



HK Tools

PROFESSIONAL CUTTING TOOL MANUFACTURER



HK Tools

JIANGSU HAOKE MATERIAL TECH CO.,LTD

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JIANGSU HAOKE MATERIAL TECH CO.,LTD

# COMPANY PROFILE

DETAILS DETERMINE SUCCESS OR FAILURE



JIANGSU HAOKE MATERIAL TECH CO.,LTD. Is one of the professional manufacturers in China, we have many years of research experience in the process performance, strength and toughness coordination of metal materials. The core of high-quality tools lies in high-quality materials, and high quality tools require multiple guarantees,

Materials, coatings and processes should be kept improving, The process depends on the sharpener, passivation equipment, tool angle treatment, and the understanding of the sharpener. Based on this, we have advanced technology and advanced equipment, specializing in production: drill bits, milling cutters, hole saws, saw blades and other cutting tools for a wide range of uses. Excellent design, production and trade management ensure that we can provide competitive products and services to global customers. We can provide customers with the following products:

- Kinds Of HSS Drill Bits
- Milling Cutter
- Step Drill Bits
- Wood Drill Bits
- Masonry Drill Bits
- SDS Hammer Drill Bits
- Diamond Saw Blades
- TCT Saw Blades
- HSS Hole Saws
- HSS Tapes&Dies
- (Other non-standard hardware tool parts both according to customers's drawing and samples)



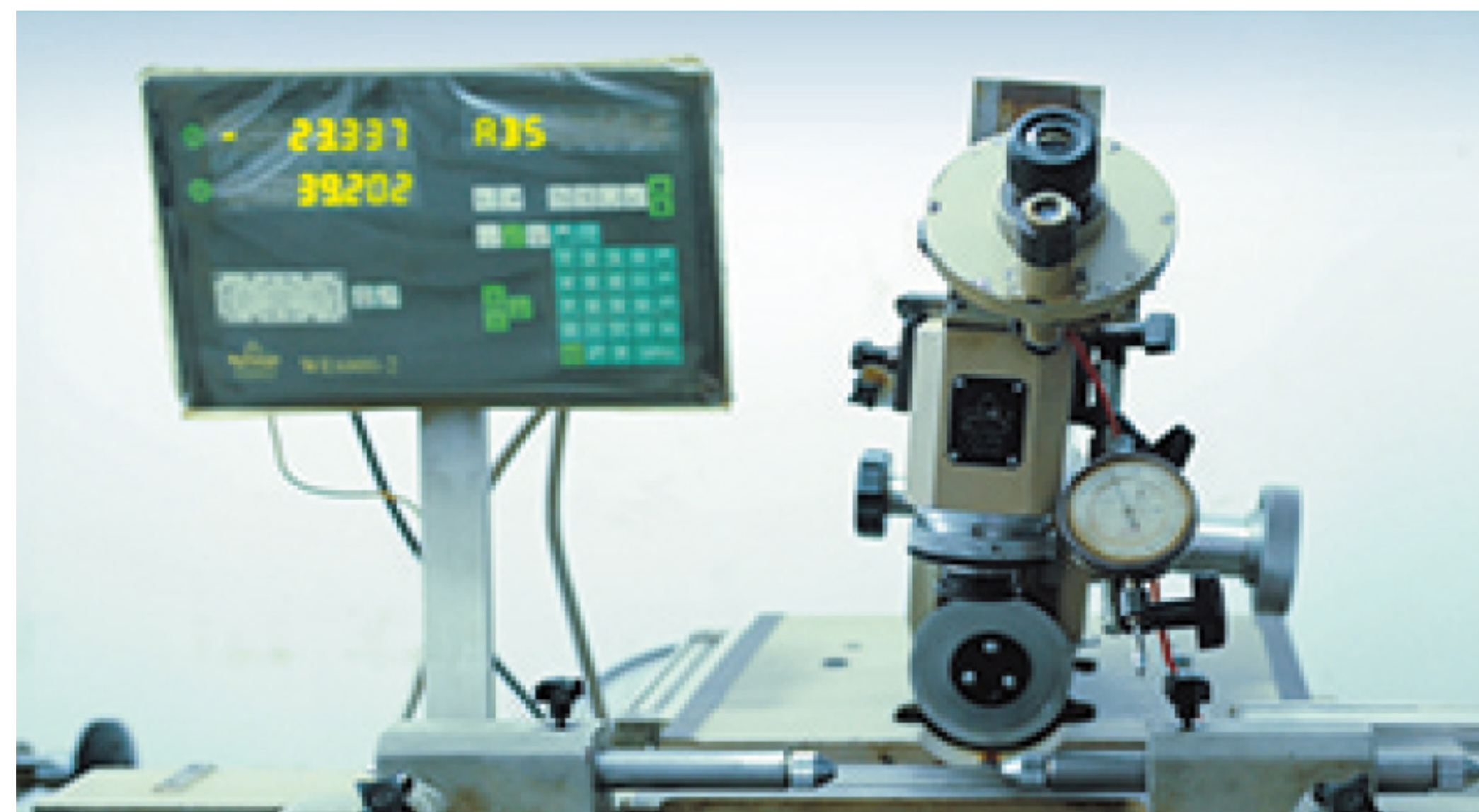
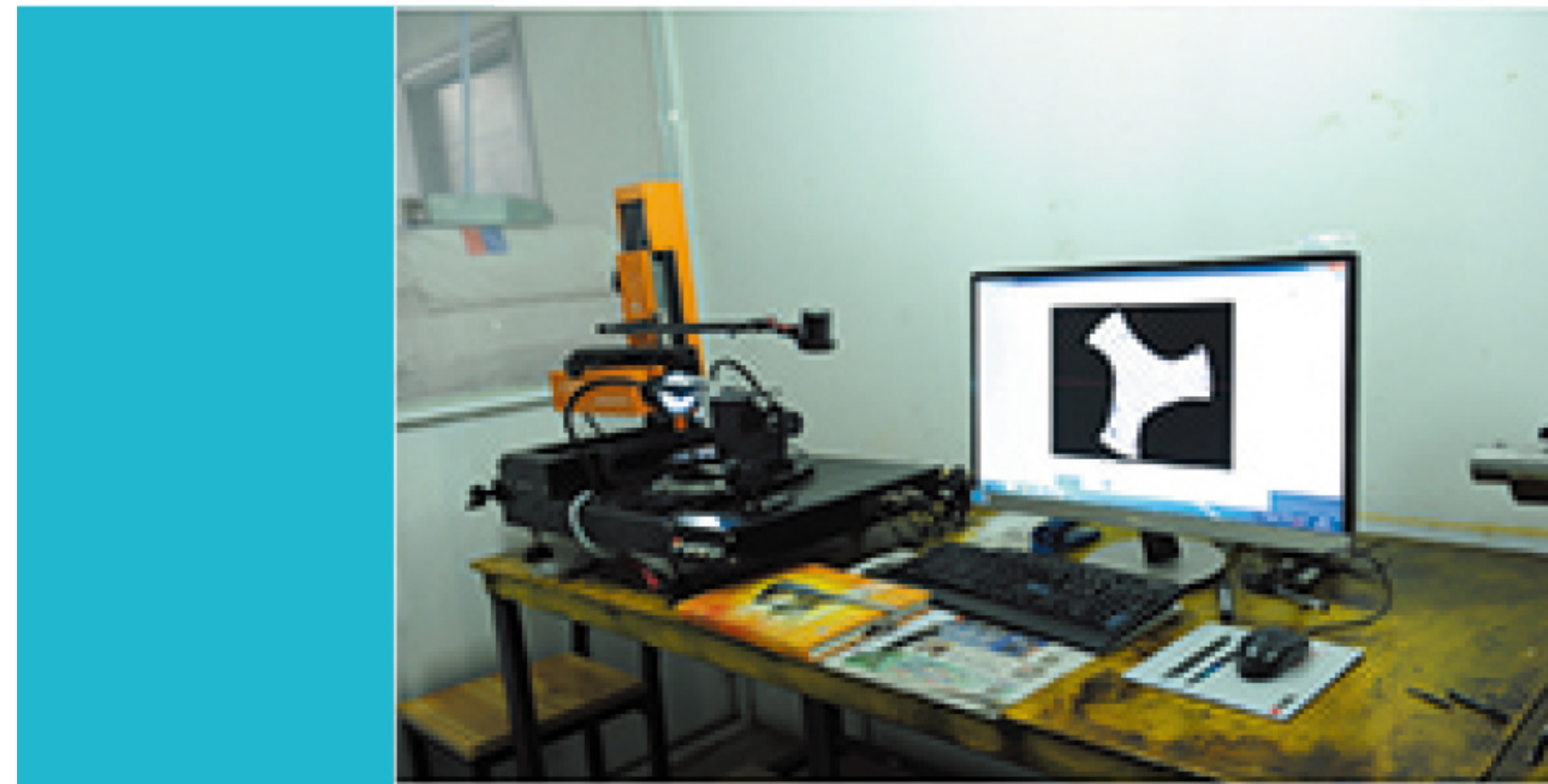
ENVIRONMENT

We have a supply system, production management system, Quality Control system, packaging system, storage system, pre-delivery inspection system and after-sales service system. We are convinced that the service starts after the transaction, so we have a complete after-sales team to ensure that customer issues can be resolved in a timely manner. We believe that we can bring real value to our customers.

We are located in Houxiang Town, Danyang City, Jiangsu Province, which is known as the Home of Tools. We believe that the success of our customers is the success of our company!

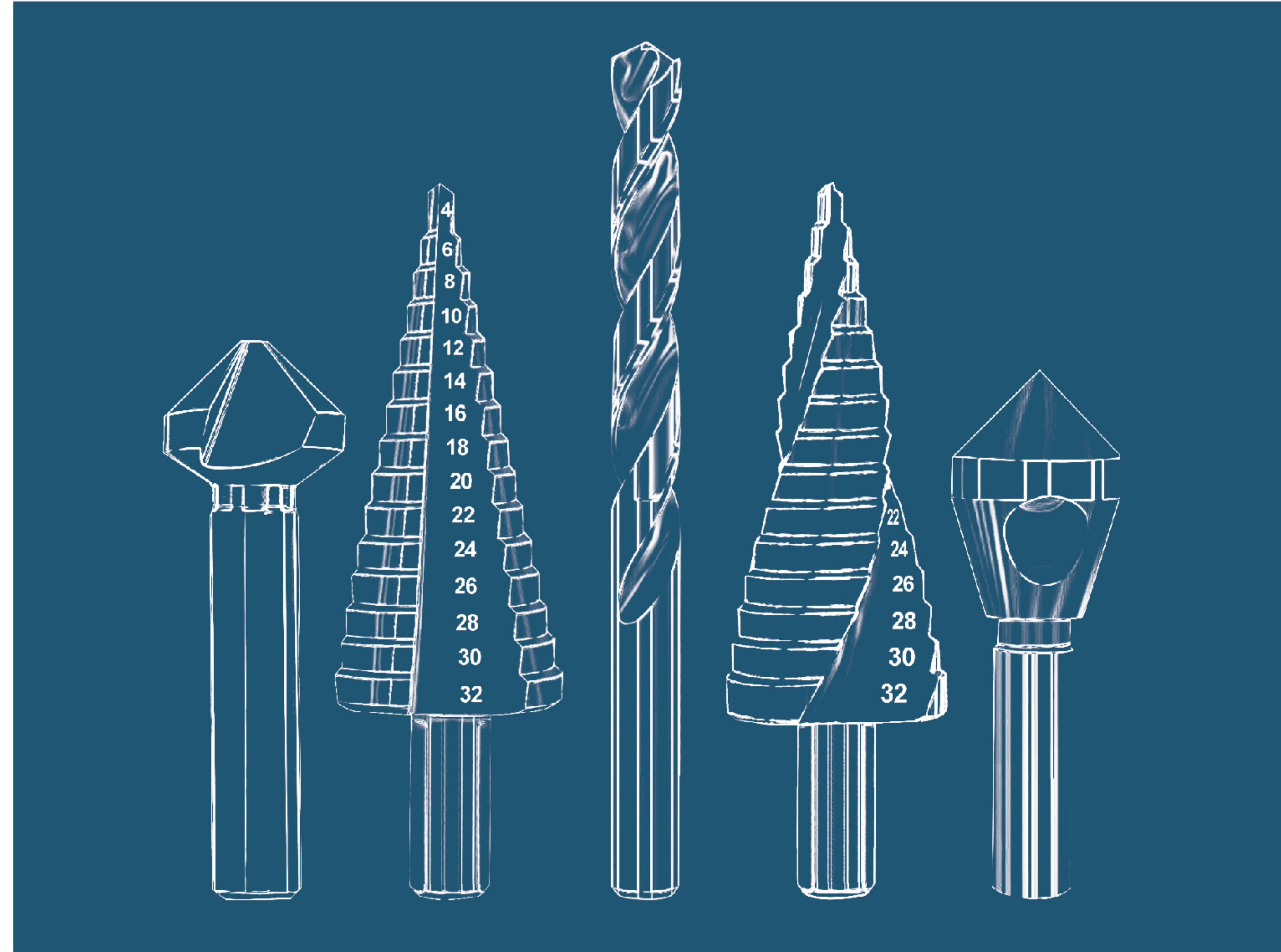


## TESTING EQUIPMENT



## PRODUCTION EQUIPMENT





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# HSS TWIST DRILL

**Main cutting edge, different point type**

**Point Type**

- 118 Degree Point
- 135 Degree Split Point
- Turbomax Point
- Chip Breaker Point
- Pilot Point
- Point for Weld Spot

**Variable helix angle**

118°      135° Split Point

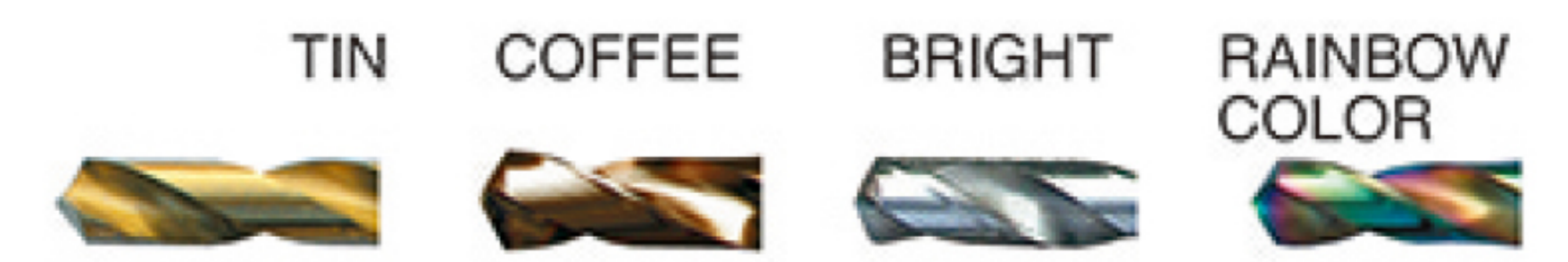
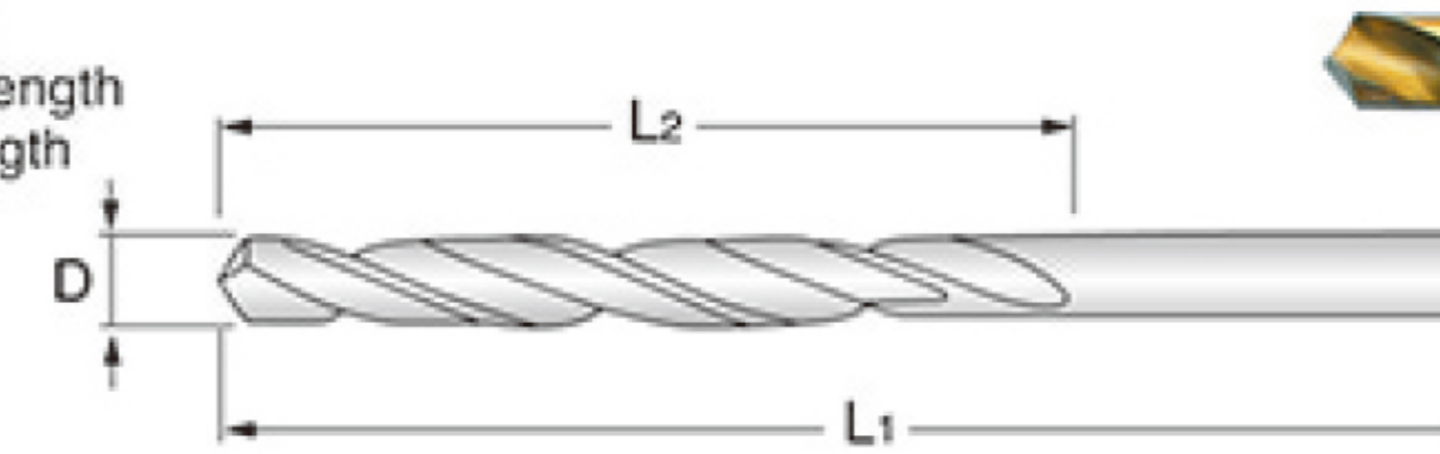
**Bright finished, different coated**

**Double flutes**

**Round shank, hex shank, SD plus shank, handle shank**

## HSS Straight Shank Twist Drill-DIN338

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length



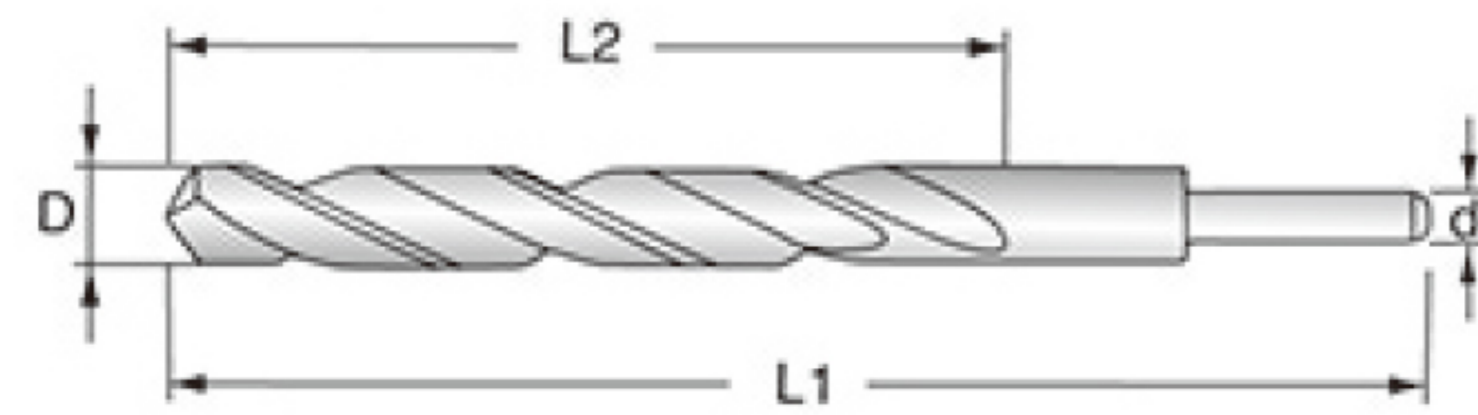
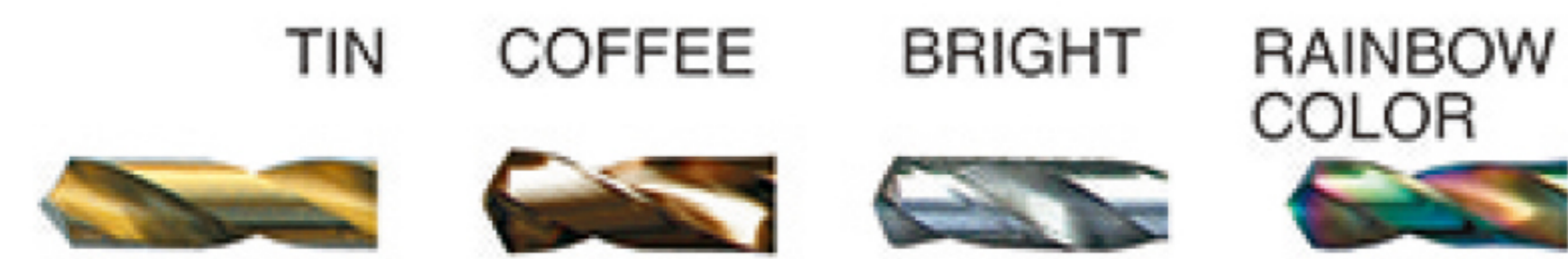
D	L <sub>1</sub>	L <sub>2</sub>
0.20	19	2.5
0.25	19	3
0.30	19	3
0.35	19	4
0.40	20	5
0.45	20	5
0.50	22	6
0.55	24	7
0.60	24	7
0.65	26	8
0.70	28	9
0.75	28	9
0.80	30	10
0.85	32	11
0.90	32	11
0.95	34	12
1.00	34	12
1.10	36	14
1.20	38	16
1.30	40	18
1.40	40	18
1.50	43	20
1.60	43	20
1.70	46	22
1.80	46	22
1.90	46	24
2.00	49	24
2.10	49	24
2.20	53	27
2.30	53	27
2.40	57	30
2.50	57	30
2.60	57	30
2.70	61	33
2.80	61	33
2.90	61	33
3.00	61	33
3.10	65	36
3.20	65	36
3.30	65	36
3.40	70	39
3.50	70	39
3.60	70	39
3.70	70	39
3.80	75	43
3.90	75	43
4.00	75	43
4.10	75	43
4.20	75	43
4.30	80	47
4.40	80	47
4.50	80	47
4.60	80	47

D	L <sub>1</sub>	L <sub>2</sub>
4.70	80	47
4.80	86	52
4.90	86	52
5.00	86	52
5.10	86	52
5.20	86	52
5.30	86	52
5.40	93	57
5.50	93	57
5.60	93	57
5.70	93	57
5.80	93	57
5.90	93	57
6.00	93	57
6.10	101	63
6.20	101	63
6.30	101	63
6.40	101	63
6.50	101	63
6.60	101	63
6.70	101	63
6.80	109	69
6.90	109	69
7.00	109	69
7.10	109	69
7.20	109	69
7.30	109	69
7.40	109	69
7.50	109	69
7.60	117	75
7.70	117	75
7.80	117	75
7.90	117	75
8.00	117	75
8.10	117	75
8.20	117	75
8.30	117	75
8.40	117	75
8.50	117	75
8.60	125	81
8.70	125	81
8.80	125	81
8.90	125	81
9.00	125	81
9.10	125	81
9.20	125	81
9.30	125	81
9.40	125	81
9.50	125	81
9.60	133	87
9.70	133	87
9.80	133	87
9.90	133	87

D	L <sub>1</sub>	L <sub>2</sub>
10.00	133	87
10.10	133	87
10.20	133	87
10.30	133	87
10.40	133	87
10.50	133	87
10.60	133	87
10.70	142	94
10.80	142	94
10.90	142	94
11.00	142	94
11.10	142	94
11.20	142	94
11.30	142	94
11.40	142	94
11.50	142	94
11.60	142	94
11.70	142	94
11.80	142	94
11.90	151	101
12.00	151	101
12.10	151	101
12.20	151	101
12.30	151	101
12.40	151	101
12.50	151	101
12.60	151	101
12.70	151	101
12.80	151	101
12.90	151	101
13.00	151	101
13.10	151	101
13.20	151	101
13.30	160	108
13.40	160	108
13.50	160	108
13.60	160	108
13.70	160	108
13.80	160	108
13.90	160	108
14.00	160	108
14.50	169	114
15.00	169	114
15.50	178	120
16.00	178	120
16.50	184	125
17.00	184	125
17.50	191	130
18.00	191	130
18.50	198	135
19.00	198	135
19.50	205	140
20.00	205	140

### HSS Reduced Shank Twist Drill-DIN338

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length  
d Shank Diameter



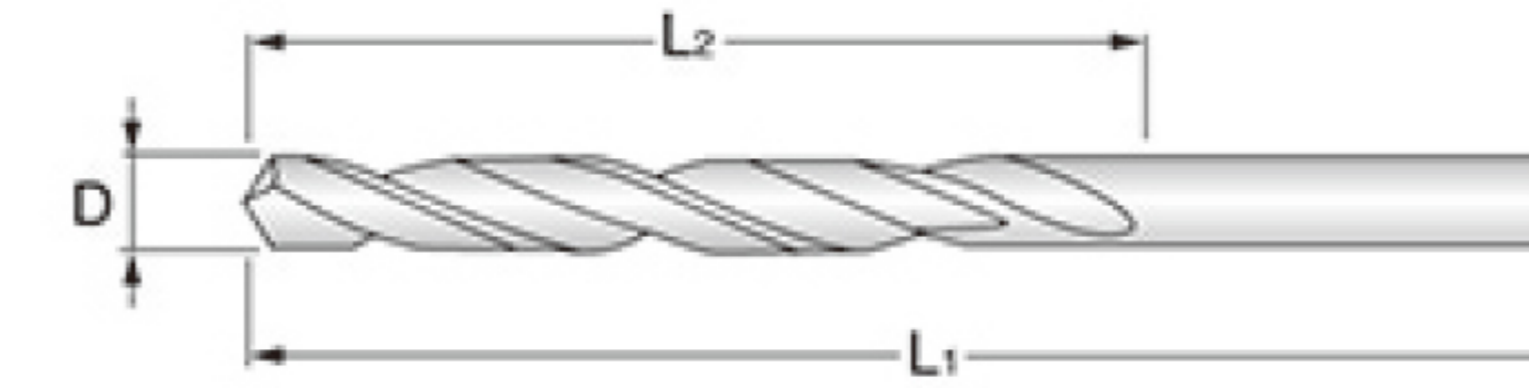
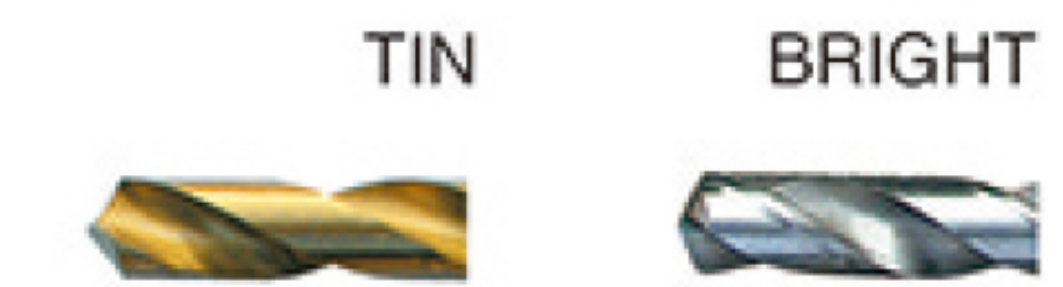
D	L <sub>1</sub>	L <sub>2</sub>	d
8.50	117	75	8.00
9.00	125	81	8.00
9.50	125	81	8.00
10.00	133	87	8.00
10.50	133	87	8.00
11.00	142	94	8.00
11.50	142	94	8.00
12.00	151	101	8.00
12.50	151	101	8.00
13.00	151	101	8.00

D	L <sub>1</sub>	L <sub>2</sub>	d
13.50	160	108	13.00
14.00	160	108	13.00
14.50	169	114	13.00
15.00	169	114	13.00
15.50	178	120	13.00
16.00	178	120	13.00
16.50	184	125	13.00
17.00	184	125	13.00
17.50	191	130	13.00
18.00	191	130	13.00
18.50	198	135	13.00
19.00	198	135	13.00
19.50	205	140	13.00
20.00	205	140	13.00
21.00	205	145	13.00
22.00	210	150	13.00
23.00	215	155	13.00
24.00	220	160	13.00
25.00	220	160	13.00
26.00	235	165	13.00
27.00	235	170	13.00
28.00	235	170	13.00
29.00	240	175	13.00
30.00	240	175	13.00

D	L <sub>1</sub>	L <sub>2</sub>	d
10.50	133	87	10.00
11.00	142	94	10.00
11.50	142	94	10.00
12.00	151	101	10.00
12.50	151	101	10.00
13.00	151	101	10.00
13.50	160	108	10.00
14.00	160	108	10.00
14.50	169	114	10.00
15.00	169	114	10.00
15.50	178	120	10.00
16.00	178	120	10.00
16.50	184	125	10.00
17.00	184	125	10.00
17.50	191	130	10.00
18.00	191	130	10.00
18.50	198	135	10.00
19.00	198	135	10.00
19.50	205	140	10.00
20.00	205	140	10.00

### HSS Straight Shank Twist Drill-DIN340

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length



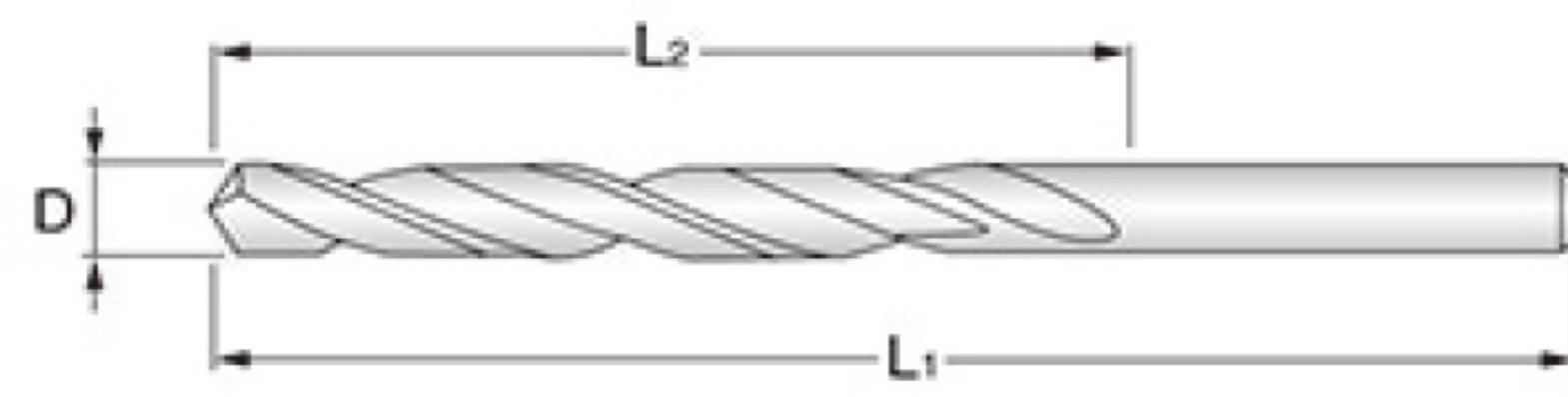
D	L <sub>1</sub>	L <sub>2</sub>
1.00	56	33
1.10	60	37
1.20	65	41
1.30	65	41
1.40	70	45
1.50	70	45
1.60	76	50
1.70	76	50
1.80	80	53
1.90	80	53
2.00	85	56
2.10	85	56
2.20	90	56
2.30	90	56
2.40	95	62
2.50	95	62
2.60	95	62
2.70	100	66
2.80	100	66
2.90	100	66
3.00	100	63
3.10	106	69
3.20	106	69
3.30	106	69
3.40	110	73
3.50	110	73
3.60	110	73
3.70	110	73
3.80	119	78
3.90	119	78
4.00	119	78
4.10	119	78
4.20	119	78
4.30	126	82
4.40	126	82
4.50	126	82
4.60	126	82
4.70	126	82
4.80	132	87
4.90	132	87
5.00	132	87
5.10	132	87
5.20	132	87
5.30	132	87
5.40	139	91
5.50	139	91
5.60	139	91
5.70	139	91
5.80	139	91
5.90	139	91
6.00	139	91
6.10	148	97
6.20	148	97

D	L <sub>1</sub>	L <sub>2</sub>
6.30	148	97
6.40	148	97
6.50	148	97
6.60	148	97
6.70	148	97
6.80	156	102
6.90	156	102
7.00	156	102
7.10	156	102
7.20	156	102
7.30	156	102
7.40	156	102
7.50	156	102
7.60	165	109
7.70	165	109
7.80	165	109
7.90	165	109
8.00	165	109
8.10	165	109
8.20	165	109
8.30	165	109
8.40	165	109
8.50	165	109
8.60	175	115
8.70	175	115
8.80	175	115
8.90	175	115
9.00	175	115
9.10	175	115
9.20	175	115
9.30	175	115
9.40	175	115
9.50	175	115
9.60	184	121
9.70	184	121
9.80	184	121
9.90	184	121
10.00	184	121
10.10	184	121
10.20	184	121
10.30	184	121
10.40	184	121
10.50	184	121
10.60	184	121
10.70	195	128
10.80	195	128
10.90	195	128
11.00	195	128
11.10	195	128
11.20	195	128
11.30	195	128
11.40	195	128
11.50	195	128

D	L <sub>1</sub>	L <sub>2</sub>
11.60	195	128
11.70	195	128
11.80	195	128
11.90	205	134
12.00	205	134
12.10	205	134
12.20	205	134
12.30	205	134
12.40	205	134
12.50	205	134
12.60	205	134
12.70	205	134
12.80	205	134
12.90	205	134
13.00	205	134
13.10	205	134
13.20	205	134
13.30	214	140
13.40	214	140
13.50	214	140
13.60	214	140
13.70	214	140
13.80	214	140
13.90	214	140
14.00	214	140
14.50	220	144
15.00	220	144
15.50	227	149
16.00	227	149
16.50	235	154
17.00	235	154
17.50	241	158
18.00	241	158
18.50	247	162
19.00	247	162
19.50	254	166
20.00	254	166

**HSS Straight Shank Twist Drill-DIN1897**

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length



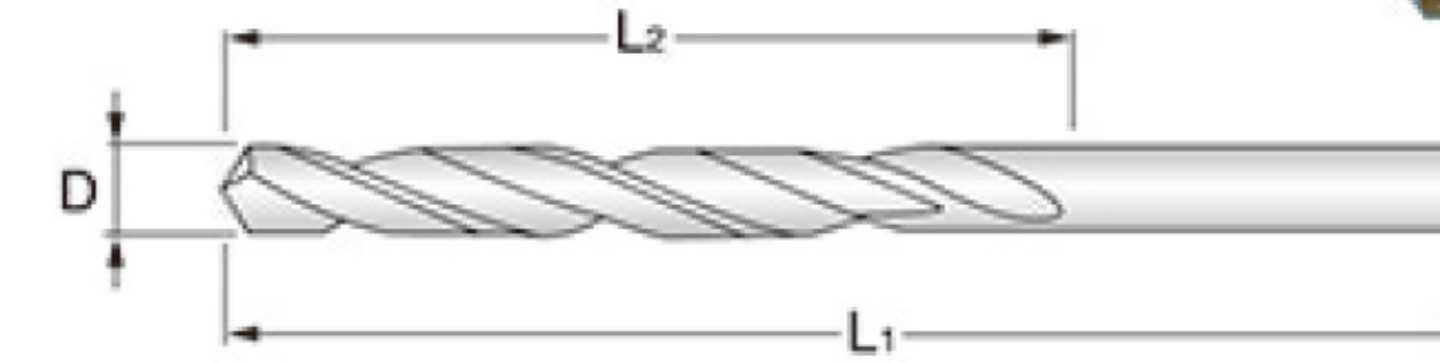
D	L <sub>1</sub>	L <sub>2</sub>
1.00	26	6
1.10	28	7
1.20	30	8
1.30	30	8
1.40	32	9
1.50	32	9
1.60	34	10
1.70	34	10
1.80	36	11
1.90	36	11
2.00	38	12
2.10	38	12
2.20	40	13
2.30	40	13
2.40	43	14
2.50	43	14
2.60	43	14
2.70	46	16
2.80	46	16
2.90	46	16
3.00	46	16
3.10	49	18
3.20	49	18
3.30	49	18
3.40	52	20
3.50	52	20
3.60	52	20
3.70	52	20
3.80	55	22
3.90	55	22
4.00	55	22
4.10	55	22
4.20	55	22
4.30	58	24
4.40	58	24
4.50	58	24
4.60	58	24
4.70	58	24
4.80	62	26
4.90	62	26
5.00	62	26
5.10	62	26
5.20	62	26
5.30	66	28
5.40	66	28
5.50	66	28
5.60	66	28
5.70	66	28
5.80	66	28
5.90	66	28
6.00	66	28
6.10	70	31
6.20	70	31

D	L <sub>1</sub>	L <sub>2</sub>
6.30	70	31
6.40	70	31
6.50	70	31
6.60	70	31
6.70	70	31
6.80	74	34
6.90	74	34
7.00	74	34
7.10	74	34
7.20	74	34
7.30	74	34
7.40	74	34
7.50	74	34
7.60	79	37
7.70	79	37
7.80	79	37
7.90	79	37
8.00	79	37
8.10	79	37
8.20	79	37
8.30	79	37
8.40	79	37
8.50	79	37
8.60	84	40
8.70	84	40
8.80	84	40
8.90	84	40
9.00	84	40
9.10	84	40
9.20	84	40
9.30	84	40
9.40	84	40
9.50	84	40
9.60	89	43
9.70	89	43
9.80	89	43
9.90	89	43
10.00	89	43
10.10	89	43
10.20	89	43
10.30	89	43
10.40	89	43
10.50	89	43
10.60	89	43
10.70	95	47
10.80	95	47
10.90	95	47
11.00	95	47
11.10	95	47
11.20	95	47
11.30	95	47
11.40	95	47
11.50	95	47

D	L <sub>1</sub>	L <sub>2</sub>
11.60	95	47
11.70	95	47
11.80	95	47
11.90	102	51
12.00	102	51
12.10	102	51
12.20	102	51
12.30	102	51
12.40	102	51
12.50	102	51
12.60	102	51
12.70	102	51
12.80	102	51
12.90	102	51
13.00	102	51
13.10	102	51
13.20	102	51
13.30	107	54
13.40	107	54
13.50	107	54
13.60	107	54
13.70	107	54
13.80	107	54
13.90	107	54
14.00	107	54
14.50	111	56
15.00	111	56
15.50	115	58
16.00	115	58
16.50	119	58
17.00	119	58
17.50	123	62
18.00	123	62
18.50	127	62
19.00	127	62
19.50	131	66
20.00	131	66

**HSS Straight Shank Twist Drill-JIS**

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length



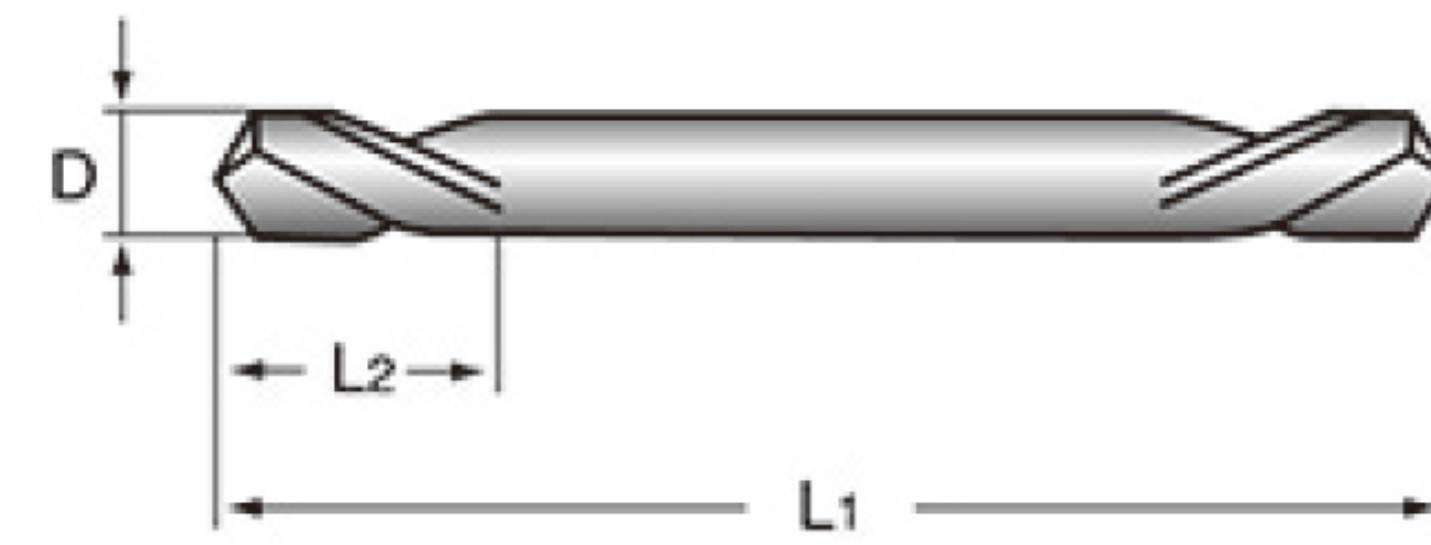
D	L <sub>1</sub>	L <sub>2</sub>
0.50	22	6
0.55	24	7
0.60	24	7
0.65	26	8
0.70	28	9
0.75	28	9
0.80	30	10
0.85	30	10
0.90	32	11
0.95	32	11
1.00	34	12
1.05	34	12
1.10	36	14
1.15	36	14
1.20	38	16
1.25	38	16
1.30	40	16
1.35	40	18
1.40	40	18
1.45	40	18
1.50	40	18
1.55	43	20
1.60	43	20
1.65	43	20
1.70	43	20
1.75	46	22
1.80	46	22
1.85	46	22
1.90	46	22
1.95	49	24
2.00	55	29
2.10	55	29
2.20	58	33
2.30	58	33
2.40	61	35
2.50	61	35
2.60	64	37
2.70	64	37
2.80	67	39
2.90	71	42
3.00	71	42
3.10	71	42
3.20	71	42
3.30	73	45
3.40	73	45
3.50	73	45
3.60	76	48

D	L <sub>1</sub>	L <sub>2</sub>
3.70	76	48
3.80	76	48
3.90	79	51
4.00	83	54
4.10	83	54
4.20	83	54
4.30	83	54
4.40	86	56
4.50	86	56
4.60	86	56
4.70	89	59
4.80	89	59
4.90	92	62
5.00	92	62
5.10	92	62
5.20	95	64
5.30	95	64
5.40	95	64
5.50	95	64
5.60	98	67
5.70	98	67
5.80	98	67
5.90	98	67
6.00	102	70
6.10	102	70
6.20	102	70
6.30	102	70
6.40	105	73
6.50	105	73
6.60	105	73
6.70	105	73
6.80	105	73
6.90	105	73
7.00	105	73
7.10	108	75
7.20	108	75
7.30	108	75
7.40	111	78
7.50	111	78
7.60	111	78
7.70	114	81
7.80	114	81
7.90	114	81
8.00	114	81
8.10	117	84
8.20	117	84
8.30	117	84

D	L <sub>1</sub>	L <sub>2</sub>
8.40	121	87
8.50	121	87
8.60	121	87
8.70	121	87
8.80	124	89
8.90	124	89
9.00	124	89
9.10	124	89
9.20	127	92
9.30	127	92
9.40	127	92
9.50	127	92
9.60	130	95
9.70	130	95
9.80	130	95
9.90	130	95
10.00	130	95
10.10	133	98
10.20	133	98
10.30	133	98
10.40	133	98
10.50	137	100
10.60	137	100
10.70	137	100
10.80	140	103
10.90	140	103
11.00	140	103
11.10	140	103
11.20	143	106
11.30	143	106
11.40	143	106
11.50	143	106
11.60	146	109
11.70	146	109
11.80	146	109
11.90	146	109
12.00	149	111
12.10	149	111
12.20	149	111
12.30	149	111
12.40	152	114
12.50	152	114
12.60	152	114
12.70	152	114
12.80	152	114
12.90	152	114
13.00	152	114

**HSS Double End Twist Drill**

D Diameter  
L<sub>1</sub> Overall Length  
L<sub>2</sub> Flute Length

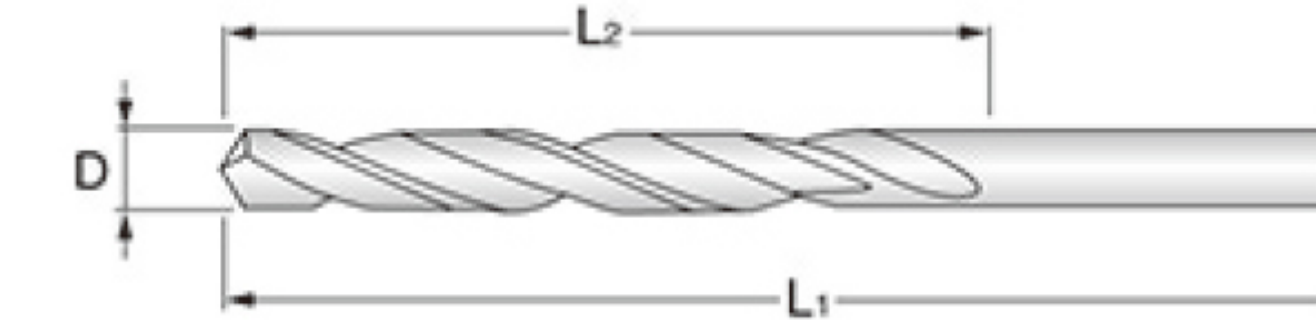


D	L <sub>1</sub>	L <sub>2</sub>
2.00	38.00	7.5
2.10	38.00	7.5
2.20	38.00	7.5
2.30	38.00	7.5
2.40	38.00	7.5
2.50	43.00	9.5
2.60	43.00	9.5
2.70	46.0	10.6
2.80	46.0	10.6
2.90	46.0	10.6
3.00	46.0	10.6
3.10	49.0	11.2
3.20	49.0	11.2
3.25	49.0	11.2
3.30	49.0	11.2
3.40	52.0	12.5
3.50	52.0	12.5
3.60	52.0	12.5
3.70	52.0	12.5
3.80	55.0	14.0
3.90	55.0	14.0
4.00	55.0	14.0
4.10	55.0	14.0
4.20	55.0	14.0
4.30	58.0	15.5
4.40	58.0	15.5
4.50	58.0	15.5
4.60	58.0	15.5
4.70	58.0	15.5
4.80	62.0	17.0
4.90	62.0	17.0
5.00	62.0	17.0
5.10	62.0	17.0
5.20	62.0	17.0
5.30	62.0	17.0
5.40	66.0	19.0
5.50	66.0	19.0
5.60	66.0	19.0
5.70	66.0	19.0
5.80	66.0	19.0
5.90	66.0	19.0

D	L <sub>1</sub>	L <sub>2</sub>
6.00	66.0	19.0
6.10	70.0	21.2
6.20	70.0	21.2
6.30	70.0	21.2
6.40	70.0	21.2
6.50	70.0	21.2
6.60	70.0	21.2
6.70	70.0	21.2
6.80	74.0	23.6
6.90	74.0	23.6
7.00	74.0	23.6
7.10	74.0	23.6
7.20	74.0	23.6
7.30	74.0	23.6
7.40	74.0	23.6
7.50	74.0	23.6
7.60	79.0	25.0
7.70	79.0	25.0
7.80	79.0	25.0
7.90	79.0	25.0
8.00	79.0	25.0
8.10	79.0	25.0
8.20	79.0	25.0
8.30	79.0	25.0
8.40	79.0	25.0
8.50	79.0	25.0
8.60	84.0	25.0
8.70	84.0	25.0
8.80	84.0	25.0
8.90	84.0	25.0
9.00	84.0	25.0
9.10	84.0	25.0
9.20	84.0	25.0
9.30	84.0	25.0
9.40	84.0	25.0
9.50	84.0	25.0
9.60	89.0	25.0
9.70	89.0	25.0
9.80	89.0	25.0
9.90	89.0	25.0
10.00	89.0	25.0

D	L <sub>1</sub>	L <sub>2</sub>
7/64"	1-7/8"	1/2"
1/8"	2"	1/2"
9/64"	2"	1/2"
5/32"	2-1/16"	1/2"
3/16"	2-3/16"	1/2"
7/32"	2-3/8"	1/2"
1/4"	2-1/2"	1/2"
30#	2"	1/2"
20#	2-1/8"	1/2"
11#	2-1/4"	1/2"

**HSS Straight Shank Twist Drill ANSI B94.11M(1)**



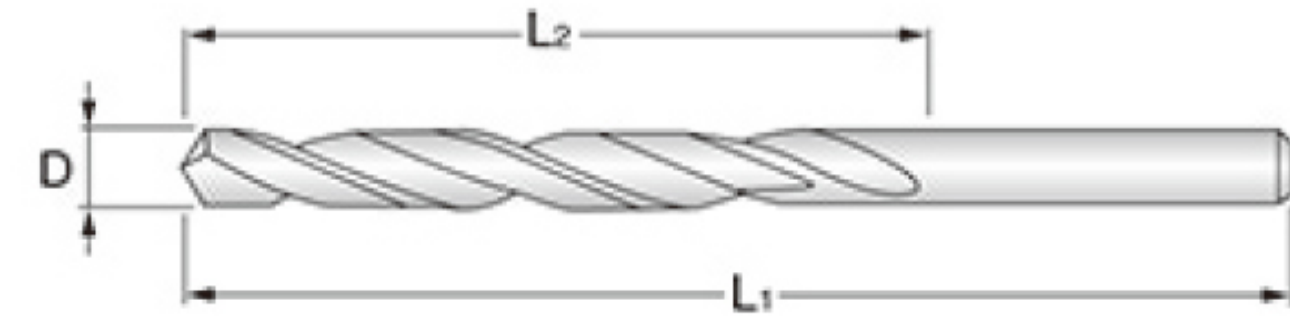
**Jobbers Length**

Diameter of Drill				Flute Length		Overall Length	
D		No.	Ltr.	L <sub>1</sub>		L <sub>2</sub>	
Draction	Millimeter Equivalent			Inch	mm	Inch	mm
			1.000	11/16	17	1 5/8	41
		60	1.016	11/16	17	1 5/8	41
		59	1.041	11/16	17	1 5/8	41
			1.050	11/16	17	1 5/8	41
		58	1.067	11/16	17	1 5/8	41
		57	1.092	3/4	19	1 3/4	44
			1.100	3/4	19	1 3/4	44
			1.150	3/4	19	1 3/4	44
		56	1.181	3/4	19	1 3/4	44
3/64			1.191	3/4	19	1 3/4	44
			1.200	7/8	22	1 7/8	48
			1.250	7/8	22	1 7/8	48
			1.300	7/8	22	1 7/8	48
		55	1.321	7/8	22	1 7/8	48
			1.350	7/8	22	1 7/8	48
		54	1.397	7/8	22	1 7/8	48
			1.400	7/8	22	1 7/8	48
			1.450	7/8	22	1 7/8	48
			1.500	7/8	22	1 7/8	48
		53	1.511	7/8	22	1 7/8	48
			1.550	7/8	22	1 7/8	48
1/16			1.588	7/8	22	1 7/8	48
			1.600	7/8	22	1 7/8	48
		52	1.613	7/8	22	1 7/8	48
			1.650	1	25	2	51
			1.700	1	25	2	51
		51	1.702	1	25	2	51
			1.750	1	25	2	51
		50	1.778	1	25	2	51
			1.800	1	25	2	51
			1.850	1	25	2	51
		49	1.859	1	25	2	51
			1.900	1	25	2	51
		48	1.930	1	25	2	51
			1.950	1	25	2	51
5/64			1.984	1	25	2	51

Diameter of Drill				Flute Length		Overall Length	
D		No.	Ltr.	L <sub>1</sub>		L <sub>2</sub>	
Draction	Millimeter Equivalent			Inch	mm	Inch	mm
		47	1.994	1	25	2	51
			2.000	1	25	2	51
			2.050	1 1/8	29	2 1/8	54
		46	2.057	1 1/8	29	2 1/8	54
		45	2.083	1 1/8	29	2 1/8	54
			2.100	1 1/8	29	2 1/8	54
			2.150	1 1/8	29	2 1/8	54
		44	2.184	1 1/8	29	2 1/8	54
			2.200	1 1/4	32	2 1/4	57
			2.250	1 1/4	32	2 1/4	57
		43	2.261	1 1/4	32	2 1/4	57
			2.300	1 1/4	32	2 1/4	57
			2.350	1 1/4	32	2 1/4	57
		42	2.375	1 1/4	32	2 1/4	57
3/32			2.383	1 1/4	32	2 1/4	57
			2.400	1 3/8	35	2 3/8	60
		41	2.438	1 3/8	35	2 3/8	60
			2.450	1 3/8	35	2 3/8	60
		40	2.489	1 3/8	35	2 3/8	60
			2.500	1 3/8	35	2 3/8	60
		39	2.527	1 3/8	35	2 3/8	60
		38	2.578	1 7/16	37	2 1/2	64
			2.600	1 7/16	37	2 1/2	64
		37	2.642	1 7/16	37	2 1/2	64
			2.700	1 7/16	37	2 1/2	64
		36	2.705	1 7/16	37	2 1/2	64
7/64			2.779	1 1/2	38	2 5/8	67
		35	2.794	1 1/2	38	2 5/8	67
			2.800	1 1/2	38	2 5/8	67
		34	2.819	1 1/2	38	2 5/8	67
		33	2.870	1 1/2	38	2 5/8	67
			2.900	1 5/8	41	2 3/4	70
		32	2.946	1 5/8	41	2 3/4	70
			3.000	1 5/8	41	2 3/4	70
		31	3.048	1 5/8	41	2 3/4	70
			3.100	1 5/8	41	2 3/4	70



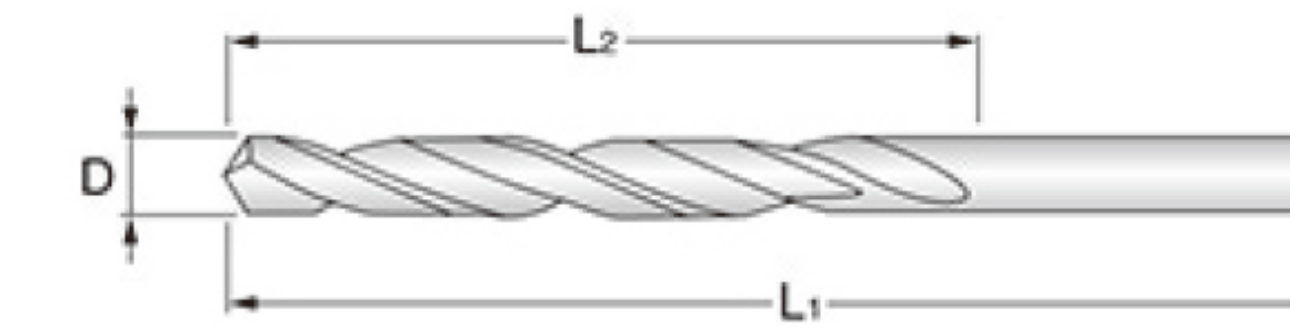
HSS Straight Shank Twist Drill ANSI B94.11M(1)



Jobbers Length

Diameter of Drill			Flute Length		Overall Length		
D			L <sub>2</sub>		L <sub>1</sub>		
Draction	No.	Ltr.	Millimeter Equivalent	Inch	mm	Inch	mm
1/8			3.175	1 5/8	41	2 3/4	70
			3.200	1 5/8	41	2 3/4	70
	30		3.264	1 5/8	41	2 3/4	70
			3.300	1 3/4	44	2 7/8	73
			3.400	1 3/4	44	2 7/8	73
	29		3.454	1 3/4	44	2 7/8	73
			3.500	1 3/4	44	2 7/8	73
	28		3.569	1 3/4	44	2 7/8	73
9/64			3.571	1 3/4	44	2 7/8	73
			3.600	1 7/8	48	3	76
	27		3.658	1 7/8	48	3	76
			3.700	1 7/8	48	3	76
	26		3.734	1 7/8	48	3	76
	25		3.797	1 7/8	48	3	76
			3.800	1 7/8	48	3	76
	24		3.861	2	51	3 1/8	79
			3.900	2	51	3 1/8	79
	23		3.912	2	51	3 1/8	79
5/32			3.967	2	51	3 1/8	79
	22		3.988	2	51	3 1/8	79
			4.000	2 1/8	54	3 1/4	83
	21		4.039	2 1/8	54	3 1/4	83
	20		4.089	2 1/8	54	3 1/4	83
			4.100	2 1/8	54	3 1/4	83
			4.200	2 1/8	54	3 1/4	83
	19		4.216	2 1/8	54	3 1/4	83
			4.300	2 1/8	54	3 1/4	83
11/64			4.305	2 1/8	54	3 1/4	83
	17		4.366	2 1/8	54	3 1/4	83
			4.394	2 3/16	56	3 3/8	86
			4.400	2 3/16	56	3 3/8	86
	16		4.496	2 3/16	56	3 3/8	86
			4.500	2 3/16	56	3 3/8	86
	15		4.572	2 3/16	56	3 3/8	86
			4.600	2 3/16	56	3 3/8	86
	14		4.623	2 3/16	56	3 3/8	86
	13		4.700	2 5/16	59	3 1/2	89
3/16			4.762	2 5/16	59	3 1/2	89
	12		4.800	2 5/16	59	3 1/2	89
	11		4.851	2 5/16	59	3 1/2	89
			4.900	2 7/16	62	3 5/8	92
	10		4.915	2 7/16	62	3 5/8	92
	9		4.978	2 7/16	62	3 5/8	92
			5.000	2 7/16	62	3 5/8	92
	8		5.054	2 7/16	62	3 5/8	92
			5.100	2 7/16	62	3 5/8	92
	7		5.105	2 7/16	62	3 5/8	92
13/64			5.159	2 7/16	62	3 5/8	92
	6		5.182	2 1/2	64	3 3/4	95
			5.200	2 1/2	64	3 3/4	95
	5		5.220	2 1/2	64	3 3/4	95
			5.300	2 1/2	64	3 3/4	95
	4		5.309	2 1/2	64	3 3/4	95
			5.400	2 1/2	64	3 3/4	95
	3		5.410	2 1/2	64	3 3/4	95
			5.500	2 1/2	64	3 3/4	95
7/32			5.558	2 1/2	64	3 3/4	95
			5.600	2 5/8	67	3 7/8	98
	2		5.613	2 5/8	67	3 7/8	98
			5.700	2 5/8	67	3 7/8	98
	1		5.791	2 5/8	67	3 7/8	98
			5.800	2 5/8	67	3 7/8	98
			5.900	2 5/8	67	3 7/8	98
		A	5.944	2 5/8	67	3 7/8	98
15/64			5.954	2 5/8	67	3 7/8	98
			6.000	2 3/4	70	4	102
		B	6.045	2 3/4	70	4	102
			6.100	2 3/4	70	4	102
		C	6.147	2 3/4	70	4	102
			6.200	2 3/4	70	4	102
		D	6.248	2 3/4	70	4	102
			6.300	2 3/4	70	4	102
1/4		E	6.350	2 3/4	70	4	102
			6.400	2 7/8	73	4 1/8	105
			6.500	2 7/8	73	4 1/8	105
		F	6.528	2 7/8	73	4 1/8	105
			6.600	2 7/8	73	4 1/8	105
		G	6.629	2 7/8	73	4 1/8	105
			6.700	2 7/8	73	4 1/8	105
17/64			6.746	2 7/8	73	4 1/8	105

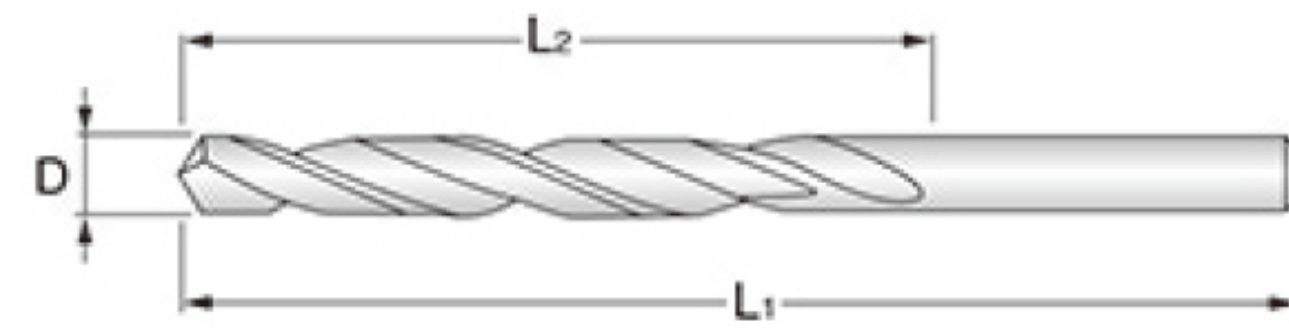
HSS Straight Shank Twist Drill ANSI B94.11M(1)



Jobbers Length

Diameter of Drill			Flute Length		Overall Length		
D			L <sub>2</sub>		L <sub>1</sub>		
Draction	No.	Ltr.	Millimeter Equivalent	Inch	mm	Inch	mm
		H	6.756	2 7/8	73	4 1/8	105
			6.800	2 7/8	73	4 1/8	105
			6.900	2 7/8	73	4 1/8	105
		I	6.909	2 7/8	73	4 1/8	105
			7.000	2 7/8	73	4 1/8	105
		J	7.036	2 7/8	73	4 1/8	105
			7.100	2 15/16	75	4 1/4	108
		K	7.137	2 15/16	75	4 1/4	108
9/32			7.142	2 15/16	75	4 1/4	108
			7.200	2 15/16	75	4 1/4	108
			7.300	2 15/16	75	4 1/4	108
		L	7.366	2 15/16	75	4 1/4	108
			7.400	3 1/16	78	4 3/8	111
		M	7.493	3 1/16	78	4 3/8	111
			7.500	3 1/16	78	4 3/8	111
19/64		M	7.541	3 1/16	78	4 3/8	111
			7.600	3 1/16	78	4 3/8	111
		N	7.671	3 1/16	78	4 3/8	111
			7.700	3 3/16	81	4 1/2	114
			7.800	3 3/16	81	4 1/2	114
			7.900	3 3/16	81	4 1/2	114
			7.938	3 3/16	81	4 1/2	114
5/16			8.000	3 3/16	81	4 1/2	114
		O	8.026	3 3/16	81	4 1/2	114
			8.100	3 5/16	84	4 5/8	117
			8.200	3 5/16	84	4 5/8	117
		P	8.204	3 5/16	84	4 5/8	117
			8.300	3 5/16	84	4 5/8	117
21/64			8.334	3 5/16	84	4 5/8	117
			8.400	3 7/16	87	4 3/4	121
		Q	8.433	3 7/16	87	4 3/4	121
			8.500	3 7/16	87	4 3/4	121
			8.600	3 7/16	87	4 3/4	121
		R	8.611	3 7/16	87	4 3/4	121
			8.700	3 7/16	87	4 3/4	121
11/32			8.733	3 7/16	87	4 3/4	121
			8.800	3 1/2	89	4 7/8	124
		S	8.839	3 1/2	89	4 7/8	124
			8.900	3 1/2	89	4 7/8	124
			9.000	3 1/2	89	4 7/8	124
		T	9.093	3 1/2	89	4 7/8	124
			9.100	3 1/2	89	4 7/8	124
23/64			9.129	3 1/2	89	4 7/8	124
			9.200	3 5/8	92	5	127
			9.300	3 5/8	92	5	127
		U	9.347	3 5/8	92	5	127
			9.400	3 5/8	92	5	127
			9.500	3 5/8	92	5	127
3/8			9.525	3 5/8	92	5	127
		V	9.576	3 5/8	92	5	127
			9.600	3 3/4	95	5 1/8	130
			9.700	3 3/4	95	5 1/8	130
			9.800	3 3/4	95	5 1/8	130
		W	9.804	3 3/4	95	5 1/8	130

HSS Straight Shank Twist Drill ANSI B94.11M(1)



Jobbers Length

Diameter of Drill				Flute Length		Overall Length	
D			Millimeter Equivalent	L		L	
Fraction	No.	Ltr.		Inch	mm	Inch	mm
25/64			9.900	3 3/4	95	5 1/8	130
			9.921	3 3/4	95	5 1/8	130
			10.000	3 3/4	95	5 1/8	130
		X	10.084	3 3/4	95	5 1/8	130
		Y	10.262	3 7/8	98	5 1/4	133
13/32			10.317	3 7/8	98	5 1/4	133
		Z	10.490	3 7/8	98	5 1/4	133
			10.500	3 7/8	98	5 1/4	133
27/64			10.716	3 15/16	100	5 3/8	137
			10.800	4 1/16	103	5 1/2	140
			11.000	4 1/16	103	5 1/2	140
7/16			11.112	4 1/16	103	5 1/2	140
			11.200	4 3/16	106	5 5/8	143
			11.500	4 3/16	106	5 5/8	143
29/64			11.509	4 3/16	106	5 5/8	143
			11.800	4 5/16	110	5 3/4	146
			11.908	4 5/16	110	5 3/4	146
15/32			12.000	4 3/8	111	5 7/8	149
			12.200	4 3/8	111	5 7/8	149
			12.304	4 3/8	111	5 7/8	149
			12.500	4 1/2	114	6	152
1/2			12.700	4 1/2	114	6	152
			12.800	4 1/2	114	6	152
			13.000	4 1/2	114	6	152
33/64			13.096	4 13/16	122	6 5/8	168
			13.200	4 13/16	122	6 5/8	168
			13.492	4 13/16	122	6 5/8	168







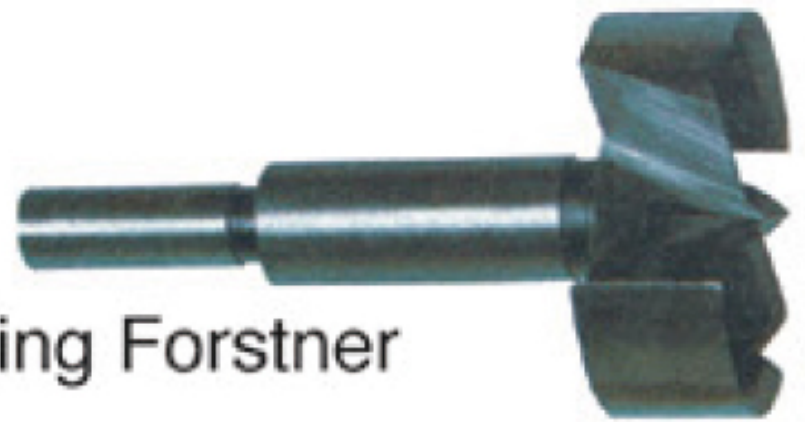

  

Diameter of Drill				Flute Length		Overall Length	
D			Millimeter Equivalent	L		L	
Fraction	No.	Ltr.		Inch	mm	Inch	mm
			13.500	4 13/16	122	6 5/8	168
			13.800	4 13/16	122	6 5/8	168
35/64			13.891	4 13/16	122	6 5/8	168
			14.000	4 13/16	122	6 5/8	168
			14.250	4 13/16	122	6 5/8	168
9/16			14.288	4 13/16	122	6 5/8	168
			14.500	4 13/16	122	6 5/8	168
37/64			14.684	4 13/16	122	6 5/8	168
			14.750	5 3/16	132	7 1/8	181
			15.000	5 3/16	132	7 1/8	181
19/32			15.083	5 3/16	132	7 1/8	181
			15.250	5 3/16	132	7 1/8	181
			15.479	5 3/16	132	7 1/8	181
39/64			15.500	5 3/16	132	7 1/8	181
			15.750	5 3/16	132	7 1/8	181
			15.875	5 3/16	132	7 1/8	181
5/8			16.000	5 3/16	132	7 1/8	181
			16.250	5 3/16	132	7 1/8	181
			16.271	5 3/16	132	7 1/8	181
41/64			16.500	5 3/16	132	7 1/8	181
			16.667	5 3/16	132	7 1/8	181
			16.750	5 5/8	143	7 5/8	194
21/32			17.000	5 5/8	143	7 5/8	194
			17.066	5 5/8	143	7 5/8	194
			17.250	5 5/8	143	7 5/8	194
43/64			17.462	5 5/8	143	7 5/8	194
			17.500	5 5/8	143	7 5/8	194





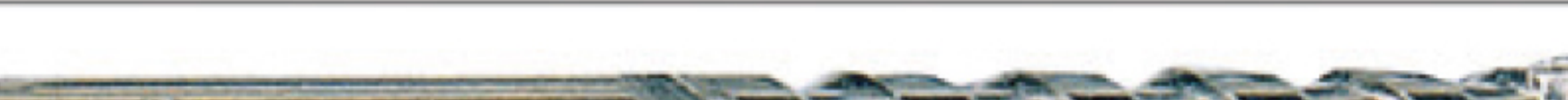




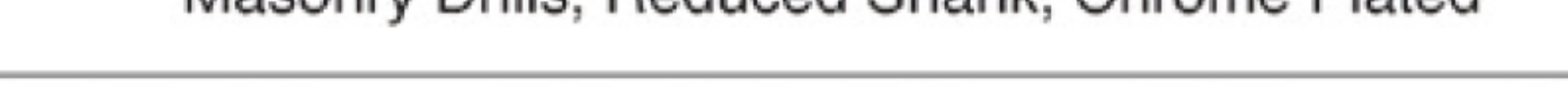
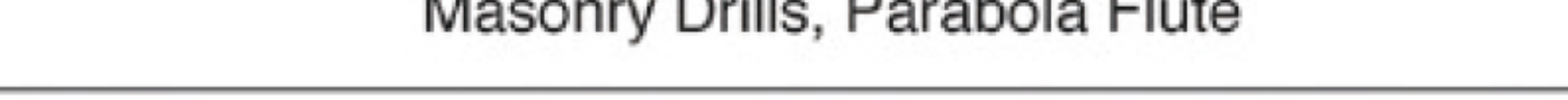
Reduced Shank Drills & Taper shank Drills

Item no. :	Picture	Manufacturing process	Material	Point Angle	Flute Type	Standard
HK-R01						
HK-R02						
HK-R03						DIN345 DIN341 ANSI
HK-R04			HSS M35	118		
HK-R05		Roll Forged	HSS M2	or	N	
		or	HSS 9341	135	or	
HK-R06		Milled	HSS 4341	split	VA	
HK-T07			HSS 4241	point		Special purpose drills According to customers samples or Drawing
HK-T08						
HK-T09						
HK-T10						

**Wood Working Drills**

Item No.	Wood Working Drills
HK-W01	 Roll Forged wood working Drills
HK-W02	 Edge Ground Wood Working Drills
HK-W03	 Tin-Coated Flat Bits
HK-W04	 Bright Flat Bits
HK-W05	 Bright Flat Bits, Extra Long Length
HK-W06	 Wood Working Drills, Extra Long Length
HK-W07	 Wood Working Forstner
HK-W08	 Wood Auger Bit

**Masonry Drill**

Item No.	Masonry Drills(Metric size series)	Standard
HK-M01	 Masonry Drills, Zinc Plated	DIN8039
HK-M02	 Masonry Drills, Black Oxide	
HK-M03	 Masonry Drills, Nickle Plated	
HK-M04	 Masonry Drills, Black & White	
HK-M05	 Masonry Drills, high-helix Nickle Plated	
HK-M06	 Masonry Drills, high-helix, Chrome Plated	
HK-M07	 Masonry Drills, Tin-Coated	
HK-M08	 Masonry Drills, high-helix Zine Plated	
HK-M09	 Masonry Drills, Reduced Shank, Chrome Plated	
HK-M10	 Masonry Drills, Parabola Flute	
HK-M11	 Masonry Drills, Extra Long Length	

### Step Drill/Pagoda Drill

**SHARP TIP WITHOUT BURRS**  
75° helix angle for smoother chip removal

**CHIP BREAKER**  
Effectively prevent metal splash

**NON-SLIP HEXAGONAL HANDLE**  
Hexagonal handle design effective anti-skid, installation is not loose

**SPIRAL FLUTE STEP DRILL BIT**

ONE DRILL FOR MULTIPLE PURPOSES • INDUSTRIAL GRADE

**REAMING/DRILLING CHAMFERING/DEBURRING**

You can achieve one-time processing of large holes, no need to replace the drill bit and positioning hole.

**TYPE X OPENINGS**  
118° split point tip increases cutting speed with self-centering and prevents walking, clear chips and particles faster

**118°**

**LASER MARKING**  
Sizes are laser etched into the metal so they will not wear out even after repeated use, make precise drilling easy

**TRIANGLE SHANK**  
Universal handle, reliable and durable

### Surface Treatment

Bright Finish   Titanium Coating   Black Oxide   Black&Golden   Cobalt Coating   Amber Color

### TiAlN Coating

**TiAlN Coating:** It offers high resistance to heat and oxidation. This enables working with a higher cutting speed and thus accelerating working processes. Compared to uncoated tools, TiAlN coating, increase an up to ten times longer service life.

### Nano-blue Coating

**Nano-blue Coating:** It enables the tool's cutting edge to retain crucial sharpness and lubricity with an extreme Nano hardness and heat resistance, which provides longevity and produces cutting results of the highest quality.

**New!**

**Cross-hole Cutter**

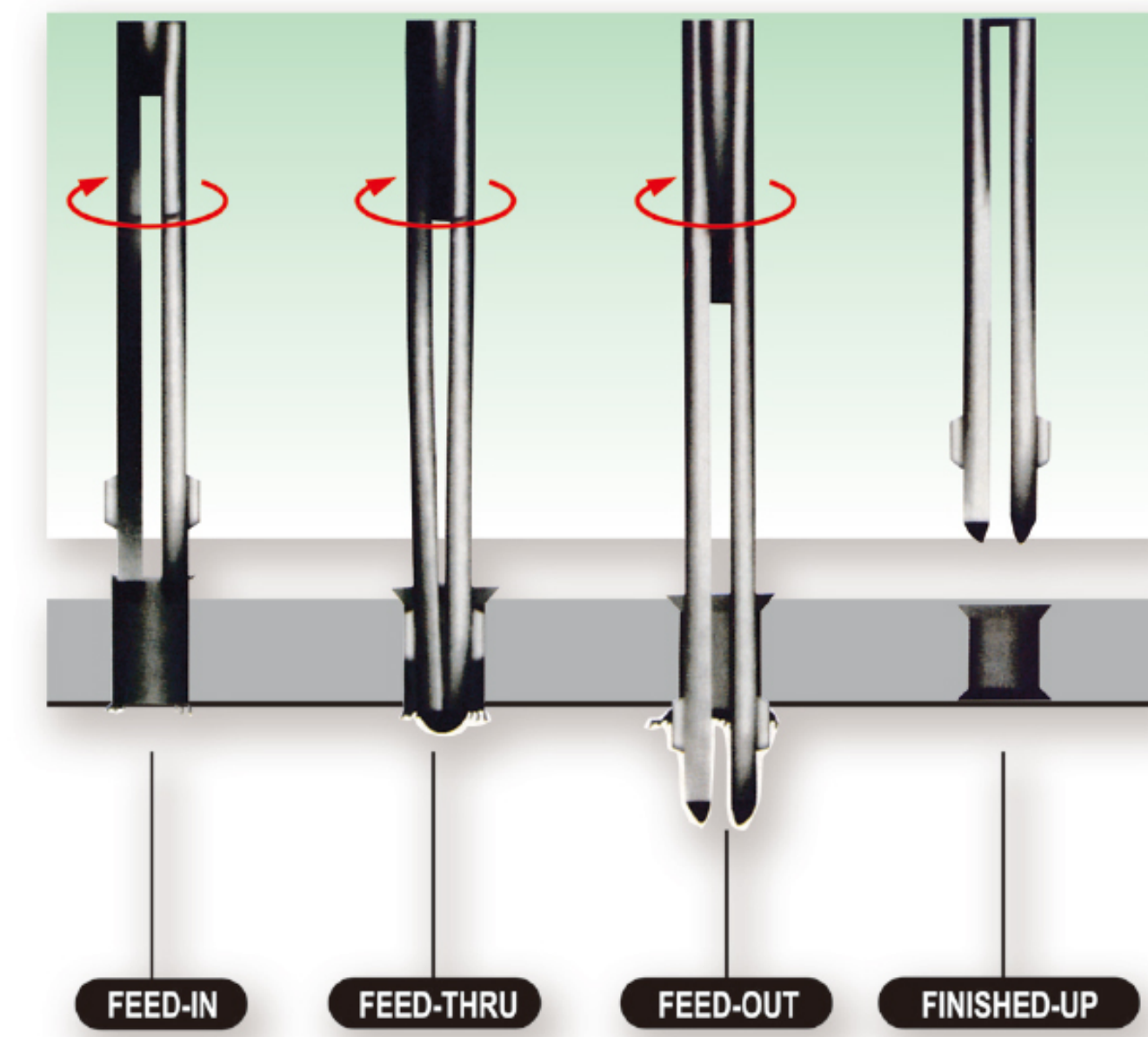


Material: high speed steel  
 Application: suitable for processing carbon steel, aluminum copper parts, steel parts, acrylic plastic  
 Features: high hardness, wear resistance, accurate positioning, good chip removal and high efficiency  
 Note: when the working temperature of chamfering cutter is high, water or cutting oil shall be added to cool, otherwise it will burn out

**Chamfering Tool for Inner Hole**

**ONE-PASS HOLE-DEBURRING-FRONT BACK OR BOTH**

Simple and Rugged One-Piece Construction  
 Allows cutting chips to clear easily



Tool sizes from .0315"(0.8mm) to .78"(20mm)

Most suitable for mass - production operation and readily adaptable to all types of production machines  
 Used by the leading automobile makers all over the world



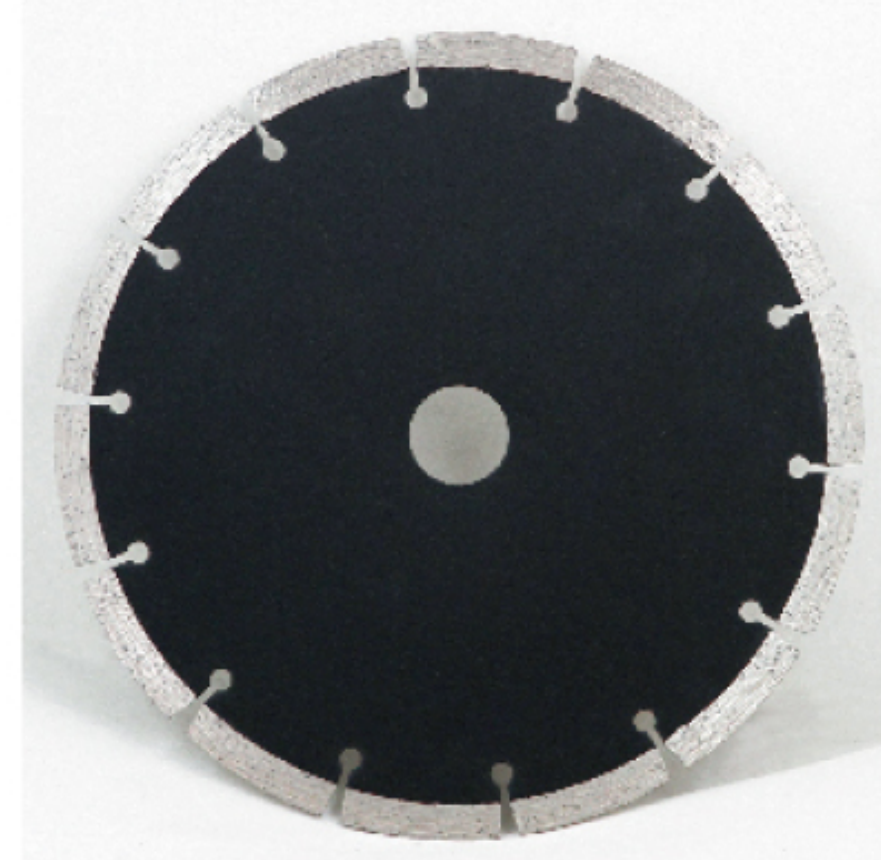
**Countersink**

Material: high speed steel  
 Type: single flute, three flutes, five flutes  
 Features: precise chamfering, once forming  
 Angle: 60°, 90°, 120°  
 Application: 304 stainless steel, die steel, aluminum plate, copper plate, acrylic plate, plastic and other materials



Tool Type	End Mill	Description	Diameter Ranges
HRC45°		2/4 Flutes flattened endmills for general cutting all kinds of materials	D1~D20
		2 Flutes ball nose endmills for general cutting all kinds of materials	D1~D20
		2 Flutes R endmills for general cutting all kinds of materials	D1~D20
		2 Flutes flattened endmills for cutting Aluminum alloys	D1~D20
HRC55°		2 Flutes flattened endmills for cutting all kinds of materials	D1~D20
		2 Flutes ball nose endmills for cutting all kinds of materials	D1~D20
		2 Flutes R endmills for cutting all kinds of materials	D1~D20
		2 Flutes flattened endmills for cutting Aluminum alloys	D1~D20
		DLC Coated solid carbide three - edge aluminium end mills	D1~D20
HRC63°		2/4 Flutes flattened endmills for cutting all kinds of materials	D1~D20
		2 Flutes ball nose endmills for cutting all kinds of materials	D1~D20
		2/4 Flutes R endmills for cutting all kinds of materials	D1~D20
		DLC coated U - groove high efficiency three - edge aluminum end mills	D1~D20
		Solid Carbide Micro 2 Flutes End Mill	D0.1~D0.9
		Solid Carbide Micro 2 Flutes End Mill	D0.1~D0.9

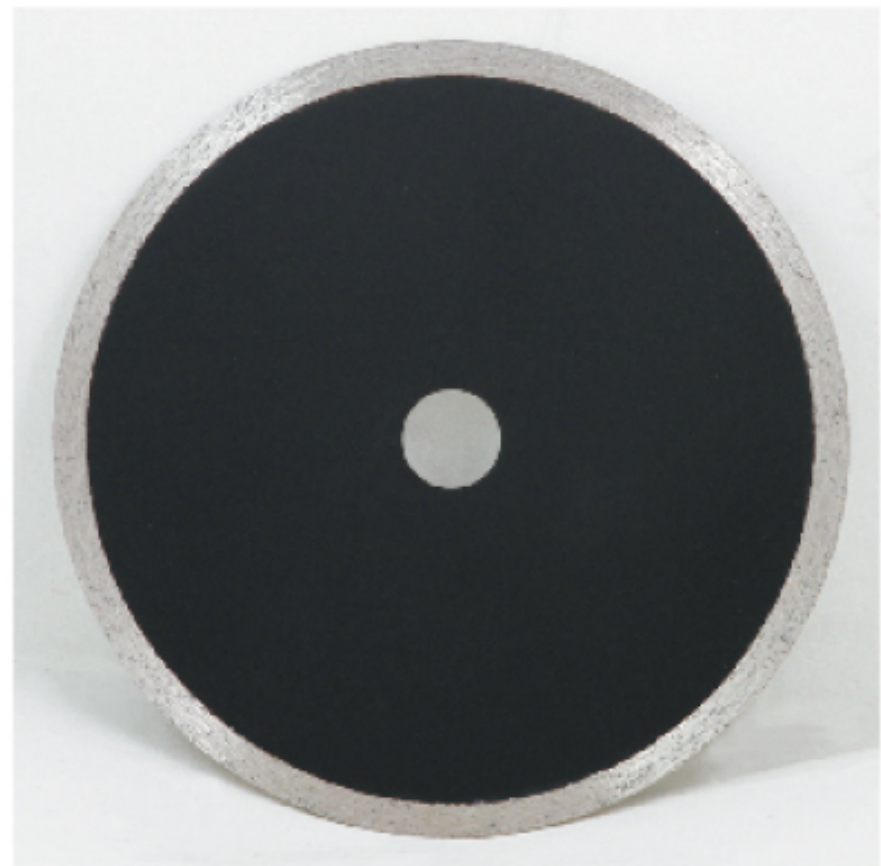
TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - concrete, granite, marble, stone ...  
 USE: **SEGMENTED** - DRY or WET



ITEM NO.	D.	B.	b.	d.	Seg Ht.	Seg Ht.	COMMENT
KNSCS.101.105	105	1.8	1.2	20	7 mm	10 mm	
KNSCS.101.110	110	1.8	1.2	20	7 mm	10 mm	
KNSCS.101.115	115	1.8	1.2	22.23	7 mm	10 mm	
KNSCS.101.125	125	2.0	1.2	22.23	7 mm	10 mm	
KNSCS.101.150	150	2.2	1.4	22.23	7 mm	10 mm	
KNSCS.101.180	180	2.4	1.6	22.23	7 mm	10 mm	
KNSCS.101.200	200	2.4	1.6	22.23	7 mm	10 mm	
KNSCS.101.230	230	2.6	1.8	22.23	7 mm	10 mm	
KNSCS.101.250	250	2.6	1.8	25.4	7 mm	10 mm	
KNSCS.101.300	300	3.0	2.0	25.4	7 mm	10 mm	
KNSCS.101.350	350	3.2	2.2	50	7 mm	10 mm	
KNSCS.101.114	114	1.8	1.2	20		12mm	



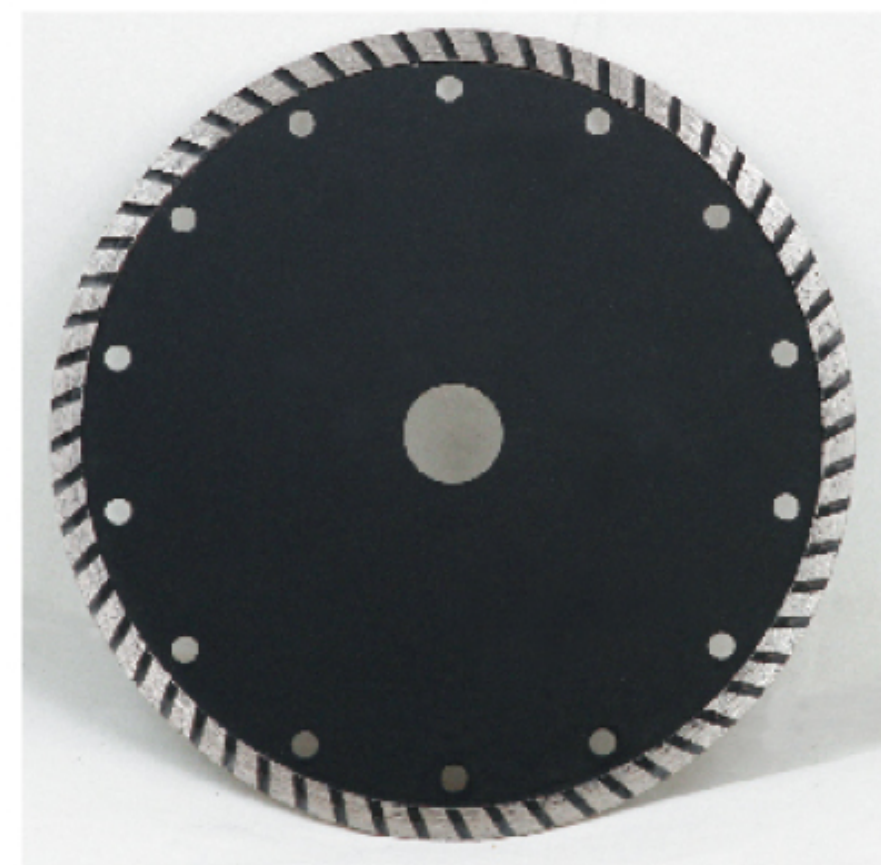
TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - granite, marble, stone, porcelain ...  
 USE: **CONTINUOUS RIM** - WET



ITEM NO.	D.	B.	b.	d.	Seg Ht.	Seg Ht.	COMMENT
KNSCC.101.105	105	1.8	1.2	20	7 mm	10 mm	
KNSCC.101.110	110	1.8	1.2	20	7 mm	10 mm	
KNSCC.101.115	115	1.8	1.2	22.23	7 mm	10 mm	
KNSCC.101.125	125	2.0	1.2	22.23	7 mm	10 mm	
KNSCC.101.150	150	2.2	1.4	22.23	7 mm	10 mm	
KNSCC.101.180	180	2.4	1.6	22.23	7 mm	10 mm	
KNSCC.101.200	200	2.4	1.6	22.23	7 mm	10 mm	
KNSCC.101.230	230	2.6	1.8	22.23	7 mm	10 mm	
KNSCC.101.250	250	2.6	1.8	25.4	7 mm	10 mm	
KNSCC.101.300	300	3.0	2.0	30	7 mm	10 mm	
KNSCC.101.350	350	3.2	2.2	50	7 mm	10 mm	
KNSCC.101.114	114	1.8	1.2	20		12 mm	



TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - concrete, granite, marble, stone ...  
 USE: **TURBO** - DRY or WET



ITEM NO.	D.	B.	b.	d.	Seg Ht.	Seg Ht.	COMMENT
KNSCT.201.105	105	2.2	1.2	20	8 mm	10 mm	
KNSCT.201.110	110	2.2	1.2	20	8 mm	10 mm	
KNSCT.201.115	115	2.2	1.2	22.23	8 mm	10 mm	
KNSCT.201.125	125	2.2	1.2	22.23	8 mm	10 mm	
KNSCT.201.150	150	2.4	1.4	22.23	8 mm	10 mm	
KNSCT.201.180	180	2.6	1.6	22.23	8 mm	10 mm	
KNSCT.201.200	200	2.6	1.6	22.23	8 mm	10 mm	
KNSCT.201.230	230	2.8	1.8	22.23	8 mm	10 mm	
KNSCT.201.250	250	2.8	1.8	25.4	8 mm	10 mm	
KNSCT.201.300	300	3.0	2.0	30	8 mm	10 mm	
KNSCT.201.350	350	3.2	2.2	50	8 mm	10 mm	
KNSCT.201.114	114	2.2	1.2			12 mm	



TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - concrete, granite, marble, stone ...  
 USE: **SINGLE ROW** - WET



ITEM NO.	D. - inch	D. - mm	d. - inch	d. - mm	Seg. Ht.	Seg No.	COMMENT
KNSGCS.201.105	4"	105	5/8" - 7/8"	16 - 22.23	5 mm	8	
KNSGCS.201.115	4-1/2"	115	5/8" - 7/8"	16 - 22.23	5 mm	9	
KNSGCS.201.125	5"	125	5/8" - 7/8"	16 - 22.23	5 mm	10	
KNSGCS.201.180	7"	180	5/8" - 7/8"	16 - 22.23	5 mm	12	



\* 12 segments for 100 mm with COOL PRESSED  
 \* ITEM NO. KNSGCS.301.100



TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - concrete, granite, marble, stone ...  
 USE: **DOUBLE ROW** - WET



ITEM NO.	D. - inch	D. - mm	d. - inch	d. - mm	Seg. Ht.	Seg No.	COMMENT
KNSGCS.202.105	4"	105	5/8" - 7/8"	16 - 22.23	5 mm	16	
KNSGCS.202.115	4-1/2"	115	5/8" - 7/8"	16 - 22.23	5 mm	16	
KNSGCS.202.125	5"	125	5/8" - 7/8"	16 - 22.23	5 mm	18	
KNSGCS.202.180	7"	180	5/8" - 7/8"	16 - 22.23	5 mm	28	



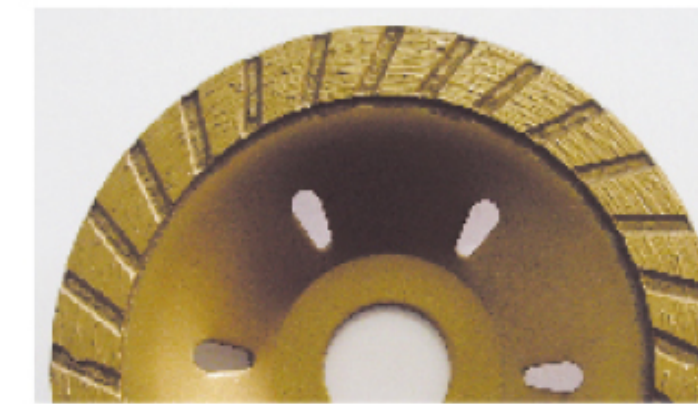
\* M14 design  
 \* SILVER BRAZED can offer with hot pressed segment.



TECH: **COOL PRESSED**  
 FOR: GENERAL PURPOSE - concrete, granite, marble, stone ...  
 USE: **TURBO** - WET



ITEM NO.	D. - inch	D. - mm	d. - inch	d. - mm	Seg. Size	COMMENT
KNSGCT.201.105	4"	105	5/8" - 7/8"	16 - 22.23	20 x 5 mm	
KNSGCT.201.115	4-1/2"	115	5/8" - 7/8"	16 - 22.23	20 x 5 mm	
KNSGCT.201.125	5"	125	5/8" - 7/8"	16 - 22.23	20 x 5 mm	
KNSGCT.201.180	7"	180	5/8" - 7/8"	16 - 22.23	20 x 5 mm	



\* 10 x 5 mm segment design.

