

ONE-PIECE STEEL HAWG® CUTTERS
OVERVIEW

Make a thinner cut through material and drill holes up to 3X faster with the MILWAUKEE® One-Piece STEEL HAWG® Cutters. These long-lasting cutters feature carbide teeth and an alternating tooth form geometry to cut holes fast in steel, stainless steel and cast iron up to 1/2" thick. Each cutter features a milled 3-Flat Shank designed to fit into 1/2" chucks. The One-Piece STEEL HAWG® Cutter is often used to cut a hole 1/16" larger than a bolt. It can be used with most electromagnetic drill presses and fits most 1/2" chucks.

FEATURES

- Faster Cutting: Alternating tooth form geometry makes fast work of cutting steel
- Long Life: Abrasion-resistant carbide teeth increase cutter life and produce a cleaner cut
- Cleaner Holes: Cut less material for clean, accurate holes
- 1/2" Cutting Depth


ONE-PIECE STEEL HAWG® CUTTERS


Diameter	Description	Part No.
9/16"	One-Piece STEEL HAWG® Cutter	49-57-8064
11/16"	One-Piece STEEL HAWG® Cutter	49-57-8068
13/16"	One-Piece STEEL HAWG® Cutter	49-57-8081

Diameter	Description	Part No.
15/16"	One-Piece STEEL HAWG® Cutter	49-57-8093
1-1/16"	One-Piece STEEL HAWG® Cutter	49-57-8106


COBALT STEP DRILL BITS

Description	Number of Holes	Part No.
#1 Cobalt Step Drill Bit, 1/8" – 1/2"	13	48-89-9281
#4 Cobalt Step Drill Bit, 3/16" – 7/8"	12	48-89-9284
#9 Cobalt Step Drill Bit, 7/8" – 1-1/8"	2	48-89-9289

COBALT STEP DRILL BIT SET
COBALT STEP DRILL BIT SET

Description	Includes	Part No.
 3 PC Cobalt Step Drill Bit Set	(1) #1 Cobalt Step Drill Bit, 1/8" – 1/2" (1) #4 Cobalt Step Drill Bit, 3/16" – 7/8" (1) #9 Cobalt Step Drill Bit, 7/8" – 1-1/8" (1) Carrying Case	48-89-9291

SHOCKWAVE IMPACT DUTY™ STEP DRILL BITS
OVERVIEW

MILWAUKEE's SHOCKWAVE Impact Duty™ Step Drill Bits are engineered to deliver the most durable and fastest impact step bit hole drilling solution. Our step drill bits are made in the USA with global materials and give you best-in-class performance in impact drivers with the versatility to be used in drills. The 1/4" hex shank has an optimized SHOCK ZONE™ body providing you with the industry's most durable shank, reducing early shank breaks. A Titanium Aluminum Nitride (TiAlN) coating helps deliver you 5X longer life, while the step drill bit's RAPID STRIKE™ Tip and dual spiral flute produce 2X faster holes. Our 1/8" – 1/2" step bit features 13 steps with laser engraving for a clear stop on size identification.


FEATURES

- Titanium Aluminum Nitride (TiAlN) coated RAPID STRIKE™ Tip: Provides fast and accurate starts
- Most Durable Shank with an optimized SHOCK ZONE™
- Laser Engraving: Easy size identification


SHOCKWAVE IMPACT DUTY™ STEP DRILL BITS

Description	Number of Holes	Part No.
#1 SHOCKWAVE Impact Duty™ Step Drill Bit, 1/8" – 1/2"	13	48-89-9241
#2 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 1/2"	6	48-89-9242
#3 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 3/4"	10	48-89-9243
#4 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 7/8"	12	48-89-9244
#8 SHOCKWAVE Impact Duty™ Step Drill Bit, 1/2" – 1"	9	48-89-9248
#9 SHOCKWAVE Impact Duty™ Step Drill Bit, 7/8" – 1-1/8"	2	48-89-9249





STEP DRILL BITS
NEW
COBALT STEP DRILL BITS
OVERVIEW

MILWAUKEE® Cobalt Step Drill Bits are engineered to deliver up to 15X the life in stainless compared to current solutions and up to 1,000 holes in mild steel. These Cobalt Step Drill Bits are recommended up to 14ga. Each bit features an elongated dual-flute design that also offers users best heat management. MILWAUKEE's RAPID STRIKE™ Tip allows for 2X faster starts in stainless, while smaller steps provide the smoothest possible drilling experience. Made in the USA with global materials, these step bits have best-in-class performance in cordless drills used on low speed in stainless steel and high speed for mild steel.

FEATURES

- Up to 15X Life in Stainless Steel and Over 1,000 Holes in Mild Steel
- Up to 2X Faster: With RAPID STRIKE™ Tip
- Elongated Dual-flute: Best heat management


STEP DRILL BITS
STEP DRILL BITS
SHOCKWAVE IMPACT DUTY™ STEP DRILL BIT SETS

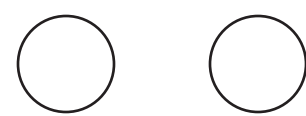
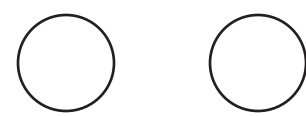
SHOCKWAVE IMPACT DUTY™ STEP DRILL BIT SETS		
Description	Includes	Part No.
 3 PC SHOCKWAVE Impact Duty™ Step Drill Bit Set	(1) #1 SHOCKWAVE Impact Duty™ Step Drill Bit, 1/8" – 1/2" (1) #2 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 1/2" (1) #4 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 7/8" (1) Carrying Case	48-89-9254
 3 PC SHOCKWAVE Impact Duty™ Mechanical Step Drill Bit Set	(1) #2 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 1/2" (1) #3 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 3/4" (1) #8 SHOCKWAVE Impact Duty™ Step Drill Bit, 1/2" – 1" (1) Carrying Case	48-89-9256
 3 PC SHOCKWAVE Impact Duty™ Electrician Step Drill Bit Set	(1) #1 SHOCKWAVE Impact Duty™ Step Drill Bit, 1/8" – 1/2" (1) #4 SHOCKWAVE Impact Duty™ Step Drill Bit, 3/16" – 7/8" (1) #9 SHOCKWAVE Impact Duty™ Step Drill Bit, 7/8" – 1-1/8" (1) Carrying Case	48-89-9257

SHOCKWAVE IMPACT DUTY™ STEP DRILL BITS - METRIC

SHOCKWAVE IMPACT DUTY™ STEP DRILL BITS – METRIC		
Description	Number of Holes	Part No.
Metric SHOCKWAVE Impact Duty™ Step Drill Bit, 4 mm – 12 mm	9	48-89-9261
Metric SHOCKWAVE Impact Duty™ Step Drill Bit, 4 mm – 12 mm	5	48-89-9262
Metric SHOCKWAVE Impact Duty™ Step Drill Bit, 4 mm – 20 mm	9	48-89-9263
Metric SHOCKWAVE Impact Duty™ Step Drill Bit, 4 mm – 30 mm	10	48-89-9265

SHOCKWAVE IMPACT DUTY™ STEP DRILL BIT SET - METRIC

SHOCKWAVE IMPACT DUTY™ STEP DRILL BIT SET – METRIC		
Description	Includes	Part No.
 3 PC SHOCKWAVE Impact Duty™ Metric Step Drill Bit Set	(1) Metric SHOCKWAVE Impact Duty™ Step Bit, 4 mm – 12 mm (1) Metric SHOCKWAVE Impact Duty™ Step Bit, 4 mm – 20 mm (1) Metric SHOCKWAVE Impact Duty™ Step Bit, 4 mm – 30 mm (1) Carrying Case	48-89-9266


JAM-FREE STEP DRILL BITS
OVERVIEW

MILWAUKEE® Step Drill Bits with JAM-FREE Performance feature a dual-flute design delivering up to 2X faster hole times, up to 4X longer life and up to 50% more holes per battery charge than competitors. Ideal for drilling small and large-diameter holes in steel and plastic, these bits are optimized for cordless drills in high speed. The RAPID STRIKE™ Tip allows for a fast and accurate start that generates less heat, resulting in longer bit tip life. Black oxide coating also enhances durability, hole quality, and bit life. For user convenience and accuracy, each bit has laser-engraved reference marks you can see while drilling. The 3-flat SECURE GRIP™ shank ensures a solid connection with the drill chuck. JAM-FREE Performance in high speed with most professional 18-volt cordless drills' lithium-ion battery technology.


FEATURES




- JAM-FREE Performance: Dual-flute design provides greater speed and control
- Up to 2X Faster: Optimized for cordless drills in high speed
- RAPID STRIKE™ Tip: Creates fast, accurate starts and generates less heat

JAM-FREE STEP DRILL BITS




Description	Number of Holes	Part No.
#1 Step Drill Bit, 1/8" – 1/2"	13	48-89-9201
#2 Step Drill Bit, 3/16" – 1/2"	6	48-89-9202
#3 Step Drill Bit, 1/4" – 3/4"	9	48-89-9203
#4 Step Drill Bit, 3/16" – 7/8"	12	48-89-9204
#5 Step Drill Bit, 1/4" – 1-3/8"	10	48-89-9205
#6 Step Drill Bit, 3/8" & 1/2"	2	48-89-9206

Description	Number of Holes	Part No.
#7 Step Drill Bit, 7/8" Single Hole	1	48-89-9207
#8 Step Drill Bit, 1/2" – 1"	9	48-89-9208
#9 Step Drill Bit, 7/8" & 1-1/8"	2	48-89-9209
#11 Step Drill Bit, 7/8" – 1-7/32"	3	48-89-9211
#12 Step Drill Bit, 7/8" – 1-3/8"	5	48-89-9212

JAM-FREE STEP DRILL BIT SETS

JAM-FREE STEP DRILL BIT SETS		
Description	Includes	Part No.
 2 PC #4 Step Drill Bit Set	(2) #4 Step Drill Bits, 3/16" – 7/8"	48-89-9234
 2 PC #9 Step Drill Bit Set	(2) #9 Step Drill Bits, 7/8" & 1-1/8"	48-89-9239
 3 PC Step Drill Bit Set	(1) #1 Step Drill Bit, 1/8" – 1/2" (1) #2 Step Drill Bit, 3/16" – 1/2" (1) #4 Step Drill Bit, 3/16" – 7/8" (1) Carrying Case	48-89-9221

JAM-FREE STEP DRILL BIT SETS


Description	Includes	Part No.
 4 PC Step Drill Bit Set	(1) #1 Step Drill Bit, 1/8" – 1/2" (1) #4 Step Drill Bit, 3/16" – 7/8" (1) #7 Step Drill Bit, 7/8" Single Hole (1) #12 Step Drill Bit, 7/8" – 1-3/8" (1) Carrying Case	48-89-9223
 6 PC Step Drill Bit Set	(1) #1 Step Drill Bit, 1/8" – 1/2" (1) #4 Step Drill Bit, 3/16" – 7/8" (1) #6 Step Drill Bit, 3/8" & 1/2" (1) #7 Step Drill Bit, 7/8" Single Hole (1) #8 Step Drill Bit, 1/2" – 1" (1) #9 Step Drill Bit, 7/8" & 1-1/8" (1) Carrying Case	48-89-9224
 10 PC Step and Drill Bit Set	(1) #1 Step Drill Bit, 1/8" – 1/2" (1) #4 Step Drill Bit, 3/16" – 7/8" (2) 1/16" THUNDERBOLT® Black Oxide Drill Bits (2) 3/32" THUNDERBOLT® Black Oxide Drill Bits (2) 1/8" THUNDERBOLT® Black Oxide Drill Bits (2) 3/16" THUNDERBOLT® Black Oxide Drill Bits (1) Carrying Case	48-89-9222

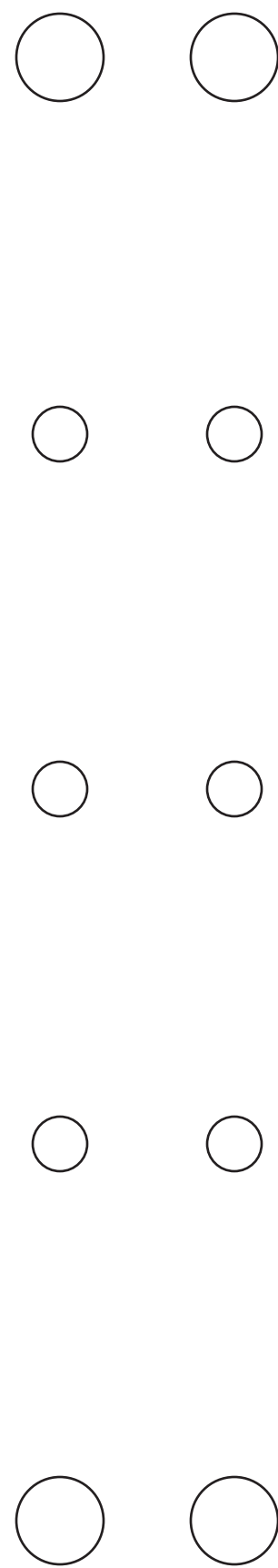
JAM-FREE METRIC STEP DRILL BITS
JAM-FREE METRIC STEP DRILL BITS

Description	Number of Holes	Part No.
Step Drill Bit 4 mm – 12 mm	9	48-89-9301
Step Drill Bit 4 mm – 12 mm	5	48-89-9302
Step Drill Bit 4 mm – 20 mm	9	48-89-9320
Step Drill Bit PG7-PG21 (28 mm)	9	48-89-9321

Description	Number of Holes	Part No.
Step Drill Bit M6-M32 (32.5 mm)	13	48-89-9332
Step Drill Bit 6 mm – 35 mm	14	48-89-9335
Step Drill Bit 6 mm – 40.5 mm	17	48-89-9340

JAM-FREE METRIC STEP DRILL BIT SET

Description	Includes	Part No.
 3 PC Metric Step Drill Bit Set	(1) 4-12mm Step Drill Bit (1) 4-20mm Step Drill Bit (1) 6-35mm Step Drill Bit	48-89-9399


TWIST DRILL BITS
SHOCKWAVE IMPACT DUTY™ RED HELIX™ TITANIUM HEX DRILL BITS
OVERVIEW

SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bits are engineered for use in Impacts and Drill/Drivers. RED HELIX™ Drill Bits feature a QUAD EDGE™ Tip designed with four cutting edges that help decrease heat buildup and allow for faster drilling. These bits also feature an Enhanced Tapered Web, strengthening the bits' cores to increase flute durability, and a Variable Helix flute including an aggressive 35 degree Helix Angle which ends at 15 degrees. Designed to provide precision starts and prevent walking for fast, accurate holes in Wood, PVC and Mild Steel, Shockwave RED HELIX™ Titanium Drill Bits provide up to 5X life vs. Black Oxide Drill Bits. Choose from single drill bit sizes ranging from 1/16" to 1/2" or from several drill bit sets.

FEATURES

- 5X Longer Life vs. Black Oxide Drill Drills
- Ability to drill through wood, PVC, mild steel
- SHOCKWAVE Impact Duty™ Bits: 1/4" Hex Shank for use with an impact driver or drill





SHOCKWAVE
IMPACT DUTY™

SHOCKWAVE IMPACT DUTY™ RED HELIX™ TITANIUM HEX DRILL BITS

Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
1/16"			1/4" Hex	48-89-4601
5/64"			1/4" Hex	48-89-4602
3/32"			1/4" Hex	48-89-4603
7/64"			1/4" Hex	48-89-4604
1/8"	X		1/4" Hex	48-89-4605
9/64"	X		1/4" Hex	48-89-4606
5/32"	X		1/4" Hex	48-89-4607
11/64"	X		1/4" Hex	48-89-4608
3/16"	X	X	1/4" Hex	48-89-4609
13/64"	X	X	1/4" Hex	48-89-4610
7/32"	X	X	1/4" Hex	48-89-4611
15/64"	X	X	1/4" Hex	48-89-4612
1/4"	X	X	1/4" Hex	48-89-4613
17/64"	X	X	1/4" Hex	48-89-4614
9/32"	X	X	1/4" Hex	48-89-4615

Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
19/64"	X	X	1/4" Hex	48-89-4616
5/16"	X	X	1/4" Hex	48-89-4617
21/64"	X	X	1/4" Hex	48-89-4618
11/32"	X	X	1/4" Hex	48-89-4619
23/64"	X	X	1/4" Hex	48-89-4620
3/8"	X	X	1/4" Hex	48-89-4621
25/64"	X	X	1/4" Hex	48-89-4622
13/32"	X	X	1/4" Hex	48-89-4623
27/64"	X	X	1/4" Hex	48-89-4624
7/16"	X	X	1/4" Hex	48-89-4625
29/64"	X	X	1/4" Hex	48-89-4626
15/32"	X	X	1/4" Hex	48-89-4627
31/64"	X	X	1/4" Hex	48-89-4628
1/2"	X	X	1/4" Hex	48-89-4629

SHOCKWAVE IMPACT DUTY™ RED HELIX™ TITANIUM HEX DRILL BIT SETS – METRIC

Description	Includes	Part No.
 19 PC Metric SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bit Set	(1) 2 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 2.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 3 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 3.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 4 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 4.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 10 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™	48-89-4860
 25 PC Metric SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bit Set	(1) 2 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 2.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 3 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 3.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 4 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 4.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 10 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 10.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 11 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 11.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 12 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 12.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 13 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™	48-89-4861
 29 PC Metric SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bit Set	(1) 2 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 2.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 3 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 3.2 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 3.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (2) 4 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 4.2 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 4.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 4.8 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 5.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 6.8 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 7.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 8.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 9.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 10 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 10.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 11 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 11.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 12 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 12.5 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™ (1) 13 mm Metric Titanium SHOCKWAVE Impact Duty™ RED HELIX™	48-89-4862

RED HELIX™ COBALT DRILL BITS
OVERVIEW

RED HELIX™ Cobalt Drill Bits are engineered for extreme durability and longer life in hard metal applications. RED HELIX™ Cobalt Drill Bits feature a QUAD EDGE™ Tip designed with four cutting edges that help decrease heat buildup and allow for faster drilling. These bits also feature an Enhanced Tapered Web, strengthening the bits' cores to increase flute durability, and a Variable Helix flute including an aggressive 35 degree Helix Angle which ends at 15 degrees. Designed to provide precision starts and prevent walking for fast, accurate holes in Wood, PVC, Mild Steel and Stainless Steel, RED HELIX™ Cobalt Drill Bits provide up to 15X life vs. Black Oxide Drill Bits. Choose from single drill bit sizes ranging from 1/16" to 1/2" or from several drill bit sets.

FEATURES

- 15X Longer Life vs. Black Oxide Drill Bits
- Ability to drill through wood, PVC, mild steel and stainless steel
- NEW Features including, QUAD EDGE™ Tip, Enhanced Tapered Web and Variable Helix

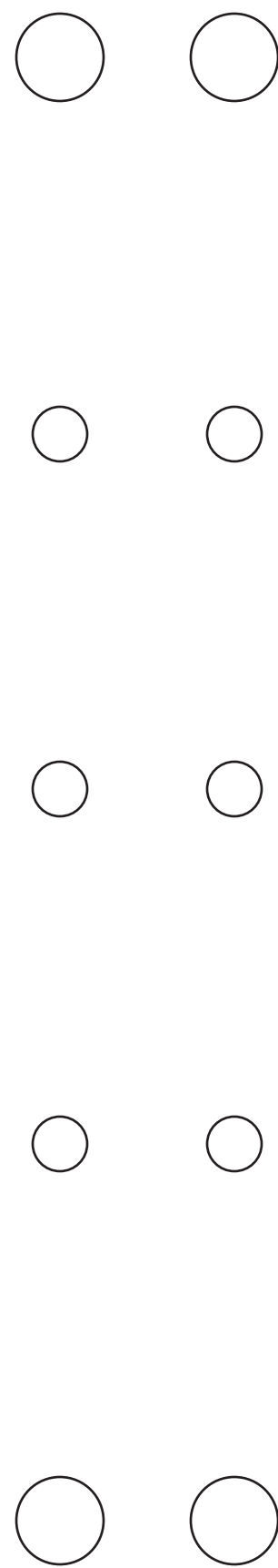

RED HELIX™ COBALT DRILL BITS

Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
1/16"			Round	48-89-2301
5/64"			Round	48-89-2302
3/32"			Round	48-89-2303
7/64"			Round	48-89-2304
1/8"	X		Round	48-89-2305
9/64"	X		Round	48-89-2306
5/32"	X		Round	48-89-2307
11/64"	X		Round	48-89-2308
3/16"	X	X	3-Flat	48-89-2309
13/64"	X	X	3-Flat	48-89-2310
7/32"	X	X	3-Flat	48-89-2311
15/64"	X	X	3-Flat	48-89-2312
1/4"	X	X	3-Flat	48-89-2313
17/64"	X	X	3-Flat	48-89-2314
9/32"	X	X	3-Flat	48-89-2315

Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
19/64"	X	X	3-Flat	48-89-2316
5/16"	X	X	3-Flat	48-89-2317
21/64"	X	X	3-Flat	48-89-2318
11/32"	X	X	3-Flat	48-89-2319
23/64"	X	X	3-Flat	48-89-2320
3/8"	X	X	3-Flat	48-89-2321
25/64"	X	X	3-Flat Reduced 3/8"	48-89-2322
13/32"	X	X	3-Flat Reduced 3/8"	48-89-2323
27/64"	X	X	3-Flat Reduced 3/8"	48-89-2324
7/16"	X	X	3-Flat Reduced 3/8"	48-89-2325
29/64"	X	X	3-Flat Reduced 3/8"	48-89-2326
15/32"	X	X	3-Flat Reduced 3/8"	48-89-2327
31/64"	X	X	3-Flat Reduced 3/8"	48-89-2328
1/2"	X	X	3-Flat Reduced 3/8"	48-89-2329

TWIST DRILL BITS

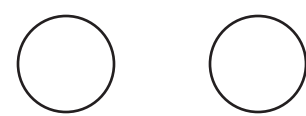
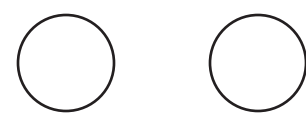
TWIST DRILL BITS




RED HELIX™ COBALT DRILL BITS - METRIC
RED HELIX™ COBALT DRILL BITS – METRIC



Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
1 mm			Round	48-89-2501
1.5 mm			Round	48-89-2502
2 mm			Round	48-89-2503
2.5 mm			Round	48-89-2504
3 mm	X		Round	48-89-2505
3.2 mm	X		Round	48-89-2506
3.5 mm	X		Round	48-89-2507
4 mm	X		Round	48-89-2508
4.2 mm	X		Round	48-89-2509
4.5 mm	X		Round	48-89-2510
4.8 mm	X	X	3-Flat	48-89-2511
5 mm	X	X	3-Flat	48-89-2512
5.5 mm	X	X	3-Flat	48-89-2513
6 mm	X	X	3-Flat	48-89-2514
6.5 mm	X	X	3-Flat	48-89-2515

Diameter	VARIABLE HELIX	QUAD EDGE™	Shank	Part No.
6.8 mm	X	X	3-Flat	48-89-2516
7 mm	X	X	3-Flat	48-89-2517
7.5 mm	X	X	3-Flat	48-89-2518
8 mm	X	X	3-Flat	48-89-2519
8.5 mm	X	X	3-Flat	48-89-2520
9 mm	X	X	3-Flat	48-89-2521
9.5 mm	X	X	3-Flat	48-89-2522
10 mm	X	X	3-Flat	48-89-2523
10.5 mm	X	X	3-Flat Reduced 3/8"	48-89-2524
11 mm	X	X	3-Flat Reduced 3/8"	48-89-2525
11.5 mm	X	X	3-Flat Reduced 3/8"	48-89-2526
12 mm	X	X	3-Flat Reduced 3/8"	48-89-2527
12.5 mm	X	X	3-Flat Reduced 3/8"	48-89-2528
13 mm	X	X	3-Flat Reduced 3/8"	48-89-2529




RED HELIX™ COBALT DRILL BIT SETS

Description	Includes	Part No.	
 <p>29 PC RED HELIX™ Cobalt Drill Bit Set</p>	(1) 1/16" Cobalt RED HELIX™ Drill Bit (1) 5/64" Cobalt RED HELIX™ Drill Bit (1) 3/32" Cobalt RED HELIX™ Drill Bit (1) 7/64" Cobalt RED HELIX™ Drill Bit (1) 1/8" Cobalt RED HELIX™ Drill Bit (1) 9/64" Cobalt RED HELIX™ Drill Bit (1) 5/32" Cobalt RED HELIX™ Drill Bit (1) 11/64" Cobalt RED HELIX™ Drill Bit (1) 3/16" Cobalt RED HELIX™ Drill Bit (1) 13/64" Cobalt RED HELIX™ Drill Bit (1) 7/32" Cobalt RED HELIX™ Drill Bit (1) 15/64" Cobalt RED HELIX™ Drill Bit (1) 1/4" Cobalt RED HELIX™ Drill Bit (1) 17/64" Cobalt RED HELIX™ Drill Bit (1) 9/32" Cobalt RED HELIX™ Drill Bit	(1) 19/64" Cobalt RED HELIX™ Drill Bit (1) 5/16" Cobalt RED HELIX™ Drill Bit (1) 21/64" Cobalt RED HELIX™ Drill Bit (1) 11/32" Cobalt RED HELIX™ Drill Bit (1) 23/64" Cobalt RED HELIX™ Drill Bit (1) 3/8" Cobalt RED HELIX™ Drill Bit (1) 25/64" Cobalt RED HELIX™ Drill Bit (1) 13/32" Cobalt RED HELIX™ Drill Bit (1) 27/64" Cobalt RED HELIX™ Drill Bit (1) 7/16" Cobalt RED HELIX™ Drill Bit (1) 29/64" Cobalt RED HELIX™ Drill Bit (1) 15/32" Cobalt RED HELIX™ Drill Bit (1) 31/64" Cobalt RED HELIX™ Drill Bit (1) 1/2" Cobalt RED HELIX™ Drill Bit	48-89-2332

RED HELIX™ COBALT DRILL BIT SETS - METRIC
RED HELIX™ COBALT DRILL BIT SETS – METRIC

Description	Includes	Part No.	
 <p>19 PC Metric RED HELIX™ Cobalt Drill Bit Set</p>	(1) 1 mm Cobalt RED HELIX™ Drill Bit (1) 1.5 mm Cobalt RED HELIX™ Drill Bit (1) 2 mm Cobalt RED HELIX™ Drill Bit (1) 2.5 mm Cobalt RED HELIX™ Drill Bit (1) 3 mm Cobalt RED HELIX™ Drill Bit (1) 3.5 mm Cobalt RED HELIX™ Drill Bit (1) 4 mm Cobalt RED HELIX™ Drill Bit (1) 4.5 mm Cobalt RED HELIX™ Drill Bit (1) 5 mm Cobalt RED HELIX™ Drill Bit (1) 5.5 mm Cobalt RED HELIX™ Drill Bit	(1) 6 mm Cobalt RED HELIX™ Drill Bit (1) 6.5 mm Cobalt RED HELIX™ Drill Bit (1) 7 mm Cobalt RED HELIX™ Drill Bit (1) 7.5 mm Cobalt RED HELIX™ Drill Bit (1) 8 mm Cobalt RED HELIX™ Drill Bit (1) 8.5 mm Cobalt RED HELIX™ Drill Bit (1) 9 mm Cobalt RED HELIX™ Drill Bit (1) 9.5 mm Cobalt RED HELIX™ Drill Bit (1) 10 mm Cobalt RED HELIX™ Drill Bit	48-89-2530
 <p>25 PC Metric RED HELIX™ Cobalt Drill Bit Set</p>	(1) 1 mm Cobalt RED HELIX™ Drill Bit (1) 1.5 mm Cobalt RED HELIX™ Drill Bit (1) 2 mm Cobalt RED HELIX™ Drill Bit (1) 2.5 mm Cobalt RED HELIX™ Drill Bit (1) 3 mm Cobalt RED HELIX™ Drill Bit (1) 3.5 mm Cobalt RED HELIX™ Drill Bit (1) 4 mm Cobalt RED HELIX™ Drill Bit (1) 4.5 mm Cobalt RED HELIX™ Drill Bit (1) 5 mm Cobalt RED HELIX™ Drill Bit (1) 5.5 mm Cobalt RED HELIX™ Drill Bit (1) 6 mm Cobalt RED HELIX™ Drill Bit (1) 6.5 mm Cobalt RED HELIX™ Drill Bit (1) 7 mm Cobalt RED HELIX™ Drill Bit	(1) 7.5 mm Cobalt RED HELIX™ Drill Bit (1) 8 mm Cobalt RED HELIX™ Drill Bit (1) 8.5 mm Cobalt RED HELIX™ Drill Bit (1) 9 mm Cobalt RED HELIX™ Drill Bit (1) 9.5 mm Cobalt RED HELIX™ Drill Bit (1) 10 mm Cobalt RED HELIX™ Drill Bit (1) 10.5 mm Cobalt RED HELIX™ Drill Bit (1) 11 mm Cobalt RED HELIX™ Drill Bit (1) 11.5 mm Cobalt RED HELIX™ Drill Bit (1) 12 mm Cobalt RED HELIX™ Drill Bit (1) 12.5 mm Cobalt RED HELIX™ Drill Bit (1) 13 mm Cobalt RED HELIX™ Drill Bit	48-89-2531

RED HELIX™ COBALT DRILL BIT SETS
RED HELIX™ COBALT DRILL BIT SETS

Description	Includes	Part No.	
 <p>15 PC RED HELIX™ Cobalt Drill Bit Set</p>	(2) 1/16" Cobalt RED HELIX™ Drill Bits (1) 5/64" Cobalt RED HELIX™ Drill Bit (1) 3/32" Cobalt RED HELIX™ Drill Bit (1) 7/64" Cobalt RED HELIX™ Drill Bit (2) 1/8" Cobalt RED HELIX™ Drill Bits (1) 9/64" Cobalt RED HELIX™ Drill Bit	(1) 5/32" Cobalt RED HELIX™ Drill Bit (1) 3/16" Cobalt RED HELIX™ Drill Bit (1) 7/32" Cobalt RED HELIX™ Drill Bit (2) 1/4" Cobalt RED HELIX™ Drill Bits (1) 5/16" Cobalt RED HELIX™ Drill Bit (1) 3/8" Cobalt RED HELIX™ Drill Bit	48-89-2331
 <p>23 PC RED HELIX™ Cobalt Drill Bit Set</p>	(2) 1/16" Cobalt RED HELIX™ Drill Bits (2) 5/64" Cobalt RED HELIX™ Drill Bits (1) 3/32" Cobalt RED HELIX™ Drill Bit (2) 7/64" Cobalt RED HELIX™ Drill Bits (2) 1/8" Cobalt RED HELIX™ Drill Bits (2) 9/64" Cobalt RED HELIX™ Drill Bits (2) 5/32" Cobalt RED HELIX™ Drill Bits (1) 11/64" Cobalt RED HELIX™ Drill Bit	(2) 3/16" Cobalt RED HELIX™ Drill Bits (1) 13/64" Cobalt RED HELIX™ Drill Bit (1) 7/32" Cobalt RED HELIX™ Drill Bit (1) 15/64" Cobalt RED HELIX™ Drill Bit (2) 1/4" Cobalt RED HELIX™ Drill Bits (1) 5/16" Cobalt RED HELIX™ Drill Bit (1) 3/8" Cobalt RED HELIX™ Drill Bit	48-89-2338

TWIST DRILL BITS

THUNDERBOLT® TITANIUM-COATED DRILL BITS
OVERVIEW

MILWAUKEE® THUNDERBOLT® Titanium-Coated Drill Bits are designed for extreme durability and up to 3X longer life. The THUNDERBOLT® web features a thicker core than a standard drill bit to provide ultimate strength and protect against side-load breakage. The titanium coating reduces heat buildup and keeps the bit sharp to extend performance. A specially-designed parabolic flute form clears chips and debris fast to keep the bit cool. The 135° split point tip delivers a precision start and prevents walking for fast, accurate holes. Effective for drilling on curved surfaces, THUNDERBOLT® Titanium-Coated Bits require less effort to drill through wood, metal and PVC, and are highly recommended for use with portable drills.

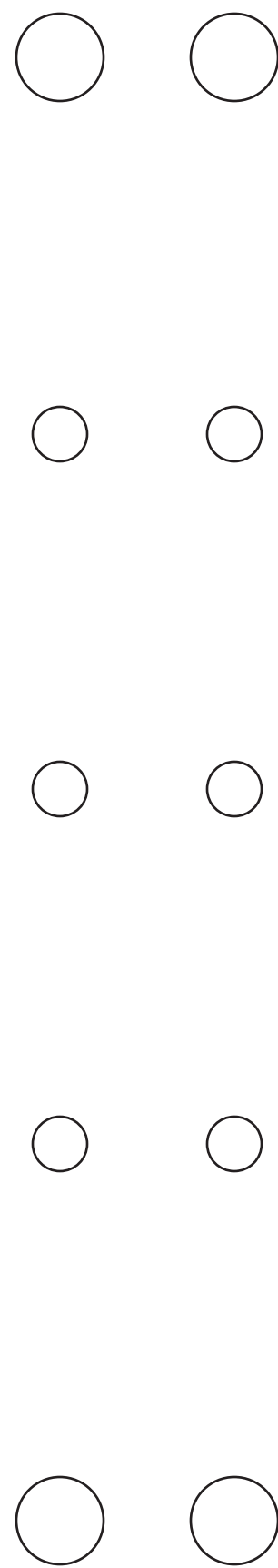
FEATURES




- 3X Longer Life
- Thicker Web: Provides greater strength
- Fast, Accurate Drilling: 135° split point tip starts on contact to prevent walking, while the parabolic flute clears chips fast


THUNDERBOLT® TITANIUM-COATED DRILL BITS

Diameter	Shank	Part No.
1/16"	Round	48-89-2201
5/64"	Round	48-89-2202
3/32"	Round	48-89-2203
7/64"	Round	48-89-2204
1/8"	Round	48-89-2205
9/64"	Round	48-89-2206
5/32"	Round	48-89-2207
11/64"	Round	48-89-2208
3/16"	3-Flat	48-89-2209
13/64"	3-Flat	48-89-2210
7/32"	3-Flat	48-89-2211
15/64"	3-Flat	48-89-2212
1/4"	3-Flat	48-89-2213
17/64"	3-Flat	48-89-2214
9/32"	3-Flat	48-89-2215

Diameter	Shank	Part No.
19/64"	3-Flat	48-89-2216
5/16"	3-Flat	48-89-2217
21/64"	3-Flat	48-89-2218
11/32"	3-Flat	48-89-2219
23/64"	3-Flat	48-89-2220
3/8"	3-Flat	48-89-2221
25/64"	3-Flat Reduced 3/8"	48-89-2222
13/32"	3-Flat Reduced 3/8"	48-89-2223
27/64"	3-Flat Reduced 3/8"	48-89-2224
7/16"	3-Flat Reduced 3/8"	48-89-2225
29/64"	3-Flat Reduced 3/8"	48-89-2226
15/32"	3-Flat Reduced 3/8"	48-89-2227
31/64"	3-Flat Reduced 3/8"	48-89-2228
1/2"	3-Flat Reduced 3/8"	48-89-2229


THUNDERBOLT® TITANIUM-COATED DRILL BIT SETS
THUNDERBOLT® TITANIUM-COATED DRILL BIT SETS

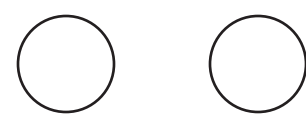
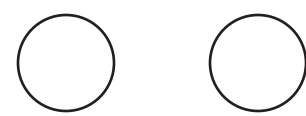
Description	Includes	Part No.
 14 PC THUNDERBOLT® Titanium-Coated Drill Bit Set	(1) 1/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/64" THUNDERBOLT® Titanium-Coated Drill Bit (2) 1/8" THUNDERBOLT® Titanium-Coated Drill Bits (1) 9/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/4" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/8" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/2" THUNDERBOLT® Titanium-Coated Drill Bit	48-89-0011
 20 PC THUNDERBOLT® Titanium-Coated Drill Bit Set	(2) 1/16" THUNDERBOLT® Titanium-Coated Drill Bits (2) 5/64" THUNDERBOLT® Titanium-Coated Drill Bits (2) 3/32" THUNDERBOLT® Titanium-Coated Drill Bits (2) 7/64" THUNDERBOLT® Titanium-Coated Drill Bits (2) 1/8" THUNDERBOLT® Titanium-Coated Drill Bits (1) 9/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 11/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 13/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/4" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/8" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/2" THUNDERBOLT® Titanium-Coated Drill Bit	48-89-1105
 29 PC THUNDERBOLT® Titanium-Coated Drill Bit Set	(1) 1/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/8" THUNDERBOLT® Titanium-Coated Drill Bit (1) 9/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 11/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 13/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 15/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/4" THUNDERBOLT® Titanium-Coated Drill Bit (1) 17/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 9/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 19/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 5/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 21/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 11/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 23/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 3/8" THUNDERBOLT® Titanium-Coated Drill Bit (1) 25/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 13/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 27/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 7/16" THUNDERBOLT® Titanium-Coated Drill Bit (1) 29/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 15/32" THUNDERBOLT® Titanium-Coated Drill Bit (1) 31/64" THUNDERBOLT® Titanium-Coated Drill Bit (1) 1/2" THUNDERBOLT® Titanium-Coated Drill Bit	48-89-0012

THUNDERBOLT® BLACK OXIDE DRILL BITS
OVERVIEW

MILWAUKEE® THUNDERBOLT® Black Oxide Jobber-Length Drill Bits are designed for extreme durability and long life. The THUNDERBOLT® web features a thicker core than a standard drill bit to provide ultimate strength and protect against side-load breakage. A specially-designed parabolic flute form clears chips and debris fast to keep the bit cool. The 135° split point tip delivers a precision start and prevents walking for fast, accurate holes. Effective for drilling on curved surfaces, THUNDERBOLT® Black Oxide Bits require less effort to drill through metal, wood and PVC, and are highly recommended for use with portable drills.

FEATURES

- Thicker Web: Provides greater strength and longer life
- Fast, Accurate Drilling: 135° split point tip starts on contact to prevent walking, while the parabolic flute clears chips fast
- Corrosion Resistant: Black oxide coating provides lubricity and resists corrosion of the bit




THUNDERBOLT® BLACK OXIDE DRILL BITS

Diameter	Shank	1 Pack	12 Pack	6 Pack
1/16"	Round	48-89-2710	48-89-2820	-
5/64"	Round	48-89-2711	48-89-2821	-
3/32"	Round	48-89-2712	48-89-2822	-
7/64"	Round	48-89-2713	48-89-2823	-
1/8"	Round	48-89-2714	48-89-2824	-
9/64"	Round	48-89-2715	48-89-2825	-
5/32"	Round	48-89-2716	48-89-2826	-
11/64"	Round	48-89-2717	48-89-2827	-
3/16"	Round	48-89-2718	48-89-2828	-
13/64"	3-Flat	48-89-2719	48-89-2829	-
7/32"	3-Flat	48-89-2720	48-89-2830	-
15/64"	3-Flat	48-89-2721	48-89-2831	-
1/4"	3-Flat	48-89-2722	48-89-2832	-
7/64"	3-Flat	48-89-2723	-	48-89-2833
9/32"	3-Flat	48-89-2724	-	48-89-2834
9/64"	3-Flat	48-89-2725	-	48-89-2835
5/16"	3-Flat	48-89-2726	-	48-89-2836
21/64"	3-Flat	48-89-2727	-	48-89-2837
11/32"	3-Flat	48-89-2728	-	48-89-2838


THUNDERBOLT® BLACK OXIDE DRILL BITS

Diameter	Shank	1 Pack	12 Pack	6 Pack
23/64"	3-Flat	48-89-2729	-	48-89-2839
3/8"	3-Flat	48-89-2730	-	48-89-2840
25/64"	3/8" Reduced 3-Flat	48-89-2731	-	48-89-2841
27/64"	3/8" Reduced 3-Flat	48-89-2733	-	48-89-2843
7/16"	3/8" Reduced 3-Flat	48-89-2734	-	48-89-2844
29/64"	3/8" Reduced 3-Flat	48-89-2735	-	48-89-2845
15/32"	3/8" Reduced 3-Flat	48-89-2736	-	48-89-2846
13/32"	3/8" Reduced 3-Flat	48-89-2732	-	48-89-2842
31/64"	3/8" Reduced 3-Flat	48-89-2737	-	48-89-2847
1/2"	3/8" Reduced 3-Flat	48-89-2738	-	48-89-2848

THUNDERBOLT® BLACK OXIDE DRILL BIT SETS
THUNDERBOLT® BLACK OXIDE DRILL BIT SETS

Description	Includes	Part No.
 <p>15 PC THUNDERBOLT® Black Oxide Drill Bit Set</p>	(1) 1/16" THUNDERBOLT® Black Oxide Drill Bit (1) 11/64" THUNDERBOLT® Black Oxide Drill Bit (1) 13/64" THUNDERBOLT® Black Oxide Drill Bit (1) 1/4" THUNDERBOLT® Black Oxide Drill Bit (1) 1/8" THUNDERBOLT® Black Oxide Drill Bit (1) 3/16" THUNDERBOLT® Black Oxide Drill Bit (1) 3/32" THUNDERBOLT® Black Oxide Drill Bit (1) 3/8" THUNDERBOLT® Black Oxide Drill Bit (1) 5/16" THUNDERBOLT® Black Oxide Drill Bit (1) 5/32" THUNDERBOLT® Black Oxide Drill Bit (1) 5/64" THUNDERBOLT® Black Oxide Drill Bit (1) 7/32" THUNDERBOLT® Black Oxide Drill Bit (1) 7/64" THUNDERBOLT® Black Oxide Drill Bit (1) 9/32" THUNDERBOLT® Black Oxide Drill Bit (1) 9/64" THUNDERBOLT® Black Oxide Drill Bit	48-89-2803
 <p>21 PC THUNDERBOLT® Black Oxide Drill Bit Set</p>	(2) 1/16" THUNDERBOLT® Black Oxide Drill Bits (1) 11/64" THUNDERBOLT® Black Oxide Drill Bit (1) 1/2" THUNDERBOLT® Black Oxide Drill Bit (1) 13/64" THUNDERBOLT® Black Oxide Drill Bit (2) 1/4" THUNDERBOLT® Black Oxide Drill Bits (1) 15/64" THUNDERBOLT® Black Oxide Drill Bit (2) 1/8" THUNDERBOLT® Black Oxide Drill Bits (2) 3/16" THUNDERBOLT® Black Oxide Drill Bits (1) 3/32" THUNDERBOLT® Black Oxide Drill Bit (1) 3/8" THUNDERBOLT® Black Oxide Drill Bit (1) 5/16" THUNDERBOLT® Black Oxide Drill Bit (1) 5/32" THUNDERBOLT® Black Oxide Drill Bit (2) 5/64" THUNDERBOLT® Black Oxide Drill Bits (1) 7/32" THUNDERBOLT® Black Oxide Drill Bit (1) 7/64" THUNDERBOLT® Black Oxide Drill Bit (1) 9/64" THUNDERBOLT® Black Oxide Drill Bit	48-89-2801

TWIST DRILL BITS
THUNDERBOLT® BLACK OXIDE DRILL BIT SETS

Description	Includes	Part No.
 29 PC THUNDERBOLT® Black Oxide Drill Bit Set	(1) 11/32" THUNDERBOLT® Black Oxide Drill Bit (1) 1/16" THUNDERBOLT® Black Oxide Drill Bit (1) 11/64" THUNDERBOLT® Black Oxide Drill Bit (1) 1/2" THUNDERBOLT® Black Oxide Drill Bit (1) 13/32" THUNDERBOLT® Black Oxide Drill Bit (1) 13/64" THUNDERBOLT® Black Oxide Drill Bit (1) 1/4" THUNDERBOLT® Black Oxide Drill Bit (1) 15/32" THUNDERBOLT® Black Oxide Drill Bit (1) 15/64" THUNDERBOLT® Black Oxide Drill Bit (1) 17/64" THUNDERBOLT® Black Oxide Drill Bit (1) 1/8" THUNDERBOLT® Black Oxide Drill Bit (1) 19/64" THUNDERBOLT® Black Oxide Drill Bit (1) 21/64" THUNDERBOLT® Black Oxide Drill Bit (1) 23/64" THUNDERBOLT® Black Oxide Drill Bit (1) 25/64" THUNDERBOLT® Black Oxide Drill Bit (1) 27/64" THUNDERBOLT® Black Oxide Drill Bit (1) 29/64" THUNDERBOLT® Black Oxide Drill Bit (1) 3/16" THUNDERBOLT® Black Oxide Drill Bit (1) 31/64" THUNDERBOLT® Black Oxide Drill Bit (1) 3/32" THUNDERBOLT® Black Oxide Drill Bit (1) 3/8" THUNDERBOLT® Black Oxide Drill Bit (1) 5/16" THUNDERBOLT® Black Oxide Drill Bit (1) 5/32" THUNDERBOLT® Black Oxide Drill Bit (1) 5/64" THUNDERBOLT® Black Oxide Drill Bit (1) 7/16" THUNDERBOLT® Black Oxide Drill Bit (1) 7/32" THUNDERBOLT® Black Oxide Drill Bit (1) 7/64" THUNDERBOLT® Black Oxide Drill Bit (1) 9/32" THUNDERBOLT® Black Oxide Drill Bit (1) 9/64" THUNDERBOLT® Black Oxide Drill Bit	48-89-2802

S & D TITANIUM DRILL BITS
OVERVIEW

MILWAUKEE® Titanium Silver and Deming Drill Bits are engineered for all jobsite drilling applications. Designed with a 1/2" SECURE GRIP™ shank to prevent chuck slippage and 135° split point tip for no walking, which delivers increased accuracy.

FEATURES

- 135° Split Point Tip: Precision start, no walking
- Titanium Coating: Increased durability
- SECURE GRIP™: Prevents bit from slipping in chuck


S & D TITANIUM DRILL BITS

Diameter	Shank	Part No.
3/4"	3-Flat (1/2")	48-89-4640
5/8"	3-Flat (1/2")	48-89-4636
9/16"	3-Flat (1/2")	48-89-4634

S & D BLACK OXIDE DRILL BITS
OVERVIEW

MILWAUKEE® Silver and Deming Black Oxide Drill Bits are designed for extreme durability and long life. A specially-designed parabolic flute form clears chips fast, while the 3-Flat SECURE GRIP™ shank holds the bit firmly in the drill chuck. The 135° split point tip delivers a precision start and prevents walking for fast, accurate holes. Effective for drilling on curved surfaces, MILWAUKEE® Black Oxide Bits require less effort to drill through metal, wood and PVC, and are highly recommended for use with portable drills.

FEATURES

- Fast, Accurate Drilling: 135° split point tip starts on contact to prevent walking, while the parabolic flute clears chips fast
- Reduced Slipping: 3-Flat SECURE GRIP™ shank holds the bit firmly in the drill chuck
- Corrosion Resistant: Black oxide coating provides lubricity and resists corrosion of the bit


TWIST DRILL BITS
S & D BLACK OXIDE DRILL BITS

Diameter	Shank	Part No.
17/32"	3-Flat (1/2")	48-89-2739
9/16"	3-Flat (1/2")	48-89-2740
19/32"	3-Flat (1/2")	48-89-2741
5/8"	3-Flat (1/2")	48-89-2742
21/32"	3-Flat (1/2")	48-89-2743
11/16"	3-Flat (1/2")	48-89-2744
23/32"	3-Flat (1/2")	48-89-2745
3/4"	3-Flat (1/2")	48-89-2746
25/32"	3-Flat (1/2")	48-89-2747
13/16"	3-Flat (1/2")	48-89-2748

Diameter	Shank	Part No.
27/32"	3-Flat (1/2")	48-89-2749
7/8"	3-Flat (1/2")	48-89-2750
15/16"	3-Flat (1/2")	48-89-2752
31/32"	3-Flat (1/2")	48-89-2753
29/32"	3-Flat (1/2")	48-89-2751
1"	3-Flat (1/2")	48-89-2754
1-1/16"	3-Flat (1/2")	48-89-2755
1-1/8"	3-Flat (1/2")	48-89-2756
1-3/16"	3-Flat (1/2")	48-89-2757
1-1/4"	3-Flat (1/2")	48-89-2758

AIRCRAFT LENGTH BLACK OXIDE DRILL BITS

OVERVIEW

MILWAUKEE® Aircraft Length Black Oxide Drill Bits are ideal for extra reach and deep drilling applications in metal, wood and PVC. The 135° split point tip delivers a precision start and prevents walking for fast, accurate holes.

FEATURES

- Fast, Accurate Drilling: 135° split point tip starts on contact to prevent walking
- Reduced Slipping: 3-Flat SECURE GRIP™ shank holds the bit firmly in the drill chuck
- 12 inch Length for hard to reach areas

AIRCRAFT LENGTH BLACK OXIDE DRILL BITS

Diameter	Shank	Part No.
1/8"	3-Flat	48-89-2770
3/16"	3-Flat	48-89-2771
1/4"	3-Flat	48-89-2772
5/16"	3-Flat	48-89-2773

Diameter	Shank	Part No.
3/8"	3-Flat	48-89-2774
7/16"	3-Flat	48-89-2775
1/2"	3-Flat	48-89-2776

SHOCKWAVE IMPACT DUTY™ DRILL TAPS
OVERVIEW

MILWAUKEE® SHOCKWAVE Impact Duty™ Drill Taps combine drilling and tapping applications in metal materials up to 1/4". Designed for use in Impacts or Drill/Drivers, each bit features laser-etched sizing for easy identification.

FEATURES

- Features a countersink
- Laser-etched Size: Easy size identification
- 1/4" Quick Change Hex Shank





SHOCKWAVE
IMPACT DUTY™

SHOCKWAVE IMPACT DUTY™ DRILL TAPS

Description	Part No.
8-32 UNC Impact Drill Tap	48-89-4870
5/16-18 UNC Impact Drill Tap	48-89-4871
10-24 UNC Impact Drill Tap	48-89-4872
1/4-20 UNC Impact Drill Tap	48-89-4873

SHOCKWAVE IMPACT DUTY™ DRILL TAP SETS

Description	Includes	Part No.
 5 PC SHOCKWAVE Impact Duty™ SAE Drill Tap Set	(1) 8 – 32 UNC (1) 10 – 24 UNC (1) 10 – 32 UNF (1) 12 – 24 UNC (1) 1/4 – 20 UNC	48-89-4874
 5 PC SHOCKWAVE Impact Duty™ Metric Drill Tap Set	(1) M4 (1) M5 (1) M6 (1) M8 (1) M10	48-89-4875

NEW
SHOCKWAVE IMPACT DUTY™ LINEMAN'S FIBERGLASS DRILL BITS
OVERVIEW

The SHOCKWAVE Impact Duty™ Lineman's Fiberglass Drill Bits are engineered for fiberglass and composite power utility arms and poles. Our carbide tip design allows linemen to make faster cuts while maintaining best life. They are available in 12" and 22" lengths. These length assortments can pass through power utility poles and arms in a single pass, which eliminates the need to flip over the pole, line up the holes and drill through the other side. The 7/16" hex shank allows for quick connection. Pair this accessory with our 2865-20 for ultimate performance in Fiberglass/Composite poles and arms.

FEATURES

- Engineered for Fiberglass and Composite power utility arms and poles
- Best Life in fiberglass and composite with our Carbide Tip design
- Optimized Bit Length: Straight through holes



SHOCKWAVE
IMPACT DUTY™

SHOCKWAVE IMPACT DUTY™ LINEMAN'S FIBERGLASS DRILL BITS

Description	Part No.
9/16" SHOCKWAVE Impact Duty™ Lineman's 12" Fiberglass Drill Bit	48-13-7703
11/16" SHOCKWAVE Impact Duty™ Lineman's 12" Fiberglass Drill Bit	48-13-7705
13/16" SHOCKWAVE Impact Duty™ Lineman's 12" Fiberglass Drill Bit	48-13-7707
15/16" SHOCKWAVE Impact Duty™ Lineman's 12" Fiberglass Drill Bit	48-13-7709
11/16" SHOCKWAVE Impact Duty™ Lineman's 22" Fiberglass Drill Bit	48-13-7805
13/16" SHOCKWAVE Impact Duty™ Lineman's 22" Fiberglass Drill Bit	48-13-7807
15/16" SHOCKWAVE Impact Duty™ Lineman's 22" Fiberglass Drill Bit	48-13-7809

TWIST DRILL BITS