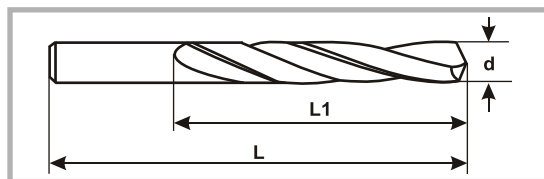


HSS Jobber Drills



► Features & Benefits

- Miranda Drills are made from M2 grade of HSS. M35 & M42 grades of HSS are also available on request.
- Miranda Drills are manufactured with Ground Flutes upto 1400mm and with milled flutes above 14.00mm
- Miranda Drills are available in Bright / Steam Blue Finish or with coating (TiN, TiCN, TiAlN)
- Miranda Drills point geometry - general purpose (118°), 90°, 135°, Split point 2.00mm to 14.00mm.

Manufacturing Standards

German

DIN 338

British

BS 328 Part I

Description	Standard Drills	High Helix Drills	Low Helix Drills
Size Range	1.20mm to 20.00mm	3.00mm to 14.00mm	3.00mm to 7.00mm
Helix Angle	25° - 30°	34° - 40°	17° - 23°
Web Thickness	Standard	Lower than standard	Lower than standard
Point Angle	118°	118° - 135°	90° - 118°
Relief Angle	10° - 20°	10° - 20°	10° - 20°
Applications	Most suitable for drilling of steel, cast iron, alloy steel and malleable cast iron and possible to drill stainless steel, brass, shallow hole in aluminium alloy, nickel and almost all kinds of material.	Most suitable for drilling of non-ferrous metals and alloys like aluminium, die cast alloy, zinc, copper etc. Fine result in normal drilling of stainless steel having good machinability.	Most suitable for drilling of Bakelite, moulded Bakelite, moulded plastics, fibre, hard rubber. Also, suitable for drilling of soft type of Brass and magnesium alloy.

Packing

Bulk Packing
Plastic pouch
Plastic tubes

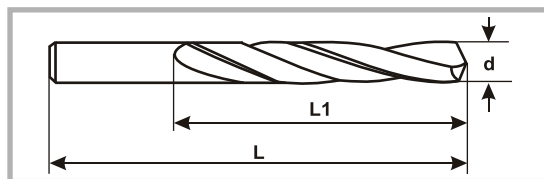
As per customer requirement

Metric Sizes As Per DIN 338

Drill Size	Flute Length	Overall Length
dmm	L1mm	Lmm
1.20	16	38
1.25	16	38
1.30	16	38
1.35	18	40
1.40	18	40
1.45	18	40
1.50	18	40
1.55	20	43
1.60	20	43
1.65	20	43
1.70	20	43
1.75	22	46
1.80	22	46
1.85	22	46
1.90	22	46
1.95	24	49
2.00	24	49
2.05	24	49
2.10	24	49
2.15	27	53
2.20	27	53
2.25	27	53
2.30	27	53
2.35	27	53
2.40	30	57
2.45	30	57
2.50	30	57
2.55	30	57
2.60	30	57
2.65	30	57
2.70	33	61
2.75	33	61
2.80	33	61
2.85	33	61
2.90	33	61
2.95	33	61
3.00	33	61

Intermediate sizes are available on request

HSS Jobber Drills



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Manufacturing Standards

German

DIN 338

British

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Point Angle	118°	118° - 135°	90° - 118°
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Applications	Most suitable for drilling of steel, cast iron, alloy steel and malleable cast iron and possible to drill stainless steel, brass, shallow hole in aluminium alloy, nickel and almost all kinds of material.	Most suitable for drilling of non-ferrous metals and alloys like aluminium, die cast alloy, zinc, copper etc. Fine result in normal drilling of stainless steel having good machinability.	Most suitable for drilling of Bakelite, moulded Bakelite, moulded plastics, fibre, hard rubber. Also, suitable for drilling of soft type of Brass and magnesium alloy.

Packing

Bulk Packing

Plastic pouch

Plastic tubes

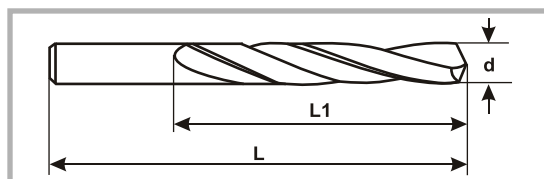
As per customer requirement

Metric Sizes As Per DIN 338

Drill Size	Flute Length	Overall Length
dmm	L1mm	Lmm
3.10	36	65
3.20	36	65
3.30	36	65
3.40	39	70
3.50	39	70
3.60	39	70
3.70	39	70
3.80	43	75
3.90	43	75
4.00	43	75
4.10	43	75
4.20	43	75
4.30	47	80
4.40	47	80
4.50	47	80
4.60	47	80
4.70	47	80
4.80	52	86
4.90	52	86
5.00	52	86
5.10	52	86
5.20	52	86
5.30	52	86
5.40	57	93
5.50	57	93
5.60	57	93
5.7	57	93
5.80	57	93
5.90	57	93
6.00	57	93
6.10	63	101
6.20	63	101
6.30	63	101
6.40	63	101
6.50	63	101
6.60	63	101
6.70	63	101
6.80	69	109
6.90	69	109
7.00	69	109

Intermediate sizes are available on request

HSS Jobber Drills



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Manufacturing Standards

German

DIN 338

British

BS 328 Part I

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Point Angle	118°	118° - 135°	90° - 118°
Relief Angle	10° - 20°	10° - 20°	10° - 20°
Applications	Most suitable for drilling of steel, cast iron, alloy steel and malleable cast iron and possible to drill stainless steel, brass, shallow hole in aluminium alloy, nickel and almost all kinds of material.	Most suitable for drilling of non-ferrous metals and alloys like aluminium, die cast alloy, zinc, copper etc. Fine result in normal drilling of stainless steel having good machinability.	Most suitable for drilling of Bakelite, moulded Bakelite, moulded plastics, fibre, hard rubber. Also, suitable for drilling of soft type of Brass and magnesium alloy.

Packing

Bulk Packing
 Plastic pouch
 Plastic tubes

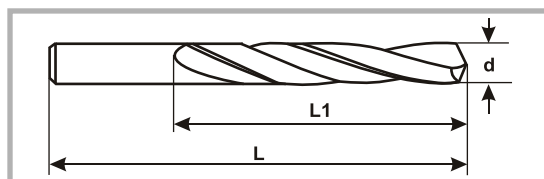
As per customer requirement

Metric Sizes As Per DIN 338

Drill Size	Flute Length	Overall Length
dmm	L1mm	Lmm
7.10	69	109
7.20	69	109
7.30	69	109
7.40	69	109
7.50	69	109
7.60	75	117
7.70	75	117
7.80	75	117
7.90	75	117
8.00	75	117
8.10	75	117
8.20	75	117
8.30	75	117
8.40	75	117
8.50	75	117
8.60	81	125
8.70	81	125
8.80	81	125
8.90	81	125
9.00	81	125
9.10	81	125
9.20	81	125
9.30	81	125
9.40	81	125
9.50	81	125
9.60	87	133
9.70	87	133
9.80	87	133
9.90	87	133
10.00	87	133
10.10	87	133
10.20	87	133
10.30	87	133
10.40	87	133
10.50	87	133
10.60	87	133
10.70	94	142
10.80	94	142
10.90	94	142
11.00	94	142

Intermediate sizes are available on request

HSS Jobber Drills



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Manufacturing Standards

German

DIN 338

British

BS 328 Part I

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Point Angle	118°	118° - 135°	90° - 118°
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Packing

Bulk Packing

Plastic pouch

Plastic tubes

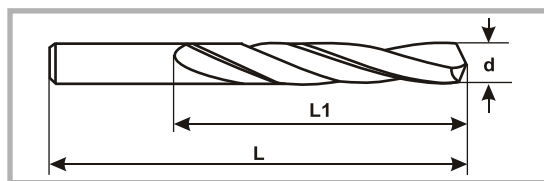
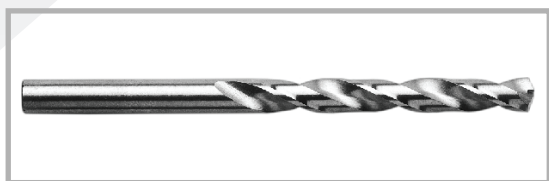
As per customer requirement

Metric Sizes As Per DIN 338

Drill Size	Flute Length	Overall Length
dmm	L1mm	Lmm
11.10	94	142
11.20	94	142
11.30	94	142
11.40	94	142
11.50	94	142
11.60	94	142
11.70	94	142
11.80	94	142
11.90	101	151
12.00	101	151
12.10	101	151
12.20	101	151
12.30	101	151
12.40	101	151
12.50	101	151
12.60	101	151
12.70	101	151
12.80	101	151
12.90	101	151
13.00	101	151
13.10	101	151
13.20	101	151
13.30	108	160
13.40	108	160
13.50	108	160
13.60	108	160
13.70	108	160
13.80	108	160
13.90	108	160
14.00	108	160
14.25	114	169
14.75	114	169
15.00	114	169
15.25	120	178
15.50	120	178
15.75	120	178
16.00	120	178
16.25	125	184
16.50	125	184
17.00	125	184

Intermediate sizes are available on request

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Manufacturing Standards

German

DIN 338

British

BS 328 Part I

Metric Sizes As Per DIN 338		
Drill Size	Flute Length	Overall Length
dmm	L1mm	Lmm
17.25	130	191
17.50	130	191
17.75	130	191
18.00	130	191
18.25	135	198
18.50	135	198
18.75	135	198
19.00	135	198
19.25	140	205
19.50	140	205
19.75	140	205
20.00	140	205

Intermediate sizes are available on request

Description	Standard Drills	High Helix Drills	Low Helix Drills
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Packing

- Bulk Packing
- Plastic pouch
- Plastic tubes
- As per customer requirement