

CALIBER INDUSTRIAL SUPPLY
5500 TOMKEN ROAD, UNIT 2
MISSISSAUGA, ONTARIO
L4W 2Z4
sales@caliberindustrial.com
www.caliberindustrial.com

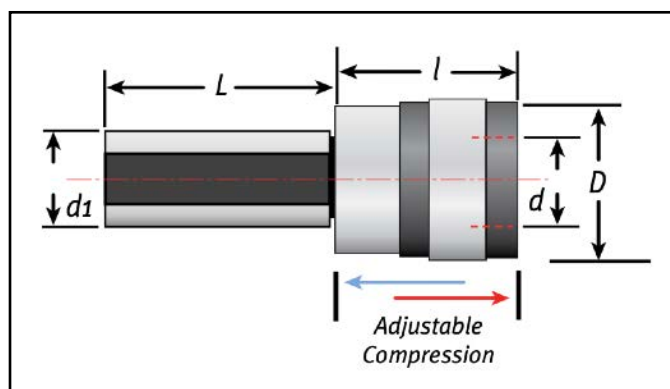
FALL 2020 PROMOTIONS

TOLL FREE 1(800) 465-5743
MISSISSAUGA (905) 624-5524
TORONTO (416) 626-7151



SCM

TENSION & COMPRESSION TAPPING CHUCKS



Part No.	Description	D1	D	I	L	Tap Capacity	Compensation		Regular Price	Sale Price
							Tension	Compression		
32400/INC1	1" Shank T/C Holder Size 1	1.00"	1.5"	1.76"	1.95"	0 - 9/16"	0.35"	0.35"	\$290	\$259
32600/INC1	1" Shank T/C Holder Size 2	1.00"	2.17"	2.52"	2.00"	5/16 - 7/8"	0.59"	0.59"	\$299	\$259
32600/INC1-1/2	1-1/2" Shank T/C Holder Size 2	1.50"	2.17"	2.52"	3.50"	5/16 - 7/8"	0.59"	0.59"	\$309	\$259

TAP COLLETS - ANSI and DIN in stock at Caliber!



Rigid Tap Collets
Size 1 \$32.30
Size 2 \$43.70
Buy 5 pieces
Get 6th Free!



Clutch Drive Tap Collets
Size 1 \$90.00
Size 2 \$106.00
Buy 3 pieces
Get 4th Free!

TiN COATED – HIGH PERFORMANCE Blades & Sets

These specially designed blades are TiN (Titanium Nitride) coated to face the challenges of deburring various materials such as steel, aluminum, copper, stainless steel and plastics. TiN coated blades provide up to 5 times the life of standard non-coated blades and are available in several different patterns to cover different applications.

TiN Coated MULTI-PACKS – “B” and “E” Series
Individual blades which fit into “B” and “E” holders and handles by SHAVIV. Multiple styles of blades cover several different deburring applications.

Part 29275
Standard Duty
TiN Coated “B”
MULTI-PACK Blade Set
List Price \$41.32
Special \$24.80
Includes : (2ea of B10P, B11P, B12P, B20P & B30P) “B” Style Blades



Part 29274
Heavy Duty
TiN Coated “E”
MULTI-PACK Blade Set
List Price \$51.58
Special \$30.95
Includes : (2ea of E100P, E110P, E111P, E200P & E300P) “E” Style Blades



TiN Coated Premium Kit for exotic materials
The Heavy Duty TiN Coated Premium Kit from SHAVIV contains extra durable TiN coated blades that can handle stainless steel & special metal alloy

Part 29272
TiN Coated
PREMIUM KIT
List Price \$67.31
Special \$40.39

Includes : Our Heavy Duty Aluminum Handle
As well as both “B” and “E” Blade Holders

Includes the following Blades
for precision and heavy duty work.
1ea of B10P, B11P, B20P & B30P “B” Style Blades &
1ea of E100P, E111P, E200P & E300P “E” Style



TiN Coated AEROBURR SETS

Customized for the unique applications required by aerospace industries. Contains thin nosed TiN coated blades that are designed to deburr curves and small holes at 1/16” (1.5mm)

Part 90110
Standard Duty
AeroBurr Set B11P
List Price \$30.16
Promotional Net \$18.09



Includes 1 Mango II Handle, “B”
Blade Holder & 5
B11P Blades TiN Coated



Part 90111
Heavy Duty
AeroBurr Set E111P
List Price \$33.11
Promotional Net \$19.87



Includes 1 Mango II Handle,
“E” Blade Holder &
5 E111P Blades



INTERRUPTED THREAD NPT PIPE TAPS

*Economically priced NPT pipe taps with an interrupted thread form that helps reduce the tap drag making tapping taper threads easier.
Steam oxide surface treatment on a vanadium tap.*



Part Number	Nominal Size	Threads Per Inch	Number of Flutes	Length of Thread	Overall Length	Sale Price
161-383151	1/8" (Large shank)	27	5	3/4"	2-1/8"	\$33.58
161-383152	1/8" (Small shank)	27	5	3/4"	2-1/8"	\$33.58
161-383153	1/4"	18	5	1-1/16"	2-7/16"	\$38.28
161-383154	3/8"	18	5	1-1/16"	2-9/16"	\$46.18
161-383155	1/2"	14	5	1-3/8"	3-1/8"	\$75.23
161-383156	3/4"	14	5	1-3/8"	3-1/4"	\$108.97
161-383157	1"	11.5	5	1-3/4"	3-3/4"	\$167.52
161-383158	1-1/4"	11.5	5	1-3/4"	4"	\$228.96
161-383159	1-1/2"	11.5	7	1-3/4"	4-1/4"	\$310.40
161-383160	2"	11.5	7	1-3/4"	4-3/4"	\$418.54

N-RZ ROLLFORM TAPS

Blended vanadium HSS with steam oxide treatment for improved rollform tapping in alloy steels and stainless steel. Taps are DIN length with an ANSI shank. N-RZ taps should be ran 50% quicker than cut taps



Part Number	Nominal Size	Limit	No. of Lube Grooves	Length of Thread	Neck Length	Overall Length	Sale Price
161-389422	4-40 UNC	H5	0	.433"	.276"	2.205"	\$18.50
161-389426	4-48 UNF	H5	0	.433"	.276"	2.205"	\$18.50
161-389430	5-40 UNC	H5	4	.433"	.276"	2.205"	\$18.50
161-389434	5-44 UNF	H5	4	.433"	.276"	2.205"	\$18.00
161-389438	6-32 UNC	H5	4	.512"	.276"	2.205"	\$15.11
161-389443	6-40 UNF	H5	4	.512"	.276"	2.205"	\$15.11
161-389447	8-32UNC	H5	4	.512"	.315"	2.480"	\$15.11
161-389451	8-36 UNF	H5	4	.512"	.315"	2.480"	\$15.11
161-389455	10-24 UNC	H6	4	.630"	.354"	2.756"	\$15.11
161-389459	10-32 UNF	H6	4	.630"	.354"	2.756"	\$15.11
161-389463	12-24 UNC	H6	4	.630"	.354"	3.150"	\$18.22
161-389467	12-28 UNF	H6	4	.630"	.354"	3.150"	\$18.22
161-389471	1/4-20 UNC	H6	4	.748"	.433"	3.150"	\$15.53
161-389475	1/4-28 UNF	H6	4	.748"	.433"	3.150"	\$15.53
161-389479	5/16-18 UNC	H7	3	.866"	.512"	3.543"	\$17.82
161-389483	5/16-24 UNF	H7	3	.866"	.512"	3.543"	\$17.82
161-389487	3/8-16 UNC	H7	3	.945"	.597"	3.937"	\$26.31
161-389491	3/8-24 UNF	H7	3	.787"	.748"	3.543"	\$26.31
161-389495	7/16-14 UNC	H7	4	.945"	-	3.937"	\$40.17
161-389499	7/16-20 UNF	H7	4	.945"	-	3.937"	\$40.17
161-389505	1/2-13 UNC	H7	4	1.142"	-	4.331"	\$46.07
161-389509	1/2-20 UNF	H7	4	.866"	-	3.937"	\$46.07
161-389512	M3 x 0.5	D5	4	.433"	.276"	2.205"	\$22.36
161-389516	M4 x 0.7	D6	4	.512"	.315"	2.480"	\$19.57
161-389518	M5 x 0.8	D7	4	.630"	.354"	2.756"	\$19.57
161-389520	M6 x 1	D8	4	.748"	.433"	3.150"	\$19.57
161-389526	M8 x 1.25	D9	3	.866"	.512"	3.543"	\$22.36
161-389530	M10 x 1.5	D10	4	.945"	.591"	3.937"	\$36.85
161-389534	M12 x 1.75	D11	4	1.142"	-	4.331"	\$44.53

15% OFF YAMAWA ROLLFORM AND PIPE TAPS

TAP-RITE TAPPING SYSTEMS

Our most popular sellers! A complete package includes articulating arm, tapping motor, FRL, tap chuck, tool holder, standard mounting post and air line exhaust kit. Ideal for tapping & chasing applications. Also popular for assembly, drilling, reaming, chamfering, countersinking, deburring, and more!

**TAP UP TO
1.1/8"**



**COMPLETE
TAPPING SYSTEM
FOR AS LOW AS
\$1.975.00**

**TAP UP TO
1/2"**



WESPRO POWER TOOLS

**\$69.66
DG22GS**

Order No. 149972

**1/4" Die Grinder Insul Grip .5 HP 22,000 RPM
Directional Rear Exhaust Safety Lever**

- 3 Ball bearings construction for extended tool life
- Directional rear exhaust
- Built-in air regulator for positive speed control
- Insulated grip



**\$101.83
DG22AGS**

Order No. 161251

**1/4" Angle Die Grinder Insul Grip .3 HP 22,000 RPM
Directional Rear Exhaust Safety Lever**

- 5 Ball bearings construction for extended tool life
- Directional rear exhaust
- Built-in air regulator for positive speed control
- Flush grease fitting in gear casing



**\$87.55
DGA105GL**

Order No. 314163

**1/4" Gearless Angle Die Grinder 105 degree .3 HP
25,000 RPM Rear Exhaust Safety Lever**

- Gearless Mechanism
- High-quality steel motor cylinder
- Built-in air regulator for positive speed control
- Lightweight and compact design



**\$113.58
MG58BMPK**

Order No. 142389

1/8" Micro Die Grinder Kit 58,000 RPM

- High-quality steel motor cylinder
- Precision ball bearing construction for longer tool life
- Piped-away exhaust directs air away from work surface, reducing noise by 20-30%
- Variable-speed throttle for positive speed control



MiTM & TM Standard

Indexable Thread Milling Inserts

25% Off

When purchasing **20 TM Standard** and **MiTM** inserts of the **same** item*

* Standard catalog MiTM & TM Standard inserts only.
TMSD inserts and MiTM Offset inserts are not included.

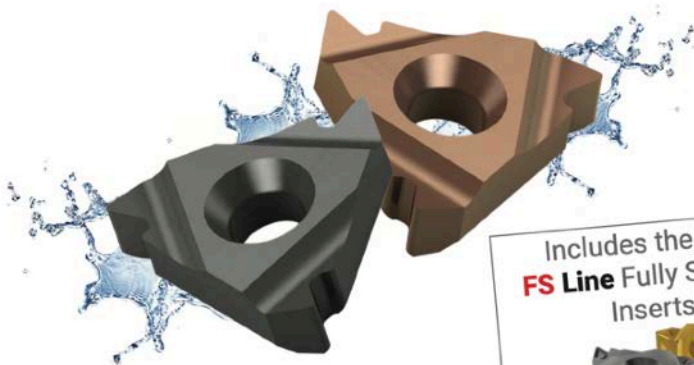


TM Solid

Solid Carbide Thread Milling Tools



Thread Turning Laydown Inserts



Includes the **NEW**
FS Line Fully Sintered
Inserts!



25% Off

When purchasing **20** Standard **Laydown** Thread Turning inserts of the **same** item*

* Offer applies to standard catalog inserts in sizes 2, 3, & 4 only

15% Off

When purchasing
2 TM Solid tools
of the **same** item*

25% Off

When purchasing
4 TM Solid tools
of the **same** item*

* HTC tools are not included

MVX INDEXABLE DRILL PROMOTION

HURRY! Promotion Ends December 31, 2020

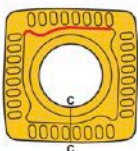
Highly rigid body produced by utilizing the latest technology

INSERT SELECTION CRITERIA

	1st Recommendation		When Outer Insert Fractures	
	Outer Insert	Inner Insert	Outer Insert	Inner Insert
P Mild Steels, Alloy Steels	MC1020 	VP15TF 	VP15TF 	VP15TF 
	UM Breaker 	UM Breaker 	UM Breaker 	UM Breaker 
M Stainless Steels	MC1020 	VP15TF 	VP15TF 	VP15TF 
	UM Breaker 	US Breaker 	UM Breaker 	US Breaker 
K Cast Irons	MC5020 	VP15TF 	VP15TF 	VP15TF 
	UM Breaker 	UM Breaker 	UM Breaker 	UM Breaker 
H Hardened Steels	MC1020 	DP8020 	VP15TF 	DP8020 
	UM Breaker 	UH Breaker 	UM Breaker 	UH Breaker 
N Aluminum Alloys	TF15 	TF15 		
	UN Breaker 	UN Breaker 		

UM BREAKER FEATURES

For General Use, Medium and High Feed Rates



- The unique wave design allows smooth chip discharge.
- An ideal universal breaker for steels, stainless steels, cast irons and hardened steels.

INSERT GRADES FEATURES

MC1020 is a CVD coated grade for higher cutting speeds. The main properties are high wear and high plastic deformation resistance for reliability.

MC5020 is a CVD coated grade suitable for drilling cast irons. It has excellent abrasion resistance and gives long tool life by controlling chipping and thermal cracking that can occur when drilling nodular cast irons.

VP15TF is a PVD coated grade suitable for a wide range of applications. The micro-grain substrate and Miracle coating provide excellent welding resistance.

4 CUTTING EDGES

- Economical 4-corner insert.

IDEAL COMBINATION OF OUTER CVD & INNER PVD INSERT

- A highly wear resistant CVD coated insert is used for the peripheral edge and a PVD coated insert is used for the inner position for extra stability.

UNIQUE CHIP BREAKER DESIGN

- For a wide range of workpiece materials and applications.

WIPER EDGE

- A wiper type geometry for the peripheral cutting edge achieves excellent wall accuracy.

HIGH RIGID BODY

- Increased surface hardness prevents abrasive damage caused by chip flow.
- Optimum insert position controls deformation and vibration of the holder. This enabled a maximum drilling depth of L/D=6.

The peripheral cutting speed is naturally slower towards the center of the drill and chip welding easily occurs. Below are some important information that will help to select the correct insert

Steels and Cast Irons

The preferred breaker for steels and cast iron is the UM breaker. For the outer edge, use the CVD coated grade MC1020 for steel applications and the MC5020 grade for cast irons. For the inner edge, the PVD coated grade VP15TF should be used. If fracturing occurs, VP15TF should be used for both positions to provide extra stability.

Stainless Steels

For the best performance, use the UM breaker in the peripheral edge and the US breaker in the inner edge. The selection of grade should be the same as used for steels.

Hardened Steels and Preventing Fracture

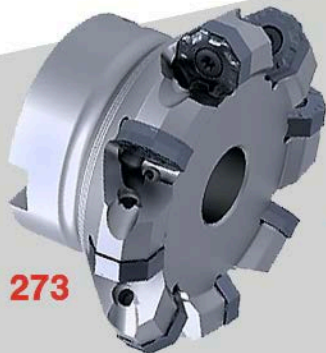
For the inner edge, UH is the ideal breaker. The high-strength, negative land edge, together with the durable PVD coated carbide grade DP8020, are suitable for machining hardened steels (45HRC or lower) and preventing fracture in steels and cast irons.

Aluminum Alloys Processing

For both the inner and outer edges, UN breakers are ideal. The polished finish and peripheral polishing prevent welding, and the combination of the positive lands and high rake angle further enhances the sharpness.

** Please note that all red text grades and breakers are not included in the promotion kits and can be purchased at additional cost. Promotional kits cannot be substituted or switched out for other breakers or grades.

Drill Diameters	Available Lengths				
	2 x D	3 x D	4 x D	5 x D	6 x D
0.687"	\$475	\$475	\$500	\$550	\$550
0.750"	\$475	\$475	\$500	\$550	\$550
0.812"	\$475	\$475	\$500	\$550	\$550
0.875"	\$475	\$500	\$500	\$550	\$625
0.937"	\$500	\$500	\$500	\$550	\$625
1"	\$500	\$500	\$550	\$625	\$650
1.062"	\$500	\$500	\$550	\$625	\$650
1.125"	\$500	\$500	\$550	\$625	\$650
1.187"	\$500	\$500	\$550	\$625	\$675
1.25"	\$500	\$550	\$550	\$625	\$675
1.312"	\$500	\$550	\$550	\$625	\$675
1.375"	\$550	\$550	\$550	\$625	\$675
1.437"	\$550	\$550	\$550	\$625	\$675
1.500"	\$550	\$550	\$625	\$625	\$700
1.562"	\$550	\$550	\$625	\$625	\$700
1.625"	\$550	\$550	\$625	\$650	\$725
1.687"	\$550	\$550	\$625	\$650	\$725
1.750"	\$550	\$575	\$625	\$675	N/A
1.812"	\$550	\$575	\$625	\$675	N/A
1.875"	\$550	\$625	\$650	\$700	N/A
1.937"	\$550	\$625	\$650	\$725	N/A
2"	\$550	\$625	\$675	\$750	N/A
2.125"	\$625	\$675	\$675	\$750	N/A
2.25"	\$625	\$675	\$700	\$775	N/A
2.375"	\$625	\$700	\$750	\$800	N/A
2.5"	\$650	\$700	\$750	\$825	N/A



273



491



211



HFC

Receive
1 FREE*
 Cutter Body
 when you buy
20 inserts
 per inch

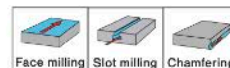
- *Must purchase 20 inserts per inch of the diameter of the free cutter body. No limit on cutter bodies received.
- Promotional orders must ship directly to the end-user.
- Tools ordered via this promotion cannot be returned.

- Does not apply to MaxiMill 211 helical cutters.
- All UPS ground shipments are free of charge.
- Normal payment terms apply.
- Promotional details subject to change without notice.
- This offer cannot be combined with other offers.
- Offer not available for blanket orders.

MAXIMILL INDEXABLE MILLING

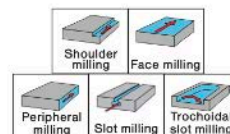
MaxiMill 273 - a 45° cutter with 16 cutting edges per insert

- ▲ Versatile design for roughing or finishing
- ▲ Superior productivity with up to a .197" depth of cut
- ▲ High-quality finish thanks to the Masterfinish wiper insert design
- ▲ Broad grade and chip breaker selection



MaxiMill 491 - a 90° cutter with 8 cutting edges per insert

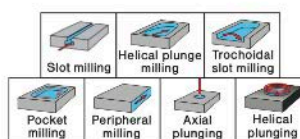
- ▲ True 90° geometry produces excellent shoulder finishes
- ▲ Precise insert and cutter design offers repeatability to .0008"
- ▲ Close and regular pitch cutter designs for different machine capabilities
- ▲ High-quality finish thanks to the Masterfinish wiper insert design



MaxiMill 211 - 90° long-edge cutter with 2 cutting edges per insert

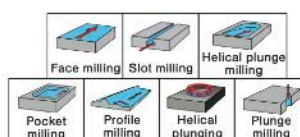
Two insert sizes available for promotion - 11mm and 15mm

- ▲ Long-edge inserts provide maximum depth of cut
- ▲ Notched insert design for radial force management
- ▲ Stable in long reach applications
- ▲ Complete grade and chip breaker selection



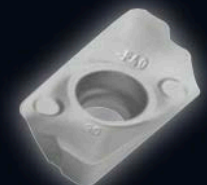
MaxiMill HFC - High-feed cutter with 4 cutting edges per insert

- ▲ Irregular pitch to minimize vibration
- ▲ Minimal radial load for reduced vibration and stability in the cut
- ▲ Large radius geometry for higher productivity
- ▲ Feeds up to .120" possible for maximum metal removal rates



**Game Of Thrones
may be over but
Ceratizit has
DRAGONSKIN!**

**Buy the new
DRAGONSKIN
coated inserts
and get free
milling cutter
bodies**



**ALL MILLING CUTTERS IN
CERATIZIT RANGE ARE
AVAILABLE ON THE PROMOTION**

SPECIAL OFFER

Discount Prices are on select items

Sourced and Made in USA

Our End Mills cover a broad range of applications and have advanced edge and flute preparations, all manufactured in the USA.

Buy 3 get one FREE!*

- ▲ Micro/Decimal: P501, P503, P504, P506
- ▲ Steels, High-Temp Alloys & Titanium: P007, P120, P556, S644
- ▲ Aluminum Alloys & Non-Ferrous Materials: P362, P109
- ▲ Unique offering of metric sizes - call your CERATIZIT Sales Engineer for details.
- ▲ *Free End Mill must be of equal or lesser value than any of the three End Mill purchased, no size limitation
- ▲ One Free End Mill per three End Mills Purchased
- ▲ Tools ordered via this promotion cannot be returned
- ▲ All shipments are free of charge



Offer valid until 12.31.2020

CERATIZIT END MILLS

Enter The Dragon!
New DRAGONSKIN coated end mills from
CERATIZIT



LEGENDARY
PERFORMANCE
DRAGONSKIN

DRAGONSKIN

DRAGONSKIN materials technologies

CERATIZIT's Dragonskin materials technologies offer you the highest level of protection against wear and are designed with an impenetrable layer for the most adverse requirements.

The perfect combination of state-of-the-art, high-performance substrates and coating structures enable high cutting speeds and increased process reliability. Get proven - up to 80% - increased performance through the latest Dragonskin coating technology that offers you a significant competitive advantage.

All products that are marked with the Dragonskin logo represent unmatched performance, maximum tool life and maximum process reliability.



SWISS MADE



GIROD INDICATORS

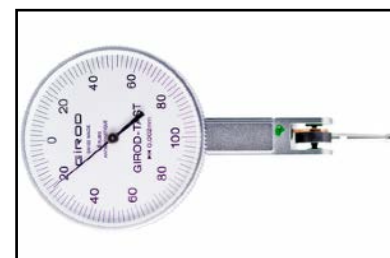
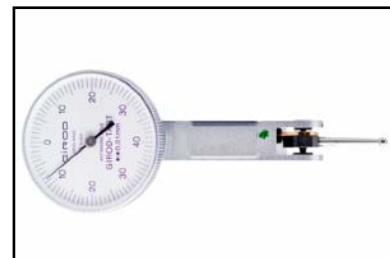
Swiss Made Test Indicators for half the price of an Interapid!

**10%
OFF
NORMAL
PRICE**

Horizontal Indicators

Part Number	Reading	Bezel Ø	Regular Price	Sale Price
302-GT1252AR	0.0005"	1"	\$165	\$148
302-GT1253AR	0.0001"	1"	\$192	\$173
302-GT1254AR	0.0001" (Long Stylus)	1"	\$223	\$201

Part Number	Reading	Bezel Ø	Regular Price	Sale Price
302-GT1452AR	0.0005"	1-1/2"	\$180	\$162
302-GT1453AR	0.0001"	1-1/2"	\$211	\$190
302-GT1454AR	0.0001" (Long Stylus)	1-1/2"	\$244	\$220



Vertical Indicators

Part Number	Reading	Bezel Ø	Regular Price	Sale Price
302-GT1272AR	0.0005"	1"	\$206	\$185
302-GT1273AR	0.0001"	1"	\$249	\$224
302-GT1274AR	0.0005" - Long Stylus	1"	\$280	\$252

Part Number	Reading	Bezel Ø	Regular Price	Sale Price
302-GT1472AR	0.0005"	1-1/2"	\$228	\$205
302-GT1473AR	0.0001"	1-1/2"	\$272	\$245
302-GT1474AR	0.0005" - Long Stylus	1-1/2"	\$308	\$277

← 302-GT.3962.1272AR

Vertical Girod Test indicator kit complete with indicator (GT1272AR), centering support (GT.3934), cylindrical shank (GT.3914) all in a wooden kit box.

302-GT.3963.1252AR →

Horizontal Girod Test indicator kit complete with indicator (GT1252AR), swivel support with magnetic base (GT.3942), cylindrical shank (GT.3914) all in a wooden kit box.



**\$325
\$292**



**\$398
\$358**

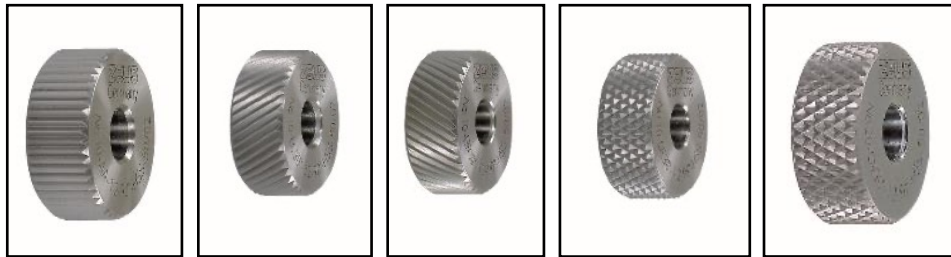
FOCUS ON KNURLING

Zeus Single Wheel Form Knurling Tools

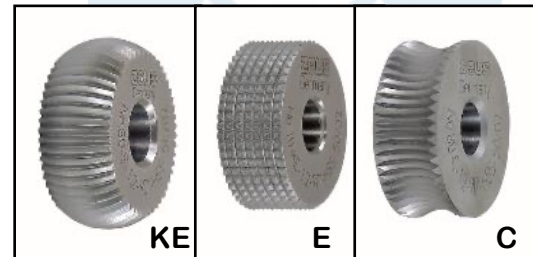
Cost effective solution general purpose and low volume parts



Available Standard Wheel Forms 20x8x6 PM **\$33.75** each



Special Form Wheels Upon Request



Zeus Double Wheel Form Knurling Tools

When a higher quality knurl or higher productivity is needed



Standard Wheel Forms Available

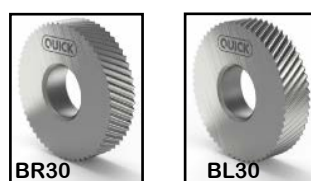


Central Knurling Wheels 20x8x6 PM **\$33.75** each

Shoulder Knurling Wheel 20x8x6A13 PM **\$43.20** each

Zeus and Quick Cut Knurling Tools

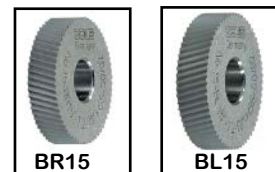
When a top quality knurl is required on a tight tolerance part.



21.5x5x8 PM Wheels Available

\$41.85 each

Zeus Double Wheel Cut Knurling Tool



25X6X8 PM Wheels Available
\$33.75 each





Eco

Standard

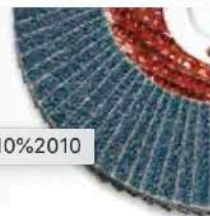
Jumbo

2500 (Ceramic)

The innovative abrasive
for a fast removal rate

2824 siaflap Eco (Zirconia)

High-performance flap
discs for high-alloy steel



2824 siaflap Jumbo (Zirconia)

A high-performance
product for industrial needs.

2824 siaflap Standard (Zirconia)

A tool for series processing
with very high strength.

2500	Ceramic (fiber glass)					
	Diameter	Grit	Part Number	Case	Sleeve	Retail Price \$
	Angled (T29)					
	4-1/2" x 7/8" (115 x 22 mm)	36	074E.0036	60	10	8.27
		40	074E.0040	60	10	8.27
		60	074E.0060	60	10	8.27
		80	074E.0080	60	10	8.27
		120	074E.0020	60	10	8.00
	5" x 7/8" (125 x 22 mm)	36	076E.0036	60	10	10.97
		40	076E.0040	60	10	10.97
		60	076E.0060	60	10	10.97
		80	076E.0080	60	10	10.97
	Flat (T27)					
	4-1/2" x 7/8" (115 x 22 mm)	40	072E.0040	60	10	8.27
		60	072E.0060	60	10	8.27
	5" x 7/8" (125 x 22 mm)	40	075E.0040	60	10	11.00
		46	075E.0060	60	10	11.00
		80	075E.0080	60	10	11.00

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2824 Eco	Zirconia (fiber glass)					
	Diameter	Grit	Part Number	Case	Sleeve	Retail Price \$
	Angled (T29)					
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.4901	60	10	4.20
		60	0020.5456	60	10	4.20
		80	0020.5771	60	10	4.20
	5" x 7/8" (125 x 22 mm)	40	0020.4900	60	10	5.55
		60	0020.5457	60	10	5.55
		80	0020.5772	60	10	5.55
	Flat (T27)					
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.4373	60	10	6.05
		60	0020.4375	60	10	6.05
		80	0020.4376	60	10	6.05
		120	0020.4377	60	10	6.05
	5" x 7/8" (125 x 22 mm)	40	0020.4399	60	10	8.03
		60	0020.4401	60	10	8.03
		80	0020.4402	60	10	8.03
		120	0020.4403	60	10	8.03

2824 Jumbo	Zirconia (fiber glass)					
	Diameter	Grit	Part Number	Case	Sleeve	Retail Price \$
	Angled (T29)					
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.2922	60	10	7.57
		60	0020.2923	60	10	7.57
		80	0020.2924	60	10	7.57
	5" x 7/8" (125 x 22 mm)	40	0020.3021	60	10	10.03
		60	0020.3022	60	10	10.03
		80	0020.3023	60	10	10.03
	Flat (T27)					
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.2651	60	10	6.05
		60	0020.2653	60	10	6.05
		80	0020.2655	60	10	6.05
		120	0020.2677	60	10	6.05
	5" x 7/8" (125 x 22 mm)	40	0020.2657	60	10	8.03
		60	0020.2659	60	10	8.03
		80	0020.2661	60	10	8.03
		120	0020.2680	60	10	8.03
	7" x 7/8" (180 x 22 mm)	40	0020.3025	30	5	14.13
		60	0020.3027	30	5	14.13
		80	0020.3028	30	5	14.13

2824 standard	Zirconia (fiber glass)					
	Diameter	Grit	Part Number	Case	Sleeve	Retail Price \$
	Flat (T27)					
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.4373	60	10	6.05
		60	0020.4375	60	10	6.05
		80	0020.4376	60	10	6.05
		120	0020.4377	60	10	6.05
	5" x 7/8" (125 x 22 mm)	40	0020.4399	60	10	8.03
		60	0020.4401	60	10	8.03
		80	0020.4402	60	10	8.03
		120	0020.4403	60	10	8.03
	Angled (T29)					
	4" x 5/8" (100 x 15 mm)	36	073E.0036		5	5.80
		80	073E.0080		5	5.80
	4-1/2" x 7/8" (115 x 22 mm)	40	0020.2651	60	10	6.05
		60	0020.2653	60	10	6.05
		80	0020.2655	60	10	6.05
		120	0020.2677	60	10	6.05
	5" x 7/8" (125 x 22 mm)	40	0020.2657	60	10	8.03
		60	0020.2659	60	10	8.03
		80	0020.2661	60	10	8.03
		120	0020.2680	60	10	8.03
	7" x 7/8" (180 x 22 mm)	40	0020.3025	30	5	14.13
		60	0020.3027	30	5	14.13
		80	0020.3028	30	5	14.13

*While quantities last

4570 siabiteX	Ceramic					
	Size	Grit	Part Number	Case	Sleeve	Retail Price \$
	4" x 5/8" (100 x 16 mm)	36	5369.8301.0036	200	50	1.26
		60	5369.8301.0060	200	50	1.19
		80	5369.8301.0080	200	50	0.96
		120	5369.8301.0120	200	50	0.96
	4-1/2" x 7/8" (115 x 22 mm)	36	1737.3366.0036	200	50	1.62
		60	1737.3366.0060	200	50	1.52
		80	1737.3366.0080	200	50	1.23
		120	1737.3366.0120	200	50	1.23
	5" x 7/8" (125 x 22 mm)	36	1935.3923.0036	200	50	1.90
		60	1935.3923.0060	200	50	1.77
		80	1935.3923.0080	200	50	1.43
		120	1935.3923.0120	200	50	1.43
	7" x 7/8" (180 x 22 mm)	36	1426.9972.0036	200	50	3.81
		60	1426.9972.0060	200	50	3.54
		80	1426.9972.0080	200	50	2.83
		120	1426.9972.0120	200	50	2.83

Back Pads for Fiber discs (5/8" - 11)						
	Size	Hardness	Max RPM	Part Number	Sleeve	Retail Price \$
	4" (100 mm)	Hard	13 000	114F.0100	1	35.01
	4-1/2" (115 mm)	Hard	13 000	2611.8981	1	24.29
	5" (125 mm)	Hard	12 000	0020.0431	1	18.69
	7" (180 mm)	Hard	8 500	0020.0432	1	21.57

Turbo I Pads for Fiber discs (5/8" - 11)						
	Size	Hardness	Max RPM	Part Number	Sleeve	Retail Price \$
	5" (125 mm)	Hard	12 000	0020.3718	1	18.69
	7" (180 mm)	Hard	8 500	0020.3720	1	21.57

Turbo II Pads for Fiber discs (5/8" - 11)						
	Size	Hardness	Max RPM	Part Number	Sleeve	Retail Price \$
	4-1/2" (115 mm)	Hard	13 000	0020.8418	1	16.82
		Dur				
	5" (125 mm)	Hard	12 000	0020.8419	1	19.27
	7" (180 mm)	Hard	8 500	0020.8420	1	27.84

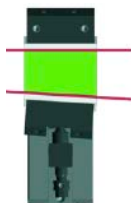
6120 siavlies		Aluminum Oxide						
		Size	Color	Grit	Part Number	Case	Sleeve	Retail Price \$
	6" x 9" (152 x 229 mm)	Tan	080	4132.9840.2922	200	10	1.48	
		Green	100	4132.9840.4923	200	10	0.89	
		Maroon	120	4132.9840.4922	200	10	0.89	
		Maroon	320	4132.9840.6932	200	10	0.89	
		Silicone Carbide						
	6" x 9" (152 x 229 mm)	Black	080	4132.9840.2721	200	10	1.72	
		Black	110	4132.9840.4721	200	10	1.48	
		Grey	600	4132.9840.8711	200	10	0.89	
		Grey	800	4132.9840.8712	200	10	0.89	

2915 siarol	Aluminum Oxide (j-cloth)					
	Size	Grit	Part Number	Case	Sleeve	Retail Price \$
	1" x 55 yds (25 mm x 50 m)	040	0430.8219.xxxx	200	50	36.37
		060				30.69
		080 - 400				25.09
	1-1/2" x 55 yds (38 mm x 50 m)	040	0388.1861.xxxx	200	50	51.70
		060				42.68
		080 - 400				34.57
	2" x 55 yds (50 mm x 50 m)	040	3415.8417.xxxx	200	50	66.28
		060				55.15
		080 - 400				44.03

Usage Guide	
Type of Pad	Grit
Plain	100 - 120
Turbo I	50 - 80
Turbo II	36 - 60



**While quantities last*



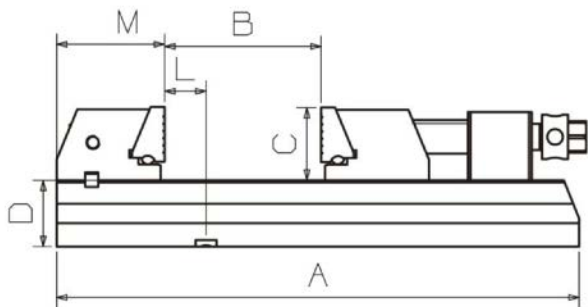
FORZA VICE CLEAROUT

GET ONE OF THE BEST VICES IN THE WORLD AT A REDUCED PRICE

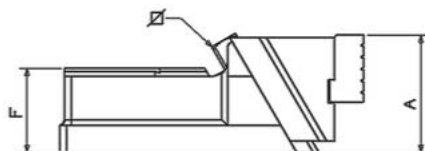


SERIES 30 PERFECT DESCENDING MACHINE VICE

The Forza Series 30 machine vice is simply the best blocking up vice available. Similar in looks to the Gerardi style vices that are very popular, but that is where the similarity ends. The jaws have a descending effect when clamping the workpiece forcing the part down in the vice. Hardened to 60HRc making the vice very hard wearing and long lasting. The key feature of the Series 30 vice is the adaptive moving jaw which pivots to the shape of the workpiece. This ensures totally square clamping of the part against the fixed jaw which will lead to perfectly squared up parts.



Part Number	Width	B	A	C	D	Normal Price	Clearance Price	Quantity Available
322-30/150	150mm	200mm	402mm	56mm	51mm	\$1,225	\$849	6
322-30/150L	150mm	250mm	452mm	56mm	51mm	\$1,295	\$899	4
322-30/150S	150mm	300mm	502mm	56mm	51mm	\$1,649	\$999	2



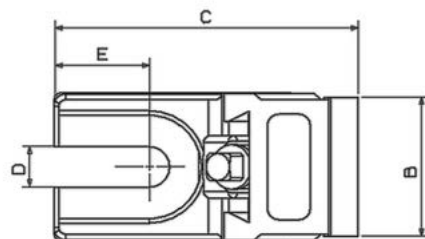
Nuzzler Style Clamp Part No. 322-34/60

\$149

(Normal Price \$499)

A=50-68mm B=60mm
C=135mm D=18mm

Price is for a pair of clamps
One set available



VICE CLAMPING BLOCKS

Both blocks have 16mm/5/8" holes
Price is for a pair of blocks

322-15061 For 4 & 5" Wide vices
Sale Price \$39
(Normally \$89)
5 Sets Available

322-20061 For 6" and wider vices
Sale Price \$39
(Normally \$98)
6 Sets Available



Jergens

LIFT-CHECKTM

HOIST RINGS



**Red indicates
Loose**



**Black indicates
Tight**



STANDARD U-BAR

Part Number	Thread	Thread Length	Load Capacity	Price
247-23410LC	1/2"-13UN	1-1/16"	2,500 lbs.	\$160.75
247-23411LC	1/2"-13UN	3/4"	2,500 lbs.	\$160.75
247-23412LC	1/2"-13UN	1"	2,500 lbs.	\$160.75
247-23413LC	1/2"-13UN	1-1/4"	2,500 lbs.	\$160.75
247-23414LC	5/8"-11UN	1"	4,000 lbs.	\$160.75
247-23415LC	5/8"-11UN	1-1/4"	4,000 lbs.	\$160.75
247-23416LC	5/8"-11UN	3/4"	4,000 lbs.	\$160.75
247-23417LC	3/4"-10UN	1"	5,000 lbs.	\$160.75
247-23418LC	3/4"-10UN	1-1/2"	5,000 lbs.	\$160.75
247-23420LC	3/4"-10UN	1"	7,000 lbs.	\$360.50
247-23421LC	3/4"-10UN	1-1/2"	7,000 lbs.	\$360.50
247-23423LC	7/8"-9UN	1"	8,000 lbs.	\$360.50
247-23424LC	7/8"-9UN	1-1/4"	8,000 lbs.	\$360.50
247-23425LC	1"-8UN	1-1/4"	10,000 lbs.	\$360.50
247-23426LC	1"-8UN	1-1/2"	10,000 lbs.	\$360.50
247-23427LC	1"-8UN	2-1/4"	10,000 lbs.	\$360.50
247-23429LC	1-1/4"-7UN	1-7/8"	15,000 lbs.	\$585.35
247-23429-08LC	1-1/4"-8UN	1-7/8"	15,000 lbs.	\$585.35
247-23433LC	1-1/2"-6UN	2-3/4"	24,000 lbs.	\$770.55
247-23433-08LC	1-1/2"-8UN	2-3/4"	24,000 lbs.	\$770.55
247-23435LC	2"-4-1/2UN	3-1/8"	30,000 lbs.	\$948.60
247-23435-08LC	2"-8UN	3-1/8"	30,000 lbs.	\$948.60
247-23465LC	M16	29mm	1,700 kg	\$160.75
247-23468LC	M20	34mm	2,150 kg	\$160.75
247-23471LC	M20	32mm	3,000 kg	\$360.50
247-23474LC	M24	37mm	4,200 kg	\$360.50
247-23478LC	M30	46mm	7,000 kg	\$585.35
247-23479LC	M30	66mm	7,000 kg	\$585.35
247-23483LC	M36	68mm	11,000 kg	\$770.55
247-23484LC	M42	68mm	12,500 kg	\$899.00
247-23485LC	M48	88mm	13,500 kg	\$948.60



Take the doubt out... with Jergens' built-in Tension Indication System

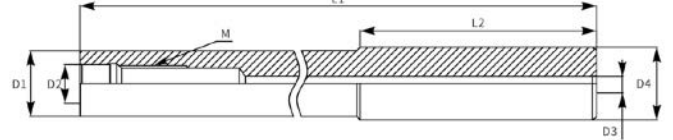
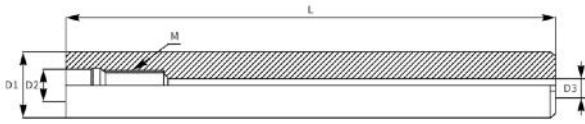
The NEW Jergens Lift-CheckTM hoist ring assures that your application is secure and ready to lift. The Lift-CheckTM is comprised of a Jergens' patent pending proprietary hex head cap screw which integrates the Visual Tension Indicator.

- » Patent pending Lift-CheckTM Center Pull Hoist Rings are rated at 5:1 strength Factor & Proof tested to 200% of rated load capacity, certificate of proof test provided, in accordance with ASME B30.26.
- » Visual Tension Indicator confirms engagement – clearly illustrates whether bolt joint is loose or tight.
- » Ensures safety and provides accuracy of +/- 10% of designed tension
- » Hands-free inspection at a distance, prior to the lift
- » Reduces installation time
- » No torque wrench or calibration needed
- » Patent pending Lift CheckTM Bolt conforms to the chemical and physical requirements of ASTM A574 standards
- » Lift-CheckTM bolts are reusable and provide reliable visual indication of joint clamping force. Bolt kits available for Jergens hoist ring upgrades.

LONG U-BAR

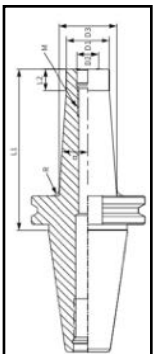
Part Number	Thread	Thread Length	Load Capacity	Price
247-23511LC	1/2"-13UN	3/4"	2,500 lbs.	\$176.05
247-23512LC	1/2"-13UN	1"	2,500 lbs.	\$176.05
247-23513LC	1/2"-13UN	1-1/4"	2,500 lbs.	\$176.05
247-23514LC	5/8"-11UN	1"	4,000 lbs.	\$176.05
247-23515LC	5/8"-11UN	1-1/4"	4,000 lbs.	\$176.05
247-23516LC	5/8"-11UN	3/4"	4,000 lbs.	\$176.05
247-23517LC	3/4"-10UN	1"	5,000 lbs.	\$176.05
247-23518LC	3/4"-10UN	1-1/2"	5,000 lbs.	\$176.05
247-23520LC	3/4"-10UN	1"	7,000 lbs.	\$360.50
247-23521LC	3/4"-10UN	1-1/2"	7,000 lbs.	\$360.50
247-23523LC	7/8"-9UN	1"	8,000 lbs.	\$360.50
247-23524LC	7/8"-9UN	1-1/4"	8,000 lbs.	\$360.50
247-23525LC	1"-8UN	1-1/4"	10,000 lbs.	\$360.50
247-23526LC	1"-8UN	1-1/2"	10,000 lbs.	\$360.50
247-23527LC	1"-8UN	2-1/4"	10,000 lbs.	\$360.50
247-23565LC	M16	29mm	1,700 kg	\$176.05
247-23571LC	M20	32mm	3,000 kg	\$386.50
247-23574LC	M24	37mm	4,200 kg	\$386.50

CARBIDE SHANKS FOR SCREW ON HEADS



Part Number	Item Number	Thread	Length	Shank	Price
317-500-101	HWS08-M04-75	M4	75mm	8mm	\$130.30
317-500-102	HWS08-M04-100	M4	100mm	8mm	\$120.32
317-500-103	HWS10-M05-75	M5	75mm	10mm	\$150.02
317-500-104	HWS10-M05-100	M5	100mm	10mm	\$139.01
317-500-105	HWS10-M05-125	M5	125mm	10mm	\$185.34
317-500-106	HWS10-M05-150	M5	150mm	10mm	\$174.34
317-500-107	HWS10-M06-75	M6	75mm	10mm	\$150.02
317-500-108	HWS10-M06-100	M6	100mm	10mm	\$139.10
317-500-109	HWS10-M06-125	M6	125mm	10mm	\$185.34
317-500-110	HWS10-M06-150	M6	150mm	10mm	\$174.34
317-500-111	HWS12-M06-75	M6	75mm	12mm	\$151.30
317-500-112	HWS12-M06-100	M6	100mm	12mm	\$142.34
317-500-113	HWS12-M06-125	M6	125mm	12mm	\$218.37
317-500-114	HWS12-M06-150	M6	150mm	12mm	\$207.36
317-500-115	HWS16-M08-100	M8	100mm	16mm	\$184.51
317-500-116	HWS16-M08-150	M8	150mm	16mm	\$212.74
317-500-117	HWS16-M08-200	M8	200mm	16mm	\$282.24
317-500-118	HWS20-M10-150	M10	150mm	20mm	\$275.84
317-500-119	HWS20-M10-200	M10	200mm	20mm	\$428.74
317-500-120	HWS20-M10-250	M10	250mm	20mm	\$506.50
317-500-121	HWS25-M12-150	M12	150mm	25mm	\$305.15
317-500-122	HWS25-M12-200	M12	200mm	25mm	\$395.01
317-500-123	HWS25-M12-250	M12	250mm	25mm	\$468.35
317-500-124	HWS25-M12-300	M12	300mm	25mm	\$558.85
317-500-125	HWS32-M16-200	M16	200mm	32mm	\$563.84
317-500-126	HWS32-M16-250	M16	250mm	32mm	\$727.17
317-500-127	HWS32-M16-300	M16	300mm	32mm	\$857.98
317-500-128	HWS32-M16-350	M16	350mm	32mm	\$1106.18
317-500-129	HWS32-M16-400	M16	400mm	32mm	\$1,264.51

Part Number	Item Number	Thread	Length	L2 Length	Shank	Price
317-501-101	HWA08-M04-A25-75	M4	75mm	50mm	8mm	\$150.02
317-501-102	HWA08-M04-A50-100	M4	100mm	50mm	8mm	\$144.64
317-501-103	HWA10-M05-A25-75	M5	75mm	50mm	10mm	\$168.96
317-501-104	HWA10-M05-A50-100	M5	100mm	50mm	10mm	\$163.33
317-501-105	HWA10-M05-A75-125	M5	125mm	50mm	10mm	\$209.66
317-501-106	HWA10-M05-A100-150	M5	150mm	50mm	10mm	\$206.34
317-501-107	HWA10-M06-A25-75	M6	75mm	50mm	10mm	\$168.70
317-501-108	HWA10-M06-A50-100	M6	100mm	50mm	10mm	\$163.33
317-501-109	HWA10-M06-A75-125	M6	125mm	50mm	10mm	\$209.66
317-501-110	HWA10-M06-A100-150	M6	150mm	50mm	10mm	\$206.34
317-501-111	HWA12-M06-A25-75	M6	75mm	50mm	12mm	\$172.03
317-501-112	HWA12-M06-A50-100	M6	100mm	50mm	12mm	\$165.63
317-501-113	HWA12-M06-A75-125	M6	125mm	50mm	12mm	\$242.69
317-501-114	HWA12-M06-A100-150	M6	150mm	50mm	12mm	\$239.36
317-501-115	HWA16-M08-A45-100	M8	100mm	55mm	16mm	\$201.98
317-501-116	HWA16-M08-A95-150	M8	150mm	55mm	16mm	\$236.74
317-501-117	HWA16-M08-A145-200	M8	200mm	55mm	16mm	\$312.77
317-501-118	HWA20-M10-A90-150	M10	150mm	60mm	20mm	\$295.84
317-501-119	HWA20-M10-A140-200	M10	200mm	60mm	20mm	\$387.52
317-501-120	HWA20-M10-A190-250	M10	250mm	60mm	20mm	\$457.28
317-501-121	HWA25-M12-A90-150	M12	150mm	60mm	25mm	\$321.15
317-501-122	HWA25-M12-A140-200	M12	200mm	60mm	25mm	\$419.33
317-501-123	HWA25-M12-A190-250	M12	250mm	60mm	25mm	\$500.99
317-501-124	HWA25-M12-A240-300	M12	300mm	60mm	25mm	\$618.50
317-501-125	HWA32-M16-A135-200	M16	200mm	65mm	32mm	\$611.84
317-501-126	HWA32-M16-A185-250	M16	250mm	65mm	32mm	\$787.84
317-501-127	HWA32-M16-A235-300	M16	300mm	65mm	32mm	\$921.98
317-501-128	HWA32-M16-A285-350	M16	350mm	65mm	32mm	\$1174.02
317-501-129	HWA32-M16-A335-400	M16	400mm	65mm	32mm	\$2,212.90



Part Number	Taper	Thread	Gauge length	Price
317-BT40M0860	BT40	M8	60mm	\$149.00
317-BT40M0890	BT40	M8	90mm	\$149.00
317-CAT40M0890	CAT40	M8	90mm	\$149.00
317-CAT40M1090	CAT40	M10	90mm	\$149.00
317-CAT40M10135	CAT40	M10	135mm	\$179.00
317-CAT40M1290	CAT40	M12	90mm	\$149.00
317-CAT40M12135	CAT40	M12	135mm	\$179.00
240-DIN40M1275	DIN40	M12	75mm	\$153.00
240-CAT40M1675	DIN40	M16	75mm	\$153.00





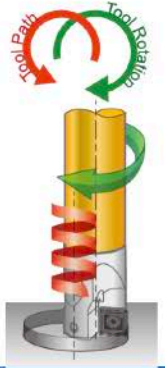
NC Helix Drill

Special Trial Promo

- 99321 & 99323 holders are half price
- inserts and extension bar remain normal price

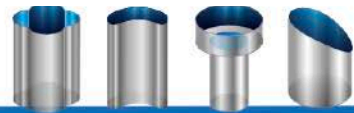
Rough Milling, Drilling & Slotting

- New tool design helps eliminate machining processes
- Ideal for automated production
- Serrated cutting edge produces small manageable chips and reduces vibration
- Lower spindle power consumption



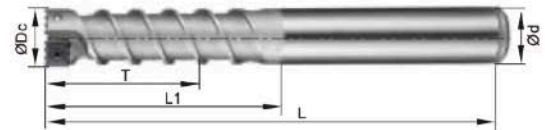
1st Jul. ~ 15th Dec.
2020

K P M N S



► 99321 Cylindrical shank Half Price

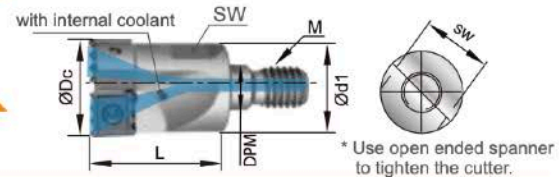
- External coolant



Code	Parts No.	Type	Capable of drill dia. mm		ØDc	T	L1	L	Ød	Insert type
			Dmin.	Dmax.						
401001	00-99321-010-1320	BC10-HD11-1320	13	20	11	30	40	80	10	N9MX04T002
402001	00-99321-012-1525	BC12-HD13-1525	15	25	13	36	50	100	12	N9MX05T103
403001	00-99321-016-2030	BC16-HD17-2030	20	30	17	50	60	110	16	N9MX070204
404001	00-99321-020-2540	BC20-HD22-2540	25	40	22	60	70	125	20	N9MX100306
405001	00-99321-025-3050	BC25-HD27-3050	30	50	27	75	85	165	25	N9MX12T308

► 99323 Screw Fit Cutter Half Price

- Internal Coolant



Code	Part No.	Type	Capable of drill dia. mm		ØDc	L	M	DPM	Ød1	SW	Insert type
			Dmin.	Dmax.							
421001	00-99323-010-1320	M05-HD11-1320	13	20	11	20	M5	5.5	10	8	N9MX04T002
422001	00-99323-012-1525	M06-HD13-1525	15	25	13	25	M6	6.5	12	10	N9MX05T103
423001	00-99323-016-2030	M08-HD17-2030	20	30	17	25	M8	8.5	16	14	N9MX070204
424001	00-99323-020-2540	M10-HD22-2540	25	40	22	30	M10	10.5	20	18	N9MX100306
425001	00-99323-025-3050	M12-HD27-3050	30	50	27	35	M12	12.5	25	23	N9MX12T308

Reduce Your Tool Inventory

Only 4 tools for making Ø13~Ø50mm hole from solid.



**50% OFF HELIX DRILL
HOLDERS UNTIL THE END
OFF THE YEAR**



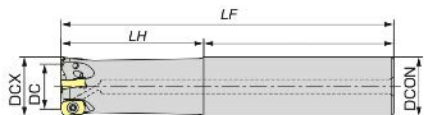
**High Accuracy
Hex-Key Drill
Chucks
Made in Taiwan**

Highly accurate drill chucks that also have an excellent clamping pressure. You can even run end mills in it!

Part Number	Description	Clamping Range	Price
331-CT40223202A	CAT40XGHK13S-90L	0,3-13MM	\$299
331-CT40224202A	CAT40XGHK16S-95L	1,5-16MM	\$329
331-CT50224202A	CAT50XGHK16S-95L	1,5-16MM	\$349
331-HK22526	HSK63AXGHK13S-105	0,3-13MM	\$369
331-HK22528	HSK63AXGHK16S-110	1,5-16MM	\$389
331-BT22518	BT40XGHK13S-98L	0,3-13MM	\$299

HITACHI TD4N HIGH FEED CUTTER KITS

- Economical 4 corner inserts
- Reduced un-cut portion on work pieces
- Large minor cutting diameter
- Excellent chip discharge characteristics



TD4N

High Feed Radius Mill TD4N type



Part Number	Diameter	Length (LF)	Reach (LH)	No. Flutes	Kit Price
ITD4N2010S-2	5/8"	4.000	1.250	2	\$435 C/W 20 INSERTS
ITD4N2012S-3	3/4"	5.000	2.000	3	\$453 C/W 20 INSERTS
ITD4N2016S-4	1"	5.500	2.500	4	\$470 C/W 20 INSERTS
ITD4N2020S-5	1-1/4"	6.000	2.750	5	\$674 C/W 30 INSERTS
ITD4N2024S-6	1-1/2"	6.000	1.750	6	\$692 C/W 30 INSERTS
ITD4N2010L-2	5/8"	6.000	2.000	2	\$443 C/W 20 INSERTS
ITD4N2012L-3	3/4"	6.250	3.250	3	\$464 C/W 20 INSERTS
ITD4N2016L-4	1"	7.000	4.000	4	\$475 C/W 20 INSERTS
ITD4N2020L-5	1-1/4"	8.000	5.000	5	\$678 C/W 30 INSERTS
ITD4N2024L-6	1-1/2"	9.000	1.750	6	\$698 C/W 30 INSERTS

Insert Grades	JP4120	JM4160	JS4045	GX4120
ENMU0603ER-C	◆	◆	◆	◆
ENMU0603ER-B	◆	◆	◆	◆



Walter Grooving Made Easy... GX System

Walter Grooving Made Easy... SX System

3mm GX Double Ended Systems

G1011.16R-3T21GX24
1 inch shank
EDP: 5622791



G1011.12R-3T21GX24
0.75 inch shank
EDP: 5622796

G1042.26N-3T40GX24
1.020 inch blade
EDP: 5913350



G1042.32N-3T50GX24
1.260 inch blade
EDP: 5887898

Steel
GX24-2E300N02-CE4 WSM33S
EDP: 6092250

Stainless
GX24-2E300N02-CF5 WSM33S
EDP: 6090583



3mm SX Single Ended Systems

G2012.16R-3T33SX-P
1 inch shank ($T_{max} = 1.29''$)
EDP: 6424517



G2012.12R-3T33SX-P
0.75 inch shank ($T_{max} = 1.29''$)
EDP: 6837938

G2042.26N-3T38SX
1.024 inch blade
EDP: 6424577



G2042.32N-3T50SX
1.260 inch blade
EDP: 6408745

Steel
SX-3E300N02-CE4 WSM33S
EDP: 6393136

Stainless
SX-3E300N02-CF5 WSM33S
EDP: 6646221



4mm GX Double Ended Systems

G1011.16R-4T21GX24
1 inch shank
EDP: 5622801



G1011.12R-4T21GX24
0.75 inch shank
EDP: 5622806

G1042.26N-4T40GX24
1.020 inch blade
EDP: 5917925



G1042.32N-4T50GX24
1.260 inch blade
EDP: 5887899

Steel
GX24-3E400N03-CE4 WSM33S
EDP: 6092252

Stainless
GX24-3E400N02-CF5 WSM33S
EDP: 6091912



4mm SX Single Ended System

G2012.16R-4T33SX-P 1
inch shank ($T_{max} = 1.29''$)
EDP: 6424519



G2012.12R-4T29SX-P 0.75
inch shank ($T_{max} = 1.14''$)
EDP: 6424513

G2042.26N-4T40SX 1.024
inch blade
EDP: 6424578



G2042.32N-4T50SX 1
inch blade
EDP: 6424620

Steel
SX-4E400N02-CE4 WSM33S
EDP: 6427095

Stainless
SX-4E400N02-CF5 WSM33S
EDP: 6646223



SBN12-26K-E
1.024" (0.75" shank)
EDP: 5028842



SBN16-32-K-E
1.26" (1" shank)
EDP: 5028826

Wrench - 3mm and 4mm tools



FS1494
EDP: 5163278

Precision Cooling

Direct
Efficient
Straight to the point

Purchase any 20 Walter Tiger-tec® Silver inserts and Receive the applicable Walter Precision Cooling OD Turning tool Free of Charge *

THE TOOL

Coolant supplied directly through the clamp across the rake face and also up the flank face.

Tool variants: Square shank, Walter Capto™

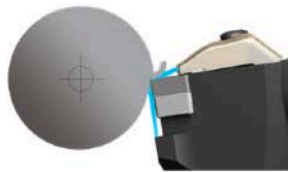
THE APPLICATION

Stainless steels (ISO M), high-temperature alloys (ISO S) and steel (ISO P). Can be used starting from 150 psi up to a maximum coolant pressure of 2200 psi.

THE TECHNOLOGY

Precision cooling:

The precision cooling toolholder and indexable insert geometry are designed to work together for optimal cooling.



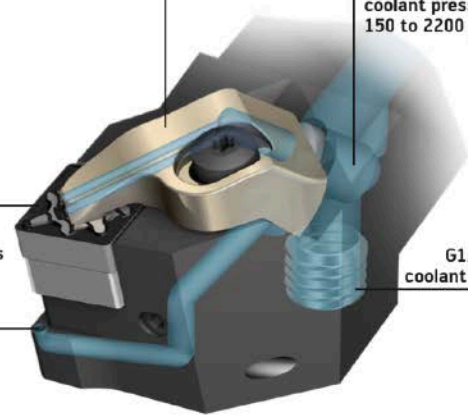
Longer tool life and greater chip breaking range due to rake face cooling

Higher cutting speeds and longer tool life thanks to flank face cooling

Rigid clamping guarantees high process reliability

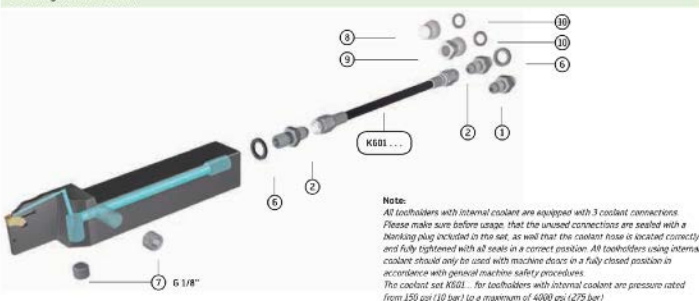
Universal use - coolant pressure from 150 to 2200 psi

G1/8" internal coolant connection



COOLANT HOOK UP PIPING

Grooving holder G2012-P



Walter P coolant hose set

Components	Designation	Length			
		150 mm	250 mm	300 mm	
		K601.01.150-SET	K601.01.250-SET	K601.01.300-SET	
					Included each Set
①	M10 Connection element	FS2252	1 x	—	—
②	1/8" Double connection element	FS2253	2 x	1 x	—
③	1/8" Elbow connection	FS2254	—	1 x	1 x
④	M10 Elbow connection	FS2255	—	1 x	2 x
⑤	1/4" - 1/8" Reduction	FS2256	—	1 x	1 x
⑥	Copper seal	FS2257	2 x	3 x	4 x
⑦	1/8" Blanking plug	FS2258	1 x	1 x	1 x
⑧	Brass blanking plug	FS2259	1 x	1 x	1 x
⑨	1/8" Brass nozzle	FS2260	1 x	1 x	1 x
⑩	Sealing ring	FS2261	2 x	2 x	2 x



A TYROLIT Company



32A Abrasive

Premium Aluminum Oxide grinding wheels which feature forgiving cool cutting performance on heat sensitive hardened steels and hard to grind alloys.

Part Number	Size	Specification	Sale Price
159-A322138	7 x 1/2 x 1-1/4	32A100-I8-VEQ	\$27.84
159-A322139	7 x 1/2 x 1-1/4	32A100-J8-VEQ	\$27.84
159-A320700	7 x 1/2 x 1-1/4	32A46-H8-VEQ	\$27.84
159-A320699	7 x 1/2 x 1-1/4	32A46-I8-VEQ	\$27.84
159-A323753	7 x 1/2 x 1-1/4	32A46-J8-VEQ	\$27.84
159-A320701	7 x 1/2 x 1-1/4	32A46-K8-VEQ	\$27.84
159-A320704	7 x 1/2 x 1-1/4	32A60-I8-VEQ	\$27.84
159-A320705	7 x 1/2 x 1-1/4	32A60-J8-VEQ	\$27.84
159-A320706	7 x 1/2 x 1-1/4	32A60-K8-VEQ	\$27.84
159-A320707	7 x 1/2 x 1-1/4	32A80-I8-VEQ	\$27.84
159-A320708	7 x 1/2 x 1-1/4	32A80-K8-VEQ	\$27.84
159-A322130	7 x 3/4 x 1-1/4	32A46-H8-VEQ	\$33.32
159-A320709	7 x 3/4 x 1-1/4	32A46-I8-VEQ	\$33.32
159-A322131	7 x 3/4 x 1-1/4	32A46-K8-VEQ	\$33.32
159-A322132	7 x 3/4 x 1-1/4	32A60-I8-VEQ	\$33.32
159-A322159	7 x 3/4 x 1-1/4	32A60-K8-VEQ	\$33.32
159-A322160	7 x 3/4 x 1-1/4	32A80-I8-VEQ	\$33.32
159-A322161	7 x 3/4 x 1-1/4	32A80-K8-VEQ	\$33.32
159-A320711	8 x 1/2 x 1-1/4	32A46-I8-VEQ	\$33.32
159-A325053	8 x 1/2 x 1-1/4	32A46-J5-VEQ	\$33.32
159-A322153	8 x 1/2 x 1-1/4	32A46-J8-VEQ	\$33.32
159-A322154	8 x 1/2 x 1-1/4	32A46-K8-VEQ	\$33.32
159-A322157	8 x 1/2 x 1-1/4	32A60-H8-VEQ	\$33.32
159-A320712	8 x 1/2 x 1-1/4	32A60-I8-VEQ	\$33.32
159-A322200	8 x 1/2 x 1-1/4	32A60-J8-VEQ	\$33.32
159-A322160	8 x 1/2 x 1-1/4	32A80-I8-VEQ	\$33.32
159-A322161	8 x 1/2 x 1-1/4	32A80-K8-VEQ	\$33.32
159-A322163	8 x 3/4 x 1-1/4	32A46-H8-VEQ	\$39.71
159-A322164	8 x 3/4 x 1-1/4	32A46-I8-VEQ	\$39.71
159-A322165	8 x 3/4 x 1-1/4	32A46-J8-VEQ	\$39.71
159-A322167	8 x 3/4 x 1-1/4	32A60-J8-VEQ	\$39.71
159-A322168	8 x 3/4 x 1-1/4	32A60-K8-VEQ	\$39.71
159-A325054	10 x 1 x 3	32A46-H8-VEQ	\$72.13
159-A322172	10 x 1 x 3	32A46-I8-VEQ	\$72.13
159-A322173	10 x 1 x 3	32A60-I8-VEQ	\$72.13
159-A322182	12 x 1 x 5	32A46-I8-VEQ	\$98.30
159-A325056	12 x 1 x 5	32A60-I8-VEQ	\$98.30
159-A329682	12 x 1 x 5	32A60-K8-VEQ	\$98.30
159-A325057	14 x 1-1/2 x 5	32A46-H8-VEQ	\$182.13
159-A322183	14 x 1-1/2 x 5	32A46-I8-VEQ	\$182.13

BP Ceramic Abrasive

Features a premium blend of ceramic and aluminum oxide abrasives for premium grinding performance on materials with high chromium content as well as hardened steels of 45Rc+ such as D2.

Part Number	Size	SPECIFICATION	Sale Price
159-K329743	7 x 1/2 x 1-1/4	8BP46-G800-VOS	\$42.52
159-K323163	7 x 1/2 x 1-1/4	8BP46-H800-VOS	\$42.52
159-A322483	7 x 1/2 x 1-1/4	8BP46-I8-V8	\$42.52
159-A323162	7 x 1/2 x 1-1/4	8BP46-J8-V8	\$42.52
159-K329745	7 x 1/2 x 1-1/4	8BP60-G800-VOS	\$42.52
159-A329746	7 x 1/2 x 1-1/4	8BP60-H8-V8	\$42.52
159-K323158	7 x 1/2 x 1-1/4	8BP60-H800-VOS	\$42.52
159-A322516	7 x 1/2 x 1-1/4	8BP60-I8-V8	\$42.52
159-A322240	7 x 1/2 x 1-1/4	8BP60-J8-V8	\$42.52
159-A322959	7 x 1/2 x 1-1/4	8BP80-I8-V8	\$42.52
159-A323159	7 x 1/2 x 1-1/4	8BP80-J8-V8	\$42.52
159-A321715	7 x 1/2 x 1-1/4	8BP80-K8-V8	\$42.52
159-K329747	8 x 1/2 x 1-1/4	8BP46-G800-VOS	\$50.97
159-K323164	8 x 1/2 x 1-1/4	8BP46-H800-VOS	\$50.97
159-A322642	8 x 1/2 x 1-1/4	8BP46-J8-V8	\$50.97
159-K329748	8 x 1/2 x 1-1/4	8BP60-G800-VOS	\$50.97
159-K323165	8 x 1/2 x 1-1/4	8BP60-H800-VOS	\$50.97
159-A323170	8 x 1/2 x 1-1/4	8BP60-J8-V8	\$50.97
159-A323172	8 x 1/2 x 1-1/4	8BP80-J8-V8	\$50.97
159-A323173	8 x 1/2 x 1-1/4	8BP80-K8-V8	\$50.97
159-A323145	8 x 3/4 x 1-1/4	8BP46-I8-V8	\$60.74
159-A322519	8 x 3/4 x 1-1/4	8BP46-J8-V8	\$60.74
159-A323147	8 x 3/4 x 1-1/4	8BP60-I8-V8	\$60.74
159-A323148	8 x 3/4 x 1-1/4	8BP60-J8-V8	\$60.74
159-A323149	8 x 3/4 x 1-1/4	8BP60-K8-V8	\$60.74
159-A323333	10 x 1 x 3	8BP46-I8-V8	\$110.28
159-A325428	10 x 1 x 3	8BP46-J8-V8	\$110.28
159-A324611	10 x 1 x 3	8BP60-J8-V8	\$110.28
159-K323150	12 x 1 x 5	8BP46-H800-VOS	\$150.34
159-A329755	12 x 1 x 5	8BP46-I8-V8	\$150.34
159-K329756	12 x 1 x 5	8BP60-G800-VOS	\$150.34
159-K329758	12 x 1 x 5	8BP60-I800-VOS	\$150.34
159-A323151	12 x 1 x 5	8BP60-J8-V8	\$150.34
159-A329760	14 x 1-1/2 x 5	8BP46-H8-V8	\$278.56
159-K323153	14 x 1-1/2 x 5	8BP46-H800-VOS	\$278.56
159-A328682	14 x 1-1/2 x 5	8BP46-I8-V8	\$278.56
159-A329761	14 x 1-1/2 x 5	8BP60-H8-V8	\$278.56
159-A323154	14 x 1-1/2 x 5	8BP60-J8-V8	\$278.56

Popular sizes highlighted in red

MAQ Mass dampening boring bars feature a polymer based technology to instantly tune out vibration when boring at extended lengths. When the vibrations hit the polymer that supports the mass dampener inside the boring bar it changes its properties to tune out the vibration. The leading competitors feature an oil based system which over time breaks down or leaks making the bar less



**NEW SIZES
ADDED
CHECK THE
FULL RANGE
ONLINE**



BARS

EDP	Description	Diameter	Length	DCON	Price
330-100050	STMDI 1/2-5.7"	1/2"	5.7"	SL12	\$965.25
330-100062	STMDI 5/8-6.7"	5/8"	6.7"	SL16	\$965.25
330-100062L	STMDI 5/8-8.0"	5/8"	8.0"	SL16	\$1595.00
330-100075	STMDI 3/4-7.9"	3/4"	7.9"	SL20	\$1,113.75
330-100075L	STMDI 3/4-10.3"	3/4"	10.3"	SL20	\$1805.25
330-100100	STMDI 1.00-10"	1"	10"	SL25	\$1,262.25
330-100100L	STMDI 1.00-13.2"	1"	13.2"	SL25	\$1740.00
330-100125	STMDI 1-1/4-12.6"	1-1/4"	12.6"	SL32	\$1,485.00
330-100125L	STMDI 1-1/4-16.4"	1-1/4"	16.4"	SL32	\$1957.50
330-100150	STMDI 1-1/2-16"	1-1/2"	16"	SL40	\$1,856.25
330-100150L	STMDI 1-1/2-20.8"	1-1/2"	20.8"	SL40	\$2682.50
330-100200	STMDI 2.00-20.4-SL40	2"	20.4"	SL40	\$2,450.25
330-100200L	STMDI 2.00-26.0-SL40	2"	26.0"	SL40	\$3407.50

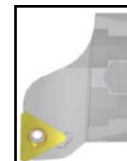
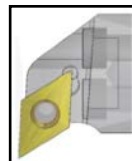
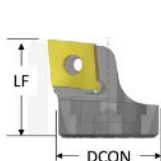
**New
Sizes
Added**

**PURCHASE A
BAR AND A
HEAD TO SUIT
AND CHOOSE A
2ND HEAD
FREE OF
CHARGE**

Please Note

Metric bars also available.

Never clamp directly on bar. Use split bushing or hydraulic chuck.



HEADS

DCON	DMIN	LF (CCMT Dimn. in brackets)	CCMT Heads	Price	DCMT Heads	Price	TCMT Heads	Price
SL12	0.629"	0.551" (0.565")	SCLCR-12-1/2 330-103112	\$118.80	SDUCR-12-1/2 330-103212	\$118.80	STFCR-12-1/2 330-103412	\$126.90
SL16	0.790"	0.629" (0.605")	SCLCR-16-5/8 330-103116	\$129.60	SDUCR-16-5/8 330-103216	\$122.85	STFCR-16-5/8 330-103416	\$132.30
SL20	0.984"	0.790" (0.752")	SCLCR-20-3/4 330-103120	\$137.70	SDUCR-20-3/4 330-103220	\$129.60	STFCR-20-3/4 330-103420	\$132.30
SL25	1.259"	0.870" (0.830")	SCLCR-25-1 330-103125	\$148.50	SDUCR-25-1 330-103225	\$133.65	STFCR-25-1 330-103425	\$137.70
SL32	1.575"	1.062" (0.950")	SCLCR-32-1-1/4 330-103132	\$163.45	SDUCR-32-1-1/4 330-103232	\$141.75	STFCR-32-1-1/4 330-103432	\$141.75
SL40	1.968" *	1.260" (0.990")	SCLCR-40-1-1/2 330-103140	\$179.55	SDUCR-40-1-1/2 330-103240	\$163.35	STFCR-40-1-1/2 330-103440	\$163.35

* When used on 1-1/2" bar.

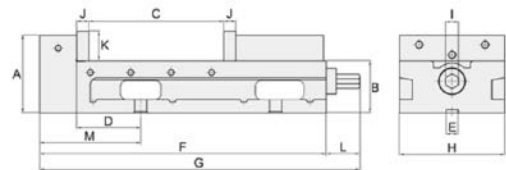
SUPER-OPEN M/C ANGLE VISE

MODELS

GH-6" SUPER-OPEN 8"
GH-8" SUPER-OPEN 12"



Model	Price Each	4 Piece Plus Price
GH-6 *	\$599	\$549
GH-8 **	\$1,199	\$1,149



- Super-Big Jaw Opening
- Designed with one-piece vise body, both sides grounded precisely
- ANGLE-LOCK SYSTEM ensure to pull the work-piece down
- Fixed Height, so several vises can be used together

SPECIFICATIONS (Material: FCD 55 Ductile Iron, Hardness: HRC 50°) Unit: mm/inch

Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Weight (kg)
GH-6" Super-Open 8"	115	77	205	95	18	425	475	156	19	18	44	50	150	30
GH-8" Super-Open 12"	148	88	300	100	18	560	610	202	19	18	63	50	175	60

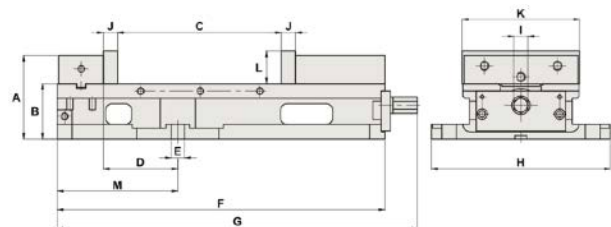
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	Weight (kg)
GH-6" Super-Open 8"	205	8 1/5	273	11 3/25	343	13 18/25	416	16 16/25						
GH-8" Super-Open 12"	300	12	393	15 18/25	462	18 12/25	555	22 1/5						

PRECISION ANGLE LOCK VISE (FRONT PULLING TYPE)

MODELS

TV-6" SUPER-OPEN 10"
TV-8" SUPER-OPEN 12"

Model	Price Each	4 Piece Plus Price
TV-6 *	\$649	\$599
TV-8 **	\$1,299	\$1,249



- Super-Big Jaw Opening
- Two Sides of Vise Body can be used as Datum Surfaces

- Super-Big Jaw Opening: 10" for TV-6" and 12" for TV-8"
- Advanced clamping style by front pulling, which enhances the clamping force and its accuracy
- Constructed with wider fixed jaw by 4 bolts locked on top and larger keyway to ensure accuracy and durability
- Two sides of Vise Body can be used as datum surfaces
- Fixed height(B), fixed positioning(D), and sided datum surfaces are the advantages of this vise

SPECIFICATIONS (Material: FCD 60 ductile Iron, Hardness: HRC 52°) Unit: mm

MODEL	A	B	C	D	E	F	G	H	I
TV-6" Super-Open 10"	113	77	250	100	16	455	484	240	19
TV-8" Super-Open 12"	139	87	305	138	16	570	620	300	19

MODEL	J	K	L	M	N	O	P	Q	Weight (kg)
TV-6" Super-Open 10"	19	160	44	162	250	329	389	468	36
TV-8" Super-Open 12"	24	215	61	230	305	419	469	583	62

* GH-6 AND TV-6 Models stock at Caliber
** GH-8 and TV-8 Not stock 6-8 week delivery
Spring promotions flyer valid until 30th June, 2020

MasterCut

Tool Corp.

CARBIDE BURS

Great prices on Mastercut carbide burs



SB Burs - Cylindrical With Endcut							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	9/16	1/8	1-1/2	SB-43DC*	6.17	-	-
1/4	5/8	1/4	2	SB-1DC*	12.48	-	-
1/4	5/8	1/4	6-3/4	SB-1L6DC	21.97	-	-
3/8	3/4	1/4	2-1/2	SB-3DC	17.21	-	-
3/8	3/4	1/4	6-3/4	SB-3L6DC	26.71	-	-
1/2	1	1/4	2-3/4	SB-5DC	27.44	-	-
1/2	1	1/4	7	SB-5L6DC	36.93	-	-



SD Burs - Ball Shape							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	1/8	1/8	1-1/2	SD-42DC*	6.17	-	-
1/4	7/32	1/4	2	SD-1DC*	12.71	SD-1FM*	16.85
1/4	7/32	1/4	6-3/4	SD-1L6DC	22.21	-	-
3/8	5/16	1/4	2-1/8	SD-3DC	15.56	SD-3FM	19.59
3/8	5/16	1/4	6-3/8	SD-3L6DC	25.05	-	-
1/2	7/16	1/4	2-1/4	SD-5DC	19.96	SD-5FM	25.65
1/2	7/16	1/4	6-1/2	SD-5L6DC	29.46	-	-



SF Burs - Radius Tree Shape							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	1/2	1/8	1-1/2	SF-42DC*	6.17	-	-
1/4	5/8	1/4	2	SF-1DC*	14.26	SF-1FM*	18.28
1/4	5/8	1/4	6-3/4	SF-1L6DC	23.75	-	-
3/8	3/4	1/4	2-1/2	SF-3DC	17.93	SF-3FM	23.15
3/8	3/4	1/4	6-3/4	SF-3L6DC	27.44	-	-
1/2	1	1/4	2-3/4	SF-5DC	25.40	SF-5FM	32.77
1/2	1	1/4	7	SF-5L6DC	34.90	-	-



SH Burs - Flame Shape							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	1/4	1/8	1-1/2	SH-41DC*	6.17	-	-
1/4	1/2	1/4	2	SH-1DC*	15.68	-	-
1/4	1/2	1/4	6-3/4	SH-1L6DC	25.17	-	-
5/16	3/4	1/4	2-1/2	SH-2DC	17.45	-	-
5/16	3/4	1/4	6-3/4	SH-2L6DC	26.94	-	-
1/2	1-1/4	1/4	3	SH-5DC	35.87	-	-
1/2	1-1/4	1/4	7-1/4	SH-5L6DC	45.36	-	-



SK Burs - 90° Included Cone							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	1/16	1/8	1-1/2	SK-42DC*	6.17	-	-
1/4	1/8	1/4	2	SK-1DC*	13.07	-	-
3/8	3/16	1/4	1-15/16	SK-3DC	15.91	-	-
1/2	1/4	1/4	2	SK-5DC	19.71	-	-



SM Burs - Pointed Cone Shape							
D1	L1	D2	L2	Deg.	Doublecut	CAN \$	Alumacut
1/8	11/32	1/8	1-1/2	12°	SM-41DC*	6.17	-
1/4	3/4	1/4	2	14°	SM-2DC	14.95	-
1/4	3/4	1/4	6-3/4	14°	SM-2L6DC	24.47	-
3/8	5/8	1/4	2-1/2	14°	SM-4DC	21.37	-
3/8	5/8	1/4	6-5/8	14°	SM-4L6DC	30.85	-
1/2	7/8	1/4	2-5/8	14°	SM-5DC	27.44	-
1/2	7/8	1/4	6-7/8	14°	SM-5L6DC	36.93	-

* Denotes Solid Carbide



SA Burs - Cylindrical No Endcut							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	9/16	1/8	1-1/2	SA-43DC*	6.17	-	-
1/4	5/8	1/4	2	SA-1DC*	11.52	SA-1FM*	14.85
1/4	5/8	1/4	6-3/4	SA-1L6DC	21.01	-	-
3/8	3/4	1/4	2-1/2	SA-3DC	15.68	SA-3FM	20.19
3/8	3/4	1/4	6-3/4	SA-3L6DC	25.17	-	-
1/2	1	1/4	2-3/4	SA-5DC	24.71	SA-5FM	31.71
1/2	1	1/4	7	SA-5L6DC	34.20	-	-



SC Burs - Radius Cylindrical							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	9/16	1/8	1-1/2	SC-42DC*	6.17	-	-
1/4	5/8	1/4	2	SC-1DC*	13.19	SC-1FM*	17.21
1/4	5/8	1/4	6-3/4	SC-1L6DC	22.68	-	-
3/8	3/4	1/4	2-1/2	SC-3DC	17.45	SC-3FM	22.43
3/8	3/4	1/4	6-3/4	SC-3L6DC	26.94	-	-
1/2	1	1/4	2-3/4	SC-5DC	27.44	SC-5FM	35.28
1/2	1	1/4	7	SC-5L6DC	36.93	-	-



SE Burs - Oval Shape							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	7/32	1/8	1-1/2	SE-41DC*	6.17	-	-
1/4	3/8	1/4	2	SE-1DC*	15.68	SE-1FM*	20.19
1/4	3/8	1/4	6-3/4	SE-1L6DC	25.17	-	-
3/8	5/8	1/4	2-3/8	SE-3DC	19.37	SE-3FM	24.81
3/8	5/8	1/4	6-5/8	SE-3L6DC	28.85	-	-
1/2	7/8	1/4	2-5/8	SE-5DC	27.44	SE-5FM	35.28
1/2	7/8	1/4	6-7/8	SE-5L6DC	36.93	-	-



SG Burs - Pointed Tree Shape							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	3/8	1/8	1-1/2	SG-43DC*	6.17	-	-
1/4	5/8	1/4	2	SG-1DC*	14.26	SG-1FM*	18.28
1/4	5/8	1/4	6-3/4	SG-1L6DC	23.75	-	-
3/8	3/4	1/4	2-1/2	SG-3DC	17.93	SG-3FM	23.15
3/8	3/4	1/4	6-3/4	SG-3L6DC	27.44	-	-
1/2	1	1/4	2-3/4	SG-5DC	25.40	SG-5FM	32.77
1/2	1	1/4	7	SG-5L6DC	34.90	-	-



SJ Burs - 60° Included Cone							
D1	L1	D2	L2	Doublecut	CAN \$	Alumacut	CAN \$
1/8	3/32	1/8	1-1/2	SJ-42DC*	6.17	-	-
1/4	3/16	1/4	2	SJ-1DC*	13.07	-	-
3/8	5/16	1/4	2-1/16	SJ-3DC	15.91	-	-
1/2	7/16	1/4	2-3/16	SJ-5DC	19.71	-	-



SL Burs - Radius Cone Shape							
D1	L1	D2	L2	Deg.	Doublecut	CAN \$	Alumacut
1/8	3/8	1/8	1-1/2	8°	SL-41DC*	6.17	-
1/4	5/8	1/4	2	14°	SL-1DC*	14.36	SL-1FM*
1/4	5/8	1/4	6-3/4	14°	SL-1L6DC	23.87	18.40
3/8	1-1/16	1/4	2-13/16	14°	SL-3DC	21.75	SL-3FM
3/8	1-1/16	1/4	7-1/16	14°	SL-3L6DC	31.25	27.90
1/2	1-1/8	1/4	2-7/8	14°	SL-4DC	27.67	-
1/2	1-1/8	1/4	7-1/8	14°	SL-4L6DC	37.17	35.62



SN Burs - Inverted Cone Shape							
D1	L1	D2	L2	Deg.	Doublecut	CAN \$	Alumacut
1/8	3/16	1/8	1-1/2	10°	SN-42DC*	6.17	-
1/4	5/16	1/4	2	10°	SN-1DC*	12.83	-
1/4	5/16	1/4	6-3/4	10°	SN-1L6DC	22.32	-
3/8	3/8	1/4	2-1/8	13°	SN-2DC	24.47	-
1/2	1/2	1/4	2-1/4	28°	SN-4DC	25.40	-
1/2	1/2	1/4	6-1/2	28°	SN-4L6DC	34.90	-