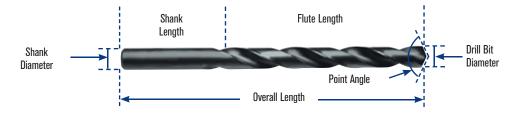
Engineered for Controlled Precision and Speed



Overall Length: The length from the point to the end of the drill bit

Point Angle: The angle of the cutting edges

Drill Diameter: The cutting diameter of the drill bit

Shank Length: The end of the drill bit that is secured by the drill Flute Length: The length from the point to the end of the flutes

Tip Geometry



118° Conventional Point

- General use
- Not self-centering
- Best for stationary drills
- Performs better in softer materials vs. hard metal



118° Point Angle



135° Split Point

- Self-centering (won't "walk")
- Best for portable drills
- Requires less force than 118°



135° Point Angle



TURBOMAX® Tip

- Self-centering (won't "walk")
- Precision-ground to stay sharp longer and drill faster
- Best for portable drills
- Requires less force than 118°

Drill Bit Selection							
		Black & Gold	TURBOMAX®	Heavy-Duty	Titanium Nitride (TiN) Coated	Cobalt	General Purpose
Material	Point Angle	(135°)	(TURBOMAX)	(135°)	(135°)	(135°)	(118°)
Wood/Drywall		•	•	•	•	•	•
Sheet Metal		•	•	•	•	•	•
Mild Steel		•	•	•	•	•	•
ligh Alloy Steels		•	•	•	•	•	
Stainless Steel		•	•	•	•	•	•
Cast Iron		•	•	•	•	•	•
Juminum, Brass 8	& Copper	•	•	•	•	•	•
lastic		•	•	•	•		•

Key: ● Recommended ● Acceptable ● Not Recommended

UNIBIT® HSS Metric Titanium Nitride (TiN) Coated



16103

 Titanium Nitride coating resists heat and friction, extending the cutting edge life up to six times longer than other high speed steel step drill bits.

Description

#1MT

#2MT

#3MT

#4MT

#5MT

4 mm - 12 mm (1 mm steps)

4 mm - 12 mm (2 mm steps)

6 mm - 18 mm (2 mm steps)

4 mm - 22 mm (2 mm steps)

1/8" - 1/2" (1/32" steps)

5 mm - 35 mm (2 - 3 mm steps)

SpeedPoint[®] tip for fast starts.*

UNIBIT HSS Fractional



- SpeedPoint[®] tip for fast starts.*
- Geometry of single-flute cutting edge drills true, round holes and provides maximum step control.

.Sets: 10225, 10228, 10502

<u> </u>	#2	3/16" - 1/2" (1/16" steps)	6	1/4"	10232
À	#3	1/4" - 3/4" (1/16" steps)	9	3/8"	10233
À	#4	3/16" - 7/8" (1/16" steps)	12	3/8"	10234
A	#5	1/4" - 1-3/8" (1/8" steps)	10	7/16"	10235
_	#9	7/8" and 1-1/8" (1/2" and 3/4" Knock-Out)	2	7/16"	10239
	#10	1/2" (single hole)	1	1/4"	10310
	#11	7/8" (single hole)	1	3/8"	10311ZR
	#12	3/8" (single hole)	1	1/4"	10312ZR
	#13	1-1/8" (single hole)	1	7/16"	10313ZR
	#14	1-7/32" (single hole)	1	7/16"	10314
	#20	9/16" - 1" (hole enlarging)	8	7/16"	10220
	#21	13/16" - 1-3/8"(hole enlarging)	10	7/16"	10221

of Hole Sizes

9

7

10

13

of Hole Sizes Hex Shank Size

16101

16102

16103

16104

16105

10231

1/4"

1/4"

3/8"

3/8"

7/16"

Hex Shank Size

1/4"

	Descripti	on	# of Hole Sizes	Hex Shank Size	Carded Item #
<u> </u>	#1M	4 mm - 12 mm (1 mm steps)	9	1/4"	11101ZR
A	#2M	4 mm - 12 mm (2 mm steps)	5	1/4"	11102
Ā	#3M	6 mm - 18 mm (2 mm steps)	7	3/8"	11103
À	#4M	4 mm - 22 mm (2 mm steps)	10	3/8"	11104
Δ	#5M	5 mm - 35 mm (2-3 mm steps)	13	7/16"	11105ZR
	#20M	14 mm - 24 mm (hole enlarging)	6	7/16"	11580
	#21M	20 mm - 34 mm (hole enlarging)	8	7/16"	11581
	PG29M	5 mm - 28.3 mm	10	7/16"	11194
	29 mm	5 mm - 29 mm	10	7/16"	11195

Description	Туре	Contents	Item #
4-Piece Set	High Speed Steel Set	#1, 2, 4 & 21	10225
4-Piece Set	High Speed Steel Set w/#1 TiN	#1, 2 & 3 plus #1T	10228
3-Piece Set	High Speed Steel Set	#1, 2 & 3	10502ZR
3-Piece Set	Titanium Nitride Coated Set	#1T, 2T & 3T	15502
3-Piece Set	Cobalt Set	#1C, 2C & 3C	10502CB
9-Piece Set	Unibit/TiN Turbomax Set	#1, #4 & 7-Piece TiN (1/16", 3/32", 1/8", 3/16",7/32", 1/4", 3/8")	3018008

UNIBIT HSS Metric



11101ZR

- SpeedPoint® tip for fast starts.*
- Geometry of single-flute cutting edge drills true, round holes and provides maximum step control.

UNIBIT Sets



10502CB

*included on all self-starting sizes except for #1