

GREAT CUTTING TOOLS OF SHANGHAI EMING MOULD





Our workshop is professionally specialized in producing annular cutters. All the cutters are produced by German and Japan made CNC machines equipped with 3D testing equipment. The quality of the cutters is totally controlled by ISO9000 so as to guarantee the cutters to meet customers' need.

All kinds of our annular cutters are made of HSS M2, M35 or M42. The popular lengths of the cutters are 30 MM, 50 MM or 100MM, etc., which are suitable for all sorts of magnetic drilling machines, general drilling machines and milling machines. The cutters are widely used in various kinds steel building of railways, bridges, boilers and ships. Now the annular cutters are most popular and ideal cutting tools in the line of drilling industry.

We are also developing TCT cutters for rail steel and also M42 twist drills with weldon shank for small size holes.

We can do surface coating of TiN, TiCN and TiALN for you.



N1110-A

ANNULAR CUTTERS-WELDON SHANK



Made of super high speed steel, M2, M35, or M42.

Tin-coated

Fully ground process, superiorly-designed cut geometry, smooth cutting.

Weldon shank, suitable for all types of magdrills, radial drilling machine, boring machine, milling machine.

Metic	Inch	Metic	Inch	Metic	Inch	Metic	Inch
Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia
L=25mm	L=1"	L=50mm	L=2"	L=75mm	L=3"	L=100mm	L=4"
12	7/16	12	7/16				
13	1/2	13	1/2				
14	9/16	14	9/16				
15		15					
16	5/8	16	5/8				
17	11/16	17	11/16				
18		18					
19	3/4	19	3/4				
20	13/16	20	13/16	20	13/16		
21		21		21			
22	7/8	22	7/8	22	7/8		
23		23		23			
24	15/16	24	15/16	24	15/16	24	15/16
25	1"	25	1"	25	1"	25	1"
26		26		26		26	
27	1-1/16	27	1-1/16	27	1-1/16	27	1-1/16
28	1-1/8	28	1-1/8	28	1-1/8	28	1-1/8
29		29		29		29	
30	1-3/16	30	1-3/16	30	1-3/16	30	1-3/16
31		31		31		31	
32	1-1/4	32	1-1/4	32	1-1/4	32	1-1/4
33	1-5/16	33	1-5/16	33	1-5/16	33	1-5/16
34		34		34		34	
35	1-3/8	35	1-3/8	35	1-3/8	35	1-3/8
36		36		36		36	
37		37		37		37	
38	1-1/2	38	1-1/2	38	1-1/2	38	1-1/2
39		39		39		39	
40	1-9/16	40	1-9/16	40	1-9/16	40	1-9/16
41	1-5/8	41	1-5/8	41	1-5/8	41	1-5/8
42		42		42		42	
43		43		43		43	
44	1-3/4	44	1-3/4	44	1-3/4	44	1-3/4
45		45		45		45	
46	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16
47		47		47		47	

48	1-7/8	48	1-7/8	48	1-7/8	48	1-7/8
49	1-15/16	49	1-15/16	49	1-15/16	49	1-15/16
50	2"	50	2"	50	2"	50	2"
51		51		51		51	
52	2-1/16	52	2-1/16	52	2-1/16	52	2-1/16
53		53		53		53	
54	2-1/8	54	2-1/8	54	2-1/8	54	2-1/8
55	2-3/16	55	2-3/16	55	2-3/16	55	2-3/16
56		56		56		56	
57	2-1/4	57	2-1/4	57	2-1/4	57	2-1/4
58		58		58		58	
59	2-5/16	59	2-5/16	59	2-5/16	59	2-5/16
60	2-3/8	60	2-3/8	60	2-3/8	60	2-3/8
61		61		61		61	
62		62		62		62	
63	2-1/2	63	2-1/2	63	2-1/2	63	2-1/2
64		64		64		64	
65	2-9/16	65	2-9/16	65	2-9/16	65	2-9/16
66		66		66		66	
67	2-5/8	67	2-5/8	67	2-5/8	67	2-5/8
68	2-11/16	68	2-11/16	68	2-11/16	68	2-11/16
69		69		69		69	
70	2-3/4	70	2-3/4	70	2-3/4	70	2-3/4
71	2-13/16	71	2-13/16	71	2-13/16	71	2-13/16
72		72		72		72	
73	2-7/8	73	2-7/8	73	2-7/8	73	2-7/8
74	2-15/16	74	2-15/16	74	2-15/16	74	2-15/16
75	3"	75	3"	75	3"	75	3"

Pilot pin

6.34*77 mm



6.34*102 mm

6.34*127 mm



6.34*152 mm

N1110-B

ANNULAR CUTTERS-FEIN QUICK-IN SHANK



Made of super high speed steel, M2, M35, or M42.

Fully ground process, superiorly-designed cut geometry, smooth cutting.

FEIN QUICK-IN SHANK, suitable for FEIN magdrill

Metic	Inch
Cutter Dia	Cutter Dia
L=35mm	L=1 3/8
12 mm	7/16
13 mm	1/2
14 mm	9/16
15 mm	5/8
16 mm	11/16
17 mm	3/4
18 mm	13/16
19 mm	7/8
20 mm	15/16
21 mm	1"
22 mm	1-1/16
23 mm	1-1/8
24 mm	1-3/16
25 mm	1-1/4
26 mm	1-5/16
27 mm	1-3/8
28 mm	1-1/2
29 mm	1-9/16
30 mm	1-5/8
31 mm	1-3/4
32 mm	1-13/16
33 mm	1-7/8
34 mm	1-15/16
35 mm	2"
36 mm	2-1/16
37 mm	2-1/8
38 mm	2-3/16
39 mm	2-1/4
40 mm	2-5/16
	3"

Pilot pin



6.34*77 mm



6.34*102 mm

N1110-C

ANNULAR CUTTERS-ONE TOUCH SHANK



Made of super high speed steel, M2, M35, or M42.

TiALN-coated

Fully ground process, superiorly-designed cut geometry, smooth cutting.

One touch shank, suitable for all types of magdrills, radial drilling machine, boring machine, milling machine.

Metic	Inch	Metic	Inch	Metic	Inch	Metic	Inch
Cutter Dia L=25mm	Cutter Dia L=1"	Cutter Dia L=50mm	Cutter Dia L=2"	Cutter Dia L=75mm	Cutter Dia L=3"	Cutter Dia L=100mm	Cutter Dia L=4"
12	7/16	12	7/16				
13	1/2	13	1/2				
14	9/16	14	9/16				
15		15					
16	5/8	16	5/8				
17	11/16	17	11/16				
18		18					
19	3/4	19	3/4				
20	13/16	20	13/16	20	13/16		
21		21		21			
22	7/8	22	7/8	22	7/8		
23		23		23			
24	15/16	24	15/16	24	15/16	24	15/16
25	1"	25	1"	25	1"	25	1"
26		26		26		26	
27	1-1/16	27	1-1/16	27	1-1/16	27	1-1/16
28	1-1/8	28	1-1/8	28	1-1/8	28	1-1/8
29		29		29		29	
30	1-3/16	30	1-3/16	30	1-3/16	30	1-3/16
31		31		31		31	
32	1-1/4	32	1-1/4	32	1-1/4	32	1-1/4
33	1-5/16	33	1-5/16	33	1-5/16	33	1-5/16
34		34		34		34	
35	1-3/8	35	1-3/8	35	1-3/8	35	1-3/8
36		36		36		36	
37		37		37		37	
38	1-1/2	38	1-1/2	38	1-1/2	38	1-1/2
39		39		39		39	
40	1-9/16	40	1-9/16	40	1-9/16	40	1-9/16
41	1-5/8	41	1-5/8	41	1-5/8	41	1-5/8
42		42		42		42	
43		43		43		43	
44	1-3/4	44	1-3/4	44	1-3/4	44	1-3/4
45		45		45		45	
46	1-13/16	46	1-13/16	46	1-13/16	46	1-13/16
47		47		47		47	

48	1-7/8	48	1-7/8	48	1-7/8	48	1-7/8
49	1-15/16	49	1-15/16	49	1-15/16	49	1-15/16
50	2"	50	2"	50	2"	50	2"
51		51		51		51	
52	2-1/16	52	2-1/16	52	2-1/16	52	2-1/16
53		53		53		53	
54	2-1/8	54	2-1/8	54	2-1/8	54	2-1/8
55	2-3/16	55	2-3/16	55	2-3/16	55	2-3/16
56		56		56		56	
57	2-1/4	57	2-1/4	57	2-1/4	57	2-1/4
58		58		58		58	
59	2-5/16	59	2-5/16	59	2-5/16	59	2-5/16
60	2-3/8	60	2-3/8	60	2-3/8	60	2-3/8
61		61		61		61	
62		62		62		62	
63	2-1/2	63	2-1/2	63	2-1/2	63	2-1/2
64		64		64		64	
65	2-9/16	65	2-9/16	65	2-9/16	65	2-9/16
66		66		66		66	
67	2-5/8	67	2-5/8	67	2-5/8	67	2-5/8
68	2-11/16	68	2-11/16	68	2-11/16	68	2-11/16
69		69		69		69	
70	2-3/4	70	2-3/4	70	2-3/4	70	2-3/4
71	2-13/16	71	2-13/16	71	2-13/16	71	2-13/16
72		72		72		72	
73	2-7/8	73	2-7/8	73	2-7/8	73	2-7/8
74	2-15/16	74	2-15/16	74	2-15/16	74	2-15/16
75	3"	75	3"	75	3"	75	3"

Pilot pin

6.34*77 mm



6.34*102 mm

6.34*127 mm



6.34*152 mm

N1110-D

ANNULAR CUTTERS-THREAD SHANK



Made of super high speed steel, M2, M35, or M42.

Fully ground process, superiorly-designed cut geometry, smooth cutting.

Thread shank, suitable for FEIN/HITACHI and all types of magdrills radial drilling machine, boring machine, milling machine.

Metic	Inch	Metic	Inch
Cutter Dia	Cutter Dia	Cutter Dia	Cutter Dia
L=25mm	L=1"	L=50mm	L=2"
12	7/16	12	7/16
13	1/2	13	1/2
14	9/16	14	9/16
15		15	
16	5/8	16	5/8
17	11/16	17	11/16
18		18	
19	3/4	19	3/4
20	13/16	20	13/16
21		21	
22	7/8	22	7/8
23		23	
24	15/16	24	15/16
25	1"	25	1"
26		26	
27	1-1/16	27	1-1/16
28	1-1/8	28	1-1/8
29		29	
30	1-3/16	30	1-3/16
31		31	
32	1-1/4	32	1-1/4
33	1-5/16	33	1-5/16
34		34	
35	1-3/8	35	1-3/8
36		36	
37		37	
38	1-1/2	38	1-1/2
39		39	
40	1-9/16	40	1-9/16
41	1-5/8	41	1-5/8
42		42	
43		43	
44	1-3/4	44	1-3/4
45		45	
46	1-13/16	46	1-13/16

47		47	
48	1-7/8	48	1-7/8
49	1-15/16	49	1-15/16
50	2"	50	2"
51		51	
52	2-1/16	52	2-1/16
53		53	
54	2-1/8	54	2-1/8
55	2-3/16	55	2-3/16
56		56	
57	2-1/4	57	2-1/4
58		58	
59	2-5/16	59	2-5/16
60	2-3/8	60	2-3/8
61		61	
62		62	
63	2-1/2	63	2-1/2
64		64	
65	2-9/16	65	2-9/16
66		66	
67	2-5/8	67	2-5/8
68	2-11/16	68	2-11/16
69		69	
70	2-3/4	70	2-3/4
71	2-13/16	71	2-13/16
72		72	
73	2-7/8	73	2-7/8
74	2-15/16	74	2-15/16
75	3"	75	3"

Pilot pin



6.34*77 mm



6.34*102 mm













N1110-E**ACCESSORIES**

Different types of tools holders with morse taper No.2-5.




50mm-100mm D.O.C with or without internal cooling are all available.

All types of adapters, arbor extensions are also available.

Cutters or accessories for special purpose are also available.

Part.No.	Tool holder	
N1110-E1	Morse taper No.5 19mm weldon, 100mm D.O.C.With internal cooling	
N1110-E2	Morse taper No.3 32mm weldon, 50mm D.O.C.With internal cooling	
N1110-E3	Morse taper No.4 32mm weldon, 50mm D.O.C.With internal cooling	
N1110-E4	Morse taper No.3 32mm weldon, 75mm D.O.C.With internal cooling	
N1110-E5	Morse taper No.4 32mm weldon, 75mm D.O.C.With internal cooling	
N1110-E6	Morse taper No.5 32mm weldon, 75mm D.O.C.With internal cooling	
N1110-E7	Morse taper No.3 32mm weldon, 100mm D.O.C.With internal cooling	
N1110-E8	Morse taper No.4 32mm weldon, 100mm D.O.C.With internal cooling	
N1110-E9	Morse taper No.5 32mm weldon, 100mm D.O.C.With internal cooling	
N1110-E10	Morse taper No.2 thread, 50mm D.O.C.With internal cooling	
N1110-E11	Morse taper No.3 thread, 50mm D.O.C.With internal cooling	
N1110-E12	19mm weldon shank / Morse taper B16	

ACCESSORIES

N1110-E13	One-touch shank / Morse taper B16	
N1110-E14	FEIN Quick-IN shank / Morse taper B16	
N1110-E15	One-touch shank / 19mm shank	
N1110-E16	FEIN Quick-IN shank / 19mm weldon	
N1110-E17	Thread shank / 19mm weldon	
N1110-E18	Arbor extension for 25mm	
N1110-E19	Arbor extension for 50mm	
N1110-E20	Arbor extension for 75mm	
N1110-E21	Arbor extension for 100mm	



N1120

Normal hole drills

Applications:

It drills holes on materials such as plastic, cast iron, aluminum alloy and carbon steel within 5mm, stainless steel square pipes and plates within 3mm. The edge part is formed in one piece by the full automatic digital control grinder. Having high precision, light cutting and no burrs around hole side, its working life is 3 time more than the products with the same price class.

Diameter		Total length(mm)	drilling deep(mm)	shank dia(mm)
mm	inch			
15	9/16"	67	13	9.5
16	5/8"	67	13	9.5
17	11/16"	67	13	9.5
18	11/16"	67	13	9.5
19	3/4"	67	13	9.5
20	13/16"	67	13	9.5
21	13/16"	67	13	9.5
22	7/8"	67	13	9.5
23	7/8"	67	13	9.5
24	15/16"	67	13	9.5
25	1	67	13	9.5
25.5	1	67	13	9.5
26	1	67	13	9.5
28	1-1/8"	67	13	9.5
30	1-3/16"	67	13	9.5
32	1-1/4"	67	13	9.5
35	1-3/8"	67	13	9.5
38	1-1/2"	67	13	9.5
40	1-9/16"	67	13	9.5
42	1-5/8"	67	13	9.5
45	1-3/4"	67	13	9.5
48	1-7/8"	67	13	9.5
50	1-15/16"	67	13	9.5
53	2-1/16"	67	13	9.5
55	2-3/16"	67	13	9.5
60	2-3/8"	67	13	11
65	2-9/16"	67	13	11
70	2-3/4"	67	13	11
75	2-15/16"	67	13	11
80	3-1/8"	67	13	11
85	3-1/8"	67	13	11



N1125

Long type Hard alloy drill

Purpose:

It drills holes on materials such as plastic, cast iron, aluminum alloy and carbon steel within 15mm, stainless steel square pipes and plates within 10mm. The edge part is formed in one piece by the full automatic digital control grinder. Having high precision, firm, sharp edge, light cutting and flattening hole side without burrs and inner concave.

Diameter		Total length(mm)	drilling deep(mm)	shank dia(mm)
mm	inch			
15	9/16"	81	16	9.5
16	5/8"	81	16	9.5
17	11/16"	81	16	9.5
18	11/16"	81	16	9.5
19	3/4"	81	16	9.5
20	13/16"	81	16	9.5
21	13/16"	81	16	9.5
22	7/8"	81	16	9.5
23	7/8"	81	16	9.5
24	15/16"	81	16	9.5
25	1	81	16	9.5
25.5	1	81	16	9.5
26	1	81	16	9.5
28	1-1/8"	81	16	9.5
30	1-3/16"	81	16	9.5
32	1-1/4"	81	16	9.5
35	1-3/8"	81	16	9.5
38	1-1/2"	81	16	9.5
40	1-9/16"	81	16	9.5
42	1-5/8"	81	16	9.5
45	1-3/4"	81	16	9.5
48	1-7/8"	81	16	9.5
50	1-15/16"	81	16	9.5
53	2-1/16"	81	16	9.5
55	2-3/16"	81	16	9.5

60	2-3/8"	81	16	11
65	2-9/16"	81	16	11
70	2-3/4"	81	16	11
75	2-15/16"	81	16	11
80	3-1/8"	81	16	11
85	3-1/8"	81	16	11



N1130

fully ground HSS hole drill

It drills holes on materials such as plastic castiron, aluminum alloy and carbon steel within 1.5mm. It is mainly used in industries such as electric switch cabinets, decorating security doors, cupboard, etc. Having performances of the product exceed the same kind of Japanese products makes the performance price rate three times more.

Diameter		Total length(mm)	drilling deep(mm)	Shank dia(mm)
mm	inch			
12	1/2"	70	5	6.5
13	1/2"	70	5	6.5
14	9/16"	70	5	7.2
15	9/16"	70	5	7.2
16	5/8"	70	5	7.2
17	11/16"	70	5	7.2
18	11/16"	70	5	7.2
19	3/4"	70	5	7.2
20	13/16"	70	5	7.2
21	13/16"	70	5	7.2
22	7/8"	70	5	7.2
23	7/8"	70	5	7.2
24	15/16"	70	5	7.2
25	1	70	5	7.2
26	1	70	5	7.2
28	1-1/8"	70	5	7.2
30	1-3/16"	70	5	9.5
32	1-1/4"	70	5	9.5
35	1-3/8"	70	5	9.5
38	1-1/2"	70	5	9.5
40	1-9/16"	70	5	9.5
42	1-5/8"	70	5	11.5
45	1-3/4"	70	5	11.5

48	1-7/8"	70	5	11.5
50	1-15/16"	70	5	11.5
53	2-1/16"	70	5	11.5
55	2-3/16"	70	5	11.5
60	2-3/8"	70	5	11.5
65	2-9/16"	70	5	11.5
70	2-3/4"	70	5	11.5
75	2-15/16"	70	5	11.5
80	3-1/8"	70	5	11.5
85	3-1/8"	70	5	11.5



N1135

M42 Bi-Metal Hole Saw

It drills holes on materials such as plastic, cast iron, aluminum alloy and carbon steel within drilling hole depth 28mm, mostly used in pipe. It is widely used in industries such as electric switch cabinets, decorating security doors, ship building, environmental protection equipment, mechanical engineering, boiler manufacturing, fire annihilator pipe installation, oil feed pipe, etc.

Diameter		Total length(mm)	drilling deep(mm)	shank dia(mm)
				mm
	mm			inch
19	3/4"	101	31	9.2
21	13/16"	101	31	9.2
22	7/8"	101	31	9.2
23	7/8"	101	31	9.2
25	1	101	31	9.2
27	1-1/16"	101	31	9.2
29	1-1/8"	101	31	9.2
30	1-3/16"	101	31	9.2
32	1-1/4"	101	31	9.2
33	1-5/16"	101	31	9.2
35	1-3/8"	101	31	9.2
37	1-7/16"	101	31	9.2
38	1-1/2"	101	31	11
40	1-9/16"	101	31	11
42	1-5/8"	101	31	11
45	1-3/4"	101	31	11
48	1-7/8"	101	31	11
50	1-15/16"	101	31	11
53	2-1/16"	101	31	11
55	2-3/16"	101	31	11

60	2-3/8"	101	31	11
65	2-9/16"	101	31	11
70	2-3/4"	101	31	11
75	2-15/16"	101	31	11
79	3-1/8"	101	31	11
80	3-1/8"	101	31	11
81	3-3/16"	101	31	11
83	3-1/4"	101	31	11
85	3-3/8"	101	31	11
89	3-1/2"	101	31	11
90	3-9/16"	101	31	11
92	3-5/8"	101	31	11
95	3-3/4"	101	31	11
100	3-15/16"	101	31	11
102	4"	101	31	11
114	4-1/2"	101	31	11
115	4-1/2"	101	31	11
120	4-3/4"	101	31	11
125	4-15/16"	101	31	11
130	5-1/8"	101	31	11
140	5-1/2"	101	31	11
150	5-7/8"	101	31	11



N1140

HSS hole cutter for steel stainless round pipe, square pipe and sheet metal

Diameter		Total length(mm)	drilling deep(mm)
mm			
14		70	5
15		70	5
16		70	5
17		70	5
18		70	5
19		70	5
20		70	5
21		70	5
22		70	5
23		70	5
25		70	5
26		70	5
28		70	5
30		70	5

32		70	5
35		70	5
38		70	5
40		70	5
42		70	5
45		70	5
48		70	5
50		70	5
53		70	5
55		70	5
60		70	5
65		70	5
70		70	5
75		70	5
80		70	5



N1145

TCT hole cutters for rail hardened steel, with weldon shank of 19 mm

Dia.(mm)	Dia.(mm)
21	28
22	30
23	31
24	32
25	33
26	34
27	36



N1150

TCT hole cutters for cast iron sheet metal, with cutting depth of 10 mm, 30 mm and 50 mm with weldon shank 19 mm for magnetic drills.

SIZE(mm)	SIZE(mm)
18	43
19	44
20	45
21	46
22	47
23	48
24	49
25	50
26	51
27	52
28	53
29	54
30	55
31	56
32	57
33	58
34	59
35	60
36	Adpater
37	Pilot drill 6MM
38	Pilot drill 8MM
39	Adapter3#
40	Adapter4#
41	Center pin 8 x 85
42	Center pin 8 x 110