



**METAL CUTTING TOOLS | MAGNETIC DRILL PRESS SYSTEMS
ABRASIVES | CONCRETE TOOLS | LUBRICANTS | SAFETY**

PRODUCT CATALOG 2026



125+ YEARS

Dear Valued Champion Cutting Tool Customer,

Thank you for your loyalty and business. We appreciate being your trusted supplier for professional cutting tools, abrasives, magnetic drill presses, and concrete tools.

Last year was an exciting one at Champion. We proudly introduced the new RotoBrute® AC120 SuperBrute Magnetic Drill Press, which addressed a significant need in the market. This innovative tool provides a large capacity drilling solution for steel professionals. Additionally, we re-launched our popular Tap & Die Sets, which have been well received. Professionals who invest in these sets will see the immediate benefits of upgraded hardware and industrial HSS taps.

Champion Cutting Tool's newest PopFlex merchandising system is eye-catching and beautiful. These displays are making a big impression in distributor's showrooms. We are excited to see how this functional new system gives customers the opportunity to expand into new product categories and help users explore new Champion Tools.

Internally, we continue to invest in our company processes and people. Our mission remains steadfast: to provide the highest quality tools and exceptional service in the industry. With consistently high inventory levels, we're ready to meet new business demands. Our expert sales team is available for technical assistance, market opportunities, and to engage directly with tool users.

We understand the challenges of operating a business today, including rising material and shipping costs, as well as labor issues. Champion has put programs together to stay competitive and provide professionals with the best value. Please reach out to your Champion sales representative to learn about our programs and promotions.

As a proud multi-generational family business, we are deeply committed to your success and to supporting the hardworking tradespeople who rely on our tools. We hope you have a healthy, fun, and rewarding year!

Lowell Frey



President, 5th Generation Owner

Allison Frey

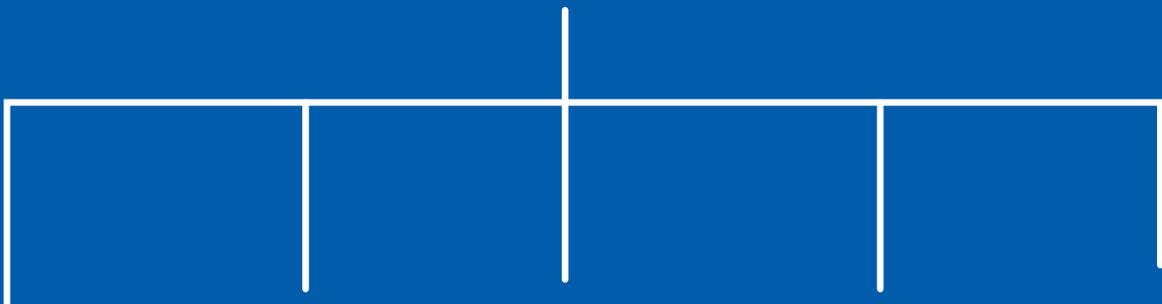


Chief Marketing Officer, 6th Generation Owner

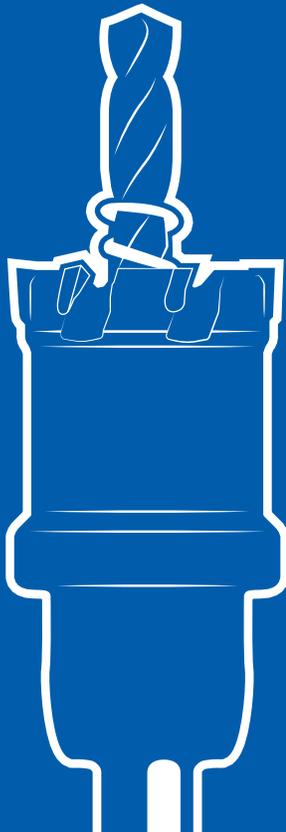
OF CHAMPION

CHAMPION

CUTTING TOOL CORP



PROLINE



ABOUT US

Integrity, Professionalism, and the Best Tools in the World for Over **125 Years**

Established 1897, Champion Cutting Tool still shares the same core values we were founded upon. We create solution oriented tools that increase productivity on every job. High service levels are also a top priority, so we make sure our tools are available when and where they are needed. Six family generations later, we are grateful to be a well-respected leader in the cutting tool industry.

Our highly accessible team radiates positive energy and has a passion for delivering personalized service. We are proud of our experienced sales force who has the problem-solving skills and expert product knowledge to help distributors and cutting tool users meet their business goals. As a service oriented organization, we are constantly evolving to meet the unique needs of the industry.

Champion tools are available across the USA, Canada, Mexico, Puerto Rico, Central America, and the Caribbean Islands, thanks to our large network of distributor partners.

10,000+ Problem Solving Tools | #WorkLikeAChampion

OUR BRANDS

Champion® - Quality Cutting Tools You Can Rely On

Twist Drills | Step Drills | Taps | Dies | Carbide Tipped Hole Cutters | Carbide Burs | Reamers | End Mills
Countersinks | Sheet Metal Cutters

Brute Platinum® - High Performance Cutting Tools

Twist Drills | Taps | Power Tapper | Circular Saw Blades | Reamers | Step Reamers | End Mills | Countersinks
Cutting Lubricants

RotoBrute® - The Ultimate Hole Cutting System

Magnetic Drill Presses | Carbide Tipped Annular Cutters | HSS Annular Cutters | Magnetic Pick-Up Tool

Proline - Concrete, Masonry, Tile & Wood

Hammer Bits (Rotary Percussion Drills) | Rebar Cutters | Hammer Core Drills | Hammer Chisels
Floor Scrapers | Tile Drills | Rotary Masonry Drills | Spade Bits | Auger Bits

Mercer® - Cutting, Grinding & Finishing

Bonded Abrasives | Coated Abrasives | Carbide Blades | Diamond Blades | Wire Wheels & Brushes | Files
Pipe Cutting Guides | Safety Products

OUR STORY



1897

Leon Frey Sr. launches The Frey Company, a hardware store in downtown NYC.

1925

Leon's son, Herbert Frey, joins the family business.

1947

Herbert Frey sells over 10,000,000 Hollow Ground Nesting Screw Drivers.

1955

The Frey Company evolves into a wholesale distributor based on Warren Street in NYC selling the New Process Twist Drill brand to the industrial market.

1964

Leon H. Frey, Herbert's son, joins the family business. His vision to sell the highest quality, top performing tools is still held today.

1965

The Frey Company becomes Champion Twist Drill Corp, now selling a wide variety of twist drills and countersinks. Masonry Drills are introduced.

1971

The Brute XL5 Drill is engineered to be the first premium HSS twist drill for drilling through stainless steel using a handheld power drill.

1975

High Speed Steel gun taps are introduced as a faster way to thread holes in through-hole applications.

1980

Leon Frey develops the SA80 Car Reamer, an innovative maintenance tool designed to enlarge and align holes in steel.

1984

Lowell Frey, Leon's son, is the fifth generation family member to join Champion®.

1985

Champion Twist Drill Corp becomes Champion Cutting Tool Corp, serving the needs of industrial consumers with a wide variety of high quality tools.

1993

Champion® carbide burs, with unique Titanium Nitride Coating, are embraced by professionals who value quality and performance.

1995

Champion Cutting Tool launches Proline concrete drilling tools.

6 Family Generations Serving The Industrial Market

1996

Champion Cutting Tool launches RotoBrute® and becomes an industry leader in magnetic drill press systems.

2001

Diane Ruggiero CPA, joins the Champion Cutting Tool Corp executive team.

2004

Champion® CT7 carbide tipped hole cutters consistently outperform bi-metal hole saws when cutting large diameter holes in steel.

2015

Allison Frey, Lowell's daughter, proudly joins the family business.

2018

Champion Cutting Tool disrupts the circular saw blade market, introducing Brute RZR metal cutting circular saw blades with Cermet teeth - an innovative new material that cuts cooler and longer than carbide.

2019

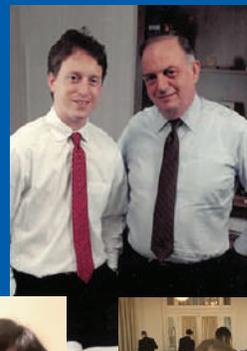
Champion Cutting Tool expands it's reamer line with the Brute XSR Step Reamer- the ultimate maintenance tool for reaming holes in steel - each tool has 5 drill sizes.

2020

Champion proudly acquires Mercer Industries, which is recognized for its strong line of coated and bonded abrasives. Significant parallels exist between Mercer and Champion, including a history rooted in NYC and a family-like culture.

2024

Champion Cutting Tool relaunches it's popular Tap & Die Sets with upgraded hardware and HSS taps.





INDUSTRIES SERVED

CONSTRUCTION

Commercial, Residential, Infrastructure, Architectural Metal & Glass

Twist Drills, Step Drills, Taps & Dies, XLT Tapper, Reamers, Carbide Tipped Hole Cutters, Circular Saw Blades, Countersinks, Sheet Metal Cutters, Hammer Bits, Rebar Cutters, Hammer Core Drills, Masonry Drills, Chisels & Floor Scrapers, Tile Drills, Magnetic Drill Presses & Annular Cutters, Cutting Fluid & Wax, Cut-Off Wheels, Grinding Wheels, Diamond Blades, Wire Wheels, Safety Products

INDUSTRIAL

Manufacturing, CNC Machining, Milling, Aerospace, Automotive, Water Utilities, Energy, Oil & Gas, Mining

Twist Drills, Taps & Dies, XLT Tapper, Reamers, Carbide Tipped Hole Cutters, Circular Saw Blades, Countersinks, End Mills, Carbide Burs, Fiberglass Routers, Turning Tools, Magnetic Drill Presses & Annular Cutters, Cutting Fluid & Wax, Cut-Off Wheels, Grinding Wheels, Wire Wheels, Safety Products

STEEL FABRICATION

Structural Steel (Beam Fabrication), Truck & Trailer Frame Fabrication, Bridge Fabrication, Railroad Fabrication, Fencing & Railing Fabrication, Sign Fabrication, Steel Window & Door Fabrication, Ship Fabrication

Magnetic Drill Presses & Annular Cutters, Twist Drills, Step Drills, Taps & Dies, XLT Tapper, Reamers, Carbide Tipped Hole Cutters, Circular Saw Blades, Countersinks, Sheet Metal Cutters, Carbide Burs, Cutting Fluid & Wax, Cut-Off Wheels, Grinding Wheels, Flap Discs, Fibre Discs, Flap Wheels, Wire Wheels, Files

MAINTENANCE, REPAIR & OPERATIONS

Municipalities, Automotive, Aerospace, Agriculture, Elevator, Power Plants, Food Processing, Hospitality, Entertainment, Technology, Universities, Water Utilities, Energy, Oil & Gas

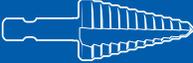
Twist Drills, Step Drills, Taps & Dies, XLT Tapper, Reamers, Carbide Tipped Hole Cutters, Circular Saw Blades, Countersinks, Sheet Metal Cutters, Hammer Bits, Hammer Core Drills, Rebar Cutters, Masonry Drills, Chisels & Floor Scrapers, Tile Drills, Magnetic Drill Presses & Annular Cutters, Cutting Fluid & Wax, Cut-Off Wheels, Grinding Wheels, Wire Wheels, Sanding Discs, Sanding Sheets, Non-Woven Pads & Discs

MECHANICAL, ELECTRICAL & PLUMBING

HVAC, Electrical Systems, Plumbing

Twist Drills, Step Drills, Taps & Dies, XLT Tapper, Reamers, Carbide Tipped Hole Cutters, Circular Saw Blades, Countersinks, Sheet Metal Cutters, Hammer Bits, Hammer Core Drills, Masonry Drills, Tile Drills, Magnetic Drill Presses & Annular Cutters, Cutting Fluid & Wax, Cut-Off Wheels, Sanding Sheets, Sanding Rolls, Non-Woven Pads, Files

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TWIST DRILLS

drilling for professionals.

Over 30 Series Of Twist Drills For Every Application. Brute® Drills Have Been The Ideal Solution For Drilling Stainless Steel & Tough Alloys For Over 50 Years.



Jobber Drills



Series XL5 | High Performance | Black & Bright | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL5-1/16	.0625	7/8	1-7/8
XL5-52	.0635	7/8	1-7/8
XL5-51	.0670	1	2
XL5-50	.0700	1	2
XL5-49	.0730	1	2
XL5-48	.0760	1	2
XL5-5/64	.0781	1	2
XL5-47	.0785	1	2
XL5-46	.0810	1-1/8	2-1/8
XL5-45	.0820	1-1/8	2-1/8
XL5-44	.0860	1-1/8	2-1/8
XL5-43	.0890	1-1/4	2-1/4
XL5-42	.0935	1-1/4	2-1/4
XL5-3/32	.0938	1-1/4	2-1/4
XL5-41	.0960	1-3/8	2-3/8
XL5-40	.0980	1-3/8	2-3/8
XL5-39	.0995	1-3/8	2-3/8
XL5-38	.1015	1-7/16	2-1/2
XL5-37	.1040	1-7/16	2-1/2
XL5-36	.1065	1-7/16	2-1/2
XL5-7/64	.1094	1-1/2	2-5/8
XL5-35	.1100	1-1/2	2-5/8
XL5-34	.1110	1-1/2	2-5/8
XL5-33	.1130	1-1/2	2-5/8
XL5-32	.1160	1-5/8	2-3/4
XL5-31	.1200	1-5/8	2-3/4
XL5-1/8	.1250	1-5/8	2-3/4
XL5-30	.1285	1-5/8	2-3/4
XL5-29	.1360	1-3/4	2-7/8
XL5-28	.1405	1-3/4	2-7/8
XL5-9/64	.1406	1-3/4	2-7/8
XL5-27	.1440	1-7/8	3
XL5-26	.1470	1-7/8	3
XL5-25	.1495	1-7/8	3
XL5-24	.1520	2	3-1/8
XL5-23	.1540	2	3-1/8
XL5-5/32	.1562	2	3-1/8
XL5-22	.1570	2	3-1/8
XL5-21	.1590	2-1/8	3-1/4
XL5-20	.1610	2-1/8	3-1/4
XL5-19	.1660	2-1/8	3-1/4
XL5-18	.1695	2-1/8	3-1/4
XL5-11/64	.1719	2-1/8	3-1/4
XL5-17	.1730	2-3/16	3-3/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL5-16	.1770	2-3/16	3-3/8
XL5-15	.1800	2-3/16	3-3/8
XL5-14	.1820	2-3/16	3-3/8
XL5-13	.1850	2-5/16	3-1/2
XL5-3/16	.1875	2-5/16	3-1/2
XL5-12	.1890	2-5/16	3-1/2
XL5-11	.1910	2-5/16	3-1/2
XL5-10	.1935	2-7/16	3-5/8
XL5-9	.1960	2-7/16	3-5/8
XL5-8	.1990	2-7/16	3-5/8
XL5-7	.2010	2-7/16	3-5/8
XL5-13/64	.2031	2-7/16	3-5/8
XL5-6	.2040	2-1/2	3-3/4
XL5-5	.2055	2-1/2	3-3/4
XL5-4	.2090	2-1/2	3-3/4
XL5-3	.2130	2-1/2	3-3/4
XL5-7/32	.2188	2-1/2	3-3/4
XL5-2	.2210	2-5/8	3-7/8
XL5-1	.2280	2-5/8	3-7/8
XL5-A	.2340	2-5/8	3-7/8
XL5-15/64	.2344	2-5/8	3-7/8
XL5-B	.2380	2-3/4	4
XL5-C	.2420	2-3/4	4
XL5-D	.2460	2-3/4	4
XL5-1/4/E	.2500	2-3/4	4
XL5-F	.2570	2-7/8	4-1/8
XL5-G	.2610	2-7/8	4-1/8
XL5-17/64	.2656	2-7/8	4-1/8
XL5-H	.2660	2-7/8	4-1/8
XL5-I	.2720	2-7/8	4-1/8
XL5-J	.2770	2-7/8	4-1/8
XL5-K	.2810	2-15/16	4-1/4
XL5-9/32	.2812	2-15/16	4-1/4
XL5-L	.2900	2-15/16	4-1/4
XL5-M	.2950	3-1/16	4-3/8
XL5-19/64	.2969	3-1/16	4-3/8
XL5-N	.3020	3-1/16	4-3/8
XL5-5/16	.3125	3-3/16	4-1/2
XL5-O	.3160	3-3/16	4-1/2
XL5-P	.3230	3-5/16	4-5/8
XL5-21/64	.3281	3-5/16	4-5/8
XL5-Q	.3320	3-7/16	4-3/4
XL5-R	.3390	3-7/16	4-3/4
XL5-11/32	.3438	3-7/16	4-3/4



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL5-S	.3480	3-1/2	4-7/8
XL5-T	.3580	3-1/2	4-7/8
XL5-23/64	.3594	3-1/2	4-7/8
XL5-U	.3680	3-5/8	5
XL5-3/8	.3750	3-5/8	5
XL5-V	.3220	3-5/8	5
XL5-W	.3860	3-3/4	5-1/8
XL5-25/64	.3906	3-3/4	5-1/8
XL5-X	.3970	3-3/4	5-1/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL5-Y	.4040	3-7/8	5-1/4
XL5-13/32	.4062	3-7/8	5-1/4
XL5-Z	.4130	3-7/8	5-1/4
XL5-27/64	.4219	3-15/16	5-3/8
XL5-7/16	.4375	4-1/16	5-1/2
XL5-29/64	.4531	4-3/16	5-5/8
XL5-15/32	.4688	4-5/16	5-3/4
XL5-31/64	.4844	4-3/8	5-7/8
XL5-1/2	.5000	4-1/2	6

Metal Cased Sets

Part #	Qty	Contents
113C-XL5	13 Piece	1/16 - 1/4 x 64ths
115C-XL5	15 Piece	1/16 - 1/2 x 32nds
121C-XL5	21 Piece	1/16 - 3/8 x 64ths
126C-XL5	26 Piece	A - Z
129C-XL5	29 Piece	1/16 - 1/2 x 64ths
160C-XL5	60 Piece	#1 - #60
SS150-XL5	115 Piece	1/16 - 1/2 x 64ths #1 - #60 & A - Z

Twister Sets

Part #	Qty	Contents
TWISTER-XL5	29 Piece	1/16 - 1/2 x 64ths

Dispensers & Displays

Part #	Description	Contents
D1-XL5	Dispenser	264 Piece
D1-XL5-LTD	Dispenser	125 Piece
DIS-XL5	Counter Display	Single Pack of 1/16 - 1/2 x 64ths

Power Tool: Power Drill, Drill Press, CNC Machine

Application: Drill Steel, Stainless Steel, Titanium Alloys, Hard To Drill Materials

Features: Self-Centering 135° Split Point, Premium HSS, NoMo Surface Treatment, Tapered Web Geometry, Straight Shank

Advantage: Drill Stainless, Long Tool Life & Smooth Drilling, Penetrate Faster Than Cobalt - Less Operator Fatigue, Flexible - Less Likely To Chip Or Snap, Drill Point Will Not Walk On Workpiece, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Note: Available In iPAC Merchandisable Pack

Left Hand Drills Also Available (XL5LH): Sizes 5/64, 7/64, 5/32, 1/4, 19/64

Left Hand Drills Are Designed For Use In Left Hand Rotation Multiple Spindle, Gear Driven Drilling Heads, Screw Machine Operations, Lathes & Any Machinery With A Left Hand Rotation. Left Hand Drills Are Also Commonly Used For Drilling Out Broken Or Frozen Bolts.



Mechanics Length Drills



Series XL28 | High Performance | Black & Bright | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL28-1/16	.0625	7/8	1-7/8
XL28-5/64	.0781	1	2
XL28-3/32	.0938	1-1/4	2-1/4
XL28-7/64	.1094	1-5/16	2-3/8
XL28-1/8	.1250	1-7/16	2-1/2
XL28-9/64	.1406	1-9/16	2-5/8
XL28-5/32	.1562	1-11/16	2-3/4
XL28-11/64	.1719	1-13/16	2-7/8
XL28-3/16	.1875	1-7/8	3
XL28-13/64	.2031	1-15/16	3-1/8
XL28-7/32	.2188	2	3-1/4
XL28-15/64	.2344	2-1/16	3-3/8
XL28-1/4	.2500	2	3-1/2
XL28-17/64	.2656	2-1/8	3-5/8
XL28-9/32	.2812	2-1/4	3-3/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL28-19/64	.2969	2-3/8	3-7/8
XL28-5/16	.3125	2-1/2	4
XL28-21/64	.3281	2-9/16	4-1/16
XL28-11/32	.3438	2-5/8	4-1/8
XL28-23/64	.3594	2-11/16	4-3/16
XL28-3/8	.3750	2-11/16	4-1/4
XL28-25/64	.3906	2-3/4	4-5/16
XL28-13/32	.4062	2-13/16	4-3/8
XL28-27/64	.4219	2-7/8	4-7/16
XL28-7/16	.4375	2-15/16	4-1/2
XL28-29/64	.4531	3	4-5/8
XL28-15/32	.4688	3-1/8	4-3/4
XL28-31/64	.4844	3-1/4	4-7/8
XL28-1/2	.5000	3-3/8	5



Twister Sets

Part #	Qty	Contents
TWISTER-XL28	29 Piece	1/16 - 1/2 x 64ths

Metal Cased Sets / Dispensers

Part #	Qty	Contents
113-XL28	13 Piece	1/16 - 1/4 x 64ths
115-XL28	15 Piece	1/16 - 1/2 x 32nds
121-XL28	21 Piece	1/16 - 3/8 x 64ths
129-XL28	29 Piece	1/16 - 1/2 x 64ths

Dispensers & Displays

Part #	Description	Contents
D1-XL28	Dispenser	264 Piece
D1-XL28-LTD	Dispenser	125 Piece
DIS-XL28	Counter Display	Single Pack of 1/16 - 1/2 x 64ths



Power Tool: Power Drill, Drill Press

Application: Drill Steel, Stainless Steel, Titanium Alloys, Hard To Drill Materials

Features: Short Mechanics Length, Flatted Shank for Secure Fit In Keyless Drill Chuck, Self-Centering 135° Split Point, Premium HSS, NoMo Surface Treatment, Tapered Web Geometry

Advantage: Power Of An XL5 Drill With The Convenience Of Flatted Shank / Shorter Length Adds Rigidity & Enhances Operator Control, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Note: Available In iPAC Merchandisable Pack

Hex Shank Drills



Series HEX28 | Impact Ready | 1/4" Hex Shank | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
HEX28-1/16	.0625	7/8	1-7/8
HEX28-3/32	.0938	1-3/16	2-1/4
HEX28-1/8	.1250	1-1/2	2-5/8
HEX28-5/32	.1563	1-5/8	2-3/4
HEX28-3/16	.1875	1-7/8	3
HEX28-7/32	.2188	2-1/8	3-1/4
HEX28-1/4	.2500	2-3/8	3-1/2
HEX28-9/32	.2812	2-3/4	3-3/4
HEX28-5/16	.3125	2-7/8	4
HEX28-3/8	.3750	3-1/4	4-1/4
HEX28-7/16	.4375	3-3/8	4-1/2
HEX28-1/2	.5000	4	5

New Drill Set Available 2025



Power Tool: 1/4" Impact Driver, Power Drill

Application: Drill Wood, Aluminum, & Low To Medium Strength Steel Alloys

Features: Shorter, Mechanics Length Design Enhances Operator Control & Increases Rigidity, Self-Centering 135° Split Point

Advantage: Professional Grade - Ideal For Electrical, Maintenance, Construction, Automotive, Industrial Work, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Note: Available In iPAC Merchandisable Pack

Jobber Drills



Series 705C | Heavy Duty | Cobalt | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705C-80*	.0135	1/8	3/4
705C-79*	.0145	1/8	3/4
705C-1/64*	.0156	3/16	3/4
705C-78*	.0160	3/16	7/8
705C-77*	.0180	3/16	7/8
705C-76*	.0200	3/16	7/8
705C-75*	.0210	1/4	1
705C-74*	.0225	1/4	1
705C-73*	.0240	5/16	1-1/8
705C-72*	.0250	5/16	1-1/8
705C-71*	.0260	3/8	1-1/4
705C-70*	.0280	3/8	1-1/4
705C-69*	.0292	1/2	1-3/8
705C-68*	.0310	1/2	1-3/8
705C-1/32*	.0312	1/2	1-3/8
705C-67*	.0320	1/2	1-3/8
705C-66*	.0330	1/2	1-3/8
705C-65*	.0350	5/8	1-1/2
705C-64*	.0360	5/8	1-1/2
705C-63*	.0370	5/8	1-1/2
705C-62*	.0380	5/8	1-1/2
705C-61*	.0390	11/16	1-5/8
705C-60*	.0400	11/16	1-5/8
705C-59*	.0410	11/16	1-5/8
705C-58*	.0420	11/16	1-5/8
705C-57*	.0430	3/4	1-3/4
705C-56*	.0465	3/4	1-3/4
705C-3/64*	.0469	3/4	1-3/4
705C-55*	.0520	7/8	1-7/8
705C-54*	.0550	7/8	1-7/8
705C-53*	.0595	7/8	1-7/8
705C-1/16	.0625	7/8	1-7/8
705C-52	.0635	7/8	1-7/8
705C-51	.0670	1	2
705C-50	.0700	1	2
705C-49	.0730	1	2
705C-48	.0760	1	2
705C-5/64	.0781	1	2
705C-47	.0785	1	2
705C-46	.0810	1-1/8	2-1/8
705C-45	.0820	1-1/8	2-1/8
705C-44	.0860	1-1/8	2-1/8
705C-43	.0890	1-1/4	2-1/4
705C-42	.0935	1-1/4	2-1/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705C-3/32	.0938	1-1/4	2-1/4
705C-41	.0960	1-3/8	2-3/8
705C-40	.0980	1-3/8	2-3/8
705C-39	.0995	1-3/8	2-3/8
705C-38	.1015	1-7/16	2-1/2
705C-37	.1040	1-7/16	2-1/2
705C-36	.1065	1-7/16	2-1/2
705C-7/64	.1094	1-1/2	2-5/8
705C-35	.1100	1-1/2	2-5/8
705C-34	.1110	1-1/2	2-5/8
705C-33	.1130	1-1/2	2-5/8
705C-32	.1160	1-5/8	2-3/4
705C-31	.1200	1-5/8	2-3/4
705C-1/8	.1250	1-5/8	2-3/4
705C-30	.1285	1-5/8	2-3/4
705C-29	.1360	1-3/4	2-7/8
705C-28	.1405	1-3/4	2-7/8
705C-9/64	.1406	1-3/4	2-7/8
705C-27	.1440	1-7/8	3
705C-26	.1470	1-7/8	3
705C-25	.1495	1-7/8	3
705C-24	.1520	2	3-1/8
705C-23	.1540	2	3-1/8
705C-5/32	.1562	2	3-1/8
705C-22	.1570	2	3-1/8
705C-21	.1590	2-1/8	3-1/4
705C-20	.1610	2-1/8	3-1/4
705C-19	.1660	2-1/8	3-1/4
705C-18	.1695	2-1/8	3-1/4
705C-11/64	.1719	2-1/8	3-1/4
705C-17	.1730	2-3/16	3-3/8
705C-16	.1770	2-3/16	3-3/8
705C-15	.1800	2-3/16	3-3/8
705C-14	.1820	2-3/16	3-3/8
705C-13	.1850	2-5/16	3-1/2
705C-3/16	.1875	2-5/16	3-1/2
705C-12	.1890	2-5/16	3-1/2
705C-11	.1910	2-5/16	3-1/2
705C-10	.1935	2-7/16	3-5/8
705C-9	.1960	2-7/16	3-5/8
705C-8	.1990	2-7/16	3-5/8
705C-7	.2010	2-7/16	3-5/8
705C-13/64	.2031	2-7/16	3-5/8
705C-6	.2040	2-1/2	3-3/4



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705C-5	.2055	2-1/2	3-3/4
705C-4	.2090	2-1/2	3-3/4
705C-3	.2130	2-1/2	3-3/4
705C-7/32	.2188	2-1/2	3-3/4
705C-2	.2210	2-5/8	3-7/8
705C-1	.2280	2-5/8	3-7/8
705C-A	.2340	2-5/8	3-7/8
705C-15/64	.2344	2-5/8	3-7/8
705C-B	.2380	2-3/4	4
705C-C	.2420	2-3/4	4
705C-D	.2460	2-3/4	4
705C-1/4E	.2500	2-3/4	4
705C-F	.2570	2-7/8	4-1/8
705C-G	.2610	2-7/8	4-1/8
705C-17/64	.2656	2-7/8	4-1/8
705C-H	.2660	2-7/8	4-1/8
705C-I	.2720	2-7/8	4-1/8
705C-J	.2770	2-7/8	4-1/8
705C-K	.2810	2-15/16	4-1/4
705C-9/32	.2812	2-15/16	4-1/4
705C-L	.2900	2-15/16	4-1/4
705C-M	.2950	3-1/16	4-3/8
705C-19/64	.2969	3-1/16	4-3/8
705C-N	.3020	3-1/16	4-3/8
705C-5/16	.3125	3-3/16	4-1/2

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705C-0	.3160	3-3/16	4-1/2
705C-P	.3230	3-5/16	4-5/8
705C-21/64	.3281	3-5/16	4-5/8
705C-Q	.3320	3-7/16	4-3/4
705C-R	.3390	3-7/16	4-3/4
705C-11/32	.3438	3-7/16	4-3/4
705C-S	.3480	3-1/2	4-7/8
705C-T	.3580	3-1/2	4-7/8
705C-23/64	.3594	3-1/2	4-7/8
705C-U	.3680	3-5/8	5
705C-3/8	.3750	3-5/8	5
705C-V	.3770	3-5/8	5
705C-W	.3860	3-3/4	5-1/8
705C-25/64	.3906	3-3/4	5-1/8
705C-X	.3970	3-3/4	5-1/8
705C-Y	.4040	3-7/8	5-1/4
705C-13/32	.4602	3-7/8	5-1/4
705C-Z	.4130	3-7/8	5-1/4
705C-27/64	.4219	3-15/16	5-3/8
705C-7/16	.4375	4-1/16	5-1/2
705C-29/64	.4531	4-3/16	5-5/8
705C-15/32	.4688	4-5/16	5-3/4
705C-31/64	.4844	4-3/8	5-7/8
705C-1/2	.5000	4-1/2	6

* Sizes #53-80 are not split point

Twister Sets

Part #	Qty	Contents
TWISTER-705C	29 Piece	1/16 – 1/2 x 64ths

Displays

Part #	Description	Contents
DIS-705C	Counter Display	Single Pack of 1/16 - 1/2 x 64ths

Metal Cased Sets

Part #	Qty	Contents
113CO	13 Piece	1/16 – 1/4 x 64ths
115CO	15 Piece	1/16 – 1/2 x 32nds
121CO	21 Piece	1/16 – 3/8 x 64ths
126CO	26 Piece	A – Z
129CO	29 Piece	1/16 – 1/2 x 64ths
160CO	60 Piece	#1 – #60
SS115CO	115 Piece	1/16 – 1/2 x 64ths #1 – #60, A – Z

Power Tool: Drill Press, CNC Machine, Power Drill

Application: Drill High Tensile Materials Like Stainless Steel, High Strength Alloy Steels

Features: M42 Cobalt, Self-Centering 135° Split Point, Straight Shank

Advantage: Cobalt Is Heat Resistant & Maintains Sharp Cutting Ability At High Temperatures, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Jobber Drills



Series XGO | Heavy Duty | Black & Gold | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XGO-60*	.0400	11/16	1-5/8
XGO-59*	.0410	11/16	1-5/8
XGO-58*	.0420	11/16	1-5/8
XGO-57*	.0430	3/4	1-3/4
XGO-56*	.0465	3/4	1-3/4
XGO-55*	.0520	7/8	1-7/8
XGO-54*	.0550	7/8	1-7/8
XGO-53*	.0595	7/8	1-7/8
XGO-1/16	.0625	7/8	1-7/8
XGO-52	.0635	7/8	1-7/8
XGO-51	.0670	1	2
XGO-50	.0700	1	2
XGO-49	.0730	1	2
XGO-48	.0760	1	2
XGO-5/64	.0781	1	2
XGO-47	.0785	1	2
XGO-46	.0810	1-1/8	2-1/8
XGO-45	.0820	1-1/8	2-1/8
XGO-44	.0860	1-1/8	2-1/8
XGO-43	.0890	1-1/4	2-1/4
XGO-42	.0935	1-1/4	2-1/4
XGO-3/32	.0938	1-1/4	2-1/4
XGO-41	.0960	1-3/8	2-3/8
XGO-40	.0980	1-3/8	2-3/8
XGO-39	.0995	1-3/8	2-3/8
XGO-38	.1015	1-7/16	2-1/2
XGO-37	.1040	1-7/16	2-1/2
XGO-36	.1065	1-7/16	2-1/2
XGO-7/64	.1094	1-1/2	2-5/8
XGO-35	.1100	1-1/2	2-5/8
XGO-34	.1110	1-1/2	2-5/8
XGO-33	.1130	1-1/2	2-5/8
XGO-32	.1160	1-5/8	2-3/4
XGO-31	.1200	1-5/8	2-3/4
XGO-1/8	.1250	1-5/8	2-3/4
XGO-30	.1285	1-5/8	2-3/4
XGO-29	.1360	1-3/4	2-7/8
XGO-28	.1405	1-3/4	2-7/8
XGO-9/64	.1406	1-3/4	2-7/8
XGO-27	.1440	1-7/8	3
XGO-26	.1470	1-7/8	3
XGO-25	.1495	1-7/8	3
XGO-24	.1520	2	3-1/8
XGO-23	.1540	2	3-1/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XGO-5/32	.1562	2	3-1/8
XGO-22	.1570	2	3-1/8
XGO-21	.1590	2-1/8	3-1/4
XGO-20	.1610	2-1/8	3-1/4
XGO-19	.1660	2-1/8	3-1/4
XGO-18	.1695	2-1/8	3-1/4
XGO-11/64	.1719	2-1/8	3-1/4
XGO-17	.1730	2-3/16	3-3/8
XGO-16	.1770	2-3/16	3-3/8
XGO-15	.1800	2-3/16	3-3/8
XGO-14	.1820	2-3/16	3-3/8
XGO-13	.1850	2-5/16	3-1/2
XGO-3/16	.1875	2-5/16	3-1/2
XGO-12	.1890	2-5/16	3-1/2
XGO-11	.1910	2-5/16	3-1/2
XGO-10	.1935	2-7/16	3-5/8
XGO-9	.1960	2-7/16	3-5/8
XGO-8	.1990	2-7/16	3-5/8
XGO-7	.2010	2-7/16	3-5/8
XGO-13/64	.2031	2-7/16	3-5/8
XGO-6	.2040	2-1/2	3-3/4
XGO-5	.2055	2-1/2	3-3/4
XGO-4	.2090	2-1/2	3-3/4
XGO-3	.2130	2-1/2	3-3/4
XGO-7/32	.2188	2-1/2	3-3/4
XGO-2	.2210	2-5/8	3-7/8
XGO-1	.2280	2-5/8	3-7/8
XGO-A	.2340	2-5/8	3-7/8
XGO-15/64	.2344	2-5/8	3-7/8
XGO-B	.2380	2-3/4	4
XGO-C	.2420	2-3/4	4
XGO-D	.2460	2-3/4	4
XGO-1/4/E	.2500	2-3/4	4
XGO-F	.2570	2-7/8	4-1/8
XGO-G	.2610	2-7/8	4-1/8
XGO-17/64	.2656	2-7/8	4-1/8
XGO-H	.2660	2-7/8	4-1/8
XGO-I	.2720	2-7/8	4-1/8
XGO-J	.2770	2-7/8	4-1/8
XGO-K	.2810	2-15/16	4-1/4
XGO-9/32	.2812	2-15/16	4-1/4
XGO-L	.2900	2-15/16	4-1/4
XGO-M	.2950	3-1/16	4-3/8
XGO-19/64	.2969	3-1/16	4-3/8



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XGO-N	.3020	3-1/16	4-3/8
XGO-5/16	.3125	3-3/16	4-1/2
XGO-O	.3160	3-3/16	4-1/2
XGO-P	.3230	3-5/16	4-5/8
XGO-21/64	.3281	3-5/16	4-5/8
XGO-Q	.3320	3-7/16	4-3/4
XGO-R	.3390	3-7/16	4-3/4
XGO-11/32	.3438	3-7/16	4-3/4
XGO-S	.3480	3-1/2	4-7/8
XGO-T	.3580	3-1/2	4-7/8
XGO-23/64	.3594	3-1/2	4-7/8
XGO-U	.3680	3-5/8	5
XGO-3/8	.3750	3-5/8	5

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XGO-V	.3220	3-5/8	5
XGO-W	.3860	3-3/4	5-1/8
XGO-25/64	.3906	3-3/4	5-1/8
XGO-X	.3970	3-3/4	5-1/8
XGO-Y	.4040	3-7/8	5-1/4
XGO-13/32	.4062	3-7/8	5-1/4
XGO-Z	.4130	3-7/8	5-1/4
XGO-27/64	.4219	3-15/16	5-3/8
XGO-7/16	.4375	4-1/16	5-1/2
XGO-29/64	.4531	4-3/16	5-5/8
XGO-15/32	.4688	4-5/16	5-3/4
XGO-31/64	.4844	4-3/8	5-7/8
XGO-1/2	.5000	4-1/2	6

* Sizes #53-60 are not split point

Twister Sets

Part #	Qty	Contents
TWISTER-XGO	29 Piece	1/16 – 1/2 x 64ths

Displays

Part #	Description	Contents
DIS-XGO	Counter Display	Single Pack of 1/16 - 1/2 x 64ths

Metal Cased Sets

Part #	Qty	Contents
113-XGO	13 Piece	1/16 – 1/4 x 64ths
115-XGO	15 Piece	1/16 – 1/2 x 32nds
129-XGO	29 Piece	1/16 – 1/2 x 64ths



Power Tool: Power Drill, Drill Press

Application: Drill Medium - Hard Steel Alloys

Features: Self-Centering 135° Split Point, BlackGold Surface Treatment, Straight Shank

Advantage: Longer & Smoother Drilling Than Standard Jobber Drills, Drill Hard Materials, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Note: Available In iPAC Merchandisable Pack

Jobber Drills



Series 705SP | General Purpose | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705SP-60*	.0400	11/16	1-5/8
705SP-59*	.0410	11/16	1-5/8
705SP-58*	.0420	11/16	1-5/8
705SP-57*	.0430	3/4	1-3/4
705SP-56*	.0465	3/4	1-3/4
705SP-3/64*	.0469	3/4	1-3/4
705SP-55*	.0520	7/8	1-7/8
705SP-54*	.0550	7/8	1-7/8
705SP-53*	.0595	7/8	1-7/8
705SP-1/16	.0625	7/8	1-7/8
705SP-52	.0635	7/8	1-7/8
705SP-51	.0670	1	2
705SP-50	.0700	1	2
705SP-49	.0730	1	2
705SP-48	.0760	1	2
705SP-5/64	.0781	1	2
705SP-47	.0785	1	2
705SP-46	.0810	1-1/8	2-1/8
705SP-45	.0820	1-1/8	2-1/8
705SP-44	.0860	1-1/8	2-1/8
705SP-43	.0890	1-1/4	2-1/4
705SP-42	.0935	1-1/4	2-1/4
705SP-3/32	.0938	1-1/4	2-1/4
705SP-41	.0960	1-3/8	2-3/8
705SP-40	.0980	1-3/8	2-3/8
705SP-39	.0995	1-3/8	2-3/8
705SP-38	.1015	1-7/16	2-1/2
705SP-37	.1040	1-7/16	2-1/2
705SP-36	.1065	1-7/16	2-1/2
705SP-7/64	.1094	1-1/2	2-5/8
705SP-35	.1100	1-1/2	2-5/8
705SP-34	.1110	1-1/2	2-5/8
705SP-33	.1130	1-1/2	2-5/8
705SP-32	.1160	1-5/8	2-3/4
705SP-31	.1200	1-5/8	2-3/4
705SP-1/8	.1250	1-5/8	2-3/4
705SP-30	.1285	1-5/8	2-3/4
705SP-29	.1360	1-3/4	2-7/8
705SP-28	.1405	1-3/4	2-7/8
705SP-9/64	.1406	1-3/4	2-7/8
705SP-27	.1440	1-7/8	3
705SP-26	.1470	1-7/8	3
705SP-25	.1495	1-7/8	3
705SP-24	.1520	2	3-1/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705SP-23	.1540	2	3-1/8
705SP-5/32	.1562	2	3-1/8
705SP-22	.1570	2	3-1/8
705SP-21	.1590	2-1/8	3-1/4
705SP-20	.1610	2-1/8	3-1/4
705SP-19	.1660	2-1/8	3-1/4
705SP-18	.1695	2-1/8	3-1/4
705SP-11/64	.1719	2-1/8	3-1/4
705SP-17	.1730	2-3/16	3-3/8
705SP-16	.1770	2-3/16	3-3/8
705SP-15	.1800	2-3/16	3-3/8
705SP-14	.1820	2-3/16	3-3/8
705SP-13	.1850	2-5/16	3-1/2
705SP-3/16	.1875	2-5/16	3-1/2
705SP-12	.1890	2-5/16	3-1/2
705SP-11	.1910	2-5/16	3-1/2
705SP-10	.1935	2-7/16	3-5/8
705SP-9	.1960	2-7/16	3-5/8
705SP-8	.1990	2-7/16	3-5/8
705SP-7	.2010	2-7/16	3-5/8
705SP-13/64	.2031	2-7/16	3-5/8
705SP-6	.2040	2-1/2	3-3/4
705SP-5	.2055	2-1/2	3-3/4
705SP-4	.2090	2-1/2	3-3/4
705SP-3	.2130	2-1/2	3-3/4
705SP-7/32	.2188	2-1/2	3-3/4
705SP-2	.2210	2-5/8	3-7/8
705SP-1	.2280	2-5/8	3-7/8
705SP-A	.2340	2-5/8	3-7/8
705SP-15/64	.3244	2-5/8	3-7/8
705SP-B	.2380	2-3/4	4
705SP-C	.2420	2-3/4	4
705SP-D	.2460	2-3/4	4
705SP-1/4/E	.2500	2-3/4	4
705SP-F	.2570	2-7/8	4-1/8
705SP-G	.2610	2-7/8	4-1/8
705SP-17/64	.2656	2-7/8	4-1/8
705SP-H	.2660	2-7/8	4-1/8
705SP-I	.2720	2-7/8	4-1/8
705SP-J	.2770	2-7/8	4-1/8
705SP-K	.2810	2-15/16	4-1/4
705SP-9/32	.2812	2-15/16	4-1/4
705SP-L	.2900	2-15/16	4-1/4
705SP-M	.2950	3-1/16	4-3/8

135°



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705SP-19/64	.2969	3-1/16	4-3/8
705SP-N	.3020	3-1/16	4-3/8
705SP-O	.3160	3-3/16	4-1/2
705SP-P	.3230	3-5/16	4-5/8
705SP-21/64	.3281	3-5/16	4-5/8
705SP-Q	.3320	3-7/16	4-3/4
705SP-R	.3390	3-7/16	4-3/4
705SP-11/32	.3438	3-7/16	4-3/4
705SP-S	.3480	3-1/2	4-7/8
705SP-T	.3580	3-1/2	4-7/8
705SP-23/64	.3594	3-1/2	4-7/8
705SP-U	.3680	3-5/8	5
705SP-3/8	.3750	3-5/8	5

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705SP-V	.3770	3-5/8	5
705SP-W	.3860	3-3/4	5-1/8
705SP-25/64	.3906	3-3/4	5-1/8
705SP-X	.3970	3-3/4	5-1/8
705SP-Y	.4040	3-7/8	5-1/4
705SP-13/32	.4062	3-7/8	5-1/4
705SP-Z	.4130	3-7/8	5-1/4
705SP-27/64	.4219	3-15/16	5-3/8
705SP-7/16	.4375	4-1/16	5-1/2
705SP-29/64	.4531	4-3/16	5-5/8
705SP-15/32	.4688	4-5/16	5-3/4
705SP-31/64	.4844	4-3/8	5-7/8
705SP-1/2	.5000	4-1/2	6

* Sizes #53-60 are not split point

Metal Cased Sets

Part #	Qty	Contents
115C-SP	15 Piece	1/16 – 1/2 x 32nds
129C-SP	29 Piece	1/16 – 1/2 x 64ths
160C-SP	60 Piece	#1 – #60
SS150-SP	115 Piece	1/16 – 1/2 x 64ths, #1 – #60, A – Z

Power Tool: Power Drill, Drill Press

Application: Drill Medium - Hard Steel Alloys

Features: Self-Centering 135° Split Point, Black Oxide Surface Treatment, Straight Shank

Advantage: Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Jobber Drills



Series 705 | General Purpose | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705-80	.0135	1/8	3/4
705-79	.0145	1/8	3/4
705-1/64	.0156	3/16	3/4
705-78	.0160	3/16	7/8
705-77	.0180	3/16	7/8
705-76	.0200	3/16	7/8
705-75	.0210	1/4	1
705-74	.0225	1/4	1
705-73	.0240	5/16	1-1/8
705-72	.0250	5/16	1-1/8
705-71	.0260	3/8	1-1/4
705-70	.0280	3/8	1-1/4
705-69	.0292	1/2	1-3/8
705-68	.0310	1/2	1-3/8
705-1/32**	.0312	1/2	1-3/8
705-67	.0320	1/2	1-3/8
705-66	.0330	1/2	1-3/8
705-65	.0350	5/8	1-1/2
705-64	.0360	5/8	1-1/2
705-63	.0370	5/8	1-1/2
705-62	.0380	5/8	1-1/2
705-61	.0390	11/16	1-5/8
705-60	.0400	11/16	1-5/8
705-59	.0410	11/16	1-5/8
705-58	.0420	11/16	1-5/8
705-57	.0430	3/4	1-3/4
705-56	.0465	3/4	1-3/4
705-3/64**	.0469	3/4	1-3/4
705-55	.0520	7/8	1-7/8
705-54	.0550	7/8	1-7/8
705-53	.0595	7/8	1-7/8
705-1/16**	.0625	7/8	1-7/8
705-52	.0635	7/8	1-7/8
705-51	.0670	1	2
705-50	.0700	1	2
705-49	.0730	1	2
705-48	.0760	1	2
705-5/64**	.0781	1	2
705-47	.0785	1	2
705-46	.0810	1-1/8	2-1/8
705-45	.0820	1-1/8	2-1/2
705-44	.0860	1-1/8	2-1/8
705-43	.0890	1-1/4	2-1/4
705-42	.0935	1-1/4	2-1/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705-3/32**	.0938	1-1/4	2-1/4
705-41	.0960	1-3/8	2-3/8
705-40	.0980	1-3/8	2-3/8
705-39	.0995	1-3/8	2-3/8
705-38	.1015	1-7/16	2-1/2
705-37	.1040	1-7/16	2-1/2
705-36	.1065	1-7/16	2-1/2
705-7/64**	.1094	1-1/2	2-5/8
705-35	.1100	1-1/2	2-5/8
705-34	.1110	1-1/2	2-5/8
705-33	.1130	1-1/2	2-5/8
705-32	.1160	1-5/8	2-3/4
705-31	.1200	1-5/8	2-3/4
705-1/8**	.1250	1-5/8	2-3/4
705-30	.1285	1-5/8	2-3/4
705-29	.1360	1-3/4	2-7/8
705-28	.1405	1-3/4	2-7/8
705-9/64**	.1406	1-3/5	3-7/8
705-27	.1440	1-7/8	3
705-26	.1470	1-7/8	3
705-25	.1495	1-7/8	3
705-24	.1520	2	3-1/8
705-23	.1540	2	3-1/8
705-5/32**	.1562	2	3-1/8
705-22	.1570	2	3-1/8
705-21	.1590	2-1/8	3-1/4
705-20	.1610	2-1/8	3-1/4
705-19	.1660	2-1/8	3-1/4
705-18	.1695	2-1/8	3-1/4
705-11/64**	.1719	2-1/8	3-1/4
705-17	.1730	2-3/16	3-3/8
705-16	.1770	2-3/16	3-3/8
705-15	.1800	2-3/16	3-3/8
705-14	.1820	2-3/16	3-3/8
705-13	.1850	2-5/16	3-1/2
705-3/16**	.1875	2-5/16	3-1/2
705-12	.1890	2-5/16	3-1/2
705-11	.1910	2-5/16	3-1/2
705-10	.1935	2-7/16	3-5/8
705-9	.1960	2-7/16	3-5/8
705-8	.1990	2-7/16	3-5/8
705-7	.2010	2-7/16	3-5/8
705-13/64**	.2031	2-7/16	3-5/8
705-6	.2040	2-1/2	3-3/4

118°



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705-5	.2055	2-1/2	3-3/4
705-4	.2090	2-1/2	3-3/4
705-3	.2130	2-1/2	3-3/4
705-7/32**	.2188	2-1/2	3-3/4
705-2	.2210	2-5/8	3-7/8
705-1	.2280	2-5/8	3-7/8
705-A	.2340	2-5/8	3-7/8
705-15/64**	.2344	2-5/8	3-7/8
705-B	.2380	2-3/4	4
705-C	.2420	2-3/4	4
705-D	.2460	2-3/4	4
705-1/4E**	.2500	2-3/4	4
705-F	.2570	2-7/8	4-1/8
705-G	.2610	2-7/8	4-1/8
705-17/64**	.2656	2-7/8	4-1/8
705-H	.2660	2-7/8	4-1/8
705-I	.2720	2-7/8	4-1/8
705-J	.2770	2-7/8	4-1/8
705-K	.2810	2-15/16	4-1/4
705-9/32**	.2812	2-15/16	4-1/4
705-L	.2900	2-15/16	4-1/4
705-M	.2950	3-1/16	4-3/8
705-19/64**	.2696	3-1/16	4-3/8
705-N	.3020	3-1/16	4-3/8
705-5/16**	.3125	3-3/16	4-1/2
705-O	.3160	3-3/16	4-1/2
705-P	.3230	3-5/16	4-5/8
705-21/64**	.3281	3-5/16	4-5/8
705-Q	.3320	3-7/16	4-3/4
705-R	.3390	3-7/16	4-3/4
705-11/32**	.3438	3-7/16	4-3/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705-S	.3480	3-1/2	4-7/8
705-T	.3580	3-1/2	4-7/8
705-23/64**	.3594	3-1/2	4-7/8
705-U	.3680	3-5/8	5
705-3/8**	.3750	3-5/8	5
705-V	.3770	3-5/8	5
705-W	.3860	3-3/4	5-1/8
705-25/64**	.3906	3-3/4	5-1/8
705-X	.3970	3-3/4	5-1/8
705-Y	.4040	3-7/8	5-1/4
705-13/32**	.4062	3-7/8	5-1/4
705-Z	.4130	3-7/8	5-1/4
705-27/64**	.4219	3-15/16	5-3/8
705-7/16**	.4375	4-1/16	5-1/2
705-29/64**	.4531	4-3/16	5-5/8
705-15/32**	.4688	4-5/16	5-3/4
705-31/64**	.4844	4-3/8	5-7/8
705-1/2**	.5000	4-1/2	6
705-33/64*	.5156	4-13/16	6-5/8
705-17/32*	.5312	4-13/16	6-5/8
705-35/64*	.5469	4-13/16	6-5/8
705-9/16*	.5625	4-13/16	6-5/8
705-37/64*	.5781	4-13/16	6-5/8
705-19/32*	.5938	5-3/16	7-1/8
705-39/64*	.6094	5-3/16	7-1/8
705-5/8*	.6250	5-3/16	7-1/8
705-41/64*	.6406	5-3/16	7-1/8
705-21/32*	.6562	5-3/16	7-1/8
705-43/64*	.6719	5-5/8	7-5/8
705-11/16*	.6875	5-5/8	7-5/8

* Will not fit 1/2" capacity chuck

** Available in left hand 705LH

Metal Cased Sets

Part #	Qty	Contents
115C	15 Piece	1/16 – 1/2 x 32nds
120C	20 Piece	#61-80 Wire Gauge
126C	26 Piece	A – Z

Part #	Qty	Contents
129C	29 Piece	1/16 – 1/2 x 64ths
160C	60 Piece	#1 – #60
SS150C	115 Piece	1/16 – 1/2 x 64ths, #1 – #60, A – Z

Power Tool: Power Drill, Drill Press

Application: Drill Wood, Low To Medium Steel Alloys

Features: 118° Point, Black Oxide Surface Treatment, Straight Shank

**** Left Hand Drills Also Available (705LH):** Left Hand Drills Are Designed For Use In Left Hand Rotation Multiple Spindle, Gear Driven Drilling Heads, Screw Machine Operations, Lathes & Any Machinery With A Left Hand Rotation. Left Hand Drills Are Also Commonly Used For Drilling Out Broken Or Frozen Bolts.

Jobber Drills



Series USHD | General Purpose | HSS | 135° Split Point

Series US5 | General Purpose | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
US5-60	.0400	11/16	1-5/8
US5-59	.0410	11/16	1-5/8
US5-58	.0420	11/16	1-5/8
US5-57	.0430	3/4	1-3/4
US5-56	.0465	3/4	1-3/4
US5-55	.0520	7/8	1-7/8
US5-54	.0550	7/8	1-7/8
US5-53	.0595	7/8	1-7/8
US5-1/16	.0625	7/8	1-7/8
US5-52	.0635	7/8	1-7/8
US5-51	.0670	1	2
US5-50	.0700	1	2
US5-49	.0730	1	2
US5-48	.0760	1	2
US5-5/64	.0781	1	2
US5-47	.0785	1	2
US5-46	.0810	1-1/8	2-1/8
US5-45	.0820	1-1/8	2-1/8
US5-44	.0860	1-1/8	2-1/8
US5-43	.0890	1-1/4	2-1/4
US5-42	.0935	1-1/4	2-1/4
US5-3/32	.0938	1-1/4	2-1/4
US5-41	.0960	1-3/8	2-3/8
US5-40	.0980	1-3/8	2-3/8
US5-39	.0995	1-3/8	2-3/8
US5-38	.1015	1-7/16	2-1/2
US5-37	.1040	1-7/16	2-1/2
US5-36	.1065	1-7/16	2-1/2
US5-7/64	.1094	1-1/2	2-5/8
US5-35	.1100	1-1/2	2-5/8
US5-34	.1110	1-1/2	2-5/8
US5-33	.1130	1-1/2	2-5/8
US5-32	.1160	1-5/8	2-3/4
US5-31	.1200	1-5/8	2-3/4
US5-1/8	.1250	1-5/8	2-3/4
US5-30	.1285	1-5/8	2-3/4
US5-29	.1360	1-3/4	2-7/8
US5-28	.1405	1-3/4	2-7/8
US5-9/64	.1406	1-3/4	2-7/8
US5-27	.1440	1-7/8	3
US5-26	.1470	1-7/8	3
US5-25	.1495	1-7/8	3
US5-24	.1520	2	3-1/8
US5-23	.1540	2	3-1/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
US5-5/32	.1562	2	3-1/8
US5-22	.1570	2	3-1/8
US5-21	.1590	2-1/8	3-1/4
US5-20	.1610	2-1/8	3-1/4
US5-19	.1660	2-1/8	3-1/4
US5-18	.1695	2-1/8	3-1/4
US5-11/64	.1719	2-1/8	3-1/4
US5-17	.1730	2-3/16	3-3/8
US5-16	.1770	2-3/16	3-3/8
US5-15	.1800	2-3/16	3-3/8
US5-14	.1820	2-3/16	3-3/8
US5-13	.1850	2-5/16	3-1/2
US5-3/16	.1875	2-5/16	3-1/2
US5-12	.1890	2-5/16	3-1/2
US5-11	.1910	2-5/16	3-1/2
US5-10	.1935	2-7/16	3-5/8
US5-9	.1960	2-7/16	3-5/8
US5-8	.1990	2-7/16	3-5/8
US5-7	.2010	2-7/16	3-5/8
US5-13/64	.2031	2-7/16	3-5/8
US5-6	.2040	2-1/2	3-3/4
US5-5	.2055	2-1/2	3-3/4
US5-4	.2090	2-1/2	3-3/4
US5-3	.2130	2-1/2	3-3/4
US5-7/32	.2188	2-1/2	3-3/4
US5-2	.2210	2-5/8	3-7/8
US5-1	.2280	2-5/8	3-7/8
US5-A	.2340	2-5/8	3-7/8
US5-15/64	.2344	2-5/8	3-7/8
US5-B	.2380	2-3/4	4
US5-C	.2420	2-3/4	4
US5-D	.2460	2-3/4	4
US5-1/4/E	.2500	2-3/4	4
US5-F	.2570	2-7/8	4-1/8
US5-G	.2610	2-7/8	4-1/8
US5-17/64	.2656	2-7/8	4-1/8
US5-H	.2660	2-7/8	4-1/8
US5-I	.2720	2-7/8	4-1/8
US5-J	.2770	2-7/8	4-1/8
US5-K	.2810	2-15/16	4-1/4
US5-9/32	.2812	2-15/16	4-1/4
US5-L	.2900	2-15/16	4-1/4
US5-M	.2950	3-1/16	4-3/8
US5-19/64	.2969	3-1/16	4-3/8

135°



USHD

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
US5-N	.3020	3-1/16	4-3/8
US5-5/16	.3125	3-3/16	4-1/2
US5-O	.3160	3-3/16	4-1/2
US5-P	.3230	3-5/16	4-5/8
US5-21/64	.3281	3-5/16	4-3/8
US5-Q	.3320	3-7/16	4-3/4
US5-R	.3390	3-7/16	4-3/4
US5-11/32	.3438	3-7/16	3-3/4
US5-S	.3480	3-1/2	4-7/8
US5-T	.3580	3-1/2	4-7/8
US5-23/64	.3594	3-1/2	4-7/8
US5-U	.3680	3-5/8	5
US5-3/8	.3750	3-5/8	5

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
US5-V	.3770	3-5/8	5
US5-W	.3860	3-3/4	5-1/8
US5-25/64	.3906	3-3/4	5-1/8
US5-X	.3970	3-3/4	5-1/8
US5-Y	.4040	3-7/8	5-1/4
US5-13/32	.4062	3-7/8	5-1/4
US5-Z	.4130	3-7/8	5-1/4
US5-27/64	.4219	3-15/16	5-3/8
US5-7/16	.4375	4-1/16	5-1/2
US5-29/64	.4531	4-3/16	5-5/8
US5-15/32	.4688	4-5/16	5-3/4
US5-31/64	.4844	4-3/8	5-7/8
US5-1/2	.5000	4-1/2	6

* Please specify USHD for split point drills

Metal Cased Sets

Part #	Qty	Contents
P15HD	15 Piece	USHD 1/16 – 1/2 x 32nds
P21HD	21 Piece	USHD 1/16 – 3/8 x 64ths
P29C	29 Piece	US5 1/16 – 1/2 x 64ths
P29C-3/8	29 Piece	US5 & 738 3/8" Shank Drills 1/16 – 3/8 x 64ths
P29HD	29 Piece	USHD 1/16 – 1/2 x 64ths

USHD

Power Tool: Power Drill, Drill Press

Application: Drill Medium To Hard Steel Alloys

Features: Self-Centering 135° Split Point, Black Oxide Surface Treatment, Straight Shank

Advantage: Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

US5

Power Tool: Power Drill, Drill Press

Application: Drill Wood, Low To Medium Steel Alloys

Features: 118° Point, Black Oxide Surface Treatment, Straight Shank

Jobber Drills



Series 700T | Titanium Nitride (TiN) Coated | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
700T-1/16	.0625	7/8	1-7/8
700T-5/64	.0781	1	2
700T-3/32	.0938	1-1/4	2-1/4
700T-7/64	.1094	1-1/2	2-5/8
700T-1/8	.1250	1-5/8	2-3/4
705-9/64	.1406	1-3/5	3-7/8
700T-5/32	.1562	2	3-1/8
700T-11/64	.1719	2-1/8	3-1/4
700T-3/16	.1875	2-5/16	3-1/2
700T-13/64	.2031	2-7/16	3-5/8
700T-7/32	.2188	2-1/2	3-3/4
700T-15/64	.2344	2-5/8	3-7/8
700T-1/4	.2500	2-3/4	4
700T-17/64	.2656	2-7/8	4-1/8
700T-9/32	.2812	2-15/16	4-1/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
700T-19/64	.2969	3-1/16	4-3/8
700T-5/16	.3125	3-3/16	4-1/2
700T-21/64	.3281	3-5/16	4-5/8
700T-11/32	.3438	3-7/16	4-3/4
700T-23/64	.3594	3-1/2	4-7/8
700T-3/8	.3750	3-5/8	5
700T-25/64	.3906	3-3/4	5-1/8
700T-13/32	.4062	3-7/8	5-1/4
700T-27/64	.4219	3-15/16	5-3/8
700T-7/16	.4375	4-1/16	5-1/2
700T-29/64	.4531	4-3/16	5-5/8
700T-15/32	.4688	4-5/16	5-3/4
700T-31/64	.4844	4-3/8	5-7/8
700T-1/2	.5000	4-1/2	6



Power Tool: Drill Press, CNC Machine

Application: Drill Tough Steel Alloys, Cast Iron, Titanium, Stainless Steel, Armor Plate

Features: Titanium Nitride Coated HSS Provides A Surface Hardness In Excess Of 80 Rockwell C Scale, Self-Centering 135° Split Point, Straight Shank

Advantage: Performs Well At High Speeds, TiN Coating Protects Cutting Edge From Abrasion & Heat, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Metric Jobber Drills



Series XL8 | High Performance | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL8-1.0	0.0394	11/16	1-5/8
XL8-1.25	0.0492	7/8	1-7/8
XL8-1.45	0.0571	7/8	1-7/8
XL8-1.5	0.0591	7/8	1-7/8
XL8-1.6	0.0630	7/8	1-7/8
XL8-1.75	0.0689	1	2
XL8-2.0	0.0787	1	2
XL8-2.05	0.0807	1-1/8	2-1/8
XL8-2.3	0.0906	1-1/4	2-1/4
XL8-2.5	0.0984	1-3/8	2-3/8
XL8-2.9	0.1142	1-5/8	2-3/4
XL8-3.0	0.1181	1-5/8	2-3/4
XL8-3.3	0.1299	1	2
XL8-3.5	0.1378	1-3/4	2-7/8
XL8-3.6	0.1417	1-7/8	3
XL8-3.7	0.1457	1-7/8	3
XL8-4.0	0.1575	2-1/8	3-1/4
XL8-4.2	0.1654	2-1/8	3-1/4
XL8-4.5	0.1772	2-3/16	3-3/8
XL8-5.0	0.1969	2-7/16	3-5/8
XL8-5.5	0.2165	2-1/2	3-3/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL8-6.0	0.2362	2-3/4	4
XL8-6.5	0.2559	2-7/8	4-1/8
XL8-6.7	0.2638	2-7/8	4-1/8
XL8-6.8	0.2677	2-7/8	4-1/8
XL8-7.0	0.2756	2-7/8	4-1/8
XL8-7.5	0.2953	3-1/16	4-3/8
XL8-8.0	0.3150	3-3/16	4-1/2
XL8-8.5	0.3346	3-7/16	4-3/4
XL8-8.7	0.3524	3-7/16	4-3/4
XL8-9.0	0.3543	3-1/2	4-7/8
XL8-9.5	0.3740	3-5/8	5
XL8-10.0	0.3937	3-3/4	5-1/8
XL8-10.2	0.4016	3-3/4	5-1/8
XL8-10.5	0.4134	3-7/8	5-1/4
XL8-10.8	0.4252	4-1/16	5-1/2
XL8-11.0	0.4331	4-1/16	5-1/2
XL8-11.5	0.4528	4-3/16	5-5/8
XL8-12.0	0.4724	4-3/8	5-7/8
XL8-12.5	0.4921	4-1/2	6
XL8-13.0	0.5118	4-1/2	6

135°



Metal Cased Sets

Part #	Qty	Contents
M25-XL8	25 Piece	1-13.0mm x 0.5mm

Dispensers & Displays

Part #	Description	Contents
D1-XL8	Dispenser	223 Piece

Power Tool: Power Drill, Drill Press, CNC Machine

Application: Drill Steel, Stainless Steel, Titanium Alloys, Hard To Drill Materials

Features: Self-Centering 135° Split Point, Premium HSS, NoMo Surface Treatment, Tapered Web Geometry, Straight Shank

Advantage: Drill Stainless, Long Tool Life & Smooth Drilling, Penetrate Faster Than Cobalt - Less Operator Fatigue, Flexible - Less Likely To Chip Or Snap, Precision Drilling - Split Point Prevents Drill From Walking On Workpiece

Metric Jobber Drills



Series 708 | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
708-.25	.0098	5/64	3/4
708-.3	.0118	3/32	3/4
708-.32	.0126	3/32	3/4
708-.35	.0138	1/8	3/4
708-.4	.0157	3/16	3/4
708-.45	.0177	3/16	7/8
708-.5	.0197	3/16	7/8
708-.55	.0217	1/4	1
708-.6	.0236	5/16	1-1/8
708-.65	.0256	3/8	1-1/4
708-.7	.0276	3/8	1-1/4
708-.75	.0295	1/2	1-3/8
708-.8	.0315	1/2	1-3/8
708-.85	.0335	5/8	1-1/2
708-.9	.0354	5/8	1-1/2
708-.95	.0374	5/8	1-1/2
708-1.0	.0394	11/16	1-5/8
708-1.05	.0413	11/16	1-5/8
708-1.1	.0433	3/4	1-3/4
708-1.15	.0453	3/4	1-3/4
708-1.2	.0472	7/8	1-7/8
708-1.25	.0492	7/8	1-7/8
708-1.3	.0512	7/8	1-7/8
708-1.35	.0531	7/8	1-7/8
708-1.4	.0551	7/8	1-7/8
708-1.45	.0571	7/8	1-7/8
708-1.5	.0591	7/8	1-7/8
708-1.55	.0610	7/8	1-7/8
708-1.6	.0630	7/8	1-7/8
708-1.65	.0650	1	2
708-1.7	.0669	1	2
708-1.75	.0689	1	2
708-1.8	.0709	1	2
708-1.85	.0782	1	2
708-1.9	.0748	1	2
708-1.95	.0768	1	2
708-2.0	.0787	1	2
708-2.05	.0807	1-1/8	2-1/8
708-2.1	.0827	1-1/8	2-1/8
708-2.15	.0846	1-1/8	2-1/8
708-2.2	.0866	1-1/4	2-1/4
708-2.25	.0886	1-1/4	2-1/4
708-2.3	.0906	1-1/4	2-1/4
708-2.35	.0925	1-1/4	2-1/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
708-2.4	.0945	1-3/8	2-3/8
708-2.45	.0965	1-3/8	2-3/8
708-2.5	.0984	1-3/8	2-3/8
708-2.6	.1024	1-7/16	2-1/2
708-2.7	.1063	1-7/16	2-1/2
708-2.8	.1102	1-1/2	2-5/8
708-2.9	.1142	1-5/8	2-3/4
708-3.0	.1181	1-5/8	2-3/4
708-3.1	.1220	1-5/8	2-3/4
708-3.2	.1260	1-5/8	2-3/4
708-3.3	.1299	1-3/4	2-7/8
708-3.4	.1339	1-3/4	2-7/8
708-3.5	.1378	1-3/4	2-7/8
708-3.6	.1417	1-7/8	3
708-3.7	.1457	1-7/8	3
708-3.8	.1496	1-7/8	3
708-3.9	.1535	2	3-1/8
708-4.0	.1575	2-1/8	3-1/4
708-4.1	.1614	2-1/8	3-1/4
708-4.2	.1654	2-1/8	3-1/4
708-4.3	.1693	2-1/8	3-1/4
708-4.4	.1732	2-3/16	3-3/8
708-4.5	.1772	2-3/16	3-3/8
708-4.6	.1811	2-3/16	3-3/8
708-4.7	.1850	2-5/16	3-1/2
708-4.8	.1890	2-5/16	3-1/2
708-4.9	.1929	2-7/16	3-5/8
708-5.0	.1969	2-7/16	3-5/8
708-5.1	.2008	2-7/16	3-5/8
708-5.2	.2047	2-1/2	3-3/4
708-5.3	.2087	2-1/2	3-3/4
708-5.4	.2126	2-1/2	3-3/4
708-5.5	.2165	2-1/2	3-3/4
708-5.6	.2205	2-5/8	3-7/8
708-5.7	.2244	2-5/8	3-7/8
708-5.8	.2283	2-5/8	3-7/8
708-5.9	.2323	2-5/8	3-7/8
708-6.0	.2362	2-3/4	4
708-6.1	.2402	2-3/4	4
708-6.2	.2441	2-3/4	4
708-6.3	.2480	2-3/4	4
708-6.4	.2520	2-7/8	4-1/8
708-6.5	.2559	2-7/8	4-1/8
708-6.6	.2598	2-7/8	4-1/8



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
708-6.7	.2638	2-7/8	4-1/8
708-6.8	.2677	2-7/8	4-1/8
708-6.9	.2717	2-7/8	4-1/8
708-7.0	.2756	2-7/8	4-1/8
708-7.1	.2795	2-15/16	4-1/4
708-7.2	.2835	2-15/16	4-1/4
708-7.3	.2874	2-15/16	4-1/4
708-7.4	.2913	3-1/16	4-3/8
708-7.5	.2953	3-1/16	4-3/8
708-7.6	.2992	3-1/16	4-3/8
708-7.7	.3031	3-3/16	4-1/2
708-7.8	.3071	3-3/16	4-1/2
708-7.9	.3110	3-3/16	4-1/2
708-8.0	.3150	3-3/16	4-1/2
708-8.1	.3189	3-5/16	4-5/8
708-8.2	.3228	3-5/16	4-5/8
708-8.3	.3268	3-5/16	4-5/8
708-8.4	.3307	3-7/16	4-3/4
708-8.5	.3346	3-7/16	4-3/4
708-8.6	.3386	3-7/16	4-3/4
708-8.7	.3425	3-7/16	4-3/4
708-8.8	.3465	3-1/2	4-7/8
708-8.9	.3504	3-1/2	4-7/8
708-9.0	.3543	3-1/2	4-7/8
708-9.1	.3583	3-1/2	4-7/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
708-9.2	.3622	3-5/8	5
708-9.3	.3661	3-5/8	5
708-9.4	.3701	3-5/8	5
708-9.5	.3740	3-5/8	5
708-9.6	.3780	3-3/4	5-1/8
708-9.7	.3819	3-3/4	5-1/8
708-9.8	.3858	3-3/4	5-1/8
708-9.9	.3898	3-3/4	5-1/8
708-10.0	.3937	3-3/4	5-1/8
708-10.2	.4016	3-3/4	5-1/8
708-10.5	.4134	3-7/8	5-1/4
708-10.8	.4252	4-1/16	5-1/2
708-11.0	.4331	4-1/16	5-1/2
708-11.2	.4409	4-1/16	5-1/2
708-11.5	.4528	4-3/16	5-5/8
708-11.8	.4646	4-3/8	5-3/4
708-12.0	.4724	4-3/8	5-7/8
708-12.2	.4803	4-3/8	5-7/8
708-12.5	.4921	4-1/2	6
708-12.8	.5039	4-1/2	6
708-13.0*	.5118	4-1/2	6
708-14.0*	.5512	4-13/16	6-5/8
708-15.5*	.6102	5-3/16	7-1/8
708-16.5*	.6496	5-3/16	7-1/8
708-17.5*	.6890	5-5/8	7-5/8

* Metric drills larger than 13mm will not fit into 1/2" drill chucks

Power Tool: Power Drill, Drill Press

Application: Drill Wood, Low To Medium Steel Alloys

Features: Metric Sizes, 118° Point, Black Oxide Surface Treatment, Straight Shank

Silver & Deming Drills (s&D)



Series XL12 | High Performance | 1/2" Flatted Shank | HSS | 118° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL12-33/64	.5156	3-1/8	6
XL12-17/32	.5312	3-1/8	6
XL12-35/64	.5469	3-1/8	6
XL12-9/16	.5625	3-1/8	6
XL12-37/64	.5781	3-1/8	6
XL12-19/32	.5938	3-1/8	6
XL12-39/64	.6094	3-1/8	6
XL12-5/8	.6250	3-1/8	6
XL12-41/64	.6406	3-1/8	6
XL12-21/32	.6562	3-1/8	6
XL12-43/64	.6719	3-1/8	6
XL12-11/16	.6875	3-1/8	6
XL12-45/64	.7031	3-1/8	6
XL12-23/32	.7188	3-1/8	6
XL12-47/64	.7344	3-1/8	6
XL12-3/4	.7500	3-1/8	6
XL12-49/64	.7656	3-1/8	6
XL12-25/32	.7812	3-1/8	6
XL12-51/64	.7969	3-1/8	6
XL12-13/16	.8125	3-1/8	6
XL12-53/64	.8281	3-1/8	6
XL12-27/32	.8438	3-1/8	6
XL12-55/64	.8594	3-1/8	6
XL12-7/8	.8750	3-1/8	6
XL12-57/64	.8906	3-1/8	6
XL12-29/32	.9062	3-1/8	6
XL12-59/64	.9219	3-1/8	6
XL12-15/16	.9375	3-1/8	6
XL12-61/64	.9531	3-1/8	6
XL12-31/32	.9688	3-1/8	6
XL12-63/64	.9844	3-1/8	6



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL12-1	1.0000	3-1/8	6
XL12-1-1/16	1.0625	3-1/8	6
XL12-1-1/8	1.1250	3-1/8	6
XL12-1-3/16	1.1875	3-1/8	6
XL12-1-1/4	1.2500	3-1/8	6
XL12-1-5/16	1.3125	3-1/8	6
XL12-1-3/8	1.3750	3-1/8	6
XL12-1-1/2	1.5000	3-1/8	6

Drill Sets

Part #	Qty	Contents
XL12-8P	8 Piece	9/16 – 1" x 16ths
XL12-33	33 Piece	33/64 – 1" x 16ths



Power Tool: Drill Press, Power Drill

Application: Drill Steel, Stainless Steel, Tough Alloys

Features: Engineered With Superior Strength & Durability, Premium High Speed Steel, Black & Bright Surface Treatment, 118° Split Point, 3 Flatted Shank

Advantage: Longer Tool Life & Smoother Drilling Than Standard S&D Drills, Drill Tougher Materials, Self-Centering Split Point Will Not Walk On Workpiece, Secure Fit In Drill Chuck

Note: S&D Drills Require Heavy Feed Pressure To Penetrate In Handheld Drilling Applications. See CT7 Carbide Tipped Hole Cutters For Large Diameter Drilling Alternative.

Important: S&D Drills Should Not Be Used To Enlarge Holes. See Reamers Section

Silver & Deming Drills (S&D)



Series 712CO | Cobalt | 1/2" Shank | 118° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
712CO-17/32	.5312	3-1/8	6
712CO-9/16	.5626	3-1/8	6
712CO-19/32	.5938	3-1/8	6
712CO-5/8	.6250	3-1/8	6
712CO-21/32	.6562	3-1/8	6
712CO-11/16	.6875	3-1/8	6
712CO-23/32	.7188	3-1/8	6
712CO-3/4	.7500	3-1/8	6
712CO-25/32	.7812	3-1/8	6
712CO-13/16	.8125	3-1/8	6
712CO-27/32	.8438	3-1/8	6
712CO-7/8	.8750	3-1/8	6
712CO-29/32	.9062	3-1/8	6
712CO-15/16	.9375	3-1/8	6
712CO-31/32	.9688	3-1/8	6
712CO-1	1.000	3-1/8	6
712CO-1-1/16	1.0625	3-1/8	6
712CO-1-1/8	1.1250	3-1/8	6
712CO-1-3/16	1.1875	3-1/8	6
712CO-1-1/4	1.2500	3-1/8	6
712CO-1-5/16	1.3125	3-1/8	6
712CO-1-3/8	1.3750	3-1/8	6
712CO-1-7/16	1.4375	3-1/8	6
712CO-1-1/2	1.5000	3-1/8	6



Power Tool: Drill Press, Power Drill

Application: Stainless Steel, Tough Alloys

Features: Premium Grade Cobalt Steel, 118° Split Point, Straight Shank

Advantage: Cobalt Steel Provides High Red Hardness For Extreme Heat Resistance When Drilling Stainless Steel & Tough Alloys, Self-Centering Split Point Will Not Walk On Workpiece

Note: S&D Drills Require Heavy Feed Pressure To Penetrate In Handheld Drilling Applications. See CT7 Carbide Tipped Hole Cutters For Large Diameter Drilling Alternative.

Important: S&D Drills Should Not Be Used To Enlarge Holes. See Reamers Section

Silver & Deming Drills (S&D)



Series XG12 | Heavy Duty | Black & Gold | 1/2" Flatted Shank | HSS | 118° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XG12-33/64	.5156	3-1/8	6
XG12-17/32	.5312	3-1/8	6
XG12-35/64	.5469	3-1/8	6
XG12-9/16	.5625	3-1/8	6
XG12-37/64	.5781	3-1/8	6
XG12-19/32	.5932	3-1/8	6
XG12-39/64	.6094	3-1/8	6
XG12-5/8	.6250	3-1/8	6
XG12-41/64	.6406	3-1/8	6
XG12-21/32	.6562	3-1/8	6
XG12-43/64	.6719	3-1/8	6
XG12-11/16	.6875	3-1/8	6
XG12-45/64	.7031	3-1/8	6
XG12-23/32	.7188	3-1/8	6
XG12-47/64	.7344	3-1/8	6
XG12-3/4	.7500	3-1/8	6
XG12-49/64	.7656	3-1/8	6
XG12-25/32	.7812	3-1/8	6
XG12-51/64	.7969	3-1/8	6
XG12-13/16	.8125	3-1/8	6
XG12-53/64	.8281	3-1/8	6
XG12-27/32	.8438	3-1/8	6

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XG12-55/64	.8594	3-1/8	6
XG12-7/8	.8750	3-1/8	6
XG12-57/64	.8906	3-1/8	6
XG12-29/32	.9062	3-1/8	6
XG12-59/64	.9219	3-1/8	6
XG12-15/16	.9375	3-1/8	6
XG12-61/64	.9531	3-1/8	6
XG12-31/32	.9688	3-1/8	6
XG12-63/64	.9844	3-1/8	6
XG12-1	1.0000	3-1/8	6
XG12-1-1/16	1.0625	3-1/8	6
XG12-1-1/8	1.1250	3-1/8	6
XG12-1-3/16	1.1875	3-1/8	6
XG12-1-1/4	1.2500	3-1/8	6
XG12-1-5/16	1.3125	3-1/8	6
XG12-1-3/8	1.3750	3-1/8	6
XG12-1-1/2	1.5000	3-1/8	6

118°



Drill Sets

Part #	Qty	Contents
XG12-8P	8 Piece	9/16 - 1" x 16ths



Power Tool: Drill Press, Power Drill

Application: Drill Medium To Hard Steel Alloys

Features: BlackGold Surface Treatment, 118° Split Point, 3 Flatted Shank

Advantage: Longer Tool Life & Smoother Drilling Than Standard S&D Drills, Drill Tougher Materials, Self-Centering Split Point Will Not Walk On Workpiece, Secure Fit In Drill Chuck

Note: S&D Drills Require Heavy Feed Pressure To Penetrate In Handheld Drilling Applications. See CT7 Carbide Tipped Hole Cutters For Large Diameter Drilling Alternative.

Important: S&D Drills Should Not Be Used To Enlarge Holes. See Reamers Section

Silver & Deming Drills (s&D)



Series 712 | General Purpose | 1/2" Shank | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
712-33/64	.5156	3-1/8	6
712-17/32	.5312	3-1/8	6
712-35/64	.5469	3-1/8	6
712-9/16	.5625	3-1/8	6
712-37/64	.5781	3-1/8	6
712-19/32	.5938	3-1/8	6
712-39/64	.6094	3-1/8	6
712-5/8	.6250	3-1/8	6
712-41/64	.6406	3-1/8	6
712-21/32	.6562	3-1/8	6
712-43/64	.6719	3-1/8	6
712-11/16	.6875	3-1/8	6
712-45/64	.7031	3-1/8	6
712-23/32	.7188	3-1/8	6
712-47/64	.7344	3-1/8	6
712-3/4	.7500	3-1/8	6
712-49/64	.7656	3-1/8	6
712-25/32	.7812	3-1/8	6
712-51/64	.7969	3-1/8	6
712-13/16	.8125	3-1/8	6
712-53/64	.8281	3-1/8	6
712-27/32	.8438	3-1/8	6
712-55/64	.8594	3-1/8	6
712-7/8	.8750	3-1/8	6
712-57/64	.8906	3-1/8	6
712-29/32	.9062	3-1/8	6
712-59/64	.9219	3-1/8	6
712-15/16	.9375	3-1/8	6
712-61/64	.9531	3-1/8	6
712-31/32	.9688	3-1/8	6

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
712-63/64	.9844	3-1/8	6
712-1	1.0000	3-1/8	6
712-1-1/64	1.0156	3-1/8	6
712-1-1/32	1.0312	3-1/8	6
712-1-3/64	1.0469	3-1/8	6
712-1-1/16	1.0625	3-1/8	6
712-1-5/64	1.0781	3-1/8	6
712-1-3/32	1.0938	3-1/8	6
712-1-7/64	1.1094	3-1/8	6
712-1-1/8	1.1250	3-1/8	6
712-1-9/64	1.1406	3-1/8	6
712-1-5/32	1.1562	3-1/8	6
712-1-11/64	1.1719	3-1/8	6
712-1-3/16	1.1875	3-1/8	6
712-1-13/64	1.2031	3-1/8	6
712-1-7/32	1.2188	3-1/8	6
712-1-15/64	1.2344	3-1/8	6
712-1-1/4	1.2500	3-1/8	6
712-1-9/32	1.2812	3-1/8	6
712-1-5/16	1.3125	3-1/8	6
712-1-3/8	1.3750	3-1/8	6
712-1-7/16	1.4375	3-1/8	6
712-1-1/2	1.5000	3-1/8	6

Drill Sets

Part #	Qty	Contents
712-8P	8 Piece	9/16 – 1" x 16ths
712-33	33 Piece	33/64 – 1" x 16ths



Power Tool: Drill Press, Power Drill

Application: Drill Low To Medium Strength Steel

Features: 118° Point, Straight Shank

Note: Best Used In Drill Press Since Drill Point Is Not Self-Centering

Important: S&D Drills Should Not Be Used To Enlarge Holes. See Reamers Section

Silver & Deming Drills (S&D)



Series US12 | General Purpose | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
US12-33/64	.5156	3-1/8	6	US12-55/64	.8594	3-1/8	6
US12-17/32	.5312	3-1/8	6	US12-7/8	.8750	3-1/8	6
US12-35/64	.5469	3-1/8	6	US12-57/64	.8906	3-1/8	6
US12-9/16	.5625	3-1/8	6	US12-29/32	.9062	3-1/8	6
US12-37/64	.5781	3-1/8	6	US12-59/64	.9219	3-1/8	6
US12-19/32	.5938	3-1/8	6	US12-15/16	.9375	3-1/8	6
US12-39/64	.6094	3-1/8	6	US12-61/64	.9531	3-1/8	6
US12-5/8	.6250	3-1/8	6	US12-31/32	.9688	3-1/8	6
US12-41/64	.6406	3-1/8	6	US12-63/64	.9844	3-1/8	6
US12-21/32	.6562	3-1/8	6	US12-1	1.0000	3-1/8	6
US12-43/64	.6719	3-1/8	6	US12-1-1/16	1.0625	3-1/8	6
US12-11/16	.6875	3-1/8	6	US12-1-1/8	1.1250	3-1/8	6
US12-45/64	.7031	3-1/8	6	US12-1-3/16	1.1875	3-1/8	6
US12-23/32	.7188	3-1/8	6	US12-1-1/4	1.2500	3-1/8	6
US12-47/64	.7344	3-1/8	6	US12-1-5/16	1.3125	3-1/8	6
US12-3/4	.7500	3-1/8	6	US12-1-3/8	1.3750	3-1/8	6
US12-49/64	.7656	3-1/8	6	US12-1-1/2	1.5	3-1/8	6
US12-25/32	.7812	3-1/8	6				
US12-51/64	.7969	3-1/8	6				
US12-13/16	.8125	3-1/8	6				
US12-53/64	.8281	3-1/8	6				
US12-27/32	.8438	3-1/8	6				

Drill Sets

Part #	Qty	Contents
US12-8P	8 Piece	9/16 – 1" x 16ths



Power Tool: Drill Press, Power Drill

Application: Drill Low To Medium Strength Steel, Wood

Features: 118° Point, Straight Shank

Note: Best Used In Drill Press Since Drill Point Is Not Self-Centering

Important: S&D Drills Should Not Be Used To Enlarge Holes. See Reamers Section

Longboy Drills



Series 1200 | 12" Overall Length | HSS

Series 1212 | 12" Overall Length | 1/2" Shank | HSS

1200

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1200-1/8	.1250	9	12
1200-9/64	.1406	9	12
1200-5/32	.1562	9	12
1200-11/64	.1719	9	12
1200-3/16	.1875	9	12
1200-13/64	.2031	9	12
1200-7/32	.2187	9	12
1200-15/64	.2344	9	12
1200-1/4	.2500	9	12
1200-17/64	.2656	9	12
1200-9/32	.2812	9	12
1200-19/64	.2969	9	12
1200-5/16	.3125	9	12
1200-21/64	.3281	9	12
1200-11/32	.3437	9	12
1200-23/64	.3594	9	12
1200-3/8	.3750	9	12
1200-25/64	.3906	9	12
1200-13/32	.4062	9	12
1200-27/64	.4219	9	12
1200-7/16	.4375	9	12
1200-29/64	.4531	9	12
1200-15/32	.4687	9	12
1200-31/64	.4844	9	12
1200-1/2	.5000	9	12
1200-17/32	.5312	9	12
1200-9/16	.5625	9	12
1200-5/8	.6250	9	12
1200-3/4	.7500	9	12

1212 - Reduced Shank

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1212-17/32	.5312	9	12
1212-9/16	.5625	9	12
1212-5/8	.6250	9	12
1212-3/4	.7500	9	12
1212-7/8	.8750	9	12
1212-1	1.0000	9	12



Power Tool: Power Drill

Application: Aluminum, Wood, Low To Medium Steel

Features: 118° Point, Long Length

Advantage: For Deep Drilling Applications (Max Flute Length: 9")

Note: Sizes 17/32" & Larger Will Not Fit In 1/2" Drill Chuck

1200

Longboy Drills



Series 1800 | 18" Overall Length | HSS

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1800-3/16	.1875	13	18	1800-47/64	.7344	13	18
1800-7/32	.2188	13	18	1800-3/4	.7500	13	18
1800-1/4	.2500	13	18	1800-49/64	.7656	13	18
1800-5/16	.3125	13	18	1800-25/32	.7812	13	18
1800-11/32	.3438	13	18	1800-51/64	.7969	13	18
1800-3/8	.3750	13	18	1800-13/16	.8125	13	18
1800-13/32	.4062	13	18	1800-53/64	.8281	13	18
1800-7/16	.4375	13	18	1800-27/32	.8438	13	18
1800-15/32	.4688	13	18	1800-55/64	.8594	13	18
1800-1/2	.5000	13	18	1800-7/8	.8750	13	18
1800-17/32	.5312	13	18	1800-57/64	.8906	13	18
1800-9/16	.5625	13	18	1800-29/32	.9062	13	18
1800-5/8	.6250	13	18	1800-59/64	.9219	13	18
1800-41/64	.6406	13	18	1800-15/16	.9375	13	18
1800-21/32	.6562	13	18	1800-61/64	.9531	13	18
1800-43/64	.6719	13	18	1800-31/32	.9688	13	18
1800-11/16	.6875	13	18	1800-63/64	.9844	13	18
1800-45/64	.7031	13	18	1800-1	1.0000	13	18
1800-23/32	.7188	13	18				



Power Tool: Power Drill

Application: Aluminum, Wood, Low To Medium Steel

Features: 118° Point, Straight Shank, Long Length

Advantage: For Deep Drilling Applications (Max Flute Length: 13")

Note: Sizes 17/32" & Larger Will Not Fit Into 1/2" Drill Chucks

Aircraft Extension Drills



Series 7006 | 6" Overall Length | HSS | 135° Split Point

Series CS6X | 6" Overall Length | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7006-60	.0400	11/16	6
7006-59	.0410	11/16	6
7006-58	.0420	11/16	6
7006-57	.0430	3/4	6
7006-56	.0465	3/4	6
7006-3/64	.0469	3/4	6
7006-55	.0520	7/8	6
7006-54	.0550	7/8	6
7006-53	.0595	7/8	6
7006-1/16*	.0625	7/8	6
7006-52	.0635	7/8	6
7006-51	.0670	1	6
7006-50	.0700	1	6
7006-49	.0730	1	6
7006-48	.0760	1	6
7006-5/64*	.0781	1	6
7006-47	.0785	1	6
7006-46	.0810	1-1/8	6
7006-45	.0820	1-1/8	6
7006-44	.0860	1-1/8	6
7006-43	.0890	1-1/4	6
7006-42	.0935	1-1/4	6
7006-3/32*	.0938	1-1/4	6
7006-41	.0960	1-3/8	6
7006-40*	.0980	1-3/8	6
7006-39	.0995	1-3/8	6
7006-38	.1015	1-7/16	6
7006-37	.1040	1-7/16	6
7006-36	.1065	1-7/16	6
7006-7/64*	.1094	1-1/2	6
7006-35	.1100	1-1/2	6
7006-34	.1110	1-1/2	6

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7006-33	.1130	1-1/2	6
7006-32	.1160	1-5/8	6
7006-31	.1200	1-5/8	6
7006-1/8*	.1250	1-5/8	6
7006-30*	.1285	1-5/8	6
7006-29*	.1360	1-3/4	6
7006-28	.1405	1-3/4	6
7006-9/64*	.1406	1-3/4	6
7006-27	.1440	1-7/8	6
7006-26	.1470	1-7/8	6
7006-25	.1495	1-7/8	6
7006-24	.1520	2	6
7006-23	.1540	2	6
7006-5/32*	.1562	2	6
7006-22	.1570	2	6
7006-21*	.1590	2-1/8	6
7006-20*	.1610	2-1/8	6
7006-19	.1660	2-1/8	6
7006-18	.1695	2-1/8	6
7006-11/64*	.1719	2-1/8	6
7006-17	.1730	2-3/16	6
7006-16	.1770	2-3/16	6
7006-15	.1800	2-3/16	6
7006-14	.1820	2-3/16	6
7006-13	.1850	2-5/16	6
7006-3/16*	.1875	2-5/16	6
7006-12	.1890	2-5/16	6
7006-11*	.1910	2-5/16	6
7006-10*	.1935	2-7/16	6
7006-9	.1960	2-7/16	6
7006-8	.1990	2-7/16	6
7006-7	.2010	2-7/16	6



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7006-13/64	.2031	2-7/16	6
7006-6	.2040	2-1/2	6
7006-5	.2055	2-1/2	6
7006-4	.2090	2-1/2	6
7006-3	.2130	2-1/2	6
7006-7/32*	.2188	2-1/2	6
7006-2	.2210	2-5/8	6
7006-1*	.2280	2-5/8	6
7006-A	.2340	2-5/8	6
7006-15/64*	.2344	2-5/8	6

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7006-B	.2380	2-3/4	6
7006-C	.2420	2-3/4	6
7006-D	.2460	2-3/4	6
7006-1/4*	.2500	2-3/4	6
7006-E	.2500	2-3/4	6
7006-F	.2570	2-7/8	6
7006-9/32*	.2812	2-15/16	6
7006-5/16*	.3125	3-3/16	6
7006-3/8*	.3750	3-5/8	6

*CS6X Economical Series available from 1/8 to 1/2"

Power Tool: Power Drill

Application: Drill Aluminum, Low To Medium Steel Alloys

Features: 135° Self-Centering Split Point, Black Oxide Surface Treatment, Spring Tempered Shank

Advantage: Engineered For Drilling Holes In Aircraft Assembly Work Where Long Reach Is Needed. Flexible Shank Prevents Permanent Bending When Drilling holes Not In Direct Alignment.

Note: Flute Length Is Same As Jobber Drill Length

Aircraft Extension Drills



Series 7012 | 12" Overall Length | HSS | 135° Split Point

Series CS12X | 12" Overall Length | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7012-60	.0400	11/16	12
7012-59	.0410	11/16	12
7012-58	.0420	11/16	12
7012-57	.0430	3/4	12
7012-56	.0465	3/4	12
7012-3/64	.0469	3/4	12
7012-55	.0520	7/8	12
7012-54	.0550	7/8	12
7012-53	.0595	7/8	12
7012-1/16	.0625	7/8	12
7012-52	.0635	7/8	12
7012-51	.0670	1	12
7012-50	.0700	1	12
7012-49	.0730	1	12
7012-48	.0760	1	12
7012-5/64	.0781	1	12
7012-47	.0785	1	12
7012-46	.0810	1-1/8	12
7012-45	.0820	1-1/8	12
7012-44	.0860	1-1/8	12
7012-43	.0890	1-1/4	12
7012-42	.0935	1-1/4	12
7012-3/32	.0938	1-1/4	12
7012-41	.0960	1-3/8	12
7012-40*	.0980	1-3/8	12
7012-39	.0995	1-3/8	12
7012-38	.1015	1-7/16	12
7012-37	.1040	1-7/16	12
7012-36	.1065	1-7/16	12
7012-7/64	.1094	1-1/2	12
7012-35	.1100	1-1/2	12
7012-34	.1110	1-1/2	12

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7012-33	.1130	1-1/2	12
7012-32	.1160	1-5/8	12
7012-31	.1200	1-5/8	12
7012-1/8*	.1250	1-5/8	12
7012-30*	.1285	1-5/8	12
7012-29*	.1360	1-3/4	12
7012-28	.1405	1-3/4	12
7012-9/64	.1406	1-3/4	12
7012-27	.1440	1-7/8	12
7012-26	.1470	1-7/8	12
7012-25	.1495	1-7/8	12
7012-24	.1520	2	12
7012-23	.1540	2	12
7012-5/32	.1562	2	12
7012-22	.1570	2	12
7012-21*	.1590	2-1/8	12
7012-20*	.1610	2-1/8	12
7012-19	.1660	2-1/8	12
7012-18	.1695	2-1/8	12
7012-11/64	.1719	2-1/8	12
7012-17	.1730	2-3/16	12
7012-16	.1770	2-3/16	12
7012-15	.1800	2-3/16	12
7012-14	.1820	2-3/16	12
7012-13	.1850	2-5/16	12
7012-3/16*	.1875	2-5/16	12
7012-12	.1890	2-5/16	12
7012-11*	.1910	2-5/16	12
7012-10*	.1935	2-7/16	12
7012-9	.1960	2-7/16	12
7012-8	.1990	2-7/16	12
7012-7	.2010	2-7/16	12



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7012-13/64	.2031	2-7/16	12
7012-6	.2040	2-1/2	12
7012-5	.2055	2-1/2	12
7012-4	.2090	2-1/2	12
7012-3	.2130	2-1/2	12
7012-7/32	.2188	2-1/2	12
7012-2	.2210	2-5/8	12
7012-1*	.2280	2-5/8	12
7012-15/64	.2344	2-5/8	12
7012-1/4*	.2500	2-3/4	12
7012-17/64	.2656	2-7/8	12
7012-9/32	.2812	2-15/16	12
7012-19/64	.2969	3-1/16	12

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
7012-5/16*	.3125	3-3/16	12
7012-21/64	.3281	3-5/16	12
7012-11/32	.3438	3-7/16	12
7012-23/64	.3594	3-1/2	12
7012-3/8*	.3750	3-5/8	12
7012-25/64	.3906	3-3/4	12
7012-13/32	.4062	3-7/8	12
7012-27/64	.4219	3-15/16	12
7012-7/16*	.4375	4-1/16	12
7012-29/64	.4531	4-3/16	12
7012-15/32	.4688	4-5/16	12
7012-31/64	.4844	4-3/8	12
7012-1/2*	.5000	4-1/2	12

*CS12X Economical Series available from 1/8 to 1/2"

Power Tool: Power Drill

Application: Drill Aluminum, Low Medium Steel Alloys

Features: 135° Self Centering Split Point, 12" Length, Spring Tempered Shank, Black Oxide Surface Treatment

Advantage: Engineered For Drilling Holes In Aircraft Assembly Work Where Long Reach Is Needed, Flexible Shank Prevents Permanent Bending When Drilling Holes In Not In Alignment

Note: Flute Length Is Same As Jobber Drill Length

Screw Machine Drills (Stubby)



Series 1705 | Short Flute & Overall Length | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705-60*	.0400	1/2	1-3/8
1705-59*	.0410	1/2	1-3/8
1705-58*	.0420	1/2	1-3/8
1705-57*	.0430	1/2	1-3/8
1705-56*	.0465	1/2	1-3/8
1705-3/64*	.0469	1/2	1-3/8
1705-55*	.0520	5/8	1-5/8
1705-54*	.0550	5/8	1-5/8
1705-53*	.0595	5/8	1-5/8
1705-1/16	.0625	5/8	1-5/8
1705-52	.0635	11/16	1-11/16
1705-51	.0670	11/16	1-11/16
1705-50	.0700	11/16	1-11/16
1705-49	.0730	11/16	1-11/16
1705-48	.0760	11/16	1-11/16
1705-5/64	.0781	11/16	1-11/16
1705-47	.0785	11/16	1-11/16
1705-46	.0810	3/4	1-3/4
1705-45	.0820	3/4	1-3/4
1705-44	.0860	3/4	1-3/4
1705-43	.0890	3/4	1-3/4
1705-42	.0935	3/4	1-3/4
1705-3/32	.0938	3/4	1-3/4
1705-41	.0960	13/16	1-13/16
1705-40	.0980	13/16	1-13/16
1705-39	.0995	13/16	1-13/16
1705-38	.1015	13/16	1-13/16
1705-37	.1040	13/16	1-13/16
1705-36	.1065	13/16	1-13/16
1705-7/64	.1094	13/16	1-13/16
1705-35	.1100	7/8	1-7/8
1705-34	.1110	7/8	1-7/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705-33	.1130	7/8	1-7/8
1705-32	.1160	7/8	1-7/8
1705-31	.1200	7/8	1-7/8
1705-1/8	.1250	7/8	1-7/8
1705-30	.1285	15/16	1-15/16
1705-29	.1360	15/16	1-15/16
1705-28	.1405	15/16	1-15/16
1705-9/64	.1406	15/16	1-15/16
1705-27	.1440	1	2-1/16
1705-26	.1470	1	2-1/16
1705-25	.1495	1	2-1/16
1705-24	.1520	1	2-1/16
1705-23	.1540	1	2-1/16
1705-5/32	.1562	1	2-1/16
1705-22	.1570	1-1/16	2-1/8
1705-21	.1590	1-1/16	2-1/8
1705-20	.1610	1-1/16	2-1/8
1705-19	.1660	1-1/16	2-1/8
1705-18	.1695	1-1/16	2-1/8
1705-11/64	.1719	1-1/16	2-1/8
1705-17	.1730	1-1/8	2-3/16
1705-16	.1770	1-1/8	2-3/16
1705-15	.1800	1-1/8	2-3/16
1705-14	.1820	1-1/8	2-3/16
1705-13	.1650	1-1/8	2-3/16
1705-3/16	.1875	1-1/8	2-3/16
1705-12	.1890	1-3/16	2-1/4
1705-11	.1910	1-3/16	2-1/4
1705-10	.1935	1-3/16	2-1/4
1705-9	.1960	1-3/16	2-1/4
1705-8	.1990	1-3/16	2-1/4
1705-7	.2010	1-3/16	2-1/4

135°



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705-13/64	.2031	1-3/16	2-1/4
1705-6	.2040	1-1/4	2-3/8
1705-5	.2055	1-1/4	2-3/8
1705-4	.2090	1-1/4	2-3/8
1705-3	.2130	1-1/4	2-3/8
1705-7/32	.2188	3-1/8	2-3/8
1705-2	.2210	1-5/16	2-7/16
1705-1	.2280	1-5/16	2-7/16
1705-A	.2340	1-5/16	2-7/16
1705-15/64	.2344	1-5/16	2-7/16
1705-B	.2380	1-3/8	2-1/2
1705-C	.2420	1-3/8	2-1/2
1705-D	.2460	1-3/8	1-1/2
1705-1/4/E	.2500	1-7/16	2-5/8
1705-F	.2570	1-7/16	2-5/8
1705-G	.2610	1-7/16	2-5/8
1705-17/64	.2656	1-7/16	2-5/8
1705-H	.2660	1-1/2	2-11/16
1705-I	.2720	1-1/2	2-11/16
1705-J	.2770	1-1/2	2-11/16
1705-K	.2810	1-1/2	2-11/16
1705-9/32	.2812	1-1/2	2-11/16
1705-L	.2900	1-9/16	2-3/4
1705-M	.2950	1-9/16	2-3/4
1705-19/64	.2969	1-9/16	2-3/4
1705-N	.3020	1-5/8	2-13/16

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705-5/16	.3125	1-5/8	2-13/16
1705-O	.3160	1-11/16	2-15/16
1705-P	.3230	1-11/16	2-15/16
1705-21/64	.3281	1-11/16	2-15/16
1705-Q	.3320	1-11/16	3
1705-R	.3390	1-11/16	3
1705-11/32	.3438	1-11/16	3
1705-S	.3480	1-3/4	3-1/16
1705-T	.3580	1-3/4	3-1/16
1705-23/64	.3594	1-3/4	3-1/16
1705-U	.3680	1-13/16	3-1/8
1705-3/8	.3750	1-13/16	3-1/8
1705-V	.3770	1-7/8	3-1/4
1705-W	.3860	1-7/8	3-1/4
1705-25/64	.3906	1-7/8	3-1/4
1705-X	.3970	1-15/16	3-5/16
1705-Y	.4040	1-15/16	3-5/16
1705-13/32	.4062	1-15/16	3-5/16
1705-Z	.4130	2	3-3/8
1705-27/64	.4219	2	3-3/8
1705-7/16	.4375	2-1/16	3-7/16
1705-29/64	.4531	2-1/8	3-9/16
1705-15/32	.4688	2-1/8	3-5/8
1705-31/64	.4844	2-3/16	3-11/16
1705-1/2	.5000	2-1/4	3-3/4

*Sizes #60-53 are not split point

Power Tool: Power Drill, Drill Press, CNC Machine

Application: Drill Medium - Hard Steel Alloys

Features: Short Flute & Overall Length, Self Centering 135° Split Point, Black Oxide Surface Treatment

Advantage: Short Length Increase Rigidity In Handheld Drilling For Better Operator Control, Precision Drilling Due To Split Point

Screw Machine Drills (Stubby)



Series 1705C | Short Flute & Overall Length | Cobalt | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705C-60*	.0400	1/2	1-3/8
1705C-59*	.0410	1/2	1-3/8
1705C-58*	.0420	1/2	1-3/8
1705C-57*	.0430	1/2	1-3/8
1705C-56*	.0465	1/2	1-3/8
1705C-3/64*	.0469	1/2	1-3/8
1705C-55*	.0520	5/8	1-5/8
1705C-54*	.0550	5/8	1-5/8
1705C-53*	.0595	5/8	1-5/8
1705C-1/16	.0625	5/8	1-5/8
1705C-52	.0635	11/16	1-11/16
1705C-51	.0670	11/16	1-11/16
1705C-50	.0700	11/16	1-11/16
1705C-49	.0730	11/16	1-11/16
1705C-48	.0760	11/16	1-11/16
1705C-5/64	.0781	11/16	1-11/16
1705C-47	.0785	11/16	1-11/16
1705C-46	.0810	3/4	1-3/4
1705C-45	.0820	3/4	1-3/4
1705C-44	.0860	3/4	1-3/4
1705C-43	.0890	3/4	1-3/4
1705C-42	.0935	3/4	1-3/4
1705C-3/32	.0938	3/4	1-3/4
1705C-41	.0960	13/16	1-13/16
1705C-40	.0980	13/16	1-13/16
1705C-39	.0995	13/16	1-13/16
1705C-38	.1015	13/16	1-13/16
1705C-37	.1040	13/16	1-13/16
1705C-36	.1065	13/16	1-13/16
1705C-7/64	.1094	13/16	1-13/16
1705C-35	.1100	7/8	1-7/8
1705C-34	.1110	7/8	1-7/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705C-33	.1130	7/8	1-7/8
1705C-32	.1160	7/8	1-7/8
1705C-31	.1200	7/8	1-7/8
1705C-1/8	.1250	7/8	1-7/8
1705C-30	.1285	15/16	1-15/16
1705C-29	.1360	15/16	1-15/16
1705C-28	.1405	15/16	1-15/16
1705C-9/64	.1406	15/16	1-15/16
1705C-27	.1440	1	2-1/16
1705C-26	.1470	1	2-1/16
1705C-25	.1495	1	2-1/16
1705C-24	.1520	1	2-1/16
1705C-23	.1540	1	2-1/16
1705C-5/32	.1562	1	2-1/16
1705C-22	.1570	1-1/16	2-1/8
1705C-21	.1590	1-1/16	2-1/8
1705C-20	.1610	1-1/16	2-1/8
1705C-19	.1660	1-1/16	2-1/8
1705C-18	.1695	1-1/16	2-1/8
1705C-11/64	.1719	1-1/16	2-1/8
1705C-17	.1730	1-1/8	2-3/16
1705C-16	.1770	1-1/8	2-3/16
1705C-15	.1800	1-1/8	2-3/16
1705C-14	.1820	1-1/8	2-3/16
1705C-13	.1650	1-1/8	2-3/16
1705C-3/16	.1875	1-1/8	2-3/16
1705C-12	.1890	1-3/16	2-1/4
1705C-11	.1910	1-3/16	2-1/4
1705C-10	.1935	1-3/16	2-1/4
1705C-9	.1960	1-3/16	2-1/4
1705C-8	.1990	1-3/16	2-1/4
1705C-7	.2010	1-3/16	2-1/4

135°



Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705C-13/64	.2031	1-3/16	2-1/4
1705C-6	.2040	1-1/4	2-3/8
1705C-5	.2055	1-1/4	2-3/8
1705C-4	.2090	1-1/4	2-3/8
1705C-3	.2130	1-1/4	2-3/8
1705C-7/32	.2188	3-1/8	2-3/8
1705C-2	.2210	1-5/16	2-7/16
1705C-1	.2280	1-5/16	2-7/16
1705C-A	.2340	1-5/16	2-7/16
1705C-15/64	.2344	1-5/16	2-7/16
1705C-B	.2380	1-3/8	2-1/2
1705C-C	.2420	1-3/8	2-1/2
1705C-D	.2460	1-3/8	1-1/2
1705C-1/4/E	.2500	1-7/16	2-5/8
1705C-F	.2570	1-7/16	2-5/8
1705C-G	.2610	1-7/16	2-5/8
1705C-17/64	.2656	1-7/16	2-5/8
1705C-H	.2660	1-1/2	2-11/16
1705C-I	.2720	1-1/2	2-11/16
1705C-J	.2770	1-1/2	2-11/16
1705C-K	.2810	1-1/2	2-11/16
1705C-9/32	.2812	1-1/2	2-11/16
1705C-L	.2900	1-9/16	2-3/4
1705C-M	.2950	1-9/16	2-3/4
1705C-19/64	.2969	1-9/16	2-3/4
1705C-N	.3020	1-5/8	2-13/16

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1705C-5/16	.3125	1-5/8	2-13/16
1705C-O	.3160	1-11/16	2-15/16
1705C-P	.3230	1-11/16	2-15/16
1705C-21/64	.3281	1-11/16	2-15/16
1705C-Q	.3320	1-11/16	3
1705C-R	.3390	1-11/16	3
1705C-11/32	.3438	1-11/16	3
1705C-S	.3480	1-3/4	3-1/16
1705C-T	.3580	1-3/4	3-1/16
1705C-23/64	.3594	1-3/4	3-1/16
1705C-U	.3680	1-13/16	3-1/8
1705C-3/8	.3750	1-13/16	3-1/8
1705C-V	.3770	1-7/8	3-1/4
1705C-W	.3860	1-7/8	3-1/4
1705C-25/64	.3906	1-7/8	3-1/4
1705C-X	.3970	1-15/16	3-5/16
1705C-Y	.4040	1-15/16	3-5/16
1705C-13/32	.4062	1-15/16	3-5/16
1705C-Z	.4130	2	3-3/8
1705C-27/64	.4219	2	3-3/8
1705C-7/16	.4375	2-1/16	3-7/16
1705C-29/64	.4531	2-1/8	3-9/16
1705C-15/32	.4688	2-1/8	3-5/8
1705C-31/64	.4844	2-3/16	3-11/16
1705C-1/2	.5000	2-1/4	3-3/4

*Sizes #60-53 are not split point

Power Tool: Power Drill, Drill Press, CNC Machine

Application: Drill Stainless Steel, Medium To Hard Steel Alloys

Features: Premium Heat Resistant Cobalt, Self-Centering 135° Split Point, Short Flute & Length

Advantages: Cobalt Ideal For Drilling Tough Stainless Steel, Short Length Increases Rigidity In Handheld Drilling For Better Operator Control, Precision Drilling Due To Split Point

Flatted Shank Drills



Series XM28 | High Performance | Mechanics Length Flatted Shank | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XM28-25/64	.3906	2-3/4	4-5/16	XM28-29/64	.4531	3	4-5/8
XM28-13/32	.4062	2-13/16	4-3/8	XM28-15/32	.4688	3-1/8	4-3/4
XM28-27/64	.4219	2-7/8	4-7/16	XM28-31/64	.4844	3-1/4	4-7/8
XM28-7/16	.4375	2-15/16	4-1/2	XM28-1/2	.5000	3-3/8	5



Power Tool: Power Drill, Drill Press

Application: Steel, Stainless Steel, Tough Alloys

Features: Short Mechanics Length, Self-Centering 135° Split Point, NoMo Surface Treatment

Advantage: Short Length Increases Rigidity For Better Operator Control. Flatted Shank For Secure Fit In Keyless Drill Chuck

3/8" Shank Drills (Reduced Shank)



Series XL38 | High Performance | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XL38-25/64	.3906	3-1/4	5-1/8	XL38-29/64	.4531	4-3/16	5-5/8
XL38-13/32	.4062	3-7/8	5-1/4	XL38-15/32	.4688	4-5/16	5-3/4
XL38-27/64	.4219	3-15/16	5-3/8	XL38-31/64	.4844	4-3/8	5-7/8
XL38-7/16	.4375	4-1/16	5-1/2	XL38-1/2	.5000	4-1/2	6



Power Tool: Power Drill, Drill Press

Application: Steel, Stainless Steel, Tough Alloys

Features: 3/8" Reduced Shank, Self-Centering 135° Split Point, NoMo Surface Treatment

Advantage: 3/8" Reduced Shank Ideal For Power Drills With Limited 3/8" Chuck Capacity

3/8" Shank Drills (Reduced Shank)



Series XG38 | Heavy Duty | Black & Gold | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XG38-25/64	.3906	3-3/4	5-1/8
XG38-13/32	.4062	3-7/8	5-1/4
XG38-27/64	.4219	3-15/16	5-3/8
XG38-7/16	.4375	4-1/16	5-1/2
XG38-29/64	.4531	4-3/16	5-5/8
XG38-15/32	.4688	4-5/16	5-3/4

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
XG38-31/64	.4844	4-3/8	5-7/8
XG38-1/2	.5000	4-1/2	6

Twister Sets

Part #	Qty	Contents
TWISTER-XG38	29 Piece	1/16 - 1/2" x 64ths



Power Tool: Power Drill, Drill Press

Application: Medium To Hard Steel Alloys

Features: 3/8" Reduced Shank, BlackGold Surface Treatment, Self-Centering 135° Split Point

Advantage: 3/8" Reduced Shank Ideal For Use In Power Drills With Limited 3/8" Chuck Capacity

3/8" Shank Drills (Reduced Shank)



Series 738 | General Purpose | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
738-25/64	.3906	3-1/4	5-1/8
738-13/32	.4062	3-7/8	5-1/4
738-27/64	.4219	3-15/16	5-3/8
738-7/16	.4375	4-1/16	5-1/2
738-29/64	.4531	4-3/16	5-5/8
738-15/32	.4687	4-5/16	5-3/4
738-31/64	.4844	4-3/8	5-7/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
738-1/2	.5000	4-1/2	6
738-17/32	.5312	4-13/16	6-5/8
738-9/16	.5625	4-13/16	6-5/8
738-19/32	.5938	5-3/16	7-1/8
738-5/8	.6250	5-3/16	7-1/8
738-21/32	.6562	5-3/16	7-1/8
738-11/16	.6875	5-5/8	7-5/8



Power Tool: Power Drill, Drill Press

Application: Aluminum, Low To Medium Steel Alloys

Features: 3/8" Reduced Shank, Black Oxide Surface Treatment

Advantage: 3/8" Reduced Shank Ideal For Use In Power Drills With Limited 3/8" Chuck Capacity

Carbide Tipped Jobber Drills



Series 705CT | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705CT-1/8	.1250	1-5/8	2-3/4
705CT-9/64	.1406	1-3/4	2-7/8
705CT-5/32	.1562	2	3-1/8
705CT-11/64	.1719	2-1/8	3-1/4
705CT-3/16	.1875	2-5/16	3-1/2
705CT-13/64	.2031	2-7/16	3-5/8
705CT-7/32	.2188	2-1/2	3-3/4
705CT-15/64	.2344	2-5/8	3-7/8
705CT-1/4	.2500	2-3/4	4
705CT-17/64	.2656	2-7/8	4-1/8
705CT-9/32	.2812	2-15/16	4-1/4
705CT-19/64	.2969	3-1/16	4-3/8
705CT-5/16	.3125	3-3/16	4-1/2

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
705CT-21/64	.3281	3-5/16	4-5/8
705CT-11/32	.3438	3-7/16	4-3/4
705CT-23/64	.3594	3-1/2	4-7/8
705CT-3/8	.3750	3-5/8	5
705CT-25/64	.3906	3-3/4	5-1/8
705CT-13/32	.4062	3-7/8	5-1/4
705CT-27/64	.4219	3-15/16	5-3/8
705CT-7/16	.4375	4-1/16	5-1/2
705CT-29/64	.4531	4-3/16	5-5/8
705CT-15/32	.4688	4-5/16	5-3/4
705CT-31/64	.4844	4-3/8	5-7/8
705CT-1/2	.5000	4-1/2	6



Power Tool: Power Drill, Drill Press

Application: Drill Hard & Abrasive Non-Ferrous Materials - Cast Iron, Cast Steel, Bronze, Hard Copper, Aluminum

Features: Carbide Tipped, 118° Point, Straight Shank

Advantage: Carbide Tip Is Ideal For Drilling Abrasive Materials

Note: Not Recommended For Drilling Steel

Double End Sheeter Drills



Series 1805 | HSS | 135° Split Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1805-30	.1285	1/2	2
1805-1/8	.1250	1/2	2
1805-9/64	.1406	1/2	2
1805-5/32	.1562	1/2	2

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
1805-3/16	.1875	1/2	2
1805-7/32	.2187	1/2	2
1805-1/4	.2500	1/2	2



Power Tool: Power Drill, Drill Press

Application: Drill Sheet Metal, Automobile Body Panels, Roofing

Features: Self-Centering 135° Split Point, Short Flute (1/2") & Short Overall Length (2") For Enhanced Rigidity, Black Oxide Surface Treated, High Speed Steel Resists Heat For Longer Tool Life

Solid Carbide Drills



Series 105 | Tungsten Carbide | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
105-1/64	0.0156	1/2	1-1/4	105-9/32	0.2812	2 1/8	3-1/2
105-3/64	0.0469	3/4	1-1/2	105-19/64	0.2969	2 3/8	3-3/4
105-1/16	0.0625	3/4	1-1/2	105-5/16	0.3125	2 3/8	3-3/4
105-5/64	0.0781	7/8	1-3/4	105-21/64	0.3281	2-1/2	4
105-3/32	0.0938	1	2	105-11/32	0.3438	2-1/2	4
105-7/64	0.1094	1-1/4	2-1/4	105-23/64	0.3594	2 3/4	4-1/4
105-1/8	0.125	1-1/4	2-1/4	105-3/8	0.375	2 3/4	4-1/4
105-9/64	0.1406	1-3/8	2-1/2	105-25/64	0.3906	2-7/8	4-1/2
105-5/32	0.1562	1-3/8	2-1/2	105-13/32	0.4062	2-7/8	4-1/2
105-11/64	0.1719	1 5/8	2-3/4	105-27/64	0.4219	2-7/8	4-1/2
105-3/16	0.1875	1-5/8	2-3/4	105-7/16	0.4375	2-7/8	4-1/2
105-13/64	0.2031	1-3/4	3	105-29/64	0.4531	3	4-3/4
105-7/32	0.2188	1-3/4	3	105-15/32	0.4688	3	4-3/4
105-15/64	0.2344	2	3-1/4	105-31/64	0.4844	3	4-3/4
105-1/4	0.25	2	3-1/4	105-1/2	0.5	3	4-3/4
105-17/64	0.2656	2-1/8	3-1/2				



Power Tool: Drill Press, Power Drill, CNC Machine

Application: Drill Non-Ferrous, Abrasive Materials - Cast Iron, Aluminum, Copper, Plastics, Bronze

Features: Solid Carbide, Extreme Rigidity Helps Maintain Drilling Accuracy

Advantage: Solid Carbide Drills Outperform Carbide Tipped Drills In High Heat Applications

Hole Saw Pilot Drills



Series 705-PILOT | Notched Shank | HSS | 118° Split Point

Part #	Dia (in)	Overall Length (in)
705-PILOT	1/4"	4"



Application: 1/4" Pilot Drill For Use In Standard Hole Saws

Features: 118° Self-Centering Split Point, Notches Ground Into Shank Allow For Adjustment For Varying Depth Hole Saws

Taper Shank Drills



Series 702 | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Shank No.
702-3/8	.3750	3-1/2	6-3/4	1
702-7/16	.4375	3-7/8	7-1/4	1
702-1/2	.5000	4-3/8	8-1/4	2
702-9/16	.5625	4-7/8	8-3/4	2
702-5/8	.6250	4-7/8	8-3/4	2
702-11/16	.6875	5-3/8	9-1/4	2

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)	Shank No.
702-3/4	.7500	5-7/8	9-3/4	2
702-13/16	.8125	6-1/8	10-3/4	3
702-7/8	.8750	6-1/8	10-3/4	3
702-15/16	.9375	6-1/8	10-3/4	3
702-1	1.0000	6-3/8	11	3

Power Tool: Machinery With Taper Shank Socket Or Arbor

Application: Low To Medium Carbon Steels, Alloyed Steels, Steel Drop Forgings, Grey Cast Iron

Features: Black Oxide Surface Treatment



S1 Reducing Shanks Available - Used To Adapt Taper Shank Tools Where The Drill Shank Is Smaller Than The Machine Spindle Hole



S2 Taper Shank Extension Sockets Available - Used To Adapt Taper Shank Tools Where The Drill Shank Is Larger Than The Machine Spindle Hole



D1 Drift Keys Available To Eject Taper Shank Drills & Sockets From Machine Spindles



Taper Length Drills



Series 704 | HSS | 118° Point

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
704-1/8	.1250	2-3/4	5-1/8
704-3/16	.1875	3-3/8	5-3/4
704-1/4	.2500	3-3/4	6-1/8
704-5/16	.3125	4	6-3/8

Part #	Decimal Equivalent	Flute Length (in)	Overall Length (in)
704-3/8	.3750	4-1/4	6-3/4
704-7/16	.4375	4-5/8	7-1/4
704-1/2	.5000	4-3/4	7-3/4



Power Tool: Lathes, Screw Machine Applications

Application: Low To Medium Carbon Steels, Alloyed Steels, Steel Drop Forgings, Grey Cast Iron

Features: Same Overall Flute Length As Taper Shank Drills (Longer Than Standard Jobber Drills), Shank Is Same Nominal Diameter As The Drill, Black Oxide Surface Treatment

SCREW EXTRACTORS

remove old hardware.

Screw Extractors Are An Important Maintenance Tool.
Champion Is Proud To Offer Top Quality Screw Extractors
For Mechanics & Maintenance Workers In The Field.

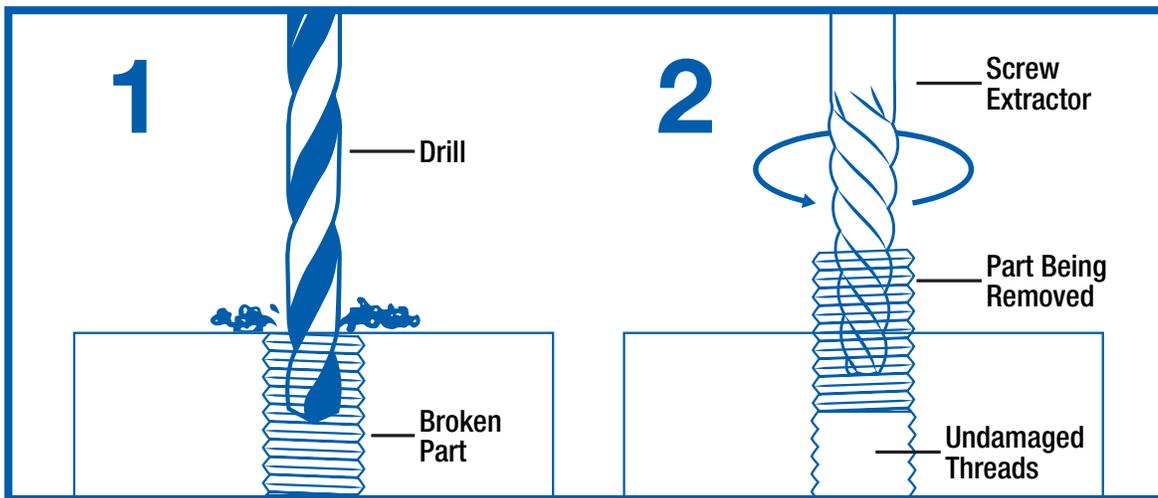


Screw Extractors

X1 - Spiral Flute - Heavy Duty

Part #	Dia Small End (in)	Dia Large End (in)	Overall Length (in)	For Bolt Sizes (in)	For Pipe Sizes (in)	Drill Size (in)
X1-1	.054	5/32	2	3/16 to 1/4	—	5/64
X1-2	.80	3/16	2-3/8	1/4 to 5/16	—	7/64
X1-3	1/8	1/4	2-11/16	5/16 to 7/16	—	5/32
X1-4	3/16	21/64	2-7/8	7/16 to 9/16	—	1/4
X1-5	1/4	7/16	3-3/8	9/16 to 3/4	1/8, 1/4	19/64
X1-6	3/8	19/32	3-3/4	3/4 to 1-3/8	3/8	13/32
X1-7	1/2	3/4	4-1/8	1 to 1-3/8	1/2	17/32
X1-8	3/4	1	4-3/8	1-3/8 to 1-3/4	3/4	13/16
X1-9	1	1-9/32	4-5/8	1-3/4 to 2-1/8	1	1-1/16
X1-10	1-1/4	1-9/16	5	2-1/8 to 2-1/2	1-1/4	1-5/16
X1-11	1-1/2	1-7/8	5-5/8	2-1/2 to 3	1-1/2	1-9/16
X1-12	1-7/8	2-15/16	6-1/4	3 to 3-1/2	2	1-15/16

X1 Operating Guidelines



Application: For The Removal Of Broken Screws, Studs, Bolts, Or Pipe Fittings

Operating Guidelines (X1)

1. Drill A Hole In The Broken Screw With the Recommended Diameter Twist Drill
2. Insert The Proper Screw Extractor Into The Hole & Start A Counterclockwise, Left-Hand Rotation

Operating Guidelines (X2)

1. Hammer Screw Extractor Into Broken Bolt, Tapered Flutes Force Out Almost Any Right Hand Threaded Part

Note: Penetrating Oil Can Be Helpful In Removing Rusty Or Corroded Parts

X2 - Straight Flute - General Purpose

Part #	Dia Small End (in)	Dia Large End (in)	Overall Length (in)	For Bolt Sizes (in)	For Pipe Sizes (in)	Drill Size (in)
X2-1	.054	5/32	2	3/16 to 1/4	—	5/64
X2-2	.80	3/16	2-3/8	1/4 to 5/16	—	7/64
X2-3	1/8	1/4	2-11/16	5/16 to 7/16	—	5/32
X2-4	3/16	21/64	2-7/8	7/16 to 9/16	—	1/4
X2-5	1/4	7/16	3-3/8	9/16 to 3/4	1/8, 1/4	19/64
X2-6	3/8	19/32	3-3/4	3/4 to 1-3/8	3/8	13/32
X2-7	1/2	3/4	4-1/8	1 to 1-3/8	1/2	17/32

Screw Extractor Sets

Part #	Contents
X1-1-5	Screw Extractors #1-5
X1-1-6	Screw Extractors #1-6
X2-1-5	Straight Shank Extractors #1-5
X2-1-6	Straight Shank Extractors #1-6

Screw Extractor / Drill Sets

Part #	Contents
X1-XL5LH	XL5LH Drills 5/64, 7/64, 5/32, 1/4, 19/64 & Screw Extractors #1-5
X1-705LH	705LH Drills 5/64, 7/64, 5/32, 1/4, 19/64 & Screw Extractors #1-5

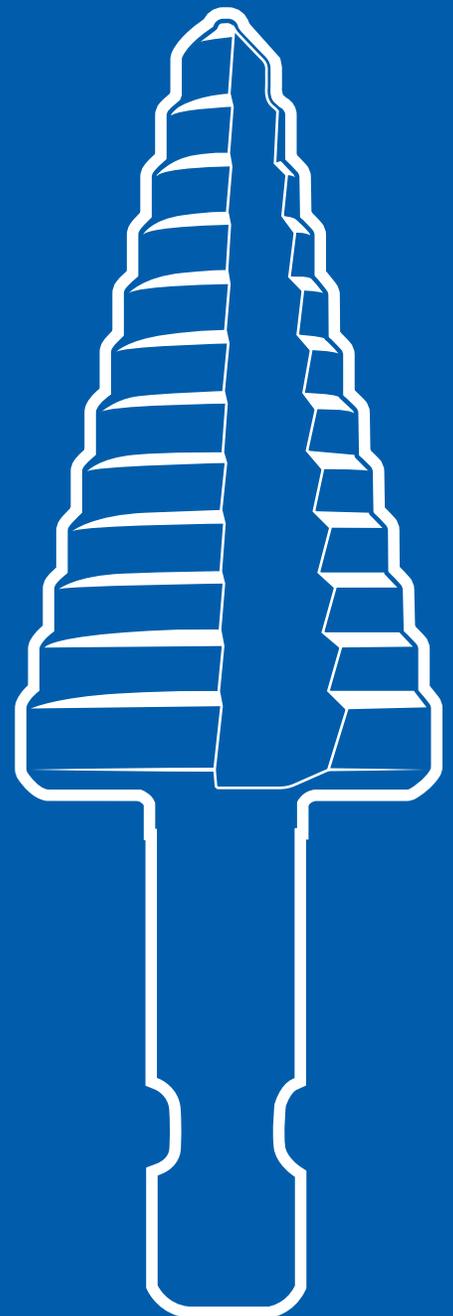


Note: Available In iPAC Merchandisable Pack

STEP DRILLS

drill thin metal.

Since Champion's Initial Launch 25 Years Ago, We Have Engineered Three Generations Of Step Drills. Product Improvement Is Prioritized Based On Industry Trends & Field Requirements.



Step Drills

Series MSD-HEX | 1/4" Hex Shank | Titanium Nitride (TiN) Coated | 135° Split Point

Part #	Size Range (in)	Number of Steps
MSD-HEX-1	1/8 - 1/2 x 32nds	13
MSD-HEX-3	1/4 - 3/4 x 16ths	9
MSD-HEX-4	3/16 - 7/8 x 16ths	12
MSD-HEX-13	1/4 to 1 - 1/8 x 16ths	15



MSD-HEX-1



MSD-HEX-3



MSD-HEX-4



MSD-HEX-13



Step Drill Sets

Part #	Contents
MSD-HEX-SET3	MSD-HEX-1, MSD-HEX-3, MSD-HEX-4

Quick Change Drivers

Part #	Length
QCD-EXT-6	6" Extension drive for 1/4" hex shank tools
QCD-EXT-12	12" Extension drive for 1/4" hex shank tools
QCD-EXT-24	24" Extension drive for 1/4" hex shank tools



Power Tool: 1/4" Impact Drivers, Handheld Power Drill

Application: Drill Fast, Bur-Free Holes In Sheet Metal Up To 1/8" Thick

Features/Advantage: Titanium Nitride Coating Extends Tool Life & Increases Tool Performance. Self-Starting 135° Split Point For Accurate Drilling - Drill Will Not Slip On Work Piece. Two Flute Design For Balanced, Clean Holes. Chamfered Steps For Bur-Free Holes. Ideal For Electrical Work, Construction & Maintenance.

Step Drills

Series MSD | Straight Shank | Split Point

Part #	Size Range (in)	No. of Steps
MSD-1/2X1/8	1/8 - 1/2 x 32nds	13
MSD-1/2X3/16	3/16 - 1/2 x 16ths (Longer Steps)	6
MSD-1/2	3/16 - 1/2 x 16ths	6
MSD-3/4X1/4	1/4 - 3/4 x 16ths	9
MSD-7/8X3/16	3/16 - 7/8 x 16ths	12
MSD-7/8X1/4	1/4 - 7/8 x 16ths	11
MSD-1X9/16*	1/2 - 1 x 16ths (No Drill Point)	9
MSD-1-1/8X1/4	1/4 to 1-1/8 x 16ths	15
MSD-1-3/8X1/4	1/4 to 1-3/8 x 16ths	13



Step Drill Sets

Part #	Contents
MSD-SET	MSD-1/2X1/8, MSD-1/2X3/16, MSD-3/4X1/4

Power Tool: Handheld Power Drill, Drill Press

Application: Drill Fast, Bur-Free Holes In Sheet Metal Up To 1/8" Thick

Features/Advantage: Drill Holes In Sheet Metal Up To 1/8" Thick. Graduated Step & Two Flute Design For Fast, Bur-Free, Smooth Drilling. Precision Drilling - Split Point Prevents Drill From Walking On Workpiece. Ideal For Electrical Work, Construction & Maintenance.



MSD-1/2X1/8



MSD-1/2X3/16



MSD-1/2



MSD-3/4X1/4



MSD-7/8X3/16



MSD-7/8X1/4



MSD-1X9/16



MSD-1-1/8X1/4

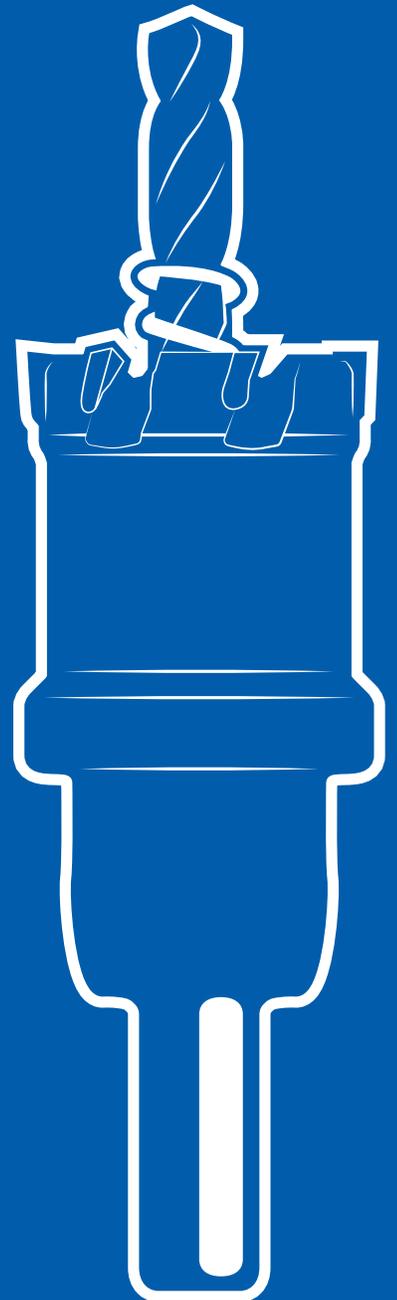


MSD-1-3/8X1/4

HOLE CUTTERS & HOLE SAWS

large diameter holemaking.

Champion Was The First To Introduce Carbide Tipped Hole Cutters To The North American Market. Our Most Popular Series, The CT7, Is Available In A Broad Size Range - 9/16" To 4-1/2" Dia, Up To 1" Depth.



Carbide Tipped Hole Cutters

Series CT7 | 1" Depth Of Cut | Flatted Shank

Part #	Dia (in)	Depth (in)
CT7-9/16	9/16	1
CT7-5/8	5/8	1
CT7-11/16	11/16	1
CT7-3/4	3/4	1
CT7-13/16	13/16	1
CT7-7/8	7/8	1
CT7-15/16	15/16	1
CT7-1	1	1
CT7-1-1/16	1-1/16	1
CT7-1-1/8	1-1/8	1
CT7-1-3/16	1-3/16	1
CT7-1-1/4	1-1/4	1
CT7-1-5/16	1-5/16	1
CT7-1-3/8	1-3/8	1
CT7-1-7/16	1-7/16	1
CT7-1-1/2	1-1/2	1
CT7-1-9/16	1-9/16	1
CT7-1-5/8	1-5/8	1
CT7-1-11/16	1-11/16	1
CT7-1-3/4	1-3/4	1
CT7-1-13/16	1-13/16	1
CT7-1-7/8	1-7/8	1
CT7-1-15/16	1-15/16	1
CT7-2	2	1
CT7-2-1/8	2-1/8	1
CT7-2-1/4	2-1/4	1
CT7-2-3/8	2-3/8	1
CT7-2-1/2	2-1/2	1
CT7-2-9/16	2-9/16	1
CT7-2-5/8	2-5/8	1

Part #	Dia (in)	Depth (in)
CT7-2-3/4	2-3/4	1
CT7-2-7/8	2-7/8	1
CT7-3	3	1
CT7-3-1/4	3-1/4	1
CT7-3-1/2	3-1/2	1
CT7-3-5/8	3-5/8	1
CT7-3-3/4	3-3/4	1
CT7-4	4	1
CT7-4-1/8	4-1/8	1
CT7-4-1/4	4-1/4	1
CT7-4-1/2	4-1/2	1

All Cutters Include CT7-PILOT, CT7-SCREW, CT7-SPRING

Sizes 9/16 To 3" Have 3/8" Shank,
 Sizes 3-1/4" To 4-1/2" Have 1/2" Shank

Replacement Parts

Part #	Description
CT7-PILOT	Replacement HSS Pilot
CT7-SCREW	Replacement Screw
CT7-SPRING	Replacement Spring
CT7-PILOT-TCT	Carbide Tipped Pilot Drill (For Abrasive Materials)
CT7CO-PILOT	Cobalt Pilot Drill (For Stainless Steel)

Extensions

Part #	Description
CT-EXT-3/8	5" Ext. For 3/8" Shank CT Cutters
CT-EXT-1/2	5" Ext. For 1/2" Shank CT Cutters

For Use With CT5 And CT7 Carbide Tipped Hole Cutters

Sets

Part #	Qty	Description	Contents
CT7P-SET-4	5 Piece	Maintenance	5/8, 3/4, 7/8, 1, 1-1/8"
CT7P-SET-5	5 Piece	Bolt Clearance	9/16, 11/16, 13/16, 15/16, 1-1/16"
CT7P-SET-6	5 Piece	Electrical	7/8, 1-1/8, 1-3/8, 1-3/4, 2"
CT7P-ELECTRICAL-1	10 Piece	Electrical	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"
CT7P-MECHANICAL-1	12 Piece	Mechanical	5/8, 3/4, 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2, 1-3/4, 2, 2-1/2, 3"
CT7P-PLUMBER-1	6 Piece	Plumbing	3/4, 7/8, 1-1/8, 1-1/2, 1-3/4, 2-1/4"
CT7P-PLUMBER-2	12 Piece	Plumbing	3/4, 7/8, 1-1/8, 1-1/2, 1-3/4, 2-1/4, 2-9/16, 3, 3-1/2, 4, 4-1/4, 4-1/2"



CT7P-SET-5



Power Tool: Power Drill, Drill Press

Application: Drill Fast, Accurate Holes Through Steel, Stainless Steel, & Other Tough Materials. Ideal Portable Tool For Electricians, HVAC, Sheet Metal Trades, Contractors, Steel Fabrication.

Features: Ultra-Sharp Tungsten Carbide Teeth Cut Quick, Smooth, Perfectly Round Holes. Flatted Shank For Use In Power Drills & Drill Presses. Safety Collar Stop Prevents Over-Penetration For Safer Operation. Spring Loaded Pilot Drill Ejects Metal Plug Quickly For Increased Productivity.

Advantage: Outperform Bi-Metal Hole Saws, Heavy Duty Drilling - Drill Up To 1" Depth In Tough Materials

Carbide Tipped Hole Cutters

Series CT5 | 3/16" Depth Of Cut | Flatted Shank

Part #	Dia (in)	Depth (in)
CT5-9/16	9/16	3/16
CT5-5/8	5/8	3/16
CT5-11/16	11/16	3/16
CT5-3/4	3/4	3/16
CT5-13/16	13/16	3/16
CT5-7/8	7/8	3/16
CT5-15/16	15/16	3/16
CT5-1	1	3/16
CT5-1-1/16	1-1/16	3/16
CT5-1-1/8	1-1/8	3/16
CT5-1-3/16	1-3/16	3/16
CT5-1-7/32	1-7/32	3/16
CT5-1-1/4	1-1/4	3/16
CT5-1-5/16	1-5/16	3/16
CT5-1-3/8	1-3/8	3/16
CT5-1-7/16	1-7/16	3/16
CT5-1-1/2	1-1/2	3/16
CT5-1-9/16	1-9/16	3/16
CT5-1-5/8	1-5/8	3/16
CT5-1-11/16	1-11/16	3/16
CT5-1-3/4	1-3/4	3/16
CT5-1-13/16	1-13/16	3/16
CT5-1-7/8	1-7/8	3/16
CT5-1-15/16	1-15/16	3/16
CT5-2	2	3/16
CT5-2-1/16	2-1/16	3/16
CT5-2-1/8	2-1/8	3/16
CT5-2-3/16	2-3/16	3/16
CT5-2-1/4	2-1/4	3/16
CT5-2-5/16	2-5/16	3/16

Part #	Dia (in)	Depth (in)
CT5-2-3/8	2-3/8	3/16
CT5-2-7/16	2-7/16	3/16
CT5-2-1/2	2-1/2	3/16
CT5-2-9/16	2-9/16	3/16
CT5-2-5/8	2-5/8	3/16
CT5-2-11/16	2-11/16	3/16
CT5-2-3/4	2-3/4	3/16
CT5-2-13/16	2-13/16	3/16
CT5-2-7/8	2-7/8	3/16
CT5-2-15/16	2-15/16	3/16
CT5-3	3	3/16
CT5-3-1/8	3-1/8	3/16
CT5-3-1/4	3-1/4	3/16
CT5-3-3/8	3-3/8	3/16
CT5-3-1/2	3-1/2	3/16
CT5-3-5/8	3-5/8	3/16
CT5-3-3/4	3-3/4	3/16
CT5-3-7/8	3-7/8	3/16
CT5-4	4	3/16
CT5-4-1/8	4-1/8	3/16
CT5-4-1/4	4-1/4	3/16
CT5-4-3/8	4-3/8	3/16
CT5-4-1/2	4-1/2	3/16
CT5-4-3/4	4-3/4	3/16
CT5-5	5	3/16

Sizes 9/16 To 2-9/16" Have 3/8" Shank
 Sizes 2-5/8" To 5" Have 1/2" Shank

All Cutters Include CT5-PILOT, CT5-SCREW, CT5-SPRING

Replacement Parts

Part #	Description
CT5-PILOT	Replacement HSS Pilot
CT5-SCREW	Replacement Screw
CT5-SPRING	Replacement Spring
CT5-PILOT-TCT	Carbide Tipped Pilot Drill (For Abrasive Materials)
CT5CO-PILOT	Cobalt Pilot Drill (For Stainless Steel)

Sets

Part #	Qty	Description	Contents
CT5P-SET-1	5 Piece	Electrical	7/8, 1-1/8, 1-3/8, 1-3/4, 2"
CT5P-SET-A	3 Piece	Electrical	7/8, 1-1/8, 1-3/8"
CT5P-SET-B	6 Piece	Electrical	7/8, 1-1/8, 1-3/8, 1-3/4, 2, 2-1/2"
CT5P-CONDUIT-1	7 Piece	Electrical	7/8, 1-1/8, 1-7/32, 1-3/8, 1-3/4, 2, 2-1/2"
CT5P-ELECTRICAL-1	10 Piece	Electrical	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"



CT5P-SET-1



Power Tool: Power Drill, Drill Press

Application: Drill Fast, Accurate Holes Through Sheet Metal, Aluminum, Steel, Stainless Steel, FRP Up To 3/16" Depth. Ideal Portable Tool For Electricians, HVAC, Sheet Metal Trades, Contractors.

Features: Ultra-Sharp Tungsten Carbide Teeth Cut Quick, Smooth, Perfectly Round Holes. Flatted Shank For Use In Power Drills & Drill Presses. Safety Collar Stop Prevents Over-Penetration For Safer Operation. Spring Loaded Pilot Drill Ejects Metal Plug Quickly For Increased Productivity.

Carbide Tipped Hole Cutters



Series CT3 | 1/8" Depth Of Cut | 1/4" Hex Shank

Replacement Parts

Part #	Dia (in)	Depth (in)
CT3-5/8	5/8	1/8
CT3-11/16	11/16	1/8
CT3-3/4	3/4	1/8
CT3-13/16	13/16	1/8
CT3-7/8	7/8	1/8
CT3-15/16	15/16	1/8
CT3-1	1	1/8
CT3-1-1/16	1-1/16	1/8
CT3-1-1/8	1/1	1/8
CT3-1-3/16	1-3/16	1/8
CT3-1-1/4	1-1/4	1/8
CT3-1-5/16	1-5/16	1/8
CT3-1-3/8	1-3/8	1/8

Part #	Description
CT3-PILOT	Replacement Pilot Drill
CT3-SCREW	Replacement Screw
CT3-SPRING	Replacement Spring

All Cutters Include CT3-PILOT, CT3-SCREW, CT3-SPRING

Power Tool: Power Drill, 1/4" Impact Driver

Application: Drill Fast, Accurate, Bur-Free Holes Through Sheet Metal, Aluminum, FRP Up To 1/8" Depth. Ideal Portable Tool For Electricians, HVAC, Sheet Metal Trades, Contractors.

Features: Impact Ready Hex Shank For Convenient Use in Impact Drivers, Safety Collar Stop Prevents Over-Penetration For Safer Operation, Spring Loaded Pilot Drill Ejects Metal Plug Quickly For Increased Productivity



Carbide Tipped Hole Cutters



Series CT9 | 2" Depth Of Cut | Straight Shank

Replacement Parts

Part #	Dia (in)	Depth (in)
CT9-1-1/2	1-1/2	2
CT9-2-1/8	2-1/8	2

Part #	Description
CT9-PILOT	Replacement Pilot Drill
CT9-SCREW	Replacement Screw

All Cutters Include CT9-PILOT, CT9-SCREW



Power Tool: Power Drill, Drill Press

Application: Drill Fast, Accurate Holes Through Thick Steel & Stainless Steel Doors

Features: Ultra-sharp Tungsten Carbide Teeth Cut Quick, Smooth, Perfectly Round Holes. Flatted Shank For Use In Power Drills & Drill Presses. Safety Collar Stop Prevents Over-Penetration For Safer Operation. Spring Loaded Pilot Drill Ejects Metal Plug Quickly For Increased Productivity.

Advantage: Ideal For Door Knob & Deadbolt Installation, Heavy Duty Drilling - Drill Up To 2" Depth In Tough Materials

Sheet Metal Cutters



Series SMC | Surface Treated | HSS

Cutter Heads Only

Part #	Dia (in)	Depth (in)
SMC-1/4	1/4	1/4
SMC-5/16	5/16	1/4
SMC-3/8	3/8	1/4
SMC-7/16	7/16	1/4
SMC-1/2	1/2	1/4
SMC-9/16	9/16	1/4
SMC-5/8	5/8	1/4
SMC-3/4	3/4	1/4
SMC-13/16	13/16	1/2
SMC-7/8	7/8	1/2
SMC-15/16	15/16	1/2
SMC-1	1	1/2
SMC-1-1/16	1-1/16	1/2
SMC-1-1/8	1-1/8	1/2
SMC-1-3/16	1-3/16	1/2
SMC-1-1/4	1-1/4	1/2
SMC-1-3/8	1-3/8	1/2
SMC-1-1/2	1-1/2	1/2

Accessories

Part #	Description
SMC-ARBOR-1	Arbor For Sizes 1/4 to 3/4"
SMC-PILOT-1	Pilot For Sizes 1/4 to 3/4"
SMC-WASHER-1	Small Washer For Use With SMC-ARBOR-1
SMC-WASHER-2	Large Washer For Use With SMC-ARBOR-1
SMC-BALL	Ball For Use With SMC-ARBOR-1
SMC-ARBOR-2	Arbor For Sizes 13/16 to 1-1/2"
SMC-PILOT-2	Pilot For Sizes 13/16 to 1-1/2"
SMC-WASHER-HEX	Washer For Use With SMC-ARBOR-2
SMC-HEX-3.0M	Hex Key For Use With SMC-ARBOR-2
SMC-M6-SCREW	Screw For Use With SMC-ARBOR-2 & SMC-HEX-3.0M
SMC-HEX-4.0M	Hex Key For Use With SMC-ARBOR-1 & 2
SMC-PUNCH	Punch For Use With SMC-ARBOR-1 & 2
SMC-SPRING	Spring For Use With SMC-ARBOR-1 & 2
SMC-M8-SCREW	Screw For Use With SMC-ARBOR-1 & 2 & SMC-HEX-4.0M

Cutters Complete With Arbor - Retail Packaging

Part #	Description
SMC-XPAC-1/4	Fully Assembled SMC-1/4, SMC-ARBOR-1, SMC-PILOT-1, SMC-WASHER-1
SMC-XPAC-3/8	Fully Assembled SMC-3/8, SMC-ARBOR-1, SMC-PILOT-1, SMC-WASHER-1
SMC-XPAC-5/16	Fully Assembled SMC-5/16, SMC-ARBOR-2, SMC-PILOT-2, SMC-WASHER-2

Sets

Part #	Description
SMC-SET-1	13 Pc Set Includes SMC Sizes 1/4, 5/16, 3/8, 1/2, 9/16, 5/8, 3/4", Arbor, Pilot, Hex Key, Small & Large Washer, Center Punch
SMC-SET-2	12 Pc Set Includes SMC Sizes 7/8, 1, 1-1/8, 1-1/4, 1-3/8, 1-1/2", Arbor, Pilot, 2 Hex Keys, 1 Hex Washer, Center Punch



Power Tool: Power Drill, Drill Press

Application: Drill Fast, Bur-Free Holes In Sheet Metal, Steel Plate, and Plastics. Ideal Portable Tool For Electricians, HVAC, PDR, Sheet Metal Trades, Automotive Frame And Bodywork.

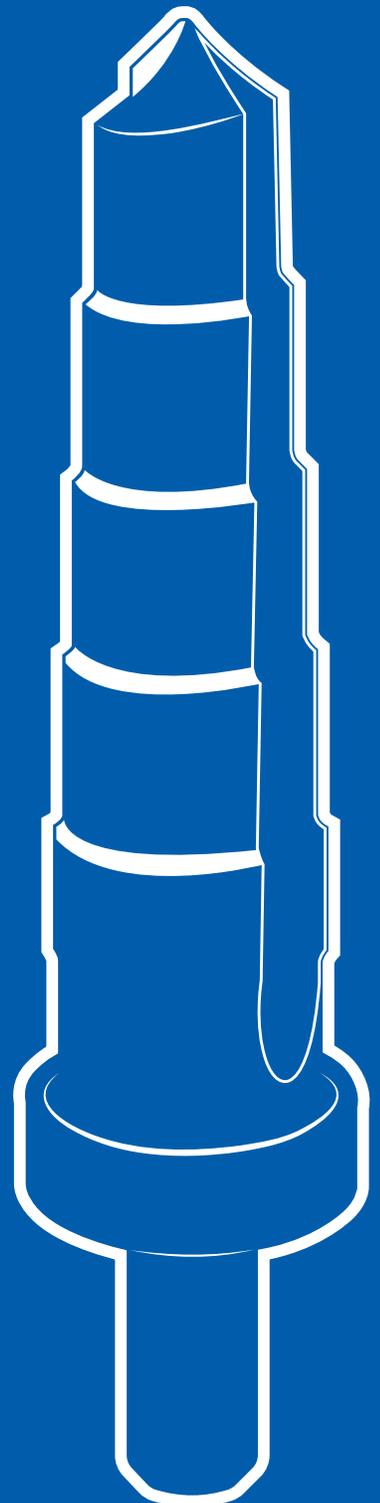
Features: Sharp Cutters, Surface Treated HSS Enhances Heat Resistance For Long Tool Life



REAMERS

enlarge & align.

Back In 1980, We Engineered Our SA80 Car Reamers Specifically To Ream Holes In Tough Truck Frames. Then In 1986, We Introduced The XL86—Designed For Steel Erectors To Ream Holes And Drive Bolts In Structural Steel, All With The Same Power Tool And Impact Socket. Two Smart Solutions, One Seamless Workflow.



Maintenance Reamers



Series SA80 | Heavy Duty | "Car Reamers"

Part #	Decimal Equivalent	No. Of Flutes	Point Dia	Flute Length (in)	Overall Length (in)
SA80-5/16*	.3125	4	.176	3	4-3/4
SA80-3/8*	.3750	4	.188	3	5
SA80-7/16*	.4375	4	.218	3-1/4	5-1/4
SA80-1/2	.5000	5	.230	3-15/16	5-15/16
SA80-9/16	.5625	5	.2925	3-15/16	5-15/16
SA80-5/8	.6250	5	.259	4-1/2	6-9/16
SA80-.652	.6520	5	.293	4-3/4	6-9/16
SA80-11/16	.6875	5	.3125	4-1/2	6-9/16
SA80-3/4	.7500	5	.453	4-15/16	7
SA80-.776	.7760	5	.461	5-3/16	7
SA80-13/16	.8125	5	.5155	4-15/16	7
SA80-7/8	.8750	5	.580	5-3/16	7-1/4
SA80-15/16	.9375	5	.6425	5-3/16	7-1/4
SA80-1	1.0000	5	.708	5-3/16	7-1/4
SA80-1-1/16	1.0625	5	.753	5-7/16	7-1/4
SA80-1-1/8**	1.1250	5	.810	5-7/16	7-1/4
SA80-1-1/4**	1.2500	5	.930	5-11/16	7-1/2
SA80-1-3/8**	1.3750	5	.930	5-11/16	7-1/2
SA80-1-1/2**	1.5000	5	1.185	5-11/16	7-1/2

*Shank Diameter Same As Reamer Diameter, **3/4" Flatted Shank
 Sizes .652 & .776 Are Specifically For Shoulder Bolts Used On Truck Frames

Sets

Part #	Qty	Contents
SA80-SET	3 Piece	1/2, 5/8, 3/4"
SA80P-SET4	4 Piece	3/8, 1/2, 5/8, 3/4"



Power Tool: Power Drills & Drill Presses

Application: Enlarge & Align Existing Holes Through Steel, Stainless Steel, Tough Alloys. Ideal For Maintenance Work, Steel Erection/Fabrication, Truck/Trailer Repair

Features: Left Hand Helix, Right Hand Cut, Safety Collar Stop, 1/2" Flatted Shank In Sizes 1/2 To 1-1/16", Surface Treated High Speed Steel

Advantage: Shears Chips Away From Operator, Safety Collar Prevents Over-Penetration, Enhanced Operator Stability

Step Reamers



Series XSR | Heavy Duty Hybrid Of Step Drill & Maintenance Reamer

Part #	Size (in)	Flute Length (in)	Overall Length (in)
XSR-5/16X9/16	5/16, 3/8, 7/16, 1/2, 9/16	2-3/4	4-1/2
XSR-9/16X13/16	9/16, 5/8, 11/16, 3/4, 13/16	2-3/4	4-1/2
XSR-13/16X1-1/16	13/16, 7/8, 15/16, 1, 1-1/16	2-3/4	4-5/8

Sets

Part #	Qty	Contents	Drill Sizes
XSR-SET	3 Piece	XSR-5/16X9/16 XSR-9/16X13/16 XSR-13/16X1-1/16	(5/16, 3/8, 7/16, 1/2, 9/16) (9/16, 5/8, 11/16, 3/4, 13/16) (13/16, 7/8, 15/16, 1, 1-1/16)



Power Tool: Power Drills & Drill Presses

Application: Enlarge & Align Holes In Steel, Stainless Steel & Tough Alloys Up to 1/2" Thick. Ideal Maintenance Tool For Construction, Steel Fabrication, MRO, MEP, Automotive Work

Features: 5 Drill Sizes Per Tool, Sharp Two Flute Design, Safety Collar, 1/2" Shank, 90° Drill Point, Surface Treated High Speed Steel, Chamfered Steps De-Bur Holes

Advantage: Efficient, Productive, Convenient Tool. Fast, Smooth, Bur-Free Holes. Safety Collar Prevents Over-Penetration & Enhances Operator Control

Maintenance Reamers



Series HX82 | Hex Shank | Spiral Flute

HX82M Magnetic Hex Shank Spiral Flute

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
HX82M-11/16	11/32	5-3/16	7	1-1/16
HX82M-13/16	35/64	5-3/16	7	1-1/4
HX82M-15/16	11/16	5-3/16	7	1-7/16
HX82M-1-1/16	13/16	5-3/16	7	1-5/8
HX82M-1-3/16	57/64	5-3/16	7	1-13/16

HX82 Standard Hex Shank Spiral Flute

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
HX82-11/16	11/32	5-3/16	7	1-1/16
HX82-13/16	35/64	5-3/16	7	1-1/4
HX82-15/16	11/16	5-3/16	7	1-7/16
HX82-1-1/16	13/16	5-3/16	7	1-5/8
HX82-1-3/16	57/64	5-3/16	7	1-13/16

Hex Shank Sizes Same As Required Nut Size

HX80 Hex Shank Straight Flute

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
HX80-11/16	11/32	5-3/16	7	1-1/16
HX80-13/16	35/64	5-3/16	7	1-1/4
HX80-15/16	11/16	5-3/16	7	1-7/16
HX80-1-1/16	13/16	5-3/16	7	1-5/8
HX80-1-3/16	57/64	5-3/16	7	1-13/16

Hex Shank Sizes Same As Required Nut Size



HX82M

Power Tool: Electric & Pneumatic Tools With Rotary Impact Sockets

Application: Enlarge & Align Holes In Steel & Structural Steel, Ideal For Maintenance Work, Steel Erection/Fabrication, Truck/Trailer Repair

Features (HX82 / HX82M): Hex Shank, Left Hand Helix, Right Hand Cut, Surface Treated HSS

Advantage: Short Length For Use In Tight Spaces, Shears Chips Away From Operator, Resists Heat & Friction

Note: HX82M Features 2 Rare Earth Magnets Embedded In Shank For Safe, Secure Fit In Electric & Pneumatic Tools & Sockets, Complies With OSHA 1926.759 Falling Objects

Bridge Reamers



Series XL86 | Heavy Duty | Hex Shank | Spiral Flute

XL86M Magnetic Hex Shank

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
XL86M-11/16	11/32	5-3/4	9-3/16	1-1/16
XL86M-13/16	35/64	6-3/8	9-3/4	1-1/4
XL86M-15/16	11/16	7	10-13/16	1-7/16
XL86M-1-1/16	13/16	7	10-15/16	1-5/8
XL86M-1-3/16	57/64	7	10-31/32	1-13/16

XL86 Standard Hex Shank

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
XL86-11/16	11/32	5-3/4	9-3/16	1-1/16
XL86-13/16	35/64	6-3/8	9-3/4	1-1/4
XL86-15/16	11/16	7	10-13/16	1-7/16
XL86-1-1/16	13/16	7	10-15/16	1-5/8
XL86-1-3/16	57/64	7	10-31/32	1-13/16
XL86-1-5/16	1-1/16	7	11-5/16	2
XL86-1-3/8	1-1/16	7-3/8	10	2
XL86-1-7/16	1-1/8	7-3/8	10	2
XL86-1-1/2	1-1-3/16	7-3/8	10	2
XL86-1-9/16	1-1/4	7-3/8	10	2
XL86-1-5/8	1-5/16	7-1/2	13	2

Power Tool: Electric & Pneumatic Tools With Rotary Impact Sockets

Application: Enlarge & Align Holes In Structural Steel. Ideal For Use In Bridge Building Maintenance, Steel Erection, Ship Building, & Other Structural Steel Applications

Features: Left Hand Helix, Right Hand Cut, Surface Treated High Speed Steel

Advantage: Shears Chips Away From Operator, Shank Diameter Of Reamer Matches Socket Size For Bolt Which Will Be Driven Through Newly Reamed Hole

Note: XL86M Features 2 Rare Earth Magnets Embedded In Shank For Safe, Secure Fit In Electric & Pneumatic Tools & Sockets, Complies With OSHA 1926.759 Falling Objects



XL86M

Bridge Reamers



Series 982 | Taper Shank | Spiral Flute

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)	Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Hex Dia (in)
982-7/16	1/4	4-3/8	8-1/4	2	982-1-1/16	3/4	7-3/8	12	3
982-1/2	9/32	5-1/8	9	2	982-1-1/8	13/16	7-3/8	12	3
982-9/16	11/32	5-1/8	9	2	982-1-3/16	7/8	7-3/8	12	3
982-5/8	3/8	6-1/8	10	2	982-1-1/4	15/16	7-3/8	13	4
982-11/16	25/64	7-1/8	11-3/4	3	982-1-5/16	1	7-3/8	13	4
982-3/4	7/16	7-3/8	12	3	982-1-3/8	1-1/16	7-3/8	13	4
982-13/16	1/2	7-3/8	12	3	982-1-7/16	1-1/8	7-3/8	13	4
982-7/8	9/16	7-3/8	12	3	982-1-1/2	1-3/16	7-3/8	13	4
982-15/16	5/8	7-3/8	12	3	982-1-9/16	1-1/4	7-3/8	13	4
982-1	13/16	7-3/8	12	3	982-1-5/8	1-5/16	7-1/2	14-3/8	4



Power Tool: Power Tools With Morse Taper Spindles

Application: Enlarge & Align Holes In Structural Steel. Ideal For Steel Erection, Ship Building, Bridge Fabrication

Features: Spiral Flute, Taper Shank

Bridge Reamers



Series 980 | Taper Shank | Straight Flute

Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Shank No.	Part #	Point Dia (in)	Flute Length (in)	Overall Length (in)	Shank No.
980-7/16	1/4	4-3/8	8-1/4	2	980-15/16	5/8	7-3/8	12	3
980-1/2	9/32	5-1/8	9	2	980-1	11/16	7-3/8	12	3
980-9/16	11/32	5-1/8	9	2	980-1-1/16	3/4	7-3/8	12	3
980-5/8	3/8	6-1/8	10	2	980-1-1/8	13/16	7-3/8	12	3
980-11/16	25/64	7-1/8	11-3/4	3	980-1-3/16	7/8	7-3/8	12	3
980-3/4	7/16	7-3/8	12	3	980-1-1/4	15/16	7-3/8	13	4
980-13/16	1/2	7-3/8	12	3	980-1-5/16	1	7-3/8	13	4
980-7/8	9/16	7-3/8	12	3					



Power Tool: Power Tools With Morse Taper Spindles

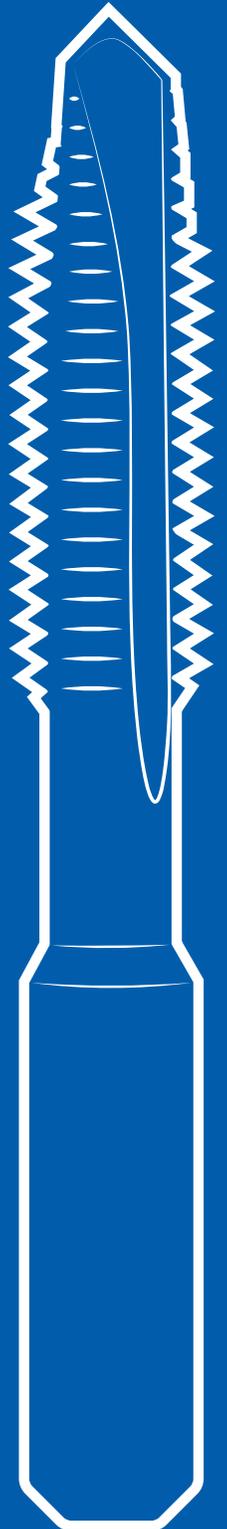
Application: Enlarge & Align Holes In Structural Steel, For Steel Erection, Ship Building, Bridge Fabrication

Features: Straight Flute, Taper Shank

TAPS & DIES

threading made easy.

We Love Taps, But They Are One Of The Most Misunderstood Metalworking Tools. Champion's Streamlined & High Quality Line Of Hand, Spiral Point & Machine Taps Make Choosing A Threading Solution Easy.



Power Tapper

XLT | Tap 10X Faster Than Hand Tapping | Use With XL22 Taps



Application: Ideal For High Production Tapping - For Use With Heavy Duty HSS Taps On Jobsite Or In Shop

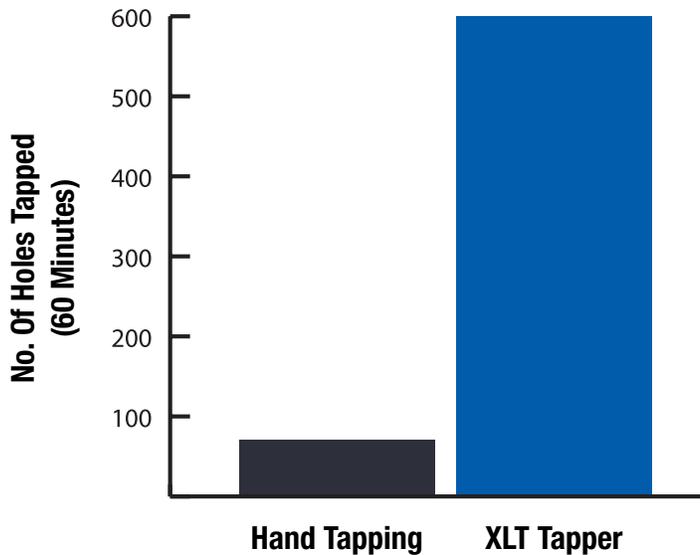
Tap Capacity: Steel #10 up to 9/16" (14mm), Non-Ferrous #10 up to 5/8" (16mm) | **Motor:** 450W | **Weight:** 6 lbs

Features: Automatic Reversing Action, Speed Control, Built-In Pivoting Tap Collet & Safety Clutch, Unique Gearbox For Precision Torque Control, Depth Stop

Advantage: 10x Faster Than Hand Tapping, Less Breakage, Fast & Trouble Free Hole Alignment, High Production Hole Tapping, Thread Perfect Holes Every Time

Contents: Carrying Case, Side Handle, Depth Gauge, 4mm Hex Key

10x Faster Than Hand Tapping



“The job I’m on at Manhattan West in New York City is projected to be about 12,000 man hours. We are working on a residential tower. We had to drill & tap over 600 holes to put a metal shoe that would hold about a 500 pound piece of glass. We were going to originally drill & tap all by hand with a cordless drill... We’re using a 1/2" tap. Hand tapping all these holes would take roughly 3 to 4 weeks & we had about 4 to 6 people on the job. Using the Brute® XLT Tapper it cut back the time to under a week.”

- Matt Gleason, Glazier
Empire Architectural Metal & Glass



Optimal System: Brute® XLT Tapper Works Best With BruteLube Fluid & Brute® XL22 Spiral Point Taps

Tap & Drill Sets

Part #	Contents
TD18-XL	<p>18 Piece - UNC - Heavy Duty</p> <p>Includes Brute® Drills (XL5): 5/16, 27/64, F, U, #7, #21, #25, #29, #36</p> <p>Includes Brute® Spiral Point Taps (XL22): 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13</p>
TD18M-XL	<p>18 Piece - Spiral Point Metric Taps - Heavy Duty</p> <p>Includes Brute® Drills (XL5): #46, #39, #32, #30, #19, #8, H, Q, 13/32</p> <p>Includes Spiral Point Taps (321M): 2.5x.45, 3x.5, 3.5x6, 4x.7, 5x.8, 6x1, 8x1.25, 10x1.5, 12x1.75</p>
TD18M	<p>18 Piece - Metric Hand Taps</p> <p>Includes Drill Sizes (705): 13/32, #8, #19, #30, #32, #39, #46, H, Q</p> <p>Includes Metric HSS Plug Taps (308): 2.5X.45, 3X.5, 3.5X.6, 4X.7, 5X.8, 6X1, 8X1.25, 10X1.5, 12X1.75</p>
TD36-XL	<p>36 Piece - UNC/UNF - Heavy Duty</p> <p>Includes Brute® Drills (XL5): 5/16, 25/64, 27/64, 29/64, #3, #7, #15, #16, #21, #25, #29, #33, #36, F, I, Q, U</p> <p>Includes Brute® Spiral Point Taps (XL22): 6-32, 6-40, 8-32, 8-36, 10-24, 10-32, 12-24, 12-28, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20</p>
TD18-XGO	<p>18 Piece - UNC - BlackGold</p> <p>Includes Drill Sizes (XGO): 5/16, 27/64, #7, #21, #25, #29, #36, F, U</p> <p>Includes HSS Plug Taps (308): 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13</p>

Part #	Contents
TD18	<p>18 Piece - UNC - General Purpose</p> <p>Includes Drill Sizes (705): 5/16, 27/64, #7, #21, #25, #29, #36, F, U</p> <p>Includes HSS Plug Taps (308): 6-32, 8-32, 10-24, 10-32, 1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13</p>
TD18-NF	<p>18 Piece - UNF - General Purpose</p> <p>Includes Drills (705): 25/64, 29/64, #3, #21, #25, #29, #33, I, Q</p> <p>Includes HSS Plug Taps (308): 6-40, 8-36, 10-24, 10-32, 1/4-28, 5/16-24, 3/8-24, 7/16-20, 1/2-20</p>

Tap Sets

Part #	Contents
XL22-5P	<p>5 Piece</p> <p>10-24, 10-32, 12-24, 1/4-20 (2 PC)</p>

Application: For Professionals Who Value The Convenience Of Having Sets With Matching Taps & Drills

Features: Heavy Duty Metal Cases Protect Tools & Keep Tools Organized

Industries: Engineered For Professional Use - Construction, Metalworking, MRO, Automotive, Mechanical



Hand Taps



Series 308 | General Purpose | HSS

Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
308-0-80	H1	2	5/16	1-5/8	308-1/2-20	H3	4	1-21/32	3-3/8
308-1-64	H1	2	3/8	1-11/16	308-9/16-12	H3	4	1-21/32	3-19/32
308-1-72	H1	2	3/8	1-11/16	308-9/16-18	H3	4	1-21/32	3-19/32
308-2-56	H2	3	7/16	1-3/4	308-5/8-11	H3	4	1-13/16	3-13/16
308-2-64	H2	3	7/16	1-3/4	308-5/8-18	H3	4	1-13/16	3-13/16
308-3-48	H2	3	1/2	1-13/16	308-11/16-11	H3	4	1-13/16	4-1/32
308-3-56	H3	3	1/2	1-13/16	308-11/16-16	H3	4	1-13/16	4-1/32
308-4-36	H2	3	9/16	1-7/8	308-3/4-10	H3	4	2	4-1/4
308-4-40	H2	3	9/16	1-7/8	308-3/4-16	H3	4	2	4-1/2
308-4-48	H2	3	9/16	1-7/8	308-7/8-9	H4	4	2-7/32	4-11/16
308-5-40	H3	3	5/8	1-15/16	308-7/8-14	H4	4	2-7/32	4-11/16
308-5-44	H2	3	5/8	1-15/16	308-1-8	H4	4	2-1/2	5-1/8
308-6-32	H3	3	11/16	2	308-1-12	H4	4	2-1/2	5-1/8
308-6-40	H2	3	11/16	2	308-1-14	H4	4	2-1/2	5-1/8
308-8-32	H3	4	3/4	2-1/8	308-1-1/8-7	H4	4	2-9/16	5-7/16
308-8-36	H2	4	3/4	2-1/8	308-1-1/8-12	H4	4	2-9/16	5-7/16
308-10-24	H3	4	7/8	2-3/8	308-1-1/4-7	H4	4	2-9/16	5-3/4
308-10-32	H3	4	7/8	2-3/8	308-1-1/4-12	H4	6	2-9/16	5-3/4
308-12-24	H3	4	15/16	2-3/8	308-1-3/8-6	H4	4	3	6-1/16
308-12-28	H3	4	15/16	2-3/8	308-1-3/8-12	H4	6	3	6-1/16
308-1/4-20	H3	4	1	2-1/2	308-1-1/2-6	H4	4	3	6-3/8
308-1/4-28	H3	4	1	2-1/2	308-1-1/2-12	H4	6	3	6-3/8
308-5/16-18	H3	4	1-1/8	2-23/32					
308-5/16-24	H3	4	1-1/8	2-23/32					
308-3/8-16	H3	4	1-1/4	2-15/16					
308-3/8-24	H3	4	1-1/4	2-15/16					
308-7/16-14	H3	4	1-7/16	3-5/32					
308-7/16-20	H3	4	1-7/16	3-5/32					
308-1/2-13	H3	4	1-21/32	3-3/8					

Specify Taper (T), Bottom (B), Plug (P), Or Set (S)

When Placing Order. Set Includes 1 Ea Taper, Bottom, Plug



Hand Tool / Power Tool: Handheld Tap Wrenches, Production Tapping Heads In Drill Press

Application: Industrial Quality For General Purpose Tapping. Tap Low To Medium Steel Alloys

Features: Square Shank, High Quality HSS

Advantage: Faster, More Accurate Tapping Than Carbon Taps

Note: Available In iPAC Merchandisable Pack

Spiral Point Taps



Series XL22 | Plug Style | 3 Flute | Heavy Duty | HSS

XL22

Part #	H Limits	Thread Length (in)	Overall Length (in)
XL22-4-40	H2	9/16	2
XL22-6-32	H3	11/16	2
XL22-6-40	H2	11/16	2
XL22-8-32	H3	3/4	2-1/8
XL22-8-36	H2	3/4	2-1/8
XL22-10-24	H3	7/8	2-3/8
XL22-10-32	H3	7/8	2-3/8
XL22-12-24	H3	15/16	2-3/8
XL22-12-28	H3	15/16	2-3/8
XL22-1/4-20	H3	1	2-1/2
XL22-1/4-28	H3	1	2-1/2
XL22-5/16-18	H3	1-1/8	2-3/4

Part #	H Limits	Thread Length (in)	Overall Length (in)
XL22-5/16-24	H3	1-1/8	2-3/4
XL22-3/8-16	H3	1-1/4	2-15/16
XL22-3/8-24	H3	1-1/4	2-15/16
XL22-7/16-14	H3	1-7/16	3-5/32
XL22-7/16-20	H3	1-7/16	3-5/32
XL22-1/2-13	H3	1-21/32	3-3/8
XL22-1/2-20	H3	1-21/32	3-3/8
XL22-5/8-11	H3	1-13/16	3-13/16
XL22-5/8-18	H3	1-13/16	3-13/16
XL22-3/4-10	H3	2	4-1/4
XL22-3/4-16	H3	2	4-1/4



XL22T Titanium Nitride Coated

Part #	H Limits	Thread Length (in)	Overall Length (in)
XL22T-4-40	H2	9/16	2
XL22T-6-32	H3	11/16	2
XL22T-6-40	H2	11/16	2
XL22T-8-32	H3	3/4	2-1/8
XL22T-8-36	H2	3/4	2-1/8
XL22T-10-24	H3	7/8	2-3/8
XL22T-10-32	H3	7/8	2-3/8
XL22T-12-24	H3	15/16	2-3/8
XL22T-12-28	H3	15/16	2-3/8
XL22T-1/4-20	H3	1	2-1/2
XL22T-1/4-28	H3	1	2-1/2
XL22T-5/16-18	H3	1-1/8	2-3/4



Part #	H Limits	Thread Length (in)	Overall Length (in)
XL22T-5/16-24	H3	1-1/8	2-3/4
XL22T-3/8-16	H3	1-1/4	2-15/16
XL22T-3/8-24	H3	1-1/4	2-15/16
XL22T-7/16-14	H3	1-7/16	3-5/32
XL22T-7/16-20	H3	1-7/16	3-5/32
XL22T-1/2-13	H3	1-21/32	3-3/8
XL22T-1/2-20	H3	1-21/32	3-3/8
XL22T-5/8-11	H3	1-13/16	3-13/16
XL22T-5/8-18	H3	1-13/16	3-13/16
XL22T-3/4-10	H3	2	4-1/4
XL22T-3/4-16	H3	2	4-1/4



Hand Tool / Power Tool: XLT Tapper, CNC Machine, Handheld Tap Wrench, Mag Drill With Tapping Collet

Application: Steel, Stainless, & Other Tough Alloys. Ideal For Through Hole Applications

Features: 3 Flute, Spiral Point, Special Necked Design, Surface Treated High Speed Steel

Benefits: Tap Quickly & Accurately, Quickly Shears & Ejects Chips Ahead of Tap, Deeper, Trouble Free Tapping & Less Tap Breakage, Heat Resistance & Longer Tool Life

Note: XL22T Features a TiN Coating For Increased Tool Life & Tapping Through Tougher Materials

Note: Available In iPAC Merchandisable Pack

XL22

Spiral Point Taps



Series 321 | Plug Style | HSS

Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
321-0-80	H1	2	5/16	1-5/8	321-10-32	H3	2	7/8	2-3/8
321-1-64	H1	2	3/8	1-11/16	321-12-24	H3	2	15/16	2-3/8
321-1-72	H1	2	3/8	1-11/16	321-12-28	H3	2	15/16	2-3/8
321-2-56	H2	2	7/16	1-3/4	321-1/4-20	H3	2	1	2-1/2
321-2-64	H2	2	7/16	1-3/4	321-1/4-28	H3	2	1	2-1/2
321-3-48	H2	2	1/2	1-13/16	321-5/16-18	H3	2	1-1/8	2-23/32
321-3-56	H2	2	1/2	1-13/16	321-5/16-24	H3	2	1-1/8	2-23/32
321-4-36	H2	2	9/16	1-7/8	321-3/8-16	H3	3	1-1/4	2-15/16
321-4-40	H2	2	9/16	1-7/8	321-3/8-24	H3	3	1-1/4	2-15/16
321-4-48	H2	2	9/16	1-7/8	321-7/16-14	H3	3	1-7/16	3-5/32
321-5-40	H2	2	5/8	1-15/16	321-7/16-20	H3	3	1-7/16	3-5/32
321-5-44	H2	2	5/8	1-15/16	321-1/2-13	H3	3	1-21/32	3-3/8
321-6-32	H2	2	11/16	2	321-1/2-20	H3	3	1-21/32	3-3/8
321-6-40	H2	2	11/16	2	321-5/8-11	H3	3	1-13/16	3-13/16
321-8-32	H2	2	3/4	2-1/8	321-5/8-18	H3	3	1-13/16	3-13/16
321-8-36	H2	2	3/4	2-1/8	321-3/4-10	H3	3	2	4-1/4
321-10-24	H3	2	7/8	2-3/8	321-3/4-16	H3	3	2	4-1/4



Hand Tool / Power Tool: XLT Tapper, CNC Machine, Handheld Tap Wrench

Application: Tap Quickly In Through Hole Applications

Features: Spiral Point, High Quality HSS

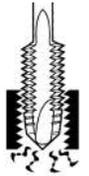
Advantage: Shears & Ejects Chips Ahead Of The Tap, Tap Faster, Longer, & More Accurate Than Carbon Taps

Spiral Point Taps



Series 321T | Plug Style | Titanium Nitride Coated | HSS

Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	H Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
321T-0-80	H1	2	5/16	1-5/8	321T-10-32	H3	2	7/8	2-3/8
321T-1-64	H1	2	3/8	1-11/16	321T-12-24	H3	2	15/16	2-3/8
321T-1-72	H1	2	3/8	1-11/16	321T-12-28	H3	2	15/16	2-3/8
321T-2-56	H2	2	7/16	1-3/4	321T-1/4-20	H3	2	1	2-1/2
321T-2-64	H2	2	7/16	1-3/4	321T-1/4-28	H3	2	1	2-1/2
321T-3-48	H2	2	1/2	1-13/16	321T-5/16-18	H3	2	1-1/8	2-23/32
321T-3-56	H2	2	1/2	1-13/16	321T-5/16-24	H3	2	1-1/8	2-23/32
321T-4-36	H2	2	9/16	1-7/8	321T-3/8-16	H3	3	1-1/4	2-15/16
321T-4-40	H2	2	9/16	1-7/8	321T-3/8-24	H3	3	1-1/4	2-15/16
321T-4-48	H2	2	9/16	1-7/8	321T-7/16-14	H3	3	1-7/16	3-5/32
321T-5-40	H2	2	5/8	1-15/16	321T-7/16-20	H3	3	1-7/16	3-5/32
321T-5-44	H2	2	5/8	1-15/16	321T-1/2-13	H3	3	1-21/32	3-3/8
321T-6-32	H3	2	11/16	2	321T-1/2-20	H3	3	1-21/32	3-3/8
321T-6-40	H2	2	11/16	2	321T-5/8-11	H3	3	1-13/16	3-13/16
321T-8-32	H3	2	3/4	2-1/8	321T-5/8-18	H3	3	1-13/16	3-13/16
321T-8-36	H2	2	3/4	2-1/8	321T-3/4-10	H3	3	2	4-1/4
321T-10-24	H3	2	7/8	2-3/8					



Hand Tool / Power Tool: XLT Tapper, CNC Machine, Handheld Tap Wrench

Application: Tap Quickly In Through Hole Applications

Features: Spiral Point, High Quality HSS

Advantage: Shears & Ejects Chips Ahead Of The Tap, Tap Faster, Longer, & More Accurate Than Carbon Taps, TiN Coating For Increased Tool Life & Tapping Through Tougher Materials

Metric Taps



Series XL22M | Plug Style | Heavy Duty | Spiral Point | HSS

Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
XL22M-2.5X.45	D3	2	1/2	1-13/16	XL22M-8X1.25	D5	3	1-1/8	2-23/32
XL22M-3X.5	D3	2	5/8	1-15/16	XL22M-10X1.5	D6	3	1-1/4	2-15/16
XL22M-3.5X.6	D4	2	11/16	2	XL22M-12X1.75	D6	3	1-21/32	3-3/8
XL22M-4X.7	D4	3	3/4	2-1/8	XL22M-14X2	D7	3	1-21/32	3-19/32
XL22M-5X.8	D4	3	7/8	2-3/8	XL22M-16X2	D7	3	1-13/16	3-13/16
XL22M-6X1	D5	3	1	2-1/2					

Hand Tool / Power Tool: XLT Tapper, CNC Machine, Handheld Tap Wrench, Mag Drill With Tap Collet

Application: Steel, Stainless, & Other Tough Alloys. Ideal For Through Hole Applications

Features: Spiral Point, Special Necked Design, Surface Treated High Speed Steel, Metric

Benefits: Tap Quickly & Accurately, Quickly Shears & Ejects Chips Ahead of Tap, Deeper, Trouble Free Tapping & Less Tap Breakage, Heat Resistance & Longer Tool Life



Metric Taps



Series 321M | Plug Style | General Purpose | Spiral Point | HSS

Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
321M-2X.4	D3	2	7/16	1-3/4	321M-8X1	D5	3	1-1/8	2-23/32
321M-2.5X.45	D3	2	1/2	1-13/16	321M-8X1.25	D5	2	1-1/8	2-23/32
321M-3X.5	D3	2	5/8	1-15/16	321M-10X1.5	D6	3	1-1/4	2-15/16
321M-4X.7	D4	2	3/4	2-1/8	321M-12X1.75	D6	3	1-21/32	3-3/8
321M-4.5X.75	D4	2	7/8	2-3/8	321M-14X2	D7	3	1-21/32	3-19/32
321M-5X.8	D4	2	7/8	2-3/8	321M-16X2	D7	3	1-13/16	3-13/16
321M-6X1	D5	2	1	2-1/2	321M-18X2.5	D7	3	1-13/16	4-1/32
321M-7X1	D5	2	1-1/8	2-23/32	321M-20X2.5	D7	3	2	4-15/32

Hand Tool / Power Tool: XLT Tapper, CNC Machine, Handheld Tap Wrench

Application: Tap Quickly In Through Hole Applications

Features: Spiral Point, High Quality HSS, Metric

Advantage: Shears & Ejects Chips Ahead Of The Tap, Tap Faster, Longer, & More Accurate Than Carbon Taps



Metric Taps



Series 308M | General Purpose | Hand Taps | HSS

Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)	Part #	D Limits	No. Of Flutes	Thread Length (in)	Overall Length (in)
308M-2X.4	D3	3	7/16	1-3/4	308M-12X1.75	D6	4	1-21/32	3-19/32
308M-2.5X.45	D3	3	1/2	1-13/16	308M-14X1.5	D6	4	1-21/32	3-19/32
308M-3X.5	D3	3	5/8	1-15/16	308M-14X2	D7	4	1-13/16	3-13/16
308M-3X.6	D3	3	11/16	2	308M-16X1.5	D6	4	1-13/16	3-13/16
308M-4X.7	D4	4	3/4	2-1/8	308M-16X2	D7	4	1-13/16	3-13/16
308M-4X.75	D4	4	7/8	2-3/8	308M-18X1.5	D6	4	1-13/16	4-1/32
308M-5X.8	D4	4	7/8	2-3/8	308M-18X2.5	D7	4	1-13/16	4-1/32
308M-5X.9	D8	8	7/8	2-3/8	308M-20X2.5	D7	4	2-7/32	4-7/16
308M-6X1	D5	4	15/16	2-3/8	308M-22X2.5	D7	4	2-7/32	4-11/16
308M-7X1	D5	4	1-1/8	2-23/32	308M-24X3	D8	4	2-7/32	4-29/32
308M-8X1	D5	4	1-1/8	2-23/32	308M-27X3	D8	4	2-9/16	5-1/8
308M-8X1.25	D5	4	55/64	2-53/64	308M-30X3.5	D9	4	2-9/16	5-7/16
308M-9X1	D5	4	1-1/4	2-15/16	308M-36X4	D9	4	3-3/16	6
308M-10X1.25	D5	6	1-1/4	2-15/16					
308M-10X1.5	D6	4	1-1/4	2-15/16					
308M-12X1.25	D5	4	1-21/32	3-3/8					

Specify Taper (T), Bottom (B), Plug (P), Or Set (S)

When Placing Order. Set Includes 1 Ea Taper, Bottom, Plug



Hand Tool / Power Tool: Tap Wrenches Or Production Tapping Heads

Application: Industrial Quality For General Purpose Tapping. Tap Low To Medium Steel Alloys

Features: Square Shank, High Quality HSS, Metric

Advantage: Faster, More Accurate Tapping Than Carbon Taps

Spiral Flute Taps



Series XL46 | Heavy Duty | HSS

Part #	H Limits	No. Of Flutes	Thread Length	Overall Length
XL46-6-32	H3	2	11/16	2
XL46-8-32	H3	3	3/4	2-1/8
XL46-10-24	H3	3	7/8	2-3/8
XL46-10-32	H3	3	7/8	2-3/8
XL46-12-24	H3	3	15/16	2-3/8
XL46-1/4-20	H3	3	1	2-1/2
XL46-1/4-28	H3	3	1	2-1/2
XL46-5/16-18	H3	3	1-1/8	2-23/32
XL46-5/16-24	H3	3	1-1/8	2-23/32
XL46-3/8-16	H3	3	1-1/4	2-15/16
XL46-3/8-24	H3	3	1-1/4	2-15/16
XL46-7/16-14	H3	3	1-7/16	3-5/32
XL46-7/16-20	H3	3	1-7/16	3-5/32
XL46-1/2-13	H3	3	1-21/32	3-3/8
XL46-1/2-20	H3	3	1-21/32	3-3/8

Specify Bottom (B), Or Plug (P)



Power Tool: CNC Machine

Application: Steel Alloys In Blind Hole Applications

Features: Spiral Flute, High Quality HSS

Advantage: Lifts Chips Out Of Hole For Fast Tapping, High Performance, Precision Threading

Hand Taps

Series 302 | Carbon Steel | Economical

302

Part #	No. Of Flutes	Thread Length	Overall Length
302-4-40	3	9/16	1-7/8
302-5-40	3	5/8	1-15/16
302-5-44	3	5/8	1-15/16
302-6-32	3	11/16	2
302-6-40	3	11/16	2
302-8-32	4	3/4	2-1/8
302-8-36	4	3/4	2-1/8
302-10-24	4	7/8	2-3/8
302-10-32	4	7/8	2-3/8
302-12-24	4	15/16	2-3/8
302-12-28	4	15/16	2-3/8
302-1/4-20	4	1	2-1/2
302-1/4-28	4	1	2-1/2
302-5/16-18	4	1-1/8	2-23/32
302-5/16-24	4	1-1/8	2-23/32
302-3/8-16	4	1-1/4	2-15/16
302-3/8-24	4	1-1/4	2-15/16
302-7/16-14	4	1-7/16	3-5/32
302-7/16-20	4	1-7/16	3-5/32
302-1/2-13	4	1-21/32	3-3/8
302-1/2-20	4	1-21/32	3-3/8

Part #	No. Of Flutes	Thread Length	Overall Length
302-9/16-12	4	1-21/32	3-19/32
302-9/16-18	4	1-21/32	3-19/32
302-5/8-11	4	1-13/16	3-13/16
302-5/8-18	4	1-13/16	3-13/16
302-3/4-10	4	2	4-1/4
302-3/4-16	4	2	4-1/4
302-7/8-9	4	2-7/32	4-11/16
302-7/8-14	4	2-7/32	4-11/16
302-1-8	4	2-1/2	5-1/8
302-1-12	4	2-1/2	5-1/8
302-1-14	4	2-1/2	5-1/8
302-1-1/8-7	4	2-9/16	5-7/16
302-1-1/8-12	4	2-9/16	5-7/16
302-1-1/4-7	4	2-9/16	5-3/4
302-1-1/4-12	6	2-9/16	5-3/4
302-1-3/8-6	4	3	6-1/16
302-1-3/8-12	6	3	6-1/16
302-1-1/2-6	4	3	6-3/8
302-1-1/2-12	6	3	6-3/8

Specify Taper (T), Bottom (B), Plug (P), Or Set (S)

When Placing Order. Set Includes 1 Ea Taper, Bottom, Plug

302M Metric

Part #	No. Of Flutes	Thread Length	Overall Length
302M-3X.5-P	3	5/8	1-5/16
302M-3X.6-P	3	5/8	1-5/16
302M-4X.7-P	4	3/4	2-1/8
302M-4X.75-P	4	3/4	2-1/8
302M-5X.8-P	4	15/16	2-3/8
302M-5X.9-P	4	15/16	2-3/8
302M-6X1-P	4	1	2-1/2
302M-7X1-P	4	1-1/8	2-1/2
302M-8X1.25-P	4	1-1/8	2-23/32
302M-9X1-P	4	1-1/4	2-7/8
302M-9X1.25-P	4	1-1/4	2-7/8

Part #	No. Of Flutes	Thread Length	Overall Length
302M-10X1.25-P	4	1-1/4	2-15/16
302M-10X1.5-P	4	1-1/4	2-15/16
302M-11X1.5-P	4	1-7/16	3-5/32
302M-12X1.5-P	4	1-21/32	3-3/8
302M-12X1.75-P	4	1-21/32	3-3/8
302M-14X1.25-P	4	1-21/32	3-21/32
302M-14X2-P	4	1-21/32	3-21/32
302M-16X1.5-P	4	1-13/16	3-13/16
302M-16X2-P	4	1-13/16	3-13/16
302M-18X1.5-P	4	1-13/16	4-1/32
302M-18X2.5-P	4	1-13/16	4-1/32

Only Available In Plug (P) Style



Hand Tool: Handheld Tap Wrench

Application: Re-Threading Applications, Maintenance & Repair Work

Combination Drill & Taps



Series DT22 | HSS | Square Shank

DT22

Part #	Overall Length	Drill Length	Drill Dia	Tap Length	Part #	Overall Length	Drill Length	Drill Dia	Tap Length
DT22-4-40	1-7/8	1/4	.0910	3/8	DT22-12-28	2-3/8	15/32	.1860	21/32
DT22-4-48	1-7/8	1/4	.0945	3/8	DT22-1/4-20	2-1/2	17/32	.2080	25/32
DT22-5-40	1-15/16	9/32	.1040	13/32	DT22-1/4-28	2-1/2	17/32	.2220	25/32
DT22-5-44	1-15/16	9/32	.1060	13/32	DT22-5/16-18	2-27/32	11/16	.2660	15/16
DT22-6-32	2	5/16	.1115	7/16	DT22-5/16-24	2-27/32	11/16	.2770	15/16
DT22-6-40	2	5/16	.1170	7/16	DT22-3/8-16	3-3/8	13/16	.3225	1-1/16
DT22-8-32	2-1/8	3/8	.1375	1/2	DT22-3/8-24	3-3/8	13/16	.3395	1-1/16
DT22-8-36	2-1/8	3/8	.1405	1/2	DT22-7/16-14	3-3/4	1	.3770	1-1/4
DT22-10-24	2-3/8	13/32	.1545	5/8	DT22-7/16-20	3-3/4	1	.3955	1-1/4
DT22-10-32	2-3/8	13/32	.1635	5/8	DT22-1/2-13	4-1/16	1-1/8	.4350	1-3/8
DT22-12-24	2-3/8	15/32	.1805	21/32	DT22-1/2-20	4-1/16	1-1/8	.4580	1-3/8



Power Tool: Power Tools With Square Drive Tap Collets & Reversing Capabilities

Application: Drill & Tap Through Metal In A Single Operation, Drill & Tap Aluminum, Steel, Stainless Steel, Bronze, Cast Iron

Features: Spiral Flute, 118° Point, Tapered Neck Design

Advantage: No Center Drilling Or Punching Required, Drill & Tap Breakage Reduced, Holes & Threads Can Be Cut At High Speeds

Combination Drill & Taps



Series DT22HEX | Hex Shank | Black & Gold

DT22HEX

Part #	Drill Length	Drill Dia	Tap Length	Overall Length
DT22HEX-6-32	5/16	7/64	7/16	2-5/16
DT22HEX-8-32	5/16	#29	1/2	2-1/2
DT22HEX-10-24	5/16	#25	5/8	2-1/2
DT22HEX-10-32	5/16	#21	5/8	2-1/2
DT22HEX-12-24	3/8	#17	11/16	2-3/8
DT22HEX-1/4-20	7/16	#6	3/4	2-7/8
DT22HEX-1/4-28	7/16	#3	3/4	2-7/8
DT22HEX-5/16-18	1/2	G	15/16	3-1/4

* Sizes 6-32 to 5/16-24 Have 1/4" Hex Shanks
 Sizes 3/16 To 1/2-20 Have 11/32" Hex Shanks

Part #	Drill Length	Drill Dia	Tap Length	Overall Length
DT22HEX-5/16-24	3-1/4	1/2	I	2-27/32
DT22HEX-3/8-16	3-1/2	3/4	5/16	3-3/8
DT22HEX-3/8-24	3-1/2	3/4	Q	3-3/8
DT22HEX-7/16-14	3-7/8	3/4	U	3-3/4
DT22HEX-7/16-20	3-7/8	3/4	25/64	3-3/4
DT22HEX-1/2-13	4	1	27/64	4-1/16
DT22HEX-1/2-20	4	1	29/64	4-1/16

DT22HEXM Metric

Part #	Overall Length	Drill Length	Drill Dia	Tap Length
DT22HEX-M4x.7	2-7/16	5/16	#30	1/2
DT22HEX-M5x.8	2-1/2	3/8	#19	9/16
DT22HEX-M6x1	2-3/4	3/8	#9	11/16
DT22HEX-M8x1.25	3-1/8	1/2	.17/64	7/8
DT22HEX-M10x1.5	3-1/4	3/4	Q	15/16
DT22HEX-M12x1.75	3-5/8	7/8	Y	1-1/16

Sets

Part #	Qty	Contents
DT22HEX-SET-MET6	6 Piece	4x.7, 5x.8, 6x1, 8x1.25, 10x1.5, 12x1.75
DT22HEX-SET10	10 Piece	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
DT22HEX-SET-NC5	5 Piece	1/4-20, 5/16-18, 3/8-16, 7/16-14, 1/2-13
DT22HEX-SET-MS5	5 Piece	6-32, 8-32, 10-24, 10-32, 12-24

Power Tool: Impact Drivers, Handheld Power Drills, Mag Drill With Forward / Reverse Capability

Application: Drill & Tap Through Metal In A Single Operation , Heavy Duty Applications, Drill & Tap Aluminum, Steel, Stainless Steel, Bronze, Cast Iron

Features: 1/4" Hex Shank, Spiral Flute, 135° Split Point, Tapered Neck Design, Longer Drill & Tap Flutes Than Similar Tools On Market, Black & Gold Surface Treatment

Advantage: Will Not Walk On Workpiece, Drill & Tap Breakage Reduced, Holes & Threads Can Be Cut At High Speeds, Threading Of Thick Steel, Increase Tool Life



Pipe Taps



Series 324 | NPT | Taper | Ground Thread | HSS

Part #	No. Of Flutes	Thread Length	Overall Length
324-1/16-27	4	11/16	2-1/8
324-1/8-27	4	3/4	2-1/8
324-1/4-18	4	1-1/16	2-7/16
324-3/8-18	4	1-1/16	2-9/16
324-1/2-14	4	1-3/8	3-1/8
324-3/4-14	5	1-3/8	3-1/4
324-1-11-1/2	5	1-3/4	3-3/4
324-1-1/4-11-1/2	5	1-3/4	4
324-1-1/2-11-1/2	7	1-3/4	4-1/4
324-2-11-1/2	7	1-3/4	4-1/2



Hand Tool: Tap Wrenches

Application: Tapping Of Pipe & Pipe Fittings, Designed To Cut Threads Where Mated Parts Are Not Required To Withstand High Fluid Or Gas Pressure. Applications Where Use Of Sealing Compound Or Tape Is Used To Produce Leakproof Thread

Features: Regular Hook, 3/4" Taper Per Foot, NPT, HSS

Pipe Taps



Series 325 | NPS | Straight | Ground Thread | HSS

Part #	No. Of Flutes	Thread Length	Overall Length
325-1/8-27	4	3/4	2-1/8
325-1/4-18	4	1-1/16	2-7/16
325-3/8-18	4	1-1/16	2-9/16
325-1/2-14	4	1-3/8	3-1/8
325-3/4-14	5	1-3/8	3-1/4
325-1-11-1/2	5	1-3/4	3-3/4



Hand Tool: Tap Wrenches

Application: For Tapping Holes Or Couplings. For Low Pressure Work To Assemble With Taper Threaded Pipe Or Fittings To Secure A Tight Joint When A Sealer Is Used

Features: NPS, HSS

Pipe Taps

Series 304 | NPT | Taper | Carbon Steel

Part #	No. Of Flutes	Thread Length	Overall Length
304-1/8-27	4	3/4	2-1/8
304-1/4-18	4	1-1/16	2-7/16
304-3/8-18	4	1-1/16	2-9/16
304-1/2-14	4	1-3/8	3-1/8
304-3/4-14	5	1-3/8	3-1/4
304-1-11-1/2	5	1-3/4	3-3/4
304-1-1/4-11-1/2	5	1-3/4	4
304-1-1/2-11-1/2	6	1-3/4	4-1/4
304-2-11-1/2	6	1-3/4	4-1/2
304-2-1/2-8	6	1-3/4	4-1/2
304-3-8	6	1-3/4	4-1/2

Diameter Of Tap Increases From The Entering End Of The Thread Portion At The Rate Of 3/4" Per Foot;
The Angle Formed By The Sides Of The Thread Is 60°

Hand Tool: Tap Wrenches

Application: Re-Thread Or Clean Up Damaged Or Rusty Threads In Low To Medium Alloys

Features: 3/4" Taper Per Foot, NPT



Tap Wrenches



Series 3002/2002 | 'T' Handle

'T' Handle

Part #	Overall Length
3002-1	1/16 - 1/4
3002-2	7/32 - 1/2
2002-1	0 - 1/4
2002-2	1/4 - 1/2



'T' Handle - Ratchet Style

Part #	Overall Length
3002-3	1/16 - 1/4
3002-4	7/32 - 1/2



Application: Hand Tapping Applications - Use With Square Shank Taps. Make Sure Tap & Drilled Hole Are Correctly Aligned For Precision Threading. Make Sure Hole Drilled Is Correct Size Hole To Prevent Tap Breakage

Tap Wrenches



Series 3001 | Bar Handle

Part #	Dia Small End	Dia Large End
3001-0	7-1/2	1/16 - 1/4
3001-15	11-1/2	5/32 - 1/2
3001-13	15-1/2	5/32 - 3/4
3001-7	19-1/2	1/4-1-1-1/8
3001-8	42-1/2	3/4-1-5/8
3001-22	56-1/2	1-2-1/2



Application: Hand Tapping Applications - Use With Square Shank Taps. Make Sure Tap & Drilled Hole Are Correctly Aligned For Precision Threading. Make Sure Hole Drilled Is Correct Size Hole To Prevent Tap Breakage

Die Stocks



Series 3292

Part #	Overall Length
3292X1	9-1/2
3292X1-7/16	13

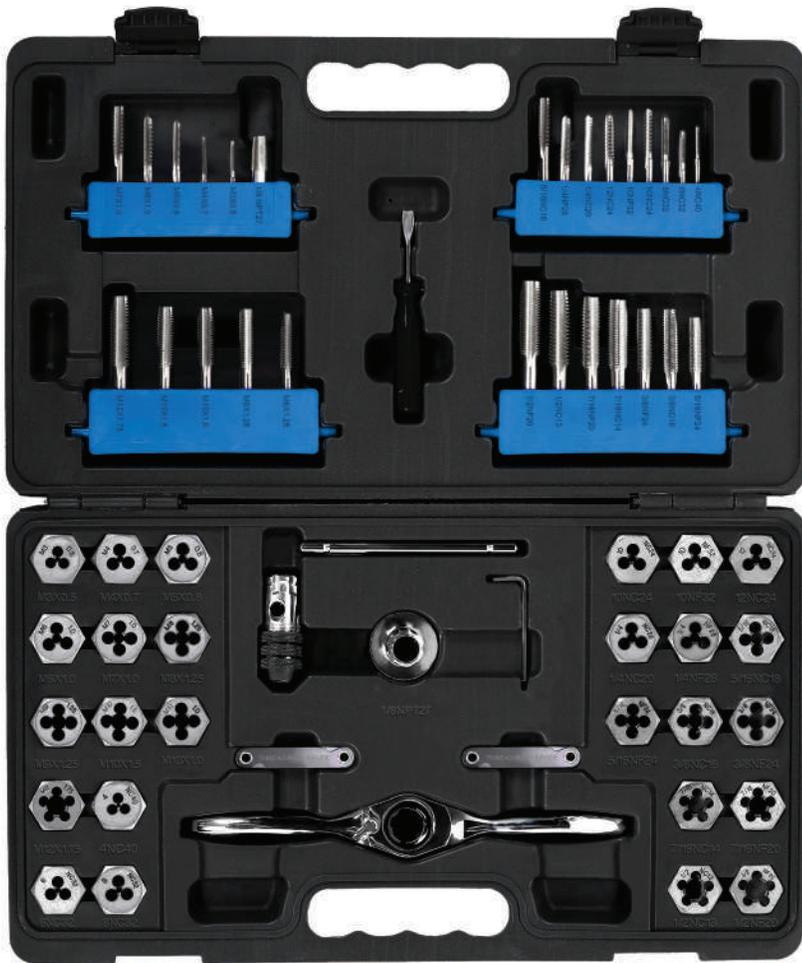


Application: For use With Champion CS30 & CS30M Hex Dies

Tap & Die Sets

HSS Taps | Ratcheting Style Wrench | Quick-Change Tool Holders

Part #	Contents
CS40P-A	<p>40 Piece - UNC / UNF</p> <p>HSS Plug Taps – Hex Dies: 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 1/8-27 NPT</p> <p>Hardware: Ratcheting Wrench, Tap Holder, Hex Die Holder, Hex Key, T-Handle Bar, Thread Pitch Gauge, Screwdriver</p> 
CS40MP-A	<p>40 Piece - METRIC</p> <p>HSS Plug Taps – Hex Dies: 3x.5, 3x.6, 4x.7, 4x.75, 5x.8, 5x.9, 6x1.0, 7x1.0, 8x1.25, 9x1.0, 9x1.25, 10x1.25, 10x1.5, 11x1.5, 12x1.5, 12x1.75, 1/8-28 BSP</p> <p>Hardware: Ratcheting Wrench, Tap Holder, Hex Die Holder, Hex Key, T-Handle Bar, Thread Pitch Gauge, Screwdriver</p> 
CS60P-A	<p>62 Piece - UNC / UNF / METRIC</p> <p>HSS Plug Taps – Hex Dies (UNC / UNF): 4-40, 6-32, 8-32, 10-24, 10-32, 12-24, 1/4-20, 1/4-28, 5/16-18, 5/16-24, 3/8-16, 3/8-24, 7/16-14, 7/16-20, 1/2-13, 1/2-20, 1/8-27 NPT</p> <p>HSS Plug Taps – Hex Dies (METRIC): 3x.5, 4x.7, 5x.8, 6x1.0, 7x1.0, 8x1.25, 9x1.25, 10x1.0, 10x1.5, 12x1.75</p> <p>Hardware: Ratcheting Wrench, Tap Holder, Hex Die Holder, T-Handle Bar, Thread Pitch Gauges (2), Screwdriver, Hex Key</p> 



Cut Internal Threads



Cut External Threads

Application: Cut Clean, Precise Threads In Metal. Use Taps To Cut Internal Threads, Use Dies To Cut External Threads

Features: Industrial Performance Set, Includes High Speed Steel Plug Taps & Hex Dies, Ratcheting Style Wrench - Better Torque Control & Forward / Reverse Operations, Quick-Change Tap Holder & Quick-Change Die Holder For Fast Tool Swap-Out & Productive Threading

Industries: Engineered For Professional Use - Construction, Metalworking, MRO, Automotive, Mechanical

Hexagon Rethreading Dies

Series 330 / 330M | Standard, Metric | Carbon Steel

330 - Standard

Part #	(a) Size Across Flats	(b) Die Thickness
330-6-32	19/32	1/4
330-8-32	19/32	1/4
330-10-24	19/32	1/4
330-10-32	19/32	1/4
330-12-24	19/32	1/4
330-12-28	19/32	1/4
330-1/4-20	19/32	1/4
330-1/4-28	19/32	1/4
330-5/16-18	11/16	5/16
330-5/16-24	11/16	5/16
330-3/8-16	25/32	3/8
330-3/8-24	25/32	3/8
330-7/16-14	7/8	7/16
330-7/16-20	7/8	7/16
330-1/2-13	1-1/16	1/2
330-1/2-20	1-1/16	1/2
330-9/16-12	1-1/16	1/2
330-9/16-18	1-1/16	1/2
330-5/8-11	1-1/4	5/8
330-5/8-18	1-1/4	5/8
330-11/16-11	1-7/16	3/4
330-11/16-16	1-7/16	3/4
330-3/4-10	1-7/16	3/4
330-3/4-16	1-7/16	3/4
330-7/8-9	1-5/8	7/8
330-7/8-14	1-5/8	7/8
330-1-8	1-13/16	1
330-1-12	1-13/16	1
330-1-14	1-13/16	1
330-1-1/8-7	2	1
330-1-1/8-12	2	1

Part #	(a) Size Across Flats	(b) Die Thickness
330-1-1/4-7	2-3/16	1
330-1-1/4-12	2-3/16	1
330-1-3/8-6	2-3/8	1
330-1-3/8-12	2-3/8	1
330-1-1/2-6	2-9/16	1
330-1-1/2-12	2-9/16	1
330-1-3/4-5	3	1
330-1-3/4-12	3	1
330-2-4-1/2	3-7/16	1-1/4
330-2-12	3-7/16	1-1/4
330-2-1/4-4-1/2	3-3/4	1-1/4
330-2-1/4-12	3-3/4	1-1/4
330-2-1/2-4	4-1/4	1-7/16
330-2-1/2-12	4-1/4	1-7/16
330-1/8NPT	1-1/16	3/8
330-1/4NPT	1-1/4	5/8
330-3/8NPT	1-7/16	5/8
330-1/2NPT	1-5/8	3/4
330-3/4NPT	2	13/16
330-1 NPT	2-3/8	1

CS30 - Economical

Part #	(a) Size Across Flats	(b) Die Thickness
CS30-1/8-27-NPT	1-7/8	3/4

CS30 Economical Series Also Available From 4-40 to 1-14

CS30 Size Across Flats From 4-40 to 1/2-20 is 1"

CS30 Size Across Flats From 9/16-18 to 3/4-16 is 1-7/16"

CS30 Size Across Flats From 7/8-9 to 1-14 is 1-7/8"

Hardware: Any Open End, Box Or Adjustable Wrench

Application: Dress Over Bruised Or Rusty Threads - Also Known As Thread Chasers

Features: Chamfered On Both Sides, Double The Tool Life Of Single Chamfer Style

330M - Metric

Part #	(a) Size Across Flats	(b) Die Thickness
330M-3X.5	0.710	1/4
330M-3.5x.6	0.710	1/4
330M-4x.7	0.710	1/4
330M-4.5x.75	0.710	1/4
330M-5x.8	0.710	1/4
330M-6x1	0.710	1/4
330M-7x1	0.820	5/16
330M-8x1	0.820	5/16
330M-8x1.25	0.820	5/16
330M-10x1.25	0.820	5/16
330M-10x1.5	0.920	7/16
330M-12x1.25	1.100	1/2
330M-12x1.75	1.100	1/2
330M-14x1.5	1.300	1/2
330M-14x2	1.300	5/8
330M-16x2	1.300	5/8
330M-18x1.5	1.480	11/16
330M-18x2.5	1.480	11/16
330M-20x1.5	1.480	5/8

Part #	(a) Size Across Flats	(b) Die Thickness
330M-20x2.5	1.480	11/16
330M-22x2.5	1.670	13/16
330M-24x3	2.050	15/16
330M-27x3	2.220	1-1/16

CS30M - Economical

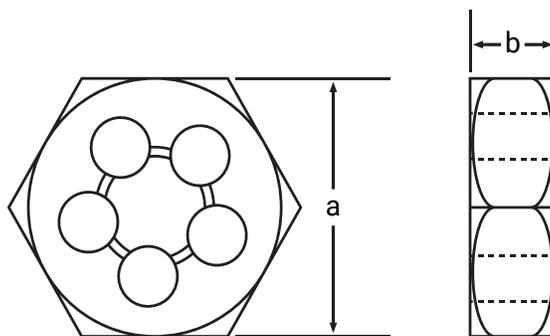
Part #	(a) Size Across Flats	(b) Die Thickness
CS30M-1/8-28-BSP	1	3/8

CS30M Economical Series Available From 3x.5 to 18x2.5

CS30M Size Across Flats From 3x.5 to 12x1.75 is 1"

CS30M Size Across Flats From 14x1.25 to 16x1.5 is 1-7/16"

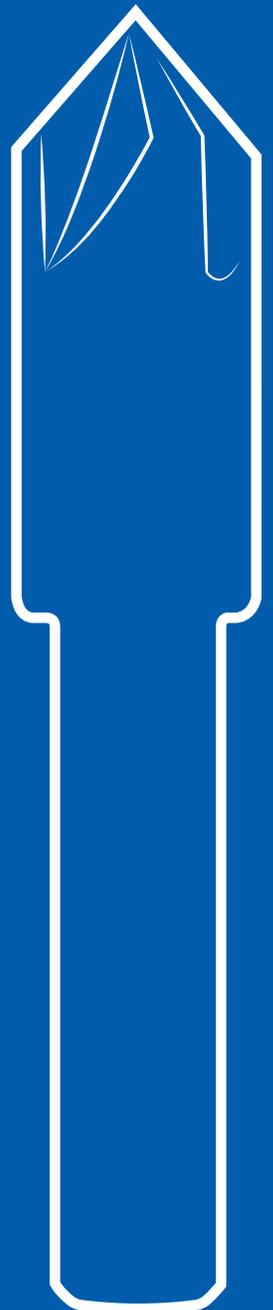
CS30M Size Across Flats From 16x2 to 18x2.5 is 1-7/8"



COUNTERSINKS

clean up holes.

Countersink A Hole To Help A Screw Sit Flush In A Workpiece. Also Use Countersinks To Chamfer Drilled Holes Before Tapping.



Zero Flute Countersinks



Series CSK | Weldon Style | 82° | Pilotless

Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)	Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)
CSK3S	.073 to 15/64	1/4	1-3/4	1/4	CSK48	1/2 to 1-15/32	1/2	3-1/2	1-1/2
CSK18	3/16 to 17/32	1/4	1-7/8	9/16	CSK5S	No. 4, 5	1/4	1-1/2	17/64
CSK26	.307 to 25/32	1/2	2-5/8	13/16	CSK6S	No. 6	1/4	1-1/2	19/64
CSK26A	.307 to 25/32	1/4	2-1/16	13/16	CSK8S	No. 8	1/4	1-5/8	11/32
CSK36	.431 to 7/8	1/2	2-13/16	1-1/8	CSK10S	No. 10	1/4	1-5/8	25/64

Power Tool: Portable Power Drill, Drill Press

Application: De-bur & Countersink Holes In Metal, Plastic, Wood, & Aluminum. Ideal For Glass Window Installation, Door Frame Installation. Countersink Existing Holes For Installing Flush Screws

Features: HSS, Pilotless, 82° Single Cutting Edge

Advantage: Chatterless Finish, Fast Stock Removal & Free Cutting, Can Be Easily Sharpened



Zero Flute Countersinks



Series DBK | Weldon Style | 90° | Pilotless

Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)	Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)
DBK4*	1/64 to 11/64	3/16	1-1/2	NA	DBK26	5/16 to 25/32	1/2	2-19/32	13/16
DBK6*	1/16 to 11/64	3/16	1-1/2	NA	DBK26A	5/16 to 25/32	1/4	2-1/32	13/16
DBK8*	1/8 to 15/64	1/4	1-3/4	NA	DBK36	9/16 to 1-3/32	1/2	2-13/16	1-1/8
DBK14	5/32 to 13/32	1/4	1-11/16	7/16	DBK48	1/2 to 1-15/32	1/2	3-1/2	1-1/2
DBK18	3/16 to 17/32	1/4	1-7/8	9/16					

* Double Ended

Power Tool: Portable Power Drill, Drill Press

Application: De-bur & Countersink Holes In Metal, Plastic, Wood, & Aluminum. Ideal For Glass Window Installation, Door Frame Installation. Countersink Existing Holes For Installing Flush Screws

Features: HSS, 90° Single Cutting Edge, Zero Flute

Advantage: Chatterless Finish, Fast Stock Removal & Free Cutting, Can Be Easily Sharpened



Zero Flute Countersinks



Series CSKA | Weldon Style | 100° | Pilotless

Part #	Dia Of Cut (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)
CSKA8	3/32 to 1/4	1/4	1-1/2	17/64
CSKA14	1/8 to 27/64	1/4	1-11/16	7/16
CSKA18	3/16 to 35/64	1/4	1-7/8	9/16



Power Tool: Portable Power Drill, Drill Press

Application: De-bur & Countersink Holes In Metal, Plastic, Wood, & Aluminum. Ideal For Glass Window Installation, Door Frame Installation. Countersink Existing Holes For Installing Flush Screws

Features: HSS, 100° Single Cutting, Zero Flute

Advantage: Chatterless Finish, Fast Stock Removal & Free Cutting, Can Be Easily Sharpened

Zero Flute Countersinks



Series CSK | Weldon Style | 82° | Piloted

Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)	Pilot Dia (in)	Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Body Dia (in)	Pilot Dia (in)
CSK8-1	1/4	3/8	2	33/64	1/4	CSK12-2	3/8	1/2	2-5/8	49/64	25/64
CSK8-2	1/4	3/8	2	33/64	17/64	CSK14-1	7/16	1/2	2-3/4	53/64	7/16
CSK10-1	5/16	3/8	2-3/16	41/64	5/16	CSK14-2	7/16	1/2	2-3/4	53/64	29/64
CSK10-2	5/16	3/8	2-3/16	41/64	21/64	CSK16-1	1/2	1/2	2-13/16	15/16	1/2
CSK12-1	3/8	1/2	2-5/8	49/64	3/8	CSK16-2	1/2	1/2	2-13/16	15/16	33/64

Power Tool: Portable Power Drill, Drill Press

Application: De-bur & Countersink Holes In Metal, Plastic, Wood, & Aluminum. Ideal For Glass Window Installation, Door Frame Installation. Countersink Existing Holes For Installing Flush Screws

Features: HSS, Reduce Chatter By Allowing Pilot To Fit Closely Into Pre-Drilled Holes, 82° Single Cutting Edge

Advantage: Chatterless Finish, Fast Stock Removal & Free Cutting, Can Be Easily Sharpened



Zero Flute Countersinks



Series CSK | Hex Shank | 82° | Pilotless

Part #	Dia Of Cut / Screw Size	Body Dia (in)	Overall Length (in)	Shank Dia (in)
CSK-3SH	No. 2, 3, 4	1/4	1-27/32	1/4
CSK-8SH	No. 5, 6, 8	11/32	2	1/4
CSK-18SH	No. 10, 12, 14	9/16	2-5/16	1/4



Power Tool: Impact Driver, Portable Power Drill, Drill Press

Application: De-Bur & Countersink Holes In Metal, Plastic, Wood, & Aluminum. Ideal For Glass Window Installation, Door Frame Installation. Countersink Existing Holes For Installing Flush Screws

Features: 1/4" Hex Shank, Chatterless Finish, 82° Single Cutting Edge

Advantage: Fast Stock Removal & Free Cutting, Impact Ready

Zero Flute Countersink Sets



Protection & Organization

Sets

Part #	Qty	Contents
CSK-SH-SET	3 Piece	CSK-3SH, CSK-8SH, CSK-18SH
CSK-SET-1	9 Piece	CSK5S, CSK6S, CSK8S, CSK10S, CSK8-1, CSK10S-1, CSK12-1, CSK14-1, CSK16-1
CSK-SET-5	5 Piece	CSK5S, CSK6S, CSK8S, CSK10S, CSK18



Single Flute



Series XL801 | Heavy Duty | Single Flute

60°	82°	90°	100°	120°	Shank Dia (in)	Overall Length (in)
XL801-1/4X60	XL801-1/4X82	XL801-1/4X90	XL801-1/4X100	XL801-1/4X120	1/4	1-1/2
XL801-3/8X60	XL801-3/8X82	XL801-3/8X90	XL801-3/8X100	XL801-3/8X120	1/4	1-3/4
XL801-1/2X60	XL801-1/2X82	XL801-1/2X90	XL801-1/2X100	XL801-1/2X120	3/8	2
XL801-5/8X60	XL801-5/8X82	XL801-5/8X90	XL801-5/8X100	XL801-5/8X120	3/8	2-1/4
XL801-3/4X60	XL801-3/4X82	XL801-3/4X90	XL801-3/4X100	XL801-3/4X120	1/2	2-5/8
XL801-1X60	XL801-1X82	XL801-1X90	XL801-1X100	XL801-1X120	1/2	2-3/4
XL801-1-1/4X60	XL801-1-1/4X82	XL801-1-1/4X90	XL801-1-1/4X100	XL801-1-1/4X120	1/2	2-3/4
XL801-1-1/2X60	XL801-1-1/2X82	XL801-1-1/2X90	XL801-1-1/2X100	XL801-1-1/2X120	3/4	2-7/8
XL801-2X60	XL801-2X82	XL801-2X90	XL801-2X100	XL801-2X120	3/4	3-1/4



Power Tool: Portable Drill, Drill Press, Or Bridgeport Type Machine

Application: Countersink, Chamfer, & De-Bur A Variety Of Steels & Alloys

Features: Single Flute, High Hook Style, Black Oxide Surface Treatment

Advantage: Self-Centering, Good For Non-Rigid Machining Set Up. Countersink A Wide Range Of Hole Sizes With One Tool Size.

Four Flute Countersinks



Series 800 | Machine Countersinking

60°	82°	90°	Shank Dia (in)	Overall Length (in)
800-1/2X60	800-1/2X82	800-1/2X90	3-7/8	1/2
800-5/8X60	800-5/8X82	800-5/8X90	4	1/2
800-3/4X60	800-3/4X82	800-3/4X90	4-1/8	1/2
800-7/8X60	800-7/8X82	800-7/8X90	4-1/4	1/2
800-1X60	800-1X82	800-1X90	4-3/8	1/2



Power Tool: CNC Machine, Screw Machine, Lathes

Application: Countersink, Chamfer Or De-bur Existing Holes In A Variety Of Steel & Alloys. For Use In Machining Applications

Features: Four Flute, HSS, Additional Shank Length For Use In Screw Machines & Turret Lathes

Multi Flute



Series 799 | Three Flute

60°	82°	90°	100°	120°	Shank Dia (in)	Overall Length (in)
799-1/4X60	799-1/4X82	799-1/4X90	799-1/4X100	799-1/4X120	1/4	1-7/16
799-3/8X60	799-3/8X82	799-3/8X90	799-3/8X100	799-3/8X120	1/4	1-21/32
799-1/2X60	799-1/2X82	799-1/2X90	799-1/2X100	799-1/2X120	1/4	1-27/32
799-5/8X60	799-5/8X82	799-5/8X90	799-5/8X100	799-5/8X120	3/8	2-3/32
799-3/4X60	799-3/4X82	799-3/4X90	799-3/4X100	799-3/4X120	1/2	2-13/32
799-1X60	799-1X82	799-1X90	799-1X100	799-1X120	1/2	2-13/16



Power Tool: For Use In Portable Power Drill, Drill Press, & Machine Applications

Application: Countersink, Chamfer, & De-Bur A Variety Of Steels & Alloys

Features: Three Flute, Black Oxide Surface Treatment

Advantage: Chatter-Free Performance, Smooth Finish

Multi Flute



Series 799L | Four Flute | Large Size

60°	82°	90°	Shank Dia (in)	Overall Length (in)
799L-1-1/4X60	799L-1-1/4X82	799L-1-1/4X90	1/2	2-1/8
799L-1-1/2X60	799L-1-1/2X82	799L-1-1/2X90	3/4	2-3/8
799L-1-3/4X60	799L-1-3/4X82	-	3/4	2-5/8
799L-2X60	799L-2X82	799L-2X90	3/4	2-7/8



Power Tool: For Use In Portable Power Drill, Drill Press, & Machine Applications

Application: Countersink, Chamfer, & De-Bur A Variety Of Steels & Alloys

Features: Four Flute, Large Size, Black Oxide Surface Treatment

Advantage: Large Size For Countersinking Large Diameter Holes

Combined Drill & Countersink



Series 198 | Solid Carbide | 60° Included Angle | "Center Drills"

Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)	Part #	Screw Size (in)	Shank Dia (in)	Overall Length (in)
198-1	1/8	3/64	1-1/4	198-4	5/16	1/8	2-1/8
198-2	3/16	5/64	1-7/8	198-5	7/16	3/16	2-3/4
198-3	1/4	7/64	2	198-6	1/2	7/32	3



Power Tool: Drill Press, Lathe, Milling Machine

Application: Drill & Countersink The Center Holes In the Ends Of Material Held On Machine Center. Also Known As Center Drills

Features: 60° Included Angle, Solid Carbide

Combined Drill & Countersink



Series 798 | HSS | 60° Included Angle | "Center Drills"

Part #	Body Dia (in)	Drill Dia (in)	Drill Length (in)	Overall Length (in)	Part #	Body Dia (in)	Drill Dia (in)	Drill Length (in)	Overall Length (in)
798-00	1/8	.025	.030	1-1/8	798-4	5/16	1/8	1/8	2-1/8
798-0	1/8	1/32	.038	1-1/8	798-5	7/16	3/16	3/16	2-3/4
798-1	1/8	3/64	3/64	1-1/4	798-6	1/2	7/32	7/32	3
798-2	3/16	5/64	5/64	1-7/8	798-7	5/8	1/4	1/4	3-1/4
798-3	1/4	7/64	7/64	2	798-8	3/4	5/16	5/16	3-1/2



Power Tool: Drill Press, Lathe, Milling Machine

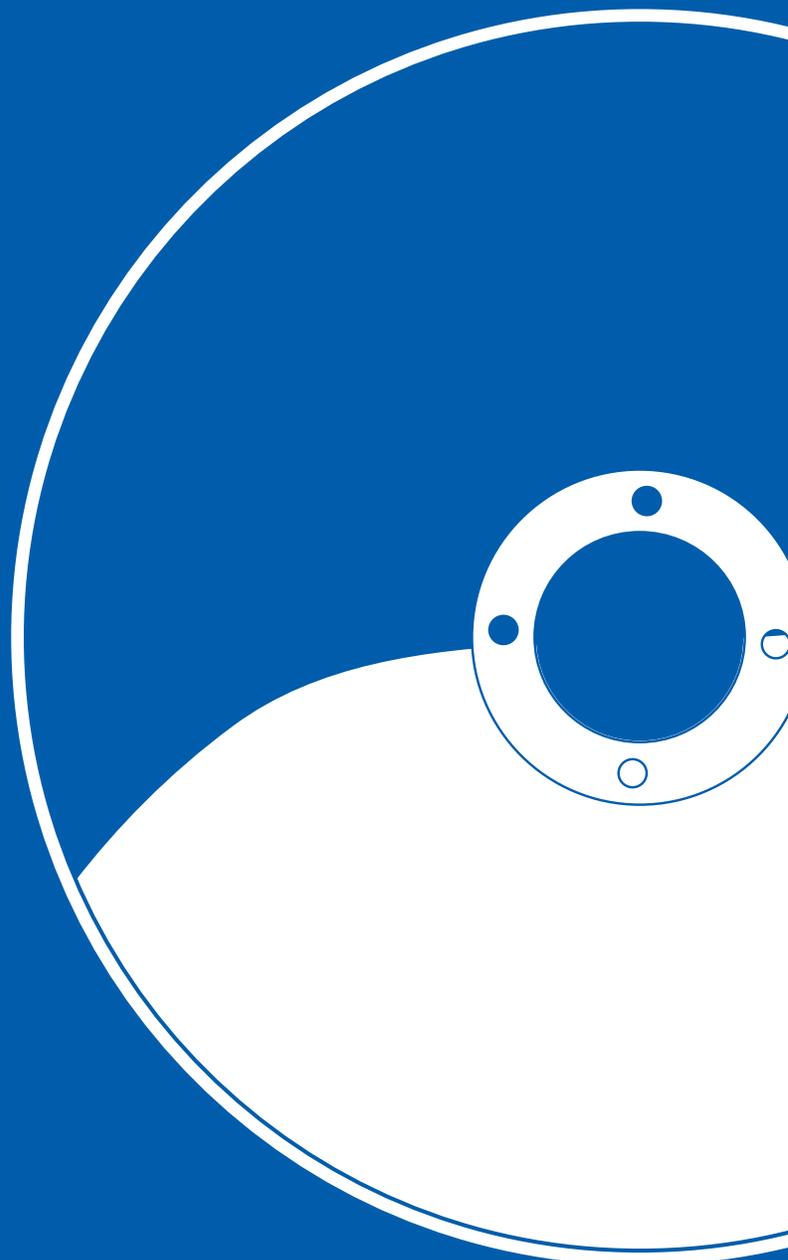
Application: Drill & Countersink The Center Holes In the Ends Of Material Held On Machine Center. Also Known As Center Drills

Features: 60° Included Angle, HSS

CUT-OFF WHEELS

cut quickly.

An Accessible & Convenient Tool.
Champion's Acquisition Of Mercer®
Gives Professionals The Opportunity
To Source High Quality Abrasives
From Their Favorite Cutting Tool
Supplier.



.045 Cut-Off Wheels

Heat-Treated Aluminum Oxide | For Ferrous Metals, Stainless Steel

Type 1



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
617070	4" x .045 x 7/8"	19,000	50	500
617010	4-1/2" x .045 x 7/8"	13,300	50	500
617020	5" x .045 x 7/8"	12,200	25	250
617030	6" x .045 x 7/8"	10,200	25	250
617080	6" x 1/16" (.063) x 5/8"	10,200	25	250
617090	6" x 1/16" (.063) x 7/8"	10,200	25	250
617040*	7" x .045 x 7/8"	8,500	25	250
617050	7" x 5/64" (.078) x 7/8"	8,500	25	100
617060	9" x 5/64" (.078) x 7/8"	6,600	25	100

* 617040 For Use In Circular Saws

5/64" Models Designed For Tough Cutting & Notching Jobs Where Stability Is Important

Type 27



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
619010	4" x .045 x 5/8"	19,000	50	500
619020	4-1/2" x .045 x 7/8"	13,300	50	400
619060	4-1/2" x .045 x 5/8" - 11	13,300	20	40
619130	4-1/2" x 3/32" (.094) x 7/8"	13,300	25	250
619140	4-1/2" x 3/32" (.094) x 5/8" - 11	13,300	20	40
619030	5" x .045 x 7/8"	12,200	25	250
619080	5" x .045 x 5/8" - 11	12,200	20	40
619040	6" x .045 x 7/8"	10,200	25	250
619090	6" x .045 x 5/8" - 11	10,200	10	20
619050	7" x .045 x 7/8"	8,500	25	250
619110	7" x .045 x 5/8" - 11	8,500	10	20
619120	9" x 5/64" (.078) x 7/8"	6,600	25	100

3/32" & 5/64" Models Designed For Tough Cutting & Notching Jobs Where Stability Is Important

Power Tool: Angle Grinder

Application: For All Ferrous Metals & Stainless Steel

Type 1: Flat Wheel Offers More Available Surface For More Cuts, More Flexible-Resilient To Resist Twisting & Bending

Type 27: Preferred Wheel For Flush Cutting In Confined Space, Extra Rigidity, Protects The Hub In The Cutting Operation & Avoids Reinforcement Wear For Extra Safety Features: Double Reinforced, Extra Thin .045

Features: High Quality Heat Treated Aluminum Oxide Grain, Ultra Thin .045 Reduces Cutting Surface Area For Smooth, Bur-Free Cuts, High Strength Double Reinforced, Contaminant Free - Iron, Sulfur, Chlorine $\leq 0.1\%$

Advantage: Cuts Comparable To Zirconia At A Lower Price Point, High Performance For Tough Applications Like Stainless Steel, Smooth & Fast Cutting, Easy To Use & Comfortable Feel



Type 1 - Flat



Type 27 - Depressed Center

.045 Cut-Off Wheels



Zirconia | For Stainless Steel, Ferrous Metals

Type 1

Part #	Dia x Width x Arbor	Max RPM	Pack	Case
630020	4-1/2" x .045 x 7/8"	13,300	50	500
630030	5" x .045 x 7/8"	12,200	25	250
630040	6" x .045 x 7/8"	10,200	25	250



Type 27

Part #	Dia x Width x Arbor	Max RPM	Pack	Case
632020	4-1/2" x .045 x 7/8"	13,300	50	400
632030	4-1/2" x .045 x 5/8" - 11	13,300	20	40
632040	5" x .045 x 7/8"	12,200	25	250
632050	5" x .045 x 5/8" - 11	12,300	20	40
632060	6" x .045 x 7/8"	10,200	25	250
632070	6" x .045 x 5/8" - 11	10,200	10	20
632080	7" x .045 x 7/8"	8,500	25	250
632090	7" x .045 x 5/8" - 11	8,500	10	20

Power Tool: Angle Grinder

Application: For Cutting Tough Stainless Steel & Ferrous Metals

Type 1: Flat Wheel Offers More Available Surface For More Cuts, More Flexible-Resilient To Resist Twisting & Bending

Type 27: Preferred Wheel For Flush Cutting In Confined Space, Extra Rigidity, Protects The Hub In The Cutting Operation & Avoids Reinforcement Wear For Extra Safety

Features: Self-Sharpening Grain, Extra Thin .045, Single Grit, Clean Cuts With Minimal Burrs, High Strength Double Reinforced Contaminant Free - Iron, Sulfur, Chlorine ≤ 0.1%

Advantage: High Performance For Stainless Steel & Tough Applications, Aggressive Material Removal, Longer Life Than Standard Metal Cut-Off Wheels, Smooth & Fast Cutting



.045 Cut-Off Wheels



Aluminum Oxide, Silicon Carbide, Chromium | For Aluminum, Non-Ferrous Metals

Type 1

Part #	Dia x Width x Arbor	Max RPM	Pack	Case
631020	4-1/2" x .045 x 7/8"	13,300	50	500
631030	5" x .045 x 7/8"	12,200	25	250
631040	6" x .045 x 7/8"	10,200	25	250



Type 27

Part #	Dia x Width x Arbor	Max RPM	Pack	Case
633020	4-1/2" x .045 x 7/8"	13,300	50	400
633030	4-1/2" x .045 x 5/8" - 11	13,300	20	40
633060	6" x .045 x 7/8"	10,200	25	250
633070	6" x .045 x 5/8" - 11	10,200	10	20

Power Tool: Angle Grinder

Application: Aluminum, Non-Ferrous Metals Including Copper & Brass

Type 1: Flat Wheel Offers More Available Surface For More Cuts, More Flexible-Resilient To Resist Twisting & Bending

Type 27: Preferred Wheel For Flush Cutting In Confined Space, Extra Rigidity, Protects The Hub In The Cutting Operation & Avoids Reinforcement Wear For Extra Safety

Features: Double Reinforced, Balanced To Avoid Vibration

Advantage: Prevent Loading When Used on Soft Metals Especially Aluminum, Clean Cuts With Minimal Burrs



.045 Cut-Off Wheels



Aluminum Oxide | General Purpose | For Ferrous Metals

Type 1



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
616010	4" x .045 x 3/8"	19,000	50	500
616020	4" x .045 x 5/8"	19,000	50	500
616030	4" x .045 x 7/8"	19,000	50	500
616040	4-1/2" x .045 x 7/8"	13,300	50	500
616090	5" x .045 x 5/8"	12,200	25	250
616100	5" x .045 x 7/8"	12,200	25	250
616050	6" x .045 x 5/8"	10,200	25	250
616060	6" x .045 x 7/8"	10,200	25	250
616070	6" x 1/16" (.063) x 5/8"	10,200	25	250
616080	6" x 1/16" (.063) x 7/8"	10,200	25	250
616110*	7" x .045 x 7/8"	8,500	25	250

* 616110 For Use In Circular Saws



Type 27



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
618010	4-1/2" x .045 x 7/8"	19,000	50	400
618070	4-1/2" x .045 x 5/8" - 11	19,000	20	40
618040	4-1/2" x 3/32" (.094) x 7/8"	19,000	25	250
618050	4-1/2" x 3/32" (.094) x 5/8" - 11	13,300	20	40
618060	5" x .045 x 7/8"	12,200	25	250
618080	5" x .045 x 5/8" - 11	12,200	20	40
618020	6" x .045 x 7/8"	12,200	25	250
618090	6" x .045 x 5/8" - 11	10,200	10	20
618030	7" x .045 x 7/8"	10,200	25	250
618110	7" x .045 x 5/8" - 11	10,200	10	20

3/32" & 5/64" Models Designed For Tough Cutting & Notching Jobs Where Stability Is Important

Power Tool: Angle Grinder

Application: General Purpose For Ferrous Metals

Type 1: Flat Wheel Offers More Available Surface For More Cuts, More Flexible-Resilient To Resist Twisting & Bending

Type 27: Preferred Wheel For Flush Cutting In Confined Space, Extra Rigidity, Protects The Hub In The Cutting Operation & Avoids Reinforcement Wear For Extra Safety

Features: Double Reinforced, Extra Thin .045, Balanced To Avoid Vibration



Small Diameter Cut-Off Wheels



Double Reinforced | High Speed | Type 1

Aluminum Oxide - For Ferrous Metals

Part #	Dia x Width x Arbor	Max RPM	Grade	Grit	Pack	Case
613010	3" x 1/32" (.031) x 1/4"	25,000	Medium / Fine	40-60	100	1000
613030	3" x 1/32" (.031) x 3/8"	25,000	Medium / Fine	40-60	100	1000
613050	3" x 1/16" (.063) x 1/4"	25,000	Medium / Fine	40-60	100	1000
613070	3" x 1/16" (.063) x 3/8"	25,000	Medium / Fine	40-60	100	1000
613080	3" x 1/16" (.063) x 3/8"	25,000	Coarse	30-36	100	1000
613150	3" x 1/8" (.125) x 1/4"	25,000	Medium / Fine	40-60	50	500
613200	3" x 3/16" (.188) x 3/8"	25,000	Medium / Fine	40-60	25	250
613220	3" x 1/4" (.250) x 3/8"	25,000	Coarse	30-36	25	250
614030	4" x 1/32" (.031) x 3/8"	19,000	Coarse	30-36	100	1000
614090	4" x 1/16" (.063) x 1/4"	19,000	Medium / Fine	40-60	50	500
614110	4" x 1/16" (.063) x 3/8"	19,000	Medium / Fine	40-60	50	500
614120	4" x 1/16" (.063) x 3/8"	19,000	Coarse	30-36	50	500
614150	4" x 1/16" (.063) x 5/8"	19,000	Medium / Fine	40-60	50	500
614160	4" x 1/16" (.063) x 5/8"	19,000	Coarse	30-36	50	500
614270	4" x 1/8" (.125) x 5/8"	19,000	Medium / Fine	40-60	50	500
615010	4-1/2" x 1/32" (.031) x 7/8"	13,300	Medium / Fine	40-60	100	1000
615040	4-1/2" x 1/16" (.063) x 7/8"	13,300	Coarse	30-36	50	500
615060	4-1/2" x 1/16" (.063) x 7/8"	13,300	Coarse	30-36	20	200



Silicon Carbide - For Masonry

Part #	Dia x Width x Arbor	Max RPM	Grade	Grit	Pack	Case
615320	4-1/2" x 1/8" (.125) x 7/8"	13,300	Coarse	30-36	20	200

Mandrels

Part #	Size	Case	Part #	Size	Case
6941414	1/4" x 1/4"	10	6941438	1/4" - 3/8" x 1/4"	10
6943814	3/8" x 1/4"	10			



Use With Small Diameter Cut-Off Wheels With 1/4" Or 3/8" Arbors On Electric Or Battery Operated Drills Or High Speed Air Cut-Off Tools

Power Tool: Angle Grinder, Die Grinder

Application: Cut Clean & Vibration Free With Minimal Burrs Through Small Surface Areas

Aluminum Oxide Grain: General Purpose Wheels For Cutting Ferrous Metals

Silicon Carbide Grain: General Purpose Wheel For Cutting Masonry Products - Brick, Block, Concrete, Natural/Artificial Stone

Note: All Wheels Are High Strength Double Reinforced



Circular Saw Cut-Off Wheels



Type 1

Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
600020	7" x 1/8" x 5/8" <->	8,700	25	100
600030	8" x 1/8" x 5/8" <->	8,000	25	100



Silicon Carbide - For Masonry



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
601020	7" x 1/8" x 5/8" <->	8,700	25	100
601030	8" x 1/8" x 5/8" <->	8,000	25	100

Power Tool: Handheld Circular Saw

Application: Fast & Clean Cuts, High Strength, Phenolic Resin Bond, Double Reinforced, Extended Wheel Life

Aluminum Oxide: General Purpose Wheels For Cutting Ferrous Metals

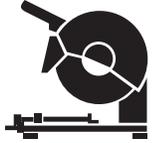
Silicon Carbide Grain: General Purpose Wheel For Cutting Masonry Products – Brick, Block, Concrete, Natural/Artificial Stone



Chop Saw Cut-Off Wheels



Type 1 | Large Diameter Cutting



Zirconia - For Stainless Steel, Ferrous Metals

Part #	Dia x Width x Arbor	Max RPM	Reinforced	Pack	Case
602200	14" x 3/32" x 1"	4,400	Double	10	50

Heat-Treated Aluminum Oxide - For Ferrous Metals, Stainless Steel

Part #	Dia x Width x Arbor	Max RPM	Reinforced	Pack	Case
602100	14" x 3/32" x 1"	4,400	Double	10	50

Aluminum Oxide - For Ferrous Metals

Part #	Dia x Width x Arbor	Max RPM	Reinforced	Pack	Case
602010	12" x 3/32" x 1"	5,100	Double	10	50
602020	14" x 3/32" x 1"	4,400	Double	10	50

Aluminum Oxide - For Ferrous Metals

Part #	Dia x Width x Arbor	Max RPM	Reinforced	Pack	Case
603010	12" x 7/64" x 1"	5,100	Center	10	40
603020	14" x 7/64" x 1"	4,400	Center	10	40
603030	16" x 7/64" x 1"	3,000	Center	10	40

Power Tool: Chop Saw

Application: Cut Metal Using A Chop Saw

Zirconia: Cut Stainless Steel & Ferrous Metals, High Performance, Hardest Grain For Tough Materials, Contaminant Free - Iron, Sulfur, Chlorine ≤ 0.1%

Heat-Treated Aluminum Oxide: Cut Ferrous Metals & Stainless Steel, High Productivity, Long Wheel Life, Bur-Free Cutting, Contaminant Free - Iron, Sulfur, Chlorine ≤ 0.1%

Aluminum Oxide: General Purpose Wheels For Cutting Ferrous Metals



Gas Saw Cut-Off Wheels

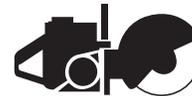


Triple Reinforced | High Speed | Type 1

Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
607010	12" x 1/8" (5/32") x 1"	6,300	10	30
607020	12" x 1/8" (5/32") x 20mm	6,300	10	30
607030	14" x 1/8" (5/32") x 1"	5,400	10	30
607040	14" x 1/8" (5/32") x 20mm	5,460	10	30



Silicon Carbide - For Masonry



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
608010	12" x 1/8" (5/32") x 1"	6,300	10	30
608020	12" x 1/8" (5/32") x 20mm	6,300	10	30
608030	14" x 1/8" (5/32") x 1"	5,400	10	30
608040	14" x 1/8" (5/32") x 20mm	5,460	10	30

Power Tool: Portable Gas Saw

Application: Industrial, Heavy Duty Wheels. Designed Exclusively For High Speed Gas Saws For More Rigidity & Less Flexibility.

Aluminum Oxide: General Purpose Wheels For Cutting Ferrous Metals

Silicon Carbide: General Purpose Wheel For Cutting Masonry Products: Brick, Block, Concrete, Natural/Artificial Stone



Gas Saw Cut-Off Wheels



Double Reinforced | High Speed | Type 1

Heat-Treated Aluminum Oxide - For Ferrous Metals, Stainless Steel



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
612030	12" x 1/8" (5/32") x 1"	6,300	10	30
612040	12" x 1/8" (5/32") x 20mm	6,300	10	30
612050	14" x 1/8" (5/32") x 1"	5,400	10	30
612060	14" x 1/8" (5/32") x 20mm	5,460	10	30



Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
604010	12" x 1/8" (5/32") x 1"	6,300	10	30
604020	12" x 1/8" (5/32") x 20mm	6,300	10	30
604030	14" x 1/8" (5/32") x 1"	5,400	10	30
604040	14" x 1/8" (5/32") x 20mm	5,460	10	30

Aluminum Oxide / Silicon Carbide - For Ductile Pipe



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
606010	12" x 1/8" (5/32") x 1"	6,300	10	30
606020	12" x 1/8" (5/32") x 20mm	6,300	10	30
606030	14" x 1/8" (5/32") x 1"	5,400	10	30
606040	14" x 1/8" (5/32") x 20mm	5,460	10	30

Bushings

Part #	Size	Case
693120	1" to 20mm	50
693158	1" to 5/8"	50
693178	1" to 7/8"	50



For Use With Type 1 Cut-Off Wheels For Arbor Hole Reduction

Power Tool: Portable Gas Saw

Application: Industrial, Heavy Duty Wheels. Designed Exclusively For High Speed Gas Saws For More Rigidity & Less Flexibility.

Heat-Treated Aluminum Oxide: Best Wheels For Cutting Ferrous Metals & Stainless Steel. Contaminant Free - Iron, Sulfur, Chlorine \leq 0.1%

Aluminum Oxide: General Purpose Wheels For Cutting Ferrous Metals

Aluminum Oxide / Silicon Carbide: Wheels For Ductile - Ductile Iron, Cast Iron, Concrete-Coated Ductile Iron, Pipe



Stationary Saw Cut-Off Wheels



Type 1 | Large Diameter Cutting

Heat-Treated Aluminum Oxide - For Ferrous Metals, Stainless Steel



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
600200	14" x 1/8" x 1"	4,400	10	40



Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
600040	10" x 1/8" x 5/8"	6,100	10	50
600050	10" x 1/8" x 1"	6,100	10	50
600060	12" x 1/8" x 1"	5,100	10	40
600070	14" x 1/8" x 1"	4,400	10	40
600080	16" x 1/8" x 1"	3,800	10	40
600090	16" x 5/32" x 1"	3,800	10	30
600100	18" x 5/32" x 1"	3,400	5	20
600110	20" x 5/32" x 1"	3,000	5	20

Power Tool: Stationary Saw

Application: Engineered To Handle High Torque & Tough Cutting Applications, Extended Wheel Life, High Strength, Phenolic Resin Bond, Double Reinforced

Heat-Treated Aluminum Oxide: Best Wheels For Cutting Ferrous Metals & Stainless Steel

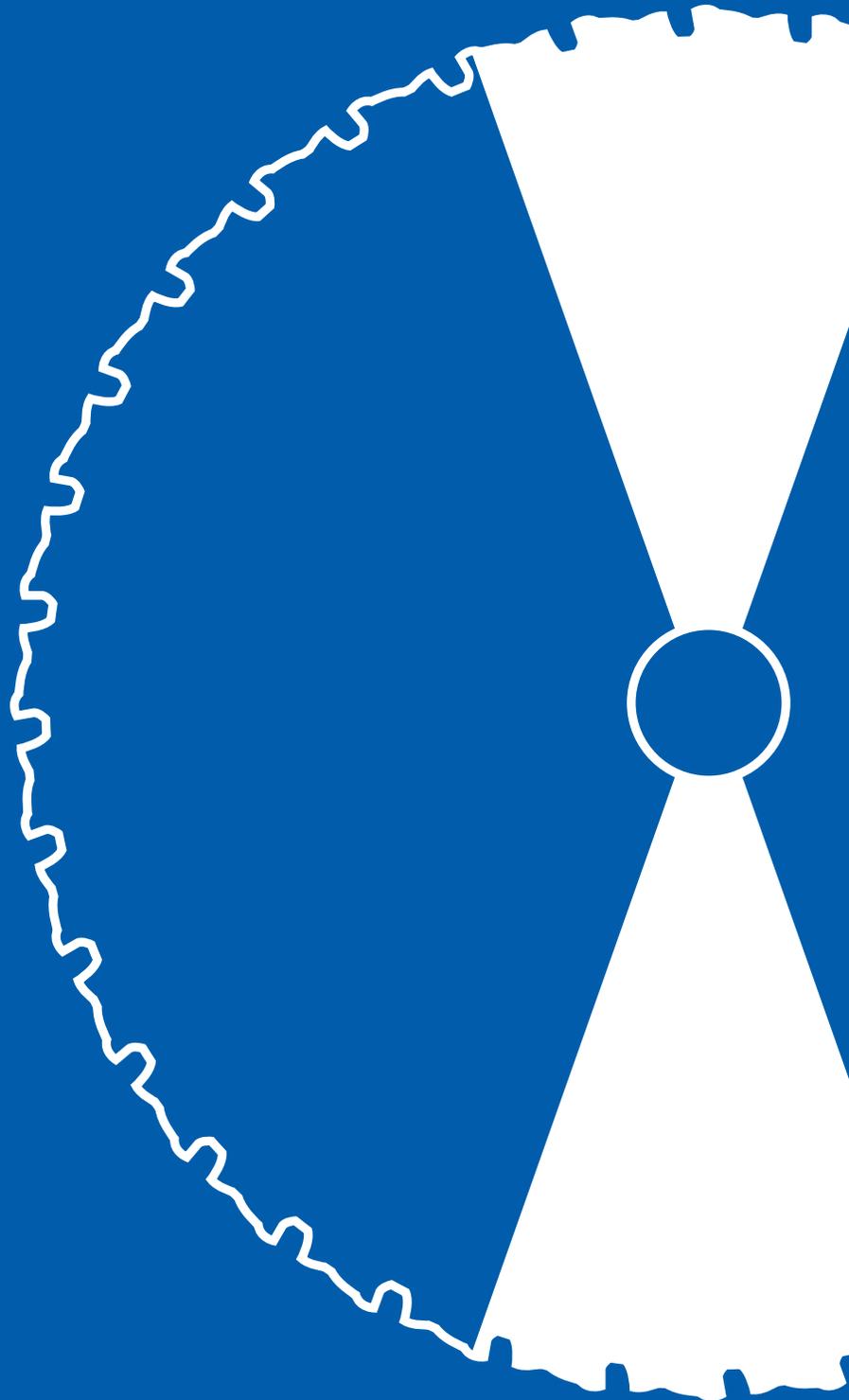
Aluminum Oxide: General Purpose Wheels For Cutting Ferrous Metals



CIRCULAR SAW BLADES

cut all day.

Champion's Brute® RZR Blades Have Outperformed Virtually Every Metal Cutting Blade On The Market. Productive & Efficient, Many In The Field Exclusively Ask For Our Blue Blades.

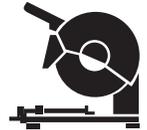


Circular Saw Blades (For Steel)



Series RZR | Heavy Duty | Cermet Teeth

Part #	Dia (in)	Tooth Count	Arbor Size	Max Thickness Of Cut (in)	Max RPM	Power Tool
RZR-538-26-S	5-3/8	26	20mm	3/16	6,000	Metal Cutting Saw
RZR-612-32-S	6-1/2	32	5/8"	3/16	6,000	Metal Cutting Saw
RZR-7-36-S	7	36	20mm	1/4	5,800	Metal Cutting Saw
RZR-714-36-KO-S*	7-1/4	36	5/8" + Diamond KO	5/16	5,800	Worm Drive Saw
RZR-714-36-S	7-1/4	36	20mm	5/16	5,800	Metal Cutting Saw
RZR-8-40-S	8	40	5/8"	1/2	4,500	Metal Cutting Saw
RZR-9-44-S	9	44	1"	1/2	3,500	Metal Cutting Saw
RZR-12-54-S	12	54	1"	1	1,700	Low Speed Chop Saw
RZR-14-64-S	14	64	1"	1	1,500	Low Speed Chop Saw



* 5/8-KO Knockout Fits Both Diamond & Circular Arbors

Power Tool: Metal Cutting Saw, Worm Drive Saw, Low Speed Chop Saw

Application: Cut Steel Pipe, Gas Pipe, Steel Plate, Angle Iron, Rebar / All Thread, Square Pipe, C-Channel, Channel Stud, Cast Iron

Features: 2X Longer Tool Life Than Carbide. Smooth, Bur-Free Cuts - Razor Sharp Cermet Teeth Resist Heat & Friction. Faster Cutting - Super Thin-Kerf Design Reduces Cutting Resistance. Stable, Vibration Free Cutting - Unique Tooth Geometry Specifically Engineered For Steel Cutting. Noise Reduction - Unique Laser Slits Minimize Noise



Circular Saw Blades (For Stainless Steel)



Series RZR | Heavy Duty | Cermet Teeth

Part #	Dia (in)	Tooth Count	Arbor Size	Max Thickness Of Cut (in)	Max RPM	Power Tool
RZR-538-50-ST	5-3/8	50	20mm	1/8	6,000	Metal Cutting Saw
RZR-612-56-ST	6-1/2	56	5/8"	1/8	6,000	Metal Cutting Saw
RZR-7-64-ST	7	64	20mm	1/8	5,800	Metal Cutting Saw
RZR-714-64-ST	7-1/4	64	20mm	1/8	5,800	Metal Cutting Saw
RZR-714-64-KO-ST*	7-1/4	64	5/8" + Diamond KO	1/8	5,800	Worm Drive Saw
RZR-8-70-ST	8	70	5/8"	1/8	4,500	Metal Cutting Saw
RZR-9-76-ST	9	76	1"	1/8	3,500	Metal Cutting Saw
RZR-12-96-ST	12	96	1"	1/4	1,700	Low Speed Chop Saw
RZR-14-110-ST	14	110	1"	1/4	1,500	Low Speed Chop Saw



* 5/8-KO Knockout Fits Both Diamond & Circular Arbors

Power Tool: Metal Cutting Saw, Worm Drive Saw, Low Speed Chop Saw

Application: Cut Tough Stainless Steel (e.g. 304 Stainless Steel) - Stainless Steel Pipe, Stainless Steel Rebar, Stainless Steel Plate, Stainless Steel Square Tubing

Features: Engineered Specifically For Stainless Cutting, Unique Tooth Geometry, 2X More Teeth Than Steel Cutting Blades, 2-Step Saw Body Reduces Vibration & Prevents Chipping Of Teeth



Circular Saw Blades (For Aluminum)



Series RZR | Heavy Duty | Carbide Teeth

Part #	Dia (in)	Tooth Count	Arbor Size	Max Thickness Of Cut (in)	Max RPM	Power Tool
RZR-612-50-NF	6-1/2	50	8"	1/4	6,000	Metal Cutting Saw
RZR-7-54-NF	7	54	20mm	3/8	5,800	Metal Cutting Saw
RZR-714-54-KO-NF*	7-14	54	5/8" + Diamond KO	5/16	5,800	Worm Drive Saw
RZR-8-80-NF	8	80	5/8"	3/8	5,500	Metal Cutting Saw
RZR-9-80-NF	9	90	1"	3/8	5,500	Metal Cutting Saw
RZR-10-80-NF	10	80	5/8"	3/8	5,300	Circular Saw
RZR-12-100-NF	12	100	1"	3/8	4,300	Low Speed Chop Saw
RZR-14-100-NF	14	100	1"	3/8	3,800	Low Speed Chop Saw



* 5/8-KO Knockout Fits Both Diamond & Circular Arbors



Power Tool: Metal Cutting Saw, Worm Drive Saw, Circular Saw, Low Speed Chop Saw

Application: Cut Aluminum Extrusion, Aluminum Bar, Aluminum Angle, Aluminum Tubing, Aluminum C-Channel, Aluminum Plate, Aluminum Sash & Other Non-Ferrous Materials

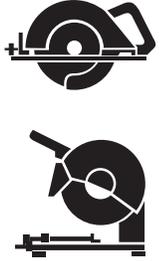
Features: Carbide Is The Preferred Saw Blade Tooth Material For Aluminum. Produce Clean, Bur-Free Cuts

Circular Saw Blades (For Mild Steel)



Carbide Tipped

Part #	Dia x Arbor (in)	Tooth Count	Max RPM	Application	Power Tool
727141*	7-1/4" x 5/8" <>	36 TCG	5,800	Mild Steel	Circular Saw
727144*	7-1/4" x 5/8" <>	48 TCG	5,800	Mild Steel	Circular Saw
728001	8" x 5/8"	48 TCG	5,800	Mild Steel	Circular Saw
729001	9" x 1"	48 TCG	5,800	Mild Steel	Circular Saw
721001	10" x 1", 5/8"	52 TCG	2,500	Mild Steel	Miter Saw
721201	12" x 1"	60 TCG	2,500	Mild Steel	Chop Saw
721202	12" x 1"	80 TCG	2,500	Thin Mild Steel	Chop Saw
721401	14" x 1"	72 M-ATB	1,800	Mild Steel	Chop Saw
721402	14" x 1"	90 M-ATB	1,800	Thin Mild Steel	Chop Saw



* 5/8-KO Knockout Fits Both Diamond & Circular Arbors

TCG: Triple Chip Grind - Blades Alternate A Flat Top Tooth & A Chamfered Tooth. The Chamfered Tooth Roughs Out The Cut & The Flat Top Tooth Cleans It Up.

M-ATB: Alternate Top Bevel - The Tops Of Alternating Teeth Are Beveled To One Side Of The Blade Or The Other At Approximately 15 Degrees. This Creates A Sharp Point & A Sharper Cutting Edge For Better Cut Quality.



Power Tool: Circular Saw, Miter Saw, Chop Saw

Application: Cut Low Carbon Steel Studs, Sheet Steel, Thin Steel Pipe, Channel Iron, Threaded Rod, Square Tube, Angle Iron, Steel Plate, Rebar, Metal Roofing, Electrical Conduit, Duct Work, I-Beam & Flat Bar

Features: Professional Grade Carbide Teeth Produce Cool, Clean Cuts. Last 30x Longer Than An Abrasive Blade. Minimal Sparks Compared To An Abrasive Blade

Circular Saw Blades (For Wood)

Carbide Tipped

7-1/4" (Bulk)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
717141B	7-1/4" x 5/8" <>	24 ATB	10,000	Framing / Form Cutting	Circular Saw
717142B	7-1/4" x 5/8" <>	24 ATB	10,000	Framing	Circular Saw
717143B	7-1/4" x 5/8" <>	40 ATB	10,000	Fine Finish	Circular Saw
717144B	7-1/4" x 5/8" <>	60 ATB	10,000	Ultra-Fine Finish	Circular Saw

All Sizes: Pack QTY = 25, Case QTY = 50

8-1/4" (Retail Packaging)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
718141	8-1/4" x 5/8" <>	24 ATB	9,000	Framing	Circular Saw
718142	8-1/4" x 5/8" <>	40 ATB	9,000	Fine Finish	Circular Saw

All Sizes: Pack QTY = 1, Case QTY = 5

8-1/2" (Retail Packaging)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
718122	8-1/2" x 5/8"	60 ATB	9,000	Ultra-Fine Finish	Slide Miter Saw, Miter Saw

All Sizes: Pack QTY = 1, Case QTY = 5

10" (Retail Packaging)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
711001	10" x 5/8"	24 ATB	7,000	Ripping	Table Saw
711002	10" x 5/8"	40 ATB	7,000	General Purpose	Table Saw, Miter Saw
711008	10" x 5/8"	80 Hi-ATB	7,000	Ultra-Fine Finish	Table Saw, Slide Miter Saw, Miter Saw

All Sizes: Pack QTY = 1, Case QTY = 5

ATB - Alternate Top Bevel, Hi-ATB - Alternate Top Bevel (Higher Angle), TCG - Triple Chip Grind

12" (Retail Packaging)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
711201	12" x 1", 5/8"	44 ATB	6,000	Framing / General Purpose	Slide Miter Saw, Miter Saw
711202	12" x 1", 5/8"	80 Hi-ATB	6,000	Ultra-Fine Finish	Slide Miter Saw, Miter Saw

All Sizes: Pack QTY = 1, Case QTY = 5



Small Diameter (Retail Packaging)

Part #	Dia x Arbor	Tooth Count	Max RPM	Application	Power Tool
715382	5-3/8" x 10mm	24 ATB	12,000	Framing	Cordless Trim Saw
716121	6-1/2" x 5/8" <->	24 ATB	10,000	Framing	Cordless Trim Saw

All Sizes: Pack QTY = 1, Case QTY = 10



Power Tool: Circular Saw, Cordless Trim Saw, Table Saw, Slide Miter Saw, Miter Saw

Application: Cut Wood In A Large Range Of Applications

Features: Most Blades Feature Laser Cut Heat Expansion Slots, Which Keep Cuts Accurate & Controlled. Most Blades Feature Anti-Vibration Vents & Laser Cut Arbor For Optimal Cutting. Thin Kerf Produces Fast, Clean, Accurate Cuts. Anti-Rust Coating For Longer Blade Life.

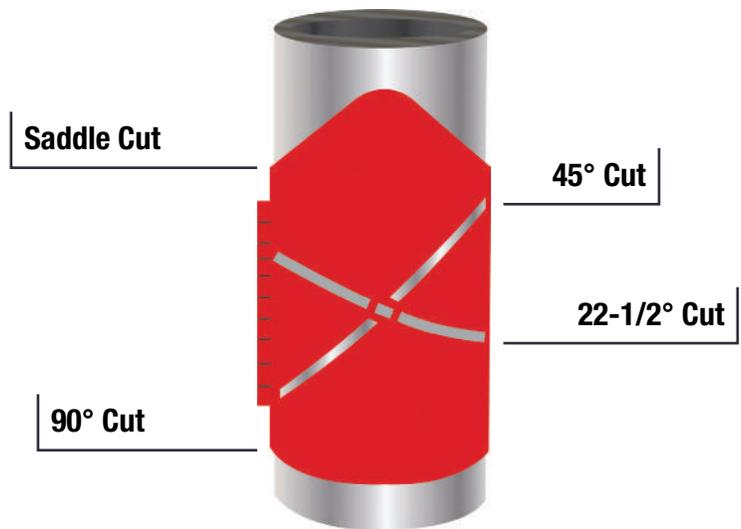


Pipe Cutting Guides



Part #	Size	Fits Pipe Size
730010	1-2/3"	1-1/4"
730020	1-7/8"	1-1/2"
730030	2-3/8"	2"
730040	2-7/8"	2-1/2"
730050	3-1/2"	3"
730060	4"	3-1/2"
730070	4-1/2"	4"
730080	6-5/8"	6"
730090	8-5/8"	8"

Can Be Purchased Individually



Application: For Use With Cut-Off Wheels, Circular Saw Blades, & Diamond Blades.

Operating Guidelines:

1. Open The Guide & Place On Pipe
2. Clamp Shut
3. Make Your Marks
4. Remove Cutting Guide
5. Proceed To Cut Pipe With Desired Method

Features: 4 Pipe Marking Tools In One. Spring Loaded Hinge Keeps Guide Secure On Pipe. Accurate Angle Slots Create Precise Markings For Professional, Accurate Results. Crafted From 16 Ga. Epoxy Coated Steel For Durability & Strength. Guides Can Be Used Over & Over Again.



MAGNETIC DRILL PRESS SYSTEMS

serious holemaking.

RotoBrute® Is The Ultimate Hole Cutting System. Investing In A Champion Mag Drill Means Reliability, Durability, & Top Performance When Drilling Large Holes In Steel. Our Expert Sales Team & Customer Service Department Are Available For Technical Support.



RotoBrute® Magnetic Drill Presses



	AC35 MiniBrute	AC42 VariBrute	AC50 MightiBrute
KEY FEATURES	Small & Lightweight	Versatile - Drill & Tap	Powerful & Large Capacity
CUTTER CAPACITY (DIA X DEPTH)	1-3/8 x 2"	1-1/2 x 2"	2-1/8 x 2"
TWIST DRILL CAPACITY	3/4"	1"	1"
TAP CAPACITY	-	3/4"	-
WEIGHT	23 lbs	29 lbs	33 lbs
MAGNETIC STRENGTH	2200 lbs	3800 lbs	3370 lbs
MOTOR POWER	1100 Watt	1100 Watt	1100 Watt
MOTOR SPEED	600 RPM - Single Speed	225 - 450 RPM, Variable Speed Forward / Reverse	300/450 RPM - 2 Speed
STANDARD ARBOR TYPE	3/4" Weldon Shank Quick Change	3/4" Weldon Shank Quick Change	3/4" Weldon Shank Quick Change
ARBORS / CHUCKS (ALSO INCLUDED)	-	QX1234 Drill Chuck TAP123 Tap Chuck	QX1234 Drill Chuck
ARBORS / CHUCKS (OPTIONAL)	QX1220 Drill Chuck	-	-

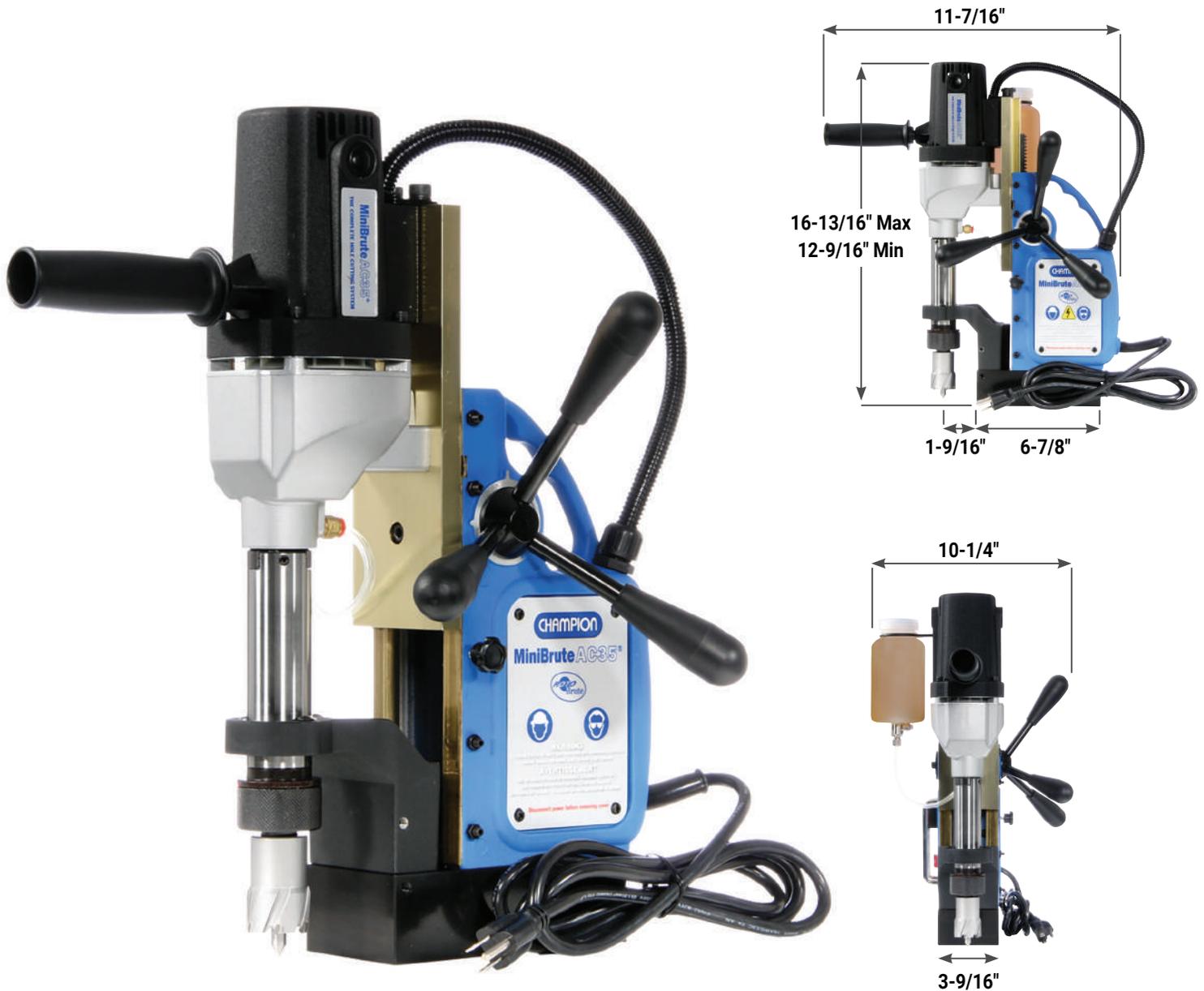
Ultimate Hole Cutting System



	SB35 SmartBrute	RB30 LittleBrute	AC120 SuperBrute
KEY FEATURES	Semi Automatic Power Feed	Compact Size - Low Profile	Robust Capacity
CUTTER CAPACITY (DIA X DEPTH)	Auto: 1-3/16 x 1-3/4" Manual: 1-3/8 x 2"	1-3/8 x 1-3/16"	Up To 4-3/4" Dia, 4" Depth
TWIST DRILL CAPACITY	1/2"	-	1-1/4"
TAP CAPACITY	-	-	1-1/4"
WEIGHT	36 lbs	23 lbs	64.6 lbs
MAGNETIC STRENGTH	3370 lbs	3300 lbs	7200 lbs
MOTOR POWER	1100 Watt	1100 Watt	1700 Watt
MOTOR SPEED	550 RPM - Single Speed	650 RPM - Single Speed	1: 35 - 115 RPM, 2: 70 - 210 RPM 3: 80 - 250 RPM, 4: 140 - 450 RPM
STANDARD ARBOR TYPE	3/4" Weldon Shank - Set Screw	3/4" Weldon Shank Quick Change	3/4" Weldon Shank - Set Screw 3MT
ARBORS / CHUCKS (ALSO INCLUDED)	-	-	QX114 1-1/4" Arbor QX1235 Drill Chuck
ARBORS / CHUCKS (OPTIONAL)	QXSB35	-	QX1400 3" Depth Arbor

MiniBrute Magnetic Drill Press

AC35 | Powerful & Lightweight | Only 23lbs



Application: Ideal For Professionals Who Need A Reliable & Lightweight Solution For Drilling Holes In Steel

Cutter Capacity: 1-3/8" Dia x 2" Depth | **Twist Drill Capacity:** 3/4"

Motor: 1100W | **Weight:** 23 lbs | **Magnet Strength:** 2200 lbs | **Motor Speed:** 600 RPM | **Arbor:** 3/4" Quick Release

Advantages: Easy To Maneuver Around Job Site, Cutters Changed Quickly With No Tools, Industrial Strength Magnet, Secure Hold To Steel For Vertical & Horizontal Drilling, Coolant Tank Assembly - BruteLube Flows Through Cutters For Optimal Tool Performance & Life, Easily Change From Annular Cutters To Twist Drills (Drill Chuck Sold Separately)

ADDITIONAL ARBORS & ADAPTERS



**AC3502LQ
Arbor**



**AC3502-M
Arbor**



**QX1220
Drill Chuck / Adapter**

AC3502LQ Arbor:

Standard Quick-Change Arbor (Included)
For Use With Standard 3/4" Weldon Shank Annular Cutters
Up To 1-3/8" Dia x 2" Depth Of Cut

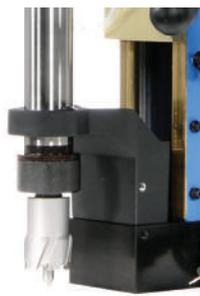
AC3502-M Arbor:

Optional Set Screw Arbor (Sold Separately)
For Use With Standard 3/4" Weldon Shank Annular Cutters
Up To 1-3/8" Dia x 2" Depth Of Cut

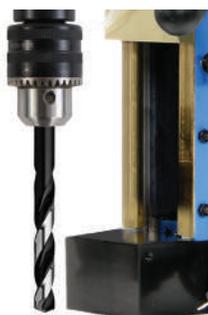
QX1220 Drill Chuck / Adapter:

Optional 1/2" Drill Chuck (Sold Separately)
For Use with Twist Drills With Shanks Up To 1/2" Dia
Accepts 1/2" Shank Twist Drills Or Reamers Up to 3/4" Dia

USE WITH CUTTING TOOLS



Annular Cutters



**Twist Drills, Reamers,
Hole Saws, Countersinks**

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: Carrying Case, Hex Keys, Safety Strap, External Coolant Bottle, Safety Guard, Quick Change Arbor Enables Rapid Cutter Change - For Use With Standard 3/4" Weldon Shank Cutters

Optional: QX1220 Drill / Chuck Adapter Sold Separately For Use With Twist Drills Up To 3/4"

VariBrute Magnetic Drill Press

AC42 | Versatile | Cut, Drill, Ream, Tap, De-Bur



Application: Ideal For Professionals Who Require Use Of Multiple Cutting Tools - Annular Cutters, Twist Drills, Taps

Cutter Capacity: 1-1/2" Dia x 2" Depth | **Twist Drill Capacity:** 1" | **Tap Capacity:** 3/4"

Motor: 1100W | **Weight:** 29 lbs | **Magnet Strength:** 3800 lbs | **Arbor:** 3/4" Quick Release

Motor Speed: 225 - 450 RPM Variable Speed / Reverse

Advantages: 5 Cutting Operations - 1 Mag Drill. Use With Annular Cutters, Twist Drills, Reamers, Taps, & Countersinks. Engineered For Heavy Duty Use. Variable Speed / Reverse Features Ideal For Tapping Operations. Quick Change Fast, Productive Cutter Change. Easily Converts From Annular Cutters To Other Cutting Tools

ADDITIONAL ARBORS & ADAPTERS



**QX1234
Drill Chuck**



**Tap123
Tap Chuck**

QX1234 Drill Chuck:

1/2" Drill Chuck (Included)

3/4" Weldon Shank For Quick/Easy Switch From Standard Arbor

For Use With Twist Drills With Shanks Up To 1/2" Dia

Will Accept 1/2" Shank Twist Drills Up to 1" Dia

Tap123 Tap Chuck:

Tap Chuck (Included)

Tap Capacity - 3/4"

USE WITH CUTTING TOOLS



Annular Cutters



Twist Drills



Reamers



Taps



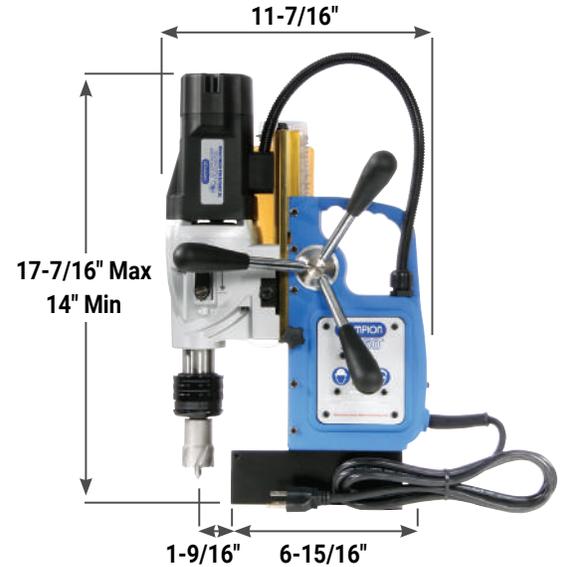
Countersinks

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: Carrying Case, Quick Release Arbor, Drill / Chuck Adapter, Tap Chuck, Coolant Tank Assembly, Safety Guard, Safety Strap, Hex Key

MightiBrute Magnetic Drill Press

AC50 | Powerful & Versatile | Use With Annular Cutters Or Twist Drills



Application: Ideal For Professionals That Have Large Capacity Drilling Needs & Value A Powerful Solution

Cutter Capacity: 2-1/8" Dia x 2" Depth | **Twist Drill Capacity:** 1"

Motor: 1100W | **Weight:** 33 lbs | **Magnet Strength:** 3370 lbs | **Arbor:** 3/4" Quick Release

Motor Speed: 300/450 RPM Two Speed

Advantages: 2 Speed Motor, Easily Change From Annular Cutters To Twist Drills, Change Cutters Quickly With No Tools, Industrial Strength Magnet For Secure Hold To Steel / Vertical & Horizontal Drilling, Coolant Tank Assembly - BruteLube Flows Through Cutters For Optimal Tool Performance & Life

ADDITIONAL ARBORS & ADAPTERS



**QX1234
Drill Chuck**

QX1234 Drill Chuck:

1/2" Drill Chuck (Included)

3/4" Weldon Shank For Quick/Easy Switch From Standard Arbor

For Use With Twist Drills & Cutting Tools With Shanks Up To 1/2" Dia

Will Accept 1/2" Shank Twist Drills Up to 1" Dia

USE WITH CUTTING TOOLS



Annular Cutters



Twist Drills

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: Carrying Case, Safety Guard, Removable Handle, Safety Chain, External Coolant Bottle, Quick Change Arbor, Drill/Chuck Adapter

SmartBrute Magnetic Drill Press

SB35 | Semi Automatic For Maximum Productivity



Application: Ideal For Assembly Line Work & Fabrication Projects That Require Automation

Cutter Capacity: Auto 1-3/16" Dia x 1-3/4" Depth, Manual 1-3/8" Dia x 2" Depth | **Twist Drill Capacity:** 1/2"

Motor: 1100W | **Weight:** 36 lbs | **Magnet Strength:** 3370 lbs | **Arbor:** Set Screw

Motor Speed: 550 RPM Variable Speed/Reverse

Advantages: Semi-Automatic Magnetic Drill Press. Engineered For Optimal Productivity On Your Job Site.

Smart: Automatic Power Feed Technology Increases Productivity Due To Consistent Drilling & Increased Cutter Life.

Safe: Cycle Stop Sensor Shuts Off Motor Automatically After Hole Is Cut. **Fast:** Controlled Feed Rates Optimize Drill &

Annular Cutter Life. Flexible: Can Be Used In Auto Or Manual Mode

ADDITIONAL ARBORS & ADAPTERS



**SB35-1
Arbor**



**QXSB35
Drill Chuck / Adapter**

SB35-1 Arbor:

Standard Set Screw Arbor (Included)

For Use With Standard 3/4" Weldon Shank Annular Cutters

Auto Feed Capacity: 1-3/16" Dia x 1-3/4" Depth Of Cut

Manual Feed Capacity: 1-3/8" Dia x 2" Depth Of Cut

QXSB35 Drill Chuck / Adapter:

Optional 1/2" Drill Chuck (Sold Separately)

For Use With Twist Drills With Shanks Up to 1/2" Dia

Will Accept 1/2" Shank Twist Drills Up to 3/4" Dia

USE WITH CUTTING TOOLS



Annular Cutters

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: Carrying Case, Safety Strap, 3/4" Set Screw Arbor, 8mm Wrench, Safety Guard, 2.5mm Hex Key, 4mm Hex Key, Coolant Tank

Optional: QXSB35 Drill / Chuck Adapter Sold Separately For Use With Twist Drills Up To 1/2"

LittleBrute Magnetic Drill Press

RB30 | Low Profile & Lightweight | Only 23lbs | Fits Between I-Beam Flanges



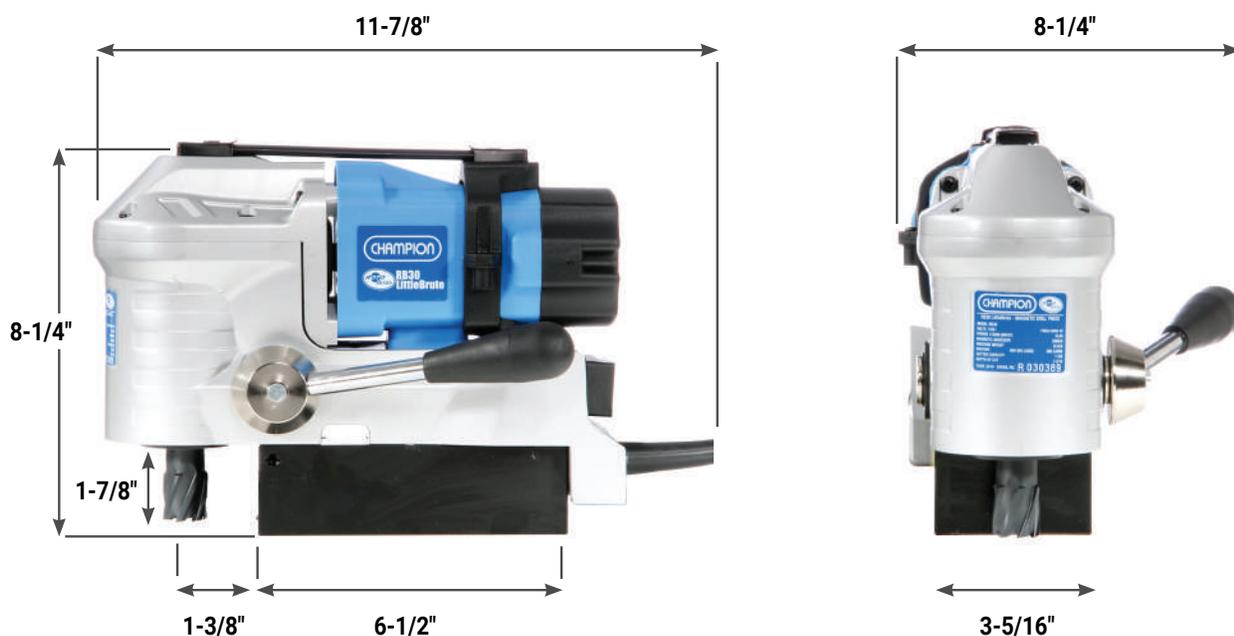
Application: Ideal For Inside Beam Flanges, Truck Frames, Truck Wheel Arches & Other Hard To Reach Places

Cutter Capacity: 1-3/8" Dia x 1-3/16" Depth

Motor: 1100W | **Weight:** 23 lbs | **Magnet Strength:** 3300 lbs | **Motor Speed:** 650 RPM | **Arbor:** 3/4"

Advantages: Easy To Maneuver Around Job Site, Industrial Strength Magnet For Secure Hold To Steel / Vertical & Horizontal Drilling, LED Light For Improved Visibility, Versatile Handle Can Be Removed For Use On Both Sides

ENGINEERED TO FIT IN TIGHT SPACES



USE WITH CUTTING TOOLS



Annular Cutters

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: Carrying Case, Hex Keys, Wrench, Safety Guard, Removable Handle, Safety Strap

SuperBrute Magnetic Drill Press

AC120 | Robust Capacity | Large & Long Cutters



Application: Ideal For Steel Fabrication When Extra Large Drilling Capacity Is Required

Cutter Capacity: Up To 4-3/4" Dia, Up To 4" Depth | **Twist Drill Capacity:** 1-1/4" | **Tap Capacity:** 1-1/4"

Motor: 1700W | **Weight:** 64.6 lbs | **Magnet Strength:** 7200 lbs | **Arbor:** 3/4" Quick Release

Motor Speed: Variable Speed / Reverse, **1:** 35 - 115 RPM, **2:** 70 - 210 RPM, **3:** 80 - 250 RPM, **4:** 140 - 450 RPM

Advantages: Extra Large & Deep Drilling Capacity, For Extreme Steel Fab, Rugged For Toughest Jobs, Can Use Bridge Reamers & MT3 Twist Drills

ARBORS & ADAPTERS



**QX1235
Drill Chuck**



**QX134
Arbor**



**QX114
Arbor**



**QX1400
Arbor**

QX1235 Drill Chuck:

For Use With Twist Drills, Reamers, Countersinks
Up to 1-1/4" Dia

QX134 Arbor:

Standard Arbor
For Use With 3/4" Weldon Shank Annular Cutters
7/16 to 2-1/4" Dia, Up to 4" Depth

QX114 Arbor:

Large Dia Arbor
For Use With 1-1/4" Weldon Shank Annular Cutters
2-3/8 to 4" Dia, Up to 2" Depth

QX1400 Arbor:

Large Dia x Depth Arbor (Sold Separately)
For Use With 1-1/4" Weldon Shank Annular Cutters
2-3/8 to 4-3/4" Dia, Up to 3" Depth

USE WITH CUTTING TOOLS



Annular Cutters



Twist Drills



Maintenance Reamers



Bridge Reamers



Taps

Industries: Steel Fabrication & Erection Industry, Truck/Trailer Frame Fabrication, Plant Maintenance, Refineries, Power Generation, Mining, Construction, Bridge Work & Ship Building

Contents: 3/4" Shank x Up to 4" Depth Arbor, 1-1/4" Shank x 2" Depth Arbor, Drill Chuck, Handles, Safety Strap, Chip Guard, Coolant Tank Assembly, Hex Keys, Wrench, Drift Key

Optional: QX1400 1-1/4" Shank x 3" Depth Arbor, Tap Collets

Carbide Tipped Annular Cutters

CT150 / CT200 / CT300 / CT400

CT150 | 1-3/8" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT150-1/2	1/2	3/4	CT150-PIN
CT150-9/16	9/16	3/4	CT150-PIN
CT150-5/8	5/8	3/4	CT150-PIN
CT150-11/16	11/16	3/4	CT150P
CT150-3/4	3/4	3/4	CT150P
CT150-13/16	13/16	3/4	CT150P
CT150-7/8	7/8	3/4	CT150P
CT150-15/16	15/16	3/4	CT150P
CT150-1	1	3/4	CT150P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT150-1-1/16	1-1/16	3/4	CT150P
CT150-1-1/8	1-1/8	3/4	CT150P
CT150-1-3/16	1-3/16	3/4	CT150P
CT150-1-1/4	1-1/4	3/4	CT150P
CT150-1-5/16	1-5/16	3/4	CT150P
CT150-1-3/8	1-3/8	3/4	CT150P
CT150-1-7/16	1-7/16	3/4	CT150P
CT150-1-1/2	1-1/2	3/4	CT150P
CT150-1-9/16	1-9/16	3/4	CT150P



CT200 | 2" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT200-1/2	1/2	3/4	CT200-PIN
CT200-9/16	9/16	3/4	CT200-PIN
CT200-5/8	5/8	3/4	CT200-PIN
CT200-11/16	11/16	3/4	CT200P
CT200-3/4	3/4	3/4	CT200P
CT200-13/16	13/16	3/4	CT200P
CT200-7/8	7/8	3/4	CT200P
CT200-15/16	15/16	3/4	CT200P
CT200-1	1	3/4	CT200P
CT200-1-1/16	1-1/16	3/4	CT200P
CT200-1-1/8	1-1/8	3/4	CT200P
CT200-1-3/16	1-3/16	3/4	CT200P
CT200-1-1/4	1-1/4	3/4	CT200P
CT200-1-5/16	1-5/16	3/4	CT200P
CT200-1-3/8	1-3/8	3/4	CT200P
CT200-1-7/16	1-7/16	3/4	CT200P
CT200-1-1/2	1-1/2	3/4	CT200P
CT200-1-9/16	1-9/16	3/4	CT200P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT200-1-5/8	1-5/8	3/4	CT200P
CT200-1-11/16	1-11/16	3/4	CT200P
CT200-1-3/4	1-3/4	3/4	CT200P
CT200-1-13/16	1-13/16	3/4	CT200P
CT200-1-7/8	1-7/8	3/4	CT200P
CT200-1-15/16	1-15/16	3/4	CT200P
CT200-2	2	3/4	CT200P
CT200-2-1/8	2-1/8	3/4	CT200P
CT200-2-1/4	2-1/4	3/4	CT200P
CT200-2-3/8	2-3/8	1-1/14	CT200-PIN-1-1/4
CT200-2-1/2	2-1/2	1-1/14	CT200-PIN-1-1/4
CT200-2-5/8	2-5/8	1-1/14	CT200-PIN-1-1/4
CT200-2-3/4	2-3/4	1-1/14	CT200-PIN-1-1/4
CT200-3	3	1-1/14	CT200-PIN-1-1/4
CT200-3-1/4	3-1/4	1-1/14	CT200-PIN-1-1/4
CT200-3-1/2	3-1/2	1-1/14	CT200-PIN-1-1/4
CT200-4	4	1-1/14	CT200-PIN-1-1/4



Power Tool: RotoBrute® Magnetic Drill Press Systems, Most Other Mag Drill Systems That Accept Weldon Shanks

Application: Drill Large Diameter Holes In Cast Iron, Steel, Stainless Steel, & Other Tough Or Exotic Alloys

Features: Ultra-Hard Carbide Teeth & Triple-Edge Cutting System Cut Fast, Bur-Free Holes, Pilot Pin (Sold Separately) Ejects Metal Plug For High Production Drilling, Weldon Style Flats

Advantage: Outperform Standard HSS Annular Cutters, Use BruteLube Fluid Or Wax For Enhanced Heat Resistance & Longer Tool Life. Fast Loading & Better Rigidity

CT300 | 3" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT300-3/4	3/4	3/4	CT300P
CT300-13/16	13/16	3/4	CT300P
CT300-7/8	7/8	3/4	CT300P
CT300-15/16	15/16	3/4	CT300P
CT300-1	1	3/4	CT300P
CT300-1-1/16	1-1/16	3/4	CT300P
CT300-1-1/8	1-1/8	3/4	CT300P
CT300-1-3/16	1-3/16	3/4	CT300P
CT300-1-1/4	1-1/4	3/4	CT300P
CT300-1-5/16	1-5/16	3/4	CT300P
CT300-1-3/8	1-3/8	3/4	CT300P
CT300-1-1/2	1-1/2	3/4	CT300P
CT300-1-5/8	1-5/8	3/4	CT300P
CT300-1-3/4	1-3/4	3/4	CT300P
CT300-2	2	3/4	CT300P
CT300-2-1/8	2-1/8	1-1/14	CT300P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT300-2-1/4	2-1/4	1-1/14	CT300P
CT300-2-3/8	2-3/8	1-1/14	CT300-PIN-1-1/4
CT300-2-1/2	2-1/2	1-1/14	CT300-PIN-1-1/4
CT300-2-5/8	2-5/8	1-1/14	CT300-PIN-1-1/4
CT300-2-3/4	2-3/4	1-1/14	CT300-PIN-1-1/4
CT300-2-7/8	2-7/8	1-1/14	CT300-PIN-1-1/4
CT300-3	3	1-1/14	CT300-PIN-1-1/4
CT300-3-1/8	3-1/8	1-1/14	CT300-PIN-1-1/4
CT300-3-1/4	3-1/4	1-1/14	CT300-PIN-1-1/4
CT300-3-3/8	3-3/8	1-1/14	CT300-PIN-1-1/4
CT300-3-1/2	3-1/2	1-1/14	CT300-PIN-1-1/4
CT300-3-5/8	3-5/8	1-1/14	CT300-PIN-1-1/4
CT300-3-3/4	3-3/4	1-1/14	CT300-PIN-1-1/4
CT300-3-7/8	3-7/8	1-1/14	CT300-PIN-1-1/4
CT300-4	4	1-1/14	CT300-PIN-1-1/4



CT400 | 4" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT400-3/4	3/4	3/4	CT400P
CT400-13/16	13/16	3/4	CT400P
CT400-7/8	7/8	3/4	CT400P
CT400-15/16	15/16	3/4	CT400P
CT400-1	1	3/4	CT400P
CT400-1-1/16	1-1/16	3/4	CT400P
CT400-1-1/8	1-1/8	3/4	CT400P
CT400-1-3/16	1-3/16	3/4	CT400P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT400-1-1/4	1-1/4	3/4	CT400P
CT400-1-5/16	1-5/16	3/4	CT400P
CT400-1-3/8	1-3/8	3/4	CT400P
CT400-1-1/2	1-1/2	3/4	CT400P
CT400-1-5/8	1-5/8	3/4	CT400P
CT400-1-3/4	1-3/4	3/4	CT400P
CT400-2	2	3/4	CT400P



Set

Part #	Qty	Depth Of Cut (in)	Contents
CT150-SET	3 Piece	1-3/8"	13/16", 15/16", 1-1/16" & Pilot Pin



Pilot Pins: For Use In Annular Cutters, Centers Hole, Guides Flow Of Lubricant When Using Mag Drills With Coolant Systems, Ejects Metal Plug When Finished Drilling



Carbide Tipped Stack Cutters



CT150STK / CT200STK | Drill Multiple Plates

CT150STK | 1-3/8" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT150STK-9/16	9/16	3/4	CT150-PIN
CT150STK-5/8	5/8	3/4	CT150-PIN
CT150STK-11/16	11/16	3/4	CT150P
CT150STK-3/4	3/4	3/4	CT150P
CT150STK-13/16	13/16	3/4	CT150P
CT150STK-7/8	7/8	3/4	CT150P
CT150STK-15/16	15/16	3/4	CT150P
CT150STK-1	1	3/4	CT150P



CT200STK | 2" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
CT200STK-13/16	13/16	3/4	CT200P
CT200STK-7/8	7/8	3/4	CT200P
CT200STK-15/16	15/16	3/4	CT200P
CT200STK-1	1	3/4	CT200P
CT200STK-1-1/16	1-1/16	3/4	CT200P
CT200STK-1-1/8	1-1/8	3/4	CT200P
CT200STK-1-3/16	1-3/16	3/4	CT200P
CT200STK-1-1/4	1-1/4	3/4	CT200P

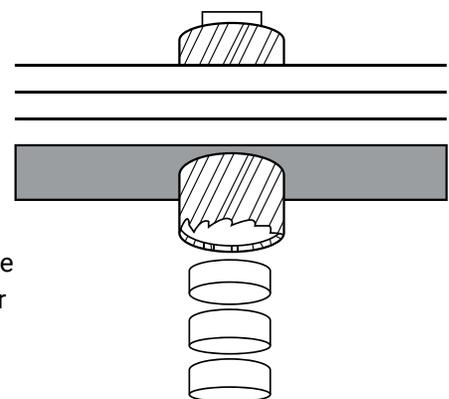


Power Tool: RotoBrute® Magnetic Drill Press Systems, Most Other Mag Drill Systems That Accept Weldon Shanks

Application: Drill Bur-Free Holes Through Steel, Stainless Steel, Cast Iron & Exotic Alloys Up to 1-3/8 Thick, Drill Through Multiple Stacked Plates & Truck/Trailer Frames, Cutter Is Designed To Hold First Metal Plug To Allow For Seamless, Second Cut

Features: Ultra-Sharp Carbide Teeth, Special Inner Diameter Grind

Advantage: Cuts Cylindrical Steel Slugs Enabling Multiple Slugs To Build Up Inside Cutter - Cleanly Ejected When Final Plate Is Drilled, Use BruteLube Fluid Or Wax For Enhanced Heat Resistance & Longer Tool Life



Note: CT150STK Is Ideal For Use With RotoBrute® RB30 Low Profile Mag Drill

HSS Annular Cutters



CS100 / CS200 | Bright Finish | Includes Pilot Pin

CS100 | 1" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Included)
CS100-7/16	7/16	3/4	CS100-7/16
CS100-1/2	1/2	3/4	CS100P
CS100-9/16	9/16	3/4	CS100P
CS100-5/8	5/8	3/4	CS100P
CS100-11/16	11/16	3/4	CS100P
CS100-3/4	3/4	3/4	CS100P
CS100-13/16	13/16	3/4	CS100P
CS100-7/8	7/8	3/4	CS100P
CS100-15/16	15/16	3/4	CS100P
CS100-1	1	3/4	CS100P
CS100-1-1/16	1-1/16	3/4	CS100P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Included)
CS100-1-1/8	1-1/8	3/4	CS100P
CS100-1-3/16	1-3/16	3/4	CS100P
CS100-1-1/4	1-1/4	3/4	CS100P
CS100-1-5/16	1-5/16	3/4	CS100P
CS100-1-3/8	1-3/8	3/4	CS100P
CS100-1-1/2	1-1/2	3/4	CS100P
CS100-1-5/8	1-5/8	3/4	CS100P
CS100-1-3/4	1-3/4	3/4	CS100P
CS100-1-7/8	1-7/8	3/4	CS100P
CS100-2	2	3/4	CS100P



CS200 | 2" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Included)
CS200-7/16	7/16	3/4	CS200-7/16
CS200-1/2	1/2	3/4	CS200P
CS200-9/16	9/16	3/4	CS200P
CS200-5/8	5/8	3/4	CS200P
CS200-11/16	11/16	3/4	CS200P
CS200-3/4	3/4	3/4	CS200P
CS200-13/16	13/16	3/4	CS200P
CS200-7/8	7/8	3/4	CS200P
CS200-15/16	15/16	3/4	CS200P
CS200-1	1	3/4	CS200P
CS200-1-1/16	1-1/16	3/4	CS200P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Included)
CS200-1-1/8	1-1/8	3/4	CS200P
CS200-1-3/16	1-3/16	3/4	CS200P
CS200-1-1/4	1-1/4	3/4	CS200P
CS200-1-5/16	1-5/16	3/4	CS200P
CS200-1-3/8	1-3/8	3/4	CS200P
CS200-1-1/2	1-1/2	3/4	CS200P
CS200-1-5/8	1-5/8	3/4	CS200P
CS200-1-3/4	1-3/4	3/4	CS200P
CS200-1-7/8	1-7/8	3/4	CS200P
CS200-2	2	3/4	CS200P



Set

Part #	Qty	Depth Of Cut (in)	Contents
CS200-SET	5 Piece	2"	9/16, 11/16, 13/16, 15/16, 1-1/16 & Pilot Pin



Power Tool: RotoBrute® Magnetic Drill Press Systems, Most Other Mag Drill Systems That Accept Weldon Shanks

Application: Drill Holes In Steel Plate, Structural Beams, Pipe, Tube

Features: Pilot Pin Ejects Metal Plug For Fast, Productive Drilling

Note: Use BruteLube Fluid Or Wax For Enhanced Heat Resistance & Longer Tool Life

HSS Annular Cutters

XL100 / XL200 | Surface Treated

XL100 | 1" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
XL100-7/16	7/16	3/4	XL100P-7/16
XL100-1/2	1/2	3/4	XL100P
XL100-17/32	17/32	3/4	XL100P
XL100-9/16	9/16	3/4	XL100P
XL100-5/8	5/8	3/4	XL100P
XL100-21/32	21/32	3/4	XL100P
XL100-11/16	11/16	3/4	XL100P
XL100-23/32	23/32	3/4	XL100P
XL100-3/4	3/4	3/4	XL100P
XL100-25/32	25/32	3/4	XL100P
XL100-13/16	13/16	3/4	XL100P
XL100-7/8	7/8	3/4	XL100P
XL100-15/16	15/16	3/4	XL100P
XL100-1	1	3/4	XL100P
XL100-1-1/16	1-1/16	3/4	XL100P
XL100-1-1/8	1-1/8	3/4	XL100P
XL100-1-3/16	1-3/16	3/4	XL100P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
XL100-1-1/4	1-1/4	3/4	XL100P
XL100-1-5/16	1-5/16	3/4	XL100P
XL100-1-3/8	1-3/8	3/4	XL100P
XL100-1-7/16	1-7/16	3/4	XL100P
XL100-1-1/2	1-1/2	3/4	XL100P
XL100-1-9/16	1-9/16	3/4	XL100P
XL100-1-5/8	1-5/8	3/4	XL100P
XL100-1-11/16	1-11/16	3/4	XL100P
XL100-1-3/4	1-3/4	3/4	XL100P
XL100-1-13/16	1-13/16	3/4	XL100P
XL100-1-7/8	1-7/8	3/4	XL100P
XL100-1-15/16	1-15/16	3/4	XL100P
XL100-2	2	3/4	XL100P
XL100-2-1/16	2-1/16	3/4	XL100P
XL100-2-1/8	2-1/8	3/4	XL100P
XL100-2-3/16	2-3/16	3/4	XL100P
XL100-2-1/4	2-1/4	3/4	XL100P



XL200 | 2" Depth Of Cut

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
XL200-7/16	7/16	3/4	XL200P-7/16
XL200-1/2	1/2	3/4	XL200P
XL200-17/32	17/32	3/4	XL200P
XL200-9/16	9/16	3/4	XL200P
XL200-5/8	5/8	3/4	XL200P
XL200-11/16	11/16	3/4	XL200P
XL200-3/4	3/4	3/4	XL200P
XL200-13/16	13/16	3/4	XL200P
XL200-7/8	7/8	3/4	XL200P
XL200-15/16	15/16	3/4	XL200P
XL200-1	1	3/4	XL200P
XL200-1-1/16	1-1/16	3/4	XL200P
XL200-1-1/8	1-1/8	3/4	XL200P
XL200-1-3/16	1-3/16	3/4	XL200P
XL200-1-1/4	1-1/4	3/4	XL200P
XL200-1-5/16	1-5/16	3/4	XL200P

Part #	Size (in)	Shank Size (in)	Pilot Pin (Not Included)
XL200-1-3/8	1-3/8	3/4	XL200P
XL200-1-7/16	1-7/16	3/4	XL200P
XL200-1-1/2	1-1/2	3/4	XL200P
XL200-1-9/16	1-9/16	3/4	XL200P
XL200-1-5/8	1-5/8	3/4	XL200P
XL200-1-11/16	1-11/16	3/4	XL200P
XL200-1-3/4	1-3/4	3/4	XL200P
XL200-1-13/16	1-13/16	3/4	XL200P
XL200-1-7/8	1-7/8	3/4	XL200P
XL200-1-15/16	1-15/16	3/4	XL200P
XL200-2	2	3/4	XL200P
XL200-2-1/16	2-1/16	3/4	XL200P
XL200-2-1/8	2-1/8	3/4	XL200P
XL200-2-3/16	2-3/16	3/4	XL200P
XL200-2-1/4	2-1/4	3/4	XL200P



Sets

Part #	Qty	Depth Of Cut	Contents
XL100-SET	5 Piece	1"	9/16, 11/16, 13/16, 15/16, 1-1/16 & Pilot Pin
XL200-SET	5 Piece	2"	9/16, 11/16, 13/16, 15/16, 1-1/16 & Pilot Pin



Pilot Pins: For Use In Annular Cutters, Centers Hole, Guides Flow Of Lubricant When Using Mag Drills With Coolant Systems, Ejects Metal Plug When Finished Drilling

Power Tool: RotoBrute® Magnetic Drill Press Systems, Most Other Mag Drill Systems That Accept Weldon Shanks

Application: Drill Large Diameter Holes In Steel Plate, Structural Beams, Pipe, Tube

Features: Surface Treated High Speed Steel, Weldon Style Flats, Pilot Pin (Sold Separately) Ejects Metal Plug For High Production Drilling, Weldon Style Flats

Advantage: Fast Cutting & Long Cutter Life, 2x Longer Life Than Standard HSS Cutters, Use BruteLube For Enhanced Heat Resistance & Smoother Cuts

Magnetic Pick-Up Tool



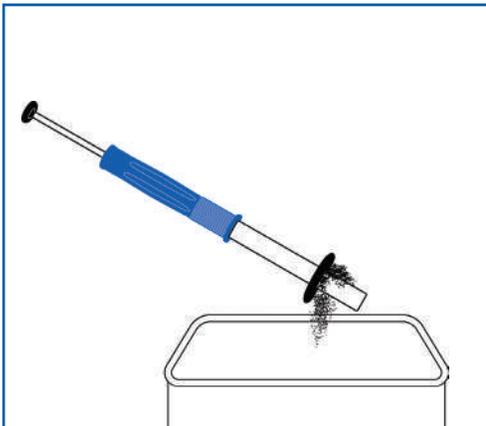
Part # RMX7 | Heavy Duty Magnet



Step 1: Wave Pick-Up Tool Over Metal Chips or Debris



Step 2: Allow Pick-Up Tool To Attract Metal Pieces



Step 3: Hold Pick-Up Tool Over Trash Receptacle & Pull Back Release Knob



Application: Perfect Clean Up Tool For Any Workshop, Job Site, Or Machine Shop
Heavy Duty Magnet Easily Picks Up Metal Chips & Shavings
Ideal Tool For Steel Fabricators To Safely Clean Up Metal Plugs

CUTTING FLUID & WAX

extend tool life.

BruteLube Is A Non-Negotiable. Use It In Every
Metal Cutting Or Drilling Application To Optimize
Tool Function & Life.



Metal Cutting Tool Wax



BruteLube Lubricant | Industrial Performance

BruteLube Cutting Wax

Part #	Size (Oz)
XLUB-WAX-2	2
XLUB-WAX-16	16
XLUB-STICK-16	16 (Stick)

Application: For Most Metal Drilling & Cutting Applications

Works Well With: Twist Drills, Carbide Tipped Hole Cutters, Reamers, Annular Cutters, Countersinks, Saw Blades

Materials: Effective On Steel, Stainless Steel, Aluminum & Exotic Alloys

Features: Clings To Tools For A Continuous Shield Against Friction & Heat, Reduces Tool Costs, Increases Tool Life, Provides A Close Tolerance Precision Finish, Ideal For Overhead Operations & Use At Any Angle. Apply Directly To Cutting Tools, Less Mess Than Fluid

Note: For Best Results, Re-Apply Before Each Use



Metal Cutting & Tapping Fluid



BruteLube Lubricant | Industrial Performance

BruteLube Cutting & Tapping Fluid

Part #	Size (Oz)
XLUB4	4
XLUB16	16
XLUB128	128 (Gallon)

Application: For Most Metal Drilling & Cutting Applications

Works Well With: Taps, Annular Cutters, Twist Drills, Reamers, Countersinks

Materials: Effective On Steel, Stainless Steel, Aluminum & Exotic Alloys

Features: Coats Tools For A Continuous Shield Against Friction & Heat, Reduces Tool Costs, Increases Tool Life, Provides A Close Tolerance Precision Finish, Ideal For Use In Magnetic Drill Presses With Coolant System, Machining Applications, Or Apply Directly To Handheld Cutting Tools

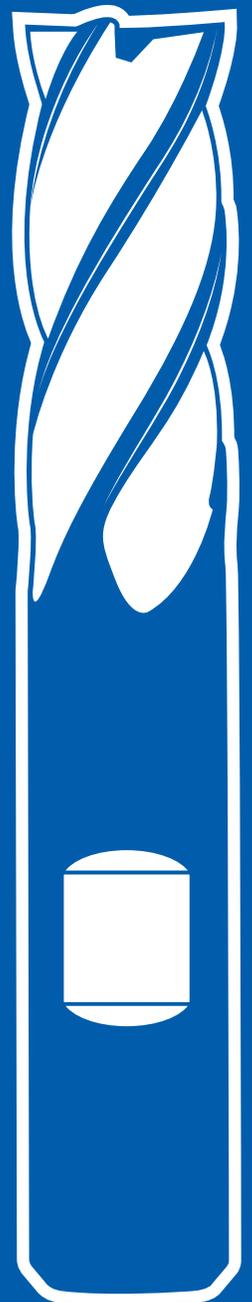
Note: For Best Results, Re-Apply Before Each Use



END MILLS

for fabrication.

Use Champion End Mills In Milling Machines & CNC
Machines. Create Parts, Fabricate Metal, Design Art.



End Mills



Series XLVC | 4 Flute | Solid Carbide | Single End | Corner Chamfer End | AlCrN Coated

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
XLVC-1/4	1/4	3/4	2-1/2
XLVC-3/8	3/8	7/8	2-1/2
XLVC-1/2	1/2	1-1/4	3
XLVC-5/8	5/8	1-1/4	3-1/2
XLVC-3/4	3/4	1-1/2	4
XLVC-1	1	1-1/2	4

Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Multi-Purpose – For Slotting, Side Milling, Plunge Cutting, Semi Finishing, & Finishing Of Cast Irons, Stainless Steel, Titanium Alloys, Carbon Alloys, High Temp Alloys

Features: 45° Chamfer, AlCrN Coating, 4 Flutes, Heavy Duty Core/End Geometry

Industry Applications: Aerospace, Medical, Automotive, Job shops, Mold Manufacturing

Advantage: Tool Life Extended, High Volume Material Removal Rates, Chatter-Free Machining, Increased Speed, Reduced Cost, Excellent Finish, Reduced Cycle & Setup Times, Excellent In Slotting Operations Up To 1.25D Axial Depth & Profiling Up To .5d Axial, Outperforms 5 Flute End Mills

Our Most Versatile End Mill

Slotting | Sidemilling | Plunge Cutting | Semi Finishing | Finishing



End Mills



Series 166 | 4 Flute | Single End | Solid Carbide

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)	Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
166-1/16X1/8	1/8	3/16	1-1/2	166-3/8X3/8	3/8	7/8	2-1/2
166-3/32X1/8	1/8	3/8	1-1/2	166-7/16X7/16	7/16	1	2-3/4
166-1/8X1/8	1/8	1/2	1-1/2	166-1/2X1/2	1/2	1	3
166-5/32X3/16	3/16	9/16	2	166-9/16X9/16	9/16	1-1/4	3-1/2
166-3/16X3/16	3/16	5/8	2	166-5/8X5/8	5/8	1-1/4	3-1/2
166-1/4X1/4	1/4	3/4	2-1/2	166-3/4X3/4	3/4	1-1/2	4
166-9/32X5/16	5/16	3/4	2-1/2	166-7/8X7/8	7/8	1-1/2	4
166-5/16X5/16	5/16	13/16	2-1/2	166-1X1	1	1-1/2	4



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: General Purpose Milling Of Difficult To Machine Materials

Features: 4 Flute - Single End - Center Cutting - Right Hand Helix

Advantage: 4 Flute Design Provides Good Wear Resistance For Excellent Size Control. Rigid Construction Results In Minimal Deflection

End Mills



Series 106 | 2 Flute | Single End | Solid Carbide

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)	Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
106-1/32X1/8	1/8	3/32	1-1/2	106-3/8X3/8	3/8	7/8	2-1/2
106-1/16X1/8	1/8	3/16	1-1/2	106-7/16X7/16	7/16	1	2-3/4
106-3/32X1/8	1/8	3/8	1-1/2	106-1/2X1/2	1/2	1	3
106-1/8X1/8	1/8	1/2	1-1/2	106-9/16X9/16	9/16	1-1/4	3-1/2
106-5/32X3/16	3/16	9/16	2	106-5/8X5/8	5/8	1-1/4	3-1/2
106-3/16X3/16	3/16	5/8	2	106-3/4X3/4	3/4	1-1/2	4
106-7/32X1/4	1/4	5/8	2	106-7/8X7/8	7/8	1-1/2	4
106-1/4X1/4	1/4	3/4	2-1/2	106-1X1	1	1-1/2	4



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Ideal For Slotting Applications, Can Be Used To Plunge Cut - Cast Irons, Non-Ferrous Light Metals & Plastics

Features: 2 Flute - Single End - Center Cutting - Right Hand Helix

End Mills



Series 600T | 2 Flute | Single End | TiN Coated HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
600T-1/8	3/8	3/8	2-5/16
600T-3/16	3/8	7/16	2-5/16
600T-1/4	3/8	1/2	2-5/16
600T-5/16	3/8	9/16	2-5/16
600T-3/8	3/8	9/16	2-5/16
600T-7/16	3/8	13/16	2-1/2
600T-1/2X3/8	3/8	13/16	2-1/2
600T-1/2X1/2	1/2	1	3
600T-9/16	1/2	1-1/8	3-1/8
600T-5/8X1/2	1/2	1-1/8	3-1/8
600T-5/8X5/8	5/8	1-5/16	3-7/16
600T-11/16X1/2	1/2	1-5/16	3-5/16
600T-11/16X5/8	5/8	1-5/16	3-7/16
600T-3/4X1/2	1/2	1-5/16	3-5/16
600T-3/4X5/8	5/8	1-5/16	3-7/16
600T-3/4X3/4	3/4	1-5/16	3-9/16
600T-13/16	5/8	1-1/2	3-5/8
600T-7/8X5/8	5/8	1-1/2	3-5/8
600T-7/8X7/8	7/8	1-1/2	3-3/4
600T-1X5/8	5/8	1-1/2	3-5/8
600T-1X3/4	3/4	1-1/2	3-3/4
600T-1X7/8	7/8	1-1/2	3-3/4
600T-1X1	1	1-5/8	4-1/8
600T-1-1/8X7/8	7/8	1-5/8	3-7/8
600T-1-1/8X1	1	1-5/8	4-1/8
600T-1-1/4X7/8	7/8	1-5/8	3-7/8
600T-1-1/4X1	1	1-5/8	4-1/8
600T-1-3/8	1	1-5/8	4-1/8
600T-1-1/2X1	1	1-5/8	4-1/8
600T-1-1/2X1-1/4	1-1/4	1-5/8	4-1/8
600T-1-3/4	1-1/4	1-5/8	4-1/8
600T-2	1-1/4	1-5/8	4-1/8



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Center Cutting Ability, For Production Milling Of Keyways Slots & Pockets. Plunge Cutting, Slotting, Pocketing & Profiling Of Steel, Tough Steel Alloys, Stainless Steel

Features: 2 Flute - Single End - Center Cutting - Right Hand Helix - Wide Deep Flutes

Advantage: Titanium Nitride Coating Increases Surface Hardness & Lubricity For Increased Durability

End Mills

Series 600 | 2 Flute | Single End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
600-1/8X3/8	3/8	3/8	2-5/16
600-3/16X3/8	3/8	7/16	2-5/16
600-1/4X3/8	3/8	1/2	2-5/16
600-5/16X3/8	3/8	9/16	2-5/16
600-3/8X3/8	3/8	9/16	2-5/16
600-7/16X3/8	3/8	13/16	2-1/2
600-1/2X3/8	3/8	13/16	2-1/2
600-1/2X1/2	1/2	1	3
600-9/16X1/2	1/2	1-1/8	3-1/8
600-5/8X1/2	1/2	1-1/8	3-1/8
600-5/8X5/8	5/8	1-5/16	3-7/16
600-11/16X1/2	1/2	1-5/16	3-5/16
600-11/16X5/8	5/8	1-5/16	3-7/16
600-3/4X1/2	1/2	1-5/16	3-5/16
600-3/4X5/8	5/8	1-5/16	3-7/16
600-3/4X3/4	3/4	1-5/16	3-9/16
600-13/16X5/8	5/8	1-1/2	3-5/8
600-7/8X5/8	5/8	1-1/2	3-5/8
600-7/8X7/8	7/8	1-1/2	3-3/4
600-1X5/8	5/8	1-1/2	3-5/8
600-1X3/4	3/4	1-1/2	3-3/4
600-1X7/8	7/8	1-1/2	3-3/4
600-1X1	1	1-5/8	4-1/8
600-1-1/8X7/8	7/8	1-5/8	3-7/8
600-1-1/8X1	1	1-5/8	4-1/8
600-1-1/4X7/8	7/8	1-5/8	3-7/8
600-1-1/4X1	1	1-5/8	4-1/8
600-1-1/4X1-1/4	1-1/4	1-5/8	4-1/8
600-1-3/8X1	1	1-5/8	4-1/8
600-1-1/2X1	1	1-5/8	4-1/8
600-1-1/2X1-1/4	1-1/4	1-5/8	4-1/8
600-1-3/4X1-1/4	1-1/4	1-5/8	4-1/8
600-2X1-1/4	1-1/4	1-5/8	4-1/8



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Center Cutting Ability, For Milling Of Keyways Slots & Pockets. Plunge Cutting, Slotting, Pocketing & Profiling Of Aluminum, Carbon Steel, Alloy Steel, Tool Steel & Cast Iron

Features: 2 Flute - Single End - Center Cutting - Right Hand Helix - Wide Deep Flutes

End Mills



Series 601 | Multi Flute | Single End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)	No. Of Flutes	Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)	No. Of Flutes
601-1/8X3/8	3/8	3/8	2-1/16	4	601-7/8X5/8	5/8	1-7/8	4	6
601-3/16X3/8	3/8	1/2	2-3/8	4	601-7/8X3/4	7/8	1-7/8	4-1/8	6
601-1/4X3/8	3/8	5/8	2-7/16	4	601-7/8X7/8	7/8	1-7/8	4-1/8	4
601-5/16X3/8	3/8	3/4	2-1/2	4	601-1X5/8	5/8	1-7/8	4	6
601-3/8X3/8	3/8	3/4	2-1/2	4	601-1X3/4	3/4	1-7/8	4-1/8	4
601-7/16X3/8	3/8	1	2-11/16	4	601-1X7/8	7/8	1-7/8	4-1/8	4
601-1/2X3/8	3/8	1	2-11/16	4	601-1X1	1	2	4-1/2	4
601-1/2X1/2	1/2	1-1/4	3-1/4	4	601-1-1/8X7/8	7/8	2	4-1/4	6
601-9/16X1/2	1/2	1-3/8	3-3/8	4	601-1-1/8X1	1	2	4-1/2	6
601-5/8X1/2	1/2	1-3/8	3-3/8	4	601-1-1/4X7/8	7/8	2	4-1/4	6
601-5/8X5/8	5/8	1-5/8	3-3/4	4	601-1-1/4X1	1	2	4-1/2	6
601-11/16X1/2	1/2	1-5/8	3-5/8	4	601-1-1/4X1-1/4	1-1/4	2	4-1/2	6
601-11/16X5/8	5/8	1-5/8	3-3/4	4	601-1-3/8X1	1	2	4-1/2	6
601-3/4X1/2	1/2	1-5/8	3-3/4	4	601-1-1/2X1	1	2	4-1/2	6
601-3/4X5/8	5/8	1-5/8	3-3/4	4	601-1-1/2X1-1/4	1-1/4	2	4-1/2	6
601-3/4X3/4	3/4	1-5/8	3-7/8	4	601-1-3/4X1-1/4	1-1/4	2	4-1/2	6
601-13/16X5/8	5/8	1-7/8	4	6	601-2X1-1/4	1-1/4	2	4-1/2	8
601-13/16X3/4	13/16	1-7/8	4	6					



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Non-Center Cut For General Purpose Profiling & Milling Of Slots & Pockets Where Plunge Cutting Is Not Required. Manufactured To A (+) Tolerance On Diameter, They Produce A Finer Finish On Work That Has Previously Been Roughed Out. Profile & Slot Copper Alloys, Cast Iron, Alloy Steels, Tool Steels

Features: Multi-Flute - Single End - Right Hand Helix

Advantage: Good For Finishing All Materials

End Mills



Series 602 | 2 Flute | Double End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
602-1/8X3/8	3/8	3/8	3-1/16
602-5/32X3/8	3/8	7/16	3-1/8
602-3/16X3/8	3/8	7/16	3-1/8
602-7/32X3/8	3/8	1/2	3-1/8
602-1/4X3/8	3/8	1/2	3-1/8
602-9/32X3/8	3/8	9/16	3-1/8
602-5/16X3/8	3/8	9/16	3-1/8
602-11/32X3/8	3/8	9/16	3-1/8
602-3/8X3/8	3/8	9/16	3-1/8
602-13/32X1/2	1/2	13/16	3-3/4

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
602-7/16X1/2	1/2	13/16	3-3/4
602-15/32X1/2	1/2	13/16	3-3/4
602-1/2X1/2	1/2	13/16	3-3/4
602-9/16X5/8	5/8	1-1/8	4-1/2
602-5/8X5/8	5/8	1-1/8	4-1/2
602-11/16X3/4	3/4	1-5/16	5
602-3/4X3/4	3/4	1-5/16	5
602-7/8X7/8	7/8	1-9/16	5-1/2
602-1X1	1	1-5/8	5-7/8



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: General Purpose Milling - Plunge Cutting, Slotting, Pocketing, Profiling Of Aluminum, Carbon Steel, Alloy Steel, Tool Steel, Cast Iron

Features: 2 Flute - Double End, Center Cutting, Right Hand Helix, Wide Deep Flutes

End Mills



Series 603 | 4 Flute | Double End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
603-1/8X3/8	3/8	3/8	3-1/16
603-5/32X3/8	3/8	7/16	3-1/8
603-3/16X3/8	3/8	1/2	3-1/4
603-7/32X3/8	3/8	9/16	3-1/4
603-1/4X3/8	3/8	5/8	3-3/8
603-9/32X3/8	3/8	11/16	3-3/8
603-5/16X3/8	3/8	3/4	3-1/2
603-11/32X3/8	3/8	3/4	3-1/2
603-3/8X3/8	3/8	3/4	3-1/2
603-13/32X1/2	1/2	1	4-1/8

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
603-7/16X1/2	1/2	1	4-1/8
603-15/32X1/2	1/2	1	4-1/8
603-1/2X1/2	1/2	1	4-1/8
603-9/16X5/8	5/8	1-3/8	5
603-5/8X5/8	5/8	1-3/8	5
603-11/16X3/4	3/4	1-5/8	5-5/8
603-3/4X3/4	3/4	1-5/8	5-5/8
603-13/16X7/8	7/8	1-7/8	6-1/8
603-7/8X7/8	7/8	1-7/8	6-1/8
603-1X1	1	1-7/8	6-3/8



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: Profiling & Slotting Where Plunge Cutting Not Required. For Use On Copper Alloys, Cast Iron, Alloy Steel, Tool Steel. Multi-Flute Produces Finer Surface Finish On Work Previously Roughed Out

Features: 4 Flute - Double End - Right Hand Helix

End Mills



Series 606 | 4 Flute | Single End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
606-1/8X3/8	3/8	3/8	2-5/16
606-3/16X3/8	3/8	1/2	2-3/8
606-1/4X3/8	3/8	5/8	2-7/16
606-5/16X3/8	3/8	3/4	2-1/2
606-3/8X3/8	3/8	3/4	2-1/2
606-1/2X1/2	1/2	1-1/4	3-1/4

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
606-5/8X5/8	5/8	1-5/8	3-3/4
606-3/4X3/4	3/4	1-5/8	3-7/8
606-1X1	1	2	4-1/2
606-1-1/4X1-1/4	1-1/4	2	4-1/2
606-1-1/2X1-1/4	1-1/4	2	4-1/2



Power Tool: Manual Milling Machines, CNC Milling Machines

Application: General Purpose Milling Of Slots & Pockets Where Plunge Cutting & Fine Surface Finish Is Required. Plunge Cutting, Profile, & Slotting Of Copper Alloys, Cast Iron, Alloy Steel, Tool Steel

Features: 4 Flute - Single End - Center Cutting - Right Hand Helix

End Mills



Series 607 | 4 Flute | Double End | HSS

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
607-1/8X3/8	3/8	3/8	3-1/16
607-3/16X3/8	3/8	1/2	3-1/4
607-1/4X3/8	3/8	5/8	3-3/8
607-5/16X3/8	3/8	3/4	3-1/2
607-3/8X3/8	3/8	3/4	3-1/2

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
607-1/2X1/2	1/2	1	4-1/8
607-5/8X5/8	5/8	1-3/8	5
607-3/4X3/4	3/4	1-5/8	5-5/8
607-7/8X7/8	7/8	1-7/8	6-1/8
607-1X1	1	1-7/8	6-3/8



Power Tool: Manual Milling Machine, CNC Milling Machine

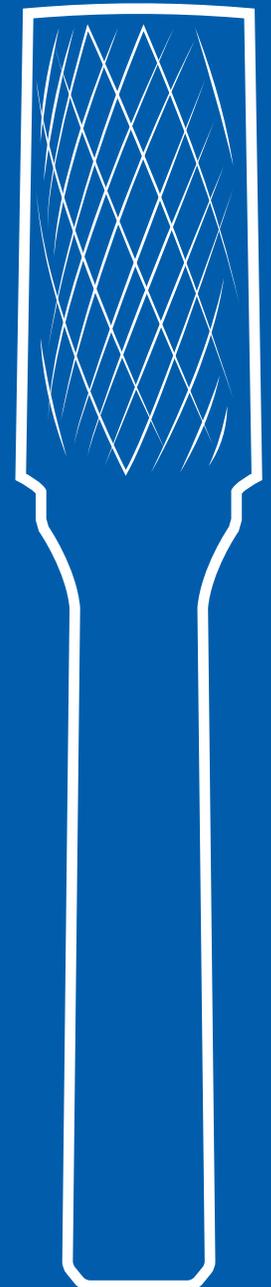
Application: General Purpose Milling Of Slots & Pockets Where Plunge Cutting & Fine Surface Finish Are Required. For Use Profiling & Slotting Copper Alloys, Cast Iron, Alloy Steel, Tool Steel

Features: 4 Flute - Double End - Center Cutting - Right Hand Helix

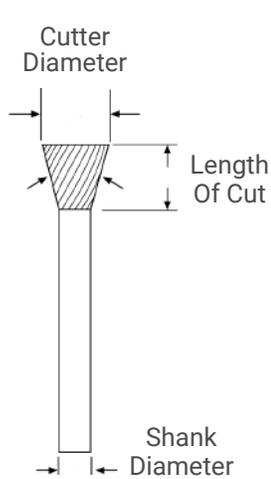
CARBIDE BURS

de-bur and shape.

Carbide Burs Are One Of The Most Versatile Metalworking Tools. Used In Virtually Every Industry - Manufacturing, Maintenance, Metal Fabrication, Art. Champion Burs Feature Consistent Geometry, Sharp Cutting Edges, & Vibration-Free Performance.



Carbide Burs



	Premium	Standard	Non-Ferrous	Extra Long	Miniature
FLUTE TYPE	Double Cut	Double Cut	Single Cut	Double Cut	Double Cut
SHANK	1/4"	1/4"	1/4"	1/4"	1/8"
COATING	TiN	Uncoated	Uncoated	Uncoated	Uncoated
MATERIAL APPLICATION	Ferrous Metals	Ferrous Metals	Non Ferrous / Aluminum	Ferrous Metals	Ferrous Metals
ADVANTAGE	Ultra Sharp, Optimized Material Removal, Vibration Free Performance, Efficient DeBurring, Superior Surface Finish, Longer Tool Life	N/A	Single Flutes Efficiently Peel Away Non-Ferrous / Aluminum Materials	For Use When Extra Length Is Needed	For Use In Tight Areas

Power Tool: Rotary Die Grinder

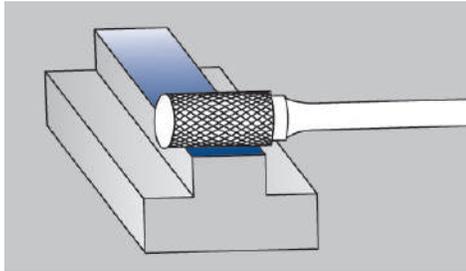
Application: Burs Are Rotary Cutting Tools That Are Used To Form, Reduce, Shape Smooth Or Clean Metals & Non-Ferrous Materials.

Industries: Popular Industries Include - Automotive, Aerospace, Foundry, Power Station, Ship Building, Manufacturing, Steel Fabrication. Available In Hundreds Of Shapes & Sizes, Carbide Burs Are Used In Virtually Every Industry For Mold & Pattern Making, Die Sinking, Tool Making, Maintenance, Weld Removal, & Casting Flash Removal.

Features: High Quality Tungsten Carbide, Feature Ultra Sharp Cutting Edges For Vibration-Free Performance & Long Tool Life

Note: Available In iPAC Merchandisable Pack

SA Cylinder Shape



Deburring

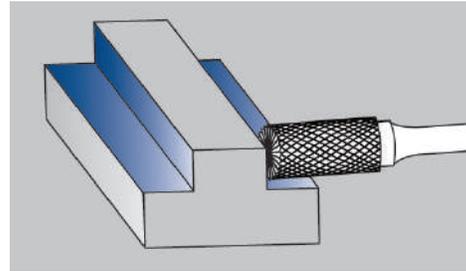
Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/8	1/2	SA11	-	-
1/8	5/8	SA12	-	-
5/32	5/8	SA13	-	-
3/16	5/8	SA14	-	-
1/4	5/8	SA1***	-	-
1/4	1	SA1L	-	-
1/4	3/4	-	SA1NF	-
1/4	1/2	-	-	SA1-L6*
5/16	3/4	SA2	-	-
3/8	3/4	SA3***	SA3NF	SA3-L6*
3/8	1	SA3L	-	-
3/8	1-1/2	SA3X	-	-
7/16	1	SA4	-	-
1/2	1	SA5***	SA5NF	SA5-L6*
5/8	1	SA6	SA6NF	-
3/4	1/2	SA15	-	-
3/4	3/4	SA16	-	-
3/4	1	SA7	SA7NF	-
3/4	1	-	SA7NF-3/8**	-
7/8	1	SA8	-	-
1	1	SA9	-	-

* 6" Overall Length

** 3/8" Shank

*** Available Without Titanium Nitride Coating.
Specify U (Uncoated) When Ordering
Example USA1. Burs Are TiN Coated Unless Specified

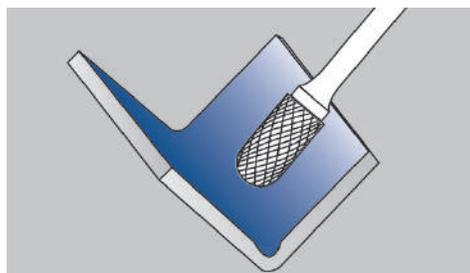
SB Cylinder End Cut



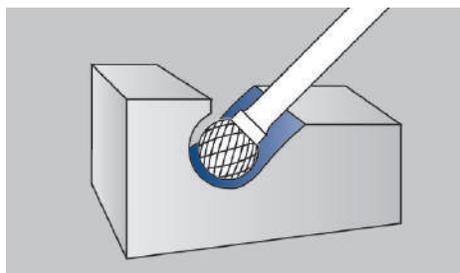
Interior Contouring Work

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/8	1/2	SB11	-	-
1/8	5/8	SB12	-	-
5/32	5/8	SB13	-	-
3/16	5/8	SB14	-	-
1/4	5/8	SB1***	-	-
1/4	1	SB1L	-	-
5/16	3/4	SB2	-	-
3/8	3/4	SB3***	-	-
3/8	1	SB3L	-	-
3/8	1-1/2	SB3X	-	-
7/16	1	SB4	-	-
1/2	1	SB5***	-	-
5/8	1	SB6***	-	-
3/4	1/2	SB15	-	-
3/4	3/4	SB16	-	-
3/4	1	SB7***	-	-
7/8	1	SB8	-	-
1	1	SB9	-	-

SC Cylinder Radius End



SD Ball Shape



Surface Milling / Contouring

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/8	1/2	SC11***	-	-
1/8	5/8	SC12	-	-
5/32	5/8	SC13	-	-
3/16	5/8	SC14	-	-
1/4	5/8	SC1***	-	-
1/4	1	SC1L	-	-
1/4	1/2	-	-	SC1-L6*
1/4	3/4	-	SC1NF	-
5/16	3/4	SC2	-	-
3/8	3/4	SC3***	SC3NF	SC3-L6*
3/8	1	SC3L	-	-
3/8	1-1/2	SC3X	-	-
7/16	1	SC4	-	-
1/2	1	SC5***	SC5NF	SC5-L6*
5/8	1	SC6	SC6NF	-
3/4	1/2	SC15	-	-
3/4	3/4	SC16	-	-
3/4	1	SC7***	SC7NF	-
3/4	1	-	SC7NF-3/8**	-
1	1	SC9	-	-

* 6" Overall Length

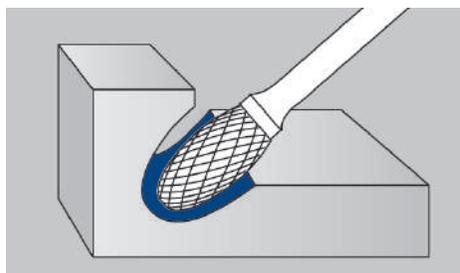
** 3/8" Shank

*** Available Without Titanium Nitride Coating.
Specify U (Uncoated) When Ordering
Example USA1. Burs Are TiN Coated Unless Specified

Contouring / Hole Deburring / Milling

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/8	3/32	SD11	-	-
3/16	1/8	SD14***	-	-
1/4	7/32	SD1***	SD1NF	SD1-L6*
5/16	1/4	SD2***	-	-
3/8	5/16	SD3***	SD3NF	SD3-L6*
7/16	3/8	SD4	-	-
1/2	7/16	SD5***	SD5NF	SD5-L6*
5/8	9/16	SD6	SD6NF	-
3/4	11/16	SD7***	SD7NF	-
3/4	11/16	-	SD7NF-3/8**	-
1	15/16	SD9	-	-

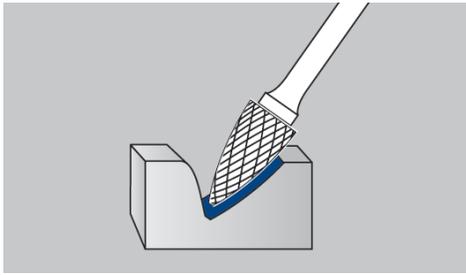
SE Oval Shape



Contouring

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
3/16	5/16	SE11	-	-
1/4	3/8	SE1***	-	SE1-L6*
3/8	5/8	SE3***	SE3NF	SE3-L6*
1/2	7/8	SE5***	SE5NF	SE5-L6*
5/8	1	SE6***	SE6NF	-
3/4	1	SE7	SE7NF	-
3/4	1	-	SE7NF-3/8**	-

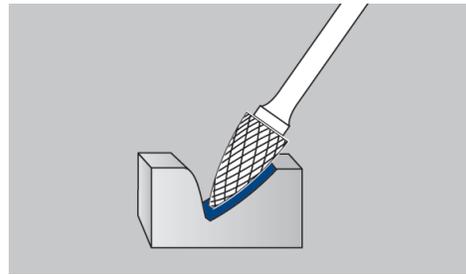
SF Tree Shape Radius End



Work On Narrow Contours

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/8	1/2	SF11	-	-
1/4	3/4	SF1***	SF1NF	-
1/4	1/2	-	-	SF1-L6*
3/8	3/4	SF3***	SF3-NF	SF3-L6*
7/16	1	SF4	-	-
1/2	3/4	SF13	-	-
1/2	1	SF5***	SF5-NF	SF5-L6*
5/8	1	SF6	SF6-NF	-
3/4	1	SF7	-	-
3/4	1-1/4	SF14	SF14-NF	-
3/4	1-1/4	-	SF14NF-3/8**	-
3/4	1-1/2	SF15	-	-

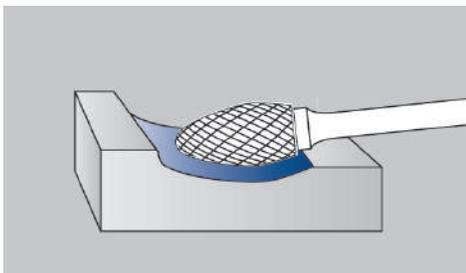
SG Tree Shape



Narrow Contours / Milling

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/4	5/8	SG1***	-	-
1/4	1/2	-	-	SG1-L6*
5/16	3/4	SG2	-	-
3/8	3/4	SG3***	-	SG3-L6*
1/2	3/4	SG13***	-	-
1/2	1	SG5***	-	SG5-L6*
5/8	1	SG6	-	-
3/4	1	SG7	-	-
3/4	1-1/2	SG15	-	-

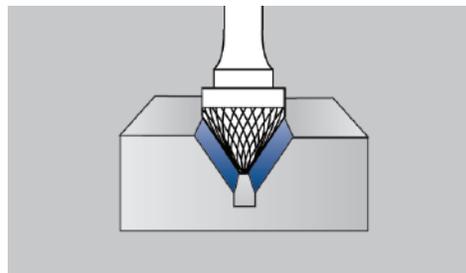
SH Flame Shape



Contouring

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/4	5/8	SH1***	-	-
5/16	3/4	SH2	-	SH2-L6
1/2	1-1/4	SH5***	-	SH5-L6
5/8	1-7/16	SH6	-	-
3/4	1-5/8	SH7***	-	-

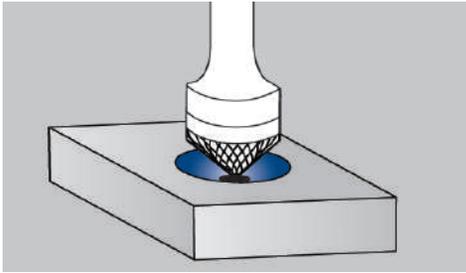
SJ 60° Cone Shape



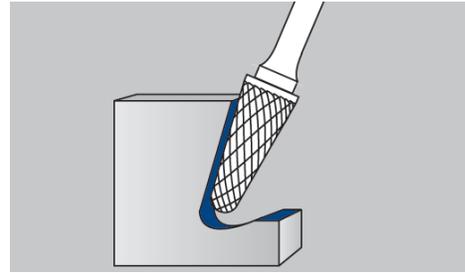
Acute Angle Machining / Countersinking

Cutter Dia (in)	Length Of Cut (in)	Double Cut
1/4	3/16	SJ1
3/8	5/16	SJ3
1/2	7/16	SJ5
5/8	9/16	SJ6
3/4	11/16	SJ7
1	15/16	SJ9

SK 90° Cone Shape



SL 14° Taper Radius End



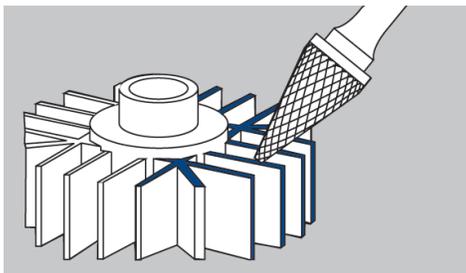
Acute Angle Machining / Countersinking

Cutter Dia (in)	Length Of Cut (in)	Double Cut
1/4	1/8	SK1
3/8	3/16	SK3
1/2	1/4	SK5
5/8	5/16	SK6
3/4	3/8	SK7
1	1/2	SK9

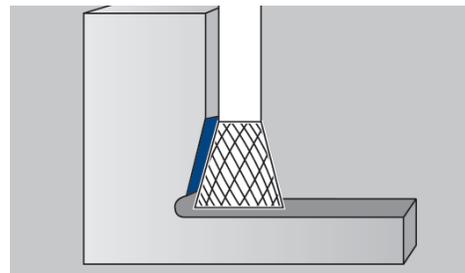
Narrow Contours / Surface Machining

Cutter Dia (in)	Length Of Cut (in)	Double Cut	Non Ferrous	Long Series
1/4	5/8	SL1***	-	SL1-L6
5/16	7/8	SL2	-	-
3/8	1-1/16	SL3***	SL3NF	SL3-L6
1/2	1-1/8	SL4***	SL4NF	SL4-L6
5/8	1-3/16	SL5	SL5NF	-
5/8	1-5/16	SL6	SL6NF	-
3/4	1-1/2	SL7	SL7NF	-
3/4	1-1/2	-	SL7NF-3/8	-

SM Cone Shape



SN Inverted Cone Shape



Narrow Contours / Surface Machining

Cutter Dia (in)	Length Of Cut (in)	Included Angle	Double Cut
1/4	1/2	22°	SM1
1/4	3/4	14°	SM2***
1/4	1	10°	SM3***
3/8	5/8	28°	SM4**
1/2	7/8	28°	SM5***
5/8	1	31°	SM6

Edge Machining From Rear

Cutter Dia (in)	Length Of Cut (in)	Included Angle	Double Cut
1/4	5/16	10°	SN1***
3/8	3/8	13°	SN2
1/2	1/2	28°	SN4***
5/8	3/4	18°	SN6
3/4	5/8	30°	SN7

* 6" Overall Length

** 3/8" Shank

*** Available Without Titanium Nitride Coating.
Specify U (Uncoated) When Ordering
Example USA1. Burs Are TiN Coated Unless Specified

Miniature Carbide Burs



Style	Cutter Dia (in)	Length of Cut (in)	Double Cut
SA	1/16	1/4	SA41
	3/32	7/16	SA42
	1/8	9/16	SA43
	1/4	1/2	SA51
SB	1/8	9/16	SB-43 End Cut Only
	1/8	Double Ended	SB-43 End Cut Only
	1/4	3/16	SB51
SC	3/32	7/16	SC41
	1/8	9/16	SC42
	1/4	1/2	SC51
SD	3/32	3/32	SD41
	1/8	1/8	SD42
	1/4	7/32	SD51
SE	1/8	7/32	SE41
	1/4	3/8	SE51
SF	1/8	1/4	SF41
	1/8	1/2	SF42
	1/4	1/2	SF51
SG	1/8	1/4	SG41
	1/8	5/16	SG42
	1/8	3/8	SG43
	1/8	1/2	SG44
	1/4	1/2	SG51
SH	1/8	1/4	SH41
SJ	-	-	-
	1/8	3/32	SJ42
SK	-	-	-
	1/8	1/16	SK42
SL	1/8	3/8	SL41
	1/4	1/2	SL42
SM	1/8	11/32	SM41
	1/8	7/16	SM42
	1/8	5/8	SM43
	1/4	1/2	SM51
SN	3/32	1/8	SN41
	1/8	3/16	SN42
	1/4	1/4	SN51

Carbide Burs



Radius | Inverted Shape For Cleaning Edges

Part #	Cutter Dia (in)	Length Of Cut (in)	Shape
SB5RA	1/2	1	Cylinder
SC5RA	1/2	1	Cylinder Radius End
SF5RA	1/2	1-1/4	Tree Shape



Power Tool: Rotary Die Grinder

Application: Round Off Sharp Edges In Titanium, Bronze, Stainless Steel, Cast Iron & Brass

Features: Unique Inverted Curves, Unique Guide System, Special Tooth Geometry, The Highest Quality Tungsten Carbide, CNC Machining

Advantage: Create Smooth Radius On Sharp Corners, Ease Of Control On Sharp Edges, Smooth Cutting Of Edges, Smooth Cutting Using All Faces, Rapid Material Removal



Carbide Bur Kits



Part #	Qty	Contents
BK8P	8 Piece	SA5, SC3, SC5, SD5, SF3, SF5, SG3, SL4
BK8P-1	8 Piece	SA1, SC1, SD1, SE1, SF1, SG1, SL1, SM1
BK8P-3	8 Piece	SA3, SC3, SD3, SE3, SF3, SG3, SL3, SM4
BK8P-5	8 Piece	SA5, SC5, SD5, SE5, SF5, SG5, SL4, SM5
BK8P-RE	8 Piece	SA3, SA5, SC1, SC3, SD1, SD3, SF3, SF5
US-BK8P	8 Piece	SA5, SC3, SC5, SD5, SF3, SF5, SG3, SL4 (Uncoated)

Application: For Professionals Who Value The Convenience Of Having Sets With Many Shapes & Sizes

Features: Cases Protect Tools & Keep Tools Organized

Industries: Engineered For Professional Use - Metalworking, MRO, Automotive, Mechanical, Manufacturing



Fiberglass Routers



Series FGR | Solid Carbide

Part #	Cutter Dia (in)	Shank Dia (in)	Flute Length (in)	Overall Length (in)
FGR-1	1/16	1/8	3/16	1-1/2
FGR-1-1	3/32	1/8	3/8	1-1/2
FGR-2	1/8	1/8	1/2	1-1/2
FGR-3	3/16	3/16	5/8	2
FGR-4	3/16	1/4	5/8	2
FGR-5	1/4	1/4	3/4	2
FGR-6	1/4	1/4	3/4	2-1/2
FGR-6-1	1/4	1/4	1	3
FGR-7	5/16	5/16	1	2-1/2
FGR-8	3/8	3/8	1	2-1/2
FGR-9	1/2	1/2	1	3

Specify FGR-A (No End Cut), FGR-B (Bur End), FGR-C (End Mill Cut) or FGR-D (Drill End) When Ordering.

Power Tool: Rotary Die Grinder

Application: Shape, Cut, Or Remove Excess Material. Fiberglass, Plastics, & Other Non-Metallic Materials

Features: Sharp - Double Cut Flutes

Advantage: Ideal For Production Of Fiberglass Circuit Boards In Boating, Aerospace, & RV Industries



Turning Tools & Tool Bits

Series AR - Straight Turning Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
AR4-370	AR4-883	1/4	1/4	2
AR5-370	AR5-883	5/16	5/16	2-1/4
AR6-370	AR6-883	3/8	3/8	2-1/2
AR7-370	AR7-883	7/16	7/16	3
AR8-370	AR8-883	1/2	1/2	3-1/2
AR10-370	AR10-883	5/8	5/8	4
AR12-370	-	3/4	3/4	4-1/2
AR16-370	-	1	1	7
AR20-370	AR20-883	1-1/4	1-1/4	8
AR44-370	AR44-883	1/2	1/2	9



For Turning To Square Shoulder, Right Hand

Series AL - Straight Turning Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
AL4-370	AL4-883	1/4	1/4	2
AL5-370	AL5-883	5/16	5/16	2-1/4
AL6-370	AL6-883	3/8	3/8	2-1/2
-	AL7-883	7/16	7/16	3
AL8-370	AL8-883	1/2	1/2	3-1/2
AL10-370	-	5/8	5/8	4
AL12-370	AL12-883	3/4	3/4	4-1/2
AL16-370	-	1	1	7
AL20-370	-	1-1/4	1-1/4	8



For Facing To Square Shoulder, Left Hand

Series BR - Lead Angle Turning Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
-	BR4-883	1/4	1/4	2
BR5-370	BR5-883	5/16	5/16	2-1/4
BR6-370	BR6-883	3/8	3/8	2-1/2
BR8-370	BR8-883	1/2	1/2	3-1/2
BR10-370	BR10-883	5/8	5/8	4
BR12-370	-	3/4	3/4	4-1/2
-	BR16-883	1	1	7
BR20-370	BR20-883	1-1/4	1-1/4	8



For Rough Turning Where Square Shoulder Is Not Required, Right Hand

Series BL - Lead Angle Turning Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
-	BL4-883	1/4	1/4	2
BL5-370	BL5-883	5/16	5/16	2-1/4
BL6-370	BL6-883	3/8	3/8	2-1/2
-	BL7-883	7/16	7/16	3
BL8-370	BL8-883	1/2	1/2	3-1/2
BL10-370	-	5/8	5/8	4
BL12-370	-	3/4	3/4	4-1/2
BL20-370	-	1-1/4	1-1/4	8



For Rough Turning Where Square Shoulder Is Not Required, Left Hand

Series 883 Is Equivalent to C2 Grade Carbide - For Non-Ferrous Materials Like Brass, Cast Iron, Aluminum
 Series 370 Is Equivalent to C6 Grade Carbide - For Use On Steel

Series C - Square Nose Tool

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
C4-370	C4-883	1/4	1/4	2
C5-370	C5-883	5/16	5/16	2-1/4
C6-370	C6-883	3/8	3/8	2-1/2
C8-370	C8-883	1/2	1/2	3-1/2
C10-370	C10-883	5/8	5/8	4
C12-370	C12-883	3/4	3/4	4-1/2
-	C16-883	1	1	7
C20-370	C20-883	1-1/4	1-1/4	8
C44-370	C44-883	1/2	1/2	9



For Chamfering

Series D - Pointed Nose Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
D4-370	D4-883	1/4	1/4	2
D5-370	-	5/16	5/16	2-1/4
D6-370	D6-883	3/8	3/8	2-1/2
D8-370	D8-883	1/2	1/2	3-1/2
D10-370	-	5/8	5/8	4
D12-370	D12-883	3/4	3/4	4-1/2
D16-370	-	1	1	7



For Undercutting & Chamfering

Series E - Threading Tools

Part #	Part #	Shank Width (in)	Shank Height (in)	Shank Length (in)
E5-370	-	5/16	5/16	2-1/4
E6-370	-	3/8	3/8	2-1/2
E8-370	E8-883	1/2	1/2	3-1/2
E10-370	-	5/8	5/8	4
E12-370	E12-883	3/4	3/4	4-1/2



For Universal Threading, 30° Chamfering, Notching, & Undercutting

Series 515 - Square Tool Bits - HSS

Part #	Size (in)	Overall Length (in)
515-1/8	1/8	2-1/2
515-3/16	3/16	2-1/2
515-1/4	1/4	2-1/2
515-5/16	5/16	2-1/2
515-3/8	3/8	3
515-7/16	7/16	3
515-1/2	1/2	4
515-5/8	5/8	4-1/2
515-3/4	3/4	5
515-7/8	7/8	6
515-1	1	7
515-1-1/4	1-1/4	8

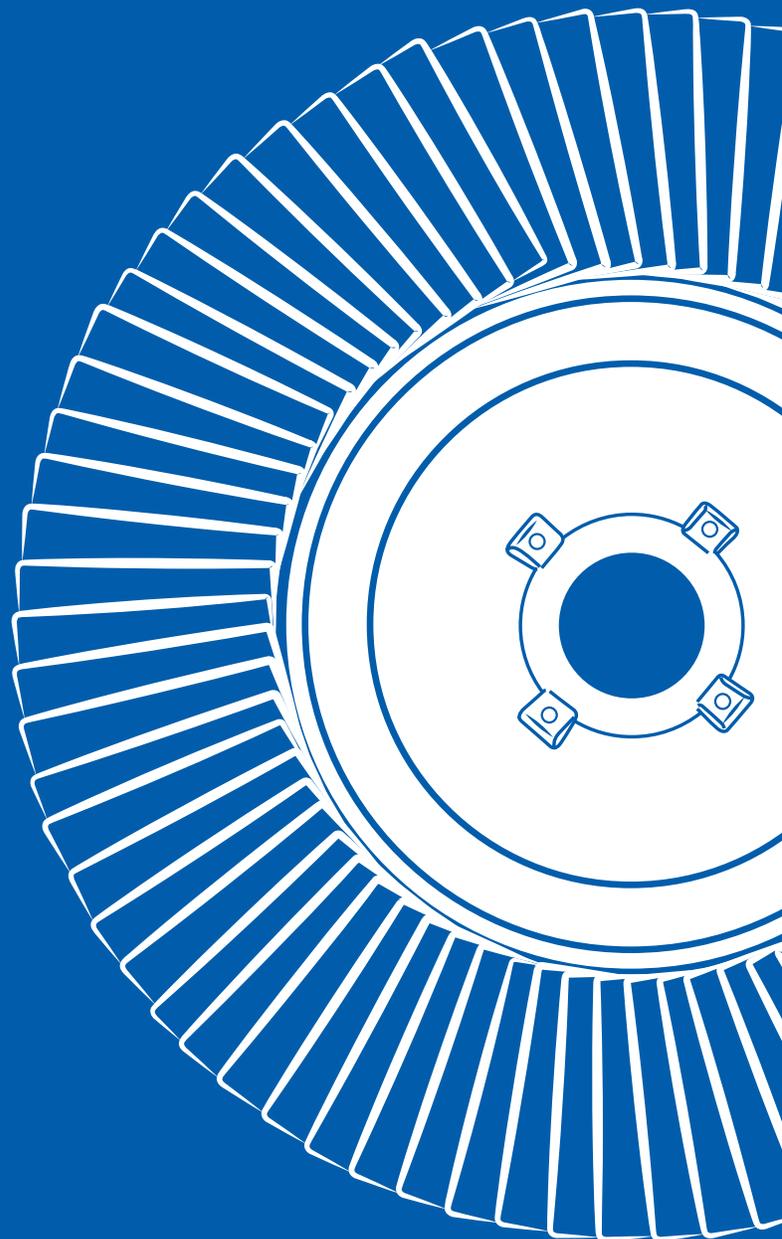


For Machining Of Hard Materials. Long Tool Life & High Performance. 10° Bevel.

FLAP DISCS & WHEELS

a better way to grind & finish.

Flap Discs Are A Great Alternative To Grinding Wheels Due To Faster Stock Removal, Smoother Finish & Ease Of Use. We Are Particularly Fond Of Our High Density Discs That Have 40% More Cloth Than Standard Discs.



Flap Discs

Ceramic | For High Performance Alloys, High Carbon Steel, Stainless Steel

4-1/2" x 7/8" - Type 29



Part #	Max RPM	Grit
349036	13,300	36
349040	13,300	40
349060	13,300	60
349080	13,300	80
349120	13,300	120

Pack QTY = 10, Case QTY = 50

4-1/2" x 5/8" - 11 - Type 29



Part #	Max RPM	Grit
349H036	13,300	36
349H040	13,300	40
349H060	13,300	60
349H080	13,300	80
349H120	13,300	120

Pack QTY = 10, Case QTY = 50

4-1/2" x 7/8" - Type 27



Part #	Max RPM	Grit
269036	13,300	36
269040	13,300	40
269060	13,300	60
269080	13,300	80
269120	13,300	120

Pack QTY = 10, Case QTY = 100

4-1/2" x 5/8" - 11 - Type 27



Part #	Max RPM	Grit
269H036	13,300	36
269H040	13,300	40
269H060	13,300	60
269H080	13,300	80
269H120	13,300	120

Pack QTY = 10, Case QTY = 50

Power Tool: Angle Grinder

Application: Grind, Clean, Polish, & Finish Stainless Steel, High Carbon Steel, Non-Ferrous Metals, & Heat Sensitive Materials

Type 29: Conical Shaped Ideal For Contour & Edgework, More Aggressive Cut, Use At 15-25° Angle For Best Results

Type 27: Flat Shaped For Flat Surfaces, Ideal For Smooth Finishing, Use At 0-15° Angle For Best Results

Features: Ceramic Grain With Top Size Coating, Self Sharpening, Fiberglass Backing, Poly-Cotton Cloth

Advantage: Cool - Fast Cutting, Longer Life & Minimal Loading, Holds Up To the Toughest Applications, Does Not Stain Or Burn Material, Operators Will Experience Approximately 50% Longer Life Than Zirconia Discs

7" x 7/8" - Type 27



Part #	Max RPM	Grit
261040	13,300	40
261060	13,300	60
261080	13,300	80

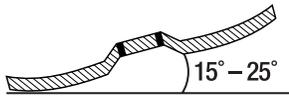
Pack QTY = 10, Case QTY = 50

7" x 5/8" - 11 - Type 27



Part #	Max RPM	Grit
261H040	13,300	40
261H060	13,300	60
261H080	13,300	80

Pack QTY = 10



Type 29: Conical Shaped Flaps Are Angled At 10°, Which Is Ideal For Contour & Edge Work. Angled Flaps Provide Greater Surface Contact For A More Aggressive Cut. Most Efficient When Used Between 15° To 25° Angle.



Type 27: Flat Shaped For Working On Flat Grinding Surfaces. Most Efficient When Used Between 0° To 15° Angle. Best Choice For Smooth Finishing.



Flap Discs

Zirconia | For Ferrous Metals, Stainless Steel | Type 29

4" x 5/8" - Type 29



Part # High Density	Max RPM	Grit
337040	15,300	40
337060	15,300	60
337080	15,300	80

Pack QTY = 10, Case QTY = 100

4-1/2" x 7/8" - Type 29



Part # High Density	Part # Standard	Max RPM	Grit
332024	-	13,300	24
332036	342036	13,300	36
332040	342040	13,300	40
332060	342060	13,300	60
332080	342080	13,300	80
332120	342120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 100

4-1/2" x 5/8" - 11 - Type 29



Part # High Density	Part # Standard	Max RPM	Grit
332H024	-	13,300	24
332H036	342H036	13,300	36
332H040	342H040	13,300	40
332H060	342H060	13,300	60
332H080	342H080	13,300	80
332H120	342H120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 50

5" x 7/8" - Type 29



Part # High Density	Max RPM	Grit
336036	12,200	36
336040	12,200	40
336060	12,200	60
336080	12,200	80
336120	12,200	120

Pack QTY = 10, Case QTY = 50

5" x 5/8" - 11 - Type 29



Part # High Density	Max RPM	Grit
336H036	12,200	36
336H040	12,200	40
336H060	12,200	60
336H080	12,200	80
336H120	12,200	120

Pack QTY = 10, Case QTY = 50

Power Tool: Angle Grinder

Application: Grind, Clean, Polish, & Finish Stainless Steel, Ferrous, & Non-Ferrous Metals, Ideal For Contour & Edge Work, Best Used At A 15-25° Angle

Type 29: Conical Shaped Ideal For Contour & Edgework, More Aggressive Cut, Use At 15-25° Angle For Best Results

Features: Does The Job Of Both A Grinding Wheel & Resin Fibre Disc, High Density Wheels Have 40% More Cloth Than Standard Discs

Advantage: Sharp & Long Lasting, Saves Time & Money, Longer Life, Softer Grind

6" x 7/8" - Type 29



Part # High Density	Max RPM	Grit
339040	10,200	40
339060	10,200	60
339080	10,200	80

Pack QTY = 10, Case QTY = 100

6" x 5/8" - 11 - Type 29



Part # High Density	Max RPM	Grit
339H040	10,200	40
339H060	10,200	60
339H080	10,200	80

Pack QTY = 10



7" x 7/8" - Type 29



Part # High Density	Part # Standard	Max RPM	Grit
333040	343040	8,600	40
333060	343060	8,600	60
333080	343080	8,600	80

Pack QTY = 10, Case QTY = 50

7" x 5/8" - 11 - Type 29



Part # High Density	Part # Standard	Max RPM	Grit
333H040	343H040	8,600	40
333H060	343H060	8,600	60
333H080	343H080	8,600	80

Pack QTY = 10



High Density: 40% More Cloth Than Our Standard Discs. Provides Longer Life & A Softer Grind. Thicker Design Conforms Better To Irregular Shapes.



Standard Density: General Purpose Discs Intended For Applications That Do Not Require Extensive Material Removal.



Flap Discs

Zirconia | For Ferrous Metals, Stainless Steel | Type 27

4-1/2" x 7/8" - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
262024	272024	13,300	24
262036	272036	13,300	36
262040	272040	13,300	40
262060	272060	13,300	60
262080	272080	13,300	80
262120	272120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 100

4-1/2" x 5/8" - 11 - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
262H024	272H024	13,300	24
262H036	272H036	13,300	36
262H040	272H040	13,300	40
262H060	272H060	13,300	60
262H080	272H080	13,300	80
262H120	272H120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 50

5" x 7/8" - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
266036	276036	12,200	36
266040	276040	12,200	40
266060	276060	12,200	60
266080	276080	12,200	80
-	276120	12,200	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 100

5" x 5/8" - 11 - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
266H036	276H036	13,300	36
266H040	276H040	13,300	40
266H060	276H060	13,300	60
266H080	276H080	13,300	80
-	276H120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 50

Power Tool: Angle Grinder

Application: Grind, Clean, Polish, & Finish Stainless Steel, Ferrous, & Non-Ferrous Metals, Ideal For Contour & Edge Work, Best Used At A 0-15° Angle

Type 27: Flat Shaped For Flat Surfaces, Ideal For Smooth Finishing, Use At 0-15° Angle For Best Results

Features: Does The Job Of Both A Grinding Wheel & Resin Fibre Disc, High Density Wheels Have 40% More Cloth Than Standard Discs

Advantage: Sharp & Long Lasting, Saves Time & Money, Longer Life, Softer Grind



6" x 7/8" - Type 27



Part # High Density	Max RPM	Grit
268040	10,200	40
268060	10,200	60
268080	10,200	80

Pack QTY = 10, Case QTY = 100

6" x 5/8" - 11 - Type 27



Part # High Density	Max RPM	Grit
268H040	10,200	40
268H060	10,200	60
268H080	10,200	80

Pack QTY = 10

7" x 7/8" - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
263036	-	8,600	36
263040	273040	8,600	40
263060	273060	8,600	60
263080	273080	8,600	80

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 50

7" x 5/8" - 11 - Type 27



Part # High Density	Part # Standard	Max RPM	Grit
263H036	-	8,600	36
263H040	273H040	8,600	40
263H060	273H060	8,600	60
263H080	273H080	8,600	80

High Density: Pack QTY = 10
Standard: Pack QTY = 10



Trimable Flap Discs



Ceramic | For High Performance Alloys, High Carbon Steel, Stainless Steel

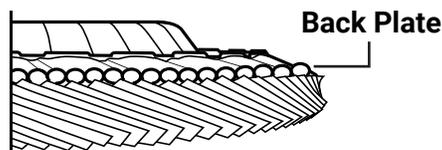
4-1/2" x 5/8" - 11 - Type 29



Part #	Max RPM	Grit
349T036	13,300	36
349T040	13,300	40
349T060	13,300	60
349T080	13,300	80
349T120	13,300	120



Pack QTY = 10, Case QTY = 50



Backing Plate Material: All Flap Discs Are Constructed From Abrasive Flaps Which Are Adhered To A Rigid Backing Plate This Backing Plate Provides Stability During Operation. Fiberglass Backing Plate Is Light Weight, Strong And Flexible – Absorbing Vibration. Plastic Backing Plate Is Trimable, Extending The Life Of The Flap Disc.

Power Tool: Angle Grinder

Application: Grind, Clean, Polish, & Finish Stainless Steel, High Carbon Steel, Non-Ferrous Metals, & Heat Sensitive Materials

Type 29: Conical Shaped Ideal For Contour & Edgework, More Aggressive Cut, Use At 15-25° Angle For Best Results

Features: Built In 5/8-11 Plastic Hub, Ceramic Grain With Top Size Coating, Self Sharpening, Trimable Plastic Backing, Poly-Cotton Cloth

Advantage: Extends Disc Life, Is Lightweight & Cost Effective, Cool - Fast Cutting, Longer Life & Minimal Loading, Holds Up To the Toughest Applications, Does Not Stain Or Burn Material, Operators Will Experience Approximately 50% Longer Life Than Zirconia Discs



Trimmable Flap Discs



Zirconia | For Ferrous Metals, Stainless Steel

4-1/2" x 5/8" - 11 - Type 29

Part # High Density	Part # Standard	Max RPM	Grit
332T036	342T036	13,300	36
332T040	342T040	13,300	40
332T060	342T060	13,300	60
332T080	342T080	13,300	80
332T120	342T120	13,300	120

High Density: Pack QTY = 10, Case QTY = 50
Standard: Pack QTY = 10, Case QTY = 50

4-1/2" x 5/8" - 11 - Type 27

Part # High Density	Max RPM	Grit
262T036	13,300	36
262T040	13,300	40
262T060	13,300	60
262T080	13,300	80
262T120	13,300	120

Pack QTY = 10, Case QTY = 50



Power Tool: Angle Grinder

Application: Grind, Clean, Polish, & Finish Stainless Steel, Ferrous, & Non-Ferrous Metals, Ideal For Contour & Edge Work, Best Used At A 15-25° Angle

Type 29: Conical Shaped Ideal For Contour & Edgework, More Aggressive Cut, Use At 15-25° Angle For Best Results

Type 27: Flat Shaped For Flat Surfaces, Ideal For Smooth Finishing, Use At 0-15° Angle For Best Results

Features: Built In 5/8-11 Plastic Hub, Does The Job Of Both A Grinding Wheel & Resin Fibre Disc, Trimmable Plastic Backing, Strong Poly-Cotton Cloth

Advantage: Grain Is Sharp & Long Lasting, Saves Time & Money, Longer Life, Softer Grind, Lightweight & Economical, Strong Cloth Supports The Aggressive Material



Flap Discs



Zirconia | For Ferrous Metals | Economical Series

4-1/2" x 7/8" - Type 29



Part #	Max RPM	Grit
338040	13,300	40
338060	13,300	60
338080	13,300	80
338120	13,300	120

Pack QTY = 10, Case QTY = 100

4-1/2" x 5/8" - 11 - Type 29



Part #	Max RPM	Grit
338H040	13,300	40
338H060	13,300	60
338H080	13,300	80
338H120	13,300	120

Pack QTY = 10, Case QTY = 50



Power Tool: Angle Grinder

Application: Ferrous Metals

Type 29: Conical Shaped Ideal For Contour & Edgework, More Aggressive Cut, Use At 15-25° Angle For Best Results

Flap Wheels



Mounted | Aluminum Oxide | For Metal, Wood, Rubber, Glass

3/4" x 3/4" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
359060	30,000	60	20	200
359080	30,000	80	20	200
359120	30,000	120	20	200
359180	30,000	180	20	200
259240	30,000	240	20	200

1-1/2" x 1/2" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
361060	30,000	60	20	100
361080	30,000	80	20	100
361120	30,000	120	20	100
361180	30,000	180	20	100
361240	30,000	240	20	100

2" x 1" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
363040	25,000	40	10	100
363060	25,000	60	10	100
363080	25,000	80	10	100
363120	25,000	120	10	100
363180	25,000	180	10	100
363240	25,000	240	10	100

3" x 1" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
365040	23,000	40	10	100
365060	23,000	60	10	100
365080	23,000	80	10	100
365120	23,000	120	10	100
365180	23,000	180	10	100
365240	23,000	240	10	100

1" x 1" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
360040	30,000	40	20	100
360060	30,000	60	20	100
360080	30,000	80	20	100
360120	30,000	120	20	100
360180	30,000	180	20	100
360240	30,000	240	20	100

1-1/2" x 1" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
362040	30,000	40	20	100
362060	30,000	60	20	100
362080	30,000	80	20	100
362120	30,000	120	20	100
362180	30,000	180	20	100
362240	30,000	240	20	100

2-1/2" x 1" x 1/4" Shank

Part #	Max RPM	Grit	Pack	Case
364060	25,000	60	10	100
364080	25,000	80	10	100
364120	25,000	120	10	100
364180	25,000	180	10	100
364240	25,000	240	10	100



Power Tool: Power Drill, Die Grinder

Application: Metal, Wood, Rubber, Glass, Plastic, Fibreglass - Grind, Clean, Polish, & Finish On Contoured & Flat Surfaces

Features: Mounted Style Ideal For Working In Small, Difficult To Reach Places. Flexible To Grind, Clean, Polish & Finish On Contoured & Flat Surfaces. Aluminum Oxide Grain Is Heat & Moisture Resistant. Resin On Resin Bond For Excellent Durability. Heavy X-Weight Cloth Backing.



Flap Wheels



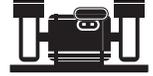
Center Hole | Aluminum Oxide | For Metal, Wood, Rubber, Glass

6" x 1" x 1"

Part #	Max RPM	Grit
368060	6,000	60
368080	6,000	80
368100	6,000	100
368120	6,000	120

6" x 2" x 1"

Part #	Max RPM	Grit
370060	6,000	60
370080	6,000	80
370120	6,000	120



All Sizes: Pack QTY = 1, Case QTY = 10

Power Tool: Bench Grinder

Application: Metal, Wood, Rubber, Glass, Plastic, Fibreglass - Grind, Clean, Polish, & Finish On Contoured & Flat Surfaces

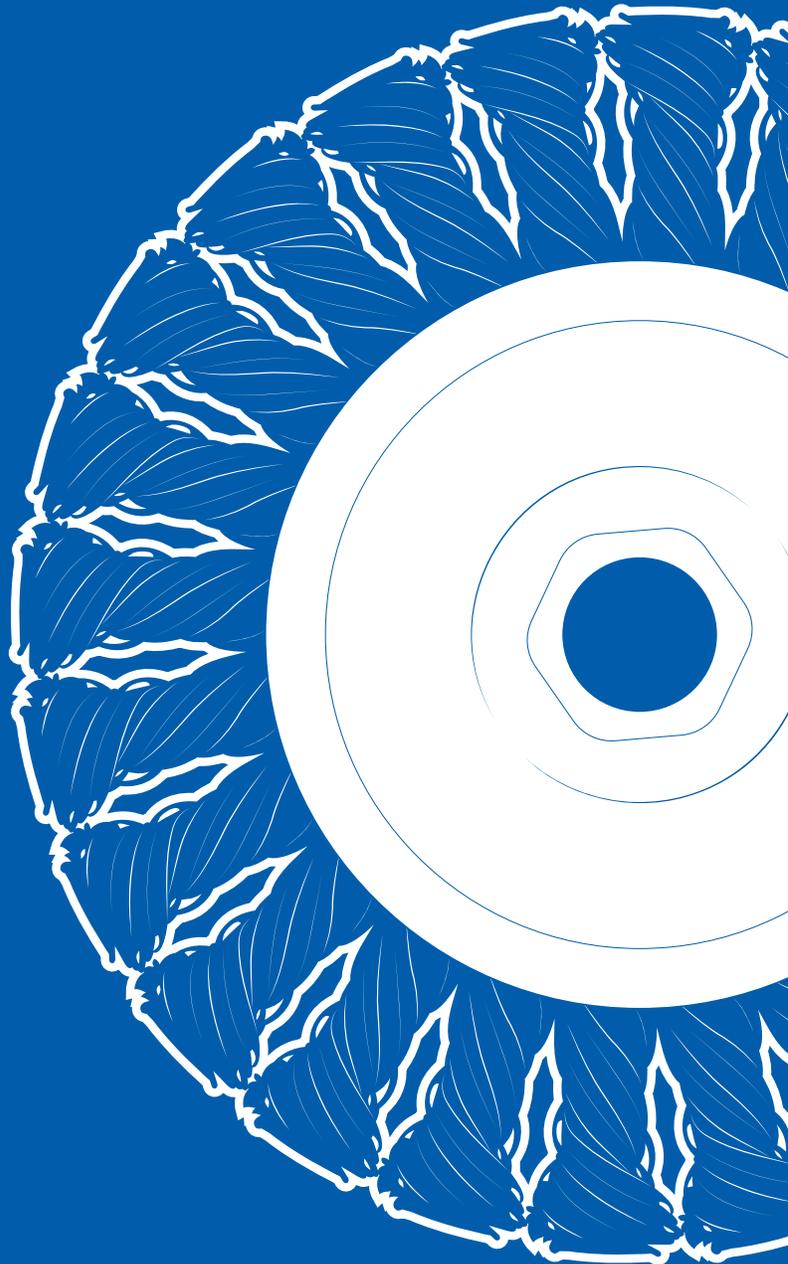
Features: Aluminum Oxide Grain Is Heat & Moisture Resistant. Resin On Resin Bond For Excellent Durability. Heavy X-Weight Cloth Backing.



WIRE WHEELS & BRUSHES

**for fabrication
& manufacturing.**

Our Wire Wheels & Brushes Are Used At Top Auto Manufacturing Facilities In North America. These Wheels Experience Rigorous Testing & Need To Keep Up With High Production Operations.



Knot Wire Wheels



Premium For Tough Applications

Part #	Size	Wire Type	Max RPM	Pack	Case
186511B	4" x 1/2" x 5/8" - 11	.020 Tempered Steel	20,000	10	60



Packed In Individual Box

Power Tool: Angle Grinder

Application: Remove Rust, Paint, Surface Film. Use For Heavy Deburring

Features: High Tensile Strength Wires, Oil Tempered Steel Wire

Advantage: Improved Abrasion Resistance, Hardness, & Cutting Duty Of Wire Wheel. Long Life & Less Breakage, Zinc Plated Face Plates Are Rust Resistant For Long Life & Improved Safety

Note: Oil Tempered Steel - Increased Strength & Extended Tool Life



Knot Wire Wheels



General Purpose | Retail Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
186510	4" x 1/2" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Carbon Steel	20,000	1	6
186510B*	4" x 1/2" x 5/8" - 11	.020 Carbon Steel	20,000	10	-
186520	4" x 1/2" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Stainless Steel	20,000	1	6
186520B*	4" x 1/2" x 5/8" - 11	.020 Stainless Steel	20,000	10	-
186540	5" x 1/2" x 5/8" - 11	.020 Carbon Steel	12,500	1	6
186530	6" x 5/8" x 5/8" - 11	.020 Carbon Steel	9,000	1	6



* Packed In Individual Box

Power Tool: Angle Grinder

Application: Remove Rust, Paint, Surface Film & For Heavy Deburring. Knot Wire Has Straight Wire Filaments That Are Twisted As A Single Unit Like A Piece Of Cable. Less Flexibility, More Aggressive.

Features: Knot Style Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals
Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Stringer Bead Wire Wheels



Premium For Tough Applications

Part #	Size	Wire Type	Max RPM	Pack	Case
186011B	4" x 3/16" x 5/8" - 11	.020 Tempered Steel	20,000	10	60
186081B	4-1/2" x 3/16" x 5/8" - 11	.020 Tempered Steel	12,500	10	60
186051B	5" x 3/16" x 5/8" - 11	.020 Tempered Steel	12,500	10	60
186031B	6" x 3/16" x 5/8" - 11	.020 Tempered Steel	12,500	5	30
186071B	7" x 3/16" x 5/8" - 11	.020 Tempered Steel	9,000	5	20



Packed In Individual Box

Power Tool: Angle Grinder

Application: Very Aggressive For Tough Jobs Like Cleaning Welds

Features: Stringer Bead Wire, Zinc Plated Faceplates

Advantage: Improved Abrasion Resistance, Hardness, & Cutting Duty Of Wire Wheel. Long Life & Less Breakage, Zinc Plated Face Plates Are Rust Resistant For Long Life & Improved Safety

Note: Oil Tempered Steel - Increased Strength & Extended Tool Life



Stringer Bead Wire Wheels



General Purpose | Retail Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
186010	4" x 3/16" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Carbon Steel	20,000	1	6
186020	4" x 3/16" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Stainless Steel	20,000	1	6
186050	5" x 5/16" x 5/8" - 11	.020 Carbon Steel	12,500	1	6
186060	5" x 5/16" x 5/8" - 11	.020 Stainless Steel	12,500	1	6
186030	6" x 3/16" x 5/8" - 11	.020 Carbon Steel	12,500	1	6
186040	6" x 3/16" x 5/8" - 11	.020 Stainless Steel	12,500	1	6
186010B*	4" x 3/16" x 5/8" - 11	.020 Carbon Steel	20,000	10	60
186030B*	6" x 3/16" x 5/8" - 11	.020 Carbon Steel	12,500	10	30
186040B*	6" x 3/16" x 5/8" - 11	.020 Stainless Steel	12,500	10	30
186070B*	7" x 3/16" x 5/8" - 11	.020 Carbon Steel	9,000	10	20



*Packed In Individual Box

Power Tool: Angle Grinder

Application: Very Aggressive For Tough Jobs Like Cleaning Welds

Features: Stringer Bead Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals

Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Knot Cup Brushes



Premium For Tough Applications

Part #	Size	Wire Type	Max RPM	Pack	Case
189011B**	2-3/4" x 5/8" - 11	.020 Tempered Steel	14,000	10	60
189031B**	4" x 5/8" - 11	.020 Tempered Steel	9,000	10	30
189041B*	6" x 5/18" - 11	.020 Tempered Steel	6,500	6	24

*Bulk Packaging

**Packed In Individual Box

Power Tool: Angle Grinder

Application: Aggressive Brushing In Tough Applications, Ideal For Rust & Scale Removal

Features: High Tensile Strength Wires, Oil Tempered Steel Wire, Zinc Plated Cups

Advantage: Improved Abrasion Resistance, Long Life & Less Breakage, Rust Resistant Zinc Cup

Note: Oil Tempered Steel - Increased Strength & Extended Tool Life



Knot Cup Brushes



General Purpose | Retail & Box Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
189010*	2-3/4" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Carbon Steel	14,000	1	6
189020*	2-3/4" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Stainless Steel	14,000	1	6
189030*	4" x 5/8" - 11	.020 Carbon Steel	9,000	1	6
189060*	4" x 5/8" - 11	.020 Stainless Steel	9,000	1	6
189080*	5" x 5/8" - 11	.020 Carbon Steel	6,500	1	6
189040*	6" x 5/8" - 11	.020 Carbon Steel	6,500	1	6
189050*	6" x 5/8" - 11 Heavy-Duty	.020 Carbon Steel	6,500	1	6
189010B**	2-3/4" x 5/8" - 11	.020 Carbon Steel	14,000	10	30
189014B**	2-3/4" x M14 x 2.0	.020 Carbon Steel	14,000	10	60
189070B**	2-3/4" x 5/8"	.020 Carbon Steel	14,000	10	60
189090B**	2-3/4" x 5/8" - 11 or M14 x 2.0	.020 Carbon Steel	14,000	10	60
189030B**	4" x 5/8" - 11	.020 Carbon Steel	9,000	10	30
189080B**	5" x 5/8" - 11	.020 Carbon Steel	6,500	10	20

*Retail Packaging

**Packed In Individual Box

Power Tool: Angle Grinder

Application: For Aggressive Brushing, Ideal For Rust & Scale Removal

Note: Carbon Steel Wire - General Purpose - Ferrous Metals

Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Crimped Cup Brushes



Premium For Tough Applications

Part #	Size	Wire Type	Max RPM	Pack	Case
188011B	2-3/4" x 5/8" - 11	.020 Tempered Steel	14,000	10	60



Packed In Individual Box

Power Tool: Angle Grinder

Application: Fine Finish On Flat Surfaces, Rust & Scale Removal

Features: Crimped Wire, High Tensile Strength Wires, Oil Tempered Steel Wire, Zinc Plated Cup

Advantage: Long Life & Less Breakage, Zinc Plated Cup Is Rust Resistant, Works Better Than Wheels For A Fine Finish On Flat Surfaces

Note: Oil Tempered Steel - Increased Strength & Extended Tool Life



Crimped Cup Brushes



General Purpose | Retail Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
188010	2-3/4" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Carbon Steel	12,500	1	6
188014B*	2-3/4" x M14 x 2.0	.020 Carbon Steel	12,500	10	-
188020	2-3/4" x 5/8" - 11, M10 x 1.25, M10 x 1.5	.020 Stainless Steel	12,500	1	6
188030	4" x 5/8" - 11	.014 Carbon Steel	9,000	1	6
188050	5" x 5/8" - 11	.020 Carbon Steel	6,500	1	6
188040	6" x 5/8" - 11	.014 Carbon Steel	6,500	1	6



*Packed In Individual Box

Power Tool: Angle Grinder

Application: Fine Finish On Flat Surfaces, Rust & Scale Removal

Features: Crimped Wire

Advantage: Works Better Than Wheels For A Fine Finish On Flat Surfaces

Note: Carbon Steel Wire - General Purpose - Ferrous Metals
Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Crimped Wire Wheels



General Purpose | Fine Finish | Retail Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
187010	4" x 1/2" x 5/8" - 11	.014 Carbon Steel	14,000	1	6



Power Tool: Angle Grinder

Application: Flexible For Light To Medium Jobs & Use On Irregular Surfaces

Features: Crimped Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals



Crimped Wire Wheels



Small Diameter | Fine Finish | Bulk Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
182010B	1-1/2" x 1/4" Shank	.008 Stainless Steel	20,000	20	-
182020*	2" x 1/4" Shank	.014 Carbon Steel	20,000	12	120
182020B	2" x 1/4" Shank	.014 Carbon Steel	20,000	20	-
182030B	2" x 1/4" Shank	.008 Stainless Steel	20,000	20	-
182040B	3" x 1/4" Shank	.014 Carbon Steel	20,000	20	-
182050B	3" x 1/4" Shank	.008 Stainless Steel	20,000	20	-
182850B	3" x 1/4" Shank - Non Magnetic	.008 Stainless Steel	20,000	20	-

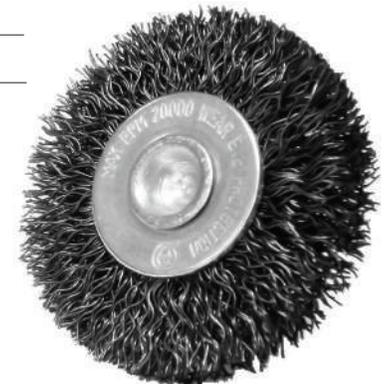


Packaged In 20 Piece Bulk Boxes

*Packed In Retail Packaging

Power Tool: Drills & Die Grinders

Application: Flexible For Light To Medium Jobs & For Use On Irregular Surfaces



Knot End Brushes



Bulk Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
181010B	3/4" x 1/4" Shank	.020 Carbon Steel	20,000	20	-
181020B	1" x 1/4" Shank	.020 Stainless Steel	20,000	20	-
181031B*	1-1/8" x 1/4" Shank	.014 Tempered Steel	20,000	10	200



*Premium quality for longer tool life

Power Tool: Drills & Die Grinders

Application: Aggressive Brushing For Cleaning Pipe Or Working In Recessed Areas. Offers Low To Medium Flexibility

Features: Knot Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals
Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Crimped End Brushes



General Purpose | Bulk Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
180010B	3/4" x 1/4" Shank	.008 Carbon Steel	20,000	20	-
180020B	1" x 1/4" Shank	.008 Carbon Steel	20,000	20	-
180030B	1" x 1/4" Shank	.012 Stainless Steel	20,000	20	-



Power Tool: Drills & Die Grinders

Application: General Purpose Applications For Cleaning Pipe Or Working In Recessed Areas.

Flexible For Light To Medium Duty Applications & Irregular Surfaces

Features: Crimped Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals
Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys



Crimped Cup Brushes



Small Diameter | For Drills & Die Grinders | Bulk Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
193020B	2" x 1/4" Hex Shank	.014 Carbon Steel	13,000	20	-
193220B	2" x 1/4" Hex Shank	.012 Stainless Steel	13,000	20	-
193120B	2" x 1/4" Hex Shank	.012 Brass Coated	13,000	20	-
193030B	3" x 1/4" Hex Shank	.014 Carbon Steel	10,000	20	-
193230B	3" x 1/4" Hex Shank	.012 Stainless Steel	4,500	20	-
193130B	3" x 1/4" Hex Shank	.012 Brass Coated	4,500	20	-



Power Tool: Power Drills, 1/4" Impact Drivers

Application: Flexible For Light To Medium Applications & For Use On Irregular Surfaces

Features: 1/4" Hex Shank, Crimped Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals
 Stainless Steel Wire - Prevents Contamination Or "After Rust" - Aluminum, Stainless, High Tensile Alloys
 Brass Coated Wire - For General Purpose Cleaning

Expansion Joint Wire Wheels



For Walk Behind Street Saws

Part #	Size	Wire Type	Max RPM	Pack	Case
185010	12" x 3/8" x 1" DPH	.035 Carbon Steel	5,000	3	12



3 Per Individual Box



Power Tool: Walk Behind Street Saws

Application: For Cleaning Joints Or Cracks In Asphalt & Concrete

Features: Expansion Joint Wire

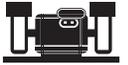
Note: Carbon Steel Wire - General Purpose - Ferrous Metals

Crimped Wire Wheels



For Bench Grinders

Part #	Size	Wire Type	Max RPM	Pack	Case
183010*	6" x 3/4" x 2", 1/2", 5/8"	.014 Carbon Steel	6,000	1	6
183020*	8" x 3/4" x 2", 1/2", 5/8"	.014 Carbon Steel	4,500	1	6
183040B**	10" x 1" x 2", 1/2", 5/8"	.014 Carbon Steel	3,600	6	12
183050B**	12" x 1-3/4" x 2", 1/2", 5/8"	.014 Carbon Steel	3,600	6	-



*Retail Packaging

**Packed In Individual Box

Power Tool: Bench Grinders, Pedestal Grinders

Application: Flexible For Light To Medium Jobs & Use On Irregular Surfaces

Features: Crimped Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals

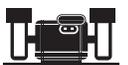


Knot Wire Wheels



For Bench Grinders | Retail Packaging

Part #	Size	Wire Type	Max RPM	Pack	Case
184010	6" x 1/2" x 1/2", 5/8"	.014 Carbon Steel	9,000	1	6
184020	8" x 5/8" x 1/2", 5/8"	.014 Carbon Steel	8,500	1	6



Power Tool: Bench Grinders, Pedestal Grinders

Application: Remove Rust, Paint, Surface Film & For Heavy Deburring. Knot Wire Has Straight Wire Filaments That Are Twisted As A Single Unit Like A Piece Of Cable. Less Flexibility, More Aggressive.

Features: Knot Style Wire

Note: Carbon Steel Wire - General Purpose - Ferrous Metals



Wire Wheel Adapters



Part #	Size	Pack	Case
190010	Converts 5/8" - 11 to M10 x 1.25	50	-
190020	Converts 5/8" - 11 to M10 x 1.5	50	-



Manual Brushes



Scratch Brushes

Part #	Size	Rows	Wire Type	Pack	Case
191100	10-1/4" Wooden Shoe Handle	4 x 16	Carbon Steel	12	120
191110	10-1/4" Wooden Shoe Handle	5 x 16	Stainless Steel	12	120
191120	13-1/2" Wooden Curved Handle	3 x 19	Carbon Steel	12	120
191130	13-1/2" Wooden Curved Handle With Scraper	3 x 19	Carbon Steel	12	120
191140	13-1/2" Wooden Curved Handle	3 x 19	Stainless Steel	12	120
191150	13-1/2" Wooden Curved Handle With Scraper	3 x 19	Stainless Steel	12	120



Application: Ideal For Cleaning Dirt, Rust, Scale, & Paint. Can Also Be Used In Plating & Welding Operations

Welders' Toothbrushes

Part #	Size	Rows	Wire Type	Pack	Case
191200	6-7/8" x 1/2" Wooden Handle	3 x 7	Brass	36	-
191210	6-7/8" x 1/2" Wooden Handle	3 x 7	Carbon Steel	36	-
191220	6-7/8" x 1/2" Wooden Handle	3 x 7	Stainless Steel	36	-



Application: Ideal For Smaller Jobs, Plating & Welding Operations

Acid Brushes

Part #	Size	Fill Type	Wire Type	Pack	Case
191300	5-3/4" x 3/8"	Horsehair Fill	N/A	144	-

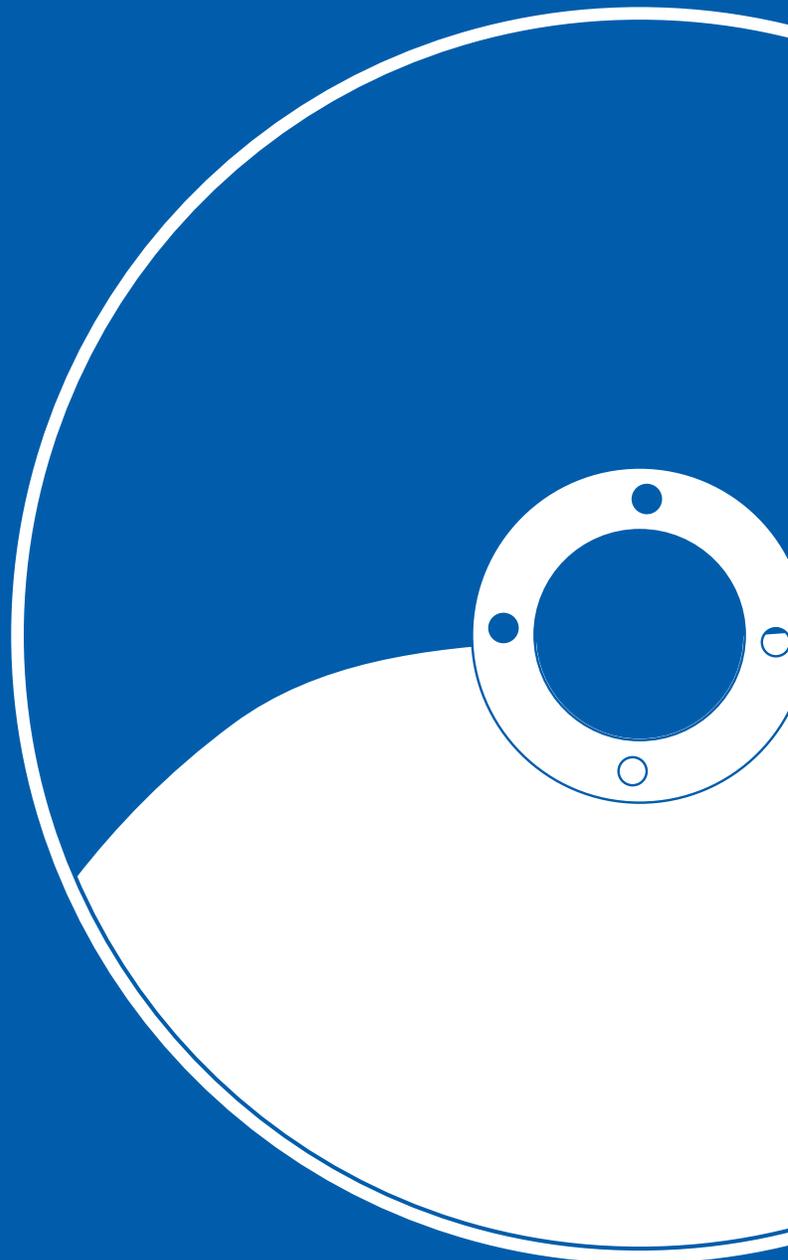


Application: Ideal For Cleaning & Coating

GRINDING WHEELS

**remove material,
polish & finish.**

Champion's Zirconia & Heat-Treated Aluminum Oxide Wheels Can Be Used On Ferrous Metals & Even Tough Stainless Steel.



Grinding Wheels - 1/4"

Depressed Center | Type 27

ZA24T - Zirconia - For Stainless Steel, Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
622060	4-1/2" x 1/4" x 7/8"	13,300	Single	25	200
622070	4-1/2" x 1/4" x 5/8" - 11	13,300	Single	20	40
622080	5" x 1/4" x 7/8"	12,200	Single	25	100
622090	5" x 1/4" x 5/8" - 11	12,200	Single	20	40
622140	7" x 1/4" x 7/8"	8,500	Single	20	80
622150	7" x 1/4" x 5/8" - 11	8,500	Single	10	20

AT24R - Heat-Treated Aluminum Oxide - For Ferrous Metals, Stainless Steel



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
623505	4" x 1/4" x 5/8"	13,500	Single	25	200
623510	4-1/2" x 1/4" x 7/8"	13,300	Single	25	200
623520	4-1/2" x 1/4" x 5/8" - 11	13,300	Single	20	40
623530	5" x 1/4" x 7/8"	12,200	Single	25	100
623540	5" x 1/4" x 5/8" - 11	12,200	Single	20	40
623570	6" x 1/4" x 7/8"	10,200	Single	25	100
623580	6" x 1/4" x 5/8" - 11	10,200	Single	10	20
623550	7" x 1/4" x 7/8"	8,500	Single	20	80
623560	7" x 1/4" x 5/8" - 11	8,500	Single	10	20
623500	9" x 1/4" x 7/8"	6,500	Single	15	60
623590	9" x 1/4" x 5/8" - 11	6,500	Single	10	20

A24U - Aluminum Oxide - For Ferrous Metals - Long Life



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
624020	4-1/2" x 1/4" x 7/8"	13,300	Single	25	200
624030	4-1/2" x 1/4" x 5/8" - 11	13,300	Single	20	40
624040	5" x 1/4" x 7/8"	12,200	Single	25	100
624050	5" x 1/4" x 5/8" - 11	12,200	Single	20	40
624060	7" x 1/4" x 7/8"	8,500	Single	20	80
624070	7" x 1/4" x 5/8" - 11	8,500	Single	10	20
624080	9" x 1/4" x 7/8"	6,500	Single	15	60
624090	9" x 1/4" x 5/8" - 11	6,500	Single	10	20

A24S - Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
620030	4" x 1/4" x 5/8"	13,500	Dual	25	200
620060	4-1/2" x 1/4" x 7/8"	13,300	Dual	25	200
620070	4-1/2" x 1/4" x 5/8" - 11	13,300	Dual	20	40
620100	5" x 1/4" x 7/8"	12,200	Dual	25	100
620110	5" x 1/4" x 5/8" - 11	12,200	Dual	20	40
620120	6" x 1/4" x 7/8"	10,200	Dual	25	100
620130	6" x 1/4" x 5/8" - 11	10,200	Dual	10	20
620140	7" x 1/4" x 7/8"	8,500	Dual	20	80
620150	7" x 1/4" x 5/8" - 11	8,500	Dual	10	20
620180	9" x 1/4" x 7/8"	6,500	Dual	15	60
620190	9" x 1/4" x 5/8" - 11	6,500	Dual	10	20

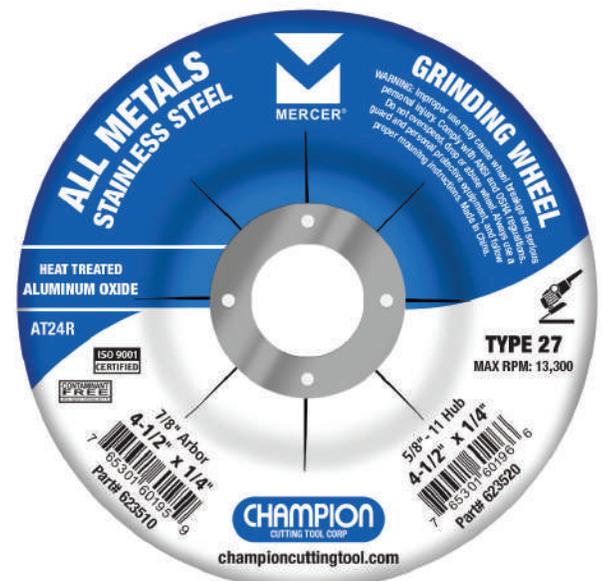
Power Tool: Angle Grinder

Application: For Grinding, Weld De-Burring, & Dressing

Zirconia Grain: Ultra Hard Grain For Grinding Tough Stainless Steel & Ferrous Metals, Balanced To Avoid Vibration, Single Grit- Consistent Performance At Any Angle, Contaminant Free

Heat-Treated Aluminum Oxide Grain: Most Popular For Grinding Ferrous Metals & Stainless Steel, High Performance Due To Heat Treatment, Balanced To Avoid Vibration, Single Grit- Consistent Performance At Any Angle

Aluminum Oxide Grain: General Purpose Wheels For Grinding Ferrous Metals, A24U Grain is Harder & Longer Lasting Than Standard A24S Grain, Contaminant Free



Grinding Wheels - 1/4"



Depressed Center | Type 27 | For Aluminum

AC24R - Aluminum Oxide / Silicon Carbide / Chromium - For Non-Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
627060	4-1/2" x 1/4" x 7/8"	13,300	Single	25	200
627070	4-1/2" x 1/4" x 5/8" - 11	13,300	Single	20	40
627080	5" x 1/4" x 7/8"	12,200	Single	25	100
627090	5" x 1/4" x 5/8" - 11	12,200	Single	20	40
627140	7" x 1/4" x 7/8"	8,500	Single	20	80
627150	7" x 1/4" x 5/8" - 11	8,500	Single	10	20

Power Tool: Angle Grinder

Application: For Grinding Of Aluminum & Non-Ferrous Metals Like Copper & Brass

Features: Engineered To Prevent Loading When Grinding Soft Metals, High Strength Internally Reinforced



Grinding Wheels - 1/4"

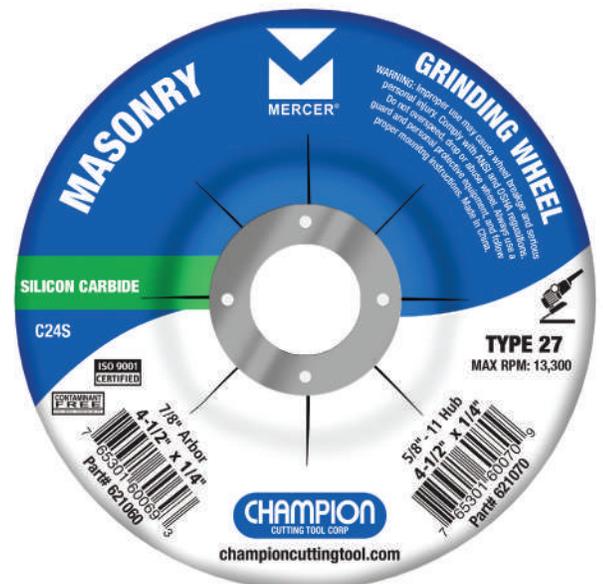


Depressed Center | Type 27 | For Masonry

C24S - Silicon Carbide - For Masonry



Part #	Dia x Width x Arbor	Max RPM	Grit	Pack	Case
621060	4-1/2" x 1/4" x 7/8"	13,500	Single	25	200
621070	4-1/2" x 1/4" x 5/8" - 11	13,300	Single	20	40
621140	7" x 1/4" x 7/8"	8,500	Single	20	80
621150	7" x 1/4" x 5/8" - 11	8,500	Single	10	20



Power Tool: Angle Grinder

Application: Grind Brick, Block, Concrete, Natural / Artificial Stone

Cutting / Light Grinding Wheels - 1/8"

Depressed Center | Type 27

ZA30S - Zirconia - For Stainless Steel, Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
622000	4-1/2" x 1/8" x 7/8"	13,300	25	200
622010	4-1/2" x 1/8" x 5/8" - 11	13,300	20	40
622020	5" x 1/8" x 7/8"	12,200	25	100
622030	5" x 1/8" x 5/8" - 11	12,200	20	40
622040	7" x 1/8" x 7/8"	8,500	25	100
622050	7" x 1/8" x 5/8" - 11	8,500	10	20

AT24R - Heat-Treated Aluminum Oxide - For Ferrous Metals, Stainless Steel



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
623610	4" x 1/8" x 5/8"	13,300	25	200
623620	4-1/2" x 1/8" x 5/8" - 11	13,300	20	40
623630	5" x 1/8" x 7/8"	12,200	25	100
623640	5" x 1/8" x 5/8" - 11	12,200	20	40
623650	6" x 1/8" x 7/8"	10,200	25	100
623660	6" x 1/8" x 5/8" - 11	10,200	10	20
623670	7" x 1/8" x 7/8"	8,500	25	100
623680	7" x 1/8" x 5/8" - 11	8,500	10	20
623690	9" x 1/8" x 7/8"	6,500	20	80
623695	9" x 1/8" x 5/8" - 11	6,500	10	20

A24S - Aluminum Oxide - For Ferrous Metals



Part #	Dia x Width x Arbor	Max RPM	Pack	Case
620040	4-1/2" x 1/8" x 7/8"	13,300	25	200
620050	4-1/2" x 1/8" x 5/8" - 11	13,300	20	40
620160	7" x 1/8" x 7/8"	8,500	25	100
620170	7" x 1/8" x 5/8" - 11	8,500	10	20
620200	9" x 1/8" x 7/8"	6,500	20	80
620210	9" x 1/8" x 5/8" - 11	6,500	10	20

Wheels Are Dual Grit

Reusable Adapters For 7" & 9"

Part #	Size	Box	Case
692FLAN50	7/8" to 5/8" - 11	1	5



Power Tool: Angle Grinder

Application: Cut & Lightly Grind Without Changing Wheels

Zirconia Grain: Hardest Grain For Cutting & Grinding Stainless Steel & Ferrous Metals

Heat-Treated Aluminum Oxide Grain: Most Popular For Cutting Ferrous Metals & Stainless Steel

Aluminum Oxide Grain: General Purpose Wheels For Light Grinding Ferrous Metals



Wheel Without Hub

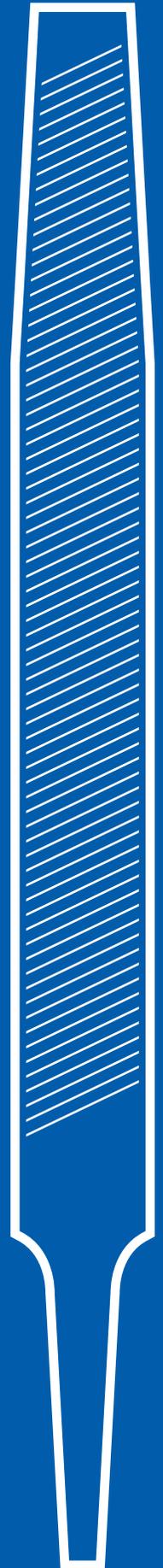


Wheel With Hub

FILES & RASPS

a part of metalworking history.

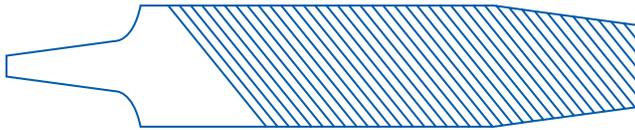
Files Are Essential Hand Tools For Many Metalworking Applications. Remove Material, Smooth & Finish Using Champion's Large Variety Of File Shapes & Sizes.



Files

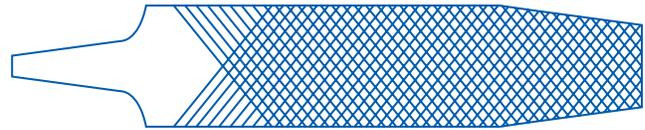
Single Cut Files:

Have Rows Of Teeth Cut Parallel To Each Other



Double Cut Files:

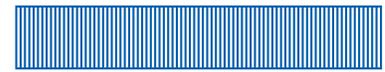
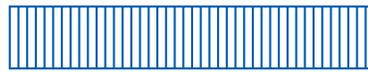
Have Rows Of Teeth Crisscrossed So Teeth Become Diamond Shaped For Fast Cutting



BASTARD CUT

SECOND CUT

SMOOTH CUT



Coarse Teeth For
Rapid Material Removal

Medium Teeth For
Moderate Material Removal

Fine Teeth For A
Smooth Finish



Barrette



Crossing



Equaling



Flat



Half Round



Joint



Knife



Marking



Mill



Pippin



Round



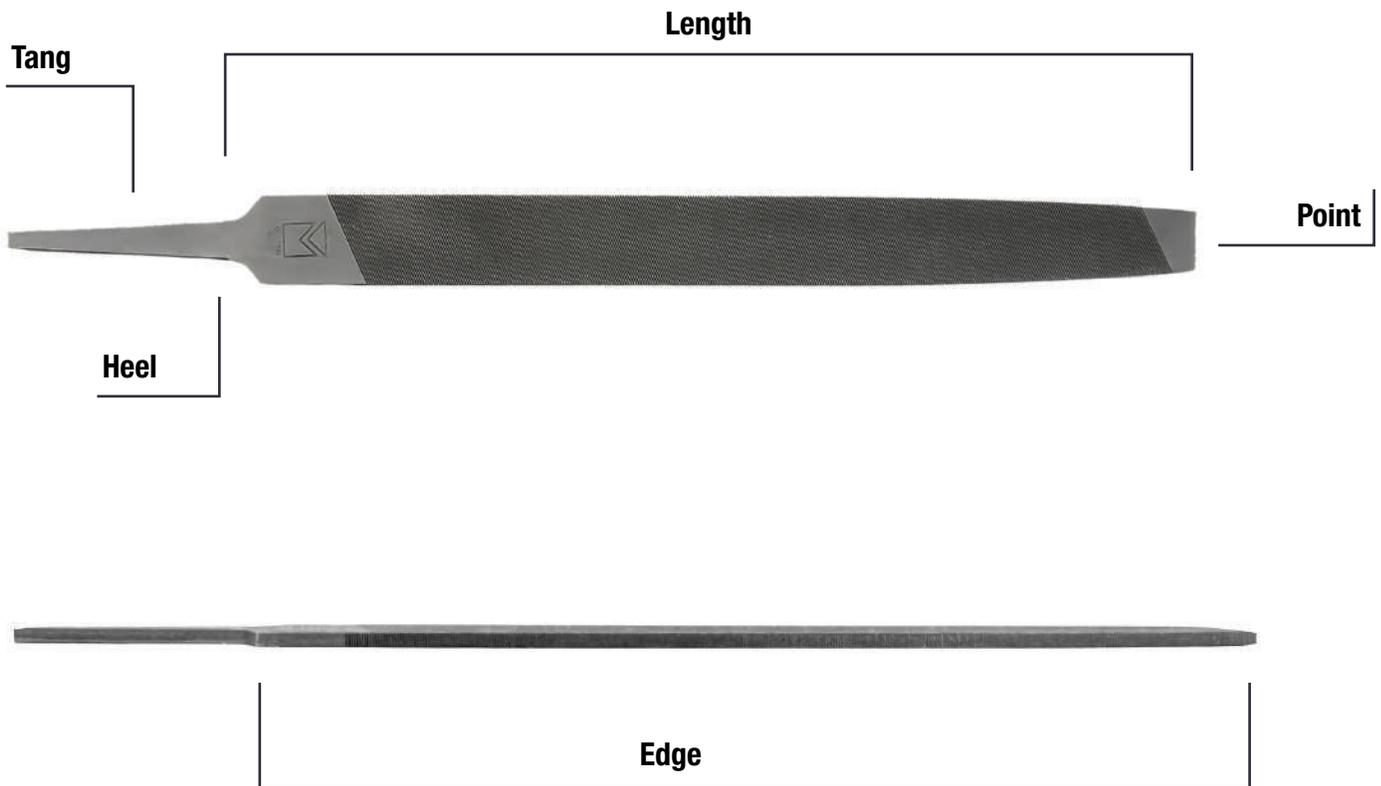
Slitting



Square



Three Square



Edge can be round or square



Round or Square

Tang: The Pointed Part Of The File That Is Inserted Into The File Handle.

Heel: The Part Of The File That Comes Next To The Tang – Also Known As The Shoulder.

Length: The Distance Between The Point & The Heel – Also Known As The Body.

Point: The End Of The File Opposite The Tang. May Be Tapered Or Blunt.

Edge: The Narrow File Surface – May Be Round Or Square.

If No Teeth Are Cut, They Are Known As Safe Edges.

Files

Half Round - Rapid Removal - Smooth Finish

Bastard #	Second #	Smooth #	Size	Pack
-	BHRE04	BHRS04	4"	12
BHRB06	BHRE06	BHRS06	6"	12
BHRB08	BHRE08	BHRS08	8"	12
BHRB10	BHRE10	BHRS10	10"	12
BHRB12	BHRE12	-	12"	6
BHRB14	-	-	14"	6
BHRB16	-	-	16"	6



Rounded On One Side, Flat On The Other. Ideal For Rounding Out Holes. Can Be Used On Concave, Convex, Or Flat Surfaces. Rapidly Removes Material But Leaves A Smooth Finish.

Round - Enlarge - Tapered Point

Bastard #	Second #	Smooth #	Size	Pack
BROB04	-	BROS04	4"	12
BROB06	BROE06	BROS06	6"	12
BROB08	BROE08	-	8"	12
BROB10	BROE10	BROS10	10"	12
BROB12	BROE12	-	12"	6
BROB14	-	-	14"	6



Primarily Used To Round Out Or Enlarge Circular Openings Or Concave Surfaces. Tapered Point Adapts To Numerous Hole Sizes.

Pipeliner - Rapid Removal - Smooth Finish

Part #	Size	Cut	Pack
BPPL14	14"	Single	6



Rounded On One Side, Flat On The Other. Used On Concave, Convex, & Flat Surfaces. Single Cut.

Flat - Rapid Stock Removal

Bastard #	Second #	Smooth #	Size	Pack
-	-	BFLS04	4"	12
BFLB06	BFLE06	BFLS06	6"	12
BFLB08	BFLE08	BFLS08	8"	12
BFLB10	BFLE10	BFLS10	10"	12
BFLB12	BFLE12	BFLS12	12"	6
BFLB14	BFLE14	BFLS14	14"	6
BFLB16	-	-	16"	6



Versatile File Used By Machinists, Repairmen, & Others Who Require Rapid Stock Removal Of Metal. Tapered At The Point For Detail Work. Double-Cut.

Mill - Single Cut - Two Square Edges

Bastard #	Smooth #	Size	Pack
BMRB04	-	4"	12
BMRB06	BMRS06	6"	12
BMRB08	BMRS08	8"	12
BMRB10	BMRS10	10"	12
BMRB12	BMRS12	12"	6
BMRB14	BMRS14	14"	6



Primarily Used For Sharpening Saws, Lathes, & Tools. Can Be Used For Draw Filing, Finishing, & General Shop Use. Regular Tapered At The Point For Detail Work. Two Square Edges.

Flat Foundry - Rapid Stock Removal

Part #	Size	Cut	Pack
BFND14	14"	Extremely Coarse	6



Extremely Coarse For Rapid Stock Removal Of Metal. Tapered At The Point For Detail Work. Double-Cut On Sides, Single-Cut On Both Edges.

Spot Welder Tip - Concave Cut

Part #	Size	Pack
BWEL10	10"	12



Designed To Dress Spot Welder Tips. Cut On The Concave Side. Uncut (Safe) On The Other Side.

Square - 4 Sides

Part #	Size	Pack
BSQB04	4"	12
BSQB06	6"	12
BSQB08	8"	12
BSQB10	10"	12



Used For Filing Slots, Keyways, Square Holes, & General Surface Filing. All Four Sides Are Equal Filing Surfaces. Double-Cut.

Round Chain Saw - For Chain Saw Teeth

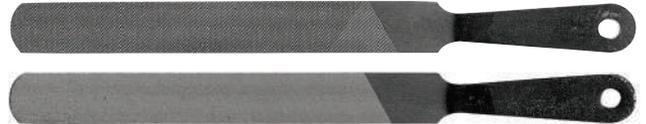
Part #	Size	Pack
BCS606	6" x 1/8"	12
BCS602	6" x 5/32"	12
BCS803	8" x 3/16"	12
BCS808	8" x 13/64"	12
BCS805	8" x 7/32"	12



Designed For Sharpening All Chain Saw Teeth. Maintains Proper Tooth Shape & Leaves An Excellent Cutting Edge.

Farmers Own - For Agricultural Use

Part #	Size	Pack
BFAR08	8"	12
BFAR10	10"	12
BFAR12	12"	6



Excellent General Purpose File For Agricultural Use. Double-Cut On One Side For Faster Cutting, Single-Cut On The Other For A Slower, More Precise Cut. One Safe Edge For Corners. Large Handle For Easy Use.

Lathe - For Hard Or Soft Materials

Part #	Size	Pack
BLA10	10"	12
BLA14	14"	6



For Finish Lathe Work On Either Hard Or Soft Metals. Cuts Faster Than Regular Mill Files & Leaves A Smoother Finish. Both Edges Are Uncut (Safe).

Saw - Sharpen Teeth - File Gullets

Slim Taper #	Extra Slim Taper #	Size	Pack
-	BTRX04	4"	12
BTRS06	BTRX06	6"	12
-	BTRX07	7"	12
BTRS08	-	8"	12



Used For Sharpening Teeth & Filing Gullets On A Wide Variety Of Saws. Each Type Of File Has A Specific Saw Application.

Files / Accessories



Rotary Mower - For Homeowners

Part #	Size	Pack
BROT08	8"	12



The Ideal File For Homeowners. Used For Sharpening Lawn Mower Blades & Other Gardening Tools. May Also Be Used To Sharpen Woodworking Tools Such As Chisels & Scrapers.

Three Square - Access Corners

Bastard #	Second #	Size	Pack
BTHB04	-	4"	12
BTHB06	BTHE06	6"	12
BTHB08	BTHE08	8"	12
BTHB10	BTHE10	10"	12



Primarily Used By Machinists For Angles Less Than 90° On Corners, & Filing Cutters & Taps. This File Gets Into Corners That Others Cannot.

Warding / Locksmith - Locks & Keys

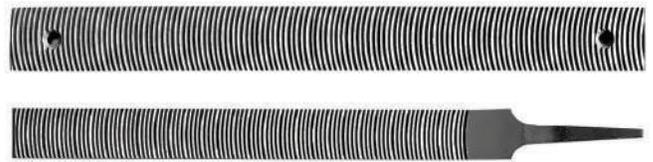
Bastard #	Size	Pack
BWAB04	4"	12
BWAB06	6"	12
BWAB08	8"	12



Commonly Referred To As "The Locksmith File." Also Used For Repairing & Filing Ward Notches In Locks & Keys. May Also Be Used In Narrow Spaces Where Other Files Will Not Fit. Double-Cut On Sides, Single-Cut On Edges.

Mill Curved Tooth - Curved Metal Surfaces

Rigid With Tang #	Flexible No Tang #	Size	Pack
BMCT08	-	8"	12
BMCT10	-	10"	12
BMCT12	-	12"	6
BMCT14	BMCN14	14"	6



Features Curved Contours Across The File Face For Smoothing Of Curved Metal Surfaces.

Handles

Part #	Size	Packaging	Pack
BFH202	4" - 6" Files	Bulk	12
BFH203	6" - 8" Files	Bulk	12
BFH304	8" - 10" Files	Bulk	12
BFH405	12" - 14" Files	Bulk	12



File Cleaner

Part #	Size	Pack
BFC001	4-1/3" x 1-1/2"	12



Files / Rasps



Fastmill - Laminates / Solid Surfaces

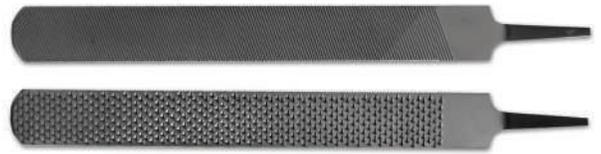
Part #	Size	Cut	Pack
BFMB10	10"	Single	12
BFMB12	12"	Single	6
BFMB14	14"	Single	6



Fastest Cut File For A Wide Range Of Plastics, Laminates, & Other Soft Materials. Single-Cut On Both Sides. Finish Can Be Varied By User. Retail Packaging.

Horseshoe Rasps With Tang

Part #	Size	Pack
BHST14	14"	6



Primarily Used By Blacksmiths & Farriers (Horseshoers) For Racetrack & Riding Horses. Features Rasp Teeth On One Side & File Teeth On The Other. Single-Cut On Edges.

Rapid Cross Cut - Laminates / Solid Surfaces

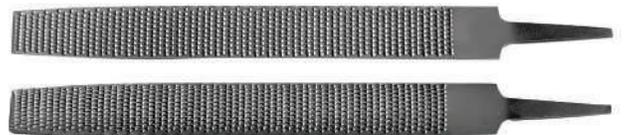
Part #	Size	Cut	Pack
BPLI10	10"	Double	6
BPLA12	12"	Double	6
BPLI14	14"	Double	6



Fastest Cut File For A Wide Range Of Plastics, Laminates, & Other Soft Materials. Double Cut On Both Sides. Finish Can Be Varied By User. Retail Packaging.

Wood Rasps - Woodwork / Furniture

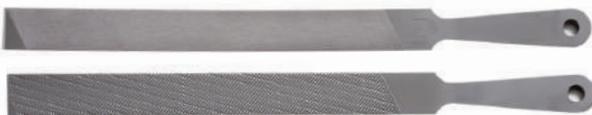
Flat Bastard #	Half Round Bastard #	Size	Pack
BWFB10	-	10"	12
BWFB12	BWHB12	12"	6
-	BWHB14	14"	6



Used By Woodworkers, Cabinetmakers, & Furniture Craftsmen. Features Uniform, Individually Formed Teeth In A Variety Of Styles For Different Applications.

Dual - Laminates / Solid Surfaces

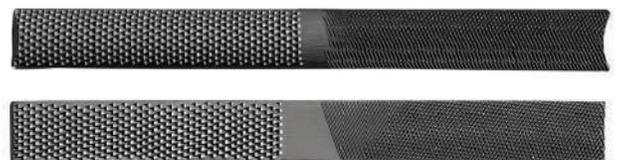
Part #	Size	Cut	Pack
BDUA10	10"	Double / Single	12
BDUA12	12"	Double / Single	6



Excellent For Edge Filing Of Laminates. Double-Cut On One Side For Faster Cutting. Single-Cut On The Other Side For A Slower, More Precise Cut. One Safe Edge For Corners. Large Handle For Easy Use. Retail Packaging.

Half Round 4-In-1 Shoe Rasps

Part #	Size	Pack
BSR10	10"	12



An All-Around File Used By Homeowners, Hobbyists, & Shoemakers. Features A File & Rasp Section On Both The Flat & Half-Round Sides.

File / Rasp Sets

General Sharpening & Maintenance

Part #	Size	Pack
BFS910	6" - 10"	1 Set

9 Piece Set Packed In Durable Plastic Pouch With Reinforced Slots Includes 1 Each:

- 10" Flat Bastard
- 10" Flat Smooth
- 10" Mill Bastard
- 10" Half Round Bastard
- 10" Round Bastard
- 8" Flat Smooth
- 8" Half Round Bastard
- 8" 4-in-1 Shoe Rasp
- 6" Slim Taper



Ideal For General Sharpening & Maintenance Around The Shop, Garage Or Manufacturing Plant

Assorted

Part #	Size	Pack
BFS604	6" - 8"	1 Set

4 Piece Set Packed In Durable Plastic Pouch Includes 1 Each:

- 8" 4-in-1 Shoe Rasp
- 6" Slim Taper
- 8" Mill Bastard
- 6" Round

Perfect File Set For the DIY Market



6" Assorted - Popular Files

Part #	Size	Pack
BF606A	6"	1 Set

6 Piece Set Packed In Easy To Carry Vinyl Pouch Includes 1 Each:

- Half Round
- Flat
- Mill
- Regular Taper
- Round
- Square



4" Hobby Set

Part #	Size	Pack
BMHS06	4"	1 Set

6 Piece Set Packed In Plastic Tube Includes 1 Each:

- Half Round
- Hand
- Round
- Square
- Three Square
- Warding

Contains Everything Needed For Small, Delicate Jobs



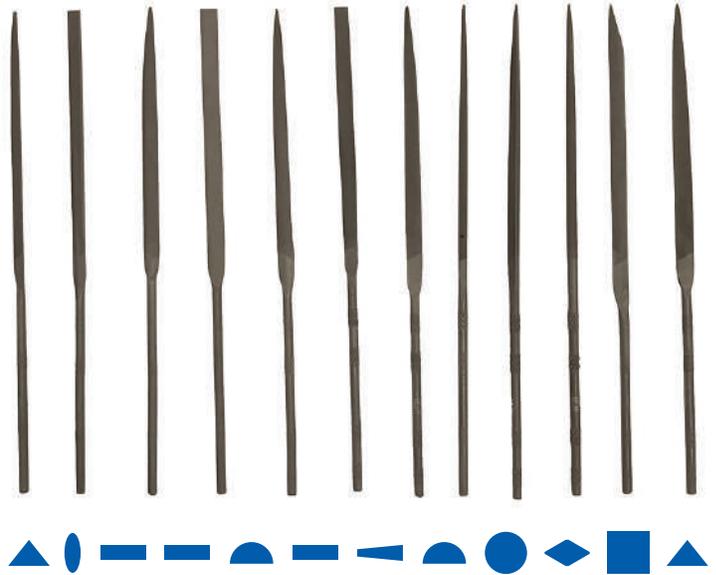
Swiss Pattern Needle Files

Part #	Size	Pack
GNSI52	5-1/2"	1 Set
GNSI62	6-1/4"	1 Set

12 Piece Set Packed In Plastic Protective Case
Includes 1 Each:

- Barrette
- Crossing
- Equaling
- Flat
- Half Round
- Joint
- Knife
- Marking
- Round
- Slitting
- Square
- Three Square

Primarily Used By Jewelers, Watchmakers, & Fine Tool
& Die Makers. The Finest Detail Files Available



7-1/2" Riffler Rasp Set

Part #	Size	Pack
BCRIFS	7-1/2"	1 Set

8 Piece Set Of The Most Popular Shapes Packed
In Clamshell

Designed For Woodworking, Carving, & Sculpting



Files - Retail Packaging



Half Round Bastard - Rapid Removal - Smooth Finish

Bastard #	Size	Pack
BCDHR08	8"	5
BCDHR10	10"	5
BCDHR12	12"	5

Rounded On One Side, Flat On The Other. Ideal For Rounding Out Holes. Can Be Used On Concave, Convex, Or Flat Surfaces. Rapidly Removes Material But Leaves A Smooth Finish.

Mill Bastard - Single Cut - Two Square Edges

Bastard #	Size	Pack
BCDMR08	8"	5
BCDMR10	10"	5
BCDMR12	12"	5

Primarily Used For Sharpening Saws, Lathes, & Tools. Can Be Used For Draw Filing, Finishing, & General Shop Use. Regular Tapered At The Point For Detail Work. Two Square Edges.

Round Bastard - Enlarge - Tapered Point

Bastard #	Size	Pack
BCDRO08	8"	5
BCDRO10	10"	5
BCDRO12	12"	5

Primarily Used To Round Out Or Enlarge Circular Openings Or Concave Surfaces. Tapered Point Adapts To Numerous Hole Sizes.

Round Chain Saw - For Chain Saw Teeth

Bastard #	Size	Pack
BCDCS81	8" x 5/32"	5

Designed For Sharpening All Chain Saw Teeth. Maintains Proper Tooth Shape & Leaves An Excellent Cutting Edge.

Rotary Mower - For Homeowners

Part #	Size	Pack
BCDRT08	8"	5

The Ideal File For Homeowners. Used For Sharpening Lawn Mower Blades & Other Gardening Tools. May Also Be Used To Sharpen Woodworking Tools Such As Chisels & Scrapers.

Flat Bastard - Rapid Stock Removal

Bastard #	Size	Pack
BCDFL08	8"	5
BCDFL10	10"	5
BCDFL12	12"	5

Versatile File Used By Machinists, Repairmen, & Others Who Require Rapid Stock Removal Of Metal. Tapered At The Point For Detail Work. Double-Cut.



CONCRETE & MASONRY

drill, hammer, penetrate.

Our Standard Hammer Bits Are Top Quality & Engineered For Optimal Tool Life. Drill Through Tough, Rebar Embedded Concrete Using Champion's Best Selling Rebar Cutters.



SDS-Plus Hammer Bits

PROLINE

Series CM95X | Heavy Duty | Double Flutes | 4 Cutter Cross-Head



Part #	Working Length (in)	Overall Length (in)
CM95X-5/32X2X4*	2	4
CM95X-5/32X4X6*	4	6
CM95X-3/16X2X4*	2	4
CM95X-3/16X4X6*	4	6
CM95X-3/16X6X8*	6	8
CM95X-3/16X8X10*	8	10
CM95X-3/16X10X12*	10	12
CM95X-1/4X2X4*	2	4
CM95X-1/4X4X6*	4	6
CM95X-1/4X6X8*	6	8
CM95X-1/4X8X10*	8	10
CM95X-1/4X10X12*	10	12
CM95X-5/16X4X6*	4	6
CM95X-5/16X10X12*	10	12
CM95X-5/16X16X18*	16	18
CM95X-3/8X4X6**	4	6
CM95X-3/8X10X12**	10	12
CM95X-3/8X16X18**	16	18

Part #	Working Length (in)	Overall Length (in)
CM95X-7/16X4X6**	4	6
CM95X-7/16X10X12**	10	12
CM95X-7/16X16X18**	16	18
CM95X-1/2X4X6**	4	6
CM95X-1/2X10X12**	10	12
CM95X-1/2X16X18**	16	18
CM95X-9/16X4X6**	4	6
CM95X-9/16X10X12**	10	12
CM95X-9/16X16X18**	16	18
CM95X-5/8X6X8**	6	8
CM95X-5/8X10X12**	10	12
CM95X-5/8X16X18**	16	18
CM95X-3/4X8X10**	8	10
CM95X-3/4X16X18**	16	18
CM95X-7/8X16X18**	16	18
CM95X-1X16X18**	16	18
CM95X-1-1/4X16X18**	16	18



Popular Sizes Available In Bulk (Series: CM95XB)

* 4 Cutter Welded Tips

** 4 Cutter Brazed Tips

Set

Part #	Qty	Contents
CM95X-SET-5	5 Piece	3/16, 1/4, 5/16, 3/8 & 1/2"

Power Tool: SDS-Plus Rotary Hammer Drills

Application: Drill Concrete, Hard Masonry Materials & Rebar

Features: Ultra-Hard Solid Carbide Tip Cross-Head, Heat Treated Body, Reinforced Double Flutes

Advantage: Drill Quickly & Accurately, Penetrates Rebar, Long Tool Life, Better Dust Extraction, Rounder Holes

SDS-Plus Hammer Bits

PROLINE

Series CM95 | Heavy Duty | Enhanced Flute



Part #	Working Length (in)	Overall Length (in)
CM95-5/32X2X4	2	4
CM95-5/32X4X6*	4	6
CM95-3/16X2X4*	2	4
CM95-3/16X4X6*	4	6
CM95-3/16X6X8*	6	8
CM95-3/16X10X12	10	12
CM95-7/32X4X6*	4	6
CM95-7/32X6X8*	6	8
CM95-7/32X9X11*	9	11
CM95-7/32X12X14	12	14
CM95-7/32X14X16	14	16
CM95-1/4X2X4*	2	4
CM95-1/4X4X6*	4	6
CM95-1/4X6X8*	6	8
CM95-1/4X9X11	9	11
CM95-1/4X12X14	12	14
CM95-1/4X14X16	14	16
CM95-5/16X4X6*	4	6
CM95-5/16X10X12	10	12
CM95-3/8X4X6*	4	6
CM95-3/8X8X10*	8	10
CM95-3/8X10X12	10	12
CM95-3/8X16X18	16	18

Part #	Working Length (in)	Overall Length (in)
CM95-3/8X22X24	22	24
CM95-7/16X4X6	4	6
CM95-7/16X10X12	10	12
CM95-1/2X4X6*	4	6
CM95-1/2X8X10*	8	10
CM95-1/2X10X12	10	12
CM95-1/2X16X18	16	18
CM95-1/2X22X24	22	24
CM95-9/16X4X6	4	6
CM95-5/8X6X8*	6	8
CM95-5/8X10X12	10	12
CM95-5/8X16X18	16	18
CM95-5/8X22X24	22	24
CM95-11/16X6X8	6	8
CM95-3/4X6X8*	6	8
CM95-3/4X10X12*	10	12
CM95-3/4X16x18	16	18
CM95-3/4X22x24	22	24
CM95-7/8X6X8*	6	8
CM95-7/8X10X12	10	12
CM95-1X8X10	8	10
CM95-1X16X18	16	18
CM95-1/4X10X12	10	12



* Popular Sizes Available In Bulk (Series: CM95B)

Set

Part #	Qty	Contents
CM95-SET5	5 Piece	5/32, 3/16, 1/4, 3/8 & 1/2"

Power Tool: SDS-Plus Rotary Hammer Drills

Application: Drill Concrete & Other Hard Masonry Materials

Features: Ultra-Hard Solid Brazed Carbide Tip, Heat Treated Body, Reinforced Flutes, Chisel Shaped Tip

Advantage: Drill Quickly & Accurately, Long Tool Life, Better Dust Extraction Than Standard SDS-PLUS Bits

SDS-Plus Hammer Bits

PROLINE



Series CM9 | General Purpose

Part #	Working Length (in)	Overall Length (in)
CM9-5/32X2X4	2	4
CM9-5/32X4X6	4	6
CM9-3/16X2X4	2	4
CM9-3/16X4X6	4	6
CM9-3/16X6X8	6	8
CM9-1/4X2X4	2	4
CM9-1/4X4X6	4	6
CM9-1/4X6X8	6	8
CM9-5/16X4X6	4	6
CM9-3/8X4X6	4	6
CM9-3/8X10X12	10	12

Part #	Working Length (in)	Overall Length (in)
CM9-1/2X4X6	4	6
CM9-1/2X10X12	10	12
CM9-9/16X4X6	4	6
CM9-5/8X6X8	6	8
CM9-5/8X10X12	10	12
CM9-3/4X6X8	6	8
CM9-3/4X10X12	10	12
CM9-7/8X6X8	6	8
CM9-7/8X10X12	10	12
CM9-1X8X10	8	10

Most Sizes Available In Bulk (Series: CM9B)



Power Tool: SDS-Plus Rotary Hammer Drills

Application: Drill Concrete & Hard Masonry Materials

Features: Carbide Tip

Advantage: Drill Quickly & Accurately

SDS-Plus Stop Bits

PROLINE



Series CM95-STOP | Heavy Duty | For Drop-In Anchors

Part #	Flute Length (in)	Drop-In Anchor Spec (in)
CM95-STOP-3/8X1-1/16	1-1/16	1/4
CM95-STOP-1/2X13/16	13/16	3/8-SHORT
CM95-STOP-1/2X1-11/16	1-11/16	3/8

Part #	Flute Length (in)	Drop-In Anchor Spec (in)
CM95-STOP-5/8X1-1/16	5/8	1/2-SHORT
CM95-STOP-5/8X2-1/16	5/8	1/2



Power Tool: SDS-Plus Rotary Hammer Drills

Application: Drill Holes In Concrete & Masonry For Drop-In Anchors, Installing Cable Trays/Struts, Suspending Conduit, Pipe Support, Suspended Lighting

Features: Large Diameter Collar Stop, Flute Extends All The Way To Stop Ring, Heavy Duty Chisel Shaped Carbide Tip

Advantage: Controlled Drilling Depth & Prevents Over Penetration, Drill Perfect Depth For Drop-In Anchors, Enhanced Dust Extraction, Fast, Accurate Drilling

SDS-Max Hammer Bits

PROLINE

Series CM96 | Heavy Duty | Enhanced Flute | 4 Cutter Cross-Head



Part #	Working Length (in)	Overall Length (in)
CM96-3/8X8X13*	8	13
CM96-1/2X8X13*	8	13
CM96-1/2X16X21*	16	21
CM96-9/16X8X13*	8	13
CM96-9/16X16X21*	16	21
CM96-5/8X8X13	8	13
CM96-5/8X16X21	16	21
CM96-5/8X31X36	31	36
CM96-11/16X16X21	16	21
CM96-3/4X8X13	8	13
CM96-3/4X17X21	17	21
CM96-3/4X31X36	31	36
CM96-7/8X8X13	8	13
CM96-7/8X17X21	17	21

Part #	Working Length (in)	Overall Length (in)
CM96-7/8X31X36	31	36
CM96-1X8X13	8	13
CM96-1X17X21	17	21
CM96-1X31X36	31	36
CM96-1-1/8X12X17	12	17
CM96-1-1/8X17X21	17	21
CM96-1-1/4X10X15	10	15
CM96-1-1/4X18X23	18	23
CM96-1-1/4X31X36	31	36
CM96-1-3/8X18X23	18	23
CM96-1-1/2X18X23	18	23
CM96-1-3/4X18X23	18	23
CM96-2X18X23	18	23



* 2 Cutter Heads

Hammer Bit Shank Adapter

Part #	Description
CM96-SDS-PLUS	SDS-MAX to SDS-PLUS



Power Tool: SDS-Max Rotary Hammer Drills

Application: Drill Concrete, Hard Masonry Materials & Rebar

Features: Ultra-Hard Carbide 4 Cutter Cross-Head, Heat Treated Body, Reinforced Core & Flutes

Advantage: Drill Quickly & Accurately, Penetrates Rebar, Long Tool Life, Better Dust Extraction, Quad Point Resists Vibration & Cuts Round Accurate Holes

Spline Shank Hammer Bits

PROLINE



Series CM97 | Heavy Duty | Single Cutter Tip

Part #	Working Length (in)	Overall Length (in)
CM97-3/8X5X10	5	10
CM97-3/8X8X13	8	13
CM97-3/8X11X16	11	16
CM97-1/2X5X10	5	10
CM97-1/2X8X13	8	13
CM97-1/2X11X16	11	16
CM97-1/2X17X22	17	22
CM97-1/2X24X29	24	29
CM97-1/2X31X36	31	36
CM97-9/16X5X10	5	10
CM97-9/16X8X13	8	13
CM97-5/8X5X10	5	10
CM97-5/8X8X13	8	13
CM97-5/8X11X16	11	16
CM97-5/8X17X22	17	22
CM97-5/8X24X29	24	29
CM97-5/8X31X36	31	36
CM97-3/4X11X16	11	16

Part #	Working Length (in)	Overall Length (in)
CM97-3/4X17X22	17	22
CM97-3/4X24X29	24	29
CM97-3/4X31X36	31	36
CM97-7/8X11X16	11	16
CM97-7/8X17X22	17	22
CM97-7/8X31X36	31	36
CM97-1X11X16	11	16
CM97-1X17X22	17	22
CM97-1X31X36	31	36
CM97-1-1/8X11X16	11	16
CM97-1-1/8X17X22	17	22
CM97-1-1/4X11X16	11	16
CM97-1-1/4X17X22	17	22
CM97-1-3/8X11X16	11	16
CM97-1-3/8X17X22	17	22
CM97-1-1/2X17X22	17	22
CM97-1-3/4X17X22	17	22
CM97-2X17X22	17	22



Hammer Bit Shank Adapter

Part #	Description
CM97-SDS-PLUS	Spline to SDS-Plus



Power Tool: Spline Shank Rotary Hammer Drills

Application: Drill Concrete & Other Hard Masonry Materials

Features: Single Cutter Carbide Tip, Heat Treated Body, Reinforced Flutes

Advantage: For Use In Spline Shank Power Tools

SDS-Plus Rebar Cutters

PROLINE

Series CM79SDS | Heavy Duty



Part #	Overall Length (in)
CM79SDS-3/8X8	8
CM79SDS-3/8X12	12
CM79SDS-7/16	12
CM79SDS-1/2	12
CM79SDS-9/16	12
CM79SDS-5/8	12

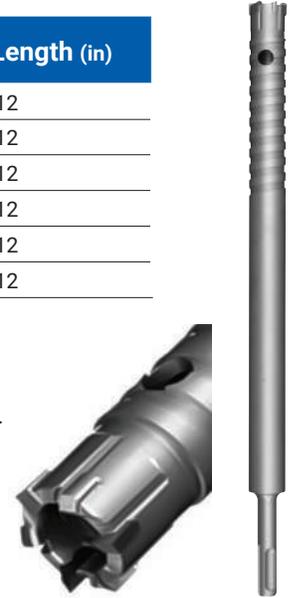
Part #	Overall Length (in)
CM79SDS-11/16	12
CM79SDS-3/4	12
CM79SDS-13/16	12
CM79SDS-7/8	12
CM79SDS-1	12
CM79SDS-1-1/8	12

Power Tool: SDS-Plus Hammer Drills - Rotary Mode Only

Application: Quickly Penetrate Rebar Embedded In Concrete. Do Not Use To Drill Concrete - Follow Three Step Operating Guidelines For Proper Use (See Below)

Features: Ultra-Sharp Carbide Teeth, Unique Flutes & Slot Design

Advantage: Fast Drilling, Enhanced Material Removal

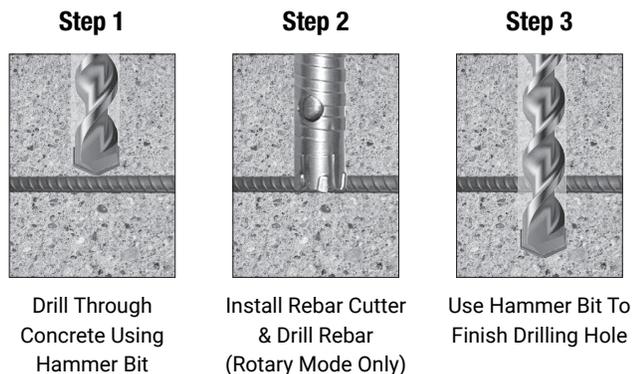


Straight Shank Rebar Cutters

PROLINE

Series CM79 | 1/2" Straight Shank

Part #	Shank Dia (in)	Overall Length (in)
CM79-1/2	1/2	12
CM79-5/8	1/2	12
CM79-3/4	1/2	12
CM79-7/8	1/2	12
CM79-1	1/2	12
CM79-1-1/8	1/2	12
CM79-1-1/4	1/2	12
CM79-1-3/8	1/2	12
CM79-1-1/2	1/2	12



Power Tool: 1/2" Chuck Hammer Drills - Rotary Mode Only

Application: Quickly Penetrate Rebar Embedded In Concrete. Do Not Use To Drill Concrete- Follow Three Step Operating Guidelines For Proper Use

Features: Ultra-Sharp Carbide Teeth, Unique Flutes & Slot Design

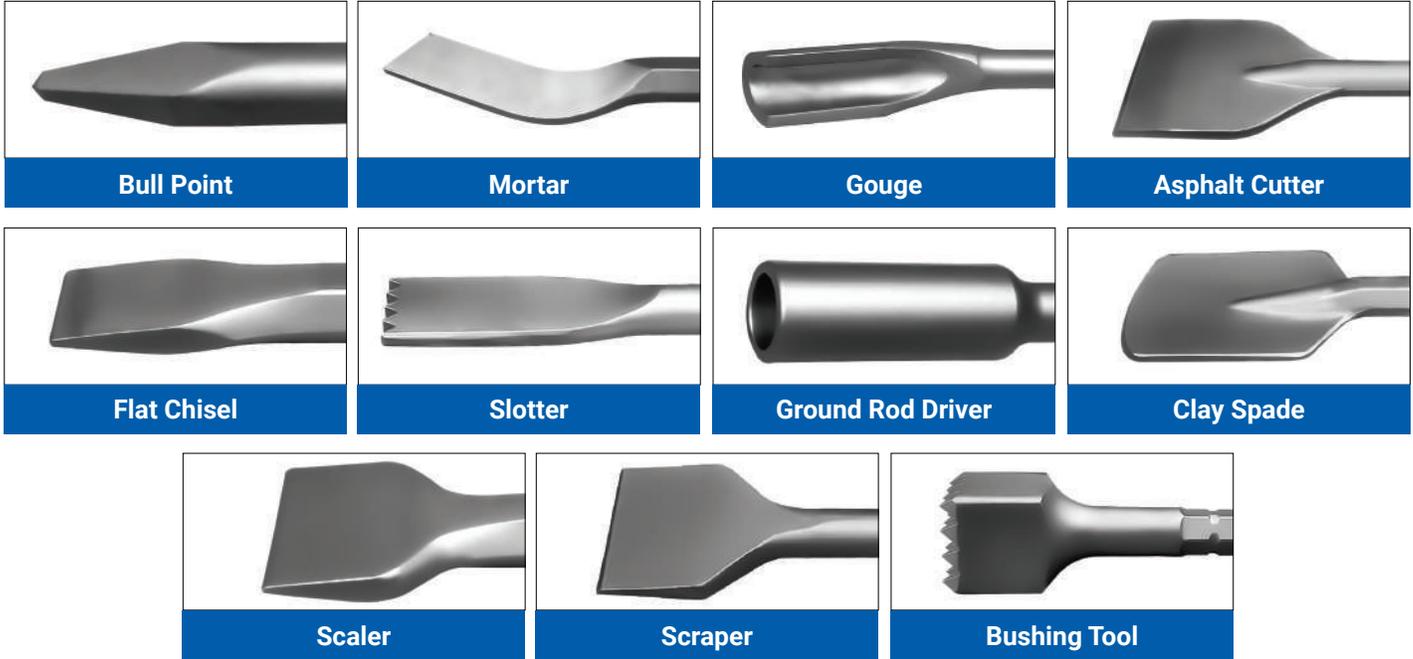
Advantage: Fast Drilling, Enhanced Material Removal



Hammer Chisels

PROLINE

Industrial Performance



Power Tool: Rotary Hammer Drills

Application: High Performance Masonry Removal - Road Construction, Pavement Work, Bridge Construction, Utility Installation, Demolition & Other Maintenance Functions

Features: Oil Quenched, Shot Blasted, High Quality Steel

Advantage: Additional Stress Relief, Anti-Rust, Long Life

SDS-Plus Chisels

PROLINE

Series CM95-CHISEL



Part #	Chisel Type
CM95-01	Bull Point 10"
CM95-02	Flat Chisel 3/4" x 10"
CM95-03	Scaler 1-5/8" x 10"



SDS-Max Chisels

PROLINE

Series CM96-CHISEL | Heavy Duty



Part #	Chisel Type
CM96-01	Bull Point 11"
CM96B-01	Bull Point 11" (Bulk)
CM96-02	Bull Point 12"
CM96B-02	Bull Point 12" (Bulk)
CM96-03	Bull Point 16"
CM96B-03	Bull Point 16" (Bulk)
CM96-04	Bull Point 18"
CM96B-04	Bull Point 18" (Bulk)
CM96-05	Flat Chisel 1" x 11"
CM96B-05	Flat Chisel 1" x 11" (Bulk)
CM96-06	Flat Chisel 1" x 12"
CM96B-06	Flat Chisel 1" x 12" (Bulk)
CM96-07	Flat Chisel 1" x 16"
CM96B-07	Flat Chisel 1" x 16" (Bulk)
CM96-08	Flat Chisel 1" x 18"

Part #	Chisel Type
CM96B-08	Flat Chisel 1" x 18" (Bulk)
CM96-09	Flat Chisel 1" x 24"
CM96-10	Scaler 1-5/8 x 12"
CM96-11	Scaler 2" x 12"
CM96-12	Scaler 3" x 12"
CM96-13	Mortar 1-1/8" x 12"
CM96-14	Slotter 1-1/4" x 12"
CM96-15	Scraper 2" x 12"
CM96-16	Gouge 1" x 12"
CM96-17	Ground Rod Driver 3/4" x 10"
CM96-18	Bushing Tool 1-3/4" x 10"
CM96-19	Bushing Shank 16"*
CM96-20	Bushing Head 16 Teeth
CM96-21	Asphalt Cutter 5" x 20"
CM96-22	Clay Spade



Spline Shank Chisels

PROLINE

Series CM97-CHISEL | Heavy Duty



Part #	Chisel Type
CM97-01	Bull Point 12"
CM97-02	Bull Point 16"
CM97-03	Bull Point 18"
CM97B-03	Bull Point 18" (Bulk)
CM97-04	Flat Chisel 1" x 12"
CM97-05	Flat Chisel 1" x 16"
CM97-06	Flat Chisel 1" x 18"
CM97-07	Slotter 1-1/4" x 12"
CM97-08	Clay Spade 4-1/2" x 20"

Part #	Chisel Type
CM97-09	Scaler 1-5/8" x 12"
CM97-10	Scaler 2" x 12"
CM97-11	Scaler 3" x 12"
CM97-12	Scraper 2" x 12"
CM97-13	Ground Rod Driver 3/4" x 10"
CM97-14	Bushing Tool 1-3/4" x 10"
CM97-15*	Bushing Shank 16"
CM97-16	Mortar 1-1/8" x 12"

* Shank Not Included



SDS-Plus Hammer Core Drills

PROLINE



Series CM95HC | Carbide Tipped

Core Bits

Part #	Size (in)	Usable Length (in)
CM95HC-1-3/16	1-3/16	2
CM95HC-1-3/8	1-3/8	2
CM95HC-1-9/16	1-9/16	2
CM95HC-1-3/4	1-3/4	2
CM95HC-2	2	2
CM95HC-2-9/16	2-9/16	2
CM95HC-3-1/8	3-1/8	2
CM95HC-3-1/2	3-1/2	2
CM95HC-4	4	2

Core Bit Only - Must Purchase Adapters Separately

CM95HC Accessories

Part #	Description	Overall Length (in)
CM95HC-ADAPTOR-4	SDS-Plus Shank + Centering Bit	4
CM95HC-ADAPTOR-8	SDS-Plus Shank + Centering Bit	8
CM95HC-ADAPTOR-14	SDS-Plus Shank + Centering Bit	14
CM95HC-DRILL	Centering Bit	N/A



CM95-ADAPTOR-4



CM95HC

Power Tool: SDS-Plus Hammer Drills - Run In Percussion Or Rotary Mode

Application: Drill Large Diameter Holes In Thin / Light Duty Building Materials Like Brick & Cement Block

Features: Ultra-Sharp Carbide Teeth, Centering Bit, External Spiral Flutes, Unique Tooth Design Reduces Snagging & Prevents Material From Getting Stuck In Hole

Advantage: Penetrate Materials Quickly, Accurate Drilling, Optimized Dust Removal, Heat Reduction



Heavy Duty Hammer Core Drills

PROLINE

Series CM89HC | SDS-Max / Spline | Carbide Tipped



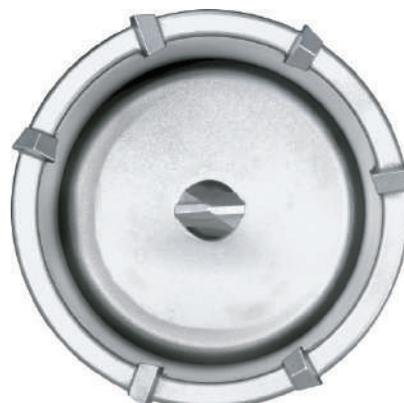
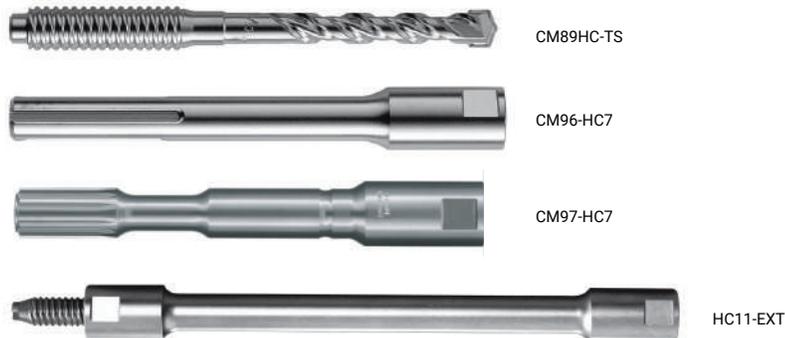
Core Bits

Part #	Size (in)	Usable Length (in)
CM89HC-1-3/4	1-3/4	4
CM89HC-2	2	4
CM89HC-2-5/8	2-5/8	4
CM89HC-3-1/8	3-1/8	4
CM89HC-3-1/2	3-1/2	4
CM89HC-4	4	4
CM89HC-5	5	4

Core Bit Only - Must Purchase Adapters Separately

CM89HC Accessories

Part #	Description	Overall Length (in)
CM96-HC7	SDS-Max Shank Adapter	7
CM97-HC7	Spline Shank Adapter	7
HC11-EXT	11" Extension	11
CM89HC-DRILL	15/32" Centering Bit	6
CM89HC-TS	Threaded Shank	N/A



Power Tool: SDS-Max or Spline Hammer Drills - Run In Percussion Or Rotary Mode

Application: Drill Large Diameter Holes In Concrete & Medium To Hard Building Materials

Features: Ultra-Sharp Carbide Teeth, Centering Bit, External Spiral Flutes, Unique Tooth Design Reduces Snagging & Prevents Material From Getting Stuck In Hole

Advantage: Penetrate Materials Quickly, Accurate Drilling, Optimized Dust Removal, Heat Reduction

Rotary Percussion Masonry Drills

PROLINE

Series CSC6 | General Purpose | 6" Length | Straight Shank

Part #	Shank Dia (in)	Overall Length (in)
CSC6-1/4	1/4	6
CSC6-5/16	1/4	6
CSC6-3/8	1/4	6
CSC6-7/16	1/4	6

Part #	Shank Dia (in)	Overall Length (in)
CSC6-1/2x1/4	1/4	6
CSC6-1/2x3/8	3/8	6
CSC6-5/8	1/2	6
CSC6-3/4	1/2	6



Power Tool: Rotary Percussion Tools & Handheld Power Drills

Application: Light To Medium Hard Building Materials, Concrete, Brick, Terra Cotta, Sandstone, Cinder Block, Ceramic Tile, & Slate

Features: Carbide Tipped, 6" Overall Length

Rotary Percussion Masonry Drills

PROLINE

Series CSC4 | General Purpose | 4" Length | Straight Shank

Part #	Shank Dia (in)	Overall Length (in)
CSC4-1/8	1/8	2-1/2
CSC4-3/16	3/16	3-3/8
CSC4-7/32	7/32	4
CSC4-1/4	1/4	4

Part #	Shank Dia (in)	Overall Length (in)
CSC4-5/16	1/4	4
CSC4-3/8	1/4	4
CSC4-1/2X1/4	1/4	4



Power Tool: Rotary Percussion Tools & Handheld Power Drills

Application: Light To Medium Hard Building Materials, Concrete, Brick, Terra Cotta, Sandstone, Cinder Block, Ceramic Tile, & Slate

Features: Carbide Tipped, 4" Overall Length

Rotary Percussion Masonry Drills

PROLINE

Series CM85 | Heavy Duty | Straight Shank

Part #	Shank Dia (in)	Overall Length (in)
CM85-1/8X3	3/16	3
CM85-3/16X3	1/4	3
CM85-3/16X4X6	1/4	6
CM85-7/32X4X6	1/4	6
CM85-1/4X4	1/4	4
CM85-1/4X6	1/4	6
CM85-1/4X12	1/4	12
CM85-1/4X24	1/4	24
CM85-5/16X4	1/4	4
CM85-5/16X6	1/4	6
CM85-5/16X12	1/4	12
CM85-3/8X4	1/4	4
CM85-3/8X6	1/4	6
CM85-3/8X12	3/8	12
CM85-3/8X24	3/8	24

Part #	Shank Dia (in)	Overall Length (in)
CM85-7/16X6	3/8	6
CM85-1/2X3/8X6	3/8	6
CM85-1/2X3/8X12	3/8	12
CM85-1/2X20	1/2	20
CM85-1/2X24	1/2	24
CM85-9/16X6	1/2	6
CM85-5/8X6	1/2	6
CM85-5/8X12	1/2	12
CM85-5/8X24	1/2	24
CM85-3/4X6	1/2	6
CM85-3/4X12	1/2	12
CM85-7/8X6	1/2	6
CM85-7/8X12	1/2	12
CM85-1X6	1/2	6
CM85-1X12	1/2	12



Power Tool: Rotary Percussion Tools & Handheld Power Drills

Application: Light To Medium Hard Building Materials Like Brick & Block

Features: Heat Treated Body, Sharp Carbide Tipped Point

Advantage: Faster, Longer Drilling

Masonry Drills For Tapcon[®] Anchors

PROLINE

Series TCB | Notched Straight Shank | Carbide Tipped

Part #	Shank Dia (in)	Overall Length (in)
TCB-5/32X3-1/2	5/32"	3-1/2"
TCB-5/32X4-1/2	5/32"	4-1/2"
TCB-5/32X5-1/2	5/32"	5-1/2"
TCB-3/16X3-1/2	3/16"	3-1/2"
TCB-3/16X4-1/2	3/16"	4-1/2"
TCB-3/16X5-1/2	3/16"	5-1/2"



Power Tool: Run Power Drill In Rotary Mode.

Application: Drill Light To Medium Hard Building Materials Like Concrete, Brick & Block.
Use With Tapcon[®] Style Concrete Anchors & Screws

Features: Carbide Tipped

Floor Scrapers

PROLINE

Heavy Duty | Electric Hammer

SDS-Plus



Part #	Description
CM99-SDS	Complete Floor Scraper - 4" Blade, 10" Overall Length
CM99-SDS-05	Repair Kit (Blade, Plate, 3 Bolts, Nuts, Washers)



SDS-Plus

SDS-Max



Part #	Description
CM99-20	Complete Floor Scraper - 6" Blade, 25" Overall Length
CM99-25	Replacement Blade
CM99-30	Repair Kit (Blade, Plate, 4 Bolts, 4 Nuts, Washers)



SDS-Max

SDS-Max, Spline (Older Generation)



Part #	Description
CM99-01*	Scraper Blade, Hardware
CM99-15	Scraper Blade, Spline Shank 16" Overall Length
CM99-19	Scraper Blade, SDS-Max Shank 16" Overall Length
CM99-02-M12*	Replacement Blade
CM99-03-M12*	Replacement Hardware (18 pc)

* Shank Not Included

Power Tool: SDS-Plus, SDS-Max or Spline Shank Rotary Hammer Drills

Application: Remove Residential & Commercial Floors - Remove Ceramic Tile, Thinset, Carpet Adhesive, VCT, Wood Floors, Vinyl Floors, Epoxy Floors, Mast, Tile Adhesive

Features: High Quality Hardened Steel

Advantage: Durable, Long Tool Life, Less Vibration

Wood Auger Drill Bits

PROLINE

Series 8018 | Heavy Duty | 17" Length

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
8018-3/8	5/16	11	17
8018-7/16	5/16	11	17
8018-1/2	5/16	11	17
8018-9/16	7/16	11	17
8018-5/8	7/16	11	17
8018-11/16	7/16	11	17
8018-3/4	7/16	11	17
8018-13/16	7/16	11	17

Part #	Shank Dia (in)	Flute Length (in)	Overall Length (in)
8018-7/8	7/16	11	17
8018-15/16	7/16	11	17
8018-1	7/16	11	17
8018-1-1/16	7/16	11	17
8018-1-1/8	7/16	11	17
8018-1-1/4	7/16	11	17
8018-1-3/8	7/16	11	17
8018-1-1/2	7/16	11	17



Extensions

Part #	Overall Length (in)	Shank Dia (in)
8700-12	12	1/2
8700-18	18	1/2
8700-24	24	1/2

Part #	Overall Length (in)	Shank Dia (in)
8800-18	18	3/8
8800-24	24	3/8

Fits 7/16" Shank Augers

Fits 5/16" Shank Augers

Power Tool: Handheld Power Drills

Application / Features: General Purpose Boring, Most Types Of Wood, Single Flute

Wood Boring Spade Bits

PROLINE

Series 8001

Part #	Shank Dia (in)	Flute Length (in)
8001-1/4	7/32	6
8001-5/16	7/32	6
8001-3/8	7/32	6
8001-7/16	7/32	6
8001-1/2	7/32	6
8001-9/16	7/32	6
8001-5/8	7/32	6
8001-11/16	7/32	6
8001-3/4	7/32	6

Part #	Shank Dia (in)	Flute Length (in)
8001-13/16	7/32	6
8001-7/8	7/32	6
8001-15/16	7/32	6
8001-1	7/32	6
8001-1-1/8	7/32	6
8001-1-1/4	7/32	6
8001-1-3/8	7/32	6
8001-1-1/2	7/32	6

Set

Part #	Contents
8001-SET	3/8", 1/2", 5/8", 3/4", 7/8", 1"



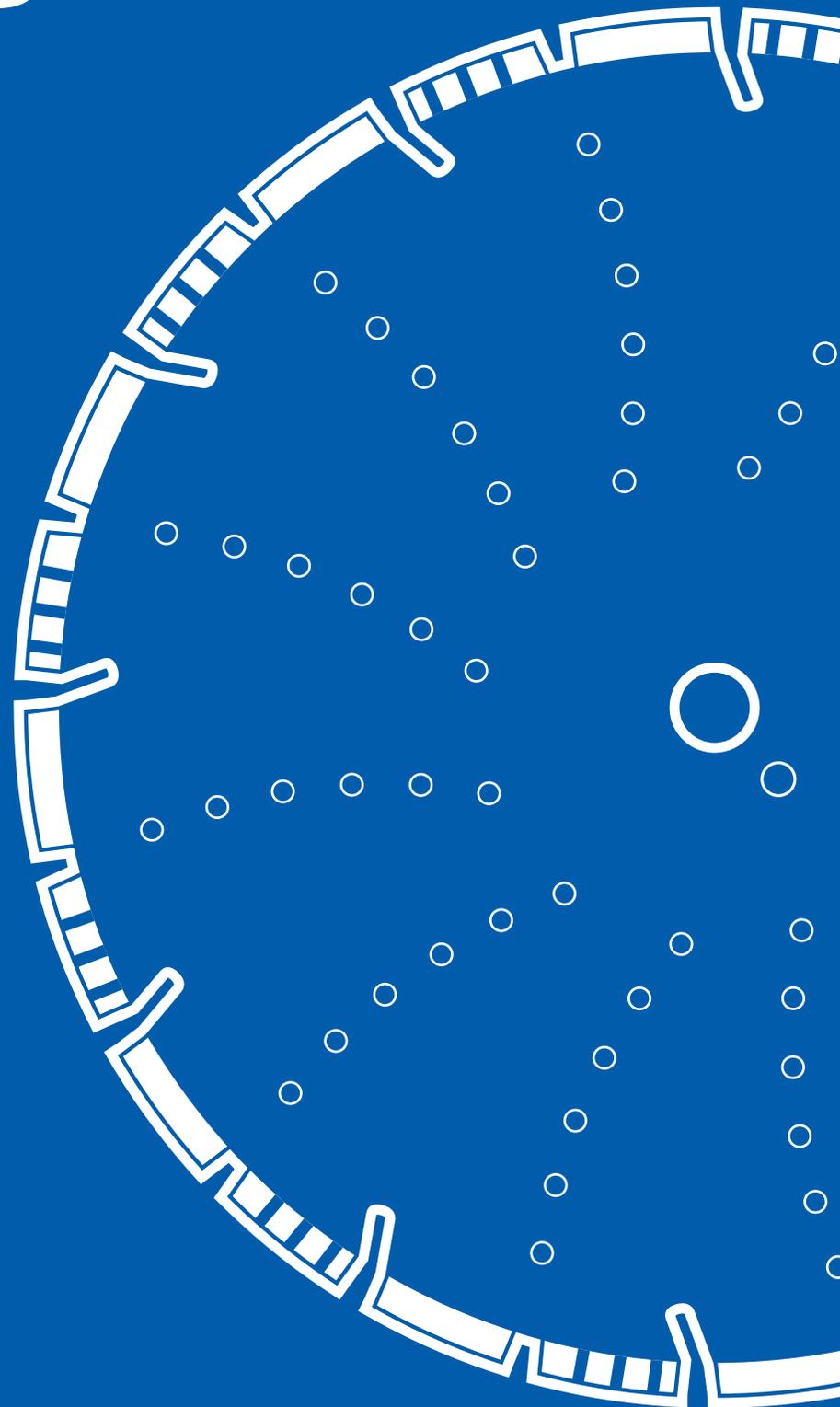
Power Tool: For Use In Power Drills & Drill Presses

Application: Wood & Light To Medium Building Materials, General Purpose Boring

DIAMOND BLADES

**industrial diamonds
sparkle & grind.**

Diamond Blades Are Used In Many Industries. Cut Concrete, Masonry Materials, Tile & Glass Using Champion's Professional Diamond Blades.



Diamond Blades



Turbo Continuous Rim | Concrete, Masonry, Stone | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
660400	4" x .080 x 7/8", 20mm, 5/8"	13,700	Angle Grinder
660412	4-1/2" x .080 x 7/8", 5/8"	13,300	Angle Grinder
660500	5" x .080 x 7/8", 5/8"	12,200	Angle Grinder
660700	7" x .090 x 7/8", 5/8" <>	8,500	Angle Grinder, Circular Saw, Tile Saw
660800	8" x .090, 7/8", 5/8" <>	6,800	Circular Saw, Tile Saw
660900	9" x .095 x 7/8", 5/8"	6,600	Circular Saw, Tile Saw
660100	10" x .094 x 7/8", 5/8" <>	6,100	Tile Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Circular Saw, Table Saw

Application: Run Wet Or Dry - Cut Concrete, Reinforced Concrete, Brick, Block, Pavers, Natural Stone, Roofing Tile, Stucco

Features: 10mm Turbo Continuous Rim, Faster Cutting With Less Chipping, Cooling Holes, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced



Diamond Blades



Segmented | Concrete, Masonry, Brick, Block | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
661400	4" x .080 x 7/8", 20mm, 5/8"	13,700	Angle Grinder
661412	4-1/2" x .080 x 7/8", 5/8"	13,300	Angle Grinder
661500	5" x .080 x 7/8", 5/8"	12,200	Angle Grinder
661700	7" x .090 x 7/8", 5/8" <>	8,500	Angle Grinder, Circular Saw, Tile Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Circular Saw, Table Saw

Application: Run Wet Or Dry - Cut Concrete, Brick, Block, Pavers, Decorative Stone, Roofing Tile, Stucco

Features: 10mm Segmented Rim For Cool Cutting, Faster Cutting With Less Chipping, Reduced Vibration, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced

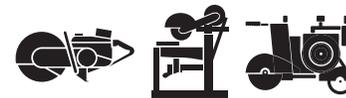


Diamond Blades



Segmented Laser Welded | Concrete, Masonry, Stone | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
662120	12" x .125 x 1", 20mm DPH	6,300	Gas Saw, Stationary Saw, Walk Behind Saw
662140	14" x .125 x 1", 20mm DPH	5,400	Gas Saw, Stationary Saw, Walk Behind Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Power Tool: Gas Saw, Stationary Saw, Walk Behind Saw

Application: Run Wet Or Dry - Cut Concrete, Reinforced Concrete, Concrete Curbs & Walls, Brick, Block, Pavers, Decorative Stone, Roofing Tile, Stucco, Sandstone, Soft Stone, Sidewalk, Demo Work

Features: 12mm Laser Welded Segmented Rim, For Demanding Applications, Faster Cutting & Reduced Vibration, Concentrated Diamond For Consistent Cutting, Tensioned & Balanced



Diamond Blades



Turbo Segmented | Concrete, Masonry, Hard Brick, Pavers | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
664120	12" x .125 x 1", 20mm DPH	6,300	Gas Saw, Stationary Saw, Walk Behind Saw
664140	14" x .125 x 1", 20mm DPH	5,400	Gas Saw, Stationary Saw, Walk Behind Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Power Tool: Gas Saw, Stationary Saw, Walk Behind Saw

Application: Run Wet Or Dry - Cut Hard Concrete, Reinforced Concrete, Concrete Curbs & Walls, Brick, Pavers, Decorative Stone, Sidewalk, Demolition Work, Concrete Pipe

Features: 12mm Turbo Laser Welded Segments, Faster Cutting, Less Chipping, Lower Vibration, Concentrated Diamond For Consistent Cutting, Tensioned & Balanced, Keyhole Wide Gullets For Debris Clearance



Diamond Blades



Segmented Laser Welded | Asphalt, Green Concrete | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
663140	14" x .125 x 1", 20mm DPH	5,400	Gas Saw, Stationary Saw, Walk Behind Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Power Tool: Gas Saw, Stationary Saw, Walk Behind Saw

Application: Run Wet Or Dry - Cut Asphalt, Green Concrete (Soft, Uncured), Abrasive Block, Soft Pavors, Abrasive Natural Stone, Sandstone, Flagstone

Features: 10mm Laser Welded Segmented Rim, Faster Cutting With Less Chipping, Reduced Vibration, Concentrated Diamond For Consistent Cutting, Tensioned & Balanced, Undercut Protection



Diamond Blades



Combo Segmented Laser Welded | Individual Boxes

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
681140	14" x .125 x 1", 20mm DPH	5,400	Walk Behind Saw
681160	16" x .140 x 1", 20mm DPH	4,700	Walk Behind Saw
681180	18" x .165 x 1", 20mm DPH	3,400	Walk Behind Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Power Tool: Walk Behind Saw

Application: Run Wet - Cut Concrete, Reinforced Concrete, Masonry, Brick, Block, Paver Bricks, Hard Brick, Refractory Material, Soft Stone, Sand Stone, Asphalt, Green Concrete

Features: 12mm Turbo Laser Welded Segments, Faster Cutting, Less Chipping, Cooling Holes, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced

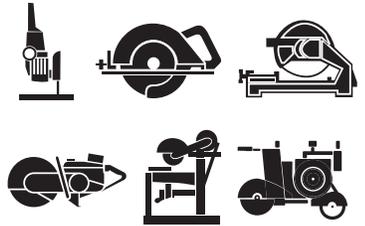


Diamond Blades



Vacuum Brazed Multi Purpose | Demolition & Rescue Blade | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
680412	4-1/2" x .080 x 7/8", 5/8"	13,300	Angle Grinder
680700	7" x .090 x 7/8", 5/8"<>	8,500	Angle Grinder, Circular Saw
680120	12" x .110 x 1", 20mm DPH	6,300	Gas Saw, Stationary Saw, Walk Behind Saw, Chop Saw
680140	14" x .125 x 1", 20mm DPH	5,400	Gas Saw, Stationary Saw, Walk Behind Saw, Chop Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Circular Saw, Gas Saw, Stationary Saw, Walk Behind Saw, Chop Saw

Application: Run Wet Or Dry - Cut Concrete, Brick, Block, Concrete Pipe, Tile, Stone, Sheet Rock, Dry Wall, Stucco, Marble, Granite, Ductile Iron, Plastic, PVC Pipe, Fiberglass, Copper, Roofing, Aluminum, Metal Pipe, Metal Studs, Sheet Metal, Wood

Features: Multi Purpose For Variety Of Applications - Demo Work, Construction, Rescue Missions, Vacuum Brazed Micro Segments, High Diamond Concentration Bonded Directly To Thin Cutting Edge, Narrow Keyhole Gullets For Reduced Chipping & Vibration, Long Life & Increased Productivity



Diamond Blades



Segmented | Economical | Concrete, Masonry, Brick & Block

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
666140	14" x .120 x 1", 20mm DPH	5,400	Gas Saw, Stationary Saw, Walk Behind Saw



DPH = Drive Pin Hole All Diamond Blades Packaged Individually

Packed In Individual Boxes

Power Tool: Gas Saw, Stationary Saw, Walk Behind Saw

Application: Run Wet Or Dry - Cut Concrete, Masonry, Brick, Block

Features: 10mm Segments



Diamond Blades



Continuous Rim | Ceramic Tile & Marble | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
670400	4" x .060 x 7/8", 20mm, 5/8"	13,700	Angle Grinder
670412	4-1/2" x .060 x 7/8", 5/8"	13,300	Angle Grinder
670700	7" x .060 x 5/8" (wet only)	8,500	Tile Saw
670100	10" x .060 x 5/8" (wet only)	6,100	Tile Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Table Cutting Saw

Application: Run Wet Or Dry Depending On Size - Cut Ceramic Tile, Clay Tile, Stone Tile, Decorative Stone, Small Brick, Marble

Features: 10mm Continuous Rim, Faster Cutting With Less Chipping, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced



Diamond Blades



Continuous Rim | Porcelain Tile, Granite | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
671400	4" x .060 x 7/8", 20mm, 5/8"	13,700	Angle Grinder
671412	4-1/2" x .060 x 7/8", 5/8"	13,300	Angle Grinder
671700	7" x .060 x 5/8" (wet only)	8,500	Tile Saw
671100	10" x .060 x 5/8" (wet only)	6,100	Tile Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Table Saw

Application: Run Wet Or Dry Depending On Size - Cut Porcelain Tile, Clay Tile, Stone Tile, Hard Ceramics, Granite

Features: 10mm Continuous Rim, Faster Cutting With Less Chipping, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced

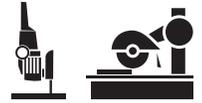


Diamond Blades



Continuous Rim | Glass Tile | Retail Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
672412	4-1/2" x .060 x 7/8", 5/8"	13,300	Angle Grinder
672700	7" x .060 x 5/8"	8,500	Tile Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Table Saw

Application: Run Wet - Cut Glass Tile, Granite Tile, Hard Stone Tile

Features: 7mm Continuous Rim, Faster Cutting With Less Chipping, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced



Diamond Blades



Segmented Tuck Point | Mortar | Display Packaging

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
669412	4-1/2" x .250 x 7/8", 5/8"	13,300	Angle Grinder
669700	7" x .250 x 7/8", 5/8" <>	8,500	Angle Grinder, Circular Saw



All Diamond Blades Packaged Individually

Power Tool: Angle Grinder, Circular Saw

Application: Run Wet Or Dry - Cut Mortar Joints

Features: 10mm Segmented Rim, Concentrated Diamond For Consistent Cutting, Hot Pressed, Tensioned & Balanced



Diamond Cup Wheels



Double Row Segmented

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
665400	4" x 5/8" - 11 (2 Rows of 8)	13,700	Angle Grinder
665500	5" x 5/8" - 11 (2 Rows of 10)	12,200	Angle Grinder
665700	7" x 5/8" - 11 (2 Rows of 14)	8,500	Angle Grinder



Packed In Individual Boxes



Power Tool: Hand Grinder

Application: Run Wet Or Dry - Concrete & Masonry Materials

Features: 5mm Double Row Segmented, High Diamond Concentration

Diamond Cup Wheels



Single Row Segmented Swirl Design

Part #	Dia x Kerf Thick x Arbor, Adapters	Max RPM	Power Tool
667400	4" x 5/8" - 11 (9 Segments)	13,700	Angle Grinder
667500	5" x 5/8" - 11 (18 Segments)	12,200	Angle Grinder
667700	7" x 5/8" - 11 (12 Segments)	8,500	Angle Grinder



Packed In Individual Boxes



Power Tool: Hand Grinder

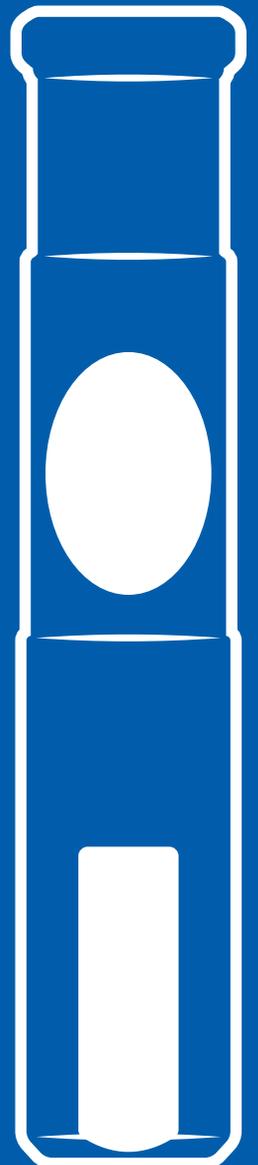
Application: Run Wet Or Dry - Concrete, Masonry Materials, Brick, & Stone

Features: 5mm Single Row Segments, Swirl Layout, High Diamond Concentration

TILE & MULTI-PURPOSE DRILLING

drill holes in hard tile.

Follow Champion's Operating Guidelines To Successfully Drill Holes In Tough Materials Like Porcelain Using The PTC3. The PTC3 Is One Of Our Most Popular Tools Outperforming Competitor Tile Diamond Drills.



Mini Diamond Hole Cutters

PROLINE

Series PTC3 | Porcelain & Hard Tile

Part #	Shank Dia (in)	Application
PTC3-3/16	3/8	Wall Anchors
PTC3-1/4	3/8	Wall Anchors
PTC3-5/16	3/8	Wall Anchors
PTC3-3/8	3/8	Wall Anchors
PTC3-1/2	3/8	Through Holes

Part #	Shank Dia (in)	Application
PTC3-5/8	3/8	Through Holes
PTC3-3/4	3/8	Through Holes
PTC3-1	3/8	Through Holes
PTC3-1-3/8	3/8	Through Holes

Power Tool: Corded Or Cordless Power Drills

Application: Drill Holes In Porcelain Tile (Including Grade 5+), Granite, Marble, Slate, Glass, Travertine, Fiberglass, Ceramic, Cement, Quarry, & Terracota

Drill "Dry" After Single Dip In Any Fluid Prior To Starting The Hole

Drill "Wet" With A Constant Flow Of Water To Extend Tool Life

Features: Industrial Grade Vacuum Brazed Diamond, Hardened Steel Body, Evacuation Slot

Advantage: Tough Drilling Applications, Long Tool Life, Tool Strength, Auto-Slug Ejection



Carbide Tipped Tile Drills

PROLINE

Series PTC | Porcelain & Hard Tile | Spear Head

Part #	Shank Dia (in)	Overall Length (in)
PTC-3/16	3/8	5-3/4
PTC-1/4	3/8	5-3/4

Part #	Shank Dia (in)	Overall Length (in)
PTC-9/32	3/8	5-3/4
PTC-5/16	3/8	5-3/4

Power Tool: Handheld Power Drills

Application: Drill Small Holes In Porcelain Tile, Granite & Marble

Features: Spear Point, Carbide Tipped Point

Advantage: Fast, Accurate Penetration Of Hole, Operator Must Use A Constant Flow Of Water While Drilling



Ceramic Tile Drills



Series CT505 | Ceramic & Glass | Carbide Tipped | Spear Head

Part #	Flute Length (in)	Overall Length (in)
CT505-1/8	7/64	2-1/2
CT505-3/16	5/32	2-1/2
CT505-1/4	7/32	2-1/2
CT505-5/16	1/4	2-3/4
CT505-3/8	5/16	3-1/8

Part #	Flute Length (in)	Overall Length (in)
CT505-7/16	3/8	3-1/2
CT505-1/2	7/16	3-1/2
CT505-9/16	1/2	4
CT505-5/8	9/16	4



Power Tool: Corded Or Cordless Power Drills

Application: Drill Small Diameter Holes In Glass & Ceramic Tile

Use With Constant Flow Of Coolant Or Water

Clear Chips Frequently

Use Light Feed & Steady Pressure For Best Performance

If Possible, Back Material With Wood Or Rubber For Support During Drill Breakthrough

Multi-Purpose Drills



Series CM-MPB | Drill Wood, Metal, Tile

Part #	Shank Dia (in)	Overall Length (in)
CM-MPB-1/8	1/8	2-1/2
CM-MPB-5/32	5/32	2-3/4
CM-MPB-3/16	3/16	3
CM-MPB-3/16X6	3/16	6
CM-MPB-1/4	1/4	4
CM-MPB-1/4X6	1/4	6
CM-MPB-5/16	5/16	4

Part #	Shank Dia (in)	Overall Length (in)
CM-MPB-3/8	3/8	4
CM-MPB-1/2	1/2	6

Sets

Part #	Qty	Contents
CM-MPB-SET5	5 Piece	1/8, 5/32, 3/16, 1/4, 5/16
CM-MPB-SET7	7 Piece	1/8, 5/32, 3/16, 1/4, 5/16, 3/8, 1/2



Power Tool: Handheld Power Drills Or Drill Presses

Application: Masonry, Concrete, Plastics, Wood & Metal

Features: Sharp Carbide Tipped Point

Advantage: Drill Through Multiple Materials With One Drill



Diamond Hole Saws

PROLINE

Series PTC4 | Multi-Purpose

Part #	Dia (in)	Part #	Dia (in)
PTC4-3/4	1/8	PTC4-2	2
PTC4-7/8	7/8	PTC4-2-1/4	2-1/4
PTC4-1	1	PTC4-2-1/2	2-1/2
PTC4-1-1/8	1-1/8	PTC4-3	3
PTC4-1-1/4	1-1/4	PTC4-3-1/4	3-1/4
PTC4-1-3/8	1-3/8	PTC4-3-11/32	3-11/32
PTC4-1-1/2	1-1/2	PTC4-3-1/2	3-1/2
PTC4-1-3/4	1-3/4	PTC4-4	4

Arbors

Part #	Description
PTC4-ARBOR-1	Hex shank arbor for sizes 3/4" thru 1-1/8"
PTC4-ARBOR-2	Hex shank arbor for sizes 1-1/4" thru 4"
PTC4-ARBOR-SDS-1	SDS shank arbor for sizes 3/4" thru 1-1/8"
PTC4-ARBOR-SDS-2	SDS shank arbor for sizes 1-1/4" thru 4"
PTC4-PILOT*	Pilot drill for PTC4 arbors

* Do Not Use Pilot Drill When Drilling Tile



Power Tool: Handheld Power Drills With PTC4 Arbor (Sold Separately)

Application: Drill Large Holes In Hard Tile, Porcelain Tile, Granite, Travertine, Marble, Fiberglass, Brick, Thin Metal, Wood, Plastic

Features: Industrial Grade Vacuum Brazed Diamond, Thin Wall Design, Ejection Slots

Advantage: Drill Through Multiple Materials With One Hole Saw



SURFACE PREPARATION

**other grinding,
finishing, sanding.**

Safe & Easy To Use Solutions For A
Wide Variety Of Applications.



Semi-Flexible Discs



Built-In Backing Pad | Silicon Carbide

4-1/2" x 7/8" - Type 27



Part #	Max RPM	Grit
320016	13,300	16
320024	13,300	24

7" x 7/8" - Type 27



Part #	Max RPM	Grit
322016	8,500	16
322024	8,500	24



All Sizes: Pack QTY = 10, Case QTY = 20

Power Tool: Angle Grinder

Application: Surface Preparation Of Non-Ferrous Metals, Marble, Concrete, Fiberglass, Enamels, Porcelain, & Granite - Easily Removes Coatings, Adhesives, Paint, & Mastics

Features: Spiral Design For Aggressive Grinding, Permits Disc To Run Cooler & Prevent Loading, Vulcanized Fibre Backing, Built-In Backing Pad



Semi-Flexible Discs



Fibre Backing | Silicon Carbide

4-1/2" x 7/8" - Type 27



Part #	Max RPM	Grit
313016	13,300	16
313036	13,300	36
313060	13,300	60
313080	13,300	80

7" x 7/8" - Type 27



Part #	Max RPM	Grit
314016	8,600	16
314036	8,600	36
314060	8,600	60



All Sizes: Pack QTY = 10, Case QTY = 20

Backing Pads

Part #	Dia x Arbor
324045	4-1/2" x 5/8"-11
324007	7" x 5/8"-11



All Sizes: Pack QTY = 1, Case QTY = 10

Application: Backing Pads For Use With Semi-Flexible Discs, Medium Rubber Grinding Pad With Nut

Power Tool: Angle Grinder

Application: Surface Preparation Of Non-Ferrous Metals, Marble, Concrete, Fiberglass, Enamels, Porcelain, & Granite - Easily Removes Coatings, Adhesives, Paint, & Mastics

Features: Spiral Design For Aggressive Grinding, Permits Disc To Run Cooler & Prevent Loading, Vulcanized Fibre Backing

Note: Must Be Used With Backing Pad



Resin Fibre Discs



Ceramic | For High Performance Alloys, High Carbon Steel, Stainless Steel

4-1/2" x 7/8"

Part #	Max RPM	Grit
319024	13,300	24
319036	13,300	36
319060	13,300	60
319080	13,300	80

7" x 7/8"

Part #	Max RPM	Grit
373024	8,600	24
373036	8,600	36
373050	8,600	50
373060	8,600	60
373080	8,600	80



All Sizes: Pack QTY = 25, Case QTY = 100

Power Tool: Angle Grinder

Application: Grind, Strip, De-bur & Polish Steel Alloys, High Carbon Steel, Stainless Steel, Non-Ferrous Metals, & Heat Sensitive Metals

Features: Premium Ceramic Grain, Self-Sharpening, Ceramic Coating For Cool, Fast Cutting, Lasts Approximately 50% Longer Than Zirconia, Longer Life & Minimal Loading, Does Not Stain Or Burn Material, Contaminant Free (Prevents Stainless Steel From Rusting)

Note: Must Be Used With Backing Pad
See Page 249 For Backing Pads



Resin Fibre Discs



Zirconia | For Steel, Stainless Steel, Non-Ferrous Metals

4-1/2" x 7/8"

Part #	Max RPM	Grit
307024	13,300	24
307036	13,300	36
307050	13,300	50
307060	13,300	60
307080	13,300	80

5" x 7/8"

Part #	Max RPM	Grit
308024	12,200	24
308036	12,200	36
308050	12,200	50
308060	12,200	60
308080	12,200	80



7" x 7/8"

Part #	Max RPM	Grit
309024	8,600	24
309036	8,600	36
309050	8,600	50
309060	8,600	60

All Sizes: Pack QTY = 25, Case QTY = 100

Power Tool: Angle Grinder

Application: Grind, Strip, De-bur & Polish Steel Alloys, Stainless Steel, & Non-Ferrous Metals

Features: Vulcanized Fibre Backing, Resin On Resin Bond, Cool Cutting, Long Life, Excellent Durability, High Stock Removal, Resistant To Heat & Moisture, Contaminant Free (Prevents Stainless Steel From Rusting)

Note: Must Be Used With Backing Pad
See Page 249 For Backing Pads



Resin Fibre Discs

Aluminum Oxide | For Metal, Wood, Fiberglass, Plastic



4" x 5/8"

Part #	Max RPM	Grit
300016	15,300	16
300024	15,300	24
300036	15,300	36
300080	15,300	80
300120	15,300	120

4-1/2" x 7/8"

Part #	Max RPM	Grit
301016	13,300	16
301024	13,300	24
301036	13,300	36
301050	15,300	50
301060	13,300	60
301080	13,300	80
301100	13,300	100
301120	13,300	120

5" x 7/8"

Part #	Max RPM	Grit
302016	12,200	16
302024	12,200	24
302036	12,200	36
302050	12,200	50
302060	12,200	60
302080	12,200	80
302100	12,200	100

6" x 7/8"

Part #	Max RPM	Grit
303016	10,000	16
303024	10,000	24
303036	10,000	36
303060	10,000	60

7" x 7/8"

Part #	Max RPM	Grit
304016	8,600	16
304024	8,600	24
304036	8,600	36
304050	8,600	50
304060	8,600	60
304080	8,600	80
304100	8,600	100
304120	8,600	120

9-1/8" x 7/8"

Part #	Max RPM	Grit
305016	6,600	16
305024	6,600	24
305036	6,600	36

All Sizes: Pack QTY = 25, Case QTY = 100

Power Tool: Angle Grinder

Application: Economical Choice For All-Purpose Sanding & Grinding
Grind, Strip, De-bur & Polish Metal, Wood, Fiberglass, Plastic, Composites.
Fibre Discs Are Especially Ideal For Wood.

Features: Vulcanized Fibre Backing, Resin On Resin Bond, Excellent Durability

Note: Must Be Used With Backing Pad



Standard Backing Pads

Part #	Dia x Arbor
325045	4-1/2 x 5/8-11
325005	5 x 5/8-11
325007	7 x 5/8-11

All Sizes: Pack QTY = 1, Case QTY = 10

Turbo Backing Pads

Part #	Dia x Arbor
326438	4 x 3/8-24
326004	4 x M10 x 1.25
326045	4-1/2 x 5/8 x 11
326005	5 x 5/8-11
326007	7 x 5/8-11



Standard



Turbo

Standard: Smooth Style For Most Applications

Turbo: Raised Ribs Allow Cool Air Flow Between Backing Plate & Disc To Extend Disc Life

Quick Change Discs

Type R

Ceramic Type R - 2"

Part #	Max RPM	Grit	Pack	Case
3892036	25,000	36	50	300
3892060	25,000	60	50	300
3892080	25,000	80	50	300

Ceramic Type R - 3"

Part #	Max RPM	Grit	Pack	Case
3893036	20,000	36	25	300
3893060	20,000	60	25	300
3893080	20,000	80	25	300



Zirconia Type R - 2"

Part #	Max RPM	Grit	Pack	Case
3932024	25,000	24	50	300
3932036	25,000	36	50	300
3932050	25,000	50	50	300
3932060	25,000	60	50	300
3932080	25,000	80	50	300
3932120	25,000	120	50	300

Zirconia Type R - 3"

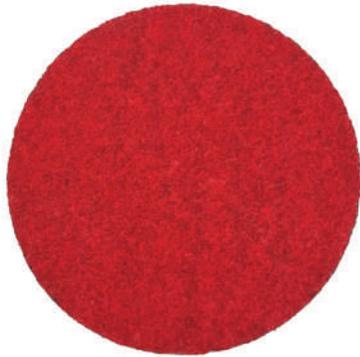
Part #	Max RPM	Grit	Pack	Case
3933024	20,000	24	25	300
3933036	20,000	36	25	300
3933050	20,000	50	25	300
3933060	20,000	60	25	300
3933080	20,000	80	25	300
3933120	20,000	120	25	300

Aluminum Oxide Type R - 2"

Part #	Max RPM	Grit	Pack	Case
3902024	25,000	24	50	300
3902036	25,000	36	50	300
3902050	25,000	50	50	300
3902060	25,000	60	50	300
3902080	25,000	80	50	300
3902100	25,000	100	50	300
3902120	25,000	120	50	300
3902180	25,000	180	50	300
3902240	25,000	240	50	300
3902320	25,000	320	50	300

Aluminum Oxide Type R - 3"

Part #	Max RPM	Grit	Pack	Case
3903024	20,000	24	25	300
3903036	20,000	36	25	300
3903050	20,000	50	25	300
3903060	20,000	60	25	300
3903080	20,000	80	25	300
3903100	20,000	100	25	300
3903120	20,000	120	25	300
3903180	20,000	180	25	300
3903240	20,000	240	25	300



Ceramic



Zirconia



Aluminum Oxide



Type R

Power Tool: Power Drill, Air Grinder

Ceramic: Grind, Polish, Clean & Finish Stainless Steel, High Performance Alloys, High Carbon Steel, Non-Ferrous Metals, & Heat Sensitive Materials. Contaminant Free (Prevents Stainless Steel From Rusting)

Zirconia: Grind, Polish, Clean & Finish Stainless Steel, Steel Alloys & Non-Ferrous Metals. Contaminant Free (Prevents Stainless Steel From Rusting)

Aluminum Oxide: General Purpose - Grind, Polish, Clean & Finish Metals, Wood, & Fiberglass

Features: Two Ply Cloth Construction For Greater Durability, Threaded Male Hub For Quick Mounting, Good For Flat Or Contoured Surfaces For Hard To Reach Areas.

Note: Must Be Used With Backing Pad

Backing Pads For Quick Change Discs - Type R

Part #	Size	Max RPM	Pack	Case
392002	2"	50,000	1	10
392003	3"	20,000	1	10

Application: Backing Pads For Use With Quick Change Discs, For Use With Power Drill Or Die Grinder



Non-Woven Quick Change Discs



Aluminum Oxide | Type R | For Ferrous Metals, Stainless Steel

Type R - 2"

Part #	Max RPM	Color
3912BLUEF	25,000	Blue
3912MARNM	25,000	Maroon
3912BRWNC	25,000	Brown

Type R - 2": Pack QTY = 50, Case QTY = 300

Type R - 3"

Part #	Max RPM	Color
3913BLUEF	20,000	Blue
3913MARNM	20,000	Maroon
3913BRWNC	20,000	Brown

Type R - 3": Pack QTY = 25, Case QTY = 150



Blue: Fine (Grit 180 - 240g)



Maroon: Medium (Grit 80 - 120g)



Brown: Coarse (Grit 60g)



Front



Back

Power Tool: Power Drill, Die Grinder

Application: Surface Conditioning Of Ferrous Metals, Non-Ferrous Metals, Stainless Steel, Steel Alloys, & Heat Sensitive Metals

Features: Non-Woven Material Impregnated With Aluminum Oxide Grain For Durability & Resists Loading, 2 Ply Cloth Construction, Threaded Male Hub, Fast Mounting, Good For Flat Or Contoured Surfaces & Hard To Reach Areas

Note: Must Be Used With Backing Pad

Surface Preparation Wheels



Non-Woven | Type 27



4-1/2" x 7/8"



Part #	Max RPM	Color
396GRY	13,300	Grey
396MRN	13,300	Maroon
396BLK	13,300	Black

4-1/2" x 5/8" - 11



Part #	Max RPM	Color
396HGRY	13,300	Grey
396HMRN	13,300	Maroon
396HBLK	13,300	Black

All Sizes: Pack QTY = 10, Case QTY = 40



Grey: Ultra-Fine / Silicon Carbide
For Polishing Metals, Marble, Aluminum & Wood



Maroon: Fine / Aluminum Oxide
Clean, Blend & Polish Metals & Stainless Steel



Black: X-Coarse / Silicon Carbide
For Heavy Duty Stripping Of Rust, Paint, Epoxy, Fiberglass, & Stone



Front



Back

Power Tool: Angle Grinder

Application: Available In Grey, Maroon, & Black Options For A Variety Of Applications From Stripping To Polishing

Features: Non-Woven Synthetic Fiber Impregnated With Silicon Carbide Or Aluminum Oxide Grain, Will Not Rust Or Oxidize, Designed To Prevent Snagging & Tearing, Can Use With Water Or Solvents, PVC Plastic Backing For Stronger Performance

Hand Pads



Non-Woven | Industrial Strength

6" x 9"

Part #	Color	Pads / Box	Pack	Case
285WHT	White	20	1 Box	3 Boxes
285GRY	Grey	20	1 Box	3 Boxes
285MRN	Maroon	20	1 Box	3 Boxes
285GRN	Green	20	1 Box	3 Boxes
285BLK	Black	20	1 Box	3 Boxes
285TAN	Tan	10	1 Box	4 Boxes



White: Non-Abrasive
For Polishing & Light Cleaning



Grey: Ultra Fine / Silicon Carbide
For Cleaning & Finishing



Maroon: Very Fine / Aluminum Oxide
For Basic Cleaning & Finishing



Green: Fine / Industrial-Fine Aluminum Oxide
For Removing Buildup Of Rust Or Corrosion



Black: Medium / Aluminum Oxide
For Heavy-Duty Cleaning Or Fast Action Finishing



Tan: Coarse / Aluminum Oxide
For Stainless Steel, Aluminum, & For Stripping



Application: Cleaning & Conditioning Surfaces By Hand

Features: Unlike Steel Wool, Hand Pads Are Non-Metallic, Variety Of Colors For Different Applications, Prevent Snagging & Tearing, Washable & Reusable, Does Not Produce "After-Rust" On Surfaces, Greater Durability, Longer Life, Can Be Used With Water Or Solvents

Utility Pads



Non-Woven

4-1/2" x 9-1/2" x 1"

Part #	Color	Pack	Case
284WHT	White	30	180
284BRN	Brown	30	180



White: Light Duty / Non-Abrasive



Brown: Heavy Duty, Abrasive



Application: Cleaning & Conditioning Surfaces By Hand

Features: Variety Of Colors For Different Applications, Prevent Snagging & Tearing, Can Be Used With Water Or Solvents, Washable & Reusable

Shop Rolls



Aluminum Oxide Cloth | For Metal, Wood, Fiberglass

1" x 50 YD

Part #	Grit
380060	60
380080	80
380100	100
380120	120
380150	150
380180	180
380220	220
380240	240
380320	320
380400	400

All Sizes: Pack QTY = 1,
Case QTY = 10

1-1/2" x 50 YD

Part #	Grit
381040	40
381050	50
381060	60
381080	80
381100	100
381120	120
381150	150
381180	180
381220	220
381240	240
381320	320
381400	400
381600	600

2" x 50 YD

Part #	Grit
382040	40
382050	50
382060	60
382080	80
382100	100
382120	120
382150	150
382180	180
382220	220
382240	240
382320	320
382400	400
382600	600

Application: Hand Sanding, De-burring, Cleaning, & Polishing Of Metal, Wood, & Fiberglass

Features: Aluminum Oxide Grain, Resin On Resin Bond, Flexible Cloth Backing, Strong & Long-Lasting, Long Life, Material Easily Torn To Desired Length, Convenient Dispenser Box For Easy Handling



Plumber Rolls



Waterproof | For Ferrous Metals, Non-Ferrous Metals

Cloth - Aluminum Oxide - 1-1/2" x 25 YD

Part #	Grit	Pack	Case
383125120	120	1	10

Sandscreen - Silicon Carbide - 1-1/2" x 25 YD

Part #	Grit	Pack	Case
386125120	120	1	10

Aluminum Oxide: Sanding Of Ferrous & Non-Ferrous Metals

Silicon Carbide: Sanding Of Ferrous, Non-Ferrous Metals & Ceramic

Features: Waterproof For Long Life - Wash & Reuse, Grain On Both Side Of Mesh Cloth For Fast Cutting, Prevents Loading



Utility Rolls



Silicon Carbide | For Wood, Fiberglass, Paint, Plastic, Stone, Glass

10" x 50 YD

Part #	Grit	Pack	Case
41110060	60	1	3
41110080	80	1	3
41110100	100	1	3
41110120	120	1	3

Application: Sanding Of Wood, Fiberglass, Paint, Plastic, Stone, Glass



Hook & Loop Discs



Heavyweight Aluminum Oxide | For Wood, Metal, Plastic, Fiberglass

5" - 5 Dust Holes

Part #	Grit / Wt	Dust Holes
5785040	40F	5
5785060	60F	5
5785080	80F	5
5785100	100E	5
5785120	120E	5
5785150	150E	5
5785180	180E	5
5785220	220E	5

5" - 8 Dust Holes

Part #	Grit / Wt	Dust Holes
5788040	40F	8
5788060	60F	8
5788080	80F	8
5788100	100E	8
5788120	120E	8
5788150	150E	8
5788180	180E	8
5788220	220E	8
5788320	320E	8



6" - 6 Dust Holes

Part #	Grit / Wt	Dust Holes
5806040	40F	6
5806060	60F	6
5806080	80F	6
5806100	100E	6
5806120	120E	6
5806150	150E	6
5806180	180E	6
5806220	220E	6

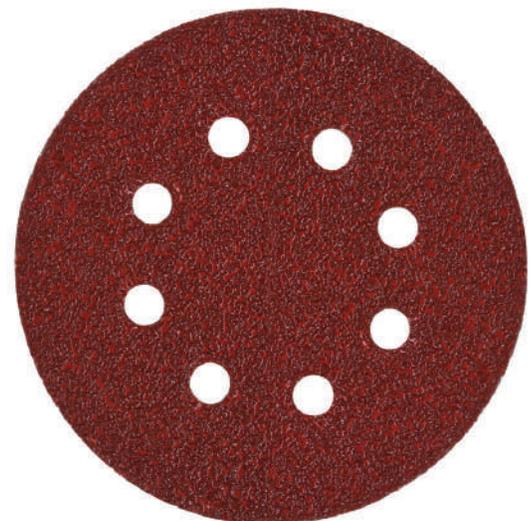
All Sizes: Pack QTY = 50, Case QTY = 500

Power Tool: Orbital Sander

Application: For Finishing Wood, Metal, Plastic, & Fiberglass

Features: Red Heavyweight Aluminum Oxide Grain, Heavy E & F Weight Paper For Tough Jobs, Resin On Resin Bond For Extra Long Life, Uniform Surface Finish & High Stock Removal

Note: Must Be Used With Backing Pad



Hook & Loop Discs



Silicon Carbide | Waterproof | For Stone, Glass, Solid Surfaces



5" - No Dust Holes

Part #	Grit / Wt	Pack	Case
521040	40E	50	500
521080	80E	50	500
521120	120E	50	500
521220	220E	50	500
521320	320E	50	500
521400	400E	50	500
521600	600C	50	500



Power Tool: Orbital Sander

Application: For Polishing Marble, Granite, Glass, Stone & Solid Surfaces In Wet Or Dry Application

Features: Waterproof, Silicon Carbide Grain, Resin On Resin Bond For Long Life

Note: Must Be Used With Backing Pad

Heavy Duty Backing Pads for Hook & Loop Discs

Part #	Size	Pack	Case
329005	5" x 5/8" - 11	1	10
329007	7" x 5/8" - 11	1	10



Description: Firm, Molded Urethane For Medium To Heavy Stock Removal

Backing Pads For Hook & Loop Discs

Part #	Size (in)	Holes	Pack	Case
328005	5" x 5/16" - 24	No Holes	1	10
328055	5" x 5/16" - 24	5 Holes	1	10
328058	5" x 5/16" - 24	8 Holes	1	10
328006	6" x 5/16" - 24	No Holes	1	10
328066	6" x 5/16" - 24	6 Holes	1	10



Description: Medium-edge Pad For Flat & Curved Surfaces For Use With Orbital Sanders And Hook & Loop Discs

PSA Discs



Heavyweight Aluminum Oxide | For Wood, Metal, Plastic, Fiberglass

5" - No Dust Holes - With Tabs



Part #	Grit / Wt	Dust Holes	Pack	Case
5790040	40E	No	100	1000
5790060	60E	No	100	1000
5790080	80E	No	100	1000
5790100	100E	No	100	1000
5790120	120E	No	100	1000
5790150	150E	No	100	1000
5790180	180E	No	100	1000
5790220	220E	No	100	1000
5790320	320E	No	100	1000

Power Tool: Orbital Sander

Application: For Finishing Wood, Metal, Plastic, & Fiberglass

Features: Red Heavyweight Aluminum Oxide Grain, Heavy E-Weight Paper For Tough Jobs, Resin On Resin Bond For Extra Long Life, Uniform Surface Finish & High Stock Removal

Note: Must Be Used With Backing Pad



PSA Discs



Aluminum Oxide | Cloth | For Wood, Metal, Plastic, Fiberglass

12" - No Dust Holes

Part #	Grit / Wt	Pack	Case
356036	36	25	250
356060	60	25	250
356080	80	25	250



Power Tool: Orbital Sander

Application: For Finishing Wood, Metal, Plastic, & Fiberglass. All Purpose For A Variety Of Applications

Features: Aluminum Oxide Grain Provides Consistent Cutting, Heavyweight Cloth Backing Is Resistant To Heat & Moisture, Resin On Resin Bond For Long Life

Note: Must Be Used With Backing Pad



Backing Pads For PSA Discs

Part #	Size	Holes	Pack	Case
327005	5" x 5/16" - 24	No Holes	1	10
327006	6" x 5/16" - 24	No Holes	1	10



Description: For Use With Orbital Sanders & PSA Discs, Medium Edge For Flat & Curved Surfaces

Sanding Sheets (9 x 11)



Aluminum Oxide - For Metal, Wood

Part #	Grit / Wt	Weight	Pack	Case
202080A	80A	A-Weight	50	500
202100A	100A	A-Weight	100	1000
202120A	120A	A-Weight	100	1000
202150A	150A	A-Weight	100	1000
202180A	180A	A-Weight	100	1000
202220A	220A	A-Weight	100	1000
202240A	240A	A-Weight	100	1000
202280A	280A	A-Weight	100	1000
202320A	320A	A-Weight	100	1000
202100C	100C	C-Weight	100	1000
202120C	120C	C-Weight	100	1000
202150C	150C	C-Weight	100	1000
202036D	36D	D-Weight	50	500
202040D	40D	D-Weight	50	500
202050D	50D	D-Weight	50	500
202060D	60D	D-Weight	50	500
202080D	80D	D-Weight	50	500

Aluminum Oxide (Contractor Packs)

Part #	Grit / Wt	Weight
230080	80D	D-Weight
230100	100C	C-Weight
230120	120C	C-Weight
230150	150C	C-Weight
230220	220A	A-Weight

Contractor Packs: 25 Sheets Per Pack

Pack QTY = 1, Case QTY = 10

Garnet Paper - For Wood

Part #	Grit / Wt	Weight	Pack	Case
205080A	80A	A-Weight	50	500
205100A	100A	A-Weight	100	1000
205120A	120A	A-Weight	100	1000
205150A	150A	A-Weight	100	1000
205180A	180A	A-Weight	100	1000
205220A	220A	A-Weight	100	1000
205240A	240A	A-Weight	100	1000
205100C	100C	C-Weight	100	1000
205120C	120C	C-Weight	100	1000
205150C	150C	C-Weight	100	1000
206036D	36D	D-Weight	50	500
206040D	40D	D-Weight	50	500
206050D	50D	D-Weight	50	500
206060D	60D	D-Weight	50	500
206080D	80D	D-Weight	50	500



Aluminum Oxide



Garnet Paper

Aluminum Oxide: For Sanding Wood, Metal, Paint, Plastic, & Fiberglass. Sharp & Durable For A Consistent Surface Finish. Resin On Resin Bond. Open Coat. Electrostatic Coating. High Quality Latex Backed Paper.

Garnet Paper: For Sanding Wood. Soft & Sure Cutting Leaving A Fine Smooth, Finish. Resin On Resin Bond. Open Coat. High Quality Latex Backed Paper

Sanding Sheets (9 x 11)

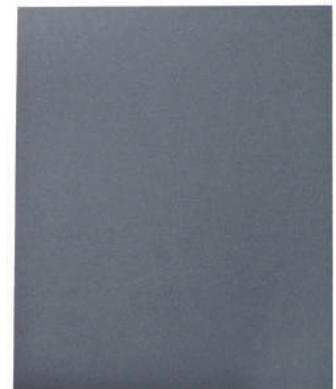


Silicon Carbide - Waterproof

Part #	Grit / Wt	Weight	Pack	Case
220220A	220A	A-Weight	50	1000
220240A	240A	A-Weight	50	1000
220280A	280A	A-Weight	50	1000
220320A	320A	A-Weight	50	1000
220360A	360A	A-Weight	50	1000
220400A	400A	A-Weight	50	1000
220500A	500A	A-Weight	50	1000
220600A	600A	A-Weight	50	1000
220800A	800A	A-Weight	50	1000
2201000A	1000A	A-Weight	50	1000
2201200A	1200A	A-Weight	50	1000
2201500A	1500A	A-Weight	50	1000
2202000A	2000A	A-Weight	50	1000
220060C	60C	C-Weight	50	500
220080C	80C	C-Weight	50	500
220100C	100C	C-Weight	50	1000
220120C	120C	C-Weight	50	1000
220150C	150C	C-Weight	50	1000
220180C	180C	C-Weight	50	1000
220220C	220C	C-Weight	50	1000
220240C	240C	C-Weight	50	1000
220320C	320C	C-Weight	50	1000
220400C	400C	C-Weight	50	1000
220500C	500C	C-Weight	50	1000
220600C	600C	C-Weight	50	1000
220800C	800C	C-Weight	50	1000
2201000C	1000C	C-Weight	50	1000
2201200C	1200C	C-Weight	50	1000
2201500C	1500C	C-Weight	50	1000
2202000C	2000C	C-Weight	50	1000

Silicon Carbide - Finishing

Part #	Grit / Wt	Weight	Pack	Case
240180A	180A	A-Weight	100	1000
240220A	220A	A-Weight	100	1000
240240A	240A	A-Weight	100	1000
240320A	320A	A-Weight	100	1000
240400A	400A	A-Weight	100	1000
240080C	80C	C-Weight	50	500
240100C	100C	C-Weight	100	1000
240120C	120C	C-Weight	100	1000
240150C	150C	C-Weight	100	1000



Waterproof



Finishing

Application: For Sanding Paint, Body Fillers, Lacquers, Glass, Metal, Stone & Marble

Waterproof: Silicon Carbide Grain For Sharp Cutting & A Very Fine Finish, Resin On Resin Bond For Long Life, Electrostatic Coating, High Quality Latex Backed Paper, Best When Used With Water Or Lubricant

Finishing: Silicon Carbide Grain For Fast Cutting & Excellent Finish, Open Coat, Resin On Resin Bond For Long Life, High Quality Latex Backed Paper, Stearated To Prevent Loading, Electrostatic Coating

Sanding Cloth (9 x 11)



Aluminum Oxide Cloth - For Metal, Wood

Part #	Grit / Wt	Pack	Case
225036	36X	50	500
225040	40X	50	500
225050	50X	50	500
225060	60X	50	500
225080	80X	50	500
225100	100X	50	500
225120	120X	50	500
225150	150X	50	500
225180	180X	50	500
225220	220X	50	500
225240	240X	50	500

Emery Cloth - For Metal

Part #	Grade	Pack	Case
215001	Fine	50	500
215002	Medium	50	500
215003	Coarse	50	500



Aluminum Oxide



Emery

Aluminum Oxide Cloth: For Sanding Metal & Wood. Heavy Duty X-Weight Cloth Backing, Electrostatic Coating, High Performance & Long Life.

Emery Cloth: For Sanding Metal. Natural Emery Grain Is Durable Yet Soft For Contoured Shapes & Good For General Purpose Sanding, Flexible Cotton Backing, Electrostatic Coating, Easily Removes Rust, Paint & Scale From Metal.

Sanding Sponges



Flexible – 3-7/8" x 2-5/8" x 1"

Part #	Grade	Grit	Packaging	Pack	Case
280FFIB	Fine	220	Bulk	-	100
280FFMB	Fine / Medium	220 / 120	Bulk	-	100
280FMEB	Medium	120	Bulk	-	100
280FMCB	Medium / Coarse	120 / 80	Bulk	-	100

Detail Angled – 4-7/8" x 3-1/2" x 1"

Part #	Grade	Grit	Packaging	Pack	Case
282AFI	Fine	220	Retail	12	84
282AME	Medium	120	Retail	12	84
282AFIB	Fine	220	Bulk	-	100
282AMEB	Medium	120	Bulk	-	100

Dual Angled – 4-7/8" x 3-1/4" x 1"

Part #	Grade	Grit	Packaging	Pack	Case
277DFMB	Fine / Medium	220 / 120	Bulk	-	100

Extra Large – 9" x 3-5/16" x 1"

Part #	Grade	Grit	Packaging	Pack	Case
278LFI	Fine	220	Retail	6	72
278LFM	Fine / Medium	220 / 120	Retail	6	72



Retail



Application: Ideal For Use On Drywall, Plaster, Wood, Metal, & Paint - For Use On Contoured Or Flat Surface Applications - Including Light Stock Removal, Sanding Sealer & Wash Coats, & Primer Or Drywall Touch-Ups

Features: Durable Aluminum Oxide Grain, Washable & Reusable For Longer Life, Foam Backing Allows Optimum Pressure Distribution To Prevent Sanding Through Surfaces, Angled Sponges Are Good For Hard To Reach Corners & Crevices

Drywall Sanding Sheets



Silicon Carbide Grain

4-3/16" x 11"



Part #	Grit / Wt	Pack	Case
245080	80D	100	1000
245100	100D	100	1000
245120	120D	100	1000
245150	150D	100	1000
245180	180D	100	1000
245220	220D	100	1000

Application: Ideal For Sanding Drywall, Plaster, Filler & Paint

Features: Silicon Carbide Grain, Open Coat To Reduce Loading, More Economical Choice Compared To Sandscreen Sheets



Drywall Sandscreen Sheets



Silicon Carbide Grain

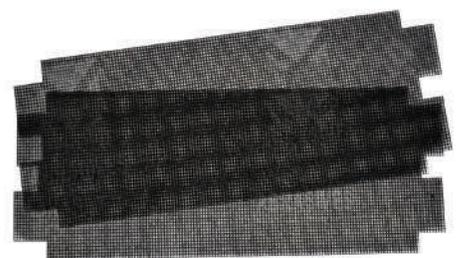
4-1/8" x 11"



Part #	Grit	Pack	Case
250080	80	25	250
250100	100	25	250
250120	120	25	250
250150	150	25	250
250180	180	25	250
250220	220	25	250

Application: Ideal For Sanding Drywall, Plaster, Filler, & Paint

Features: Silicon Carbide Grain, Open Coat To Reduce Loading, Screens Can Be Washed & Reused For Longer Life



Drywall Discs

Aluminum Oxide Grain | Hook & Loop



9"

Part #	Grit / Wt	Pack	Case
256080	80	25	100
256100	100	25	100
256120	120	25	100
256150	150	25	100
256220	220	25	100

Tools: Porter Cable 7800 Or Radius 360 Degree Drywall Sander

Application: Ideal For Use On Drywall, Compound, Filler, Removing Textures, & Wallpaper Residue

Features: Aluminum Oxide Grain, Hook & Loop Backing For Use With A Reusable Pad, Sands Three Times Faster Than By Hand, Eliminates Swirl Marks



Sanding Belts



Aluminum Oxide | For Wood, Metal, Plastic, Composites

3" x 18"

Part #	Grit / Wt	Pack	Case
105040	40X	10	100
105050	50X	10	100
105060	60X	10	100
105080	80X	10	100
105100	100X	10	100
105120	120X	10	100

3" x 21"

Part #	Grit / Wt	Pack	Case
106040	40X	10	100
106050	50X	10	100
106060	60X	10	100
106080	80X	10	100
106100	100X	10	100
106120	120X	10	100



3" x 24"

Part #	Grit / Wt	Pack	Case
107040	40X	10	100
107050	50X	10	100
107060	60X	10	100
107080	80X	10	100
107100	100X	10	100
107120	120X	10	100

4" x 24"

Part #	Grit / Wt	Pack	Case
110036	36X	10	100
110040	40X	10	100
110050	50X	10	100
110060	60X	10	100
110080	80X	10	100
110100	100X	10	100
110120	120X	10	100

6" x 48"

Part #	Grit / Wt	Pack	Case
112040	40X	5	50
112050	50X	5	50
112060	60X	5	50
112080	80X	5	50
112100	100X	5	50
112120	120X	5	50

6" x 89"

Part #	Grit / Wt	Pack	Case
121689060	60X	10	20
121689080	80X	10	20
121689100	100X	10	20
121689120	120X	10	20

Power Tool: Portable Electric Belt Sander

Application: For Stock Removal, Sanding Or Finishing Wood, Metal, Plastic, Or Composites

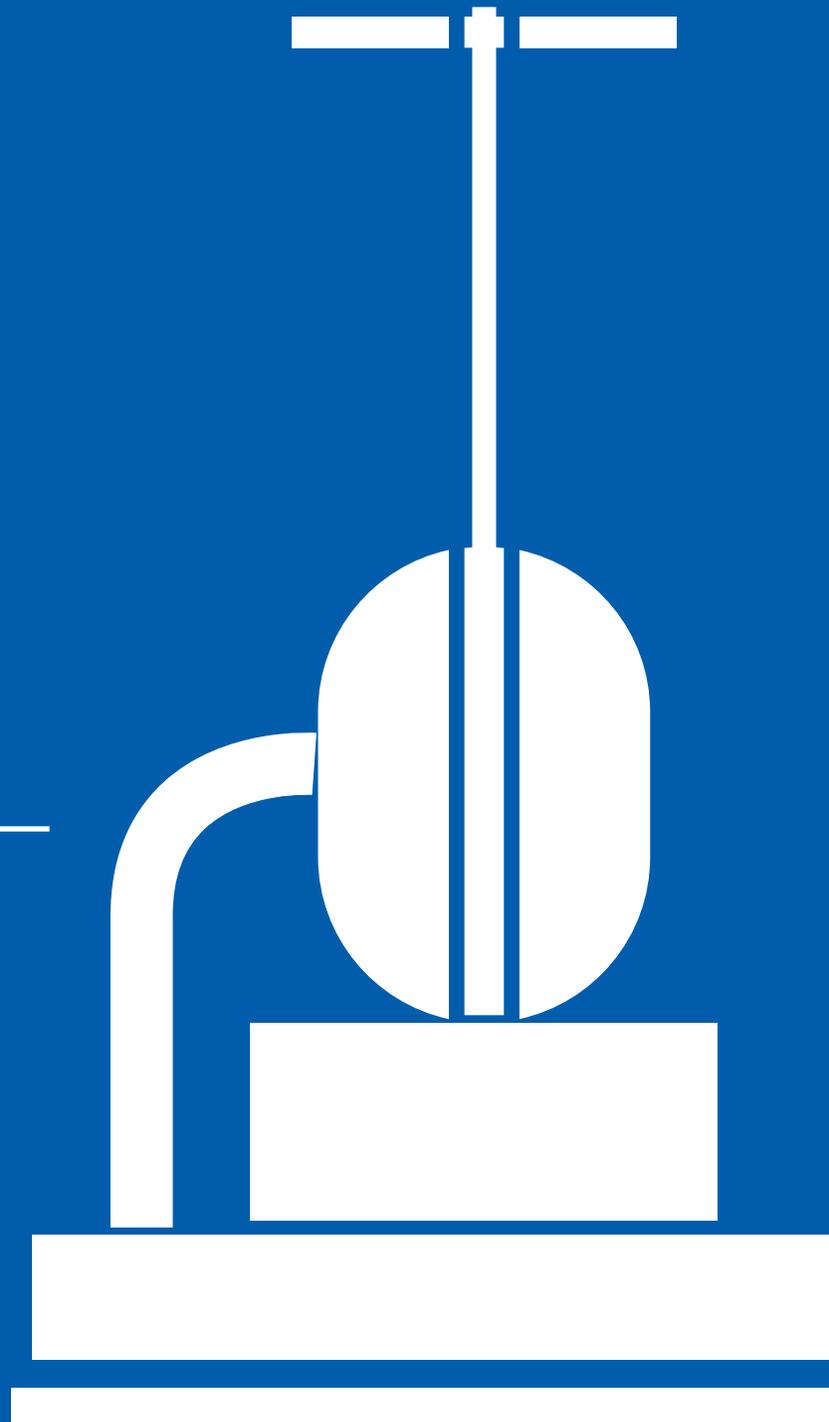
Features: Aluminum Oxide Grain For Uniform Finish & Consistent Performance, Resin On Resin Bond For Longer Life, X-Weight Cloth Backing



FLOOR SANDING

**ideal for maintenance
& finishing.**

Sanding Pads, Belts, Discs & Sheets
For Power Sanders.



Floor Sanding Rolls



Zirconia | For Hardwood Floors

8" x 25 YD

Part #	Grit / Wt	Pack
402024	24X	1
402036	36X	1
402040	40X	1
402050	50X	1
402060	60X	1
402080	80X	1
402100	100X	1
402120	120X	1

12" x 25 YD

Part #	Grit / Wt	Pack
404024	24X	1
404036	36X	1
404040	40X	1
404050	50X	1
404060	60X	1
404080	80X	1
404100	100X	1
404120	120X	1



Power Tool: Floor Sander

Application: For Sanding Hardwood Floors

Features: Highest Quality Zirconia Grain Offers Extreme Flexibility & Outstanding Durability, Resin On Resin Bond For Longer Life, Extra Heavy X-Weight Cloth Backing, Most Popular Flooring Abrasive, Excellent Abrasive For Heavy Stock Removal



Floor Sanding Rolls



Silicon Carbide | For Hardwood Floors, Concrete



8" x 50 YD - Paper

Part #	Grit / Wt	Pack
400024	24X	1
400036	36X	1
400040	40X	1
400050	50X	1
400060	60X	1
400080	80X	1
400100	100X	1
400120	120X	1

8" x 50 YD - Cloth

Part #	Grit / Wt	Pack
400450016	16X	1
400450020	20X	1

Power Tool: Floor Sander

Application: For Sanding Hardwood Floors, Concrete

Features: Silicon Carbide Grain Provides Consistent Performance At A Competitive Price, Resin On Resin Bond For Longer Life, Extra Heavy X-Weight Cloth Backing, High Tear Resistance, Popular In Rental Market



Floor Sanding Belts



For Hardwood Floors, Concrete

Zirconia – 7-7/8 x 29-1/2"

Part #	Grit / Wt	Pack	Case
437024	24X	10	20
437036	36X	10	20
437040	40X	10	20
437060	60X	10	20
437080	80X	10	20
437100	100X	10	20
437120	120X	10	20



Silicon Carbide – 7-7/8 x 29-1/2"

Part #	Grit / Wt	Pack	Case
435016	16X	10	20
435024	24X	10	20
435036	36X	10	20
435060	60X	10	20
435080	80X	10	20
435100	100X	10	20

Silicon Carbide – 8 x 19"

Part #	Grit / Wt	Pack	Case
436819016	16X	10	20
436819024	24X	10	20
436819036	36X	10	20
436819040	40X	10	20
436819050	50X	10	20
436819060	60X	10	20
436819080	80X	10	20
436819100	100X	10	20

Belt Machine Guide

Belt Size	Machine
7-7/8" x 29-1/2"	Lagler-Hummel, Prosand, Galaxy 2000
8" x 19"	Clarke EZ-8

Power Tool: Portable Electric Floor Sander

Zirconia: For Sanding Of Hardwood Floors. Highest Quality Zirconia Grain For Outstanding Durability, Resin On Resin Bond For Longer Life, Finger Joint To Prevent Scratches, Extra Heavy X-Weight Cloth Backing, High Tear Resistance, Bi-Directional Sanding, Excellent Abrasive For Heavy Stock Removal, Our Most Popular Flooring Abrasive.

Silicon Carbide: For Sanding Of Hardwood Floors Or Concrete. Silicon Carbide Grain For Consistent Performance, Economical Choice, Full Resin Bond For Longer Life, Finger Joint To Prevent Scratches, Extra Heavy X-Weight Cloth Backing, High Tear Resistance, Bi-Directional Sanding.



Zirconia



Silicon Carbide

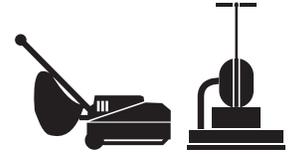
Floor Sanding Sheets



Silicon Carbide

12" x 18"

Part #	Grit / Wt	Pack	Case
418020	20COMB	20	40
418036	36F	20	40
418060	60F	20	40
418080	80F	20	40
418100	100F	20	40



For Squar Buff, Clarke, Deva, Silverline

Power Tool: Floor Sander

Application: For Sanding Hardwood Floors, Concrete

Features: Silicon Carbide Grain Offers Consistent Performance At A Competitive Price, Resin On Resin Bond For Longer Life, High Tear Resistance, Precut Sheets For Convenience, Popular In Rental Market



Cloth Floor Sanding Discs



Silicon Carbide

16" x 2" Hole

Part #	Grit / Wt	Pack	Case
426012	12X	20	40
426016	16X	20	40
426020	20X	20	40
426036	36X	20	40
426050	50X	20	40
426060	60X	20	40
426080	80X	20	40
426100	100X	20	40

17" x 2" Hole

Part #	Grit / Wt	Pack	Case
427012	12X	20	40
427016	16X	20	40
427020	20X	20	40
427036	36X	20	40
427060	60X	20	40
427080	80X	20	40
427100	100X	20	40



18" x 2" Hole

Part #	Grit / Wt	Pack	Case
428016	16X	20	40
428020	20X	20	40
428036	36X	20	40
428060	60X	20	40

19" x 2" Hole

Part #	Grit / Wt	Pack	Case
429016	16X	20	40
429020	20X	20	40
429036	36X	20	40
429060	60X	20	40
429080	80X	20	40
429100	100X	20	40

20" x 2" Hole

Part #	Grit / Wt	Pack	Case
430016	16X	20	40
430020	20X	20	40
430036	36X	20	40
430060	60X	20	40
430080	80X	20	40
430100	100X	20	40

Application: For Sanding Hardwood Floors & Concrete

Features: Silicon Carbide Grain Offers Consistent Performance At A Competitive Price, Resin On Resin Bond For Longer Life, Heavy X-Weight Cloth, Coarse Grit Discs Are An Economical & Efficient Way To Remove Mastic & Glue From Concrete Floors



Floor Sanding Discs



Silicon Carbide Paper

16" x No Hole - Fast Grip Double-Sided

Part #	Grit / Wt	Pack	Case
44816020	20COMB	20	40
44816036	36F	20	40
44816060	60F	20	40
44816080	80F	20	40
44816100	100F	20	40

17" x No Hole - Fast Grip Double-Sided

Part #	Grit / Wt	Pack	Case
44817020	20COMB	20	40
44817036	36F	20	40
44817060	60F	20	40
44817080	80F	20	40
44817100	100F	20	40



16" x No Hole - PSA

Part #	Grit / Wt	Pack	Case
463016	16X	20	40
463020	20X	20	40
463036	36F	20	40
463050	50F	20	40
463060	60F	20	40
463080	80F	20	40
463100	100F	20	40
463120	120F	20	40



Fast Grip Double-Sided



PSA

Application: For Sanding Hardwood Floors, Concrete

Features: Silicon Carbide Grain Offers Consistent Performance At A Competitive Price, Resin On Resin Bond For Longer Life, Fast Grip Backing Allows You To Drop The Machine & Backing Pad Directly On The Disc & Begin Sanding, Also Available With Self-Adhesive PSA Backing

Floor Sanding Edger Discs



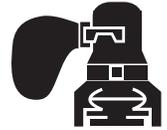
Zirconia Cloth

7" x 5/16" Hole - Bolt On

Part #	Grit / Wt	Pack	Case
409024	24X	25	100
409036	36X	25	100
409050	50X	25	100
409060	60X	25	100
409080	80X	25	100
409100	100X	25	100

7" x 7/8" Hole - Bolt On

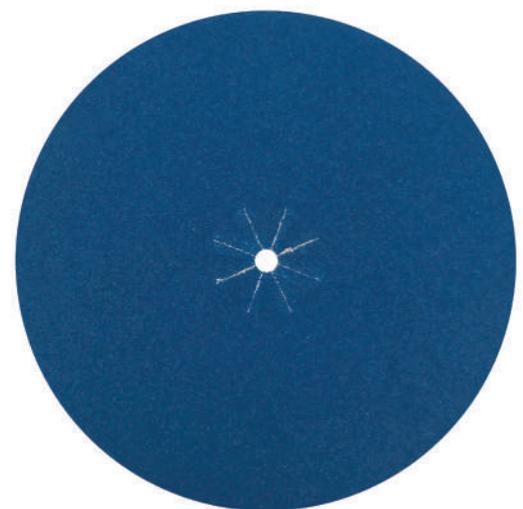
Part #	Grit / Wt	Pack	Case
410024	24X	25	100
410036	36X	25	100
410050	50X	25	100
410060	60X	25	100
410080	80X	25	100
410100	100X	25	100



Power Tool: Floor Edger Sander

Application: For Sanding Hardwood Floors

Features: Highest Quality Zirconia Grain Offers Outstanding Durability, Resin On Resin Bond For Longer Life, Extra Heavy X-Weight Cloth Backing, Most Popular Flooring Abrasive, High Tear Resistance, Reaches Areas That Belts Cannot



Floor Sanding Edger Discs



Silicon Carbide Grain

7" x 5/16" Hole - Bolt On

Part #	Grit / Wt	Pack	Case
407012	12X	50	200
407016	16X	50	200
407020	20X	50	200
407024	24X	50	200
407036	36X	50	200
407040	40X	50	200
407050	50X	50	200
407060	60X	50	200
407080	80X	50	200
407100	100X	50	200

7" x 7/8" Hole - Bolt On

Part #	Grit / Wt	Pack	Case
408012	12X	50	200
408016	16X	50	200
408020	20X	50	200
408024	24X	50	200
408036	36X	50	200
408040	40X	50	200
408050	50X	50	200
408060	60X	50	200
408080	80X	50	200
408100	100X	50	200



6" No Hole - Hook & Loop

Part #	Grit / Wt	Pack	Case
457036	36F	50	100
457060	60F	50	100
457080	80F	50	100

7" x 7/8" No Hole - Hook & Loop

Part #	Grit / Wt	Pack	Case
458036	36F	50	100
458060	60F	50	100
458080	80F	50	100

8" No Hole - Hook & Loop

Part #	Grit / Wt	Pack	Case
459036	36F	50	100
459060	60F	50	100
459080	80F	50	100



Power Tool: Floor Edger Sander

Application: For Sanding Hardwood Floors, Concrete

Features: Silicon Carbide Grain Offers Consistent Performance At Competitive Price, Resin On Resin For Longer Life, High Tear Resistance, Popular In Rental Market

Floor Sanding Screens



Silicon Carbide

15" Disc

Part #	Grit	Pack	Case
442080	80	10	20
442100	100	10	20
442150	150	10	20

16" Disc

Part #	Grit	Pack	Case
443060	60	10	20
443080	80	10	20
443100	100	10	20
443120	120	10	20
443150	150	10	20
443180	180	10	20
443220	220	10	20



17" Disc

Part #	Grit	Pack	Case
444060	60	10	20
444080	80	10	20
444100	100	10	20
444120	120	10	20
444150	150	10	20
444180	180	10	20
444220	220	10	20

18" Disc

Part #	Grit	Pack	Case
445060	60	10	20
445080	80	10	20
445100	100	10	20
445120	120	10	20
445150	150	10	20

19" Disc

Part #	Grit	Pack	Case
446060	60	10	20
446080	80	10	20
446100	100	10	20
446150	150	10	20

20" Disc

Part #	Grit	Pack	Case
447060	60	10	20
447080	80	10	20
447100	100	10	20
447120	120	10	20
447150	150	10	20
447220	220	10	20

Application: For Sanding Hardwood Floors, Concrete, Tile, Marble, Natural & Artificial Stone

Features: Silicon Carbide Grain On Both Sides Of Mesh-Cloth Backing For Extended Use, Resin On Resin Bond For Longer Life, Open Coat Screen Prevents Loading, Can Be Used Wet Or Dry For Greater Flexibility, Washable & Reusable



Floor Sanding Screens



Silicon Carbide

12" x 18"

Part #	Grit	Pack	Case
449128060	60	10	20
449128080	80	10	20
449128100	100	10	20
449128120	120	10	20
449128150	150	10	20
449128180	180	10	20



For Squar Buff, Clarke, Deva, Silverline

Power Tool: Floor Sander

Application: For Sanding Hardwood Floors, Concrete, Tile, Marble, Natural & Artificial Stone

Features: Silicon Carbide Grain On Both Sides Of Mesh-Cloth Backing For Extended Use, Resin On Resin Bond For Longer Life, Open Coat Screen Prevents Loading, Can Be Used Wet Or Dry For Greater Flexibility, Washable & Reusable



Floor Maintenance Pads



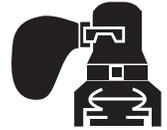
Non-Woven

7" x 1/4" x 5/16" Hole - Edger Pads

7" x 1/4" x 7/8" Hole - Edger Pads

Part #	Color	Pack	Case
451756	Maroon	20	40

Part #	Color	Pack	Case
451778	Maroon	20	40



Maroon: Between-Coats Finishing Pads

Lightly Scrapes The Finish To Allow Better Adhesion For the Next Finish Coat

Power Tool: Floor Edger Sander

Application: For Sanding Hardwood Floors, Tile, Natural & Artificial Stone

Features: Non-Woven Synthetic Fiber Prevents Gouging & Promotes a Smooth & Even Finish, Open Web Design & Thick Construction For Durability, 1/4" Are More Economical Than 1" Pads, Prevents Chattering Of Machines, Can Be Used Wet Or Dry For Greater Flexibility



12" x 18" x 1"

Part #	Color	Pack	Case
4201WH	White	5	10
4201RD	Red	5	10
4201GR	Green	5	10
4201BL	Black	5	10



White: For Polishing, Buffing With A Light Mist



Red: For Dry Buffing, Spray Buffing, Light Scrubbing



Green: For Wet Scrubbing



Black: For Heavy Stripping



For Squar Buff, Clarke, Deva, Silverline

Power Tool: Floor Sander

Application: For Sanding Hardwood Floors, Tile, Natural & Artificial Stone

Features: Non-Woven Synthetic Fiber Prevents Gouging & Promotes a Smooth & Even Finish, Open Web Design & Thick Construction For Durability, 1/4" Are More Economical Than 1" Pads, Prevents Chattering Of Machines, Can Be Used Wet Or Dry For Greater Flexibility



Floor Maintenance Pads



Silicon Carbide



15" x 1"

Part #	Color	Case
45015W	White	5
45015R	Red	5
45015G	Green	5
45015B	Black	5

16" x 1"

Part #	Color	Case
45016W	White	5
45016R	Red	5
45016G	Green	5
45016B	Black	5

17" x 1"

Part #	Color	Case
45017W	White	5
45017R	Red	5
45017G	Green	5
45017B	Black	5

18" x 1"

Part #	Color	Case
45018W	White	5
45018R	Red	5
45018G	Green	5
45018B	Black	5

19" x 1"

Part #	Color	Case
45019W	White	5
45019R	Red	5
45019G	Green	5
45019B	Black	5

20" x 1"

Part #	Color	Case
45020W	White	5
45020R	Red	5
45020G	Green	5
45020B	Black	5

-  **White:** For Dry Polishing / Buffing Or With Fine Water Mist To Ensure High Gloss. Also Used As A Cushion Between Machine & Sandscreen Or Double-Sided Sanding Disc
-  **Red:** For Dry Buffing, Spray Buffing, Or Light Scrubbing
-  **Green:** For Wet Scrubbing
-  **Black:** For Heavy Stripping

Application: For Polishing, Buffing, Stripping & Scrubbing
Hardwood Floors, Concrete, Tile, Natural & Artificial Stone

Features: Different Colors For A Variety Of Applications, Open Web Design & Thick Construction For Durability, Can Use Wet Or Dry For Greater Flexibility, Washable & Reusable For Longer Life, Designed To Prevent Snaging & Tearing For Increased Durability



SAFETY GEAR



your safety is important.

Make Sure You Are Wearing The Proper Safety Gear When Operating Champion Tools.



Safety Eyewear



Safety Spectacles - Adjustable Temples

Part #	Frame	Lens	Pack	Case
D30001	Black	Clear UV Wrap Lens	12	72
D30002	Black	Grey UV Wrap Lens	12	72
D30003	Red / White / Blue	Clear UV Wrap Lens	12	72
D30005	Sport Style	Clear UV Wrap Lens	12	72



D30005 - Sport Style

Visitor Spectacles

Part #	Lens	Pack	Case
D30004	Clear Lens	12	72



Safety Goggles - Perforated

Part #	Pack	Case
D20001	12	72

For Optimal Air Flow



Safety Goggles - Chemical Splash

Part #	Pack	Case
D20002	12	72

4 Indirect Vents



All Eyewear Is ANSI Compliant

Safety Ear Muffs



Part #	Pack	Case
D40001	12	36

Lightweight (5 oz) & Comfortable
Adjustable Headband
NRR: 20 db (Over The Head)



All Champion Packaging Includes Safety Guidelines & Best Practices
For Operating Your Tools.

Please Read Instructions & Warnings Before Working.

Wear Protective Equipment When Specified
Safety Eyewear, Ear Protection, Mask, Gloves

TECHNICAL



Drill Size Decimal Equivalency Chart

Drill Size	Decimal Equiv.						
80	.0135	37	.1040	C	.2420	17/32"	.5312
79	.0145	36	.1065	D	.2460	13.50mm	.5315
1/64"	.0156	7/64"	.1094	1/4" E	.2500	35/64"	.5469
78	.0160	35	.1100	6.50mm	.2559	14.00mm	.5512
77	.0180	34	.1110	F	.2570	9/16"	.5625
0.50mm	.0197	33	.1130	G	.2610	14.50mm	.5709
76	.0200	32	.1160	17/64"	.2656	37/64"	.5781
75	.0210	3.00mm	.1181	H	.2660	15.00mm	.5906
74	.0225	31	.1200	I	.2720	19/32"	.5938
73	.2420	1/8"	.1250	7.00mm	.2756	39/64"	.6094
72	.0250	30	.1285	J	.2770	15.50mm	.6102
71	.0260	29	.1360	K	.2810	5/8"	.6250
70	.0280	3.50mm	.1378	9/32"	.2812	16.00mm	.6299
69	.0292	28	.1405	L	.2900	41/64"	.6406
68	.0310	9/64"	.1406	M	.2950	16.50mm	.6496
1/32"	.0312	27	.1440	7.50mm	.2953	21/32"	.6562
67	.0320	26	.1470	19/64"	.2969	17.00mm	.6693
66	.0330	25	.1495	N	.3020	43/64"	.6719
65	.0350	24	.1520	5/16"	.3125	11/16"	.6875
64	.0360	23	.1540	8.0mm	.3150	17.50mm	.6890
63	.0370	5/32"	.1562	O	.3160	45/64"	.7031
62	.0380	22	.1570	P	.3230	18.00mm	.7087
61	.0390	4.00mm	.1575	21/64"	.3281	23/32"	.7188
1.00mm	.0394	21	.1590	Q	.3320	18.50mm	.7283
60	.0400	20	.1610	8.50mm	.3346	47/64"	.7344
59	.0410	19	.1660	R	.3390	19.00mm	.7480
58	.0420	18	.1695	11/32"	.3438	3/4"	.7500
57	.0430	11/64"	.1719	S	.3480	49/64"	.7656
56	.0465	17	.1730	9.0mm	.3543	19.50mm	.7677
3/64"	.0469	16	.1770	T	.3580	25/32"	.7812
55	.0520	4.50mm	.1772	23/64"	.3594	20.00mm	.7874
54	.0550	15	.1800	U	.3680	51/64"	.7969
1.50mm	.0591	14	.1820	9.50mm	.3740	20.50mm	.8071
53	.0595	13	.1850	3/8"	.3750	13/16"	.8125
1/16"	.0625	3/16"	.1875	V	.3770	21.00mm	.8268
52	.0635	12	.1890	W	.3860	53/64"	.8281
1.70mm	.0669	11	.1910	25/64"	.3906	27/32"	.8438
51	.0670	10	.1935	10.00mm	.3937	21.50mm	.8465
50	.0700	9	.1960	X	.3970	55/64"	.8594
49	.0730	5.00mm	.1969	Y	.4040	22.00mm	.8661
48	.0760	8	.1990	13/32"	.4062	7/8"	.8750
5/64"	.0781	7	.2010	Z	.4130	22.50mm	.8858
47	.0785	13/64"	.2031	10.50mm	.4134	57/64"	.8906
2.00mm	.0787	6	.2040	27/64"	.4219	23.00mm	.9055
46	.0810	5	.2055	11.00mm	.4331	29/32"	.9062
45	.0820	4	.2090	7/16"	.4375	59/64"	.9219
44	.0860	3	.2130	11.50mm	.4528	23.50mm	.9252
43	.0890	5.50mm	.2165	29/64"	.4531	15/16"	.9375
42	.0935	7/32"	.2188	15/32"	.4688	24.00mm	.9449
3/32"	.0938	2	.2210	12.00mm	.4724	61/64"	.9531
41	.0960	1	.2280	31/64"	.4844	24.50mm	.9646
40	.0980	A	.2340	12.50mm	.4921	31/32"	.9688
2.50mm	.0984	15/64"	.2344	1/2"	.5000	25.00mm	.9843
39	.0995	6.00mm	.2362	13.00mm	.5118	63/64"	.9844
38							

Tap & Drill Chart

Tap/Drill Sizes						Tap/Drill Sizes					
Tap Size	Tap Drill Size	Prob % of Thread	Tap Size	Tap Drill Size	Prob % of Thread	Tap Size	Tap Drill Size	Prob % of Thread	Tap Size	Tap Drill Size	Prob % of Thread
0-80	56	74	3/8-24	Q	75	1.6x.35	1.25mm	69	9.0x1.25	7.75mm	73
	3/64"	71		8.5mm	70	1.8x.35	1.45mm	69	10x1.5	8.50mm	71
1-64	54	81	7/16-14	U	75	2.0x.4	1.60mm	69		Q	75
	53	59	7/16-20	W	75		52	66	10x1.25	8.70mm	73
1-72	1.50mm	68		25/64"	68	2.2x.45	1.75mm	70		11/32"	71
	53	67	1/2-13	27/64"	75	2.5x.45	2.05mm	69	11x1.5	9.50mm	70
2-56	51	74		11.0mm	64		46	67		3/8"	71
	50	62	1/2-20	11.4mm	74	3.0x.5	2.50mm	68	12x1.75	10.20mm	74
2-64	50	70		29/64"	67		40	70		Y	71
	49	56	9/16-12	15/32"	84	3.5x.6	2.90mm	68	12x1.25	10.80mm	67
3-48	48	78		31/64"	69		33	72		27/64"	72
	5/64"	70	9/16-18	1/2"	82	4.0x.7	3.30mm	69	14x2.0	12.00mm	72
3-56	46	69		33/64"	60		30	73		15/32"	76
	45	56 5	5/8-11	17/32"	76	4.5x.75	3.70mm	74	14x1.5	12.50mm	71
4-40	44	74		35/64"	63		26	70	16x2.0	14.00mm	72
	43	65	5/8-18	9/16"	82	5.0x.8	4.20mm	69		35/64"	76
4-48	2.35mm	72		37/64"	60		19	68	16x1.5	14.50mm	71
	42	61	11/16-11	19/32"	75	5.5x.9	4.60mm	68	18x2.5	15.50mm	73
5-40	39	71		5/8"	75		14	67		39/64"	74
	38	65	11/16-16	5/8"	75	6.0x.75	5.30mm	74	18x1.5	16.50mm	70
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