



浙江鸣鸿精密技术有限公司
Zhejiang MingHong Precision Co. Ltd

CUTTING TOOLS CATELOGE

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MingHong

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Zhejiang MingHong Precision Co. Ltd

CUTTING TOOLS CATELOGE

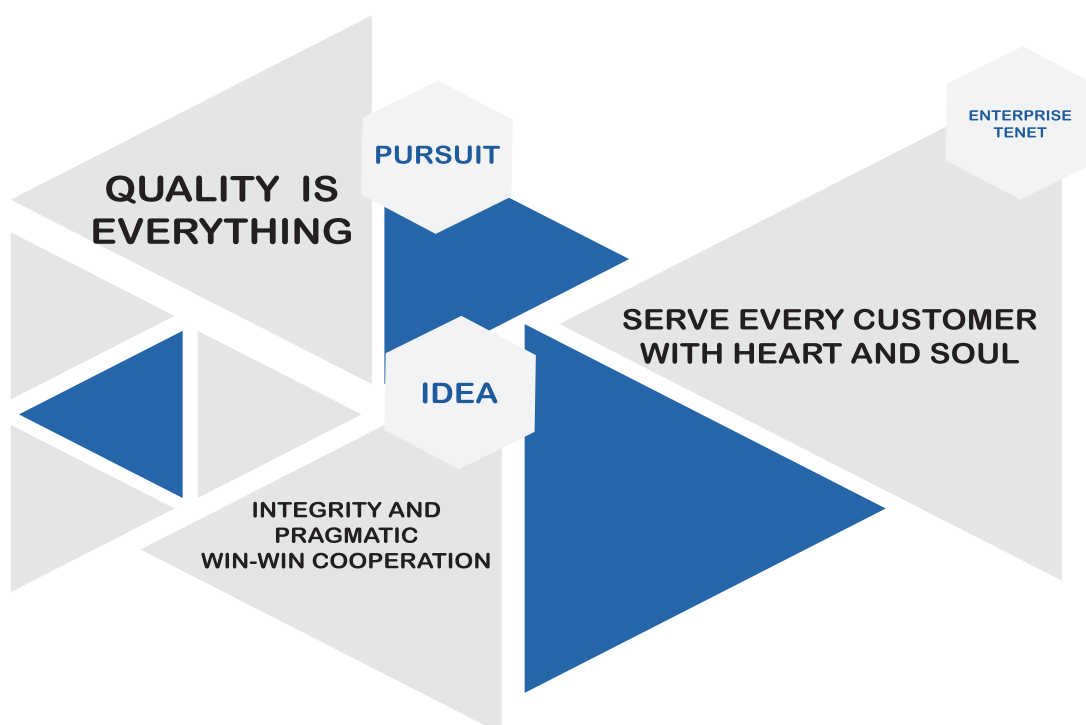
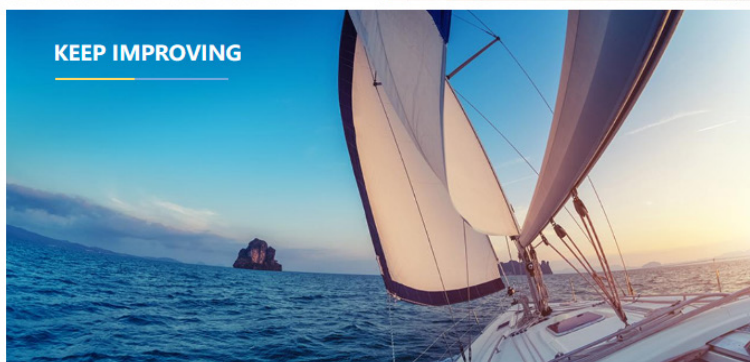
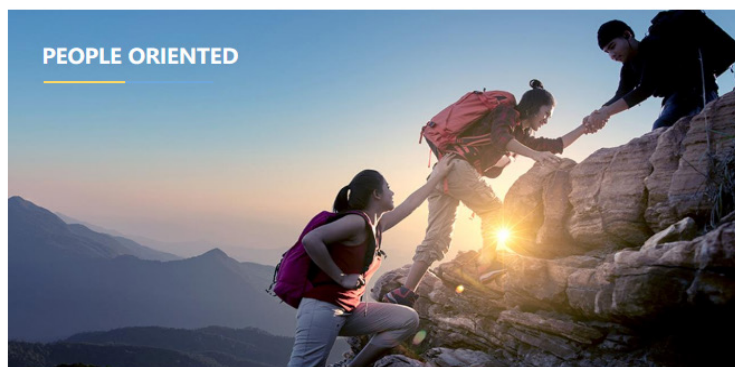


ZHEJIANG MINGHONG PRECISION TECHNOLOGY CO., LTD



浙江鸣鸿精密技术有限公司
Zhejiang MingHong Precision Co. Ltd

CORE VALUES



ABOUT MINGHONG

Zhejiang Minghong Precision Technology Co., Ltd. is a high-tech enterprise integrating independent research and development and production of high-precision cutting tools, headquartered in Linping District, Hangzhou City, Zhejiang Province, China.

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, the company officially launched the factory direct sales business to provide global customers with overall solutions for precision cutting tools.

The company's products are widely used in 3C consumer electronics, molds, graphite, automobiles, medical equipment and other processing and manufacturing fields. Customers are located in China, South Korea, Japan, Russia and other countries and regions, and strive to build a dedicated, professional and dedicated modern enterprise.

All the staff of the company adhere to the tenet of strict requirements and innovation, pay attention to every commitment, focus on every detail, keep improving, produce excellent products, and win unanimous praise from many customers.



ISO9001 Certification

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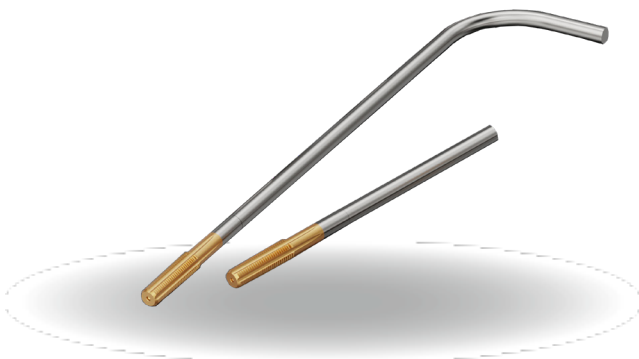
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01

HSS MILL



**HSS GOST
MILLS**

P01~P07



**HSS DIN
MILLS**

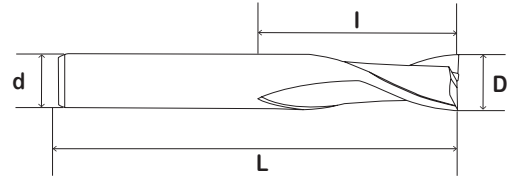
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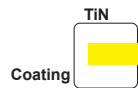
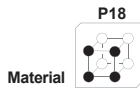
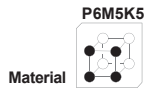
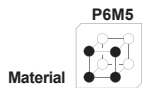
**HSS OTHER
MILLS**

P12~P18

HSS GOST straight shank end mills 2 flutes



Available:



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

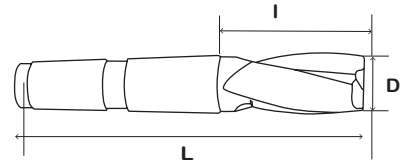
HSS MILL

CARBIDE MILL

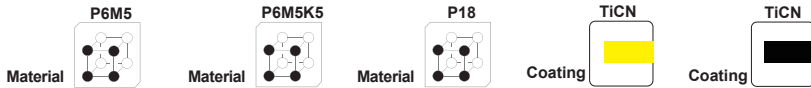
HSS TAP

OTHER TOOL

HSS GOST taper shank end mills 2 flutes

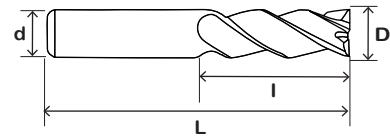


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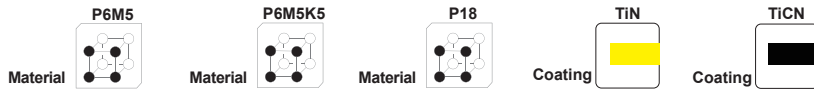


Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Slots	Shank Type
D*I*d*L*KM	D(mm)	I(mm)	d (mm)	F	KM
8*11*81*2F*KM1	8	11	81	2	KM1
10*13*83*2F*KM1	10	13	83	2	KM1
12*16*86*2F*KM1	12	16	86	2	KM1
12*16*101*2F*KM2	12	16	101	2	KM2
14*16*86*2F*KM1	14	16	86	2	KM1
14*16*101*2F*KM2	14	16	101	2	KM2
16*19*104*2F*KM2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

HSS GOST straight shank end mills 3-6 flutes



Available:



Art. Number D* ϕ *L*F	Cutting Dia. D(mm)	Cutting Length l(mm)	Shank Dia. d (mm)	Total Length L (mm)	Slots F
2*7*2*39	2	7	2	39	3~4
2*7*4*39	2	7	4	39	3~4
2.5*8*2.5*40	2.5	8	2.5	40	3~4
2.5*8*4*40	2.5	8	4	40	3~4
3*8*3*40	3	8	3	40	3~4
3*8*4*40	3	8	4	40	3~4
4*11*4*43	4	11	4	43	3~4
5*13*5*47	5	13	5	47	3~4
5*13*6*57	5	13	6	57	3~4
6*13*6*57	6	13	6	57	3~4
7*16*7*60	7	16	7	60	3~4
7*16*8*60	7	16	8	60	3~4
8*19*8*63	8	19	8	63	3~4
9*19*9*69	9	19	9	69	3~4
9*19*10*69	9	19	10	69	3~4
10*22*10*72	10	22	10	72	3~4
11*22*12*79	11	22	12	79	3~4
12*26*12*83	12	26	12	83	3~4
13*26*12*83	13	26	12	83	3~4
14*26*12*83	14	26	12	83	3~4
14*26*14*83	14	26	14	83	3~4
16*32*16*92	16	32	16	92	3~5
18*32*16*92	18	32	16	92	3~5
18*32*18*92	18	32	18	92	3~5
20*38*20*104	20	38	20	104	3~6
22*38*20*104	22	38	20	104	3~6
24*45*20*121	24	45	20	121	3~6
24*45*25*121	24	45	25	121	3~6
25*45*20*121	25	45	20	121	3~6
25*45*25*121	25	45	25	121	3~6
28*45*20*121	28	45	20	121	3~6

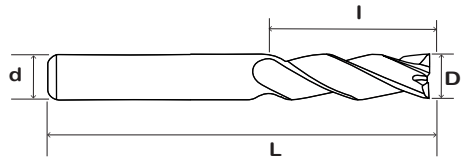
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS GOST lengthened end mills 3-6 flutes



3 Flutes



4 Flutes



5 Flutes



6 Flutes



Helix



Available:



P6M5



P6M5K5



P18



TIN



TiCN

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

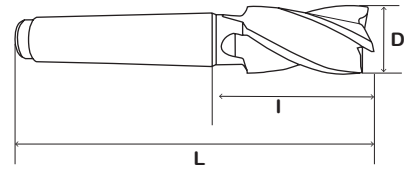
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS GOST taper shank end mills 3-6 flutes



3 Flutes



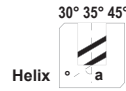
4 Flutes



5 Flutes



6 Flutes



Helix

Available:



P6M5

Material



P6M5K5

Material



P18

Material



TiN

Coating



TiCN

Coating

Art. Number D* Φ L*KM*F	Cutting Dia. D(mm)	Cutting Length l(mm)	Total Length L (mm)	Slots F	Shank Type KM
10*22*92*KM1	10	22	92	3~4	KM1
12*26*96*KM1	12	26	96	3~4	KM1
12*26*111*KM2	12	26	111	3~4	KM2
14*26*96*KM1	14	26	96	3~4	KM1
14*26*111*KM2	14	26	111	3~4	KM2
16*32*117*KM2	16	32	117	3~4	KM2
18*32*117*KM2	18	32	117	3~4	KM2
20*38*123*KM2	20	38	123	3~6	KM2
20*38*140*KM3	20	38	140	3~6	KM3
22*38*123*KM2	22	38	123	3~6	KM2
22*38*140*KM3	22	38	140	3~6	KM3
24*45*147*KM3	24	45	147	3~6	KM3
25*45*147*KM3	25	45	147	3~6	KM3
28*45*147*KM3	28	45	147	3~6	KM3
30*53*155*KM3	30	53	155	3~6	KM3
30*53*178*KM4	30	53	178	3~6	KM4
32*53*155*KM3	32	53	155	3~6	KM3
32*53*178*KM4	32	53	178	3~6	KM4
36*53*155*KM3	36	53	155	3~6	KM3
36*53*178*KM4	36	53	178	3~6	KM4
40*63*188*KM4	40	63	188	3~6	KM4
40*63*221*KM5	40	63	221	3~6	KM5
42*63*188*KM4	42	63	188	3~6	KM4
45*63*188*KM4	45	63	188	3~6	KM4
45*63*221*KM5	45	63	221	3~6	KM5
48*75*200*KM4	48	75	200	3~6	KM4
50*75*200*KM4	50	75	200	3~8	KM4
50*75*233*KM5	50	75	233	3~8	KM5
56*75*200*KM4	56	75	200	3~8	KM4
56*75*233*KM5	56	75	233	3~8	KM5
60*90*248*KM5	60	90	248	3~8	KM5
63*90*248*KM5	63	90	248	3~8	KM5

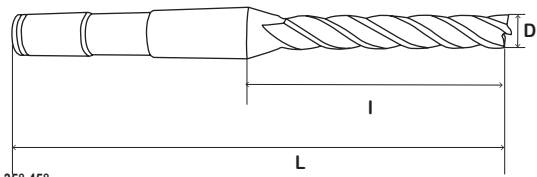
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS GOST taper shank lengthened end mill 3-6 flutes



3 Flutes



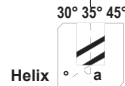
4 Flutes



5 Flutes



6 Flutes



Helix

Available:



P6M5

Material



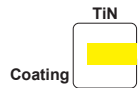
P6M5K5

Material



P18

Material



TIN

Coating



TiCN

Coating

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

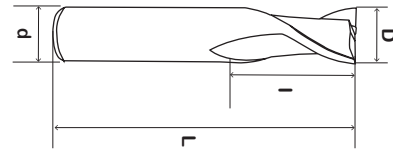
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS DIN327 end mills 2 flutes



Available:

HSS-6542

HSS-M35

HSS-M42

TiN

TiCN

Material



Material



Material



Coating



Coating



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

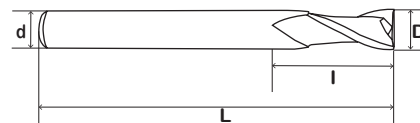
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS DIN327 lengthened end mills 2 flutes



Available:

HSS-6542

HSS-M35

HSS-M42

TIN

TiCN

Material

Material

Material

Coating

Coating

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

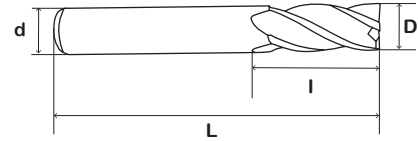
HSS MILL

CARBIDE MILL

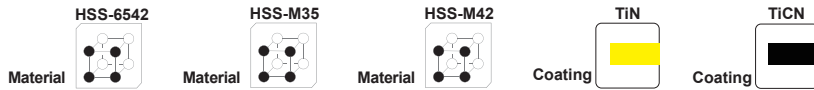
HSS TAP

OTHER TOOL

HSS DIN844 end mills 3-6 flutes



Available:



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

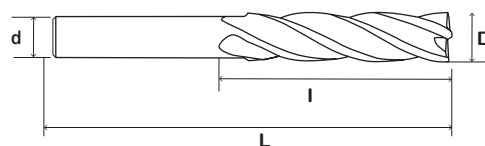
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS DIN844 lengthened end mills 3-6 flutes



4 Flutes



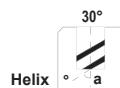
3 Flutes



5 Flutes



6 Flutes



Helix

Available:

HSS-6542



Material

HSS-M35



Material

HSS-M42



Material

TIN



Coating

TiCN



Coating

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

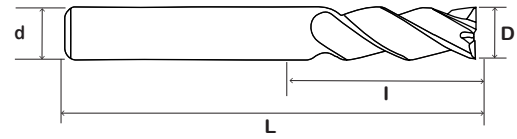
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS Straight shank end mills for aluminum 2-3 flutes



Available:

HSS-6542

HSS-M35

HSS-M42

Material



Material



Material



Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
2*7*6*51	2	7	6	51	2~3
2*10*6*54	2	10	6	54	2~3
3*8*3*36	3	8	3	36	2~3
3*8*6*52	3	8	6	52	2~3
3*12*6*56	3	12	6	56	2~3
4*11*4*43	4	11	4	43	2~3
4*11*6*55	4	11	6	55	2~3
4*19*6*63	4	19	6	63	2~3
5*13*5*47	5	13	5	47	2~3
5*13*6*57	5	13	6	57	2~3
5*24*6*68	5	24	6	68	2~3
6*13*6*57	6	13	6	57	2~3
6*16*6*52	6	16	6	52	2~3
6*24*6*68	6	24	6	68	2~3
8*19*8*59	8	19	8	59	2~3
8*38*8*78	8	38	8	78	2~3
8*19*10*69	8	19	10	69	2~3
8*38*10*88	8	38	10	88	2~3
10*22*10*72	10	22	10	72	2~3
10*45*10*95	10	45	10	95	2~3
12*26*12*83	12	26	12	83	2~3
12*53*12*110	12	53	12	110	2~3
15*26*12*83	15	26	12	83	2~3
15*53*12*110	15	53	12	110	2~3
16*32*16*92	16	32	16	92	2~3
16*63*16*123	16	63	16	123	2~3
18*32*16*92	18	32	16	92	2~3
18*63*16*123	18	63	16	123	2~3
20*38*20*104	20	38	20	104	2~3
20*75*20*141	20	75	20	141	2~3

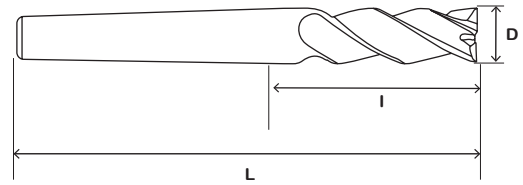
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS Taper shank end mills for aluminum 2-3 flutes



Available:

HSS-6542

HSS-M35

HSS-M42

Material

Material

Material

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

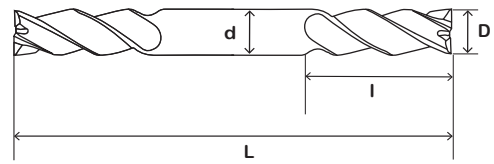
HSS MILL

CARBIDE MILL

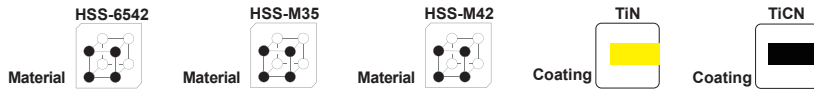
HSS TAP

OTHER TOOL

HSS Double-head end mills 3-4 flutes



Available:



Art. Number D* <i>l</i> *d*L*F	Cutting Dia. D(mm)	Cutting Length <i>l</i> (mm)	Shank Dia. d (mm)	Total Length L (mm)	Slots F
3*10*3*45	3	10	3	45	3~4
3*10*6*50	3	10	6	50	3~4
4*15*4*55	4	15	4	55	3~4
4*15*6*60	4	15	6	60	3~4
4*18*6*75	4	18	6	75	3~4
5*14*5*65	5	14	5	65	3~4
5*14*6*65	5	14	6	65	3~4
5*20*6*80	5	20	6	80	3~4
6*15*6*65	6	15	6	65	3~4
6*18*6*65	6	18	6	65	3~4
6*20*6*80	6	20	6	80	3~4
7*20*8*80	7	20	8	80	3~4
8*20*8*80	8	20	8	80	3~4
9*20*10*80	9	20	10	80	3~4
10*20*10*80	10	20	10	80	3~4
10*25*10*100	10	25	10	100	3~4
12*20*12*80	12	20	12	80	3~4
12*26*12*100	12	26	12	100	3~4

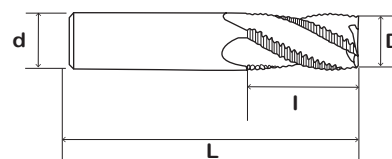
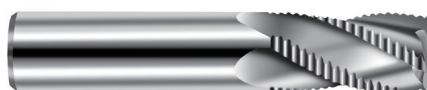
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS Roughing end mills 3-4 futes



3 Flutes



4 Flutes



5 Flutes



6 Flutes



Helix



Available:

HSS-6542



HSS-M35



HSS-M42



Material

Material

Material

Art. Number D*I*d*L*F	Cutting Dia. D(mm)	Cutting Length l(mm)	Shank Dia. d (mm)	Total Length L (mm)	Slots F
6*13*6*57	6	13	6	57	3~4
8*19*8*63	8	19	8	63	3~4
8*19*10*69	8	19	10	69	3~4
10*22*10*72	10	22	10	72	3~4
12*26*12*83	12	26	12	83	3~4
14*26*12*83	14	26	12	83	3~4
16*32*16*92	16	32	16	92	3~4
18*32*16*92	18	32	16	92	3~4
20*38*20*104	20	38	20	104	3~6
22*38*20*104	22	38	20	104	3~6
24*45*25*121	24	45	25	121	3~6
25*45*25*121	25	45	25	121	3~6
28*45*25*121	28	45	25	121	3~6
30*45*25*121	30	45	25	121	3~6
32*53*32*133	32	53	32	133	3~6
36*53*32*133	36	53	32	133	3~6
40*63*40*155	40	63	40	155	3~6
6*24*6*68	6	24	6	68	3~4
8*38*8*82	8	38	8	82	3~4
8*38*10*88	8	38	10	88	3~4
10*45*10*95	10	45	10	95	3~4
12*53*12*110	12	53	12	110	3~4
14*53*12*110	14	53	12	110	3~4
16*63*16*123	16	63	16	123	3~4
18*63*16*123	18	63	16	123	3~4
20*75*20*141	20	75	20	141	3~6
22*75*20*141	22	75	20	141	3~6
24*90*25*166	24	90	25	166	3~6
25*90*25*166	25	90	25	166	3~6
28*90*25*166	28	90	25	166	3~6
30*90*25*166	30	90	25	166	3~6
32*106*32*186	32	106	32	186	3~6
36*106*32*186	36	106	32	186	3~6
40*125*40*217	40	125	40	217	3~6

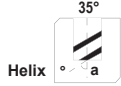
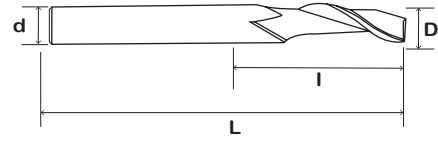
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS Single edge end mills



Available:

HSS-6542

HSS-M35

HSS-M42

TiN

TiCN

Material



Material



Material



Coating



Coating



Art. Number D* <i>l</i> *d*L*Z	Cutting Dia. D(mm)	Cutting Length <i>l</i> (mm)	Neck Length M (mm)	Shank Dia. d (mm)	Total Length L (mm)
3*10*6*1F	3	10	-	6	60
4*10*6*1F	4	10	-	6	60
5*12*6*1F	5	12	-	6	60
6*12*6*1F	6	12	-	6	60
3*12*8*1F	3	12	-	8	60
4*12*8*1F	4	12	-	8	60
5*14*8*1F	5	14	-	8	60
6*14*8*1F	6	14	-	8	60
7*14*8*1F	7	14	-	8	60
8*14*8*1F	8	14	-	8	60
4*14*8*1F	4	14	35	8	80
5*14*8*1F	5	14	35	8	80
6*14*8*1F	6	14	35	8	80
7*14*8*1F	7	14	35	8	80
8*14*8*1F	8	14	-	8	80
8*20*8*1F	8	20	-	8	80
4*16*8*1F	4	16	45	8	100
5*16*8*1F	5	16	45	8	100
6*16*8*1F	6	16	45	8	100
8*16*8*1F	8	16	-	8	100
8*30*8*1F	8	30	-	8	100
10*30*10*1F	10	30	-	10	100
12*30*12*1F	12	30	-	12	100
8*30*8*1F	8	30	-	8	120
10*30*10*1F	10	30	-	10	120
12*30*12*1F	12	30	-	12	120

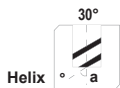
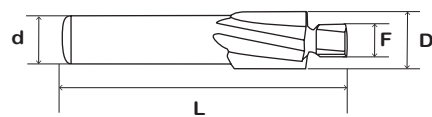
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HSS Countersunk head cutters



Available:

HSS-6542

HSS-M35

HSS-M42

TIN

TiCN

Material

Material

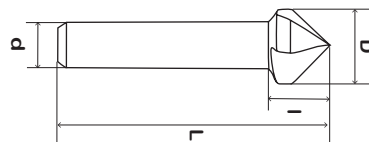
Material

Coating

Coating

Art. Number	Cutting Dia.	Guide Dia.	Shank Dia.	Total Length
D*I*d*L*F	D (mm)	F (mm)	d (mm)	L (mm)
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

HSS Chamfering cutters



Available:

HSS-6542

HSS-M35

HSS-M42

TIN

TiCN

Material

Material

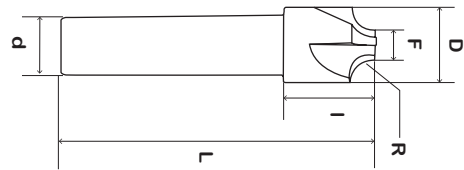
Material

Coating

Coating

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
6.3*8*6*50	6.3	8	6	50	1~3
8.4*10*6*50	8.4	10	6	50	1~3
10.4*11*8*50	10.4	11	8	50	1~3
12.4*12*8*56	12.4	12	8	56	1~3
16.5*15*10*60	16.5	15	10	60	1~3
20.5*18*10*63	20.5	18	10	63	1~3
25*20*10*67	25	20	10	67	1~3
28*20*12*67	28	20	12	67	1~3
31*22*12*71	31	22	12	71	1~3
35*25*12*74	35	25	12	74	1~3
40*28*12*82	40	28	12	82	1~3
45*35*12*92	45	35	12	92	1~3
50*34*16*100	50	34	16	100	1~3
60*38*20*115	60	38	20	115	1~3

HSS Internal R-type cutters



Available:

HSS-6542

HSS-M35

HSS-M42

TiN

TiCN

Material



Material



Material



Coating

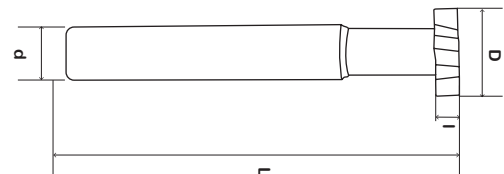


Coating



Art. Number	Corner Radius	Cutting Dia. ₁	Cutting Dia. ₂	Shank Dia.	Cutting Length	Total Length
D*I*d*L*F	R (mm)	F (mm)	D (mm)	d (mm)	l (mm)	L (mm)
R1*8*18*8*68	R1	6	8	8	18	68
R1.5*9*18*9*68	R1.5	6	9	9	18	68
R2*10*20*10*70	R2	6	10	10	20	70
R2.5*11*20*10*70	R2.5	6	11	10	20	70
R3*12*20*10*70	R3	6	12	10	20	70
R3.5*13*22*12*76	R3.5	6	13	12	22	76
R4*14*22*12*76	R4	6	14	12	22	76
R4.5*15*24*12*76	R4.5	6	15	12	24	76
R5*16*24*16*89	R5	6	16	16	24	89
R5.5*19*28*16*89	R5.5	8	19	16	28	89
R6*20*28*16*89	R6	8	20	16	28	89
R7*22*28*16*89	R7	8	22	16	28	89
R8*24*30*20*89	R8	8	24	20	30	89
R9*26*30*20*89	R9	8	26	20	30	89
R10*28*30*20*89	R10	8	28	20	30	89
R12*32*30*20*89	R12	8	32	20	30	89
R12.5*33*32*20*89	R12.5	8	33	20	32	89
R15*40*39*20*110	R15	8	40	20	39	110
R20*50*44*20*115	R20	8	50	20	44	115

HSS T-type end mills



Available:

HSS-6542

HSS-M35

HSS-M42

TiN

TiCN

Material



Material



Material



Coating



Coating



Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
8*6*60*6*6F	8	1-8	6	60	6
10*6*60*6*6F	10	1-8	6	60	6
12*8*60*6*6F	12	1-10	8	60	6
14*8*60*6*6F	14	1-10	8	60	6
16*10*60*6*6F	16	2-12	10	60	6
18*12*74*6*6F	18	3-12	12	74	6
20*12*90*6*6F	20	3-12	12	90	6
22*12*90*6*6F	22	3-12	12	90	6
25*12*90*8*8F	25	3-12	12	90	8
28*12*90*8*8F	28	3-12	12	90	8
30*16*90*8*8F	30	3-12	16	90	8
32*16*90*8*8F	32	3-12	16	90	8
35*16*90*8*8F	35	3-12	16	90	8
40*20*108*8*8F	40	3-12	20	108	8
42*20*112*8*8F	42	3-12	20	112	8
45*20*112*8*8F	45	3-12	20	112	8
50*20*124*10*10F	50	3-12	20	124	10

HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

02

CARBIDE MILL



CARBIDE MILLS HRC45

P20~P25



CARBIDE MILLS HRC55

P26~P34



CARBIDE MILLS HRC65

P36~P38



CARBIDE THREAD MILLS

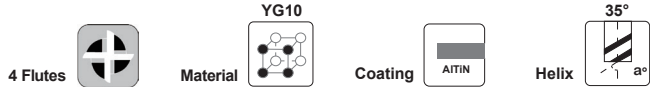
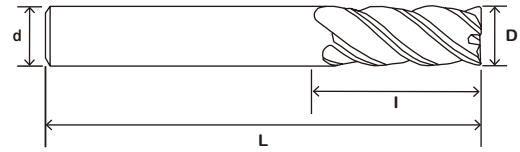
P39~P40



CARBIDE MILLS SUS&TUS

P42~P43

HRC45 Carbide square end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2.0*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3.0*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

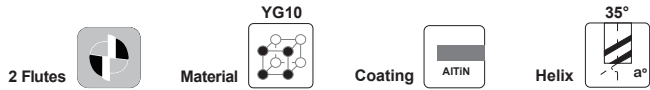
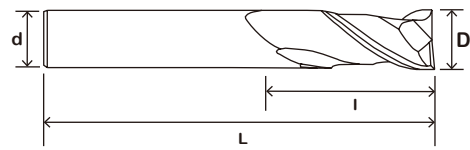
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC45 Carbide square end mills 2 flutes



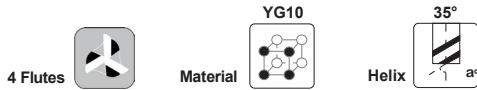
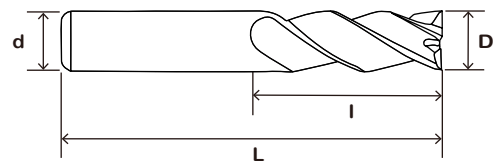
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*2F	1	3	4	50	4
1.5*4*4*50*2F	1.5	4	4	50	4
2.0*6*4*50*2F	2	6	4	50	4
2.5*8*4*50*2F	2.5	8	4	50	4
3.0*8*4*50*2F	3	8	4	50	4
3.5*10*4*50*2F	3.5	10	4	50	4
4*10*4*50*2F	4	10	4	50	4
4*15*4*75*2F	4	15	4	75	4
4*20*4*100*2F	4	20	4	100	4
5*13*5*50*2F	5	13	5	50	4
5*13*6*50*2F	5	13	6	50	4
6*15*6*50*2F	6	15	6	50	4
6*25*6*75*2F	6	25	6	75	4
6*30*6*100*2F	6	30	6	100	4
8*20*8*60*2F	8	20	8	60	4
8*25*8*75*2F	8	25	8	75	4
8*35*8*100*2F	8	35	8	100	4
10*25*10*75*2F	10	25	10	75	4
10*40*10*100*2F	10	40	10	100	4
12*30*12*75*2F	12	30	12	75	4
12*45*12*100*2F	12	45	12	100	4
14*35*14*80*2F	14	35	14	80	4
14*45*14*100*2F	14	45	14	100	4
16*45*16*100*2F	16	45	16	100	4
18*45*18*100*2F	18	45	18	100	4
20*45*20*100*2F	20	45	20	100	4
6*35*6*150*2F	6	35	6	150	4
8*50*8*150*2F	8	50	8	150	4
10*55*10*150*2F	10	55	10	150	4
12*60*12*150*2F	12	60	12	150	4
14*65*14*150*2F	14	60	14	150	4
16*70*16*150*2F	16	70	16	150	4
18*70*18*150*2F	18	70	18	150	4
20*70*20*150*2F	20	70	20	150	4
7*20*8*60*2F	7	20	8	60	4
9*20*10*75*2F	9	20	10	75	4
11*25*12*75*2F	11	25	12	75	4
13*40*14*100*2F	13	40	14	100	4
15*45*16*100*2F	15	45	16	100	4
4*20*4*150*2F	4	20	4	150	4
6*35*6*200*2F	6	35	6	200	4
8*50*8*200*2F	8	50	8	200	4
10*55*10*200*2F	10	55	10	200	4
12*60*12*200*2F	12	60	12	200	4
14*60*14*200*2F	14	60	14	200	4
16*70*16*200*2F	16	70	16	200	4
20*70*20*200*2F	20	70	20	200	4

HRC45 Carbide end mills for aluminum 3 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*3F	1	3	4	50	3
1.5*4.5*4*50*3F	1.5	4.5	4	50	3
2.0*6*4*50*3F	2	6	4	50	3
2.5*7*4*50*3F	2.5	7	4	50	3
3.0*9*4*50*3F	3	9	4	50	3
3.0*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

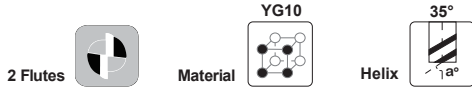
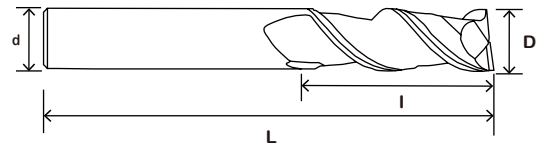
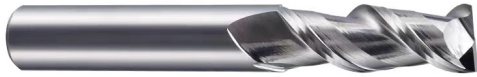
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC45 Carbide end mills for aluminum 2 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*2F	1	3	4	50	2
1.5*4.5*4*50*2F	1.5	4.5	4	50	2
2.0*6*4*50*2F	2	6	4	50	2
2.5*7*4*50*2F	2.5	7	4	50	2
3.0*9*3*50*2F	3	9	3	50	2
3.0*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

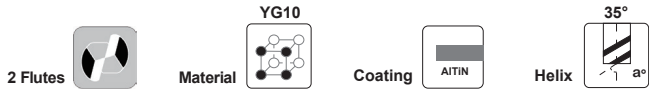
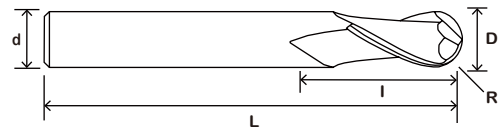
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC45 Carbide ball nose end mills 2 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	I(mm)	d (mm)	L (mm)	T
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

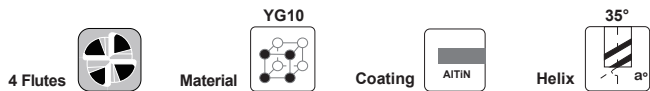
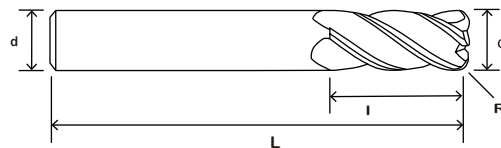
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC45 Carbide corner radius end mills 4 flutes



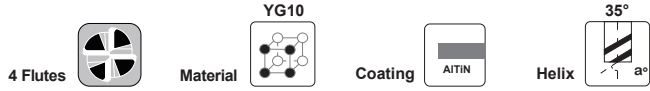
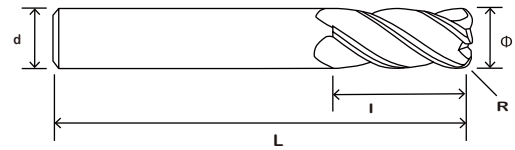
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Corner Radius	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	R(mm)	l(mm)	d (mm)	L (mm)	T
Φ1*0.2*3*4*50*4T	1	0.2	3	4	50	4
Φ1.5*0.2*4*4*50*4T	1.5	0.2	4	4	50	4
Φ2*0.2*6*4*50*4T	2	0.2	6	4	50	4
Φ3*0.2*8*4*50*4T	3	0.2	8	4	50	4
Φ4*0.2*11*4*50*4T	4	0.2	11	4	50	4
Φ4*0.2*15*4*75*4T	4	0.2	15	4	75	4
Φ6*0.2*15*6*50*4T	6	0.2	15	6	50	4
Φ2.5*0.2*7*4*50*4T	2.5	0.2	7	4	50	4
Φ3*0.2*8*3*50*4T	3	0.2	8	3	50	4
Φ4*0.2*20*4*100*4T	4	0.2	20	4	100	4
Φ6*0.2*20*6*75*4T	6	0.2	20	6	75	4
Φ6*0.2*30*6*100*4T	6	0.2	30	6	100	4
Φ8*0.2*20*8*60*4T	8	0.2	20	8	60	4
Φ8*0.2*30*8*100*4T	8	0.2	30	8	100	4
Φ8*0.2*25*8*75*4T	8	0.2	25	8	75	4
Φ10*0.2*25*10*75*4T	10	0.2	25	10	75	4
Φ10*0.2*40*10*100*4T	10	0.2	40	10	100	4
Φ12*0.2*30*12*75*4T	12	0.2	30	12	75	4
Φ1.5*0.3*4*4*50*4T	1.5	0.3	4	4	50	4
Φ2*0.3*6*4*50*4T	2	0.3	6	4	50	4
Φ2.5*0.3*7*4*50*4T	2.5	0.3	7	4	50	4
Φ3*0.3*8*3*50*4T	3	0.3	8	3	50	4
Φ3*0.3*8*4*50*4T	3	0.3	8	4	50	4
Φ4*0.3*8*4*50*4T	4	0.3	8	4	50	4
Φ6*0.3*15*6*50*4T	6	0.3	15	6	50	4
Φ8*0.3*20*8*60*4T	8	0.3	20	8	60	4
Φ10*0.3*25*10*75*4T	10	0.3	25	10	75	4
Φ12*0.3*30*12*75*4T	12	0.3	30	12	75	4
Φ2*0.5*6*4*50*4T	2	0.5	6	4	50	4
Φ2.5*0.5*7*4*50*4T	2.5	0.5	7	4	50	4
Φ3*0.5*8*3*50*4T	3	0.5	8	3	50	4
Φ3*0.5*8*4*50*4T	3	0.5	8	4	50	4
Φ3*0.5*11*3*75*4T	3	0.5	11	3	75	4
Φ3*0.5*13*3*100*4T	3	0.5	13	3	100	4
Φ4*0.5*11*4*50*4T	4	0.5	11	4	50	4
Φ4*0.5*15*4*75*4T	4	0.5	15	4	75	4
Φ4*0.5*20*4*100*4T	4	0.5	20	4	100	4
Φ5*0.5*13*5*50*4T	5	0.5	13	5	50	4
Φ5*0.5*13*6*50*4T	5	0.5	13	6	50	4
Φ5*0.5*20*5*75*4T	5	0.5	20	5	75	4
Φ5*0.5*25*5*100*4T	5	0.5	25	5	100	4
Φ6*0.5*15*6*50*4T	6	0.5	15	6	50	4
Φ6*0.5*25*6*75*4T	6	0.5	25	6	75	4
Φ6*0.5*30*6*100*4T	6	0.5	30	6	100	4
Φ8*0.5*20*8*60*4T	8	0.5	20	8	60	4
Φ8*0.5*25*8*75*4T	8	0.5	25	8	75	4
Φ8*0.5*35*8*100*4T	8	0.5	35	8	100	4
Φ10*0.5*25*10*75*4T	10	0.5	25	10	75	4
Φ10*0.5*40*10*100*4T	10	0.5	40	10	100	4
Φ12*0.5*30*12*75*4T	12	0.5	30	12	75	4
Φ12*0.5*45*12*100*4T	12	0.5	45	12	100	4
Φ6*0.5*35*6*150*4T	6	0.5	35	6	150	4
Φ8*0.5*50*8*150*4T	8	0.5	50	8	150	4
Φ10*0.5*55*10*150*4T	10	0.5	55	10	150	4
Φ12*0.5*60*12*150*4T	12	0.5	60	12	150	4

HRC45 Carbide corner radius end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Corner Radius	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	R(mm)	I(mm)	d (mm)	L (mm)	T
Φ3*1*8*3*50*4T	3	1	8	3	50	4
Φ3*1*8*4*50*4T	3	1	8	4	50	4
Φ3*1*11*3*75*4T	3	1	11	3	75	4
Φ3*1*13*3*100*4T	3	1	13	3	100	4
Φ4*1*11*4*50*4T	4	1	11	4	50	4
Φ4*1*15*4*75*4T	4	1	15	4	75	4
Φ4*1*20*4*100*4T	4	1	20	4	100	4
Φ5*1*13*5*50*4T	5	1	13	5	50	4
Φ5*1*13*6*50*4T	5	1	13	6	50	4
Φ5*1*20*5*75*4T	5	1	20	5	75	4
Φ5*1*25*5*100*4T	5	1	25	5	100	4
Φ6*1*15*6*50*4T	6	1	15	6	50	4
Φ6*1*25*6*75*4T	6	1	25	6	75	4
Φ6*1*30*6*100*4T	6	1	30	6	100	4
Φ8*1*20*8*60*4T	8	1	20	8	60	4
Φ8*1*25*8*75*4T	8	1	25	8	75	4
Φ8*1*35*8*100*4T	8	1	35	8	100	4
Φ10*1*25*10*75*4T	10	1	25	10	75	4
Φ10*1*40*10*100*4T	10	1	40	10	100	4
Φ12*1*30*12*75*4T	12	1	30	12	75	4
Φ12*1*45*12*100*4T	12	1	45	12	100	4
Φ6*1*35*6*150*4T	6	1	35	6	150	4
Φ8*1*50*8*150*4T	8	1	50	8	150	4
Φ10*1*55*10*15*4T	10	1	55	10	15	4
Φ12*1*60*12*150*4T	12	1	60	12	150	4
Φ14*1*45*14*100*4T	14	1	45	14	100	4
Φ16*1*45*16*100*4T	16	1	45	16	100	4
Φ5*1.5*15*5*50*4T	5	1.5	15	5	50	4
Φ6*1.5*15*6*50*4T	6	1.5	15	6	50	4
Φ6*1.5*25*6*75*4T	6	1.5	25	6	75	4
Φ8*1.5*20*8*60*4T	8	1.5	20	8	60	4
Φ8*1.5*25*8*75*4T	8	1.5	25	8	75	4
Φ8*1.5*50*8*150*4T	8	1.5	50	8	150	4
Φ10*1.5*25*10*75*4T	10	1.5	25	10	75	4
Φ12*1.5*30*12*75*4T	12	1.5	30	12	75	4
Φ6*2*15*6*50*4T	6	2	15	6	50	4
Φ6*2*20*6*75*4T	6	2	20	6	75	4
Φ6*2.5*15*6*50*4T	6	2.5	15	6	50	4
Φ6*2*30*6*100*4T	6	2	30	6	100	4
Φ8*2*30*8*150*4T	8	2	30	8	150	4
Φ8*2*20*8*60*4T	8	2	20	8	60	4
Φ8*2*25*8*75*4T	8	2	25	8	75	4
Φ8*2*35*8*100*4T	8	2	35	8	100	4
Φ10*2*25*10*75*4T	10	2	25	10	75	4
Φ10*2*55*10*150*4T	10	2	55	10	150	4
Φ10*2*40*10*100*4T	10	2	40	10	100	4
Φ10*2.5*25*12*75*4T	10	2.5	25	12	75	4
Φ12*2*30*12*75*4T	12	2	30	12	75	75
Φ12*2*45*12*100*4T	12	2	45	12	100	100
Φ12*2*60*12*100*4T	12	2	60	12	100	100
Φ12*2.5*30*12*150*4T	12	2.5	30	12	150	150
Φ16*2.5*45*16*100*4T	16	2.5	45	16	100	100
Φ16*2*45*16*150*4T	16	2	45	16	150	150
Φ16*2*70*16*150*4T	16	2	70	6	150	150

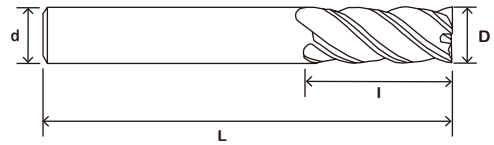
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide square end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	I(mm)	d (mm)	L (mm)	FF
1.0*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2.0*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3.0*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

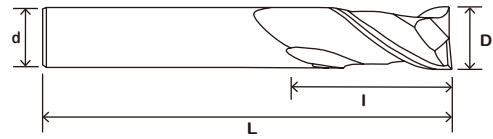
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide square end mills 2 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*2F	1	3	4	50	2
1.5*4*4*50*2F	1.5	4	4	50	2
2.0*6*4*50*2F	2	6	4	50	2
2.5*8*4*50*2F	2.5	8	4	50	2
3.0*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*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*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

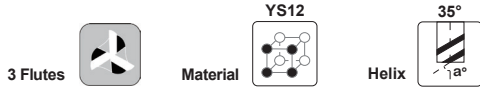
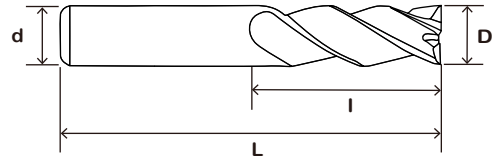
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide end mills for aluminum 3 flutes



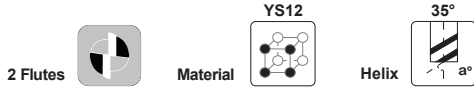
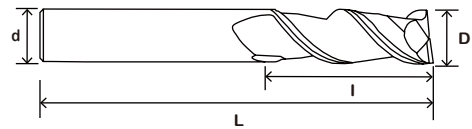
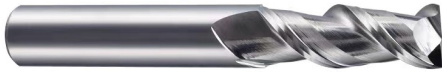
Material Discription

P	M	K	N	S	H
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper
~HB225	~HB225-325	~HRC30-40			
●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*2F	1	3	4	50	3
1.5*4*4*50*2F	1.5	4	4	50	3
2.0*6*4*50*2F	2	6	4	50	3
2.5*8*4*50*2F	2.5	8	4	50	3
3.0*8*4*50*2F	3	8	4	50	3
3.5*10*4*50*2F	3.5	10	4	50	3
4*10*4*50*2F	4	10	4	50	3
4*15*4*75*2F	4	15	4	75	3
4*20*4*100*2F	4	20	4	100	3
5*13*5*50*2F	5	13	5	50	3
5*13*6*50*2F	5	13	6	50	3
6*15*6*50*2F	6	15	6	50	3
6*25*6*75*2F	6	25	6	75	3
6*30*6*100*2F	6	30	6	100	3
8*20*8*60*2F	8	20	8	60	3
8*25*8*75*2F	8	25	8	75	3
8*35*8*100*2F	8	35	8	100	3
10*25*10*75*2F	10	25	10	75	3
10*40*10*100*2F	10	40	10	100	3
12*30*12*75*2F	12	30	12	75	3
12*45*12*100*2F	12	45	12	100	3
14*35*14*80*2F	14	35	14	80	3
14*45*14*100*2F	14	45	14	100	3
16*45*16*100*2F	16	45	16	100	3
18*45*18*100*2F	18	45	18	100	3
20*45*20*100*2F	20	45	20	100	3
6*35*6*150*2F	6	35	6	150	3
8*50*8*150*2F	8	50	8	150	3
10*55*10*150*2F	10	55	10	150	3
12*60*12*150*2F	12	60	12	150	3
14*65*14*150*2F	14	65	14	150	3
16*70*16*150*2F	16	70	16	150	3
18*70*18*150*2F	18	70	18	150	3
20*70*20*150*2F	20	70	20	150	3
7*20*8*60*2F	7	20	8	60	3
9*20*10*75*2F	9	20	10	75	3
11*25*12*75*2F	11	25	12	75	3
13*40*14*100*2F	13	40	14	100	3
15*45*16*100*2F	15	45	16	100	3
4*20*4*150*2F	4	20	4	150	3
6*35*6*200*2F	6	35	6	200	3
8*50*8*200*2F	8	50	8	200	3
10*55*10*200*2F	10	55	10	200	3
12*60*12*200*2F	12	60	12	200	3
14*60*14*200*2F	14	60	14	200	3
16*70*16*200*2F	16	70	16	200	3
20*70*20*200*2F	20	70	20	200	3

HRC55 Carbide end mills for aluminum 2 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel		High Hardened Steel
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	I(mm)	d (mm)	L (mm)	F
1.0*3*4*50*2F	1	3	4	50	2
1.5*4.5*4*50*2F	1.5	4.5	4	50	2
2.0*6*4*50*2F	2	6	4	50	2
2.5*7*4*50*2F	2.5	7	4	50	2
3.0*9*3*50*2F	3	9	3	50	2
3.0*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
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

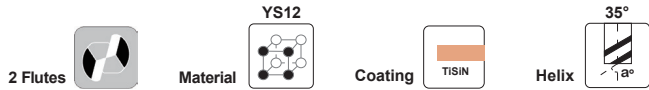
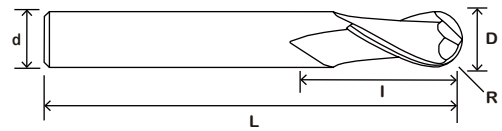
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide ball nose end mills 2 flutes



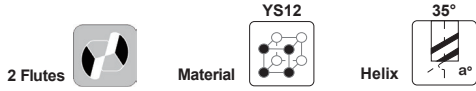
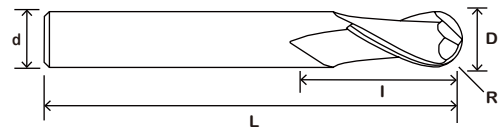
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	I(mm)	d (mm)	L (mm)	T
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
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
15*30*16*100*2T	15	30	16	100	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

HRC55 Carbide ball nose end mills for aluminum 2 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	I(mm)	d (mm)	L (mm)	T
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

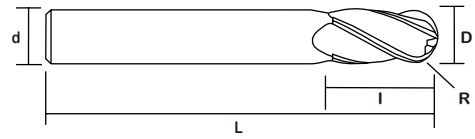
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide ball nose end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D* ϕ *L*T	D(mm)	l(mm)	d (mm)	L (mm)	T
R0.5*2*4*50*4T	1	2	4	50	4
R0.75*3*4*50*4T	1.5	3	4	50	4
R1*4*4*50*4T	2	4	4	50	4
R1.25*5*4*50*4T	2.5	5	4	50	4
R1.5*6*3*50*4T	3	6	3	50	4
R1.5*6*4*50*4T	3	6	4	50	4
R1.75*7*4*50*4T	3.5	7	4	50	4
R2*8*4*50*4T	4	8	4	50	4
R2*8*4*75*4T	4	8	4	75	4
R2.5*10*5*50*4T	5	10	5	50	4
R2.5*10*6*50*4T	5	10	6	50	4
R3*12*6*50*4T	6	12	6	50	4
R3*12*6*75*4T	6	12	6	75	4
R3*12*6*100*4T	6	12	6	100	4
R4*16*8*60*4T	8	16	8	60	4
R4*16*8*75*4T	8	16	8	75	4
R4*16*8*100*4T	8	16	8	100	4
R5*20*10*75*4T	10	20	10	75	4
R5*20*10*100*4T	10	20	10	100	4
R6*24*12*75*4T	12	24	12	75	4
R6*24*12*100*4T	12	24	12	100	4
R7*28*14*80*4T	14	28	14	80	4
R7*28*14*100*4T	14	28	14	100	4
R8*32*16*100*4T	16	32	16	100	4
R9*36*18*100*4T	18	36	18	100	4
R10*40*20*100*4T	20	40	20	100	4
R3*12*6*150*4T	6	12	6	150	4
R4*16*8*150*4T	8	16	8	150	4
R5*20*10*150*4T	10	20	10	150	4
R6*24*12*150*4T	12	24	12	150	4
R7*28*14*150*4T	14	28	14	150	4
R8*32*16*150*4T	16	32	16	150	4
R9*36*18*150*4T	18	36	18	150	4
R10*40*20*150*4T	20	40	20	150	4

HRC55 Carbide corner radius end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Corner Radius	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	R(mm)	I(mm)	d (mm)	L (mm)	T
Φ1*0.2*3*4*50*4T	1	0.2	3	4	50	4
Φ1.5*0.2*4*4*50*4T	1.5	0.2	4	4	50	4
Φ2*0.2*6*4*50*4T	2	0.2	6	4	50	4
Φ3*0.2*8*4*50*4T	3	0.2	8	4	50	4
Φ4*0.2*11*4*50*4T	4	0.2	11	4	50	4
Φ4*0.2*15*4*75*4T	4	0.2	15	4	75	4
Φ6*0.2*15*6*50*4T	6	0.2	15	6	50	4
Φ2.5*0.2*7*4*50*4T	2.5	0.2	7	4	50	4
Φ3*0.2*8*3*50*4T	3	0.2	8	3	50	4
Φ4*0.2*20*4*100*4T	4	0.2	20	4	100	4
Φ6*0.2*20*6*75*4T	6	0.2	20	6	75	4
Φ6*0.2*30*6*100*4T	6	0.2	30	6	100	4
Φ8*0.2*20*8*60*4T	8	0.2	20	8	60	4
Φ8*0.2*30*8*100*4T	8	0.2	30	8	100	4
Φ8*0.2*25*8*75*4T	8	0.2	25	8	75	4
Φ10*0.2*25*10*75*4T	10	0.2	25	10	75	4
Φ10*0.2*40*10*100*4T	10	0.2	40	10	100	4
Φ12*0.2*30*12*75*4T	12	0.2	30	12	75	4
Φ1.5*0.3*4*4*50*4T	1.5	0.3	4	4	50	4
Φ2*0.3*6*4*50*4T	2	0.3	6	4	50	4
Φ2.5*0.3*7*4*50*4T	2.5	0.3	7	4	50	4
Φ3*0.3*8*3*50*4T	3	0.3	8	3	50	4
Φ3*0.3*8*4*50*4T	3	0.3	8	4	50	4
Φ4*0.3*8*4*50*4T	4	0.3	8	4	50	4
Φ6*0.3*15*6*50*4T	6	0.3	15	6	50	4
Φ8*0.3*20*8*60*4T	8	0.3	20	8	60	4
Φ10*0.3*25*10*75*4T	10	0.3	25	10	75	4
Φ12*0.3*30*12*75*4T	12	0.3	30	12	75	4
Φ2*0.5*6*4*50*4T	2	0.5	6	4	50	4
Φ2.5*0.5*7*4*50*4T	2.5	0.5	7	4	50	4
Φ3*0.5*8*3*50*4T	3	0.5	8	3	50	4
Φ3*0.5*8*4*50*4T	3	0.5	8	4	50	4
Φ3*0.5*11*3*75*4T	3	0.5	11	3	75	4
Φ3*0.5*13*3*100*4T	3	0.5	13	3	100	4
Φ4*0.5*11*4*50*4T	4	0.5	11	4	50	4
Φ4*0.5*15*4*75*4T	4	0.5	15	4	75	4
Φ4*0.5*20*4*100*4T	4	0.5	20	4	100	4
Φ5*0.5*13*5*50*4T	5	0.5	13	5	50	4
Φ5*0.5*13*6*50*4T	5	0.5	13	6	50	4
Φ5*0.5*20*5*75*4T	5	0.5	20	5	75	4
Φ5*0.5*25*5*100*4T	5	0.5	25	5	100	4
Φ6*0.5*15*6*50*4T	6	0.5	15	6	50	4
Φ6*0.5*25*6*75*4T	6	0.5	25	6	75	4
Φ6*0.5*30*6*100*4T	6	0.5	30	6	100	4
Φ8*0.5*20*8*60*4T	8	0.5	20	8	60	4
Φ8*0.5*25*8*75*4T	8	0.5	25	8	75	4
Φ8*0.5*35*8*100*4T	8	0.5	35	8	100	4
Φ10*0.5*25*10*75*4T	10	0.5	25	10	75	4
Φ10*0.5*40*10*100*4T	10	0.5	40	10	100	4
Φ12*0.5*30*12*75*4T	12	0.5	30	12	75	4
Φ12*0.5*45*12*100*4T	12	0.5	45	12	100	4
Φ6*0.5*35*6*150*4T	6	0.5	35	6	150	4
Φ8*0.5*50*8*150*4T	8	0.5	50	8	150	4
Φ10*0.5*55*10*150*4T	10	0.5	55	10	150	4
Φ12*0.5*60*12*150*4T	12	0.5	60	12	150	4

HSS MILL

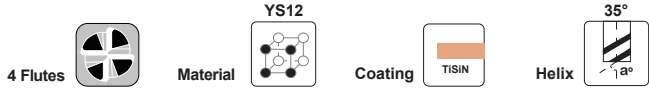
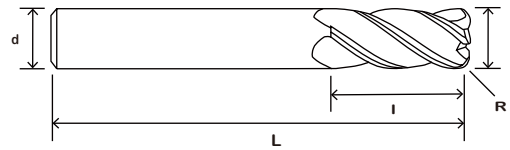
CARBIDE MILL

HSS TAP

OTHER TOOL

HRC55 Carbide corner radius end mills 4 flutes

D



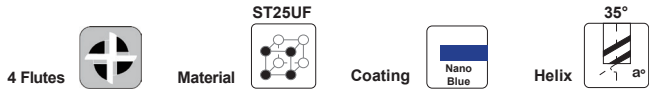
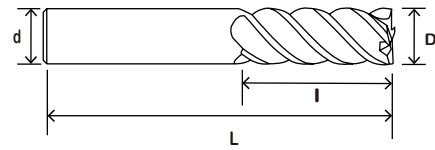
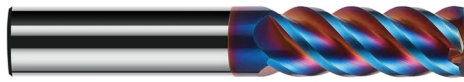
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Corner Radius	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	R(mm)	I(mm)	d (mm)	L (mm)	T
Φ3*1*8*3*50*4T	3	1	8	3	50	4
Φ3*1*8*4*50*4T	3	1	8	4	50	4
Φ3*1*11*3*75*4T	3	1	11	3	75	4
Φ3*1*13*3*100*4T	3	1	13	3	100	4
Φ4*1*11*4*50*4T	4	1	11	4	50	4
Φ4*1*15*4*75*4T	4	1	15	4	75	4
Φ4*1*20*4*100*4T	4	1	20	4	100	4
Φ5*1*13*5*50*4T	5	1	13	5	50	4
Φ5*1*13*6*50*4T	5	1	13	6	50	4
Φ5*1*20*5*75*4T	5	1	20	5	75	4
Φ5*1*25*5*100*4T	5	1	25	5	100	4
Φ6*1*15*6*50*4T	6	1	15	6	50	4
Φ6*1*25*6*75*4T	6	1	25	6	75	4
Φ6*1*30*6*100*4T	6	1	30	6	100	4
Φ8*1*20*8*60*4T	8	1	20	8	60	4
Φ8*1*25*8*75*4T	8	1	25	8	75	4
Φ8*1*35*8*100*4T	8	1	35	8	100	4
Φ10*1*25*10*75*4T	10	1	25	10	75	4
Φ10*1*40*10*100*4T	10	1	40	10	100	4
Φ12*1*30*12*75*4T	12	1	30	12	75	4
Φ12*1*45*12*100*4T	12	1	45	12	100	4
Φ6*1*35*6*150*4T	6	1	35	6	150	4
Φ8*1*50*8*150*4T	8	1	50	8	150	4
Φ10*1*55*10*15*4T	10	1	55	10	15	4
Φ12*1*60*12*150*4T	12	1	60	12	150	4
Φ14*1*45*14*100*4T	14	1	45	14	100	4
Φ16*1*45*16*100*4T	16	1	45	16	100	4
Φ5*1.5*15*5*50*4T	5	1.5	15	5	50	4
Φ6*1.5*15*6*50*4T	6	1.5	15	6	50	4
Φ6*1.5*25*6*75*4T	6	1.5	25	6	75	4
Φ8*1.5*20*8*60*4T	8	1.5	20	8	60	4
Φ8*1.5*25*8*75*4T	8	1.5	25	8	75	4
Φ8*1.5*50*8*150*4T	8	1.5	50	8	150	4
Φ10*1.5*25*10*75*4T	10	1.5	25	10	75	4
Φ12*1.5*30*12*75*4T	12	1.5	30	12	75	4
Φ6*2*15*6*50*4T	6	2	15	6	50	4
Φ6*2*20*6*75*4T	6	2	20	6	75	4
Φ6*2.5*15*6*50*4T	6	2.5	15	6	50	4
Φ6*2*30*6*100*4T	6	2	30	6	100	4
Φ8*2*30*8*150*4T	8	2	30	8	150	4
Φ8*2*20*8*60*4T	8	2	20	8	60	4
Φ8*2*25*8*75*4T	8	2	25	8	75	4
Φ8*2*35*8*100*4T	8	2	35	8	100	4
Φ10*2*25*10*75*4T	10	2	25	10	75	4
Φ10*2*55*10*150*4T	10	2	55	10	150	4
Φ10*2*40*10*100*4T	10	2	40	10	100	4
Φ10*2.5*25*12*75*4T	10	2.5	25	12	75	4
Φ12*2*30*12*75*4T	12	2	30	12	75	4
Φ12*2*45*12*100*4T	12	2	45	12	100	4
Φ12*2*60*12*100*4T	12	2	60	12	100	4
Φ12*2.5*30*12*150*4T	12	2.5	30	12	150	4
Φ16*2.5*45*16*100*4T	16	2.5	45	16	100	4
Φ16*2*45*16*150*4T	16	2	45	16	150	4
Φ16*2*70*6*150*4T	16	2	70	6	150	4

HRC65 Carbide square end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
○	○	○	○	●	○	●	●	●	●	●	○

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*F	D(mm)	l(mm)	d (mm)	L (mm)	F
1.0*3*4*50*4F	1	3	4	50	4
1.5*4*4*50*4F	1.5	4	4	50	4
2.0*6*4*50*4F	2	6	4	50	4
2.5*8*4*50*4F	2.5	8	4	50	4
3.0*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

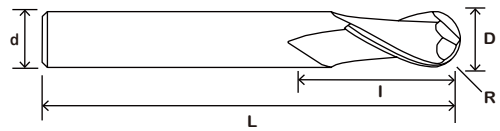
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

HRC65 Carbide ball nose end mills 2 flutes



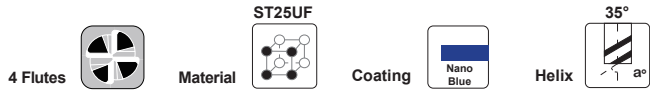
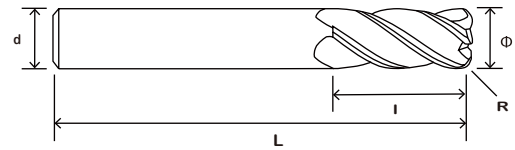
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
○	○	○	○	●	○	●	●	●	●	●	○

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	I(mm)	d (mm)	L (mm)	T
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
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
R8*32*16*200*2T	16	32	16	200	2
R10*40*20*200*2T	20	40	20	200	2

HRC65 Carbide square end mills 4 flutes



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
○	○	○	○	●	○	●	●	●	●	●	○

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Corner Radius	Cutting Length	Shank Dia.	Total Length	Slots
D*I*d*L*T	D(mm)	R(mm)	I(mm)	d (mm)	L (mm)	T
Φ1*0.2*3*4*50*4T	1	0.2	3	4	50	4
Φ1.5*0.2*4*4*50*4T	1.5	0.2	4	4	50	4
Φ2*0.2*6*4*50*4T	2	0.2	6	4	50	4
Φ2*0.5*6*4*50*4T	2	0.5	6	4	50	4
Φ2.5*0.2*7*4*50*4T	2.5	0.2	7	4	50	4
Φ3*0.2*8*4*50*4T	3	0.2	8	4	50	4
Φ3*0.5*8*4*50*4T	3	0.5	8	4	50	4
Φ4*0.2*11*4*50*4T	4	0.2	11	4	50	4
Φ4*0.5*11*4*50*4T	4	0.5	11	4	50	4
Φ4*0.5*15*4*75*4T	4	0.5	15	4	75	4
Φ4*0.5*20*4*100*4T	4	0.5	20	4	100	4
Φ3*1*8*4*50*4T	3	1	8	4	50	4
Φ4*1*11*4*50*4T	4	1	11	4	50	4
Φ4*1*15*4*75*4T	4	1	15	4	75	4
Φ4*1*20*4*100*4T	4	1	20	4	100	4
Φ5*0.5*13*5*50*4T	5	0.5	13	5	50	4
Φ5*0.5*20*5*75*4T	5	0.5	20	5	75	4
Φ5*1*13*5*50*4T	5	1	13	5	50	4
Φ5*1*20*5*75*4T	5	1	20	5	75	4
Φ6*0.5*15*6*50*4T	6	0.5	15	6	50	4
Φ6*0.5*25*6*75*4T	6	0.5	25	6	75	4
Φ6*0.5*30*6*100*4T	6	0.5	30	6	100	4
Φ6*1*15*6*50*4T	6	1	15	6	50	4
Φ6*1*25*6*75*4T	6	1	25	6	75	4
Φ6*1*30*6*100*4T	6	1	30	6	100	4
Φ8*0.5*20*8*60*4T	8	0.5	20	8	60	4
Φ8*0.5*25*8*75*4T	8	0.5	25	8	75	4
Φ8*0.5*35*8*100*4T	8	0.5	35	8	100	4
Φ8*1*20*8*60*4T	8	1	20	8	60	4
Φ8*1*25*8*75*4T	8	1	25	8	75	4
Φ8*1*35*8*100*4T	8	1	35	8	100	4
Φ10*0.5*25*10*75*4T	10	0.5	25	10	75	4
Φ10*0.5*40*10*100*4T	10	0.5	40	10	100	4
Φ10*0.5*25*10*75*4T	10	0.5	25	10	75	4
Φ10*1*40*10*100*4T	10	1	40	10	100	4
Φ12*0.5*30*12*75*4T	12	0.5	30	12	75	4
Φ12*0.5*45*12*100*4T	12	0.5	45	12	100	4
Φ12*1*30*12*75*4T	12	1	30	12	75	4
Φ12*1*45*12*100*4T	12	1	45	12	100	4

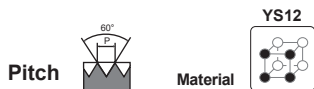
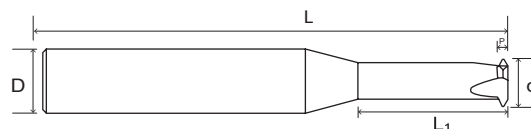
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

Carbide single-tooth thread milling cutter



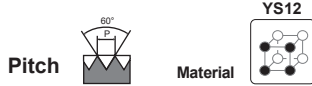
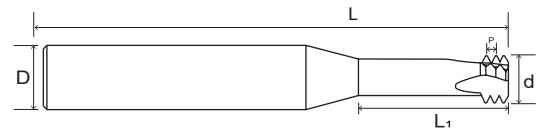
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Shank Dia.	Cutting Dia.	Cutting Length	Slots	Total Length
D* ϕ *L*Z	D (mm)	d (mm)	L ₁ (mm)	L (mm)	L (mm)
M1.0*0.25	4	0.73	2.3	3	50
M1.2*0.25	4	0.92	2.8	3	50
M1.4*0.3	4	1.05	3.2	3	50
M1.6*0.35	4	1.20	3.4	3	50
M1.8*0.35	4	1.40	4.5	3	50
M2.0*0.4	4	1.55	5.0	3	50
M2.2*0.45	4	1.65	5.5	3	50
M2.5*0.45	4	1.95	6.2	3	50
M3.0*0.5	4	2.40	7.5	3	50
M3.5*0.6	4	2.75	8.7	3	50
M4.0*0.7	4	3.15	10.0	3	50
M5.0*0.8	6	4.05	12.5	3	50
M6.0*1.0	6	4.80	15.0	3	50
M8.0*1.25	8	6.50	20.0	4	60
M10*1.5	10	8.20	25.0	4	75
M12*1.75	10	9.90	30.0	6	75
M14*2.0	12	11.60	36.0	6	75
M16*2.0	12	11.90	40.0	6	83
M20*2.5	16	15.90	50.0	6	100
M5.0*0.8	4	3.90	12.5	3	50
M6.0*1.0	4	3.95	15.0	3	50
M8.0*1.25	6	5.90	20.0	3	60
M10*1.5	8	7.90	25.0	4	60

Carbide three-tooth thread milling cutter



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Shank Dia.	Cutting Dia.	Cutting Length	Slots	Total Length
D* ϕ *L*Z	D (mm)	d (mm)	L ₁ (mm)	L (mm)	L (mm)
M1.0*0.25	4	0.73	2.3	3	50
M1.2*0.25	4	0.92	2.8	3	50
M1.4*0.3	4	1.05	3.2	3	50
M1.6*0.35	4	1.20	3.4	3	50
M1.8*0.35	4	1.40	4.5	3	50
M2.0*0.4	4	1.55	5.0	3	50
M2.2*0.45	4	1.65	5.5	3	50
M2.5*0.45	4	1.95	6.2	3	50
M3.0*0.5	4	2.40	7.5	3	50
M3.5*0.6	4	2.75	8.7	3	50
M4.0*0.7	4	3.15	10.0	3	50
M5.0*0.8	6	4.05	12.5	3	50
M6.0*1.0	6	4.80	15.0	3	50
M8.0*1.25	8	6.50	20.0	4	60
M10*1.5	10	8.20	25.0	4	75
M12*1.75	10	9.90	30.0	6	75
M14*2.0	12	11.60	36.0	6	75
M16*2.0	12	11.90	40.0	6	83
M20*2.5	16	15.90	50.0	6	100
M5.0*0.8	4	3.90	12.5	3	50
M6.0*1.0	4	3.95	15.0	3	50
M8.0*1.25	6	5.90	20.0	3	60
M10*1.5	8	7.90	25.0	4	60

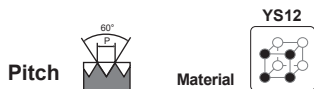
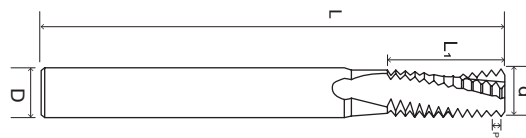
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

Carbide full-tooth thread milling cutter



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	○	●	○	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Shank Dia. D (mm)	Cutting Dia. d (mm)	Cutting Length L ₁ (mm)	Slots L (mm)	Total Length L (mm)
D*I*d*L*Z	D (mm)	d (mm)	L ₁ (mm)	L (mm)	L (mm)
M3.0*0.5	4	2.4	6	3	50
M4.0*0.7	4	3.15	8	3	50
M4.5*0.75	4	3.6	9	3	50
M5.0*0.8	6	3.9	10	3	50
M6.0*1.0	6	4.8	12	3	50
M8.0*1.25	8	6.5	16.3	4	60
M10*1.5	10	8.2	21	4	75
M12*1.75	12	9.9	25	4	75
M14*2.0	12	11.6	28	4	75
M16*2.0	14	13.6	32	4	80
M18*2.5	16	14.8	36	4	100
M20*2.5	18	17.1	40	4	100
M24*3.0	20	19.9	50	4	100
M6.0*1.0	4	3.9	12	3	50
M8.0*1.25	6	5.8	16.3	3	60
M10*1.5	8	7.7	21	3	60
M12*1.75	10	8.7	24.5	4	75
M14*2.0	10	9.9	28	4	75
M16*2.0	12	11.9	32	4	83
M18*2.5	12	11.9	36	4	83
M20*2.5	16	15.9	40	4	92
M24*3.0	16	15.9	50	4	92
M4.0*0.5	4	3.0	8	3	50
M5.0*0.5	4	3.9	10	3	50
M6.0*0.75	4	3.9	12	3	50
M8.0*1.0	6	5.9	16	3	60
M10*1.0	8	7.9	20	3	60
M12*1.0	10	9.9	24	4	75
M10*1.25	8	7.7	20	3	60
M12*1.5	10	9.4	24	4	75
M14*1.5	12	11.2	28.5	4	83
M16*1.5	12	11.9	33	4	83
M20*2.0	12	11.9	32	4	83

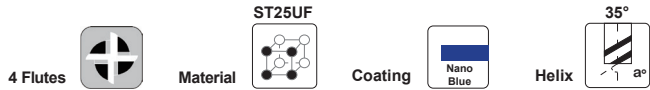
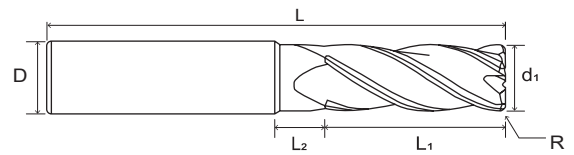
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

Carbide milling cutter for stainless steel (SUS)



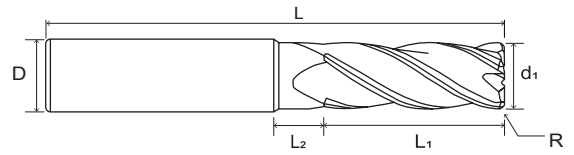
Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel	High Hardened Steel	
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia.	Neck Dia.	Cutting Length	Neck length	Shank Dia.	Total Length
D ₁ *d ₁ *L ₁ *F	D (mm)	D ₂ (mm)	l (mm)	L ₂ (mm)	d (mm)	L (mm)
SUSΦ1*3*4*50*4F	Φ1	-	3	-	4	50
SUSΦ1.5*4*4*50*4F	Φ1.5	-	4	-	4	50
SUSΦ2*6*4*50*4F	Φ2	-	6	-	4	50
SUSΦ2.5*8*4*50*4F	Φ2.5	-	8	-	4	50
SUSΦ3*8*3*50*4F	Φ3	-	8	-	3	50
SUSΦ3*8*4*50*4F	Φ3	-	8	-	4	50
SUSΦ3.5*8*4*50*4F	Φ3.5	-	8	-	4	50
SUSΦ4*8*4*50*4F	Φ4	3.7	8	3	4	50
SUSΦ5*10*5*50*4F	Φ5	4.7	10	5	5	50
SUSΦ5*10*6*50*4F	Φ5	4.7	10	5	6	50
SUSΦ6*12*6*50*4F	Φ6	5.7	12	5	6	50
SUSΦ8*17*8*60*4F	Φ8	7.7	17	5	8	60
SUSΦ3*10*3*75*4F	Φ3	2.7	10	5	3	75
SUSΦ4*12*4*75*4F	Φ4	3.7	12	5	4	75
SUSΦ5*17*5*75*4F	Φ5	4.7	17	5	5	75
SUSΦ6*17*6*75*4F	Φ6	5.7	17	5	6	75
SUSΦ8*22*8*75*4F	Φ8	7.7	22	5	8	75
SUSΦ10*22*10*75*4F	Φ10	9.7	22	5	10	75
SUSΦ12*27*12*75*4F	Φ12	11.7	27	5	12	75
SUSΦ14*28*14*80*4F	Φ14	13.7	28	5	14	80
SUSΦ3*10*3*100*4F	Φ3	2.7	10	5	3	100
SUSΦ4*13*4*100*4F	Φ4	3.7	13	5	4	100
SUSΦ5*17*5*100*4F	Φ5	4.7	17	5	5	100
SUSΦ6*22*6*100*4F	Φ6	5.7	22	5	6	100
SUSΦ8*30*8*100*4F	Φ8	7.7	30	5	8	100
SUSΦ10*35*10*100*4F	Φ10	9.7	35	5	10	100
SUSΦ12*40*12*100*4F	Φ12	11.7	40	5	12	100
SUSΦ14*40*14*100*4F	Φ14	13.7	40	10	14	100
SUSΦ16*40*16*100*4F	Φ16	15.7	40	10	16	100
SUSΦ18*40*18*100*4F	Φ18	17.7	40	10	18	100
SUSΦ20*40*20*100*4F	Φ20	19.7	40	10	20	100
SUSΦ25*40*25*100*4F	Φ25	24.7	40	10	25	100
SUSΦ6*20*6*150*4F	Φ6	5.7	20	5	6	150
SUSΦ8*30*8*150*4F	Φ8	7.7	30	5	8	150
SUSΦ10*40*10*150*4F	Φ10	9.7	40	5	10	150
SUSΦ12*40*12*150*4F	Φ12	11.7	40	5	12	150
SUSΦ14*40*14*150*4F	Φ14	13.7	40	10	14	150
SUSΦ16*45*16*150*4F	Φ16	15.7	45	10	16	150
SUSΦ18*45*18*150*4F	Φ18	17.7	45	10	18	150
SUSΦ20*50*20*150*4F	Φ20	19.7	50	10	20	150
SUSΦ25*55*25*150*4F	Φ25	24.7	55	10	25	150

Carbide milling cutter for titanium alloy (TUS)



Material Discription

P			M	K	N			S	H		
Carbon Steel	Alloy Steel	Prehardened Steel	Stainless Steel	Cast Iron	Copper	Graphite	Aluminium	Titanium	Hardened Steel		High Hardened Steel
~HB225	~HB225-325	~HRC30-40							~HRC40-45	~HRC45-55	~HRC55-70
●	●	●	●	●	●	●	●	●	●	●	●

○ Can be used
● Suitable
● Not Recommended

Art. Number	Cutting Dia. & Corner Radius	Shank Dia.	Cutting Length	Neck length	Shank Dia.	Total Length
D ₁ *d ₁ *L*F	D (mm) & R(mm)	d (mm)	l (mm)	L ₂ (mm)	d (mm)	L (mm)
TUSΦ1R0.1*3*4*50*4F	Φ1R0.1	-	3	-	4	50
TUSΦ1.5R0.1*4*4*50*4F	Φ1.5R0.1	-	4	-	4	50
TUSΦ2R0.1*6*4*50*4F	Φ2R0.1	-	6	-	4	50
TUSΦ2.5R0.1*8*4*50*4F	Φ2.5R0.1	-	8	-	4	50
TUSΦ3R0.2*8*3*50*4F	Φ3R0.2	-	8	-	3	50
TUSΦ3R0.2*8*4*50*4F	Φ3R0.2	-	8	-	4	50
TUSΦ3.5R0.2*8*4*50*4F	Φ3.5R0.2	-	8	-	4	50
TUSΦ4R0.5*8*4*50*4F	Φ4R0.5	3.7	8	3	4	50
TUSΦ5R0.5*10*5*50*4F	Φ5R0.5	4.7	10	5	5	50
TUSΦ5R0.5*10*6*50*4F	Φ5R0.5	4.7	10	5	6	50
TUSΦ6R0.5*12*6*50*4F	Φ6R0.5	5.7	12	5	6	50
TUSΦ8R0.5*17*8*60*4F	Φ8R0.5	7.7	17	5	8	60
TUSΦ3R0.2*10*3*75*4F	Φ3R0.2	2.7	10	5	3	75
TUSΦ4R0.5*12*4*75*4F	Φ4R0.5	3.7	12	5	4	75
TUSΦ5R0.5*17*5*75*4F	Φ5R0.5	4.7	17	5	5	75
TUSΦ6R0.5*17*6*75*4F	Φ6R0.5	5.7	17	5	6	75
TUSΦ8R0.5*22*8*75*4F	Φ8R0.5	7.7	22	5	8	75
TUSΦ10R0.5*22*10*75*4F	Φ10R0.5	9.7	22	5	10	75
TUSΦ12R0.5*27*12*75*4F	Φ12R0.5	11.7	27	5	12	75
TUSΦ14R0.5*28*14*80*4F	Φ14R0.5	13.7	28	10	14	80
TUSΦ3R0.2*10*3*100*4F	Φ3R0.2	2.7	10	5	3	100
TUSΦ4R0.5*13*4*100*4F	Φ4R0.5	3.7	13	5	4	100
TUSΦ5R0.5*17*5*100*4F	Φ5R0.5	4.7	17	5	5	100
TUSΦ6R0.5*22*6*100*4F	Φ6R0.5	5.7	22	5	6	100
TUSΦ8R0.5*30*8*100*4F	Φ8R0.5	7.7	30	5	8	100
TUSΦ10R0.5*35*10*100*4F	Φ10R0.5	9.7	35	5	10	100
TUSΦ12R0.5*40*12*100*4F	Φ12R0.5	11.7	40	5	12	100
TUSΦ14R0.5*40*14*100*4F	Φ14R0.5	13.7	40	10	14	100
TUSΦ16R0.5*40*18*100*4F	Φ16R0.5	15.7	40	10	18	100
TUSΦ18R0.5*40*18*100*4F	Φ18R0.5	17.7	40	10	18	100
TUSΦ20R0.5*40*20*100*4F	Φ20R0.5	19.7	40	10	20	100
TUSΦ25R1*40*25*100*4F	Φ25R1	24.7	40	10	25	100
TUSΦ6R0.5*22*6*150*4F	Φ6R0.5	5.7	22	5	6	150
TUSΦ8R0.5*30*8*150*4F	Φ8R0.5	7.7	30	5	8	150
TUSΦ10R0.5*40*10*150*4F	Φ10R0.5	9.7	40	5	10	150
TUSΦ12R0.5*40*12*150*4F	Φ12R0.5	11.7	40	5	12	150
TUSΦ14R0.5*40*14*150*4F	Φ14R0.5	13.7	40	10	14	150
TUSΦ16R0.5*45*16*150*4F	Φ16R0.5	15.7	45	10	16	150
TUSΦ18R0.5*45*18*150*4F	Φ18R0.5	17.7	45	10	18	150
TUSΦ20R0.5*50*20*150*4F	Φ20R0.5	19.7	50	10	20	150
TUSΦ25R1*55*25*150*4F	Φ25R1	24.7	55	10	25	150

HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

QUALITY

03

HSS TAP



GB/T TAPS

P46~P49



DIN TAPS

P50~P51



JIS TAPS

P52~P53



OTHER TAPS

P54~P56

Spiral flute taps GB/T 3506



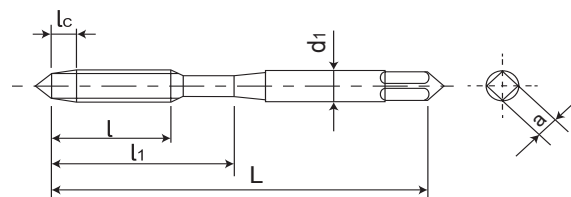
Pitch



Material



Coating



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*3.15	M3	0.5	H2	48	11	18	2.5P	3.15	2.5	3	2.5
M4*0.7*13*53*4	M4	0.7	H2	53	13	21	2.5P	4	3.15	3	3.3
M5*0.8*16*58*5	M5	0.8	H2	58	16	25	2.5P	5	4	3	4.2
M6*1*19*66*6.3	M6	1	H2	66	19	30	2.5P	6.3	5	3	5
M8*1.25*22*72*6.3	M8	1.25	H2	72	22	-	2.5P	6.3	5	3	6.8
M8*1*22*72*6.3	M8x1	1	H2	72	22	-	2.5P	6.3	5	3	7
M10*1.5*24*80*8	M10	1.5	H2	80	24	-	2.5P	8	6.3	3	8.5
M10*1*24*80*8	M10x1	1	H2	80	24	-	2.5P	8	6.3	3	9
M10*1.25*24*80*8	M10x1.25	1.25	H2	80	24	-	2.5P	8	6.3	3	8.8
M12*1.75*29*89*9	M12	1.75	H2	89	29	-	2.5P	9	7.1	3	10.3
M12*1*22*80*9	M12x1	1	H2	80	22	-	2.5P	9	7.1	3	11
M12*1.25*29*89*9	M12x1.25	1.25	H2	89	29	-	2.5P	9	7.1	3	10.8
M12*1.5*29*89*9	M12x1.5	1.5	H2	89	29	-	2.5P	9	7.1	3	10.5
M14*2*30*95*11.2	M14	2	H2	95	30	-	2.5P	11.2	9	4	12
M14*1*22*87*11.2	M14x1	1	H2	87	22	-	2.5P	11.2	9	4	13
M14*1.25*30*95*11.2	M14x1.25	1.25	H2	95	30	-	2.5P	11.2	9	4	12.8
M14*1.5*30*95*11.2	M14x1.5	1.5	H2	95	30	-	2.5P	11.2	9	4	12.5
M16*2*32*102*12.5	M16	2	H2	102	32	-	2.5P	12.5	10	4	14
M16*1*22*92*12.5	M16x1	1	H2	92	22	-	2.5P	12.5	10	4	15
M16*1.5*32*102*12.5	M16x1.5	1.5	H2	102	32	-	2.5P	12.5	10	4	14.5

Spiral Point taps GB/T 28254



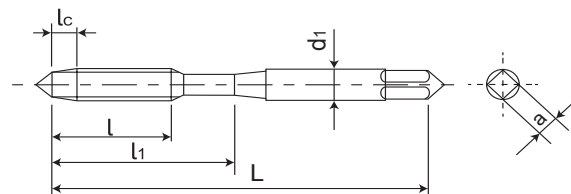
Pitch



Material



Coating



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*3.15	M3	0.5	H2	48	11	18	5P	3.15	2.5	3	2.5
M4*0.7*13*53*4	M4	0.7	H2	53	13	21	5P	4	3.15	3	3.3
M5*0.8*16*58*5	M5	0.8	H2	58	16	25	5P	5	4	3	4.2
M6*1*19*66*6.3	M6	1	H2	66	19	30	5P	6.3	5	3	5
M8*1.25*22*72*6.3	M8	1.25	H2	72	22	-	5P	6.3	5	3	6.8
M8*1*22*72*6.3	M8x1	1	H2	72	22	-	5P	6.3	5	3	7
M10*1.5*24*80*8	M10	1.5	H2	80	24	-	5P	8	6.3	3	8.5
M10*1*24*80*8	M10x1	1	H2	80	24	-	5P	8	6.3	3	9
M10*1.25*24*80*8	M10x1.25	1.25	H2	80	24	-	5P	8	6.3	3	8.8
M12*1.75*29*89*9	M12	1.75	H2	89	29	-	5P	9	7.1	3	10.3
M12*1*22*80*9	M12x1	1	H2	80	22	-	5P	9	7.1	3	11
M12*1.25*29*89*9	M12x1.25	1.25	H2	89	29	-	5P	9	7.1	3	10.8
M12*1.5*29*89*9	M12x1.5	1.5	H2	89	29	-	5P	9	7.1	3	10.5
M14*2*30*95*11.2	M14	2	H2	95	30	-	5P	11.2	9	3	12
M14*1*22*87*11.2	M14x1	1	H2	87	22	-	5P	11.2	9	3	13
M14*1.25*30*95*11.2	M14x1.25	1.25	H2	95	30	-	5P	11.2	9	3	12.8
M14*1.5*30*95*11.2	M14x1.5	1.5	H2	95	30	-	5P	11.2	9	3	12.5
M16*2*32*102*12.5	M16	2	H2	102	32	-	5P	12.5	10	3	14
M16*1*22*92*12.5	M16x1	1	H2	92	22	-	5P	12.5	10	3	15
M16*1.5*32*102*12.5	M16x1.5	1.5	H2	102	32	-	5P	12.5	10	3	14.5

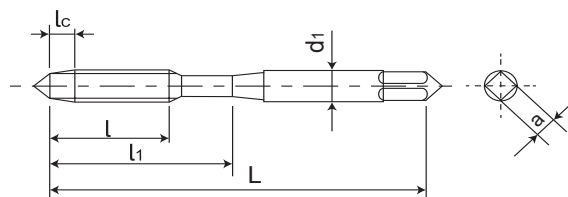
HSS MILL

CARBIDE MILL

HSS TAP

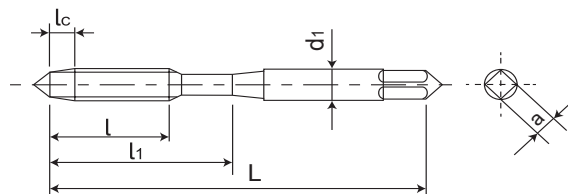
OTHER TOOL

Spiral flute taps GB/T 3506



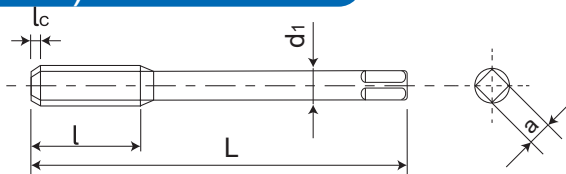
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*3.15	M3	0.5	H2	48	11	2.5P	3.15	2.5	3	2.5
M4*0.7*13*53*4	M4	0.7	H2	53	13	2.5P	4	3.15	3	3.3
M5*0.8*16*58*5	M5	0.8	H2	58	16	2.5P	5	4	3	4.2
M6*1*19*66*6.3	M6	1	H2	66	19	2.5P	6.3	5	3	5
M8*1.25*22*72*6.3	M8	1.25	H2	72	22	2.5P	6.3	5	3	6.8
M8*1*22*72*6.3	M8x1	1	H2	72	22	2.5P	6.3	5	3	7
M10*1.5*24*80*8	M10	1.5	H2	80	24	2.5P	8	6.3	3	8.5
M10*1*24*80*8	M10x1	1	H2	80	24	2.5P	8	6.3	3	9
M10*1.25*24*80*8	M10x1.25	1.25	H2	80	24	2.5P	8	6.3	3	8.8
M12*1.75*29*89*9	M12	1.75	H2	89	29	2.5P	9	7.1	3	10.3
M12*1*22*80*9	M12x1	1	H2	80	24	2.5P	9	7.1	3	11
M12*1.25*29*89*9	M12x1.25	1.25	H2	89	29	2.5P	9	7.1	3	10.8
M12*1.5*29*89*9	M12x1.5	1.5	H2	89	29	2.5P	9	7.1	3	10.5
M14*2*30*95*11.2	M14	2	H2	95	30	2.5P	11.2	9	4	12
M14*1*22*87*11.2	M14x1.25	1.25	H2	95	30	2.5P	11.2	9	4	12.8
M14*1.25*30*95*11.2	M14x1.5	1.5	H2	95	30	2.5P	11.2	9	4	12.5
M14*1.5*30*95*11.2	M16	2	H2	102	32	2.5P	12.5	10	4	14
M16*2*32*102*12.5	M16x1.5	1.5	H2	102	32	2.5P	12.5	10	4	14.5

Spiral Point taps GB/T 28254



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*3.15	M3	0.5	H2	48	11	18	5P	3.15	2.5	3	2.5
M4*0.7*13*53*4	M4	0.7	H2	53	13	21	5P	4	3.15	3	3.3
M5*0.8*16*58*5	M5	0.8	H2	58	16	25	5P	5	4	3	4.2
M6*1*19*66*6.3	M6	1	H2	66	19	30	5P	6.3	5	3	5
M8*1.25*22*72*6.3	M8	1.25	H2	72	22	-	5P	6.3	5	3	6.8
M8x1*1*22*72*6.3	M8x1	1	H2	72	22	-	5P	6.3	5	3	7
M10*1.5*24*80*8	M10	1.5	H2	80	24	-	5P	8	6.3	3	8.5
M10*1*24*80*8	M10x1	1	H2	80	24	-	5P	8	6.3	3	9
M10*1.25*24*80*8	M10x1.25	1.25	H2	80	24	-	5P	8	6.3	3	8.8
M12*1.75*29*89*9	M12	1.75	H2	89	29	-	5P	9	7.1	3	10.3
M12*1*22*80*9	M12x1	1	H2	80	22	-	5P	9	7.1	3	11
M12*1.25*29*89*9	M12x1.25	1.25	H2	89	29	-	5P	9	7.1	3	10.8
M12*1.5*29*89*9	M12x1.5	1.5	H2	89	29	-	5P	9	7.1	3	10.5
M14*2*30*95*11.2	M14	2	H2	95	30	-	5P	11.2	9	3	12
M14*1.25*30*95*11.2	M14x1.25	1.25	H2	95	30	-	5P	11.2	9	3	12.8
M14*1.5*30*95*11.2	M14x1.5	1.5	H2	95	30	-	5P	11.2	9	3	12.5
M16*2*32*102*12.5	M16x1.5	2	H2	102	32	-	5P	12.5	10	3	14
M16*1.5*32*102*12.5	M16x1.5	1.5	H2	102	32	-	5P	12.5	10	3	14.5

Machine taps with reduced shank(fine pitch) GB/T 3464.1



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M6*0.75*19*66*4.5	M6x0.75	0.75	H2	66	19	4P	4.5	3.55	3	5.3
M8*1*22*72*6.3	M8x1	1	H2	72	22	4P	6.3	5	3	7
M10*1*24*80*8	M10x1	1	H2	80	24	4P	8	6.3	3	9
M10*1.25*24*80*8	M10x1.25	1.25	H2	80	24	4P	8	6.3	3	8.8
M12*1*22*80*9	M12x1	1	H2	80	22	4P	9	7.1	4	11
M12x*1.25*29*89*9	M12x1.25	1.25	H2	89	29	4P	9	7.1	4	10.8
M12*1.5*29*89*9	M12x1.5	1.5	H2	89	29	4P	9	7.1	4	10.5
M14*1*22*87*11.2	M14x1	1	H2	87	22	4P	11.2	9	4	13
M14*1.25*30*95*11.2	M14x1.25	1.25	H2	95	30	4P	11.2	9	4	12.8
M14*1.5*30*95*11.2	M14x1.5	1.5	H2	95	30	4P	11.2	9	4	12.5
M16*1*22*92*12.5	M16x1	1	H2	92	22	4P	12.5	10	4	15
M16*1.5*32*102*12.5	M16x1.5	1.5	H2	102	32	4P	12.5	10	4	14.5
M18*1*22*97*14	M18x1	1	H2	97	22	4P	14	11.2	4	17
M18*1.5*37*112*14	M18x1.5	1.5	H2	112	37	4P	14	11.2	4	16.5
M18*2*37*112*14	M18x2	2	H2	112	37	4P	14	11.2	4	16
M20*1*22*102*14	M20x1	1	H2	102	22	4P	14	11.2	4	19
M20*1.5*37*112*14	M20x1.5	1.5	H2	112	37	4P	14	11.2	4	18.5
M20*2*37*112*14	M20x2	2	H2	112	37	4P	14	11.2	4	18
M22*1*24*109*16	M22x1	1	H2	109	24	4P	16	12.5	4	21
M22*1.5*38*118*16	M22x1.5	1.5	H2	118	38	4P	16	12.5	4	20.5
M22*2*38*118*16	M22x2	2	H2	118	38	4P	16	12.5	4	20
M24*1*24*114*18	M24x1	1	H2	114	24	4P	18	14	4	23
M24*1.5*45*130*18	M24x1.5	1.5	H2	130	45	4P	18	14	4	22.5
M24*2*45*130*18	M24x2	2	H2	130	45	4P	18	14	4	22
M27*1*25*120*20	M27x1	1	H2	120	25	4P	20	16	4	26
M27*1.5*37*127*20	M27x1.5	1.5	H2	127	37	4P	20	16	4	25.5
M27*2*37*127*20	M27x2	2	H2	127	37	4P	20	16	4	25
M30*1*25*120*20	M30x1	1	H2	120	25	4P	20	16	4	29
M30*1.5*37*127*20	M30x1.5	1.5	H2	127	37	4P	20	16	4	28.5
M30*2*37*127*20	M30x2	2	H2	127	37	4P	20	16	4	28
M30*3*48*138*20	M30x3	3	H2	138	48	4P	20	16	4	27
M33*1.5*37*137*22.4	M33x1.5	1.5	H2	137	37	4P	22.4	18	4	31.5
M33*2*37*137*22.4	M33x2	2	H2	137	37	4P	22.4	18	4	31
M33*3*51*151*22.4	M33x3	3	H2	151	51	4P	22.4	18	4	30
M36*1.5*39*144*25	M36x1.5	1.5	H2	144	39	4P	25	20	4	34.5
M36*2*39*144*25	M36x2	2	H2	144	39	4P	25	20	4	34
M36*3*57*162*25	M36x3	3	H2	162	57	4P	25	20	4	33
M39*1.5*39*149*28	M39x1.5	1.5	H2	149	39	4P	28	22.4	4	37.5
M39*2*39*149*28	M39x2	2	H2	149	39	4P	28	22.4	4	37
M39*3*60*170*28	M39x3	3	H2	170	60	4P	28	22.4	4	36
M42*1.5*39*149*28	M42x1.5	1.5	H2	149	39	4P	28	22.4	6	40.5
M42*2*39*149*28	M42x2	2	H2	149	39	4P	28	22.4	6	40
M42*3*60*170*28	M42x3	3	H2	170	60	4P	28	22.4	6	39
M45*1.5*45*165*31.5	M45x1.5	1.5	H2	165	45	4P	31.5	25	6	43.5
M45*2*45*165*31.5	M45x2	2	H2	165	45	4P	31.5	25	6	43
M45*3*67*187*31.5	M45x3	3	H2	187	67	4P	31.5	25	6	42
M45*4*67*187*31.5	M45x4	4	H2	187	67	4P	31.5	25	6	41
M48*1.5*45*165*31.5	M48x1.5	1.5	H2	165	45	4P	31.5	25	6	46.5
M48*2*45*165*31.5	M48x2 2	2	H2	165	45	4P	31.5	25	6	46
M48*3*67*187*31.5	M48x3	3	H2	187	67	4P	31.5	25	6	45
M48*4*67*187*31.5	M48x4	4	H2	187	67	4P	31.5	25	6	44
M52*1.5*45*175*35.5	M52x1.5	1.5	H2	175	45	4P	35.5	28	6	50.5
M52*2*45*175*35.5	M52x2	2	H2	175	45	4P	35.5	28	6	50
M52*3*70*200*35.5	M52x3	3	H2	200	70	4P	35.5	28	6	49
M52*4*70*200*35.5	M52x4	4	H2	200	70	4P	35.5	28	6	48

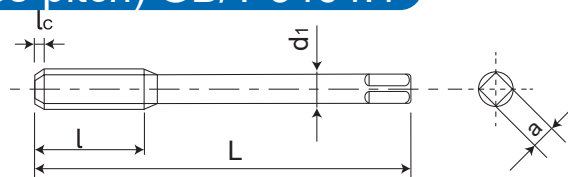
HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

Machine taps with reduced shank(coarse pitch) GB/T 3464.1



Pitch



Material

Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*2.24	M3	0.5	H2	48	11	4P	2.24	1.8	3	2.5
M4*0.7*13*53*3.15	M4	0.7	H2	53	13	4P	3.15	2.5	3	3.3
M5*0.8*16*58*4	M5	0.8	H2	58	16	4P	4	3.15	3	4.2
M6*1*19*66*4.5	M6	1	H2	66	19	4P	4.5	3.55	3	5
M8*1.25*22*72*6.3	M8	1.25	H2	72	22	4P	6.3	5	3	6.8
M10*1.5*24*80*8	M10	1.5	H2	80	24	4P	8	6.3	3	8.5
M12*1.75*29*89*9	M12	1.75	H2	89	29	4P	9	7.1	4	10.3
M14*2*30*95*11.2	M14	2	H2	95	30	4P	11.2	9	4	12
M16*2*32*102*12.5	M16	2	H2	102	32	4P	12.5	10	4	14
M18*2.5*37*112*14	M18	2.5	H2	112	37	4P	14	11.2	4	15.5
M20*2.5*37*112*14	M20	2.5	H2	112	37	4P	14	11.2	4	17.5
M22*2.5*38*118*16	M22	2.5	H2	118	38	4P	16	12.5	4	19.5
M24*3*45*130*18	M24	3	H2	130	45	4P	18	14	4	21
M27*3*45*135*20	M27	3	H2	135	45	4P	20	16	4	24
M30*3.5*48*138*20	M30	3.5	H2	138	48	4P	20	16	4	26.5
M33*3.5*51*151*22.4	M33	3.5	H2	151	51	4P	22.4	18	4	29.5
M36*4*57*162*25	M36	4	H2	162	57	4P	25	20	4	32
M39*4*60*170*28	M39	4	H2	170	60	4P	28	22.4	4	35
M42*4.5*60*170*28	M42	4.5	H2	170	60	4P	28	22.4	6	37.5
M45*4.5*67*187*31.5	M45	4.5	H2	187	67	4P	31.5	25	6	40.5
M48*5*67*187*31.5	M48	5	H2	187	67	4P	31.5	25	6	43
M52*5*70*200*35.5	M52	5	H2	200	70	4P	35.5	28	6	47

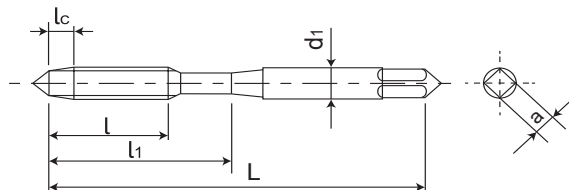
HSS MILLS

CARBIDE MILL

HSS TAP

OTHER TOOL

Spiral flute taps with reinforced shank DIN371



Pitch

Material



Coating



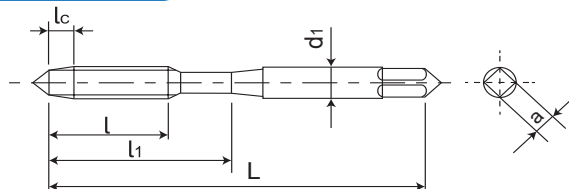
TIN



TICN

Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*I*L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*56*3.5	M3	0.5	6H	56	11	18	2.5P	3.5	2.7	3	2.5
M4*0.7*13*63*4.5	M4	0.7	6H	63	13	21	2.5P	4.5	3.4	3	3.3
M5*0.8*16*70*6	M5	0.8	6H	70	16	25	2.5P	6	4.9	3	4.2
M6*1*19*80*6	M6	1	6H	80	19	30	2.5P	6	4.9	3	5
M8*1.25*22*90*8	M8	1.25	6H	90	22	35	2.5P	8	6.2	3	6.8
M8*1*22*90*8	M8x1	1	6H	90	22	35	2.5P	8	6.2	3	7
M10*1.5*24*100*10	M10	1.5	6H	100	24	39	2.5P	10	8	3	8.5
M10*1*20*90*10	M10x1	1	6H	90	20	35	2.5P	10	8	3	9
M10*1.25*24*100*10	M10x1.25	1.25	6H	100	24	39	2.5P	10	8	3	8.8

Spiral Point taps with reinforced shank DIN371



Pitch

Material



Coating



TIN



TICN

Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*I*L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*56*3.5	M3	0.5	6H	56	11	18	5P	3.5	2.7	3	2.5
M4*0.7*13*63*4.5	M4	0.7	6H	63	13	21	5P	4.5	3.4	3	3.3
M5*0.8*16*70*6	M5	0.8	6H	70	16	25	5P	6	4.9	3	4.2
M6*1*19*80*6	M6	1	6H	80	19	30	5P	6	4.9	3	5
M8*1.25*22*90*8	M8	1.25	6H	90	22	35	5P	8	6.2	3	6.8
M8*1*22*90*8	M8x1	1	6H	90	22	35	5P	8	6.2	3	7
M10*1.5*24*100*10	M10	1.5	6H	100	24	39	5P	10	8	3	8.5
M10*1*20*90*10	M10x1	1	6H	90	20	35	5P	10	8	3	9
M10*1.25*24*100*10	M10x1.25	1.25	6H	100	24	39	5P	10	8	3	8.8

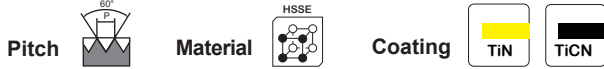
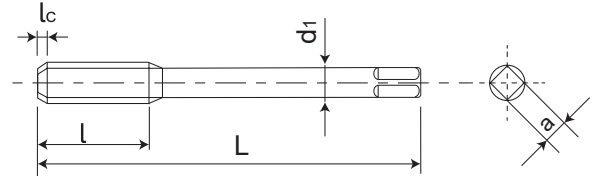
HSS MILL

CARBIDE MILL

HSS TAP

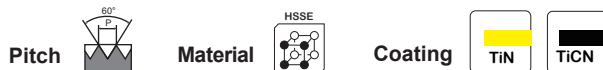
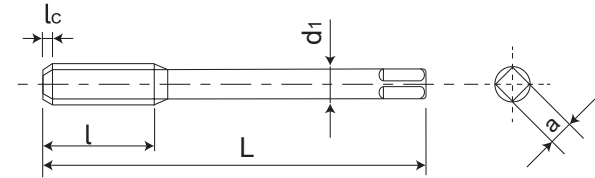
OTHER TOOL

Spiral flute taps with reduced shank DIN376/374



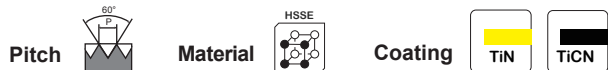
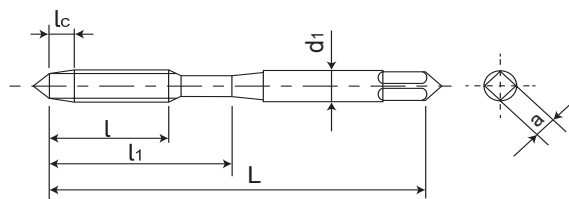
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M4*0.7*13*63*2.8	M4	0.7	6H	63	13	2.5P	2.8	2.1	3	3.3
M5*0.8*16*70*3.5	M5	0.8	6H	70	16	2.5P	3.5	2.7	3	4.2
M6*1*19*80*4.5	M6	1	6H	80	19	2.5P	4.5	3.4	3	5
M8*1.25*22*90*6	M8	1.25	6H	90	22	2.5P	6	4.9	3	6.8
M8*1*22*90*6	M8x1	1	6H	90	22	2.5P	6	4.9	3	7
M10*1.5*24*100*7	M10	1.5	6H	100	24	2.5P	7	5.5	3	8.5
M10*1*20*90*7	M10x1	1	6H	90	20	2.5P	7	5.5	3	9
M10*1.25*24*100*7	M10x1.25	1.25	6H	100	24	2.5P	7	5.5	3	8.8
M12*1.75*28*110*9	M12	1.75	6H	110	28	2.5P	9	7	3	10.3
M12*1*22*100*9	M12x1	1	6H	100	22	2.5P	9	7	3	11
M12*1.25*22*100*9	M12x1.25	1.25	6H	100	22	2.5P	9	7	3	10.8
M12*1.5*22*100*9	M12x1.5	1.5	6H	100	22	2.5P	9	7	3	10.5
M14*2*30*110*11	M14	2	6H	110	30	2.5P	11	9	4	12
M14*1*22*100*11	M14x1	1	6H	100	22	2.5P	11	9	4	13
M14*1.25*22*100*11	M14x1.25	1.25	6H	100	22	2.5P	11	9	4	12.8
M14*15*22*100*11	M14x1.5	15	6H	100	22	2.5P	11	9	4	12.5
M16*2*32*110*12	M16	2	6H	110	32	2.5P	12	9	4	14
M16*1*22*100*12	M16x1	1	6H	100	22	2.5P	12	9	4	15
M16*1.5*22*100*12	M16x1.5	1.5	6H	100	22	2.5P	12	9	4	14.5

Spiral point taps with reduced shank DIN376/374



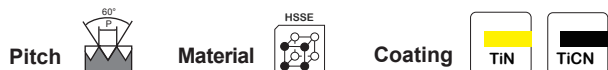
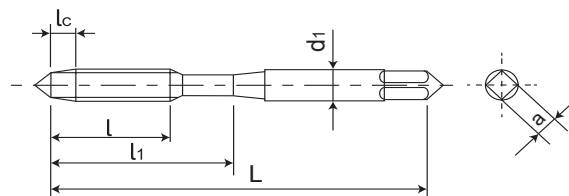
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M4*0.7*13*63*2.1	M4	0.7	6H	63	13	5P	2.8	2.1	3	3.3
M5*0.8*16*70*2.7	M5	0.8	6H	70	16	5P	3.5	2.7	3	4.2
M6*1*19*80*3.4	M6	1	6H	80	19	5P	4.5	3.4	3	5
M8*1.25*22*90*4.9	M8	1.25	6H	90	22	5P	6	4.9	3	6.8
M8*1*22*90*4.9	M8x1	1	6H	90	22	5P	6	4.9	3	7
M10*1.5*24*100*5.5	M10	1.5	6H	100	24	5P	7	5.5	3	8.5
M10*1*20*90*5.5	M10x1	1	6H	90	20	5P	7	5.5	3	9
M10*1.25*24*100*5.5	M10x1.25	1.25	6H	100	24	5P	7	5.5	3	8.8
M12*1.75*28*110*7	M12	1.75	6H	110	28	5P	9	7	3	10.3
M12*1*22*100*7	M12x1	1	6H	100	22	5P	9	7	3	11
M12*1.25*22*100*7	M12x1.25	1.25	6H	100	22	5P	9	7	3	10.8
M12*1.5*22*100*7	M12x1.5	1.5	6H	100	22	5P	9	7	3	10.5
M14*2*30*110*9	M14	2	6H	110	30	5P	11	9	3	12
M14*22*100*9	M14x1	1	6H	100	22	5P	11	9	3	13
M14*1.25*22*100*9	M14x1.25	1.25	6H	100	22	5P	11	9	3	12.8
M14*1.5*22*100*9	M14x1.5	15	6H	100	22	5P	11	9	3	12.5
M16*2*32*110*9	M16	2	6H	110	32	5P	12	9	3	14
M16*1*22*100*9	M16x1	1	6H	100	22	5P	12	9	3	15
M16*1.5*22*100*9	M16x1.5	1.5	6H	100	22	5P	12	9	3	14.5

Spiral flute taps JIS



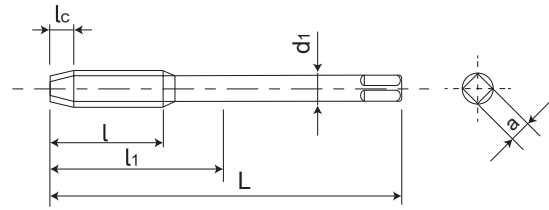
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P* l_1 *L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*46*4	M3	0.5	OH2	46	11	19	2.5P	4	3.2	3	2.5
M4*0.7*13*52*5	M4	0.7	OH2	52	13	21	2.5P	5	4	3	3.3
M5*0.8*16*60*5.5	M5	0.8	OH2	60	16	24	2.5P	5.5	4.5	3	4.2
M6*1*19*62*6	M6	1	OH3	62	19	29	2.5P	6	4.5	3	5
M8*1.25*22*70*6.2	M8	1.25	OH3	70	22	37	2.5P	6.2	5	3	6.8
M8*1*22*70*6.2	M8x1	1	OH2	70	22	37	2.5P	6.2	5	3	7
M10*1.5*24*75*7	M10	1.5	OH3	75	24	41	2.5P	7	5.5	3	8.5
M10*1*24*75*7	M10x1	1	OH2	75	24	41	2.5P	7	5.5	3	9
M10*1.25*24*75*7	M10x1.25	1.25	OH3	75	24	41	2.5P	7	5.5	3	8.8
M12*1.75*29*82*8.5	M12	1.75	OH4	82	29	48	2.5P	8.5	6.5	3	10.3
M12*1*29*82*8.5	M12x1	1	OH3	82	29	48	2.5P	8.5	6.5	3	11
M12*1.25*29*82*8.5	M12x1.25	1.25	OH3	82	29	48	2.5P	8.5	6.5	3	10.8
M12*1.5*29*82*8.5	M12x1.5	1.5	OH3	82	29	48	2.5P	8.5	6.5	3	10.5
M14*2*30*88*10.5	M14x2	2	OH4	88	30	48	2.5P	10.5	8	4	12
M14*1*30*88*10.5	M14x1	1	OH3	88	30	48	2.5P	10.5	8	4	13
M14*1.25*30*88*10.5	M14x1.25	1.25	OH3	88	30	48	2.5P	10.5	8	4	12.8
M14*1.5*30*88*10.5	M14x1.5	1.5	OH3	88	30	48	2.5P	10.5	8	4	12.5
M16*2*32*95*12.5	M16x2	2	OH4	95	32	52	2.5P	12.5	10	4	14
M16*1*32*95*12.5	M16x1	1	OH3	95	32	52	2.5P	12.5	10	4	15
M16*1.5*32*95*12.5	M16x1.5	1.5	OH3	95	32	52	2.5P	12.5	10	4	14.5

Spiral Point taps JIS



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P* l_1 *L*d ₁	Size	P	T	L	l	L ₁	l _c	d ₁	a	Z	d ₀
M3*0.5*11*48*3.15	M3	0.5	OH2	46	11	19	5P	4	3.2	3	2.5
M4*0.7*13*53*4	M4	0.7	OH2	52	13	21	5P	5	4	3	3.3
M5*0.8*16*58*5	M5	0.8	OH2	60	16	24	5P	5.5	4.5	3	4.2
M6*1*19*66*6.3	M6	1	OH3	62	19	29	5P	6	4.5	3	5
M8*1.25*22*72*6.3	M8	1.25	OH3	70	22	37	5P	6.2	5	3	6.8
M8*1*22*72*6.3	M8x1	1	OH2	70	22	37	5P	6.2	5	3	7
M10*1.5*24*80*8	M10	1.5	OH3	75	24	41	5P	7	5.5	3	8.5
M10*1*24*80*8	M10x1	1	OH3	75	24	41	5P	7	5.5	3	9
M10*1.25*24*80*8	M10x1.25	1.25	OH3	75	24	41	5P	7	5.5	3	8.8
M12*1.75*29*89*9	M12	1.75	OH4	82	29	48	5P	8.5	6.5	3	10.3
M12*1*22*80*9	M12x1	1	OH3	82	29	48	5P	8.5	6.5	3	11
M12*1.25*29*89*9	M12x1.25	1.25	OH3	82	29	48	5P	8.5	6.5	3	10.8
M12*1.5*29*89*9	M12x1.5	1.5	OH3	82	29	48	5P	8.5	6.5	3	10.5
M14*2*30*95*11.2	M14	2	OH4	88	30	48	5P	10.5	8	3	12
M14*1*22*87*11.2	M14x1	1	OH3	88	30	48	5P	10.5	8	3	13
M14*1.25*30*95*11.2	M14x1.25	1.25	OH3	88	30	48	5P	10.5	8	3	12.8
M14*1.5*30*95*11.2	M14x1.5	1.5	OH3	88	30	48	5P	10.5	8	3	12.5
M16*2*32*102*12.5	M16	2	OH4	95	32	52	5P	12.5	10	3	14
M16*1*22*92*12.5	M16x1	1	OH3	95	32	52	5P	12.5	10	3	15
M16*1.5*32*102*12.5	M16x1.5	1.5	OH3	95	32	52	5P	12.5	10	3	14.5

Thread forming taps JIS



Material



Coating



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Neck Length	Chamfer Length l_c		Shank Dia.	Square width	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	L ₁	Blind hole l_c	Through hole l_c	d ₁	a	d ₀
M2*0.4*12*40*3	M2	0.4	RH4	40	12	-	2P	4P	3	2.5	1.82
M2.5*0.45*14*44*3	M2.5	0.45	RH4	44	14	-	2P	4P	3	2.5	2.3
M3*0.5*9*46*4	M3	0.5	RH5	46	9	18	2P	4P	4	3.2	2.8
M4*0.7*10*52*5	M4	0.7	RH6	52	10	20	2P	4P	5	4	3.7
M5*0.8*11*60*5.5	M5	0.8	RH6	60	11	22	2P	4P	5.5	4.5	4.65
M6*1*12*62*6	M6	1	RH7	62	12	24	2P	4P	6	4.5	5.55
M8*1.25*18*70*6.2	M8	1.25	RH7	70	18	-	2P	4P	6.2	5	7.45
M8*1*18*70*6.2	M8x1	1	RH7	70	18	-	2P	4P	6.2	5	7.55
M10*1.5*19*75*7	M10	1.5	RH7	75	19	-	2P	4P	7	5.5	9.35
M10*1*19*75*7	M10x1	1	RH7	75	19	-	2P	4P	7	5.5	9.55
M10*1.25*19*75*7	M10x1.25	1.25	RH7	75	19	-	2P	4P	7	5.5	9.45
M12*1.75*23*82*8.5	M12	1.75	RH8	82	23	-	2P	4P	8.5	6.5	11.2
M12*1*23*82*8.5	M12x1	1	RH7	82	23	-	2P	4P	8.5	6.5	11.55
M12*1.25*23*82*8.5	M12x1.25	1.25	RH7	82	23	-	2P	4P	8.5	6.5	11.45
M12*1.5*23*82*8.5	M12x1.5	1.5	RH7	82	23	-	2P	4P	8.5	6.5	11.35
M14*2*25*88*10.5	M14	2	RH10	88	25	-	2P	4P	10.5	8	13.1
M14*1*25*88*10.5	M14x1	1	RH8	88	25	-	2P	4P	10.5	8	13.55
M14*1.25*25*88*10.5	M14x1.25	1.25	RH9	88	25	-	2P	4P	10.5	8	13.45
M14*1.5*25*88*10.5	M14x1.5	1.5	RH9	88	25	-	2P	4P	10.5	8	13.35
M16*2*27*95*12.5	M16	2	RH10	95	27	-	2P	4P	12.5	10	15.1
M16*1*27*95*12.5	M16x1	1	RH8	95	27	-	2P	4P	12.5	10	15.55
M16*1.5*27*95*12.5	M16x1.5	1.5	RH9	95	27	-	2P	4P	12.5	10	15.35

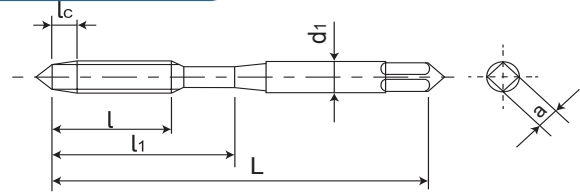
HSS MILLS

CARBIDE MILL

HSS TAP

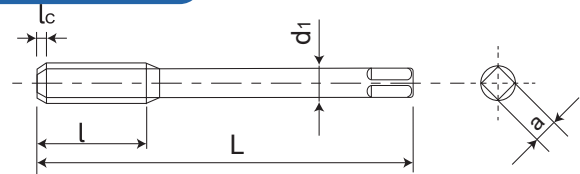
OTHER TOOL

Machine taps with extra-long and reinforced shank



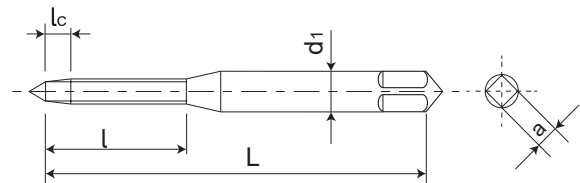
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M3*0.5*11*100*3.15	M3	0.5	H2	100	11	4P	3.15	2.5	3	2.5
M4*0.7*13*100*4	M4	0.7	H2	100	13	4P	4	3.15	3	3.3
M5*0.8*16*100*5	M5	0.8	H2	100	16	4P	5	4	3	4.2
M6*1*19*100*6.3	M6	1	H2	100	19	4P	6.3	5	3	5
M6*1*19*125*6.3	M6	1	H2	125	19	4P	6.3	5	3	5

Machine taps with extra-long and reduced shank



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M4*0.7*13*100*3.15	M4	0.7	H2	100	13	4P	3.15	2.5	3	3.3
M5*0.8*16*100*4	M5	0.8	H2	100	16	4P	4	3.15	3	4.2
M6*1*19*100*4.5	M6	1	H2	100	19	4P	4.5	3.55	3	5
M6*1*19*125*4.5	M6	1	H2	125	19	4P	4.5	3.55	3	5
M8*1.25*22*100*6.3	M8	1.25	H2	100	22	4P	6.3	5	3	6.8
M8*1.25*22*150*6.3	M8	1.25	H2	150	22	4P	6.3	5	3	6.8
M10*1.5*24*130*8	M10	1.5	H2	130	24	4P	8	6.3	3	8.5
M10*1.5*24*150*8	M10	1.5	H2	150	24	4P	8	6.3	3	8.5
M12*1.75*29*160*9	M12	1.75	H2	160	29	4P	9	7.1	4	10.3
M14*2*30*160*11.2	M14	2	H2	160	30	4P	11.2	9	4	12
M16*2*32*160*12.5	M16	2	H2	160	32	4P	12.5	10	4	14

Machine taps with left hand thread



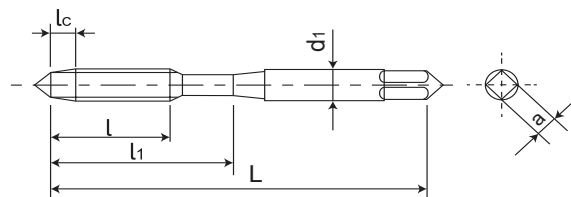
Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M3*0.5*11*40*3.15	M3	0.5	H2	40	11	4P	3.15	2.5	3	2.5
M4*0.7*13*45*4	M4	0.7	H2	45	13	4P	4	2.8	3	3.3
M5*0.8*16*50*5	M5	0.8	H2	50	16	4P	5	3.55	3	4.2
M6*1*19*55*6.3	M6	1	H2	55	19	4P	6.3	5	3	5
M8*1.25*22*65*6.3	M8	1.25	H2	65	22	4P	6.3	5	3	6.8
M10*1.5*24*70*8	M10	1.5	H2	70	24	4P	8	6.3	3	8.5
M12*1.75*29*80*9	M12	1.75	H2	80	29	4P	9	7.1	4	10.3

Sets of 3 serial taps



Pitch

Material



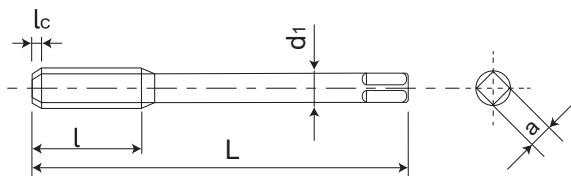
Art. Number	Size	Thread Pitch	Total Length	Thread Length	Neck Length	Chamfer Length			Shank Dia.	square width	Slots	Pre-drilled hole diameter
Size*P*I*L*d ₁	Size	P	L	I	L ₁	1st Ic	2nd Ic	3rd Ic	d ₁	a	Z	d ₀
M3*0.5*11*40*3.5	M3	0.5	40	11	18	6P	4P	2P	3.5	2.7	3	2.5
M4*0.7*13*45*4.5	M4	0.7	45	13	21	6P	4P	2P	4.5	3.4	3	3.3
M5*0.8*16*50*6	M5	0.8	50	16	24	6P	4P	2P	6	4.9	3	4.2
M6*1*19*56*6	M6	1	56	19	27	6P	4P	2P	6	4.9	3	5
M8*1.25*22*63*6	M8	1.25	63	22	-	6P	4P	2P	6	4.9	3	6.8
M10*1.5*24*70*7	M10	1.5	70	24	-	6P	4P	2P	7	5.5	3	8.5
M12*1.75*28*75*9	M12	1.75	75	28	-	6P	4P	2P	9	7	4	10.2
M14*2*30*80*11	M14	2	80	30	-	6P	4P	2P	11	9	4	12
M16*2*32*80*12	M16	2	80	32	-	6P	4P	2P	12	9	4	14

Sets of 3 uniform machine taps



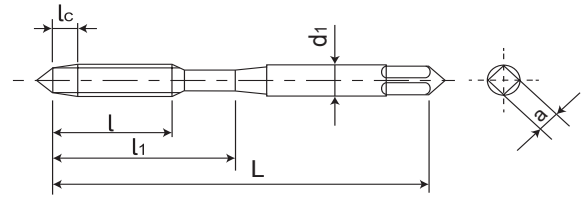
Pitch

Material



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length			Shank Dia.	square width	Slots	Pre-drilled hole diameter
Size*P*I*L*d ₁	Size	P	T	L	I	1st Ic	2nd Ic	3rd Ic	d ₁	a	Z	d ₀
M3*0.5*11*40*3.5	M3	0.5	H2	46	18	8P	5P	1.5P	4	3.2	3	2.5
M4*0.7*13*45*4.5	M4	0.7	H2	52	20	8P	5P	1.5P	5	4	3	3.3
M5*0.8*16*50*6	M5	0.8	H2	60	22	8P	5P	1.5P	5.5	4.5	3	4.2
M6*1*19*56*6	M6	1	H2	62	24	8P	5P	1.5P	6	4.5	3	5
M8*1.25*22*63*6	M8	1.25	H2	70	30	8P	5P	1.5P	6.2	5	3	6.8
M10*1.5*24*70*7	M10	1.5	H2	75	32	8P	5P	1.5P	7	5.5	3	8.5
M12*1.75*28*75*9	M12	1.75	H2	80	38	8P	5P	1.5P	8.5	6.5	3	10.3

Short shank machine taps



Art. Number	Size	Thread Pitch	Accuracy	Total Length	Thread Length	Chamfer Length	Shank Dia.	Square width	Slots	Pre-drilled hole diameter
Size*P*I*L*d ₁	Size	P	T	L	l	l _c	d ₁	a	Z	d ₀
M3*0.5*11*40*3.15	M3	0.5	H2	40	11	4P	3.15	2.5	3	2.5
M4*0.7*13*45*4	M4	0.7	H2	45	13	4P	4	2.8	3	3.3
M5*0.8*16*50*5	M5	0.8	H2	50	16	4P	5	3.55	3	4.2
M6*1*19*55*6.3	M6	1	H2	55	19	4P	6.3	5	3	5
M8*1.25*22*65*6.3	M8	1.25	H2	65	22	4P	6.3	5	3	6.8
M10*1.5*24*70*8	M10	1.5	H2	70	24	4P	8	6.3	3	8.5
M12*1.75*29*80*9	M12	1.75	H2	80	29	4P	9	7.1	4	10.3

HSS MILL

CARBIDE MILL

HSS TAP

OTHER TOOL

04

OTHER TOOL

 **RAPID CUSTOMIZATION** P58

 **REAMERS** P59

 **ROLLING TOOLS** P59

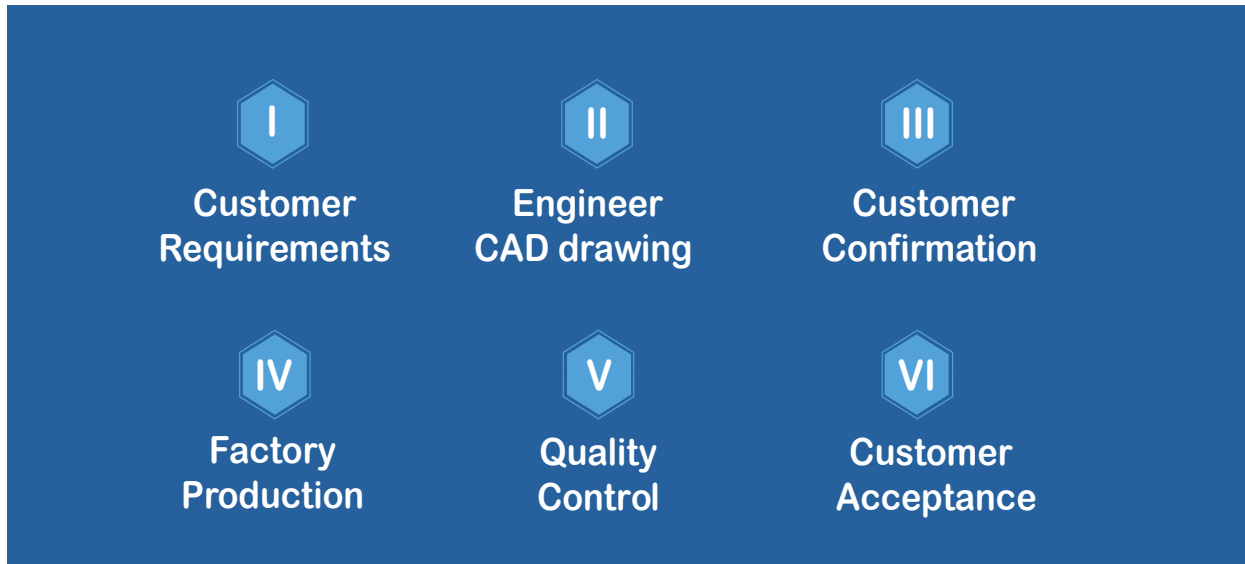
 **NUT TAPS** P59

 **DRILLS** P60

 **INLAID ALLOY TOOLS** P60

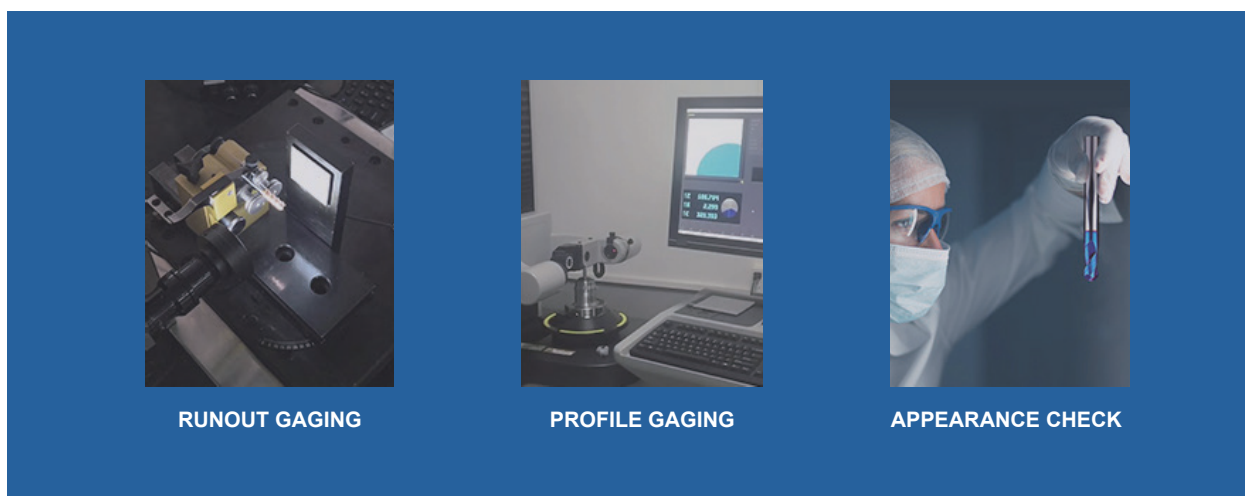
Rapid customization

Rapid customization process for non-standard tools



Factory processing operation

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



HSS MILLS

CARBIDE MILL

HSS TAP

OTHER TOOL

REAMERS



TYPE

Machine Reamers
Machine-Hand Reamers
Straight shank
Taper-shank

MATERIAL

HSS-6542
HSS-M35
HSS-M42

COATING

TiN
TiCN

ROLLING TOOLS



FEATURES

DIAMETER

From 4mm to 300mm

WORKING LENGTH

From 30mm to 600mm

Ra0.02μm~0.4μm

TYPE

Blind hole
Through hole
Tapered hole
Straight shank
Taper-shank

NUT TAPS



TYPE

Composite Nut taps
Nut taps for Stainless Steel
Nut taps for Carbon Steel

COATING

TiN
TiCN

MATERIAL

HSS-M35
HSS-M42

REPLACEABLE ALLOY DRILLS

TYPE

Rapid Centering Drills
Violent Drills

FEATURES

DIAMETER

From 12mm to 40mm

WORKING LENGTH

3D, 5D, 7D, 10D



TAPER SHANK DRILLS

TYPE

DIN345
DIN341

MATERIAL

HSS-6542
HSS-M35
HSS-M42

COATING

TiN
TiCN



STRAIGHT SHANK DRILLS

TYPE

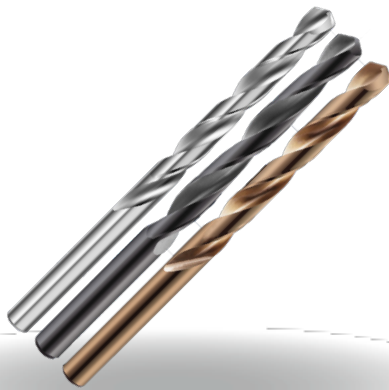
DIN338
DIN340

COATING

TiN
TiCN

MATERIAL

HSS-6542
HSS-M35
HSS-M42



INLAID ALLOY TOOLS

TYPE

Mills
Reamers
Drills

MATERIAL

YG8
YG10
YG12

