



Cutting Tools PLC 2020 CHAMPION

Metal Cutting - Drills

Twist Drills Wist Drills		.				
Subsc. 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE XL28 Heary Dury Mechanics Length* (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE XL28 Heary Dury Mechanics Length* (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE XL28 Heary Dury Mechanics Length* (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE State - 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE State - 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE State - 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE State - 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, Litter & Rundees (STUDE) STUDE State - 1, 11% bit 7/L, Litter & Rundees (STUDE) State - 1, 11% bit 7/L, 11% bit	Twist Drills	ills		Extra L	ong Drills cont.	
Bit Attribution State and Department Stat	BRUTE Sizes - 1/	s - 1/16 to 1/2", Letters & Numbers		CHAMPION Siz	zes - 17/32 to 1"	
General Discussion Size - 146 to 1/2, Litters & Numbers For Edit Size / 116 to 1/2, Litters & Numbers For Edit Size / 116 to 1/2, Litters & Numbers For Edit Size - 116 to 1/2, Litters & Numbers For Edit Siz	PLATINUM 3 Flatted F	tted Reduced Shank - Sizes - 1/16 to 1/2"	h*	CHAMPION Siz	zes - 3/64 to 1/2", Numbers	
General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare KOB BlackCold® Jobber* General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare Store - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //2; hindbare General Discrete - 1/16 bit //16	CHAMPION Sizes - 1/	s - 1/64 to 1/2", Letters & Numbers		CHAMPION Siz	zes - 3/64 to 3/8", Numbers & Letters	0/0/0/0
General Purpose Jobber General Purpose Jobber General Purpose Jobb	CHAMPION Sizes - 1/	s - 1/16 to 1/2", Numbers		CHAMPION Siz	zes - 1/8 to 1/2", Numbers	
General Purpose Jobber TOS Cobalt Screw Machine* General Purpose Jobber General Purpose Jobber General Purpose J	CHAMPION Sizes - 1/	s - 1/16 to 1/2", Letters & Numbers	0.0.0	CHAMPION Siz	zes - 1/16 to 1/2", Numbers	0101010
General Project States - 16% to 11/1% Listers & Runders Dell Aversione & Marchine & Listers Dell Aversione & Konters & Munders Dell Aversione & M	CHAMPION Sizes - 3/	s - 3/64 to 1/2", Letters & Numbers		Screw	Machine "Stub" Dri	ils
Gennerody Sizes - 1:04 to 1/2", Latters & Aumbers Diff. Low to Median Alloys Gennerody Sizes - 1:04 to 1/2", Latters & Aumbers Diff. Low to Median Alloys Gennerody Sizes - 1:04 to 1/2", Latters & Aumbers Diff. Low to Median Alloys Gennerody Sizes - 1:04 to 1/2", Latters & Aumbers Diff. Low to Median Alloys Gennerody Sizes - 1:06 to 1/2", Latters & Aumbers Diff. Low to Median Alloys HEX Shank Drills Sizes - Size to 1/2", Manders & Latters Diff. Low to Median Alloys HEX28 Res Shank Drills* Wet kes Shank For Use In Impact Driver Sizes - Size to 1/2", Sizes - Size to 1/2", Diff. Median College Metric Drills Sizes - Size to 1/2", Sizes - Size to 1/2", Diff. Median Alloys Sizes - 1:06 to 1/2 Diff. Sizes - Size to 1/2", Diff. Median Alloys Gennerody Sizes - Size to 1/2", Diff. Median College - Sizes - Size to 1/2", Diff. Median Alloys Gennerody Sizes - Size to 1/2", Diff. Median College - Sizes - Size to 1/2", Diff. Me	CHAMPION Sizes - 1/	s - 1/64 to 11/16", Letters & Numbers		CHAMPION Siz	es - 3/64 to 1/2", Numbers & Letters	
Gennerod Sizes - 1/6 to 1/2', Letters & Numbers Dit Low to Median Alloys With States 1/6 to 1/2', Letters & Numbers Dit Low to Median Alloys Sizes - 1/6 to 1/2', Letters & Numbers Dit Low to Median Alloys Hexx Shank Drills Sizes - 1/6 to 1/2', Letters & Numbers Dit Low to Median Alloys Sizes - 1/6 to 1/2', Letters & Numbers Dit Low to Median Alloys Hexx Shank Drills Sizes - 1/6 to 1/2', Dit Low to Median Alloys Sizes - 2/6/6 to 1/2'' Dit Blankes Sized & Tough Alloys Metric Drills Sizes - 1/6 to 1/2', Dit Low to Median Alloys Sizes - 2/6/6 to 1/2'' Dit Median To Hard Alloys Wetric Drills Sizes - 1/6/6 to 1/2'' Dit States Sized & Tough Alloys Sizes - 2/6/6 to 1/2'' Dit Low to Median Alloys Sizes - 1/6 to 1/2', Dit Der Heavy Duty* Sizes - 1/6 to 1/2'' Dit States Sized & Tough Alloys Sizes - 2/6/6 to 1/2'' Dit Sizes - 2/6/6 to 1/2'' Dit Sizes - 2/6/6 to 1/2'' Dit States Sized & Tough Alloys Sizes - 0.2 to 1/2'' Dit States Sized & Tough Alloys Sizes - 1/2/'' Sizes - 1/2/'' Sizes - 1/2 to 1/2'' Sizes - 2/6/6 to 1/2''' Sizes - 1/2/'' Sizes - 1/2 to 1/2'' Sizes - 2/6/6 to 1/2''' Sizes - 1/2/''' Sizes - 1/2 to 1/2'' Sizes - 1/2/''' Sizes - 1/2/'''' Sizes - 1/2 to 1/2''' Sizes - 1/2 to 1/2'''' Sizes - 1/2/''''''''''''' Sizes - 1/2 to 1/2''''' Sizes - 1/2 to 1/2''''''	CHAMPION Sizes - 1/	s - 1/64 to 1/2", Letters & Numbers		CHAMPION Siz	es - 3/64 to 1/2", Numbers & Letters	
Gennetion Stess - 1/16 to 1/2", Letters & Numbers Diff.Low to Medium Alloys Image: Stess - 2/20 to 1/2" Hex Shank Drills* State Stess - 2/20 to 1/2" HEX28 Hex Shank Drills* State Stess - 2/20 to 1/2" HEX28 Hex Shank Drills* State Stess - 2/20 to 1/2" Wetric Drills State Stess - 2/20 to 1/2" Metric Drills State Step - 1/2" State - 1/20 to 1/2" State - 1/2" View State - 1/20 to 1/2" State - 1/2" State - 1/2" State - 1/2" </td <td>CHAMPION Sizes - 1/</td> <td>s - 1/16 to 1/2", Letters & Numbers</td> <th></th> <td>Reduce</td> <td>ed Shank Drills</td> <td></td>	CHAMPION Sizes - 1/	s - 1/16 to 1/2", Letters & Numbers		Reduce	ed Shank Drills	
Hex Shank Drills HEX28 Hex Shank Drills GHTTED States - 25/04 to 1/2" Metric Drills Wheth Shank for Use In Inpact Order Metric Drills With Ex Shank for Use In Inpact Order Metric Drills With Ex Shank for Use In Inpact Order Metric Drills With Ex Shank for Use In Inpact Order With Ex Shank for Use In Inpact Order Metric Drills With Ex Shank for Use In Inpact Order With Ex Shank for Use In Inpact Order Metric Drills With Ext Order Inform With Ext Order Inform Metric Jobber-Heavy Duty* Sizes - 320 to 12" Drill Medium Alloys Control of 1/50mm Drill Shaines Steel & Tough Alloys Control of 1/2" Silveer & Demning 1/2" Shank Drills Sizes - 320 to 12" Silveer & Deming 1/2" Shank Drills Sizes - 30 to 12" Silveer & Deming 1/2" Shank Drills Sizes - 30 to 12" Silveer & Deming 1/2" Shank Drills Sizes - 30 to 12" Silveer Social Ding Sizes Sizes - 30 to 12"	CHAMPION Sizes - 1/	s - 1/16 to 1/2", Letters & Numbers		BAUIE 3F	Flatted Shank - Sizes - 25/64 to 1/2"	gth*
Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Sizes - 1/16 to 1/2", Sizes - 1/16 to 1/10", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Sizes - 1/16 to 1/10", Sizes - 1/16 to 1/10", Dail Low to Medium Alloys Improvi Sizes - 1/16 to 1/2", Sizes - 1/16 to 1/10", S	Hex Shank	nk Drills		PLATINUM Siz	zes - 25/64 to 1/2" rill Medium To Hard Alloys	
Metric Drills GenRPIO Sizes - 25/64 to 11/10" Mill Low to Medium Alloys Cista 1 / 14" Shank Mill Low to Medium Alloys Cista 1 / 14" Shank Cientre & Deming 1/2" Shank Drills Sizes - 3/32 to 1/2" Drill Shankes Steel & Tough Alloys Cista 1 / 14" Shank Cientre & Deming 1/2" Shank Drills Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Mill Shankes Steel & Tough Alloys Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Mill Shankes Steel & Tough Alloys Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Mill Shankes Steel & Tough Alloys Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Deming 1/2" Shank Drills Cientre & Deming 1/2" Cientre & Deming 1/2" Shank Drills Sizes - 3/64 to 1-1/2" Cientre & Drills	CHAMPION Sizes - 1/10	- 1/16 to 1/2", Drill Low to Medium Alloys		CHAMPION Siz	zes - 25/64 to 1/2"	
Sizes - 1.0mm to 13.00mm Drill Staintess Steel & Tough Alloys General Purpose Sizes - 0/32 to 1/2" Drill Staintess Steel & Tough Alloys General Purpose Sizes - 0.25 mm to 17.50mm Drill Low to Medium Alloys Taper Shank / Taper Length Drills Sizes - 13/64 to 1-1/2" Drill Staintess Steel & Tough Alloys Silver & Deming 1/2" Shank Drills General Purpose Sizes - 13/64 to 1-1/2" Drill Staintess Steel & Tough Alloys XL12 Heavy Duty S&D** 3 Flatted Shank-Sizes - 33/64 to 1-1/2" Drill Staintess Steel & Tough Alloys General Purpose Sizes - 13/64 to 1-3/4" General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Medium Alloys General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Medium Alloys VERNECO Sizes - 33/64 to 1-1/2" Drill Staintess Steel & Tough Alloys General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Medium Alloys General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys General Purpose S&D Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys				CHAMPION Siz Dri	zes - 25/64 to 11/16" ill Low to Medium Alloys	
GHAMPION Drill Low to Medium Alloys Taper Shank / Taper Length Drills Silver & Deming 1/2" Shank Drills GHAMPION Sizes - 13/64 to 3-1/4" Mill Stainless Steel & Tough Alloys GHAMPION Drill Stainless Steel & Tough Alloys 712 C0 Cobalt S&D** Orill Stainless Steel & Tough Alloys GHAMPION Drill Stainless Steel & Tough Alloys 712C0 Cobalt S&D** Orill Stainless Steel & Tough Alloys GHAMPION Drill Stainless Steel & Tough Alloys KG12 BlackGold® S&D** Orill Stainless - 3/64 to 1-1/2" Drill Stainless - 3/64 to 1-1/2" Drill Stainless Steel in Drill Press GHAMPION Sizes - 3/64 to 1-1/2" Drill Stainless - 3/64 to 1-1/2" Drill Stainless - 3/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 3/64 to 1-1/2" Drill Low to Medium Alloys GHAMPION Sizes - 3/64 to 1-1/2" Drill Low to Medium Alloys GHAMPION Sizes - 3/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 3/64 to 1-1/2" Drill Low to Medium Alloys	Sizes - 1.0 Drill Stain	s - 1.0mm to 13.00mm Stainless Steel & Tough Alloys		CHAMPION Siz	zes - 9/32 to 1/2"	
Silver & Deming 1/2" Shank Drills Image: Size of the state of the stat	CHAMPION Sizes - 0.2	- 0.25mm to 17.50mm		Taper S	hank / Taper Lengt	h Drills
Stratted Shank- Sizes - 33/64 to 1-1/2" Drill Stainless Steel & Tough Alloys CHAMPION 712C0 Cobalt S&D** Sizes - 17/32 to 1-1/2" Drill Stainless Steel in Drill Press KG12 BlackGold® S&D** CHAMPION Sizes - 33/64 to 1-1/2" Drill Medium to Hard Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Medium to Hard Alloys CHAMPION 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 CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 1/32 to 1/2"			Drills			
CHAMPION Sizes - 17/32 to 1-1/2" Drill Stainless Steel in Drill Press XG12 BlackGold® S&D** 3 Flatted Shank-Sizes- 33/64 to 1-1/2" Drill Medium to Hard Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys	BRUTE PLATINUM 3 Flatted Drill Stain	atted Shank- Sizes - 33/64 to 1-1/2" Stainless Steel & Tough Alloys				
CHAMPION 3 Flatted Shank-Sizes- 33/64 to 1-1/2" Drill Medium to Hard Alloys Image: Champion Sizes - 33/64 to 1-1/2" CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 33/64 to 1-1/2" CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 33/64 to 1-1/2" CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 1/32 to 1/2"	CHAMPION Sizes - 17 Drill Stair	s - 17/32 to 1-1/2" Stainless Steel in Drill Press				
CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 33/64 to 1-1/2" CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys Image: Champion Sizes - 1/32 to 1/2"	CHAMPION 3 Flatted Drill Med	atted Shank-Sizes- 33/64 to 1-1/2" Medium to Hard Alloys		Left Ha	nd Twist Drills	
CHAMPION Sizes - 33/64 to 1-1/2" Drill Low to Medium Alloys	CHAMPION Sizes - 3 Drill Low	s - 33/64 to 1-1/2" Low to Medium Alloys	and the second	PLATINUM	zes - 5/64, 7/64, 5/32, 1/4 & 19/64"	\$*
	CHAMPION Sizes - 33	s - 33/64 to 1-1/2"				
Extra Long Drills Screw Extractors 1800 18" Longboy Drills X1 Spiral Flute Screw Extractors						
CHAMPION Sizes - 3/16 to 1" 13" Usable Flute Length	CHAMPION Sizes - 3/ 13" Usabl	s - 3/16 to 1" Isable Flute Length	Carden and States and States	CHAMPION Siz	zes - 1 to 12 (sets available)	
1200 12" Longboy Drills X2 Straight Flute Screw Extractors GHAMPION Sizes - 1/8 to 3/4" 9" Usable Flute Length	CHAMPION Sizes - 1/	s - 1/8 to 3/4"				

* Stocked at ABABA BOLT



Metal Cutting - Drills, Saws, Cutters & Reamers

Step Drills	Carbide Tipped Hole Cutters				
CHAMPION 4 Sizes Available	CT3 Carbide Tipped Hole Cutters (HAMPION 1/8" Depth Of Cut Sizes - 5/8 to 1-3/8" ¼" Hex Shank- For Use In Impact Driver				
MSD Step Drills* (HAMPION 3 Sizes Available	CT5 Carbide Tipped Hole Cutters				
Quick Change Drivers	Ideal For Electrical Work, Construction				
CHAMPION For 1/4" and 3/8" hex shank tools	CT7 Carbide Tipped Hole Cutters				
CHAMPION For 1/4" hex shank tools 6, 12 & 24" Lengths	CHAMPION 1" Depth Of Cut Sizes - 9/16 to 4-1/2"- Heavy Duty Ideal For Construction, Steel Fabrication, MRO				
Carbide Drills	CT9 Carbide Tipped Hole Cutters				
CHAMPION Sizes - 1/8 to 1/2" Drill Abrasive & Non-Ferrous Materials	Sizes - 1-1/2 & 2-1/8"- Heavy Duty Drill Through Steel Doors				
CHAMPION Sizes - 1/64 to 1/2" Drill Abrasive & Non-Ferrous Materials	Sheet Metal Cutters				
CT505 Glass & Tile Spear Point GHAMPION Sizes - 1/8 to 5/8" Drill Glass & Ceramic Tile	CHAMPION %" Depth of Cut or ½" Depth of Cut Sizes- ¼ to 1-1/2" Diameter				
CT605 Carbide Tipped Die Drill CHAMPION Sizes - 3/16 to 3/4" Precision Drilling: Hardened Steel & Armor Plate	Bridge Reamers				
CT705 Carbide Tipped Locksmith CHAMPION Sizes - 1/8 to 1/2"	XL86 Heavy Duty Hex Shank Bridge Reamers Sizes - 11/16 to 1-5/8"				
Non-Precision Drilling: Hardened Steel & Safes	Shure XL86M Heavy Duty Magnetic Hex Shank Bridge Reamers				
Other Drills & Accessories 1805 Double End Sheeter Drills* Sizes - 7/64 to 1/4", #30	Sizes - 11/16 to 1-3/16"				
Drill Sheet Metal 2005 Corrugated Construction Drills* (HAMPION) Sizes-1x2-1/4 to 1x6	982 Taper Shank Bridge Reamers				
Drill Corrugated Metal 705-Pilot Drill For Hole Saws	CHAMPION Sizes - 7/16 to 1-5/8" (Spiral Flute)				
CHAMPION 1/4" Diameter, 4" OAL, 118° Split Point Triple Slab Shank- Fits Most Hole Saw Arbors	Car Reamers				
CHAMPION Gauge Plates Fractional, Metric, Letters & Numbers	SA80 Heavy Duty Car Reamers Sizes - 5/16 to 1-1/2" Flatted Straight Shank				
Circular Saw Blades	CHAMPION HX82 Hex Shank Car Reamers Sizes - 11/16 to 1-3/16" (Spiral Flute)				
RZR Circular Saw-Steel Cutting	HX82M Hex Shank Magnetic CHAMPION Car Reamers Sizes - 11/16 to 1-3/16" (Spiral Flute)				
Sizes - 5-3/8 to 14"	CHAMPION HX80 Hex Shank Car Reamers Sizes - 11/16 to 1-3/16" (Straight Flute)				
RZR Circular Saw-Stainless Steel Cutting	Step Reamers				
Sizes - 5-3/8 to 14"	Sizes - 5/16-9/16, 9/16-13/16, 13/16-1-1/16"				
CENTER RZR Circular Saw-Alum/Non-Ferrous Cutting	Taper Pin Reamers				
Heavy Duty Carbide Teeth Sizes - 6-1/2 to 14"	776/777/778 Straight/Spiral (HRMPION) Flute Taper Pin Reamers				



Metal Cutting - Threading

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

Power Tapper	Pipe Taps (HSS)
ERUTE INTERVIEW XLT Tapper High Production, Fast Tapping Auto Reverse & Controlled Speeds	CHAMPION Regular / High Hook, NPT Sizes - 1/16-27 to 2-11-1/2
Pivoting Tap Collet Reduces Tap Breakage Ideal For Use With XL22 Spiral Point Taps & BruteLube Fluid	CHAMPION Interrupted Thread, NPT Sizes - 1/8 to 2
For HSS Standard Square Shank Taps Aluminum: #10 to 5/8" Steel: #10 to 9/16"	CHAMPION 325 Straight Pipe Taps Sizes - 1/8-27 to 1-11-1/2, NPS
High Speed Steel Taps	CHAMPION Sizes - 1/8-27 to 3-8, NPT
* Sizes - 4-40 to 3/4-16	Tap Wrenches
* ELATINUM XL46 Heavy Duty Spiral Flute Taps** Sizes - 6-32 to 1/2-20	CHAMPION 2002/3002 'T' Handle Tap Wrenches Ratchet Style Available
* CHAMPION 321 Spiral Point Taps Sizes - 0-80 to 3/4-16	CHAMPION 3001 Bar Handle Tap Wrenches
* CHAMPION 308 Hand Taps* Sizes - 0-80 to 1-1/2-12	Drill & Tap Combinations
CHAMPION 3088 8 Thread Hand Taps* Sizes - 1-1/8 to 4	CHAMPION Hex Shank- For Use In Impact Driver Sizes - Fractions & Metric
Titanium Nitride Coated Taps	CHAMPION Square Shank Sizes - Fractions & Metric
Sizes - 4-40 to 3/4-16	CHAMPION Titanium Nitride Coated- Square Shank Sizes - Fractions & Metric
CHAMPION 321T Spiral Point Taps Sizes - 6-32 to 3/4-10	Hexagon Rethreading Dies
Metric Taps (HSS)	CHAMPION 330 Dies Sizes - 6-32 to 2-1/2-12, 1/8 to 1 NPT
Sizes - 2.5x.45 to 16x2	CHAMPION 3308 8 Thread Special Dies 8 Thread - Sizes - 1-1/8 to 4
CHAMPION 321M Spiral Point Taps Sizes - 1.6x.35 to 24x3	CHAMPION CS30 Dies Sizes - 4-40 to 1-14
CHAMPION 308M Hand Taps* Sizes - 1.6x.35 to 56x5.5	Metric Hexagon Rethreading Dies
Left Hand Taps (HSS)	CHAMPION 330M Dies Sizes - 3x.5 to 27x3
CHAMPION Sizes - 10-32 to 1-14	CHAMPION CS30M Dies Carbon Steel Sizes - 3x.5 to 18x2.5
Carbon Hand Taps	Left Hand Hexagon Rethreading Dies
CHAMPION 302 Taps* Sizes - 4-40 to 1-1/2-12	CHAMPION 330LH Sizes - 1/4-20 to 1-14
CHAMPION 302M Metric Hand Taps Sizes - 3x.6 to 18x2.5	Screw Adjustable Dies
Nut Taps	CHAMPION 328 Round Dies Sizes - 6-32 thru 1-14
CHAMPION 1308 Nut Taps Sizes - 1/4-20 to 1/2-13	Die Stocks
Pulley Taps	CHAMPION 3305 Hex Convertor For Round Dies Sizes - 13/16 to 2"
CHAMPION 3006 Pulley Taps Sizes - 1/4-20 to 5/8-11, 6" OAL	CHAMPION 3291/3292 Round/Hex Die Stocks Sizes - 13/16 to 2"
·	Sizes - 13/16 to 2"

Metal Cutting - Counterinks, Burs, Tool Bits



Metal Cutting - End Mills

Cobalt & Coated End Mills	Carbide End Mills cont.
XLVC/XLVR AICrN Coated End Mills* FUTTE Four Flute / Single End / Right Hand Helix High Performance, Multi-Purpose Sizes - 1/4 to 1"	CHAMPION 4 Flute / Single End / Right Hand Helix 1/16 to 1"
XL600 Cobalt TiN Coated End Mills** Alight Hand Helix Milling of Tough Alloys Sizes - 1/8 to 1-1/4"	167 Solid Carbide End Mills (HAMPION) 4 Flute / Double End / Right Hand Helix 1/8 to 1/2"
KL606 TiN Coated Cobalt End Mills** Multi Flute / Single End / Right Hand Helix Milling of Tough Alloys Sizes - 1/8 to 1-1/2"	High Speed Steel End Mills
600T TIN Coated HSS End Mills** CHAMPION 2 Flute / Single End / Right Hand Helix Sizes - 1/8 to 2"	600 HSS End Mills CHAMPION 2 Flute / Single End / Right Hand Helix General Purpose Milling Sizes - 1/8 to 2"
601T TIN Coated HSS End Mills** Multi Flute / Single End / Right Hand Helix Sizes - 1/8 to 2"	601 HSS End Mills Multi Flute / Single End / Right Hand Helix General Purpose Milling Sizes - 1/8 to 2"
602C0 Cobalt End Mills CHAMPION 2 Flute / Double End / Right Hand Helix Milling Stanless Steels & Tough Materials Sizes - 1/8 to 1"	602 HSS End Mills CHAMPION 2 Flute / Double End / Right Hand Helix General Purpose Milling Sizes - 1/8 to 1"
607C0 Cobalt End Mills (HAMPION) 4 Flute / Double End / Right Hand Helix Milling Stainless Steels & Tough Materials Sizes - 1/8 to 1"	603 HSS End Mills 4 Flute / Double End / Right Hand Helix Economic Profiling & Milling Of Slots Sizes - 1/8 to 1"
CHAMPION Multi Flute / Single End / Right Hand Helix Sizes - 1/2 to 2"	604 HSS Ball End Mills 2 Flute / Single End / Right Hand Helix General Purpose Radius Milling Sizes - 1/8 to 1-1/2"
Carbide End Mills	GHAMPION 4 Flute / Single End / Right Hand Helix Plunge Cutting & Fine Finish Required Sizes - 1/8 to 1-1/2"
CHAMPION 2 Flute / Single End / Right Hand Helix Sizes - 1/32 to 1"	607 HSS End Mills (HAMPION) 4 Flutte / Double End / Right Hand Helix Plunge Cutting & Fine Finish Required Sizes - 1/8 to 1"
CHAMPION 2 Flute / Double End / Right Hand Helix Sizes - 1/8 to 1/2"	* Stocked at ABABA BOLT

(CHAMPION)

Magnetic Drill Presses & Annular Cutters



* Stocked at ABABA BOLT

*

CHAMPION

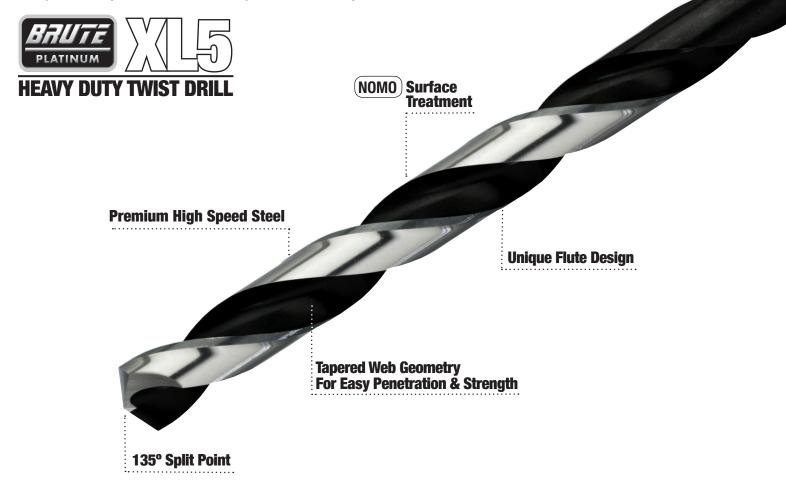


Don't Call Me A Drill Bit

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 has expanded to include many categories of high performance tools

Sets

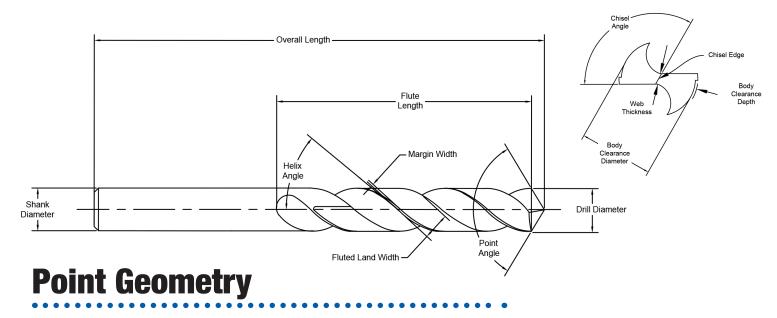


Carbide Burs

Carbide Tipped Hole Cutters

Countersinks

Anatomy & Nomenclature



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.

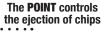
Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv.	Drill Size	Decimal Equiv
80	.0135	37	.1040	C	.2420	17/32"	.5312
79	.0145	36	.1065	D	.2460	13.50mm	.5315
1/64"	.0156	7/64"	.1094	1/4" E	.2500	35/64"	.5469
78	.0160	35	.1100	6.50mm	.2559	14.00mm	.5512
77	.0180	34	.1110	F	.2570	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		.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	ĸ	.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		9/64"		M	.2950		
08 1/32"	.0310	9/64 ⁷⁷ 27	.1406			16.50mm 21/32"	.6496
	.0312		.1440	7.50mm 19/64"	.2953		.6562
67 62	.0320	26	.1470		.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	0	.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

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Anatomy & Nomenclature

The SHANK fits into the tap holder. The SQUARE at the end of the tap, drives and rotates the tap. FLATS are the sides of the square at the end of the shank

The **FLUTES** are grooves that provide a path for the removal of chips and the flow of cutting fluid



Spiral Point Taps AKA "Gun Taps" are ideal for through hole applications.

The **NECK** enables the flow of lubricant and deeper tapping

....

The **CHAMFER** aligns the tap and provides easy-starting

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.

7-10

3-5

1-1.5

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 7/16-20	U W	75 75
	1-72	1.50mm 53	68 67	1/2-13	25/64" 27/64"	68 75
	2-56	51 50	74 62	1/2-20	11.0mm 11.4mm	64 74
	2-64	50 49	70 56	9/16-12	29/64" 15/32"	67 84
	3-48	48 5/64"	78 70	9/16-18	31/64" 1/2"	69 82
	3-56	46 45	69 56 5	5/8-11	33/64" 17/32"	60 76
	4-40	44 43	74 65	5/8-18	35/64" 9/16"	63 82
	4-48	2.35mm 42	72 61	11/16-11		60 75
	5-40	39 38	71 65	11/16-16 3/4-10	41/64"	75 81
	5-44	38 37	72 63	3/14-16	21/32" 11/16"	69 72
	6-32	36 7/64"	72 64	7/8-9	17.5mm 49/64"	70 73
	6-40	33 32	69 60	7/8-14	25/32" 51/64"	62 79
	8-32	3.40mm 29 29	74 62 70	1-8	13/16" 7/8"	62 74
	8-36 10-24	29 9/64" 3.70mm	70 60 76	1-12	57/64" 29/32" 59/64"	64 82 68
	10-24	25 5/32"	69 75	1-14	59/64" 15/16"	79 62
	12-24	21 11/64"	68 75	1-1/8-7	63/64" 1"	73 65
	12-28	17 16	73 77	1-1/8-12		82 67
	1/4-20	15 9	70 77	1-1/4-7	1-3/32" 1-7/64"	81 73
		7 13/64"	70 66	1-1/4-12		64 81
	1/4-28	3 5.50mm	70 67	1-3/8-6	1-11/64" 1-13/64"	67 81
	5/16-18	F G	72 66	1-3/8-12		66 81
	5/16-24	6.80mm I	78 70	1-1/2-6	1-19/64" 1-11/32"	66 69
	3/8-16	5/16" 0	74 69	1-1/2-12	1-23/64" 1-13/32" 1-27/64"	62 80 66

		Tap Dri	ill Sizes	5		
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	40 4 05	Y	71	
3.5x6	2.90mm	68	12x1.25	10.80mm	67	
1.0% 7	33 2.20mm	72	14-20	27/64"	72	
4.0x.7	3.30mm	69 73	14x2.0	12.00mm	72 76	
4.5x.75	30 3.70mm	73 74	14x1.5	15/32" 12.50mm	70 71	
4.3X.73	3.70mm 26	74 70	14x1.5 16x2.0	14.00mm	72	
5.0x.8	4.20mm	69	1072.0	35/64"	76	
0.07.0	19	68	16x1.5	14.50mm	70	
5.5x.9	4.60mm	68	18x2.5	15.50mm	73	
0.07.5	14	67	TOALIO	39/64"	74	
6.0x.75	5.30mm	74	18x1.5	16.50mm	70	
0.00	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	00 0 F	1-3/64"	73	
	J	66	33x3.5	29.50mm 1-11/64"	74 72	
Pipe Tap Drill Sizes						
Tap Size		NPT Tap Dr	ill	NPS Tap Drill		
1/16-27		D		1/4"		
1/8-27		Q		1/4		
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"		
4 4/4 44	1/0	1 01/642		1 1/02		

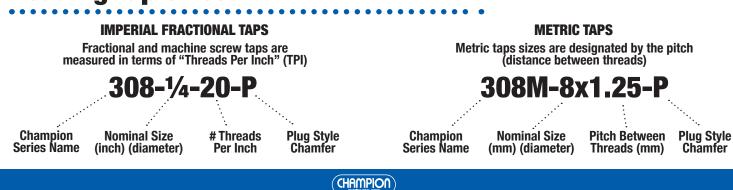
1-1/2"

1-3/4"

2-7/32"

2-21/32"

Reading Tap Sizes



1-1/4-11-1/2

1-1/2-11-1/2

2-11-1/2

2-1/2-8

1-31/64"

1-47/64

2-13/64"

2-5/8"

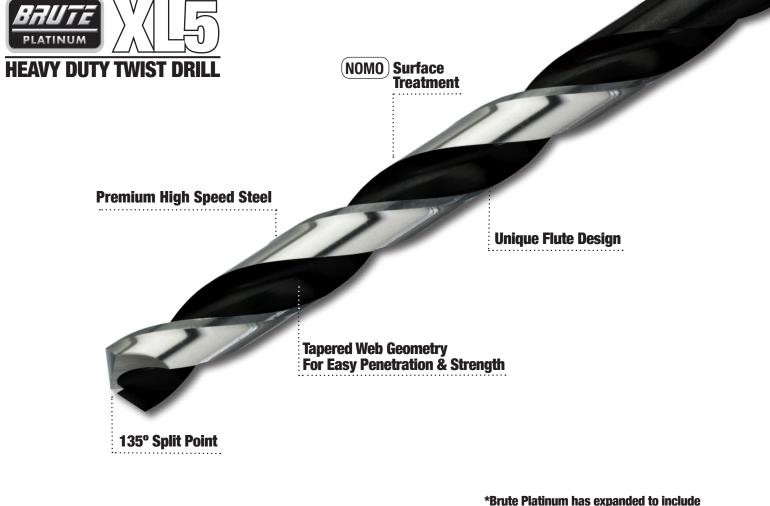


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