*100*2F	10	40	10	100	2
12*30*12*75*2F	12	30	12	75	2
12*45*12*100*2F	12	45	12	100	2
14*35*14*80*2F	14	35	14	80	2
14*45*14*100*2F	14	45	14	100	2
16*45*16*100*2F	16	45	16	100	2
18*45*18*100*2F	18	45	18	100	2
20*45*20*100*2F	20	45	20	100	2
6*35*6*150*2F	6	35	6	150	2
8*50*8*150*2F	8	50	8	150	2
10*55*10*150*2F	10	55	10	150	2
12*60*12*150*2F	12	60	12	150	2
14*60*14*150*2F	14	60	14	150	2
16*70*16*150*2F	16	70	16	150	2
18*70*18*150*2F	18	70	18	150	2
20*70*20*150*2F	20	70	20	150	2
7*20*8*60*2F	7	20	8	60	2
9*20*10*75*2F	9	20	10	75	2
11*25*12*75*2F	11	25	12	75	2
13*40*14*100*2F	13	40	14	100	2
15*45*16*100*2F	15	45	16	100	2
4*20*4*150*2F	4	20	4	150	2
6*35*6*200*2F	6	35	6	200	2
8*50*8*200*2F	8	50	8	200	2
10*55*10*200*2F	10	55	10	200	2
12*60*12*200*2F	12	60	12	200	2
14*60*14*200*2F	14	60	14	200	2
16*70*16*200*2F	16	70	16	200	2
20*70*20*200*2F	20	70	20	200	2

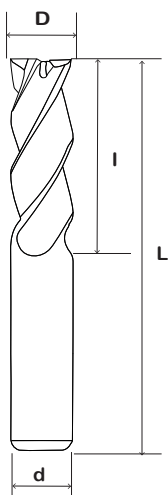
HRC55 Carbide end mills for aluminum 3 flutes



YS12

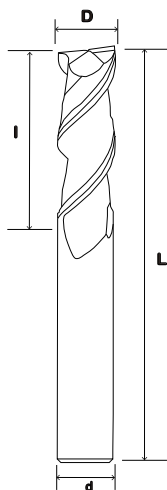


45°



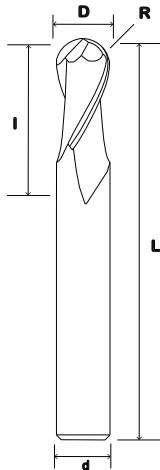
Art. Number	D	l	d	L	Z
1*3*4*50*3F	1	3	4	50	3
1.5*4.5*4*50*3F	1.5	4.5	4	50	3
2*6*4*50*3F	2	6	4	50	3
2.5*7*4*50*3F	2.5	7	4	50	3
3*9*4*50*3F	3	9	4	50	3
3*9*3*50*3F	3	9	3	50	3
3.5*10*4*50*3F	3.5	10	4	50	3
4*12*4*50*3F	4	12	4	50	3
4*15*4*75*3F	4	15	4	75	3
4*20*4*100*3F	4	20	4	100	3
5*15*5*50*3F	5	15	5	50	3
5*15*6*50*3F	5	15	6	50	3
6*18*6*50*3F	6	18	6	50	3
6*25*6*75*3F	6	25	6	75	3
6*30*6*100*3F	6	30	6	100	3
8*24*8*60*3F	8	24	8	60	3
8*25*8*75*3F	8	25	8	75	3
8*35*8*100*3F	8	35	8	100	3
10*30*10*75*3F	10	30	10	75	3
10*40*10*100*3F	10	40	10	100	3
12*30*12*75*3F	12	30	12	75	3
12*45*12*100*3F	12	45	12	100	3
14*35*14*80*3F	14	35	14	80	3
14*45*14*100*3F	14	45	14	100	3
16*45*16*100*3F	16	45	16	100	3
18*45*18*100*3F	18	45	18	100	3
20*45*20*100*3F	20	45	20	100	3
6*35*6*150*3F	6	35	6	150	3
8*50*8*150*3F	8	50	8	150	3
10*55*10*150*3F	10	55	10	150	3
12*60*12*150*3F	12	60	12	150	3
14*65*14*150*3F	14	65	14	150	3
16*70*16*150*3F	16	70	16	150	3
18*70*18*150*3F	18	70	18	150	3
20*70*20*150*3F	20	70	20	150	3
7*24*8*60*3F	7	24	8	60	3
9*30*10*75*3F	9	30	10	75	3
11*30*12*75*3F	11	30	12	75	3
13*40*14*100*3F	13	40	14	100	3
15*45*16*100*3F	15	45	16	100	3
6*35*6*200*3F	6	35	6	200	3
8*50*8*200*3F	8	50	8	200	3
10*55*10*200*3F	10	55	10	200	3
12*60*12*200*3F	12	60	12	200	3
14*60*14*200*3F	14	60	14	200	3
16*70*16*200*3F	16	70	16	200	3
20*70*20*200*3F	20	70	20	200	3

HRC55 Carbide end mills for aluminum 2 flutes



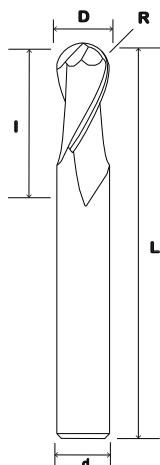
Art. Number	D	l	d	L	Z
1*3*4*50*2F	1	3	4	50	2
1.5*4*4*50*2F	1.5	4	4	50	2
2*6*4*50*2F	2	6	4	50	2
2.5*8*4*50*2F	2.5	8	4	50	2
3*8*4*50*2F	3	8	4	50	2
3.5*10*4*50*2F	3.5	10	4	50	2
4*10*4*50*2F	4	10	4	50	2
4*15*4*75*2F	4	15	4	75	2
4*20*4*100*2F	4	20	4	100	2
5*13*5*50*2F	5	13	5	50	2
5*13*6*50*2F	5	13	6	50	2
6*15*6*50*2F	6	15	6	50	2
6*25*6*75*2F	6	25	6	75	2
6*30*6*100*2F	6	30	6	100	2
8*20*8*60*2F	8	20	8	60	2
8*25*8*75*2F	8	25	8	75	2
8*35*8*100*2F	8	35	8	100	2
10*25*10*75*2F	10	25	10	75	2
10*40*10*100*2F	10	40	10	100	2
12*30*12*75*2F	12	30	12	75	2
12*45*12*100*2F	12	45	12	100	2
14*35*14*80*2F	14	35	14	80	2
14*45*14*100*2F	14	45	14	100	2
16*45*16*100*2F	16	45	16	100	2
18*45*18*100*2F	18	45	18	100	2
20*45*20*100*2F	20	45	20	100	2
6*35*6*150*2F	6	35	6	150	2
8*50*8*150*2F	8	50	8	150	2
10*55*10*150*2F	10	55	10	150	2
12*60*12*150*2F	12	60	12	150	2
14*60*14*150*2F	14	60	14	150	2
16*70*16*150*2F	16	70	16	150	2
18*70*18*150*2F	18	70	18	150	2
20*70*20*150*2F	20	70	20	150	2
7*20*8*60*2F	7	20	8	60	2
9*20*10*75*2F	9	20	10	75	2
11*25*12*75*2F	11	25	12	75	2
13*40*14*100*2F	13	40	14	100	2
15*45*16*100*2F	15	45	16	100	2
4*20*4*150*2F	4	20	4	150	2
6*35*6*200*2F	6	35	6	200	2
8*50*8*200*2F	8	50	8	200	2
10*55*10*200*2F	10	55	10	200	2
12*60*12*200*2F	12	60	12	200	2
14*60*14*200*2F	14	60	14	200	2
16*70*16*200*2F	16	70	16	200	2
20*70*20*200*2F	20	70	20	200	2

HRC55 Carbide ball nose end mills 2 flutes



Art. Number	D	l	d	L	Z
R0.5*2*4*50*2T	1	2	4	50	2
R0.75*3*4*50*2T	1.5	3	4	50	2
R1*4*4*50*2T	2	4	4	50	2
R1.25*5*4*50*2T	2.5	5	4	50	2
R1.5*6*3*50*2T	3	6	3	50	2
R1.5*6*4*50*2T	3	6	4	50	2
R1.75*7*4*50*2T	3.5	7	4	50	2
R2*8*4*50*2T	4	8	4	50	2
R2*8*4*75*2T	4	8	4	75	2
R2*8*4*100*2T	4	8	4	100	2
R2.5*10*5*50*2T	5	10	5	50	2
R2.5*10*6*50*2T	5	10	6	50	2
R3*12*6*50*2T	6	12	6	50	2
R3*12*6*75*2T	6	12	6	75	2
R3*12*6*100*2T	6	12	6	100	2
R4*16*8*60*2T	8	16	8	60	2
R4*16*8*75*2T	8	16	8	75	2
R4*16*8*100*2T	8	16	8	100	2
R5*20*10*75*2T	10	20	10	75	2
R5*20*10*100*2T	10	20	10	100	2
R6*24*12*75*2T	12	24	12	75	2
R6*24*12*100*2T	12	24	12	100	2
R7*28*14*80*2T	14	28	14	80	2
R7*28*14*100*2T	14	28	14	100	2
R8*32*16*100*2T	16	32	16	100	2
R9*36*18*100*2T	18	36	18	100	2
R10*40*20*100*2T	20	40	20	100	2
R3*12*6*150*2T	6	12	6	150	2
R4*16*8*150*2T	8	16	8	150	2
R5*20*10*150*2T	10	20	10	150	2
R6*24*12*150*2T	12	24	12	150	2
R7*28*14*150*2T	14	28	14	150	2
R8*32*16*150*2T	16	32	16	150	2
R9*36*18*150*2T	18	36	18	150	2
R10*40*20*150*2T	20	40	20	150	2
R3*12*6*200*2T	6	12	6	200	2
R4*16*8*200*2T	8	16	8	200	2
R5*20*10*200*2T	10	20	10	200	2
R6*24*12*200*2T	12	24	12	200	2
R7*28*14*200*2T	14	28	14	200	2
R8*32*16*200*2T	16	32	16	200	2
R10*40*20*200*2T	20	40	20	200	2
R7*14*8*60*2T	7	14	8	60	2
R9*18*10*75*2T	9	18	10	75	2
R11*22*12*75*2T	11	22	12	75	2
R13*26*14*100*2T	13	26	14	100	2
R15*30*16*100*2T	15	30	16	100	2

HRC55 Carbide ball nose end mills for aluminum 2 flutes



Art. Number	D	L	d	L	Z
R0.5*2*4*50*2T	1	2	4	50	2
R0.75*3*4*50*2T	1.5	3	4	50	2
R1*4*4*50*2T	2	4	4	50	2
R1.25*5*4*50*2T	2.5	5	4	50	2
R1.5*6*3*50*2T	3	6	3	50	2
R1.5*6*4*50*2T	3	6	4	50	2
R1.75*7*4*50*2T	3.5	7	4	50	2
R2*8*4*50*2T	4	8	4	50	2
R2*8*4*75*2T	4	8	4	75	2
R2*8*4*100*2T	4	8	4	100	2
R2.5*10*5*50*2T	5	10	5	50	2
R2.5*10*6*50*2T	5	10	6	50	2
R3*12*6*50*2T	6	12	6	50	2
R3*12*6*75*2T	6	12	6	75	2
R3*12*6*100*2T	6	12	6	100	2
R4*16*8*60*2T	8	16	8	60	2
R4*16*8*75*2T	8	16	8	75	2
R4*16*8*100*2T	8	16	8	100	2
R5*20*10*75*2T	10	20	10	75	2
R5*20*10*100*2T	10	20	10	100	2
R6*24*12*75*2T	12	24	12	75	2
R6*24*12*100*2T	12	24	12	100	2
R7*28*14*80*2T	14	28	14	80	2
R7*28*14*100*2T	14	28	14	100	2
R8*32*16*100*2T	16	32	16	100	2
R9*36*18*100*2T	18	36	18	100	2
R10*40*20*100*2T	20	40	20	100	2
R3*12*6*150*2T	6	12	6	150	2
R4*16*8*150*2T	8	16	8	150	2
R5*20*10*150*2T	10	20	10	150	2
R6*24*12*150*2T	12	24	12	150	2
R7*28*14*150*2T	14	28	14	150	2
R8*32*16*150*2T	16	32	16	150	2
R9*36*18*150*2T	18	36	18	150	2
R10*40*20*150*2T	20	40	20	150	2
R3*12*6*200*2T	6	12	6	200	2
R4*16*8*200*2T	8	16	8	200	2
R5*20*10*200*2T	10	20	10	200	2
R6*24*12*200*2T	12	24	12	200	2
R7*28*14*200*2T	14	28	14	200	2
R8*32*16*200*2T	16	32	16	200	2
R10*40*20*200*2T	20	40	20	200	2
R7*14*8*60*2T	7	14	8	60	2
R9*18*10*75*2T	9	18	10	75	2
R11*22*12*75*2T	11	22	12	75	2
R13*26*14*100*2T	13	26	14	100	2
R15*30*16*100*2T	15	30	16	100	2

HRC55 Carbide ball nose end mills 2 flutes



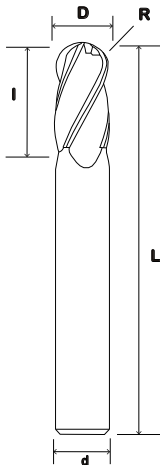
YS12



TiSiN



35°



Art. Number	Φ	R	l	d	L
R1*2*4*50*4T	1	2	4	50	4
R1.5*3*4*50*4T	1.5	3	4	50	4
R2*4*4*50*4T	2	4	4	50	4
R2.5*5*4*50*4T	2.5	5	4	50	4
R3*6*3*50*4T	3	6	3	50	4
R3*6*4*50*4T	3	6	4	50	4
R3.5*7*4*50*4T	3.5	7	4	50	4
R4*8*4*50*4T	4	8	4	50	4
R4*8*4*75*4T	4	8	4	75	4
R5*10*5*50*4T	5	10	5	50	4
R5*10*6*50*4T	5	10	6	50	4
R6*12*6*50*4T	6	12	6	50	4
R6*12*6*75*4T	6	12	6	75	4
R6*12*6*100*4T	6	12	6	100	4
R8*16*8*60*4T	8	16	8	60	4
R8*16*8*75*4T	8	16	8	75	4
R8*16*8*100*4T	8	16	8	100	4
R10*20*10*75*4T	10	20	10	75	4
R10*20*10*100*4T	10	20	10	100	4
R12*24*12*75*4T	12	24	12	75	4
R12*24*12*100*4T	12	24	12	100	4
R14*28*14*80*4T	14	28	14	80	4
R14*28*14*100*4T	14	28	14	100	4
R16*32*16*100*4T	16	32	16	100	4
R18*36*18*100*4T	18	36	18	100	4
R20*40*20*100*4T	20	40	20	100	4
R6*12*6*150*4T	6	12	6	150	4
R8*16*8*150*4T	8	16	8	150	4
R10*20*10*150*4T	10	20	10	150	4
R12*24*12*150*4T	12	24	12	150	4
R14*28*14*150*4T	14	28	14	150	4
R16*32*16*150*4T	16	32	16	150	4
R18*36*18*150*4T	18	36	18	150	4
R20*40*20*150*4T	20	40	20	150	4

HRC55 Carbide ball nose end mills 2 flutes



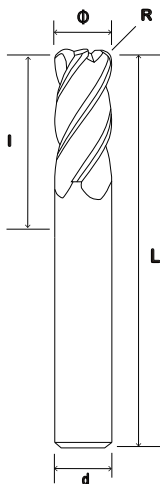
YS12



TiSiN

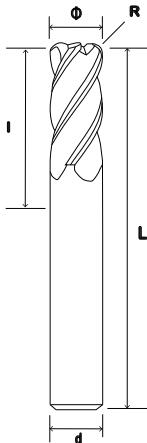


35°



Art. Number	Φ	R	l	d	L	Z
φ1R0.2*3*4*50*4T	1	0.2	3	4	50	4
φ1.5R0.2*4*4*50*4T	1.5	0.2	4	4	50	4
φ2R0.2*6*4*50*4T	2	0.2	6	4	50	4
φ3R0.2*8*4*50*4T	3	0.2	8	4	50	4
φ4R0.2*11*4*50*4T	4	0.2	11	4	50	4
φ4R0.2*15*4*75*4T	4	0.2	15	4	75	4
φ6R0.2*15*6*50*4T	6	0.2	15	6	50	4
φ2.5R0.2*7*4*50*4T	2.5	0.2	7	4	50	4
φ3R0.2*8*3*50*4T	3	0.2	8	3	50	4
φ4R0.2*20*4*100*4T	4	0.2	20	4	100	4
φ6R0.2*20*6*75*4T	6	0.2	20	6	75	4
φ6R0.2*30*6*100*4T	6	0.2	30	6	100	4
φ8R0.2*20*8*60*4T	8	0.2	20	8	60	4
φ8R0.2*30*8*100*4T	8	0.2	30	8	100	4
φ8R0.2*25*8*75*4T	8	0.2	25	8	75	4
φ10R0.2*25*10*75*4T	10	0.2	25	10	75	4
φ10R0.2*40*10*100*4T	10	0.2	40	10	100	4
φ12R0.2*30*12*75*4T	12	0.2	30	12	75	4
φ1.5R0.3*4*4*50*4T	1.5	0.3	4	4	50	4
φ2R0.3*6*4*50*4T	2	0.3	6	4	50	4
φ2.5R0.3*7*4*50*4T	2.5	0.3	7	4	50	4
φ3R0.3*8*3*50*4T	3	0.3	8	3	50	4
φ3R0.3*8*4*50*4T	3	0.3	8	4	50	4
φ4R0.3*8*4*50*4T	4	0.3	8	4	50	4
φ6R0.3*15*6*50*4T	6	0.3	15	6	50	4
φ8R0.3*20*8*60*4T	8	0.3	20	8	60	4
φ10R0.3*25*10*75*4T	10	0.3	25	10	75	4
φ12R0.3*30*12*75*4T	12	0.3	30	12	75	4
φ2R0.5*6*4*50*4T	2	0.5	6	4	50	4
φ2.5R0.5*7*4*50*4T	2.5	0.5	7	4	50	4
φ3R0.5*8*3*50*4T	3	0.5	8	3	50	4
φ3R0.5*8*4*50*4T	3	0.5	8	4	50	4
φ3R0.5*11*3*75*4T	3	0.5	11	3	75	4
φ3R0.5*13*3*100*4T	3	0.5	13	3	100	4
φ4R0.5*11*4*50*4T	4	0.5	11	4	50	4
φ4R0.5*15*4*75*4T	4	0.5	15	4	75	4
φ4R0.5*20*4*100*4T	4	0.5	20	4	100	4
φ5R0.5*13*5*50*4T	5	0.5	13	5	50	4
φ5R0.5*13*6*50*4T	5	0.5	13	6	50	4
φ5R0.5*20*5*75*4T	5	0.5	20	5	75	4
φ5R0.5*25*5*100*4T	5	0.5	25	5	100	4
φ6R0.5*15*6*50*4T	6	0.5	15	6	50	4
φ6R0.5*25*6*75*4T	6	0.5	25	6	75	4
φ6R0.5*30*6*100*4T	6	0.5	30	6	100	4
φ8R0.5*20*8*60*4T	8	0.5	20	8	60	4
φ8R0.5*25*8*75*4T	8	0.5	25	8	75	4
φ8R0.5*35*8*100*4T	8	0.5	35	8	100	4

HRC55 Carbide corner radius end mills 4 flutes



Art. Number	Φ	R	I	d	L	Z
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R0.5*40*10*100*4T	10	0.5	40	10	100	4
φ12R0.5*30*12*75*4T	12	0.5	30	12	75	4
φ12R0.5*45*12*100*4T	12	0.5	45	12	100	4
φ6R0.5*35*6*150*4T	6	0.5	35	6	150	4
φ8R0.5*50*8*150*4T	8	0.5	50	8	150	4
φ10R0.5*55*10*150*4T	10	0.5	55	10	150	4
φ12R0.5*60*12*150*4T	12	0.5	60	12	150	4
φ2R0.5*6*6*75*4T	2	0.5	6	6	75	4
φ3R0.5*9*6*75*4T	3	0.5	9	6	75	4
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R0.5*40*10*100*4T	10	0.5	40	10	100	4
φ12R0.5*30*12*75*4T	12	0.5	30	12	75	4
φ12R0.5*45*12*100*4T	12	0.5	45	12	100	4
φ6R0.5*35*6*150*4T	6	0.5	35	6	150	4
φ8R0.5*50*8*150*4T	8	0.5	50	8	150	4
φ10R0.5*55*10*150*4T	10	0.5	55	10	150	4
φ12R0.5*60*12*150*4T	12	0.5	60	12	150	4
φ2R0.5*6*6*75*4T	2	0.5	6	6	75	4
φ3R0.5*9*6*75*4T	3	0.5	9	6	75	4
φ4R0.5*11*6*75*4T	4	0.5	11	6	75	4
φ3R1*8*3*50*4T	3	1	8	3	50	4
φ3R1*8*4*50*4T	3	1	8	4	50	4
φ3R1*11*3*75*4T	3	1	11	3	75	4
φ3R1*13*3*100*4T	3	1	13	3	100	4
φ4R1*11*4*50*4T	4	1	11	4	50	4
φ4R1*15*4*75*4T	4	1	15	4	75	4
φ4R1*20*4*100*4T	4	1	20	4	100	4
φ5R1*13*5*50*4T	5	1	13	5	50	4
φ5R1*13*6*50*4T	5	1	13	6	50	4
φ5R1*20*5*75*4T	5	1	20	5	75	4
φ5R1*25*5*100*4T	5	1	25	5	100	4
φ6R1*15*6*50*4T	6	1	15	6	50	4
φ6R1*25*6*75*4T	6	1	25	6	75	4
φ6R1*30*6*100*4T	6	1	30	6	100	4
φ8R1*20*8*60*4T	8	1	20	8	60	4
φ8R1*25*8*75*4T	8	1	25	8	75	4
φ8R1*35*8*100*4T	8	1	35	8	100	4
φ10R1*25*10*75*4T	10	1	25	10	75	4
φ10R1*40*10*100*4T	10	1	40	10	100	4
φ12R1*30*12*75*4T	12	1	30	12	75	4
φ12R1*45*12*100*4T	12	1	45	12	100	4
φ6R1*35*6*150*4T	6	1	35	6	150	4
φ8R1*50*8*150*4T	8	1	50	8	150	4
φ10R1*55*10*15*4T	10	1	55	10	15	4
φ12R1*60*12*150*4T	12	1	60	12	150	4
φ14R1*45*14*100*4T	14	1	45	14	100	4

HRC55 Carbide corner radius end mills 4 flutes



YS12

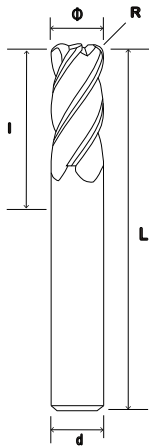


TiSiN



35°

Art. Number	Φ	R	l	d	L	Z
φ6R2*20*6*75*4T	6	2	20	6	75	4
φ6R2.5*15*6*50*4T	6	2.5	15	6	50	4
φ6R2*30*6*100*4T	6	2	30	6	100	4
φ8R2*30*8*150*4T	8	2	30	8	150	4
φ8R2*20*8*60*4T	8	2	20	8	60	4
φ8R2*25*8*75*4T	8	2	25	8	75	4
φ8R2*35*8*100*4T	8	2	35	8	100	4
φ10R2*25*10*75*4T	10	2	25	10	75	4
φ10R2*55*10*150*4T	10	2	55	10	150	4
φ10R2*40*10*100*4T	10	2	40	10	100	4
φ10R2.5*25*12*75*4T	10	2.5	25	12	75	4
φ12R2*30*12*75*4T	12	2	30	12	75	4
φ12R2*45*12*100*4T	12	2	45	12	100	4
φ12R2*60*12*100*4T	12	2	60	12	100	4
φ12R2.5*30*12*150*4T	12	2.5	30	12	150	4
φ16R2.5*45*16*100*4T	16	2.5	45	16	100	4
φ16R2*45*16*150*4T	16	2	45	16	150	4
φ6R2*70*6*150*4T	6	2	70	6	150	4



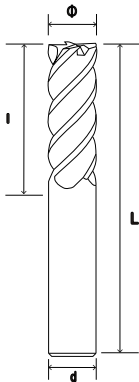
HRC65 Carbide square end mills 4 flutes



ST25F

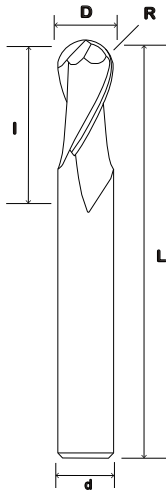


35°



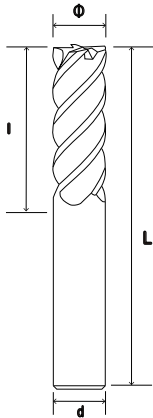
Art. Number	D	l	L	d	Z
1*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3*8*4*50*4F	3	8	4	50	4
3.5*10*4*50*4F	3.5	10	4	50	4
4*10*4*50*4F	4	10	4	50	4
4*15*4*75*4F	4	15	4	75	4
4*20*4*100*4F	4	20	4	100	4
5*13*5*50*4F	5	13	5	50	4
5*13*6*50*4F	5	13	6	50	4
6*15*6*50*4F	6	15	6	50	4
6*25*6*75*4F	6	25	6	75	4
6*30*6*100*4F	6	30	6	100	4
8*20*8*60*4F	8	20	8	60	4
8*25*8*75*4F	8	25	8	75	4
8*35*8*100*4F	8	35	8	100	4
10*25*10*75*4F	10	25	10	75	4
10*40*10*100*4F	10	40	10	100	4
12*30*12*75*4F	12	30	12	75	4
12*45*12*100*4F	12	45	12	100	4
14*35*14*80*4F	14	35	14	80	4
14*45*14*100*4F	14	45	14	100	4
16*45*16*100*4F	16	45	16	100	4
18*45*18*100*4F	18	45	18	100	4
20*45*20*100*4F	20	45	20	100	4
6*35*6*150*4F	6	35	6	150	4
8*50*8*150*4F	8	50	8	150	4
10*55*10*150*4F	10	55	10	150	4
12*60*12*150*4F	12	60	12	150	4
14*65*14*150*4F	14	65	14	150	4
16*70*16*150*4F	16	70	16	150	4
18*70*18*150*4F	18	70	18	150	4
20*70*20*150*4F	20	70	20	150	4
7*20*8*60*4F	7	20	8	60	4
9*20*10*75*4F	9	20	10	75	4
11*25*12*75*4F	11	25	12	75	4
13*40*14*100*4F	13	40	14	100	4
15*45*16*100*4F	15	45	16	100	4

HRC65 Carbide ball nose end mills 2 flutes



Art. Number	D	I	d	L	Z
R0.5*2*4*50*2T	1	2	4	50	2
R0.75*3*4*50*2T	1.5	3	4	50	2
R1*4*4*50*2T	2	4	4	50	2
R1.25*5*4*50*2T	2.5	5	4	50	2
R1.5*6*3*50*2T	3	6	3	50	2
R1.5*6*4*50*2T	3	6	4	50	2
R1.75*7*4*50*2T	3.5	7	4	50	2
R2*8*4*50*2T	4	8	4	50	2
R2*8*4*75*2T	4	8	4	75	2
R2*8*4*100*2T	4	8	4	100	2
R2.5*10*5*50*2T	5	10	5	50	2
R2.5*10*6*50*2T	5	10	6	50	2
R3*12*6*50*2T	6	12	6	50	2
R3*12*6*75*2T	6	12	6	75	2
R3*12*6*100*2T	6	12	6	100	2
R4*16*8*60*2T	8	16	8	60	2
R4*16*8*75*2T	8	16	8	75	2
R4*16*8*100*2T	8	16	8	100	2
R5*20*10*75*2T	10	20	10	75	2
R5*20*10*100*2T	10	20	10	100	2
R6*24*12*75*2T	12	24	12	75	2
R6*24*12*100*2T	12	24	12	100	2
R7*28*14*80*2T	14	28	14	80	2
R7*28*14*100*2T	14	28	14	100	2
R8*32*16*100*2T	16	32	16	100	2
R9*36*18*100*2T	18	36	18	100	2
R10*40*20*100*2T	20	40	20	100	2
R3*12*6*150*2T	6	12	6	150	2
R4*16*8*150*2T	8	16	8	150	2
R5*20*10*150*2T	10	20	10	150	2
R6*24*12*150*2T	12	24	12	150	2
R7*28*14*150*2T	14	28	14	150	2
R8*32*16*150*2T	16	32	16	150	2
R9*36*18*150*2T	18	36	18	150	2
R10*40*20*150*2T	20	40	20	150	2
R3.5*14*8*60*2T	7	14	8	60	2
R4.5*18*10*75*2T	9	18	10	75	2
R5.5*22*12*75*2T	11	22	12	75	2
R6.5*26*14*100*2T	13	26	14	100	2
R7.5*30*16*100*2T	15	30	16	100	2

HRC65 Carbide corner radius end mills 4 flutes



Art. Number	Φ	R	l	d	L	Z
φ1R0.2*3*4*50*4T	1	0.2	3	4	50	4
φ1.5R0.2*4*4*50*4T	1.5	0.2	4	4	50	4
φ2R0.2*6*4*50*4T	2	0.2	6	4	50	4
φ2R0.5*6*4*50*4T	2	0.5	6	4	50	4
φ2.5R0.2*7*4*50*4T	2.5	0.2	7	4	50	4
φ3R0.2*8*4*50*4T	3	0.2	8	4	50	4
φ3R0.5*8*4*50*4T	3	0.5	8	4	50	4
φ4R0.2*11*4*50*4T	4	0.2	11	4	50	4
φ4R0.5*11*4*50*4T	4	0.5	11	4	50	4
φ4R0.5*15*4*75*4T	4	0.5	15	4	75	4
φ4R0.5*20*4*100*4T	4	0.5	20	4	100	4
φ3R1*8*4*50*4T	3	1	8	4	50	4
φ4R1*11*4*50*4T	4	1	11	4	50	4
φ4R1*15*4*75*4T	4	1	15	4	75	4
φ4R1*20*4*100*4T	4	1	20	4	100	4
φ5R0.5*13*5*50*4T	5	0.5	13	5	50	4
φ5R0.5*20*5*75*4T	5	0.5	20	5	75	4
φ5R1*13*5*50*4T	5	1	13	5	50	4
φ5R1*20*5*75*4T	5	1	20	5	75	4
φ6R0.5*15*6*50*4T	6	0.5	15	6	50	4
φ6R0.5*25*6*75*4T	6	0.5	25	6	75	4
φ6R0.5*30*6*100*4T	6	0.5	30	6	100	4
φ6R1*15*6*50*4T	6	1	15	6	50	4
φ6R1*25*6*75*4T	6	1	25	6	75	4
φ6R1*30*6*100*4T	6	1	30	6	100	4
φ8R0.5*20*8*60*4T	8	0.5	20	8	60	4
φ8R0.5*25*8*75*4T	8	0.5	25	8	75	4
φ8R0.5*35*8*100*4T	8	0.5	35	8	100	4
φ8R1*20*8*60*4T	8	1	20	8	60	4
φ8R1*25*8*75*4T	8	1	25	8	75	4
φ8R1*35*8*100*4T	8	1	35	8	100	4
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R0.5*40*10*100*4T	10	0.5	40	10	100	4
φ10R0.5*25*10*75*4T	10	0.5	25	10	75	4
φ10R1*40*10*100*4T	10	1	40	10	100	4
φ12R0.5*30*12*75*4T	12	0.5	30	12	75	4
φ12R0.5*45*12*100*4T	12	0.5	45	12	100	4
φ12R1*30*12*75*4T	12	1	30	12	75	4
φ12R1*45*12*100*4T	12	1	45	12	100	4

DIGITAL VERNIER CALLIPERS



ROLLING TOOLS

DRILLS



REAMER



FACTORY FOR END MILLS



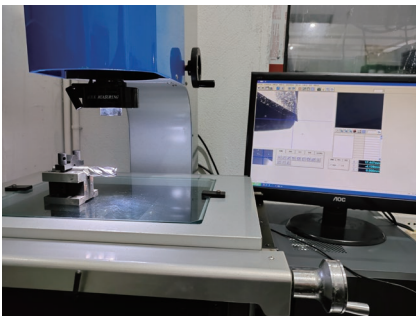
FACROTY FOR TAPS



SURFACE PASSIVATION



SURFACE COATING PROCESS



EDGE DETECTION



STORAGE

Rapid customization

Rapid customization process for non-standard tools



Customer requirements



Scheme confirmation



Products manufacturing



Quality control



On-site service

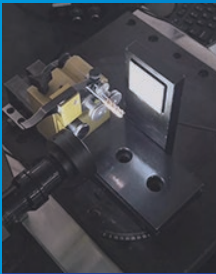


Customer acceptance



Factory processing operation

Triple tests for all products, ensuring that customers receive the same quality milling cutters with stable use.



Runout gaging



Profile gaging



Appearance check

1

Raw
material test

2

Fine
grinding

3

Offset
treatment

4

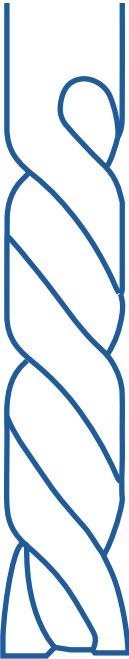
Grinding and
molding

5

Blade
coating

6

Inspection
and storage



MingHong

Product Manual

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