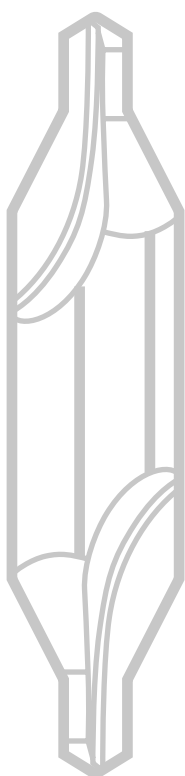


MingHong

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

CENTRE DRILLS



ZHEJIANG MINGHONG PRECISION TECHNOLOGY CO., LTD

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ABOUT MINGHONG

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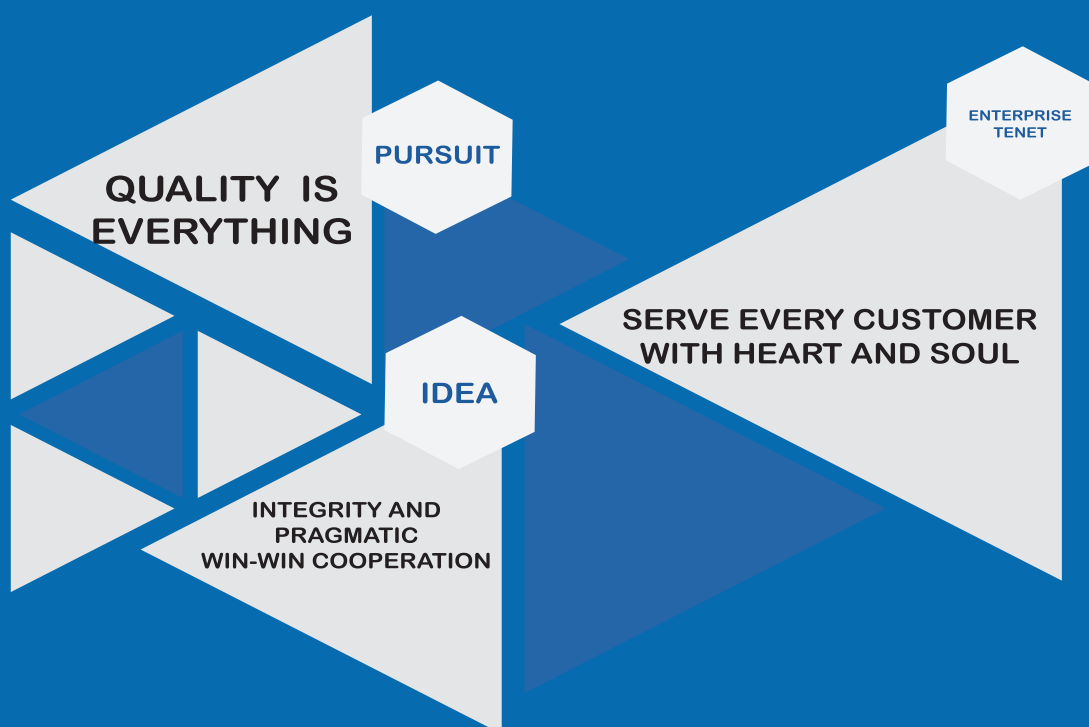
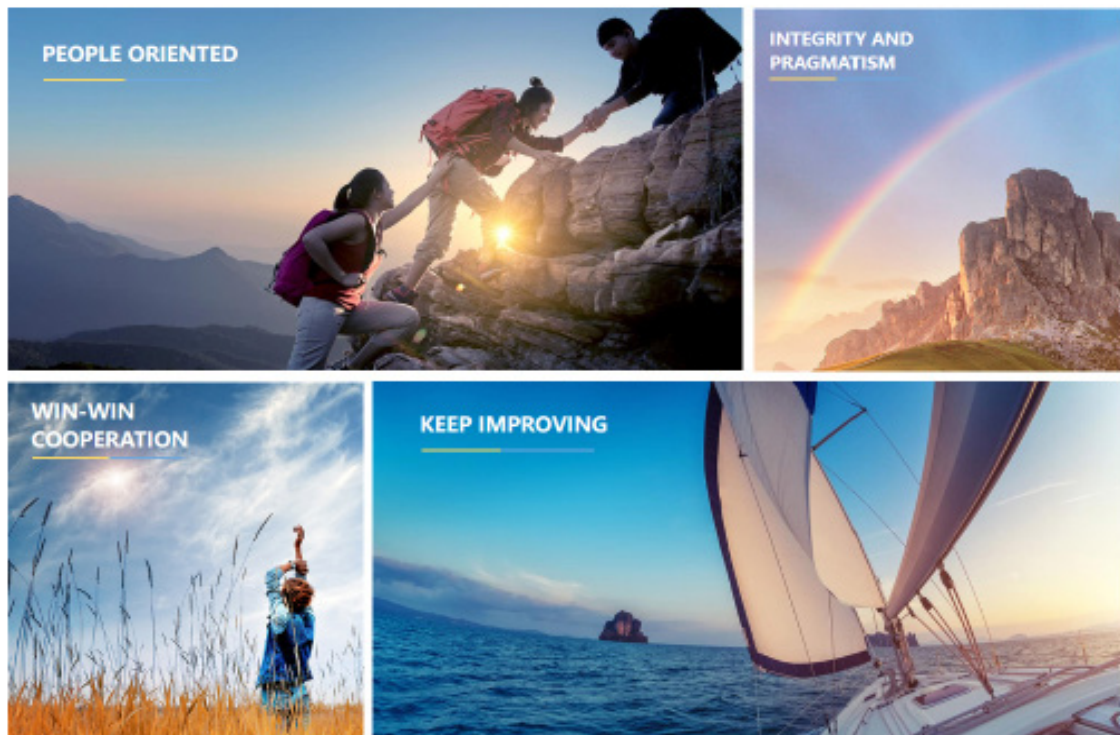
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CORE VALUES





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

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.

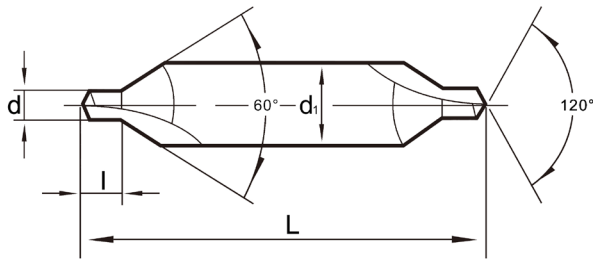
The company's products are widely used in 3C consumer electronics, molds, graphite, automobiles, medical equipment and other processing and manufacturing fields. Customers are located in China, South Korea, Japan, Russia and other countries and regions, and strive to build a dedicated, professional and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

The Center Drill A



General-purpose 60-degree and 90-degree options



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

d1 x d	L	I
h9 k12	±2	mini maxi
3.15x1.0	31	1.3-1.7
3.15x1.25	31	1.6-2.0
4.0x1.0	35	1.3-1.7
4.0x1.25	35	1.6-2.0
4.0x1.6	35	2.0-2.6
5.0x1.5	40	2.0-2.6
5.0x2.0	40	2.5-3.1
6.0x2.0	45	2.5-3.1
6.3x2.0	45	2.5-3.1
6.3x2.5	45	3.1-3.8
8.0x2.5	50	3.1-3.8
8.0x3.0	50	3.9-4.6
8.0x3.15	50	3.9-4.6
10.0x3.0	55	3.9-4.6
10.0x4.0	55	5.0-5.9
12.0x4.0	63	5.0-5.9
12.0x5.0	63	6.3-7.2
12.5x4.0	63	5.0-5.9
12.5x5.0	63	6.3-7.2
16.0x6.3	71	8.0-8.9
20.0x8.0	80	10.1-11.1
25.0x10.0	100	12.8-13.8
31.5x12.5	125	16.5-17.5

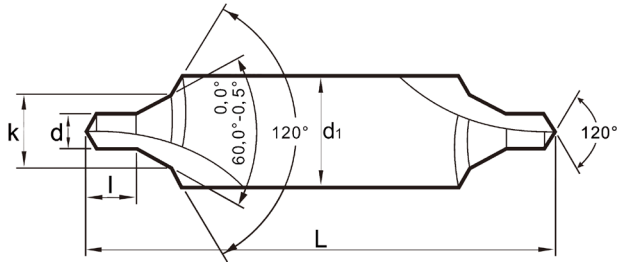
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- High-grade high-speed steel/cemented carbide material manufacturing, with high wear resistance, long service life;
- The use of advanced numerical control equipment processing, to ensure high-quality stability and consistency;
- The CBN grinding wheel is fully ground to ensure good finish and sharp edge;
- Improved cutting edge angle to ensure smooth and efficient cutting;
- Reasonable design of chip-containing groove ensures smooth and light chip discharge;
- The conical surface is provided with a continuous back angle;
- Suitable for processing steel, iron castings, non-ferrous parts and light metals;

- Can be customized for production



The Center Drill B



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

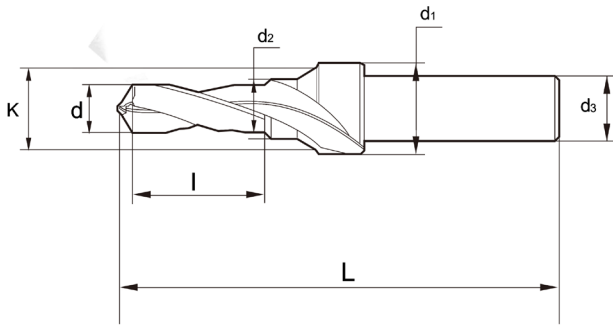
d1 x d	L	K	I
			mini maxi
4.0x1.0	35	2.1	1.3-1.7
5.0x1.25	40	2.6	1.6-2.0
6.3x1.6	45	3.3	2.0-2.6
8.0x2.0	50	4.2	2.5-3.1
10.0x2.5	55	5.2	3.1-3.8
11.2x3.15	61	6.7	3.9-4.6
14.0x4.0	67	8.5	5.0-5.9
18.0x5.0	75	10.6	6.3-7.2
20x6.3	80	13.2	8.0-8.9
25x8.0	100	17	10.1-11.1
31.5x10	125	21.2	12.8-13.8

- The 60-degree taper hole is the machining reference center
- A 120 degree bevel ensures the center datum is free from damage
- The 120 degree opening angle makes the automatic feed easier to enter the cutting position
- Make sure the next process is more smooth
- Mainly used for precision workpiece processing

The center drill, which integrates drilling and chamfering, is mainly used in machining the center hole of the workpiece. The center hole is the rotary reference and support hole of the workpiece in the machining process, especially in the turning process. Center drills can also be used for chamfering and drilling

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- Reasonable design of chip-containing groove ensures smooth and light chip discharge;
- The conical surface is provided with a continuous back angle;
- Suitable for processing steel, iron castings, non-ferrous parts and light metals;
- Can be customized for production

The Center Drill C



RAPID DRILLING



DURABLE CONSTRUCTION



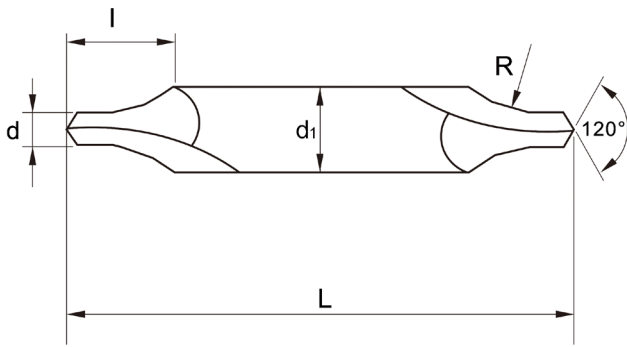
DEBRIS EVACUATION

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The Center Drill R



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

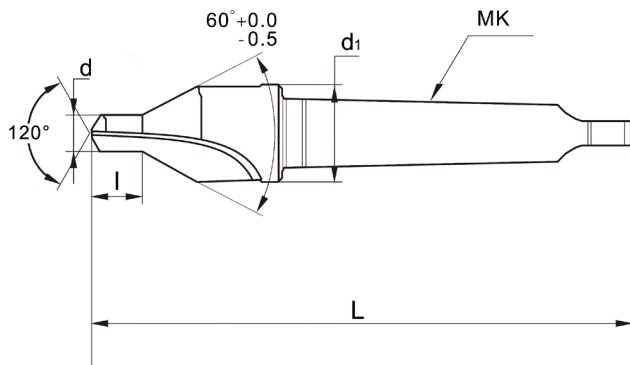
Data.

d1 x d	L	R	I
h9 k12	±2	1.25R	mini maxi
3.15x1.0	31	2.9	3.0-3.3
3.15x1.25	31	3.15	3.3-3.6
4.0x1.0	35	3.9	3.3-3.6
4.0x1.25	35	4	3.7-4.1
4.0x1.6	35	4	4.2-4.7
5.0x1.5	40	5	4.5-4.9
5.0x2.0	40	5	5.0-5.4
6.0x2.0	45	5.8	5.4-5.8
6.3x2.0	45	6.3	5.6-6.0
6.3x2.5	45	6.3	6.3-6.8
8.0x2.5	50	8	7.5-8.0
8.0x3.0	50	8	8.0-8.5
8.0x3.15	50	8	8.0-8.5
10.0x3.0	55	10	8.9-9.4
10.0x4.0	55	10	10-10.6
12x4.0	63	11.5	10.7-11.3
12x5.0	63	11.5	11.4-12.0
12.5x4.0	63	12.5	11.2-11.8
12.5x5.0	63	12.5	12.5-13.1
16x6.3	71	16	16.0-16.6
20.0x8.0	80	20	20.0-20.7
25.0x10.0	100	25	25.0-25.7
31.5x12.5	125	31.5	31.5-32.3

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- Reasonable design of chip-containing groove ensures smooth and light chip discharge;
- The conical surface is provided with a continuous back angle;
- Suitable for processing steel, iron castings, non-ferrous parts and light metals;
- Can be customized for production

Taper Shank Type A Center Drill



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

d1 x d	L	I	MK	60°
h9 k12	±2	mini maxi		
12.0x3.0	118	3.9-4.6	1	●
12.0x4.0	118	5.0-5.9	1	●
16.0x5.0	120	6.3-7.2	2	●
16.0x6.3	120	8.0-8.9	2	●
22.0x8.0	125	10.1-11.1	2	●
25.0x10.0	130	12.8-13.8	2	●
25.0x10.0	152	12.8-13.8	3	●
32.0x12.0	142	16.0-17.0	2	●
32.0x12.0	162	16.0-17.0	3	●
34.0x14.0	168	18.0-19.0	3	●
40.0x16.0	175	20.5-21.5	3	●
45.0x18.0	206	23.5-24.5	4	●
47.0x20.0	214	25.5-26.5	4	●
60.0x24.0	227	31.0-32.0	4	●
72.0x30.0	272	39.0-40.0	5	●

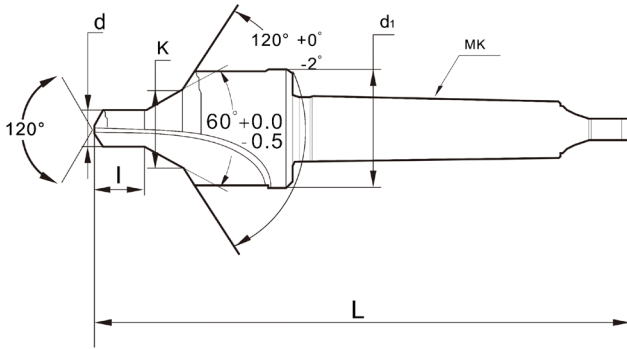
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- Reasonable design of chip-containing groove ensures smooth and light chip discharge;
- The conical surface is provided with a continuous back angle;
- Suitable for processing steel, iron castings, non-ferrous parts and light metals;

- Can be customized for production



Taper Shank Type B Center Drill



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

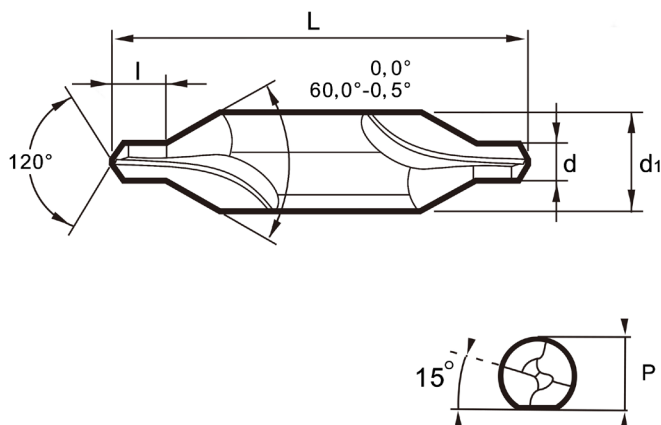
d1 x d	L	I	MK	60°
h9 k12	±2	mini maxi		
20.0x6.3	125	8.0-8.9	2	●
25.0x8.0	125	10.1-11.1	2	●
31.5x10.0	135	12.8-13.8	2	●
31.5x10.0	155	12.8-13.8	3	●
34.0x12.0	163	16.0-17.0	3	●
40.0x14.0	165	18.0-19.0	3	●
47.0x16.0	200	20.5-21.5	4	●
50.0x18.0	208	23.5-24.5	4	●
60.0x20.0	214	25.5-26.5	4	●
60.0x24.0	222	31.0-32.0	4	●
80.0x30.0	270	39.0-40.0	5	●

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- Suitable for processing steel, iron castings, non-ferrous parts and light metals;

- Can be customized for production

Flat Shank Type A



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

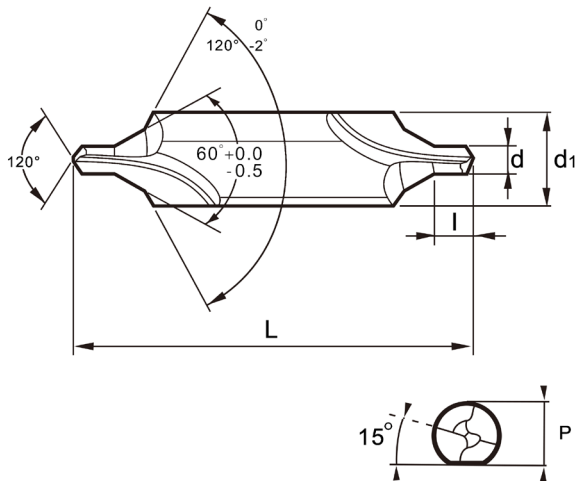
d1 x d	L	l	P
h9 k12	±2	mini maxi	-0.1
4.0x1.6	35	2.0-2.6	3.25
5.0x2.0	40	2.5-3.1	4.2
6.3x2.5	45	3.1-3.8	5.35
8.0x3.15	50	3.9-4.6	6.95
10.0x4.0	55	5.0-5.9	8.4
12.5x5.0	63	6.3-7.2	10.95
16.0x6.3	71	8.0-8.9	14
20.0x8.0	80	10.1-11.1	17.9
25.0x10.0	100	12.8-13.8	22.5

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Flat Shank Type B



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

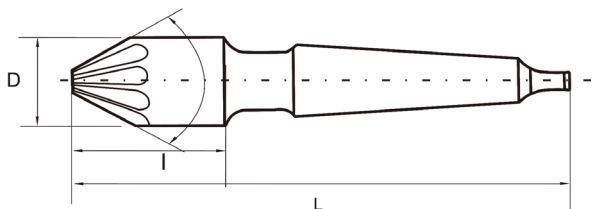
Data.

d1 x d	L	K	I	P
h9 k12	±2	js13	mini maxi	-0.1
6.3x1.6	45	3.3	2.0-2.6	5.35
8.0x2.0	50	4.2	2.5-3.1	6.95
10.0x2.5	55	5.2	3.1-3.8	8.4
11.2x3.15	61	6.7	3.9-4.6	10
14.0x4.0	67	8.5	5.0-5.9	12.65
18.0x5.0	75	10.6	6.3-7.2	16.4
20x6.3	80	13.2	8.0-8.9	17.9
25x8.0	100	17	10.1-11.1	22.5
31.5x10	125	21.2	12.8-13.8	28.4

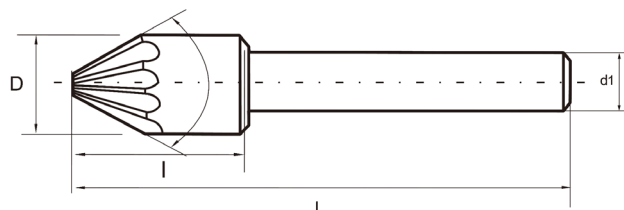
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Chamfer Drill



Taper shank countersunk drill



Straight shank countersunk drill



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

- CBN grinding wheel fully grinding manufacturing to ensure good finish, sharp cutting edge;
- Large chip chute ensures rapid chip removal;
- Standard front Angle ensures effective chip;
- The cone has a continuous back Angle, easy to regrind the cutting edge;
- Smooth cutting, no vibration;
- Ideal self-centering ability;
- Widely used in the processing of steel, cast iron, non-ferrous metals and light metals.

Taper shank countersunk drill

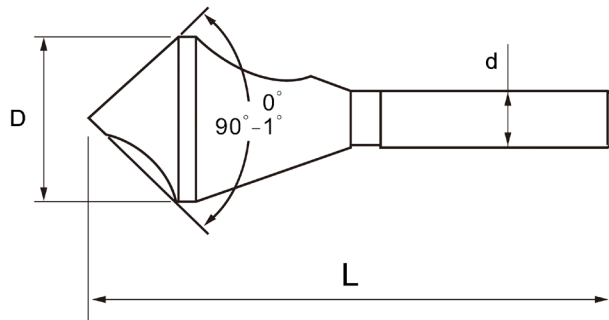
φD (mm)	MK	L(mm)			l(mm)		
		60°	90°	120°	60°	90°	120°
14	1	97	97	93	23	21	21
16	1	97	97	93	23	21	21
18	2	120	120	116	27	23	23
20	2	120	120	116	27	23	23
22	2	120	120	116	27	23	23
25	2	125	125	119	31	25	25
28	2	127	127	121	33	27	27
30	2	130	130	125	35	30	30
31.5-32	2	130	130	125	35	30	30
35	2	132	132	125	38	30	30
38	3	160	160	150	45	35	35
40	3	160	160	150	45	35	35
42	3	160	160	150	45	35	35
45	3	165	165	153	50	38	38
50	3	165	165	153	50	38	38
60	4	200	200	185	59	44	44
63	4	200	200	185	59	44	44
70	4	206	206	190	66	48	48
80	4	215	215	196	69	50	50
90	5	265	265	243	83	61	61
100	5	280	280	256	98	74	74

Straight shank countersunk drill

φD (mm)	d1 (mm)	L(mm)			l(mm)		
		60°	90°	120°	60°	90°	120°
8	8	48	44	44	16	13	13
10	8	50	46	46	18	15	15
12.5	8	52	48	48	20	17	17
14	10	57	53	53	22	18	18
16	10	60	56	56	23	19	19
18	10	62	58	58	25	21	21
20	10	64	60	60	26	22	22
22	10	66	63	63	26	23	23
25	10	69	65	65	32	26	26
30	12	73	70	70	33	30	30
32	12	75	72	72	34	30	30
35	12	85	75	75	40	30	30
40	12	95	85	85	45	35	35
50	16	100	95	95	50	38	38



■ Chamfering Knife with Beveled Hole



■ Data.

D +0.3	Chamfer	d h9	L ±1
10	2-5	6	45
10	4-9	6	45
15	6-14	8	55
20	8-18	10	65
25	10-23	12	78
28	11-26	12	78
30	12-28	12	87
35	14-33	16	106
40	16-38	16	121
50	20-48	16	135



RAPID DRILLING



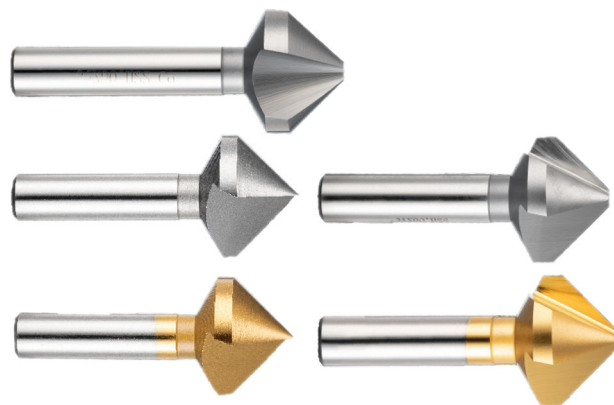
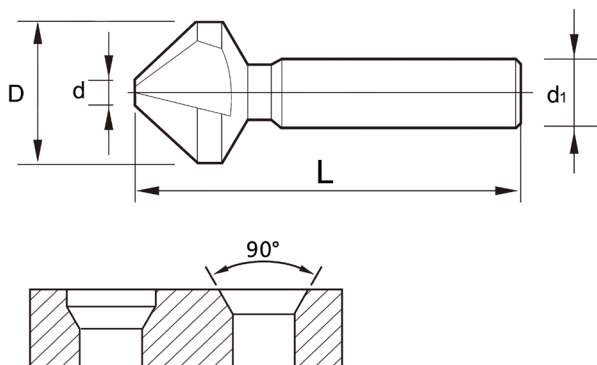
DURABLE CONSTRUCTION



DEBRIS EVACUATION

- High-grade high-speed steel/cemented carbide material manufacturing, with high wear resistance, long service life;
- The use of advanced numerical control equipment processing, to ensure high-quality stability and consistency;
- The CBN grinding wheel is fully ground to ensure good finish and sharp edge;
- Improved cutting edge angle to ensure smooth and efficient cutting;
- Reasonable design of chip-containing groove ensures smooth and light chip discharge;
- The conical surface is provided with a continuous back angle;
- Suitable for processing steel, iron castings, non-ferrous parts and light metals;

Chamfered Knife



RAPID DRILLING



DURABLE CONSTRUCTION



DEBRIS EVACUATION

Data.

D	d	d1	L	Straight groove	Arc-shaped groove	M2	M35	TiN
4.3	1.3	4	40	●	●	●	●	●
5.0	1.5	4	40	●	●	●	●	●
5.3	1.5	4	40	●	●	●	●	●
5.8	1.5	5	45	●	●	●	●	●
6.0	1.5	5	45	●	●	●	●	●
6.3	1.5	5	45	●	●	●	●	●
7.0	1.8	6	50	●	●	●	●	●
7.3	1.8	6	50	●	●	●	●	●
8.0	2	6	50	●	●	●	●	●
8.3	2	6	50	●	●	●	●	●
9.4	2.2	6	50	●	●	●	●	●
10.0	2.5	6	50	●	●	●	●	●
10.4	2.5	6	50	●	●	●	●	●
11.5	2.8	8	56	●	●	●	●	●
12.4	2.9	8	56	●	●	●	●	●
13.4	2.9	8	56	●	●	●	●	●
15.0	3.2	10	60	●	●	●	●	●
16.5	3.2	10	60	●	●	●	●	●
19.0	3.5	10	63	●	●	●	●	●
20.5	3.5	10	63	●	●	●	●	●
23.0	3.8	10	67	●	●	●	●	●

- CBN grinding wheel fully grinding manufacturing to ensure good finish, sharp cutting edge;
- Large chip chute ensures rapid chip removal;
- Standard front Angle ensures effective chip;
- The cone has a continuous back Angle, easy to regrind the cutting edge;
- Smooth cutting, no vibration;
- Ideal self-centering ability;
- Widely used in the processing of steel, cast iron, non-ferrous metals and light metals.

● Can be customized for production

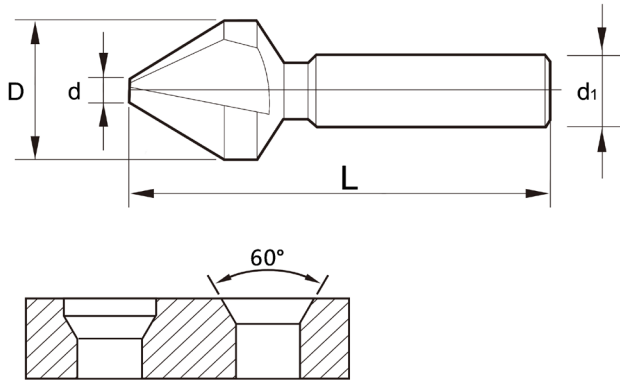
D	d	d1	L	Straight groove	Arc-shaped groove	M2	M35	TiN
25.0	3.8	10	67	●	●	●	●	●
30.0	4.2	12	71	●	●	●	●	●
31.0	4.2	12	71	●	●	●	●	●
35.0	4.5	12	82	●	●	●	●	●
40.0	4.5	12	92	●	●	●	●	●
45.0	4.5	12	95	●	●	●	●	●
50.0	4.5	12	100	●	●	●	●	●
60.0	4.5	12	120	●	●	●	●	●
70	7	16	125	●	●	●	●	●
80.0	10	16	130	●	●	●	●	●
100.0	30	25	160	●	●	●	●	●



Chamfer Knife with Taper Shank

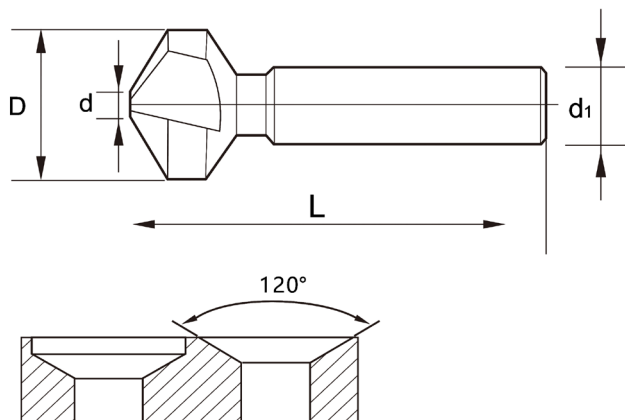
Chamfer Knife with Taper Shank 60°

• Can be customized for production



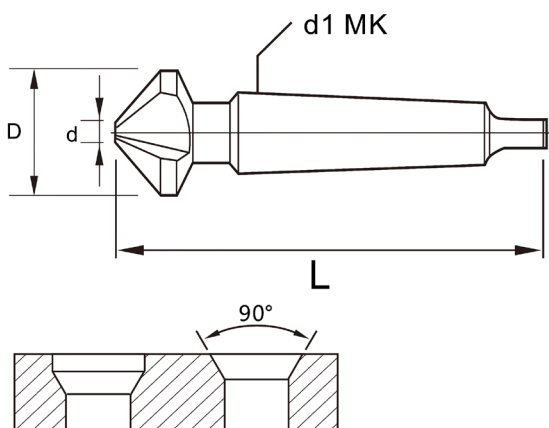
D	d	d1	L	M2	TiN
6.3	1.5		45	●	●
8.3	2		50	●	●
10.4	2.5		50	●	●
12.4	2.8		56	●	●
16.5	3.2	10	60	●	●
20.5	3.5	10	65	●	●
25	3.8	10	70	●	●
31	4.2		75	●	●
35	4.5		82	●	●
40	4.5		96	●	●
45	4.5		100	●	●
50	4.5		102	●	●
60	4.5		121	●	●

Chamfer Knife with Taper Shank 120°



D	d	d1	L	M2	TiN
6.3	1.5	5	44	●	●
8.3	2	6	48	●	●
10.4	2.5	6	48	●	●
12.4	2.8	8	54	●	●
16.5	3.2	10	57	●	●
20.5	3.5	10	59	●	●
25	3.8	10	62	●	●
31	4.2	12	65	●	●
35	4.5	12	75	●	●
40	4.5	12	84	●	●
45	4.5	12	86	●	●
50	4.5	12	90	●	●
60	4.5	12	108	●	●

Chamfer Knife with Taper Shank



D	d	MK	L		M2	90°	60°
			90°	60°			
16.5	3.2	1	87	93	●	●	●
20.5	3.5	2	110	117	●	●	●
25	3.8	2	115	120	●	●	●
31	4.2	2	119	126	●	●	●
35	4.5	2	120	131	●	●	●
40	4.5	3	142	159	●	●	●
45	4.5	3	145	161	●	●	●
50	4.5	3	149	165	●	●	●
60	4.5	4	182	202	●	●	●
80	10	4	192	217	●	●	●



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