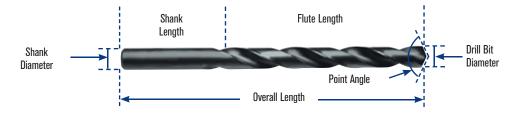
Engineered for Controlled Precision and Speed



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 Step Drill Bits — Drill Multiple Hole Sizes with One Bit

IRWIN® UNIBIT® step drill bits are ideal for drilling holes in just about any type of thin material. General purpose high speed steel UNIBIT step drill bits are perfect for use in mild steel, copper, brass, aluminum, plexiglass, wood, and laminate, Our Titanium Nitride-coated (TiN) bits resist heat and friction, which extends the life of the cutting edge six times longer than standard step drills. And, our Cobalt step drill bits are engineered with M35 Cobalt steel for maximum life when drilling in the toughest steel, including stainless steel. Most UNIBIT step drills are designed with a SpeedPoint® tip that guarantees fast starts. They're manufactured with a single-flute cutting edge that drills multiple sizes of true, round holes with precise step control. Plus, the hole sizes are permanently laser-etched on the inside of the flute, so they can be easily identified throughout the life of the bit.



UNIBIT Application Guide

Cobalt	Titanium Nitride (TiN)	High Speed Steel (HSS)
Stainless Steel or Other Tough Materials	Repetitive Drilling	General Use

UNIBIT Cobalt HSS



- Engineered with M35 Cobalt steel for maximum life when drilling in tough steel.
- SpeedPoint® tip for fast starts.*

	Descri	ption	Sizes	Shank Size	Item #
A A A A	#1	1/8"-1/2" (1/32" steps)	13	1/4"	10231CB
	#2	3/16"-1/2" (1/16" steps)	6	1/4"	10232CB
	#3	1/4"-3/4" (1/16" steps)	9	3/8"	10233CB
	#4	3/16"-7/8" (1/16" steps)	12	3/8"	10234CB
	#9	7/8" and 1-1/8" for (1/2" and 3/4") KO	2	7/16"	10239CB
	#20	9/16"-1" (1/16") Inc - Hole Enlarging	8	7/16"	10220CB
	#1M	4 mm-12 mm (1 mm steps)	9	1/4"	11101CB
	#2M	4 mm - 12 mm (2 mm steps)	5	1/4"	11102CB
	#3M	6 mm - 18 mm (2 mm steps)	7	3/8"	11103CB
	#4M	4 mm - 22 mm (2 mm steps)	10	3/8"	11104CB

UNIBIT HSS Fractional Titanium Nitride (TiN) Coated



15101ZR

- 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.
- SpeedPoint[®] tip for fast starts.*

Set: 15502

*included on all self-starting sizes except t	for #1
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	Description	on	# of Hole Sizes	Hex Shank Size	Carded Item #
	#1T	1/8" - 1/2" (1/32" steps)	13	1/4"	15101ZR
	#2T	3/16" - 1/2" (1/16" steps)	6	1/4"	15102ZR
	#3T	1/4" - 3/4" (1/16" steps)	9	3/8"	15103ZR
	#4T	3/16" - 7/8" (1/16" steps)	12	3/8"	15104
	#13T	1-1/8" (single hole)	1	7/16"	15313
	#20T	9/16" - 1" (hole enlarging)	8	7/16"	15200
	#21T	13/16" - 1-3/8" (hole enlarging)	10	7/16"	15221

