

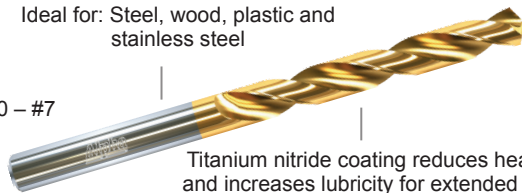
## GOLD SERIES HSS Drills & Sets

Metric: 0.3mm – 13.5mm,  
Imperial: 1/64" – 1/2" & Gauge #40 – #7



135° split point cuts faster and reduces wandering

Ideal for: Steel, wood, plastic and stainless steel



Titanium nitride coating reduces heat and increases lubricity for extended life



**Alpha**  
TUFFBOX.

Metric: 13, 19, 25, 85 & 100 pce sets  
Imperial: 13, 21 & 29

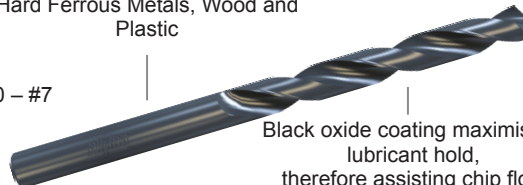
## BLACK SERIES HSS Drills & Sets

Metric: 0.3mm – 13.5mm,  
Imperial: 1/64" – 1/2" & Gauge #40 – #7



118° split point reduces wandering

Ideal for heavy duty drilling:  
Hard Ferrous Metals, Wood and Plastic



Black oxide coating maximises lubricant hold, therefore assisting chip flow and heat dissipation



**Alpha**  
TUFFBOX.

Metric: 19 & 25 pce sets,  
Imperial: 21 & 29 pce sets

## COBALT SERIES HSS Drills & Sets

Metric: 0.3mm – 13.5mm,  
Imperial: 1/64" – 1/2" & Gauge #40 – #7



135° split point cuts faster and reduces wandering

Ideal for heavy duty drilling:  
Stainless steel, high tensile steel and cast iron



Fully ground HSS Cobalt increases strength and drill life



**Alpha**  
TUFFBOX.

Metric: 19 & 25 pce sets,  
Imperial: 29 pce sets

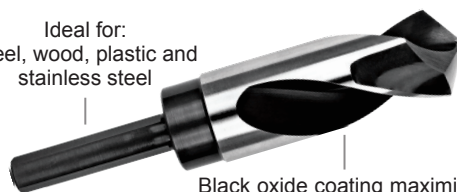
## REDUCED SHANK

Metric: 10.5mm – 13.5mm  
Imperial: 13/32" – 1/2"



118° split point, ideal for drilling into predrilled pilot holes

Ideal for:  
Steel, wood, plastic and stainless steel



Black oxide coating maximises lubricant hold, therefore assisting chip flow and heat dissipation



**Alpha**

Metric: 5 & 8 pce sets,  
Imperial: 5 & 8 pce sets

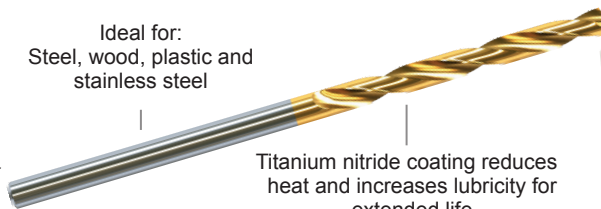
## LONG SERIES GOLD

Metric: 2mm – 13mm  
Imperial: 5/64" – 1/2"



135° split point cuts faster and reduces wandering

Ideal for:  
Steel, wood, plastic and stainless steel



Titanium nitride coating reduces heat and increases lubricity for extended life



**Alpha**

Imperial: 6 piece set  
Code: 9ELM-SET6

## HSS IMPACT Gold Series

Metric: 2mm – 13mm

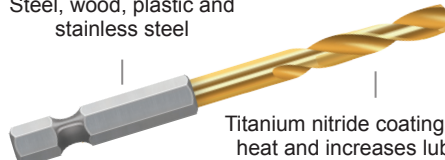


135° split point cuts faster and reduces wandering

1/4" QUICK CHANGE



Ideal for:  
Steel, wood, plastic and stainless steel



Titanium nitride coating reduces heat and increases lubricity for extended life

Suitable for  
IMPACT DRIVERS



**Alpha**

Metric: 23 pce set  
Code: SM23HPB

SCAN TO SEE the Impact Drill in action

## MULTI - MATERIAL DRILL BITS



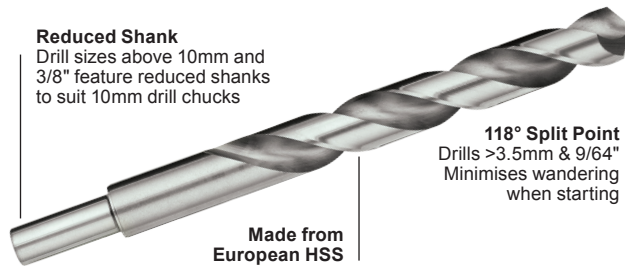
**SHOCKWAVE**  
IMPACT DUTY

The MILWAUKEE® SHOCKWAVE™ Multi-Material Drill Bits have been designed with a 2 cutter carbide tip to provide durability along with versatility for drilling into a wide range of tough materials including; Concrete, Bricks, Roof Tiles, Thin Metal, Ceramic, Tiles, Wood, PVC, Aluminum, Drywall and More. Equipped with a 1/4" hex shank, these multi-material drill bits are compatible with impacts, drill/drivers, and hammer drills. MILWAUKEE® SHOCKWAVE™ Multi-Material Drill Bits provides the ideal all-in-one solution for the widest variety of materials, tools, and applications, sizes available from 3mm to 12mm.

Product Code	Description
4932471091	3mm x 90mm Multi-Material Drill Bit
4932471092	4mm x 90mm Multi-Material Drill Bit
4932471093	5mm x 100mm Multi-Material Drill Bit
4932471094	5.5mm x 100mm Multi-Material Drill Bit
4932471096	6mm x 100mm Multi-Material Drill Bit
4932471100	6.5mm x 150mm Multi-Material Drill Bit
4932471103	7mm x 100mm Multi-Material Drill Bit
4932471104	8mm x 120mm Multi-Material Drill Bit
4932471105	8mm x 260mm Multi-Material Drill Bit
4932471107	10mm x 120mm Multi-Material Drill Bit
4932471108	10mm x 260mm Multi-Material Drill Bit
4932471110	12mm x 150mm Multi-Material Drill Bit
4932471111	12mm x 260mm Multi-Material Drill Bit
4932471112	Multi-Material 8Pc Drill Bit Set (1) 4 x 90mm, (2) 5 x 100mm, (2) 6 x 100mm, (1) 8 x 120mm, (1) 10 x 120mm, (1) 12 x 150mm

## JOBBER DRILL - VIPER

General purpose drill bit designed for machine and hand held drilling in a wide range of ferrous and non-ferrous materials.



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VIPER



METRIC				
Diameter mm	O/A Length	Flute Length	Shank mm	Item #
1.0	34	12		D105 0100
1.5	40	18		D105 0150
2.0	49	24		D105 0200
2.5	57	30		D105 0250
3.0	61	33		D105 0300
3.5	70	39		D105 0350
4.0	75	43		D105 0400
4.5	80	47		D105 0450
5.0	86	52		D105 0500
5.5	93	57		D105 0550
6.0	93	57		D105 0600
6.5	101	63		D105 0650
7.0	109	69		D105 0700
7.5	109	69		D105 0750
8.0	117	75		D105 0800
8.5	117	75		D105 0850
9.0	125	81		D105 0900
9.5	125	81		D105 0950
10.0	133	87		D105 1000
10.5†	133	87	10	D105 1050
11.0†	142	94	10	D105 1100
11.5†	142	94	10	D105 1150
12.0†	151	101	10	D105 1200
12.5†	151	101	10	D105 1250
13.0†	151	101	10	D105 1300

IMPERIAL					
Diameter mm	Length	O/A Length	Flute mm	Shank mm	Item #
1/16	1.59	48	22		D105 0159
5/64	1.98	51	25		D105 0198
3/32	2.38	57	32		D105 0238
7/64	2.78	67	38		D105 0278
1/8	3.18	70	41		D105 0318
9/64	3.57	73	44		D105 0357
5/32	3.97	79	51		D105 0397
11/64	4.37	83	54		D105 0437
3/16	4.76	89	59		D105 0476
13/64	5.16	92	62		D105 0516
7/32	5.56	95	64		D105 0556
15/64	5.95	98	67		D105 0595
1/4	6.35	101	63		D105 0635
17/64	6.75	105	73		D105 0676
9/32	7.14	108	75		D105 0714
19/64	7.54	111	78		D105 0754
5/16	7.94	114	81		D105 0794
21/64	8.33	117	84		D105 0833
11/32	8.73	121	87		D105 0873
23/64	9.13	124	89		D105 0913
3/8	9.52	127	92		D105 0953
25/64†	9.92	130	95	3/8	D105 0992
13/32†	10.32	133	98	3/8	D105 1032
27/64†	10.72	137	100	3/8	D105 1072
7/16†	11.11	140	103	3/8	D105 1111
29/64†	11.51	143	106	3/8	D105 1151
15/32†	11.91	146	110	3/8	D105 1191
31/64†	12.30	151	111	3/8	D105 1231
1/2†	12.70	152	114	3/8	D105 1269

† Viper Bits have 10mm (3/8") reduced shank for sizes > 10mm (3/8").

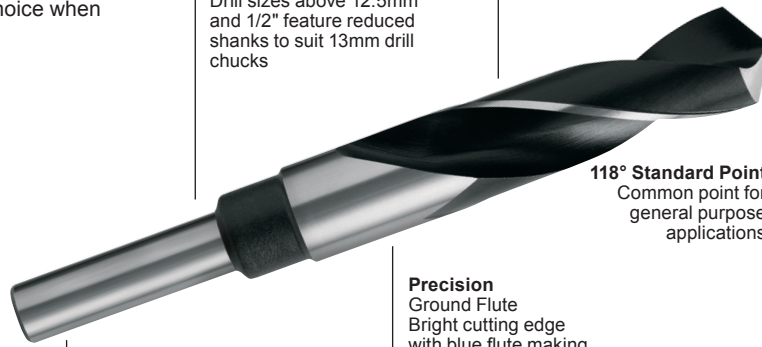
## REDUCED SHANK

Precision ground flute - bright cutting edge with blue flute making it a better choice when drilling ferrous materials.

Use low speed, 350RPM or less.  
Secure workpiece and drill firmly.

**Reduced Shank**  
Drill sizes above 12.5mm and 1/2" feature reduced shanks to suit 13mm drill chucks

Made from European High Speed Steel



**118° Standard Point**  
Common point for general purpose applications

**Size**  
152mm (6") overall length with a 86mm (3-3/8") flute length

**Precision Ground Flute**  
Bright cutting edge with blue flute making it a better choice when drilling ferrous materials

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### Metric

Diameter mm	O/A Length	Flute Length	Shank Inch	Item #
13.5	152	86	1/2	D188 1350
14.0	152	86	1/2	D188 1400
14.5	152	86	1/2	D188 1450
15.0	152	86	1/2	D188 1500
15.5	152	86	1/2	D188 1550
16.0	152	86	1/2	D188 1600
16.5	152	86	1/2	D188 1650
17.0	152	86	1/2	D188 1700
17.5	152	86	1/2	D188 1750
18.0	152	86	1/2	D188 1800
18.5	152	86	1/2	D188 1850
19.0	152	86	1/2	D188 1900
19.5	152	86	1/2	D188 1950
20.0	152	86	1/2	D188 2000
20.5	152	86	1/2	D188 2050
21.0	152	86	1/2	D188 2100
21.5	152	86	1/2	D188 2150
22.0	152	86	1/2	D188 2200
22.5	152	86	1/2	D188 2250
23.0	152	86	1/2	D188 2300
23.5	152	86	1/2	D188 2350
24.0	152	86	1/2	D188 2400
24.5	152	86	1/2	D188 2450
25.0	152	86	1/2	D188 2500
26.0	152	86	1/2	D188 2600
28.0	152	86	1/2	D188 2800
30.0	152	86	1/2	D188 3000

### Sets Metric

Contents	Case	Pieces	Item #
16.0, 18.0, 22.0, 25.0mm with 12.5mm shanks	Foam	4	D188 RS4M
14.0, 15.0, 16.0, 16.5, 18.0, 20.0, 22.0, 25.0mm with 12.5mm shanks	Plastic	8	D188 SM8R

### Sets Imperial

5/8, 3/4, 7/8, 1 with 1/2" shanks	Foam	4	D188 RS4
9/16, 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1 with 1/2" shanks	Plastic	8	D188 S8R
17/32, 9/16, 19/32, 5/8, 21/32, 11/16, 23/32, 3/4, 25/32, 13/16, 27/32, 7/8, 29/32, 15/16, 31/32, 1 with 1/2" shanks	Plastic	16	D188 RS16

### IMPERIAL

Diameter inch	Diameter mm	O/A Length	Flute Length	Shank Inch	Item #
33/64	13.10	152	86	1/2	D188 1310
17/32	13.49	152	86	1/2	D188 1349
35/64	13.89	152	86	1/2	D188 1389
9/16	14.29	152	86	1/2	D188 1429
37/64	14.68	152	86	1/2	D188 1468
19/32	15.08	152	86	1/2	D188 1508
39/64	15.48	152	86	1/2	D188 1548
5/8	15.87	152	86	1/2	D188 1588
41/64	16.27	152	86	1/2	D188 1627
21/32	16.67	152	86	1/2	D188 1667
43/64	17.06	152	86	1/2	D188 1707
11/16	17.46	152	86	1/2	D188 1746
45/64	17.86	152	86	1/2	D188 1786
23/32	18.26	152	86	1/2	D188 1826
47/64	18.65	152	86	1/2	D188 1865
3/4	19.05	152	86	1/2	D188 1905
49/64	19.45	152	86	1/2	D188 1945
25/32	19.84	152	86	1/2	D188 1984
51/64	20.24	152	86	1/2	D188 2024
13/16	20.64	152	86	1/2	D188 2064
27/32	21.43	152	86	1/2	D188 2143
7/8	22.22	152	86	1/2	D188 2223
29/32	23.02	152	86	1/2	D188 2302
15/16	23.81	152	86	1/2	D188 2381
31/32	24.61	152	86	1/2	D188 2461
1	25.40	152	86	1/2	D188 2540
1-1/16	26.99	152	86	1/2	D188 2699
1-1/8	28.57	152	86	1/2	D188 2858
1-3/16	30.16	152	86	1/2	D188 3016
1-1/4	31.75	152	86	1/2	D188 3175

### 3/8 Reduced Shank

9/16	14.29	152	86	3/8	D120 1429
5/8	15.87	152	86	3/8	D120 1588
3/4	19.05	152	86	3/8	D120 1905



D188 RS4M



D188 SM8R

Note: Overall and flute lengths do not include drill point.

## MORSE TAPER SHANK

- General purpose drill
- Suitable for materials up to 900N/mm<sup>2</sup>



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Diameter mm	O/A Inch	Flute Length mm	MT #	Item #
13.00		182	1	D115 1300
13.50		189	1	D115 1350
14.00		189	1	D115 1400
14.29	9/16	212	2	D115 1429
14.50		212	2	D115 1450
15.00		212	2	D115 1500
15.50		218	2	D115 1550
15.87	5/8	218	2	D115 1588
16.00		218	2	D115 1600
16.50		223	2	D115 1650
17.00		223	2	D115 1700
17.50		228	2	D115 1750
18.00		228	2	D115 1800
18.50		233	2	D115 1850
19.00		233	2	D115 1900
19.05	3/4	238	2	D115 1905
19.50		238	2	D115 1950
20.00		238	2	D115 2000
20.50		243	2	D115 2050
20.64	13/16	243	2	D115 2064
21.00		243	2	D115 2100
21.50		248	2	D115 2150
22.00		248	2	D115 2200
22.22	7/8	248	2	D115 2223
22.50		253	2	D115 2250
23.00		253	2	D115 2300
23.50		276	3	D115 2350
23.81	15/16	281	3	D115 2381
24.00		281	3	D115 2400
24.50		281	3	D115 2450
25.00		281	3	D115 2500
25.40	1"	286	3	D115 2540
25.50		286	3	D115 2550
26.00		286	3	D115 2600
26.50		286	3	D115 2650
26.99	1-1/16	291	3	D115 2699
27.00		291	3	D115 2700
27.50		291	3	D115 2750
28.00		291	3	D115 2800
28.50		296	3	D115 2850
29.00		296	3	D115 2900
29.50		296	3	D115 2950
30.00		296	3	D115 3000
30.50		301	3	D115 3050
31.00		301	3	D115 3100
31.50		301	3	D115 3150

Diameter mm	O/A Inch	Flute Length mm	MT #	Item #
31.75	1-1/4	306	3	D115 3175
32.00		334	4	D115 3200
32.50		334	4	D115 3250
33.00		334	4	D115 3300
33.40	1-5/16	334	4	D115 3334
33.50		334	4	D115 3350
34.00		339	4	D115 3400
34.50		339	4	D115 3450
34.92	1-3/8	339	4	D115 3493
35.00		339	4	D115 3500
35.50		339	4	D115 3550
36.00		344	4	D115 3600
36.50		344	4	D115 3650
37.00		344	4	D115 3700
37.50		344	4	D115 3750
38.00		349	4	D115 3800
38.10	1-1/2	349	4	D115 3810
38.50		349	4	D115 3850
39.00		349	4	D115 3900
39.50		349	4	D115 3950
40.00		349	4	D115 4000
40.50		354	4	D115 4050
41.00		354	4	D115 4100
41.27	1-5/8	354	4	D115 4128
41.50		354	4	D115 4150
42.00		354	4	D115 4200
42.50		354	4	D115 4250
43.00		359	4	D115 4300
43.50		359	4	D115 4350
44.00		359	4	D115 4400
44.45	1-3/4	359	4	D115 4445
44.50		359	4	D115 4450
45.00		359	4	D115 4500
45.50		364	4	D115 4550
46.00		364	4	D115 4600
46.50		364	4	D115 4650
47.00		364	4	D115 4700
47.50		364	4	D115 4750
47.63	1-7/8	369	4	D115 4763
48.00		369	4	D115 4800
48.50		369	4	D115 4850
49.00		369	4	D115 4900
49.50		369	4	D115 4950
50.00		369	4	D115 5000
50.50		374	4	D115 5050
50.80	2"	374	4	D115 5080

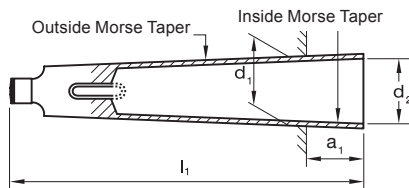
Other sizes available on request: 5.5 - 51.0mm, 1/8 - 3"

## MORSE TAPER ACCESSORIES

Morse Taper Sleeve  
- Hardened alloy steel

- Precision ground internally and externally

Drill Drift key - to eject Morse Taper drills from sleeves, sockets and machine spindles



### Morse Taper Sleeve

MT # (Internal)	MT # (External)	d <sub>1</sub>	l <sub>1</sub>	a <sub>1</sub>	d <sub>2</sub>	Item #	Item #
1	2	17.780	92	17	12.065		D118 0012
1	3	23.825	99	5	12.065		D118 0013
2	3	23.825	112	18	17.78		D118 0023
(1)*	4	31.267	124	6.5	12.065		D118 0014
2	4	31.267	124	6.5	17.78		D118 0024
3	4	31.267	140	22.5	23.825		D118 0034
(1)*	5	44.399	156	6.5	12.065		D118 0015
(2)*	5	44.399	156	6.5	17.78		D118 0025
3	5	44.399	156	6.5	23.825		D118 0035
4	5	44.399	171	21.5	31.267		D118 0045
3	6	63.348	218	8	23.825		D118 0036
4	6	63.348	218	8	31.267		D118 0046
5	6	63.348	218	8	44.399		D118 0056

### Drill Drift Key

MT #1 & #2

D142 MT1

MT #3

D142 MT3

MT #4

D142 MT4