



Product Line Card
PLC 2020



Who We Are



ESTABLISHED 1897

Over 120 years later, Champion still shares the same core values we were founded upon. We create solution oriented tools that aim to 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.

CULTURE

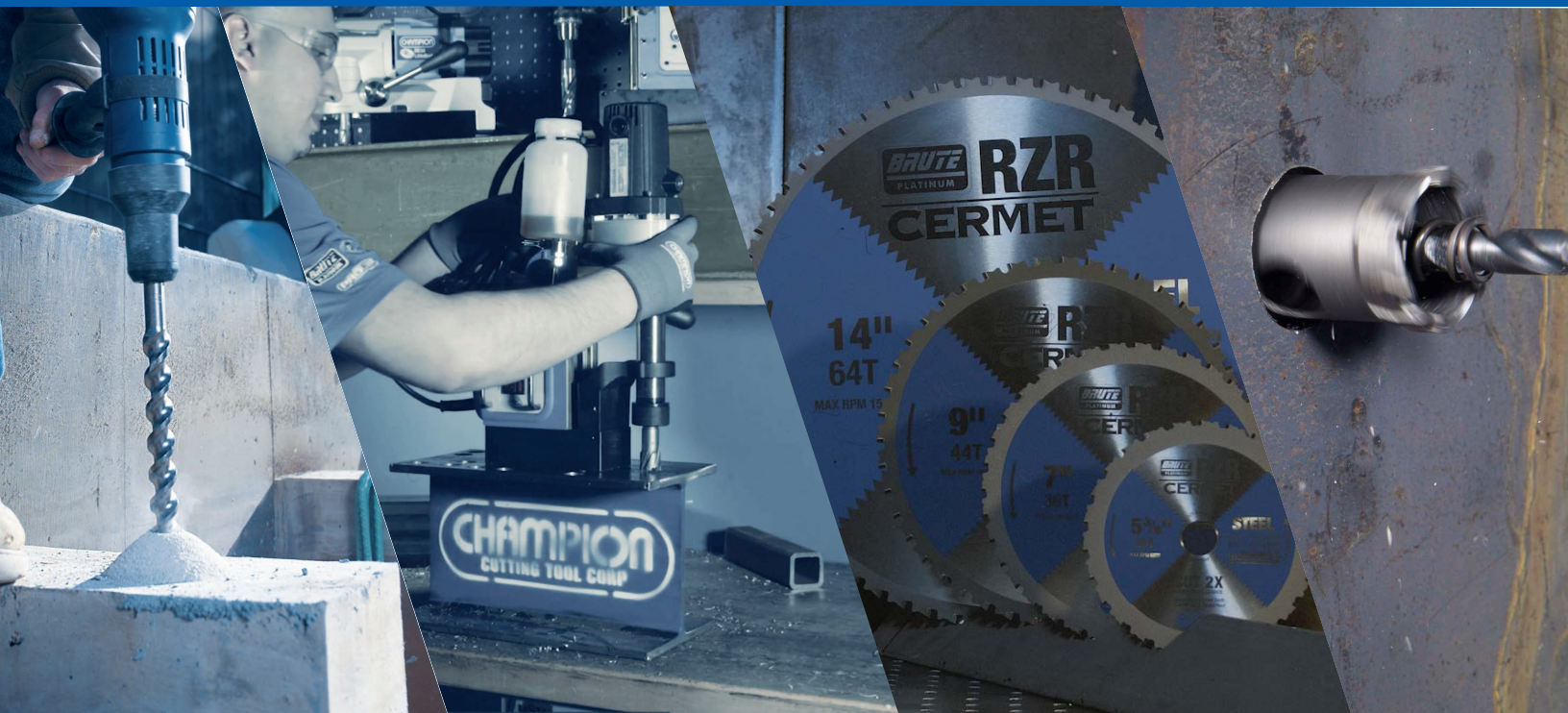
Our highly accessible team radiates positive energy and has a passion for delivering personalized service. We are proud of our experienced salesforce who has the problem-solving skills and expert product knowledge to help distributors and cutting tool users meet their business goals. As a service oriented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

SPECIAL DISTRIBUTOR NETWORK

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.



What We Do



Where We Give



Our Strong Brands

CHAMPION
CUTTING TOOL CORP

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**

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

ROTO
Brute

**The Ultimate Hole
Cutting System**

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- Magnetic Drill Presses
- Carbide Tipped
Annular Cutters
- HSS Annular Cutters

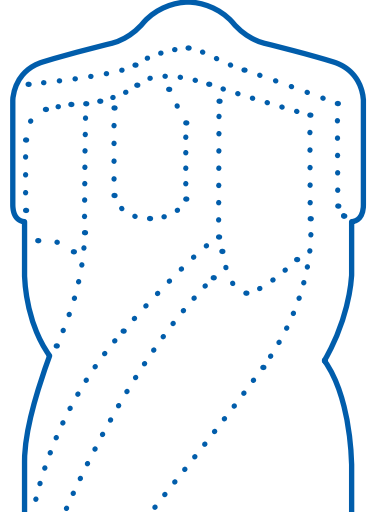
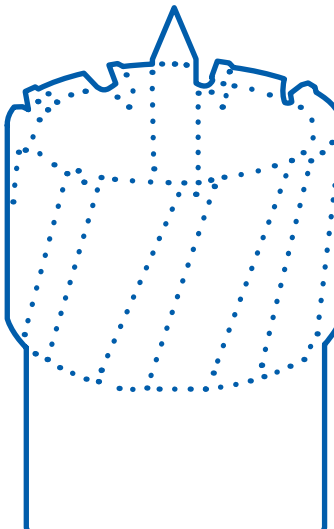
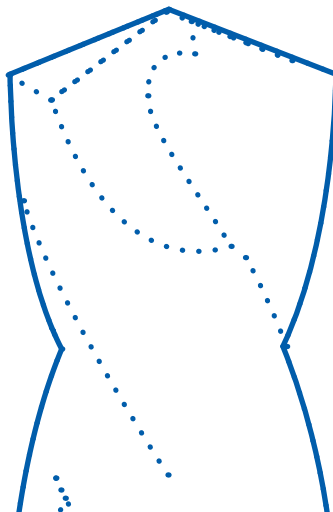
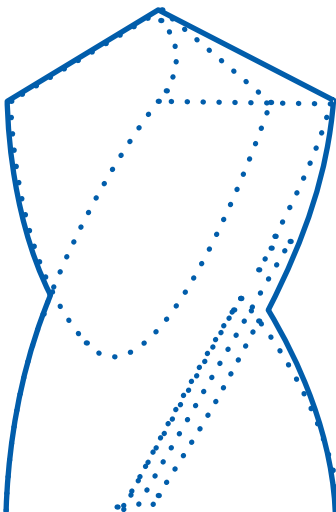
COLUMBIA
Our sister brand Columbia
offers an economical
alternative to RotoBrute
annular cutters.

PROLINE

**Concrete, Masonry,
Tile, & Wood**

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- Hammer Bits
- Rebar Cutters
- Hammer Core Drills
- Hammer Chisels
- Floor Scrapers
- Tile Drills
- Rotary Masonry Drills
- Spade Bits
- Auger Bits



Metal Cutting - Drills

* 135° Self-Centering Split Point
** 118° Self-Centering Split Point



Twist Drills

BRUTE PLATINUM	XL5 Heavy Duty Jobber* Sizes - 1/16 to 1/2", Letters & Numbers Drill Stainless Steel & Tough Alloys	
BRUTE PLATINUM	XL28 Heavy Duty Mechanics Length* 3 Flatted Reduced Shank - Sizes - 1/16 to 1/2" Drill Stainless Steel and Tough Alloys	
CHAMPION	705C Cobalt Jobber* Sizes - 1/64 to 1/2", Letters & Numbers Drill Stainless Steel In Drill Press	
CHAMPION	700T TIN Coated Jobber* Sizes - 1/16 to 1/2", Numbers For High Production CNC Drilling	
CHAMPION	XG0 BlackGold® Jobber* Sizes - 1/16 to 1/2", Letters & Numbers Drill Medium to Hard Alloys	
CHAMPION	705SP Split Point Jobber* Sizes - 3/64 to 1/2", Letters & Numbers Drill Low to Medium Alloys	
CHAMPION	705 General Purpose Jobber Sizes - 1/64 to 1/16", Letters & Numbers Drill Low to Medium Alloys	
CHAMPION	405 Bright Finish Jobber Sizes - 1/64 to 1/2", Letters & Numbers Drill Aluminum & Non-Ferrous Metals	
CHAMPION	USHD Split Point Jobber* Sizes - 1/16 to 1/2", Letters & Numbers Drill Low to Medium Alloys	
CHAMPION	US5 General Purpose Jobber Sizes - 1/16 to 1/2", Letters & Numbers Drill Low to Medium Alloys	

Hex Shank Drills

CHAMPION	HEX28 Hex Shank Drills* Sizes - 1/16 to 1/2", Drill Low to Medium Alloys 1/4" Hex Shank For Use In Impact Driver	
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Metric Drills

BRUTE PLATINUM	XL8 Metric Jobber-Heavy Duty* Sizes - 1.0mm to 13.00mm Drill Stainless Steel & Tough Alloys	
CHAMPION	708 Metric Jobber-General Purpose Sizes - 0.25mm to 17.50mm Drill Low to Medium Alloys	






Silver & Deming 1/2" Shank Drills

BRUTE PLATINUM	XL12 Heavy Duty S&D** 3 Flatted Shank- Sizes - 33/64 to 1-1/2" Drill Stainless Steel & Tough Alloys	
CHAMPION	712G0 Cobalt S&D** Sizes - 17/32 to 1-1/2" Drill Stainless Steel in Drill Press	
CHAMPION	XG12 BlackGold® S&D** 3 Flatted Shank-Sizes - 33/64 to 1-1/2" Drill Medium to Hard Alloys	
CHAMPION	712 General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys	
CHAMPION	US12 General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys	

Extra Long Drills

CHAMPION	1800 18" Longboy Drills Sizes - 3/16 to 1" 13" Usable Flute Length	
CHAMPION	1200 12" Longboy Drills Sizes - 1/8 to 3/4" 9" Usable Flute Length	

Extra Long Drills cont.

CHAMPION	1212 12" Longboy 1/2" Shank Sizes - 17/32 to 1" 9" Usable Flute Length	
CHAMPION	7012 12" Aircraft Extension* Sizes - 3/64 to 1/2", Numbers For Precision Drilling	
CHAMPION	7006 6" Aircraft Extension* Sizes - 3/64 to 3/8", Numbers & Letters For Precision Drilling	
CHAMPION	CS12X 12" Aircraft Extension* Sizes - 1/8 to 1/2", Numbers For Construction & Maintenance Drilling	
CHAMPION	CS6X 6" Aircraft Extension* Sizes - 1/16 to 1/2", Numbers For Construction & Maintenance Drilling	




Screw Machine "Stub" Drills

CHAMPION	1705C Cobalt Screw Machine* Sizes - 3/64 to 1/2", Numbers & Letters Drill Stainless Steel & Tough Alloys	
CHAMPION	1705 Screw Machine* Sizes - 3/64 to 1/2", Numbers & Letters Drill Low to Medium Alloys	

Reduced Shank Drills

BRUTE PLATINUM	XM28 Heavy Duty Mechanics Length* 3 Flatted Shank - Sizes - 25/64 to 1/2" Drill Stainless Steel & Tough Alloys	
BRUTE PLATINUM	XL38 Heavy Duty 3/8" Shank* Sizes - 25/64 to 1/2" Drill Medium To Hard Alloys	
CHAMPION	XG38 BlackGold® 3/8" Shank* Sizes - 25/64 to 1/2" Drill Medium To Hard Alloys	
CHAMPION	738 3/8" Shank Sizes - 25/64 to 11/16" Drill Low to Medium Alloys	
CHAMPION	CS14 1/4" Shank Sizes - 9/32 to 1/2" Drill Sheet Metal, Mild Steel, Aluminum	

Taper Shank / Taper Length Drills

CHAMPION	702 Taper Shank Drills Sizes - 13/64 to 3-1/4"	
CHAMPION	704 Taper Length Drills Sizes - 3/64 to 1-3/4"	
CHAMPION	S1, S2 Taper Sleeves, Sockets and D1 Drift Keys	

Left Hand Twist Drills

BRUTE PLATINUM	XL5LH Heavy Duty Left Hand Drills* Sizes - 5/64, 7/64, 5/32, 1/4 & 19/64"	
CHAMPION	705LH Left Hand Drills Sizes - 1/32 to 1/2"	

Screw Extractors

CHAMPION	X1 Spiral Flute Screw Extractors Sizes - 1 to 12 (sets available)	
CHAMPION	X2 Straight Flute Screw Extractors Sizes - 1 to 7 (sets available)	

Metal Cutting - Drills, Saws, Cutters & Reamers

Step Drills

MSD-HEX Hex Shank Step Drills*
 1/4" Hex Shank For Use In Impact Driver
 2 Flute - TIN Coated-Split Point
 4 Sizes Available



MSD Step Drills*
 Straight Shank-2 Flute-Split Point
 13 Sizes Available



Quick Change Drivers

QCD Quick Change Driver
 For 1/4" and 3/8" hex shank tools



QCD-EXT Extensions
 For 1/4" hex shank tools
 6, 12 & 24" Lengths



Carbide Drills

705CT Carbide Tipped Jobber
 Sizes - 1/8 to 1/2"
 Drill Abrasive & Non-Ferrous Materials



105 Solid Carbide Drills
 Sizes - 1/64 to 1/2"
 Drill Abrasive & Non-Ferrous Materials



CT505 Glass & Tile Spear Point
 Sizes - 1/8 to 5/8"
 Drill Glass & Ceramic Tile



CT605 Carbide Tipped Die Drill
 Sizes - 3/16 to 3/4"
 Precision Drilling: Hardened Steel & Armor Plate



CT705 Carbide Tipped Locksmith
 Sizes - 1/8 to 1/2"
 Non-Precision Drilling: Hardened Steel & Safes



Other Drills & Accessories

1805 Double End Sheeter Drills*
 Sizes - 7/64 to 1/4", #30
 Drill Sheet Metal



2005 Corrugated Construction Drills*
 Sizes - 1x2-1/4 to 1x6
 Drill Corrugated Metal



705-Pilot Drill For Hole Saws
 1/4" Diameter, 4" OAL, 118° Split Point
 Triple Slab Shank - Fits Most Hole Saw Arbors



Gauge Plates
 Fractional, Metric, Letters & Numbers



Circular Saw Blades

RZR Circular Saw-Steel Cutting
 Heavy Duty Cermet Teeth
 Sizes - 5-3/8 to 14"



RZR Circular Saw-Stainless Steel Cutting
 Heavy Duty Cermet Teeth
 Sizes - 5-3/8 to 14"



RZR Circular Saw-Alum/Non-Ferrous Cutting
 Heavy Duty Carbide Teeth
 Sizes - 6-1/2 to 14"



Carbide Tipped Hole Cutters

CT3 Carbide Tipped Hole Cutters
 1/8" Depth Of Cut
 Sizes - 5/8 to 1-3/8"
 1/4" Hex Shank- For Use In Impact Driver



CT5 Carbide Tipped Hole Cutters
 3/16" Depth Of Cut
 Sizes - 9/16 to 5"
 Ideal For Electrical Work, Construction



CT7 Carbide Tipped Hole Cutters
 1" Depth Of Cut
 Sizes - 9/16 to 4-1/2" - Heavy Duty
 Ideal For Construction, Steel Fabrication, MRO



CT9 Carbide Tipped Hole Cutters
 2" Depth Of Cut
 Sizes - 1-1/2 & 2-1/8" - Heavy Duty
 Drill Through Steel Doors



Sheet Metal Cutters

SMC Sheet Metal Cutters
 1/4" Depth of Cut or 1/2" Depth of Cut
 Sizes - 1/4 to 1-1/2" Diameter



Bridge Reamers

XL86 Heavy Duty Hex Shank Bridge Reamers
 Sizes - 11/16 to 1-5/8"



XL86M Heavy Duty Magnetic Hex Shank Bridge Reamers
 Sizes - 11/16 to 1-3/16"



980 Taper Shank Bridge Reamers
 Sizes - 7/16 to 1-5/16" (Straight Flute)



982 Taper Shank Bridge Reamers
 Sizes - 7/16 to 1-5/8" (Spiral Flute)



Car Reamers

SA80 Heavy Duty Car Reamers
 Sizes - 5/16 to 1-1/2"
 Flatted Straight Shank



HX82 Hex Shank Car Reamers
 Sizes - 11/16 to 1-3/16" (Spiral Flute)



HX82M Hex Shank Magnetic Car Reamers
 Sizes - 11/16 to 1-3/16" (Spiral Flute)



HX80 Hex Shank Car Reamers
 Sizes - 11/16 to 1-3/16" (Straight Flute)



Step Reamers

XSR Heavy Duty Step Reamers
 Sizes - 5/16-9/16, 9/16-13/16, 13/16-1-1/16"
 5 Drill Sizes Per Reamer



Taper Pin Reamers

T76/T77/T78 Straight/Spiral Flute Taper Pin Reamers
 Sizes - 7/0 to 10



Metal Cutting - Threading

* Specify Taper, Plug, Bottom, or Set
** Specify Plug or Bottom

Power Tapper



XLT Tapper

High Production, Fast Tapping
Auto Reverse & Controlled Speeds
Pivoting Tap Collet Reduces Tap Breakage

Ideal For Use With XL22 Spiral Point Taps & BruteLube Fluid
For HSS Standard Square Shank Taps
Aluminum: #10 to 5/8"
Steel: #10 to 9/16"



High Speed Steel Taps



XL22 Heavy Duty Spiral Point Taps
Sizes - 4-40 to 3/4-16



XL46 Heavy Duty Spiral Flute Taps**
Sizes - 6-32 to 1/2-20



321 Spiral Point Taps
Sizes - 0-80 to 3/4-16



308 Hand Taps*
Sizes - 0-80 to 1-1/2-12



3088 8 Thread Hand Taps*
Sizes - 1-1/8 to 4



Titanium Nitride Coated Taps



XL22T Heavy Duty Spiral Point Taps
Sizes - 4-40 to 3/4-16



321T Spiral Point Taps
Sizes - 6-32 to 3/4-10



Metric Taps (HSS)



XL22M Heavy Duty Spiral Point Taps
Sizes - 2.5x.45 to 16x2



321M Spiral Point Taps
Sizes - 1.6x.35 to 24x3



308M Hand Taps*
Sizes - 1.6x.35 to 56x5.5



Left Hand Taps (HSS)



308LH Hand Taps
Sizes - 10-32 to 1-14



Carbon Hand Taps



302 Taps*
Sizes - 4-40 to 1-1/2-12



302M Metric Hand Taps
Sizes - 3x.6 to 18x2.5



Nut Taps



1308 Nut Taps
Sizes - 1/4-20 to 1/2-13



Pulley Taps



3006 Pulley Taps
Sizes - 1/4-20 to 5/8-11, 6" OAL



Pipe Taps (HSS)



324/324H Taper Pipe Taps
Regular / High Hook, NPT
Sizes - 1/16-27 to 2-11-1/2



324I Taper Pipe Taps
Interrupted Thread, NPT
Sizes - 1/8 to 2



325 Straight Pipe Taps
Sizes - 1/8-27 to 1-11-1/2, NPS



304 Carbon Steel Taper Pipe Taps
Sizes - 1/8-27 to 3-8, NPT



Tap Wrenches



2002/3002 'T' Handle Tap Wrenches
Ratchet Style Available



3001 Bar Handle Tap Wrenches



Drill & Tap Combinations



DT22HEX Combined Drill & Tap
Hex Shank- For Use In Impact Driver
Sizes - Fractions & Metric



DT22/DT22M Combined Drill & Tap
Square Shank
Sizes - Fractions & Metric



DT22T Combined Drill & Tap
Titanium Nitride Coated- Square Shank
Sizes - Fractions & Metric



Hexagon Rethreading Dies



330 Dies
Sizes - 6-32 to 2-1/2-12, 1/8 to 1 NPT



3308 8 Thread Special Dies
8 Thread - Sizes - 1-1/8 to 4



CS30 Dies
Sizes - 4-40 to 1-14



Metric Hexagon Rethreading Dies



330M Dies
Sizes - 3x.5 to 27x3



CS30M Dies
Carbon Steel Sizes - 3x.5 to 18x2.5



Left Hand Hexagon Rethreading Dies



330LH
Sizes - 1/4-20 to 1-14



Screw Adjustable Dies



328 Round Dies
Sizes - 6-32 thru 1-14



Die Stocks



3305 Hex Converter For Round Dies
Sizes - 13/16 to 2"



3291/3292 Round/Hex Die Stocks
Sizes - 13/16 to 2"



Metal Cutting - Counterinks, Burs, Tool Bits

Multi Flute Countersinks

BRUTE PLATINUM **XL801 Single Flute Countersinks**
 Sizes - 1/4 to 2" - 60 / 82 / 90 / 100 & 120°
 Countersink Stainless Steel & Tough Alloys
 Use In Portable Drill, Drill Press, or Bridgeport Machine



CHAMPION **800 Four Flute Countersinks**
 Sizes - 1/2 to 1" - 60 / 82 & 90°
 Countersink/Chamfer Many Steels & Alloys
 Use In Screw Machines & Turret Lathes



CHAMPION **799 Three Flute Countersinks**
 Sizes - 1/4 to 1" - 60 / 82 / 90 / 100 & 120°
 Countersink/Chamfer Many Steels & Alloys
 Use In Portable Drills & Drill Presses



CHAMPION **799L Large Four Flute Countersinks**
 Sizes - 1-1/4 to 2" - 60 / 82 & 90°
 Countersink/Chamfer Many Steels & Alloys
 Use In Portable Drills & Drill Presses



Zero Flute 'Weldon' Countersinks

CHAMPION **CSK Zero Flute Countersinks**
 82° Pilotless or Pilotless
 De-Bur Metal, Plastic, Wood, Aluminum
 Use In Portable Drills & Drill Presses



CHAMPION **CSK-SH Hex Shank Zero Flute Countersinks**
 82° Pilotless, 1/4" Hex Shank
 De-Bur Metal, Plastic, Wood, Aluminum
 Use In Impact Drivers



CHAMPION **CSKA/DBK Zero Flute Countersinks**
 100°/90°
 De-Bur Metal, Plastic, Wood, Aluminum
 Use In Portable Drills & Drill Presses



Combined Drill & Countersinks

CHAMPION **798 Combined Drill & Countersinks**
 HSS / Plain Style / 60° Included Angle
 Commonly Called "Center Drills"
 Drill Center Holes In Material Turned On Lathes



CHAMPION **198 Combined Drill & Countersinks**
 Solid Carbide/Plain Style/60° Included Angle
 Commonly Called "Center Drills"
 Drill Center Holes In Material Turned On Lathes



Carbide Burs - Ferrous Metals

CHAMPION **Carbide Burs - Double Cut**
 Titanium Nitride Coated
 Shapes - SA to SN / Sizes - 1/8 to 1"



CHAMPION **Carbide Burs - Double Cut**
 Uncoated, Standard OAL & 6" Length
 Shapes - SA to SN / Sizes 1/8 to 3/4"



CHAMPION **Radius Burs - Double Cut**
 SB5RA / SC5RA / SF5RA
 Sizes - 1/2"



CHAMPION **Carbide Burs - Miniature**
 Double Cut, 1-1/2" OAL
 Shapes - SA to SN / Sizes 1/16 to 1/4"



Carbide Burs - Non Ferrous Metals

CHAMPION **Carbide Burs - Non Ferrous**
 Single Flute
 Shapes - SA to SL / Sizes - 1/4 to 3/4"



Fiberglass Routers

CHAMPION **Carbide Fiberglass Routers**
 Sizes - FGR-1 to FGR-9



Tool Bits & Turning Tools

CHAMPION **515 HSS Square Tool Bits**
 Sizes - 1/8 to 1-1/4"



CHAMPION **516 Cobalt Square Tool Bits**
 Sizes - 1/8 to 1-1/4"



CHAMPION **Brazed Carbide Turning Tools**
 Styles - AL/AR/BL/BR/C/D/E



Metal Cutting - End Mills

* Aluminum Chromium Nitride
 ** Titanium Nitride

Cobalt & Coated End Mills

BRUTE PLATINUM **XLVC/XLVR AlCrN Coated End Mills***
 Four Flute / Single End / Right Hand Helix
 High Performance, Multi-Purpose
 Sizes - 1/4 to 1"



BRUTE PLATINUM **XL600 Cobalt TiN Coated End Mills****
 2 Flute / Single End / Right Hand Helix
 Milling Of Tough Alloys
 Sizes - 1/8 to 1-1/4"



BRUTE PLATINUM **XL606 TiN Coated Cobalt End Mills****
 Multi Flute / Single End / Right Hand Helix
 Milling Of Tough Alloys
 Sizes - 1/8 to 1-1/2"



CHAMPION **600T TiN Coated HSS End Mills****
 2 Flute / Single End / Right Hand Helix
 Sizes - 1/8 to 2"



CHAMPION **601T TiN Coated HSS End Mills****
 Multi Flute / Single End / Right Hand Helix
 Sizes - 1/8 to 2"



CHAMPION **602C0 Cobalt End Mills**
 2 Flute / Double End / Right Hand Helix
 Milling Stainless Steels & Tough Materials
 Sizes - 1/8 to 1"



CHAMPION **607C0 Cobalt End Mills**
 4 Flute / Double End / Right Hand Helix
 Milling Stainless Steels & Tough Materials
 Sizes - 1/8 to 1"



CHAMPION **609 Cobalt Roughing End Mills**
 Multi Flute / Single End / Right Hand Helix
 Sizes - 1/2 to 2"



Carbide End Mills

CHAMPION **106 Solid Carbide End Mills**
 2 Flute / Single End / Right Hand Helix
 Sizes - 1/32 to 1"



CHAMPION **107 Solid Carbide End Mills**
 2 Flute / Double End / Right Hand Helix
 Sizes - 1/8 to 1/2"



Carbide End Mills cont.

CHAMPION **166 Solid Carbide End Mills**
 4 Flute / Single End / Right Hand Helix
 1/16 to 1"



CHAMPION **167 Solid Carbide End Mills**
 4 Flute / Double End / Right Hand Helix
 1/8 to 1/2"



High Speed Steel End Mills

CHAMPION **600 HSS End Mills**
 2 Flute / Single End / Right Hand Helix
 General Purpose Milling
 Sizes - 1/8 to 2"



CHAMPION **601 HSS End Mills**
 Multi Flute / Single End / Right Hand Helix
 General Purpose Milling
 Sizes - 1/8 to 2"



CHAMPION **602 HSS End Mills**
 2 Flute / Double End / Right Hand Helix
 General Purpose Milling
 Sizes - 1/8 to 1"



CHAMPION **603 HSS End Mills**
 4 Flute / Double End / Right Hand Helix
 Economic Profiling & Milling Of Slots
 Sizes - 1/8 to 1"



CHAMPION **604 HSS Ball End Mills**
 2 Flute / Single End / Right Hand Helix
 General Purpose Radius Milling
 Sizes - 1/8 to 1-1/2"



CHAMPION **606 HSS End Mills**
 4 Flute / Single End / Right Hand Helix
 Plunge Cutting & Fine Finish Required
 Sizes - 1/8 to 1-1/2"



CHAMPION **607 HSS End Mills**
 4 Flute / Double End / Right Hand Helix
 Plunge Cutting & Fine Finish Required
 Sizes - 1/8 to 1"



Magnetic Drill Presses & Annular Cutters

Magnetic Drill Presses & Cutting Lubricants

AC35 MiniBrute
Powerful & Lightweight
Cutter Capacity:
1-3/8" Diam x 2" Depth
Twist Drill Capacity - 3/4"



AC50 MightiBrute
Powerful & Versatile
Cutter Capacity:
2-1/8" Diam x 2" Depth
Twist Drill Capacity - 1"



SB35 SmartBrute
Productive & Reliable
Automatic Feed
Auto Cutter Capacity:
1-3/16" Diam x 1-3/4" Depth
Manual Capacity: 1-3/8" Diam x 2" Depth



RB30 LittleBrute
Low Profile & Lightweight
Cutter Capacity:
1-3/8" Diam x 1-3/16" Depth



RB32 MiniBrute
Lightweight, Reverse Feed Handle
Cutter Capacity:
1-3/8" Diam x 1-3/16" Depth



RB32-VSR MiniBrute
Reverse Feed, Variable Speed
Cutter Capacity:
1-3/8" Diam x 1-3/16" Depth
Can Use With Taps



RB65E MegaBrute
Powerful, Large Capacity
Cutter Capacity:
4" Diam x 3" Depth
Twist Drill Capacity - 1-1/4"



XLUB BruteLube Fluid & Wax
Enhance Performance Of
All Mag Drills & Cutters



Carbide Tipped Annular Cutters

CT150 Carbide Tipped Cutters
Long Tool Life, Drill Tough Alloys
1-3/8" Depth Of Cut, Sizes - 1/2 to 1-9/16"



CT200 Carbide Tipped Cutters
Long Tool Life, Drill Tough Alloys
2" Depth Of Cut, Sizes - 1/2 to 4" Diam



CT300 Carbide Tipped Cutters
Long Tool Life, Drill Tough Alloys
3" Depth Of Cut, Sizes - 3/4 to 4" Diam



CT400 Carbide Tipped Cutters
Long Tool Life, Drill Tough Alloys
4" Depth Of Cut, Sizes - 3/4 to 2" Diam



Carbide Tipped Stack Cutters

CT150STK Stack Cutters
Drill Multiple Plates, Drill Tough Alloys
1-3/8" Depth Of Cut- Sizes - 9/16 to 1" Diam



CT200STK Stack Cutters
Drill Multiple Plates, Drill Tough Alloys
2" Depth Of Cut- Sizes - 13/16 to 1-1/4" Diam



Pilot Pins

Pilots CT Annular Cutters
For CT150, CT200, CT300, CT400



Pilots XL Annular Cutters
For XL100, XL200, XL300



Pilots CS Annular Cutters
For CS100, CS200



High Speed Steel Annular Cutters

XL100 HSS Annular Cutters
2X Life Standard HSS Cutters
1" Depth Of Cut - Sizes - 7/16 to 4" Diam



XL200 HSS Annular Cutters
2X Life Standard HSS Cutters
2" Depth Of Cut - Sizes - 7/16 to 4" Diam



XL300 HSS Annular Cutters
2X Life Standard HSS Cutters
3" Depth Of Cut - Sizes - 3/4 to 4" Diam



CS100 HSS Annular Cutters
Pilot Pin Included
1" Depth Of Cut - Sizes - 7/16 to 2" Diam



CS200 HSS Annular Cutters
Pilot Pin Included
2" Depth Of Cut - Sizes - 7/16 to 2" Diam



Magnetic Drill Press Accessories

Additional Arbors Available
For RotoBrute
Magnetic Drill Presses



Tapping Attachments
Available For RB32-VSR



Additional Drill Chucks
For RotoBrute
Magnetic Drill Presses



Saddle for Cutting Pipe
Attach Mag Drill To Convex Surfaces,
Steel Pipe, & Tubing



RMX7
Magnetic Clean Up Tool



Concrete & Masonry Tools

SDS Plus Hammer Bits

PROLINE CM95X SDS Plus Hammer Bits
Solid Tip Cross Head - Penetrate Rebar
Sizes - 5/32x2x4 to 1-1/4x16x18"



PROLINE CM95 SDS Plus Hammer Bits
Performance Flute, Serrated Tip,
Fast Dust Removal
Sizes - 5/32x2x4 to 1x16x18"



PROLINE CM9 SDS Plus Hammer Bits
Sizes - 5/32x2x4 to 1x8x10"



PROLINE CM95-STOP SDS Plus Stop Drills
Drill Proper Depth For Drop-In Anchors
Sizes - 3/8x1-1/16 to 5/8x2-1/16"



SDS Max Hammer Bits

PROLINE CM96 SDS Max Hammer Bits
4 Cutter Cross-Head, High Performance
Sizes - 3/8x8x13 to 2x16x23"



Spline Shank Hammer Bits

PROLINE CM97 Spline Shank
Single Point
Sizes - 3/8x5x10 to 2x17x22"



PROLINE CM98 Spline Shank
Quad Point
Sizes - 5/8x5x10 to 2x18x23"



Rebar Cutters

PROLINE CM79SDS Rebar Cutters
SDS Plus Shank
Sizes - 3/8 to 1-1/8"



PROLINE CM79 Rebar Cutters
Straight Shank
Sizes - 1/2 to 1-1/2"



Core Drills

PROLINE CM89HC Hammer Core Bits
SDS Max, Spline
Sizes - 1-3/4 to 5"



PROLINE CM95HC Thin Wall Core Bits
SDS Plus Only
Sizes - 1-3/16 to 4"



PROLINE Hammer Core Bit Shanks
SDS Plus, SDS Max, Spline



Chisels & Floor Scrapers

PROLINE Hammer Chisels
Over 50 Styles & Sizes
SDS Max, Spline, Breaker, 3/4" Hex, SDS Plus



PROLINE Floor Scrapers
Complete Kit & Replacements Blades
SDS Max, Spline, 3/4" Hex



Tile Drills & Diamond Cutters

PROLINE PTC3 Mini Diamond Hole Cutters
Drill Grade 5+ Porcelain Tile, Ceramic & More
Sizes - 3/16 to 1-3/8"



PROLINE PTC4 Multi Purpose Diamond Hole Saws
Drill Tile, Masonry, Plastics & Wood
Pilot & Arbor Separate, Sizes - 3/4 to 4"



PROLINE PTC Porcelain Tile Spearpoint Drills
Drill Tile, Ceramic & More
Sizes - 3/16 to 5/16"



CHAMPION CT505 Glass & Tile Drills
Drill Ceramic & Glass
Sizes - 1/8 to 5/8"



Rotary Masonry Drills

PROLINE CM85 Rotary Masonry Drills
Use In Rotary Percussion Drill
Multiple Lengths, Sizes - 1/8 to 1"



PROLINE CSC4 Rotary Masonry Drills
Use In Rotary Percussion Drill
4" Short Length, Sizes - 1/8 to 1/2"



PROLINE CSC6 Rotary Masonry Drills
Use In Rotary Percussion Drill
6" Length, Sizes - 1/4 to 3/4"



Tapcon Drills

PROLINE CM95T Tapcon® SDS Plus Drills
Sizes - 5/32x2x5 to 3/16x4x7



PROLINE TCB Tapcon® Masonry Drills
Sizes - 5/32x3-1/2 to 3/16x6-1/2"



Multi Purpose Drills

PROLINE CM-MPB Multi-Purpose Drills
Drill Metal, Wood, Tile
Sizes - 1/8 to 1/2"



Wood Cutting Tools

Auger Drills

PROLINE 8606 Heavy Duty Auger Drills
6" Length
Sizes - 1/2 to 1-1/2"



PROLINE 8018 Auger Drills
17" Length
Sizes - 3/8 to 1-1/2"



PROLINE 8700 / 8800 Auger Extensions
8700 Sizes - 12", 18" & 24" Length
8800 Sizes - 18" & 24" Length



Wood Boring Drills

PROLINE 8001 Wood Boring Flat Bits
6" Long
Sizes - 1/4 to 1-1/2"



Bellhanger Drills

PROLINE 8048 Bellhanger Drills
12, 18, 24 & 30" Lengths



Sets



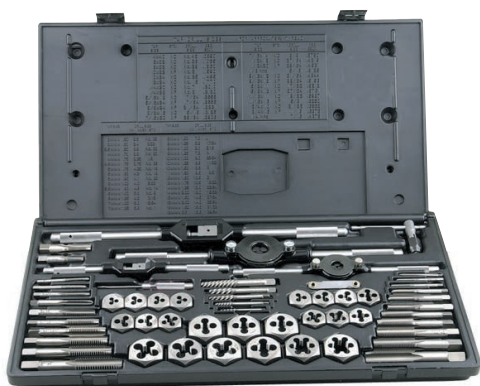
Twist Drills



Drill Dispensers



Drill & Tap Indexes



Taps & Dies



Reamers



Step Drills



Carbide Burs



Carbide Tipped Hole Cutters



Countersinks

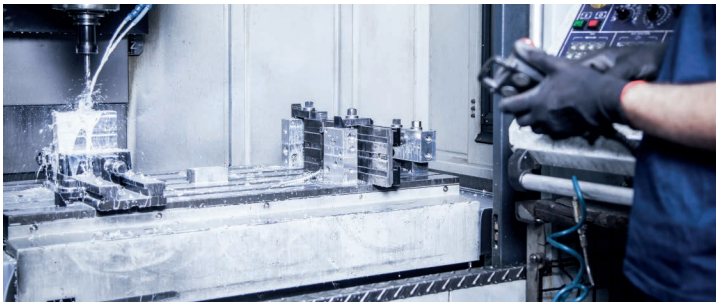
Tools By Industry & Application



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



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



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



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

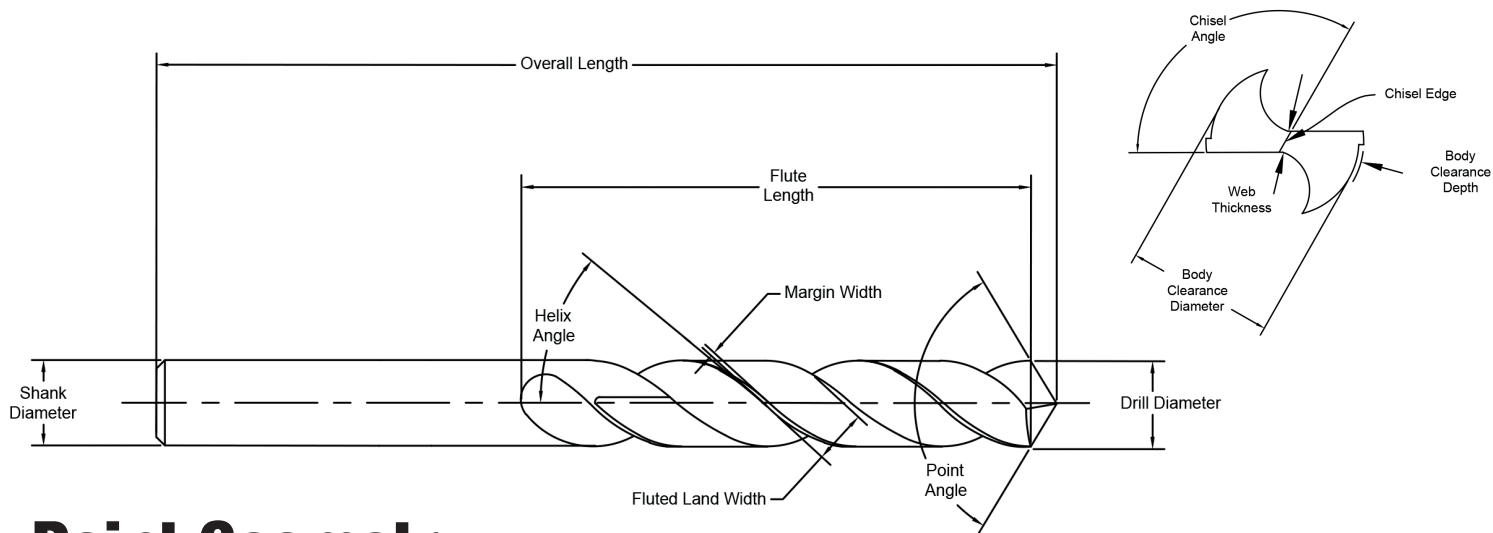


MECHANICAL, ELECTRICAL & PLUMBING

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

Anatomy & Nomenclature



Point Geometry

118° Point



- General Purpose Use
- Not Self-Centering
- Ideal For Use In Stationary Drill Press
- For Drilling Softer Materials Such As Wood, Aluminum And Low To Medium Steel Alloys

135° Split Point



- Self-Centering
- Ideal For Use In Handheld Power Drill And Drill Press
- For Drilling Harder Steel Alloys
- Requires Less Operator Force Than 118° Point Drills

BruteLube Cutting Fluid & Wax



BruteLube is highly recommended for most metal drilling applications.

By enhancing tool heat resistance, operators will experience smoother cuts, longer tool life, and increased productivity.

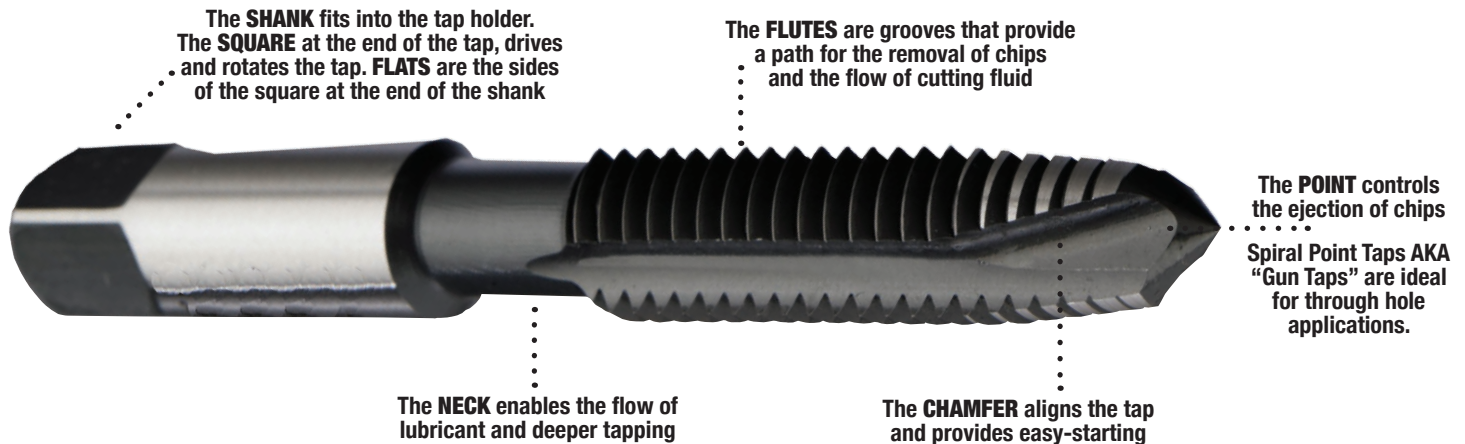
Cutting Fluid	Cutting Wax
XLUB4 (4oz)	XLUB-WAX-2 (2oz)
XLUB16 (16oz)	XLUB-WAX-16 (16oz)
XLUB128 (Gal)	XLUB-STICK-16 (16oz)

*BruteLube is environmentally safe. MSDS available upon request.

Drill Size Decimal Equivalency Chart

Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	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	.1015	B	.2380	33/64"	.5156	1"	1.000

Anatomy & Nomenclature



Chamfer Styles

The chamfer is ground on the front of the tap to help it begin threading and assist with alignment. There are three types of chamfer as shown on the hand taps below.

TAPER

7 TO 10 THREADS OF CHAMFER
Nickname: "STARTER Taps" - they are easy to align and start threading



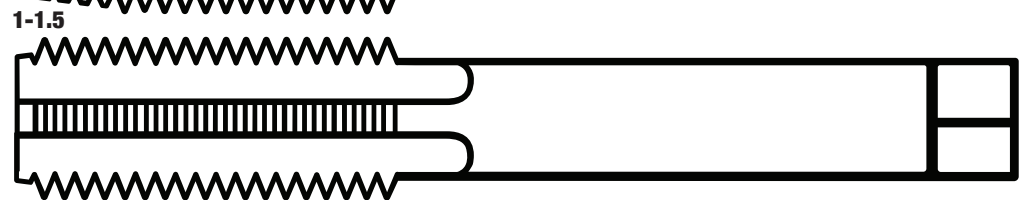
PLUG

3 TO 5 THREADS OF CHAMFER
Most popular - often used to start and finish threading in a single pass



BOTTOM

1 TO 1.5 THREADS OF CHAMFER
Nickname: "FINISHING Taps" - can thread to the bottom of a blind hole (packs the chips at the bottom)



A New Way To Tap



Traditionally, a handheld tap wrench is recommended to properly tap a hole. Unfortunately, this method is time consuming and not cost effective for large projects.

The XLT Tapper solves this problem. Engineered to precisely cut threads quickly and accurately. It eliminates frustrations associated with tapping a large number of holes.

Industries that will benefit from using the XLT Tapper are steel fabrication, commercial construction, elevator maintenance, architectural metal and glass, and more.

Drill & Tap Chart

Tap Drill Sizes					
Tap Size	Tap Drill Size	Prob % of Thread	Tap Size	Tap Drill Size	Prob % of Thread
0-80	56 3/64"	74 71	3/8-24	Q 8.5mm	75 70
1-64	54 53	81 59	7/16-14	U	75
1-72	1.50mm 53	68 67	7/16-20	W 25/64"	75 68
2-56	51 50	74 62	1/2-13	27/64"	75
2-64	49 48	56 78	1/2-20	11.0mm 11.4mm	64 74
3-48	5/64"	70	9/16-12	15/32"	84
3-56	46 45	69 56 5	9/16-18	1/2"	82
4-40	44 43	74 65	5/8-11	33/64"	60
4-48	2.35mm 42	72 61	5/8-18	17/32"	76
5-40	39 38	71 65	35/64"	63	
5-44	37 36	63 72	9/16"	82	
6-32	7/64"	64	37/64"	60	
6-40	33 32	69 60	11/16-11	19/32"	75
8-32	3.40mm 29	74 62	11/16-16	5/8"	75
8-36	29 9/64"	70 60	3/4-10	41/64"	81
10-24	3.70mm 25	76 69	21/32"	69	
10-32	5/32"	75	3/14-16	11/16"	72
12-24	11/64"	75	17.5mm	70	
12-28	17 16	73 77	7/8-9	49/64"	73
1/4-20	9 7	77 70	25/32"	62	
1/4-28	13/64"	66	7/8-14	51/64"	79
5/16-18	3 5.50mm	70 67	13/16"	62	
5/16-24	F G	72 66	1-8	7/8"	74
3/8-16	6.80mm I	78 70	57/64"	64	
	5/16"	74	29/32"	82	
	O	69	59/64"	68	
			15/16"	62	
			63/64"	73	
			1"	65	
			1-1/8-7	1-1/32"	82
			1-1/8-12	1-3/64"	67
			1-1/4-7	1-3/32"	81
			1-1/4-12	1-7/64"	73
			1-1/8	1-1/8"	64
			1-1/4-12	1-5/32"	81
			1-11/64"	67	
			1-3/8-6	1-13/64"	81
			1-19/64"	66	
			1-9/32"	81	
			1-19/64"	66	
			1-1/2-6	1-11/32"	69
			1-23/64"	62	
			1-13/32"	80	
			1-27/64"	66	

Tap Drill Sizes					
Tap Size	Tap Drill Size	Prob % of Thread	Tap Size	Tap Drill Size	Prob % of Thread
1.6x.35	1.25mm	69	9.0x1.25	7.75mm	73
1.8x.35	1.45mm	69	10x1.5	8.50mm	71
2.0x.4	1.60mm	69	Q		75
	52	66	10x1.25	8.70mm	73
2.2x.45	1.75mm	70	11/32"	71	
2.5x.45	2.05mm	69	11x1.5	9.50mm	70
	46	67	3/8"	71	
3.0x2.5	2.50mm	68	12x1.75	10.20mm	74
	40	70	Y	71	
3.5x6	2.90mm	68	12x1.25	10.80mm	67
	33	72	27/64"	72	
4.0x.7	3.30mm	69	14x2.0	12.00mm	72
	30	73	15/32"	76	
4.5x.75	3.70mm	74	14x1.5	12.50mm	71
	26	70	16x2.0	14.00mm	72
5.0x.8	4.20mm	69	35/64"	76	
	19	68	16x1.5	14.50mm	71
5.5x.9	4.60mm	68	18x2.5	15.50mm	73
	14	67	39/64"	74	
6.0x.75	5.30mm	74	18x1.5	16.50mm	70
	4	73	20x2.5	17.50mm	73
6.0x1.0	5.00mm	70	11/16"	74	
	9	71	22x2.5	19.50mm	73
7.0x.75	6.30mm	74	49/64"	75	
	D	72	24x3.0	21.00mm	73
7.0x1.0	6.00mm	70	53/64"	72	
	15/64"	73	27x3.0	24.00mm	73
8.0x1.25	6.70mm	74	15/16"	78	
	17/64"	71	30x3.5	26.50mm	74
8.0x1.0	7.00mm	69	1-3/64"	73	
	J	66	29.50mm	74	
			1-11/64"	72	

Pipe Tap Drill Sizes

Tap Size	NPT Tap Drill	NPS Tap Drill
1/16-27	D	1/4"
1/8-27	Q	11/32"
1/4-18	7/16"	7/16"
3/8-18	9/16"	37/64"
1/2-14	45/64"	23/32"
3/4-14	29/32"	59/64"
1-11-1/2	1-9/64"	1-5/32"
1-1/4-11-1/2	1-31/64"	1-1/2"
1-1/2-11-1/2	1-47/64"	1-3/4"
2-11-1/2	2-13/64"	2-7/32"
2-1/2-8	2-5/8"	2-21/32"

Reading Tap Sizes

IMPERIAL FRACTIONAL TAPS

Fractional and machine screw taps are measured in terms of "Threads Per Inch" (TPI)

308-1/4-20-P

Champion Series Name Nominal Size (inch) (diameter) # Threads Per Inch Plug Style Chamfer

METRIC TAPS

Metric taps sizes are designated by the pitch (distance between threads)

308M-8x1.25-P

Champion Series Name Nominal Size (mm) (diameter) Pitch Between Threads (mm) Plug Style Chamfer

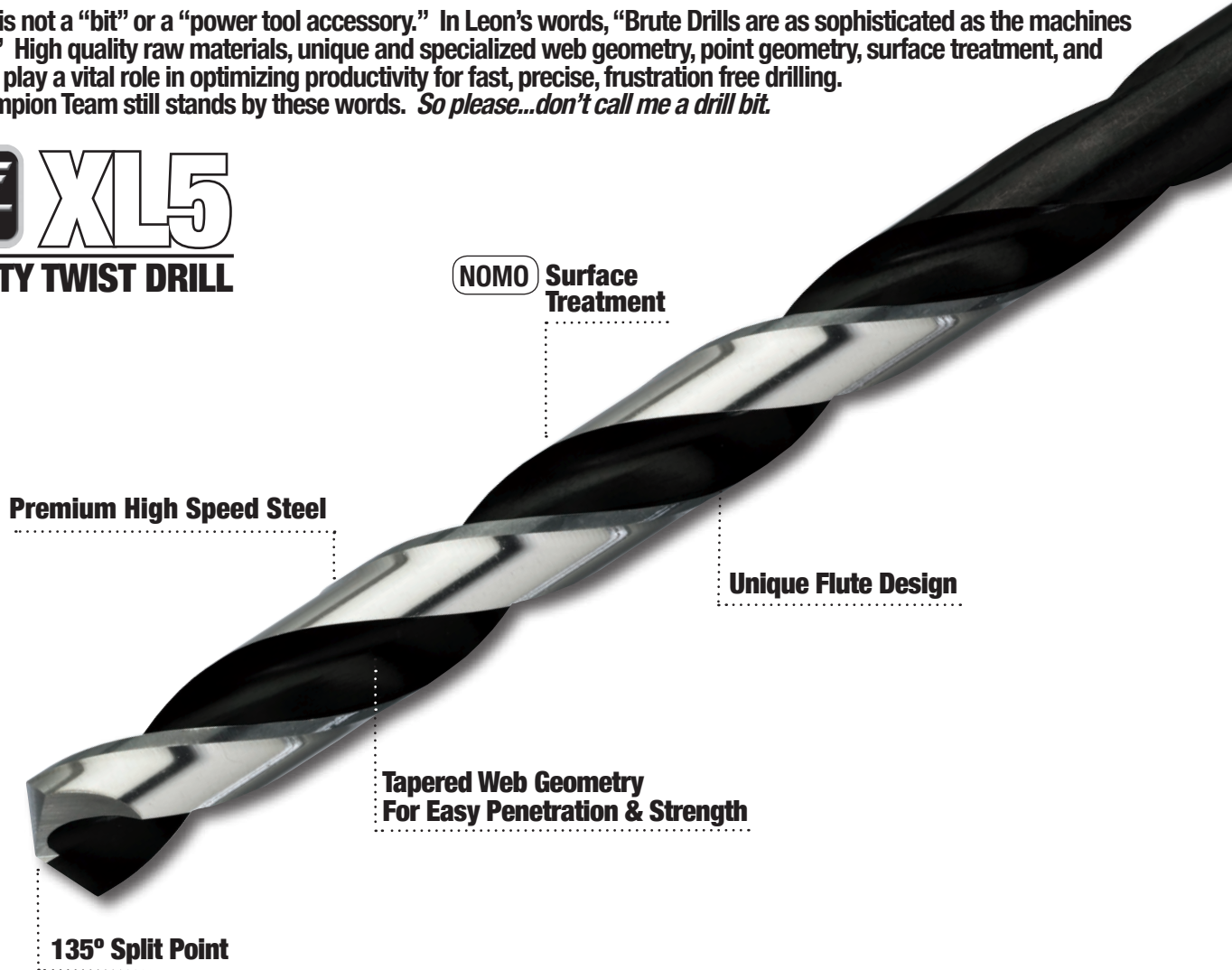
Don't Call Me A Drill Bit

1971 was an important year in U.S. history. Disney World opened, Apollo 14 landed on the moon, and the Brute Drill was born. 50 years later, the Champion team would like to honor the voice of our past visionary, family member, and friend, Leon Frey.

Leon understood the industrial market and the science behind cutting tools. He pushed to innovate the Brute Drill - a premium high speed steel TWIST DRILL that was as strong as cobalt when drilling tough stainless steel, but at a more accessible price point. As the industry shifted, on-site construction and maintenance workers needed a drill that would not snap in a handheld drilling application. Therefore, the Brute Drill was designed to be flexible.

The Brute Drill is not a "bit" or a "power tool accessory." In Leon's words, "Brute Drills are as sophisticated as the machines that run them." High quality raw materials, unique and specialized web geometry, point geometry, surface treatment, and flute design all play a vital role in optimizing productivity for fast, precise, frustration free drilling. Today the Champion Team still stands by these words. *So please...don't call me a drill bit.*

BRUTE
PLATINUM **XL5**
HEAVY DUTY TWIST DRILL



*Brute Platinum has expanded to include many categories of high performance tools



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