



Nothing but **HEAVY DUTY**®

**THUNDERBOLT® BLACK OXIDE DRILL BIT SETS**



14 Pc THUNDERBOLT® Black Oxide Drill Bit Set 48-89-2800	15 Pc THUNDERBOLT® Black Oxide Drill Bit Set 48-89-2803	21 Pc THUNDERBOLT® Black Oxide Drill Bit Set 48-89-2801	29 Pc THUNDERBOLT® Black Oxide Drill Bit Set 48-89-2802
<p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>1/16", 5/64", 3/32", 7/64", (2) 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 1/2"</li> </ul>	<p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 1/4", 9/32", 5/16", 3/8"</li> </ul>	<p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>(2) 1/16", (2) 5/64", 3/32", 7/64", (2) 1/8", 9/64", 5/32", 11/64", (2) 3/16", 13/64", 7/32", 15/64", (2) 1/4", 5/16", 3/8", 1/2"</li> </ul>	<p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"</li> </ul>

**BLACK OXIDE S&D DRILL BITS**



Size	Part Number	Qty/Card
17/32"	48-88-2739	1
9/16"	48-89-2740	1
19/32"	48-89-2741	1
5/8"	48-89-2742	1
21/32"	48-89-2743	1
11/16"	48-89-2744	1
23/32"	48-89-2745	1
3/4"	48-89-2746	1
25/32"	48-89-2747	1
13/16"	48-89-2748	1
27/32"	48-89-2749	1
7/8"	48-89-2750	1
29/32"	48-89-2751	1
15/16"	48-89-2752	1
31/32"	48-89-2753	1
1"	48-89-2754	1
1-1/16"	48-89-2755	1
1-1/8"	48-89-2756	1
1-3/16"	48-89-2757	1
1-1/4"	48-89-2758	1

**BLACK OXIDE 12" AIRCRAFT LENGTH BITS**



Size	Part Number	Qty/Card
1/8"	48-89-2770	1
3/16"	48-89-2771	1
1/4"	48-89-2772	1
5/16"	48-89-2773	1
3/8"	48-89-2774	1
7/16"	48-89-2775	1
1/2"	48-89-2776	1

**SHOCKWAVE IMPACT DUTY™ HEX SHANK DRILL BITS**



- LONG LIFE**
- THUNDERBOLT® drill bits are designed with a thicker web, providing greater strength and longer life
- EFFICIENT CHIP REMOVAL**
- Parabolic flute clears chips fast
- PRECISION STARTS, NO WALKING**
- 135° split point geometry starts fast, on contact
- QUICK CHANGE**
- 1/4" Hex power groove shank

Size	Part Number	Qty/Card
1/16"	48-89-4401	1
3/32"	48-89-4403	1
1/8"	48-89-4405	1
5/32"	48-89-4407	1
3/16"	48-89-4409	1
7/32"	48-89-4411	1
1/4"	48-89-4413	1

**SHOCKWAVE IMPACT DUTY™ HEX SHANK DRILL BIT SET**



**SHOCKWAVE**  
IMPACT DUTY



7 Pc Impact Duty Hex Shank Drill Bit Set 48-89-4431
<p><b>Includes:</b></p> <ul style="list-style-type: none"> <li>1/16", 3/32", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4",</li> </ul>



Nothing but **HEAVY DUTY.**

## THUNDERBOLT® TITANIUM DRILL BITS

### LONG LIFE

- Titanium coating reduces heat build-up for up to 3X life

### EFFICIENT CHIP REMOVAL

- Parabolic flute clears chips fast

### PRECISION STARTS, NO WALKING

- 135° split point geometry starts fast, on contact

### CORROSION RESISTANT

- Titanium coating provides added protection from heat build-up

### NO SPIN SECURE-GRIP™

- 3-Flat shank holds bit secure in drill chuck



Size	Part Number	Qty/Card
1/16"	48-89-2201	2
5/64"	48-89-2202	2
3/32"	48-89-2203	2
7/64"	48-89-2204	2
1/8"	48-89-2205	2
9/64"	48-89-2206	1
5/32"	48-89-2207	1
11/64"	48-89-2208	1
3/16"	48-89-2209	1
13/64"	48-89-2210	1
7/32"	48-89-2211	1
1/4"	48-89-2213	1
17/64"	48-89-2214	1
5/16"	48-89-2217	1
21/64"	48-89-2218	1
11/32"	48-89-2219	1
3/8"	48-89-2221	1
13/32"	48-89-2223	1
7/16"	48-89-2225	1
1/2"	48-89-2229	1

## THUNDERBOLT® TITANIUM DRILL BIT SETS



14 Pc THUNDERBOLT® Titanium Drill Bit Set 48-89-0011	20 Pc Titanium Drill Bit Set 48-89-1105	29 Pc THUNDERBOLT® Titanium Drill Bit Set 48-89-0012
<b>Includes:</b> <ul style="list-style-type: none"> <li>▪ 1/16", 5/64", 3/32", 7/64", (2) 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 1/2"</li> </ul>	<b>Includes:</b> <ul style="list-style-type: none"> <li>▪ (2) 1/16", (2) 5/64", (2) 3/32", (2) 7/64", (2) 1/8", 9/64", 5/32", 11/64, 3/16", 13/64", 7/32", 1/4", 5/16", 3/8", 1/2"</li> </ul>	<b>Includes:</b> <ul style="list-style-type: none"> <li>▪ 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 11/64", 3/16", 13/64", 7/32", 15/64", 1/4", 17/64", 9/32", 19/64", 5/16", 21/64", 11/32", 23/64", 3/8", 25/64", 13/32", 27/64", 7/16", 29/64", 15/32", 31/64", 1/2"</li> </ul>

## THUNDERBOLT® COBALT DRILL BITS

### LONG LIFE

- THUNDERBOLT® drill bits are designed with a thicker web, providing greater strength and longer life

### EFFICIENT CHIP REMOVAL

- Parabolic flute clears chips fast

### PRECISION STARTS, NO WALKING

### NO SPIN SECURE-GRIP™

- 3-Flat Shank holds bit secure



## THUNDERBOLT® COBALT DRILL BIT SET



Size	Part Number	Qty/Card
3/32"	48-89-2303	1
7/64"	48-89-2304	1
1/8"	48-89-2305	1
9/64"	48-89-2306	1
5/32"	48-89-2307	1
3/16"	48-89-2309	1
1/4"	48-89-2313	1
5/16"	48-89-2317	1
3/8"	48-89-2321	1
7/16"	48-89-2325	1
1/2"	48-89-2329	1

14 Pc THUNDERBOLT® Cobalt Drill Bit Set 48-89-0026
<b>Includes:</b> <ul style="list-style-type: none"> <li>▪ 1/16", 5/64", 3/32", 7/64", (2) 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8", 1/2"</li> </ul>

DRILLING ACCESSORIES

## STEP DRILL BITS

### TRUE ROUND HOLES

- Single flute produces perfectly round holes

### NO SPIN SECURE-GRIP

- 3-Flat shank holds bit secure in drill chuck

### EASY SIZE IDENTIFICATION

- Laser etched markings ensure fast size identification and won't wear off



Size	Part Number	Qty/Card	Description
<b>MET-2</b>	48-89-8955	1	6 Hole, 3/16" - 1/2" (1/16") Step Drill Bit
<b>MET-5</b>	48-89-8960	1	10 Hole, 1/4" - 1-3/8" (1/8") Step Drill Bit
<b>MET-21</b>	48-89-8965	1	10 Hole, 13/16" - 1-3/8" (1/16") Step Drill Bit, Hole Enlarging
<b>MET-1</b>	48-89-9100	1	13 Hole, 1/8" - 1/2" (1/32") Step Drill Bit
<b>MET-3</b>	48-89-9105	1	9 Hole, 1/4" - 3/4" (1/16") Step Drill Bit
<b>MET-20</b>	48-89-9110	1	8 Hole, 9/16" - 1" (1/16") Step Drill Bit, Hole Enlarging
<b>MET-11</b>	48-89-9115	1	Single Hole Size, 7/8" Step Drill Bit
<b>MET-4</b>	48-89-9130	1	12 Hole, 3/16" - 7/8" (1/16") Step Drill Bit
<b>MET-9</b>	48-89-9135	1	2 Hole 7/8" and 1-1/8" Step Drill Bit (1/2" and 3/4" Knock-Out)

## STEP DRILL BIT SETS



2 Pc Set 48-89-9050	3 Pc Set 48-89-8990
<ul style="list-style-type: none"> <li>2 piece set - 13 hole and 9 hole step drill bits</li> </ul>	<ul style="list-style-type: none"> <li>3 piece set - 13 hole, 6 hole, 9 hole step drill bits</li> </ul>
<b>Includes:</b> <ul style="list-style-type: none"> <li>MET-1, MET-3, soft case</li> </ul>	<b>Includes:</b> <ul style="list-style-type: none"> <li>MET-1, MET-2, MET-3, soft case</li> </ul>

## ANNULAR CUTTERS



### FASTER CUTTING

- Thinner wall design for faster, more efficient cutting

### LONG LIFE

- Proprietary steel, optimized for steel cutting

### UNIVERSAL SHANK

- Fits directly into Milwaukee® compact magnetic drill press
- Works with 3/4" Weldon® style shank arbor

Size	1" Depth	2" Depth	Size	1" Depth	2" Depth
<b>1/2"</b>	49-59-0500	49-59-2050	<b>1-5/16"</b>	49-59-1312	49-59-2131
<b>9/16"</b>	49-59-0562	49-59-2056	<b>1-3/8"</b>	49-59-1375	49-59-2138
<b>5/8"</b>	49-59-0625	49-59-2063	<b>1-7/16"</b>	49-59-1437	49-59-2144
<b>11/16"</b>	49-59-0687	49-59-2069	<b>1-1/2"</b>	49-59-1500	49-59-2150
<b>3/4"</b>	49-59-0750	49-59-2075	<b>1-9/16"</b>	49-59-1562	49-59-2156
<b>13/16"</b>	49-59-0812	49-59-2081	<b>1-5/8"</b>	49-59-1625	49-59-2163
<b>7/8"</b>	49-59-0875	49-59-2089	<b>1-11/16"</b>	49-59-1687	49-59-2169
<b>15/16"</b>	49-59-0937	49-59-2094	<b>1-3/4"</b>	49-59-1750	49-59-2175
<b>1"</b>	49-59-1000	49-59-2100	<b>1-13/16"</b>	49-59-1812	49-59-2181
<b>1-1/16"</b>	49-59-1062	49-59-2106	<b>1-7/8"</b>	49-59-1875	49-59-2188
<b>1-1/8"</b>	49-59-1125	49-59-2113	<b>1-15/16"</b>	49-59-1937	49-59-2194
<b>1-3/16"</b>	49-59-1187	49-59-2119	<b>2"</b>	49-59-2000	49-59-2200
<b>1-1/4"</b>	49-59-1250	49-59-2125			

## ANNULAR CUTTER SETS



6 Pc Annular Cutter Set (1" Depth) 49-22-8400	9 Pc Annular Cutter Set (2" Depth) 49-22-8410
<b>Includes:</b> <ul style="list-style-type: none"> <li>9/16", 5/8", 11/16", 13/16", 15/16", 1-1/16" and ejector pin</li> </ul>	<b>Includes:</b> <ul style="list-style-type: none"> <li>1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1-1/16" and (2) ejector pins</li> </ul>

## ANNULAR CUTTER ACCESSORIES

Description	Part Number
<b>#3 Morse Taper To Weldon® Shank Arbor</b>	49-56-0025
<b>Arbor Wrench Set</b>	49-96-0010
<b>(2) 1" Ejector Pins</b>	44-60-1720
<b>(2) 2" Ejector Pins</b>	44-60-1721
<b>HAWG WASH® Lubricant (16 Oz Bottle)</b>	49-32-0081
<b>HAWG WASH® Hand Pump</b>	44-46-0090
<b>HAWG WASH® Hand Pump Oil Hose</b>	43-75-0010