

Cutting Tools

Pro Drills / Specialty Drills / Shooter Taps



Superior Tools



CHROMATE[®]
INDUSTRIAL CORP.

CUTTING TOOL ORGANIZERS

Shooter Taps & Drills



P/N 7786

- 3-Drawer organizer
- 32 taps and drills
- 8 Sizes
- 6-32 to 1/2-13 taps
- #35 to 7/16" drills

Shooter Taps & Drills - Metric



P/N 7788

- 3-Drawer organizer
- Metric sizes
- 20 taps and drills
- 2.5mm x 0.45 to 12mm x 1.75 taps
- 2.05mm to 10.2mm drills

CIC 200™ Pro™ Shooter Taps & Drills



P/N 61603

- 3-Drawer organizer
- 13 CIC 200™ Pro™ Shooter Taps
- 13 CIC 200™ Pro™ Drills
- Taps - 4-40 to 1/2-20
- Drills - #43 to 29/64

CIC 200™ Pro™ Shooter Taps & Drills (With Aligner)



P/N 7805

- 3-Drawer organizer
- 13 CIC 200™ Pro™ Shooter Taps
- 13 CIC 200™ Pro™ Drills
- 4-40 to 1/2-20 taps
- #43 to 29/64 drills
- Tap/ream aligner

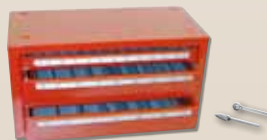
CIC 200™ Pro™ Drills Under-Mount Organizer



P/N 7880

- 45 CIC 200™ Pro™ Drills
- Fractional sizes
- Workbench spacesaver
- Built-in lock secures drawer
- 23 most popular sizes
- 1/16" to 1/2"

CIC 200™ Carbide Rotary Files



P/N 61608

- 3-Drawer Organizer
- Solid carbide with 1/4" shank
- 13 CIC 200™ files
- Cylindrical, ball, oval, round tree, tapered radius, cone, etc.

CIC 200™ Carbide Masonry Drills



P/N 61611

- 3-Drawer organizer
- Fractional sizes
- 26 CIC 200™ masonry drills
- 15 most popular sizes
- 1/8" to 3/4"

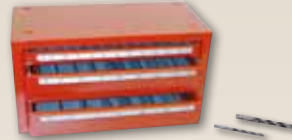
CIC 150™ 118° Split Point Drills



P/N 61677

- 3-Drawer 50 piece organizer
- Fractional sizes
- 50 CIC 200™ Split Point™ drills
- 1/16" to 1/2" by 64ths

CIC 200™ Quad Point™ Drills



P/N 61695

- 3-Drawer organizer
- Fractional sizes
- 50 CIC 200™ Quad Point™ drills
- 23 sizes
- 1/16" to 1/2" by 64ths

CIC 200™ Quad Point™ Drills - Metric



P/N 61696

- 3-Drawer organizer
- Metric sizes
- 25 CIC 200™ Quad Point™ drills
- 1mm to 13mm

CIC 200™ Quad Point Drills - Number Drill Organizer



P/N 61697

- 5-Drawer organizer
- 75 pieces
- 3 pieces of each size
- 25 popular sizes: #3 to #44

CIC 200™ Pro™ Drill Organizer - BASIC Organizer



P/N 61699

- 3-Drawer organizer
- Fractional sizes
- 45 CIC 200™ Pro™ Drills
- 23 of the most popular sizes
- One 29-piece index for filling

CIC 200™ Pro™ Drill Organizer - MEGA Organizer



P/N 61699M

- 3-Drawer organizer
- Fractional sizes
- 58 CIC 200™ Pro™ Drills
- 29 of the most popular sizes
- Two 29-piece indexes for filling

CIC 200™ Pro™ Drill Organizer - STARTER Organizer

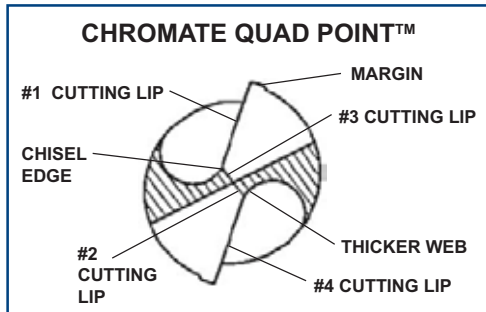


P/N 61699S

- 3-Drawer organizer
- Fractional sizes
- 25 CIC 200™ Pro™ Drills
- 13 of the most popular sizes
- One 29-piece index for filling

CIC 200™ PRO™ DRILLS

CUT WHERE OTHER DRILLS FAIL



HEAVY DUTY WEB
FOR LONGER LIFE AND
GREATER BREAKAGE
RESISTANCE

**PRECISION GROUND
QUAD POINT**
ASSURES FASTER, CLEANER
STARTS, EVEN ON ROUND
HARDENED SURFACES.

EXTENDED FLUTES
REMOVES CHIPS FASTER

GOLD OXIDE FINISH
REDUCES FRICTION
AND HEAT

RELIEVED LANDS
ALLOW AIR AND CUTTING FLUID TO FLOW
AROUND THE DRILL, PROVIDING COOLER
CUTTING AND LONGER LIFE.

SPECIAL MARGIN
MINIMIZES FRICTION FOR
CLEAN ACCURATE CUTTING

GROUND FLATS
ELIMINATES SLIPPAGE IN CHUCK

- CHROMIUM, VANADIUM & MOLYBDENUM ALLOY TOOL STEEL MAINTAINS SHARPNESS AND DURABILITY

- NITRO-CARBURIZED FOR EXCEPTIONAL HARDNESS

- CUTS MATERIALS UP TO 55 ROCKWELL "C" SCALE

- NO NEED FOR CENTER PUNCHING

- ELIMINATES STEP DRILLING

- OUTLASTS ORDINARY DRILLS UP TO 10 TO 1

CUTS:

- Stainless Steel
- Tool Steel
- Exotic Steel
- Standard Steel

DIA.	LENGTH	DEC. EQUIV.	PART	DIA.	LENGTH	DEC. EQUIV.	PART
1/16"	1-7/8"	.0625	97104	19/64"	3-7/8"	.2969	97119
5/64"	2"	.0781	97105	5/16"	4"	.3125	97120
3/32"	2-1/4"	.0938	97106	21/64"	4-1/16"	.3281	97121
7/64"	2-3/8"	.1094	97107	11/32"	4-1/8"	.3438	97122
1/8"	2-1/2"	.1250	97108	23/64"	4-3/16"	.3594	97123
9/64"	2-5/8"	.1406	97109	3/8"	4-1/4"	.3750	97124
5/32"	2-3/4"	.1562	97110	25/64"	4-5/16"	.3906	97125
11/64"	2-7/8"	.1719	97111	13/32"	4-3/8"	.4062	97126
3/16"	3"	.1875	97112	27/64"	4-7/16"	.4219	97127
13/64"	3-1/8"	.2031	97113	7/16"	4-1/2"	.4375	97128
7/32"	3-1/4"	.2188	97114	29/64"	4-5/8"	.4531	97129
15/64"	3-3/8"	.2344	97115	15/32"	4-3/4"	.4688	97130
1/4"	3-1/2"	.2500	97116	31/64"	4-7/8"	.4844	97131
17/64"	3-5/8"	.2656	97117	1/2"	5"	.5000	97132
9/32"	3-3/4"	.2812	97118	-	-	-	-

RazorQwik™ Sets... by t

Master Electrician Set

10 piece set contains the following diameters:

- 7/8"
- 1-1/8"
- 1-3/8"
- 1-3/4"
- 2"
- 2-1/2"
- 3"
- 3-5/8"
- 4-1/8"
- 4-1/2"

Packed in a rugged plastic case.

P/N 8801

Starter Electrician Set

6 piece set contains the following diameters:

- 7/8"
- 1-1/8"
- 1-3/8"
- 1-3/4"
- 2"
- 2-1/2"

Packed in a rugged plastic case.

P/N 8802

Mechanical Set

10 piece set contains the following diameters:

- 5/8"
- 3/4"
- 7/8"
- 1"
- 1-1/8"
- 1-1/4"
- 1-3/8"
- 1-1/2"
- 1-3/4"
- 2"

Packed in a rugged plastic case.

"The perfect, portable tool for the professional electrician, plumber, mechanic and general contractor."

Plumber Set

6 piece set contains the following diameters:

- 3/4" • 1-1/2"
- 7/8" • 1-3/4"
- 1-1/8" • 2-1/4"

Packed in a rugged plastic case.

P/N 8803

Door Set



P/N 8805

For professional lock installation in steel doors, with a cutting depth of 2", it is perfect for drilling steel door lockset holes.

4 piece set contains the following diameters:

- 7/8" • 1-1/2"
- 1" • 2-1/8"

• **Special Tungsten Carbide Teeth**
Superior wear and heat resistance.

• **One-Piece Construction**
No assembly required assuring stable and accurate drilling.

• **Ejector Spring and Pilot Drill**
Ejects the slug, saving time and aggravation trying to remove slugs.

• **Safety Collar Stop**
Prevents over penetration.



P/N 8804

"An extremely productive tool that is a cost effective alternative to bi-metal holesaws."

For cutting pipe, thick steel, steel plate, iron, aluminum, copper, cast iron & stainless steel up to 1" thick. An invaluable time, money & labor saver!

Extender



3/8" Shank
P/N 51104

- Extends hole cutters by 4"
- Precision machined tool steel
- Overall length: 5"

1/2" Shank
P/N 51105

The RazorQwik™ Product Line

RazorQwik™ Hole Cutters

Diameter		RPM (Steel)	Part No.
9/16"	New Size	700-1000	51109
5/8"		700-1000	51110
11/16"		700-1000	51111
3/4"		700-1000	51112
13/16"		700-1000	51113
7/8"		500-800	51114
15/16"		500-800	51115
1"		500-800	51116
1-1/16"		500-800	51117
1-1/8"		500-800	51118
1-1/4"		300-600	51120
1-3/8"		300-600	51122
1-1/2"		300-600	51124
1-5/8"		200-500	51126
1-3/4"		200-500	51128
1-7/8"		200-500	51130
2"		200-500	51132
2-1/8"		200-400	51133
2-1/4"		200-400	51134
2-3/8"		150-300	51135
2-9/16"	New Size	150-300	51106
2-1/2"		150-300	51136
2-5/8"		150-300	51137
2-3/4"		150-300	51138
3"		150-300	51139
3-1/4"		100-200	51140
3-1/2"		100-200	51141
3-5/8"	New Size	100-200	51107
3-3/4"		100-200	51142
4"		100-200	51143
4-1/8"	New Size	100-200	51108
4-1/4"		100-200	51144
4-1/2"		100-200	51145
• Pilot Drill			51146
• Spring			51148
• Carbide Tipped Pilot Drill			51149



RazorQwik™ Hole Cutter Kits

Description	Part No.
Standard Kit – 4-Piece RazorQwik™	8839
• 5/8", 3/4", 7/8", 1" Hole Cutters	
• 4 Pilot Drills	
• 4 Ejector Springs	
Bolt Sizes Kit – 4-Piece RazorQwik™	8837
• 11/16", 13/16", 15/16", 1-1/16" Hole Cutters	
• 4 Pilot Drills	
• 4 Ejector Springs	
Pipe/Conduit Kit – 5-Piece RazorQwik™	8838
• 7/8", 1-1/8", 1-3/8", 1-3/4", 2" Hole Cutters	
• 5 Pilot Drills	
• 5 Ejector Springs	
Steel Case Only	8838C

RazorQwik™ Hole Cutters – Assortment

- P/N 17962**
- 16 Pieces
 - Diameters from 5/8" to 1-1/2"
 - Carbide Tipped Pilot Drill
 - 3 mm Hex Key

RazorQwik™ Stubby Hole Cutters

Diameter	RPM (Steel)	Part No.
5/8"	700-1000	51150
11/16"	700-1000	51151
3/4"	700-1000	51152
13/16"	700-1000	51153
7/8"	500-800	51154
15/16"	500-800	51155
1"	500-800	51156
1-1/16"	500-800	51157
1-1/8"	500-800	51158
1-3/16"	500-800	51159
1-1/4"	300-600	51160
1-5/16"	300-600	51161
1-3/8"	300-600	51162
• Pilot Drill		51163
• Screw		51164
• Spring		51165
• 1/4" and 3/8" Quick Change Adapter		51166



RazorQwik™ Stubby Hole Cutter Kits

Description	Part No.
Standard Kit – 6-Piece RazorQwik™ Stubby	8812
• 5/8", 3/4", 7/8", 1", 1-1/8"	
• Quick Change Adapter	
• 5 Pilot Drills	
• 5 Ejector Springs	
Pipe/Conduit Kit – 6-Piece RazorQwik™ Stubby	8813
• (2) 7/8", (2) 1-1/8", (1) 1-3/8"	
• Quick Change Adapter	
• 5 Pilot Drills	
• 5 Ejector Springs	
Steel Case Only	8812C

RazorQwik™ Stubby Hole Cutters – Assortment

- P/N 17982**
- 14 Pieces
 - Diameters from 5/8" to 1-3/8"
 - 2.5 mm Hex Key

RazorQwik™ Door Lock Cutters

Description	Diameter	Part No.
Door Lock Cutter	1-1/2"	51167
Door Lock Cutter	2-1/8"	51168
Pilot	—	51169
Screw	—	51147



DIAMOND HOLE SAWS

4-PIECE KIT

- **LONG LASTING**

Continuous, brazed edge lasts longer in tile & stone

- **FAST, EASY CUTTING**

Low torque, little pressure required

- **EASIER PLUG REMOVAL**

Over-sized slot in hole saw for easy plug removal

- **No Arbor Required**

- **Sizes: 3/16" to 3/8"**

- **More holes in less time**



P/N 8823

APPLICATIONS

- Porcelain
- Ceramic
- Slate
- Granite
- Marble
- Glass
- Fiberglass
- Travertine
- Cement board
- Laminates



LENOX 

CIC 200™ Hex Shank Combination Drill & Taps

- ***Create holes and tap in a single operation. No center drilling or punching required.***
- ***Quick change hex shank makes it ideal for use in portable power drills.***
- ***Its taper neck design significantly reduces drill & tap breakage.***
- ***A 135° split point permits holes and threads to be cut at high speeds.***
- ***Available in standard and metric machine screw tap sizes.***
- ***Durability provided by high molybdenum content high speed steel.***
- ***More holes per drill than ordinary twist drills, especially in cordless power tools.***
- ***Functional black and gold surface treatment holds lubricant for smoother drilling.***



Hex Shank Combination Drill & Taps

Standard – Inch

Part Number	Size (TPI)	Hex Shank	Overall Length	Drill Diameter	Drill Length	Thread Length
12735	6-32	1/4"	2.17"	0.11"	0.31"	0.43"
12736	8-32	1/4"	2.45"	0.14"	0.37"	0.50"
12737	10-24	1/4"	2.61"	0.15"	0.41"	0.63"
12738	10-32	1/4"	2.61"	0.16"	0.41"	0.93"
12739	12-24	1/4"	2.70"	0.18"	0.47"	0.66"
12740	1/4-20	1/4"	2.89"	0.21"	0.53"	0.78"
12741	1/4-28	1/4"	2.89"	0.22"	0.53"	0.78"
12742	5/16-18	1/4"	3.20"	0.27"	0.69"	0.94"
12743	5/16-24	1/4"	3.20"	0.28"	0.69"	0.94"
12744	3/8-16	11/32"	3.45"	0.32"	0.81"	1.06"
12745	3/8-24	11/32"	3.45"	0.34"	0.81"	1.06"
12746	7/16-14	11/32"	3.83"	0.38"	1.00"	1.25"
12747	7/16-20	11/32"	3.83"	0.40"	1.00"	1.25"
12748	1/2-13	11/32"	4.07"	0.44"	1.13"	1.38"
12749	1/2-20	11/32"	4.07"	0.46"	1.13"	1.38"

Metric

Part Number	Size (TPI)	Hex Shank	Overall Length	Drill Diameter	Drill Length	Thread Length
12914	M4x.7	1/4"	61 mm	3.42 mm	8.00 mm	13.00 mm
12915	M5x.8	1/4"	65 mm	4.34 mm	10.00 mm	15.00 mm
12916	M6x1	1/4"	69 mm	5.17 mm	12.00 mm	17.00 mm
12917	M8x1.25	1/4"	78 mm	6.96 mm	16.00 mm	22.00 mm
12918	M10x1.5	11/32"	84 mm	8.75 mm	20.00 mm	24.00 mm
12919	M12x1.75	11/32"	91 mm	10.54 mm	24.00 mm	27.00 mm

Quick Change Adapter

P/N 51166

- Dual 1/4" and 3/8" drill and drive chuck
- Industrial quality with minimal runout (wobble)
- Fits all accessory types, all brands
- Fits old and new hex shanks with or without power groove



Hex Shank Combination Drill & Tap Sets

Machine Screw

5 piece set contains these tap diameters:

- 6-32
- 8-32
- 10-24
- 10-32
- 12-24

Packed in a rugged plastic case.

P/N 8844



SAE & USS

10 piece set contains these tap diameters:

- 6-32
- 8-32
- 10-24
- 10-32
- 12-24
- 1/4-20
- 5/16-18
- 3/8-16
- 7/16-14
- 1/2-13

Packed in a rugged plastic case.

P/N 8848



USS

5 piece set contains these tap diameters:

- 1/4-20
- 5/16-18
- 3/8-16
- 7/16-14
- 1/2-13

Packed in a rugged plastic case.

P/N 8845



SAE

5 piece set contains these tap diameters:

- 1/4-28
- 5/16-24
- 3/8-24
- 7/16-20
- 1/2-20

Packed in a rugged plastic case.

P/N 8846



Metric

6 piece set contains these tap diameters:

- M4x.7
- M5x.8
- M6x1
- M8x1.25
- M10x1.5
- M12x1.75

Packed in a rugged plastic case.

P/N 8847



CIC 200™ Mechanic Length Hex Shank Drills

Features & Benefits

- Quick Release 1/4" Hex Shank
- 135° split point for fast penetration & accurate starting without center punch.
- Special Hi-Molybdenum tool steel.
- Recommended use in work hardening grades of stainless steel and other hard metal drill applications.
- Especially designed for hand held drills and impacters.
- Quick release eases changing of cutting tools.
- Body and clearance are treated for maximum lubricity.

Part Number	Diameter (Inches)	Overall Length	Flute Length
47429	1/16"	2-5/8"	7/8"
47430	3/32"	3-1/4"	1-1/4"
47431	1/8"	3-1/2"	1-7/16"
47432	5/32"	3-1/2"	1-11/16"
47433	3/16"	3-3/4"	1-7/8"
47434	7/32"	4"	2"
47435	1/4"	4-1/4"	2"
47436	9/32"	3-13/16"	2-1/4"
47437	5/16"	4"	2-1/2"
47438	11/32"	4-7/32"	2-5/8"
47439	3/8"	4-1/4"	2-11/16"
47440	13/32"	4-1/2"	2-13/16"
47441	7/16"	4-1/2"	2-15/16"
47442	15/32"	4-7/8"	3-1/8"
47443	1/2"	5"	3-3/8"



Indexes & Quick Change Adapter



CIC 200™ 12 Piece Index "Hard Plastic Case"

P/N 47444

12 piece set contains these drill diameters:

- 1/16"
- 3/32"
- 1/8"
- 5/32"
- 3/16"
- 7/32"
- 1/4"
- 5/16"
- 3/8"
- 7/16"
- 1/2"
- Quick release adapter

All drills are packed in a rugged plastic case.

CIC 200™ 7 Piece Index "Soft Pouch"

P/N 47445

7 piece set contains these drill diameters:

- 1/16"
- 3/32"
- 1/8"
- 5/32"
- 3/16"
- 7/32"
- 1/4"

CIC 200™ Empty Soft Pouch

P/N 47446



Quick Change Adapter

P/N 51166

- Dual 1/4" and 3/8" drill and drive chuck
- Industrial quality with minimal runout (wobble)
- Fits all accessory types, all brands
- Fits old and new hex shanks with or without power groove

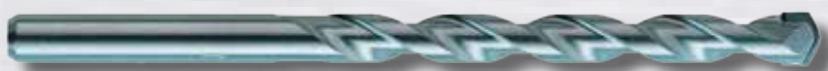
Multi-Purpose Rotary Bits

Features

- Multi material rotary drill bit
- Perfect balance between tip and flute geometry
- Fast and immediate debris removal and smoother, faster drilling
- No center punch needed – eliminates “walking”
- Ideal for cordless drills, corded drills and drill presses

Applications

- Highway rails
- Structural supports
- Pipe mounts
- Electrical mounts
- Bridge construction
- HVAC mounts
- Machinery mounts
- Door and window frames
- Roofing
- Brackets



Part Number	Drill Diameter	Flute Length	Overall Length
47451	1/8"	1-1/4"	2-3/4"
47452	5/32"	2"	3-1/4"
47453	3/16"	2"	3-1/4"
47449	3/16"	3-1/2"	6"
47454	1/4"	2-1/4"	4"
47450	1/4"	3-1/2"	6"
47455	5/16"	3"	4-3/4"
47456	3/8"	3"	4-3/4"
47457	1/2"	3-1/2"	6"

5-Piece Set

P/N 61577

5 piece set contains these drill diameters:

- 1/8" P/N 47451
- 5/32" P/N 47452
- 3/16" P/N 47453
- 1/4" P/N 47454
- 5/16" P/N 47455



7-Piece Set

P/N 61578

7 piece set contains these drill diameters:

- 1/8" P/N 47451
- 5/32" P/N 47452
- 3/16" x 6" P/N 47449
- 1/4" x 6" P/N 47450
- 5/16" P/N 47455
- 3/8" P/N 47456
- 1/2" x 6" P/N 47457



Technical Information

- Unique carbide geometry and centering tips for fast start up and drilling.
- Modern heat-treatment and brazing process ensures proper combination of product hardness, toughness and durability resulting in long life.
- BC20 grade of carbide, diamond ground – designed specifically for relevant materials.
- For use in a huge variety of materials and applications.

Materials

- Concrete & Stone
- Masonry
- Ceramic Tile
- Marble
- Brick
- Granite
- Plastics & Fiberglass
- Plexiglass
- Glass
- Cast Metals
- Hardened Steel
- Wood

Material Type	Cutting Speed (rpm)
Tile	750
Metals	1,000
Masonry	1,500
Plastics	1,750
Wood	2,000



SDS Plus Hammer Drill Bits

Features

- Made in Germany – world renowned for quality of product
- Versatile slot drive system hammer bits fit most rotary hammers
- Aggressive, durable carbide tip (1) allows easy centering and fast drilling
- Dynamic, chisel shaped bit head (2) ensures swift penetration
- Patented, reinforced flute geometry reduces vibration, transfers more impact energy to the cutting face and quickly channels debris from the hole
- Balance of tip and flute geometry ensure perfectly round holes giving superior anchoring



Applications

- Highway rails
- Structural supports
- Pipe mounts
- Electrical mounts
- Bridge construction
- HVAC mounts
- Machinery mounts
- Door and window frames
- Roofing
- Brackets

SDS Plus Hammer Drill Bits

Part Number	Drill Diameter	Max. Drill Depth	Overall Length
77000	5/32"	2"	4"
77001	5/32"	4"	6"
77002	3/16"	2"	4"
77003	3/16"	4"	6"
77004	3/16"	6"	8"
77005	3/16"	10"	12"
77006	7/32"	4"	6"
77007	7/32"	6"	8"
77008	7/32"	9"	11"
77010	7/32"	12"	14"
77011	7/32"	14"	16"
77012	1/4"	2"	4"
77013	1/4"	4"	6"
77014	1/4"	6"	8"
77015	1/4"	8"	10"
77016	1/4"	9"	11"
77017	1/4"	12"	14"
77018	1/4"	14"	16"
77019	5/16"	4"	6"
77020	5/16"	10"	12"
77021	3/8"	4"	6"
77022	3/8"	8"	10"
77023	3/8"	10"	12"
77024	3/8"	16"	18"
77025	3/8"	22"	24"
77026	7/16"	4"	6"
77027	7/16"	10"	12"
77028	1/2"	4"	6"
77029	1/2"	8"	10"
77030	1/2"	10"	12"
77031	1/2"	16"	18"
77032	1/2"	22"	24"
77033	3/4"	22"	24"
77034	5/8"	22"	24"
77036	5/8"	6"	8"
77039	11/16"	6"	8"
77037	5/8"	10"	12"
77035	9/16"	4"	6"
77038	9/16"	16"	18"
77040	3/4"	6"	8"
77041	3/4"	10"	12"
77042	3/4"	16"	18"
77043	27/32"	6"	8"
77044	7/8"	6"	8"
77045	7/8"	10"	12"
77046	1"	8"	10"
77047	1"	16"	18"

7-Piece Set

P/N 61898

7-piece set contains these drill diameters:

- 5/32" X 4" X 6" P/N 77001
- 3/16" X 4" X 6" P/N 77003
- 1/4" X 4" X 6" P/N 77013
- 3/8" X 4" X 6" P/N 77021
- 1/2" X 4" X 6" P/N 77028

Includes Rebar Hammer Bits:

- 1/4" X 4" X 6" P/N 77053
- 3/8" X 4" X 6" P/N 77066



Technical Information

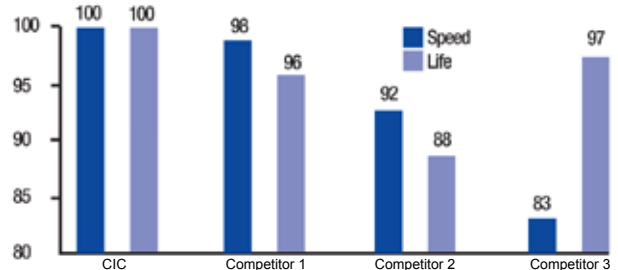
- Versatile slot drive system hammer bits fit most rotary hammers.
- Vacuum brazed with pure copper at 1900°F.
- Vacuum heat treated tool body to 50RC. BC20 grade carbide.
- Reinforced flutes and chisel shaped carbide tip.

Drills Materials

- Concrete & stone
- Masonry
- Grout filled block
- Hollow block
- Solid brick
- Hollow brick
- Cement board
- Granite

SDS Plus Bit - 1/4x6

MACHINE - BOSCH GBH2-20 / MATERIAL - Concrete C45/55
RPM - 750 min-1 / PRESSURE - 100-120 N / DRILLING DEPTH - 3 inch



SDS Plus Rebar Hammer Drill Bits

Features

- Made in Germany – world renowned for quality of product
- "Solid-Tip" Technology cuts through rebar (1)
- 4 Cutter head cuts faster and lasts longer (2)
- Modern heat treat and brazing processes ensuring proper hardness, toughness, and durability for maximum life
- Centering point for improved positioning
- Shortened conical-shaped dust tracks for fast debris removal (3)
- Reinforced core and special flute for maximum energy transfer and reduced vibration



Applications

- Highway rails
- Structural supports
- Pipe mounts
- Electrical mounts
- Bridge construction
- HVAC mounts
- Machinery mounts
- Door and window frames
- Roofing
- Brackets

SDS Plus Rebar Hammer Drill Bits

Part Number	Drill Diameter	Max. Drill Depth	Overall Length
77059	3/16"	2"	4"
77060	3/16"	4"	6"
77061	3/16"	6"	8"
77062	3/16"	8"	10"
77058	3/16"	10"	12"
77052	1/4"	2"	4"
77053	1/4"	4"	6"
77054	1/4"	6"	8"
77055	1/4"	8"	10"
77051	1/4"	10"	12"
77069	5/16"	4"	6"
77067	5/16"	10"	12"
77068	5/16"	16"	18"
77066	3/8"	4"	6"
77064	3/8"	10"	12"
77065	3/8"	16"	18"
77074	7/16"	4"	6"
77072	7/16"	10"	12"
77073	7/16"	16"	18"
77050	1/2"	4"	6"
77048	1/2"	10"	12"
77049	1/2"	16"	18"
77078	9/16"	4"	6"
77076	9/16"	10"	12"
77077	9/16"	16"	18"
77070	5/8"	10"	12"
77071	5/8"	16"	18"
77063	3/4"	16"	18"
77075	7/8"	16"	18"
77057	1"	16"	18"
77056	1-1/4"	16"	18"

5-Piece Set

P/N 61899

5-piece set contains these drill diameters:

- 3/16" x 4" x 6" P/N 77060
- 1/4" x 4" x 6" P/N 77053
- 5/16" x 4" x 6" P/N 77069
- 3/8" x 4" x 6" P/N 77066
- 1/2" x 4" x 6" P/N 77050



Technical Information

- Solid tip cross head design with centering tips for strength and easy start up
- "Solid-Tip" technology cuts through rebar
- 4 cutter head cuts faster and lasts longer
- Reinforced flutes and chisel shaped carbide tip

Drills Materials

- Concrete
- Stone
- Masonry
- Grout filled block
- Hollow block
- Solid brick
- Hollow brick
- Cement board
- Granite



Multi Step Drills

An Entire Drill Set in One Drill!

Features/Advantages

- Titanium Nitride Coated
- Cuts steel plate, stainless steel, sheet metal, tubing
- 1/4" hex shank for use in quick change adapters
- Step sizes laser marked on the tool
- 2 flute design provides faster cleaner holes
- Great in cordless impact drivers
- Perfect for use in battery powered drills because they cut quickly with low power consumption

Applications

- Electrical / HVAC
- Contractor Supplies
- Hardware
- Welding
- Automotive
- Expeditor Industrial / MFG
- Plumbing
- Maintenance & Repair (MRO)
- Fasteners

Speed Recommendations

Diameter	Ferrous	Non-Ferrous
1/2"	400-800	900-2000
3/4"	200-600	500-1500
7/8"	175-500	450-1250
1-1/8"	150-400	400-1000



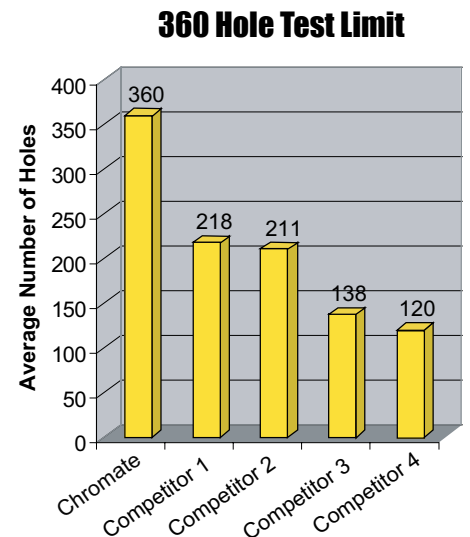
Performance Data

Life testing was performed on Chromate Multi Step Drills versus four competitor products.

Parameters Used:

- Fixed force of 50 lbs
- 1/2" hole to be drilled

Maximum time limit of 60 seconds allowed. Maximum 360 holes per bit to be recorded.



Chromate Multi Step Drill Advantage:
65% better than the nearest competitor.

Part Numbers/Description

Part No.	Size	No. of Steps	Increments
11116	1/2" x 1/8"	13	1/32"
11117	3/4" x 1/4"	9	1/16"
11118	7/8" x 3/16"	12	1/16"
11119	1-1/8" x 7/8" x 1/4"	16	1/8"

Multi Step Drill Set

Features/Advantages

- Titanium Nitride Coated
- Cuts steel plate, stainless steel, sheet metal, tubing
- 1/4" hex shank for use in quick change adapters
- Step sizes laser marked on tool
- 2 flute design provides faster cleaner holes
- Great in cordless impact drivers
- Perfect for use in battery powered drills because they cut quickly with low power consumption

How To Use

- Insert quick change adapter into drill chuck
- Insert multi step drill cutter into quick change adapter
- Use in rotary mode only
- Do not use in hammer or percussion mode
- Recommend using Red Lion™ Toolube™ cutting tool lubricant, P/N 74523
- Begin drilling using light pressure until the drill has penetrated

Speed Recommendations

<u>Diameter</u>	<u>Ferrous</u>	<u>Non-Ferrous</u>
1/2"	400-800	900-2000
3/4"	200-600	500-1500
7/8"	175-500	450-1250

FREE
quick change
adapter with
purchase of kit!



P/N 61644

Set Contains:

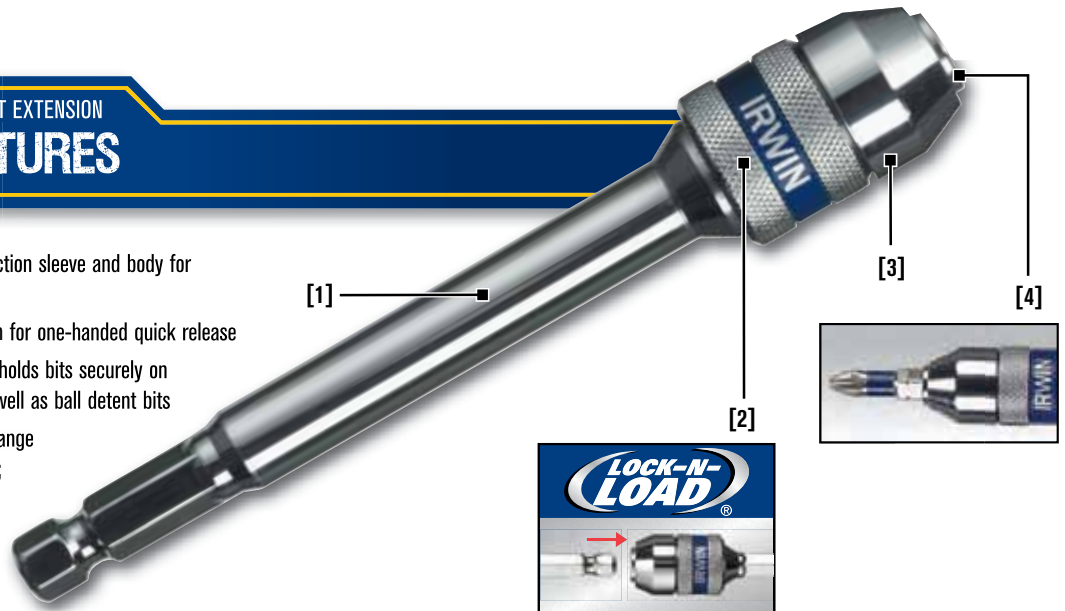
<u>Part No.</u>	<u>Description</u>	<u>Size</u>	<u>No. of Steps</u>	<u>Increments</u>
11116	Drill Bit	1/2" x 1/8"	13	1/32"
11117	Drill Bit	3/4" x 1/4"	9	1/16"
11118	Drill Bit	7/8" x 3/16"	12	1/16"
51166	Quick Change Adapter	1/4" and 3/8"		

LOCK-N-LOAD® QUICK CHANGE EXTENSION

IRWIN.

QUICK CHANGE BIT EXTENSION FEATURES

1. Carbon steel construction sleeve and body for durability and life
2. Lock-n-Load® system for one-handed quick release
3. Patented jaw design holds bits securely on 6-flatted shanks, as well as ball detent bits
4. 1/4" Quick Change range now holds insert bits; magnetic for holding



Lock-n-Load Compatibility

<p>1/4"</p> <p>P/N 83134</p> <p>P/N 83133</p> <p>P/N 83132</p>	<ul style="list-style-type: none"> • SPEEDBOR Blue Groove (All Sizes) • SPEEDBOR Max Speed (Sizes 7/16" to 1-1/4") • Fastener Drive (All products) • UNIBIT® (Sizes #1, #2, #10, #12) • 1/4 Hole Saw Arbor (Sizes 9/16" to 1-3/16") • Countersinks (Sizes #4 to #12)
<p>3/8"</p> <p>P/N 83137</p> <p>P/N 83136</p> <p>P/N 83135</p>	<ul style="list-style-type: none"> • SPEEDBOR Max Speed (Sizes 1-3/8", 1-1/4") • UNIBIT (Sizes #3, #4, #11) • 1/4 Hole Saw Arbor (Sizes 9/16" to 6" diameter saws)
<p>7/16"</p> <p>P/N 83140</p> <p>P/N 83139</p> <p>P/N 83138</p>	<ul style="list-style-type: none"> • 17" Ship Augers (Sizes 9/16" and larger) • 7-1/2" Short Ship Augers (Sizes 1-1/8", 1-1/4") • Self-Feed Bits (All sizes) • UNIBIT (Sizes #5, #9, #13, #14, #20, #21)

P/N	SHANK SIZE	LENGTH (OAL)
83132	1/4"	2"
83133	1/4"	6"
83134	1/4"	12"
83135	3/8"	2"
83136	3/8"	5-1/2"
83137	3/8"	12"
83138	7/16"	5-1/2"
83139	7/16"	12"
83140	7/16"	18"

WOOD DRILLING

Drill Caddy

FOR JOBBER OR MECHANICS LENGTHS

HEAVY DUTY!
NEW and Improved



- **Portable**
- **Weather-tight**
- **Waterproof**
- **Indestructible**
- **Holds 29 Pieces**

Jobber Length
29 Piece Index
1/16" x 1/2" by 64^{ths}



P/N 61642

Jobber Length
Empty Index



P/N 70112

Mechanics Length
29 Piece Index
1/16" x 1/2" by 64^{ths}



P/N 61643

Mechanics Length
Empty Index



P/N 70113

RED LIONTM

CUTTING LUBRICANTS



Cutting Fluid III

P/N 74172

An oil based aerosol lubricant for drilling, tapping, cutting and threading operations.

- Cutting oil lubricates tool and material to provide a clear, smoother, faster cut.
- Authorized by the USDA for use in federally inspected meat and poultry plants.
- Effective on most metals (not for use on aluminum).



Tool Cool II Cutting Fluid

P/N 74185

A solvent based aerosol tool coolant for drilling, tapping, cutting and threading operations.

- Clear tool coolant for drilling, tapping, threading and cutting.
- Fast evaporation provides clean, cool cuts with no clean up.
- Effective on most metals (not for use on aluminum).
- Non-flammable for increased safety.



Toolube Cutting Fluid

P/N 74523

A non-oil based, non-aerosol lubricant for drilling, tapping, cutting and threading operations.

- Specialized lubricant lubricates tool and material to provide a cleaner, smoother, faster & cooler cut.
- Contains no oil and has no strong noxious fumes.
- Easy clean-up and environmentally safe.



Cutting Wax

P/N 74559 – 2 oz.

P/N 74560 – 16 oz.

Specially formulated multi-purpose cutting wax. For faster, smoother cutting operations and longer tool life. Use for all drilling, cutting and tapping applications.

- Continuous shield against friction and heat
- Especially effective on stainless steel, aluminum and many exotic alloys
- Extends tool life and reduces chip welding
- Reduces tool costs and work piece scrap
- Provides a precision finish with closer tolerances on your finished work
- Nonflammable – for increased safety

