

All Tool Holders are accurately machined and heat treated.
Each Tool Holder includes a wrench. (Tool Bits are not included.)

TURNING TOOL HOLDERS

SERIES 428: STRAIGHT
SERIES 429: RIGHT HAND (Pictured)
SERIES 430: LEFT HAND

S = Straight
R = Right Hand
L = Left Hand



TURNING TOOL HOLDERS

SERIES 561:

S = Straight
R = Right Hand
L = Left Hand



For use with H.S.S. and Cobalt Tool Bits. (See Index)

For use with Carbide Tipped Tool Bits. (See Index)

Model No.	Size of Holder	Size of Tool Bit	Order No.	Price	Model No.	Size of Holder	Size of Tool Bit	Order No.	Price
ML-S*	5/16 X 5/16 X 3-3/8	1/8	2435101		T-0-S	3/8 x 15/16 x 6	1/4	5610016	
ML-R*	5/16 X 5/16 X 3-3/8	1/8	2440101		T-0-R	3/8 x 15/16 x 6	1/4	5610116	
ML-L*	5/16 X 5/16 X 3-3/8	1/8	2445101		T-0-L	3/8 x 15/16 x 6	1/4	5610216	
000-S	5/16 x 1/2 x 4	3/16	2435011		T-1-S	1/2 x 1-1/4 x 7	5/16	5610020	
000-R	5/16 x 1/2 x 4	3/16	2440011		T-1-R	1/2 x 1-1/4 x 7	5/16	5610120	
000-L	5/16 x 1/2 x 4	3/16	2445011		T-1-L	1/2 x 1-1/4 x 7	5/16	5610220	
00-S	5/16 x 3/4 x 4-1/2	3/16	2435012		T-2-S	5/8 x 1-1/2 x 8	3/8	5610024	
00-R	5/16 x 3/4 x 4-1/2	3/16	2440012		T-2-R	5/8 x 1-1/2 x 8	3/8	5610124	
00-L	5/16 x 3/4 x 4-1/2	3/16	2445012		T-2-L	5/8 x 1-1/2 x 8	3/8	5610224	
0-S	3/8 x 7/8 x 5	1/4	2435016		T-3-S	3/4 x 1-3/4 x 9	7/16	5610028	
0-R	3/8 x 7/8 x 5	1/4	2440016		T-3-R	3/4 x 1-3/4 x 9	7/16	5610128	
0-L	3/8 x 7/8 x 5	1/4	2445016		T-3-L	3/4 x 1-3/4 x 9	7/16	5610228	
1-S	1/2 x 1-1/8 x 6	5/16	2435020		T-4-S	7/8 x 1-7/8 x 10	1/2	5610032	
1-R	1/2 x 1-1/8 x 6	5/16	2440020		T-4-R	7/8 x 1-7/8 x 10	1/2	5610132	
1-L	1/2 x 1-1/8 x 6	5/16	2445020		T-4-L	7/8 x 1-7/8 x 10	1/2	5610232	
2-S	5/8 x 1-3/8 x 7	3/8	2435024		T-5-S	1 x 2-1/8 x 12	5/8	5610040	
2-R	5/8 x 1-3/8 x 7	3/8	2440024		T-5-R	1 x 2-1/8 x 12	5/8	5610140	
2-L	5/8 x 1-3/8 x 7	3/8	2445024		T-5-L	1 x 2-1/8 x 12	5/8	5610240	
3-S	3/4 x 1-5/8 x 8	7/16	2435028		T-6-S	1-1/4 x 2-1/4 x 13	3/4	5610048	
3-R	3/4 x 1-5/8 x 8	7/16	2440028		T-6-R	1-1/4 x 2-1/4 x 13	3/4	5610148	
3-L	3/4 x 1-5/8 x 8	7/16	2445028		T-6-L	1-1/4 x 2-1/4 x 13	3/4	5610248	
4-S	7/8 x 1-3/4 x 9	1/2	2435032						
4-R	7/8 x 1-3/4 x 9	1/2	2440032						
4-L	7/8 x 1-3/4 x 9	1/2	2445032						
5-S	1 x 2 x 11	5/8	2435040						
5-R	1 x 2 x 11	5/8	2440040						
5-L	1 x 2 x 11	5/8	2445040						
6-S	1-1/4 x 2-1/4 x 13	3/4	2435048						
6-R	1-1/4 x 2-1/4 x 13	3/4	2440048						
6-L	1-1/4 x 2-1/4 x 13	3/4	2445048						

*Ideal for mini-lathes.

LATHE TOOL KIT

SERIES 639:

- 20pc starter set is perfect for tooling mini lathes and other machinery.
- Set includes 5" straight, left hand and right hand tool holders with 1/4" x 2-1/2" HSS tool bits.
- 6-3/4" long double ended boring bar with hex key, holder and 1/4" x 2-1/2" HSS tool bit.
- 4" double wheel pivot head knurling tool fitted with HSS knurls.
- 4-1/2" straight shank cut off tool holder supplied with 3/32" x 1/2" HSS Cut off blade.
- 1/2" lathe dog bent, 1/2" lathe dog straight and T-slot cleaner.
- 7" Heavy duty knurled scriber, 3/32" square head center punch, 6"/150mm stainless steel rule and 6" divider.



Order No. 6390020 Price:

KNURLMASTER HAND KNURLER

SERIES 930:



- Excellent for "on the spot" repair work.
- The Standard Knurlmaster Kit includes a case and one set of Medium pitch, Straight (AA) pattern knurls.
- The Deluxe Knurlmaster Kit includes a case with one set each Coarse, Medium and Fine pitch, Straight (AA) and Diamond (BL and BR) pattern knurls. Knurl size: H - 1/2 x 1/4 x 3/16"

Description	Capacity	Order No.	Price
Knurlmaster Standard Kit	1/8 - 1"	9300129	
Knurlmaster Deluxe Kit	1/8 - 1"	9300130	

KNURLING TOOL HOLDERS

SERIES 323: MEDA - SUPERIOR IMPORT
SERIES 930: EAGLE ROCK - USA

SINGLE KNURL TOOL

- Shiny black finish.
- Holder size : 4" x 1/2" x 1/2"
- Knurl size : 3/4" x 3/8" x 1/4"
- Includes 1 Medium Cut H.S.S. Knurl.



Order No. 3230001 Price:

PIVOT HEAD KNURLING TOOL

- Self adjusting pivot head.
- Shiny black finish.
- Holder size : 4-1/2" x 1/2" x 1/2"
- Knurl size : 3/4" x 3/8" x 1/4"
- Includes 1 pair of Medium Cut H.S.S. Knurls.



Order No. 3230002 Price:

SELF ADJUSTING HEAD KNURLING TOOLS

Knurling tool with double knurl, self-centering head for manual lathes. Includes one set of Medium Pitch Diagonal (BL and BR) pattern knurls to produce a 30° diamond pattern on your part.



Size of Holder	Knurl Dimensions	MEDA		EAGLE ROCK	
		Order No.	Price	Order No.	Price
5/16 x 3/4 x 5	5/8 x 5/16 x 7/32	3230020		9300710	
3/8 x 7/8 x 5-1/2	5/8 x 5/16 x 7/32	3230100		9301012	
1/2 x 1-1/8 x 6-1/2	3/4 x 3/8 x 1/4	3230101		9301416	
5/8 x 1-3/8 x 7-1/2	3/4 x 3/8 x 1/4	3230102		9301618	
7/8 x 1-3/4 x 9	1 x 3/8 x 5/16	-		9302436	

REVOLVING HEAD KNURLING TOOLS

Revolving head knurling tool with double knurl and self-centering head for manual lathes. Includes one set each of **Coarse, Medium** and **Fine** pitch diagonal (BL and BR) pattern knurls to produce a 30° diamond pattern on your part.



Size of Holder	Knurl Dimensions	MEDA		EAGLE ROCK	
		Order No.	Price	Order No.	Price
5/16 x 3/4 x 5	5/8 x 5/16 x 7/32	3233000		9300150	
3/8 x 7/8 x 5-1/2	5/8 x 5/16 x 7/32	3233100		9300151	
1/2 x 1-1/8 x 6-1/2	3/4 x 3/8 x 1/4	1965000		9300152	
5/8 x 1-3/8 x 7-1/2	3/4 x 3/8 x 1/4	3233102		9300153	

KNURLING TOOLS

"CLAMP TYPE"

SERIES 323:



These knurling tools fit regular toolposts and square toolpost turrets of any lathes including CNC lathes and chuckers. Since knurling pressure is absorbed between the two knurls there is no pressure on the lathe, compound, centers or cross feed screw. Depth of knurling can be

pre-set for production work before start of operation. Knurling pattern is clear and sharp. Easily removable pins make it simple to change knurls. Furnished with one set of medium diamond pattern knurls but can be used with any other knurls. Knurl dimensions for both models: 3/4" Dia. x 3/8" Width x 1/4" Bore.

For Use On Work Diameters From:	Total Length of Tool	Shank Size	Order No.	Price
1/16 - 2-1/4	6	1/2 x 5/8	1970001	
2-1/4 - 4-1/2	8-1/4	5/8 x 3/4	1970002	

KNURLING TOOLS

"CLAMP TYPE"

SERIES 930:

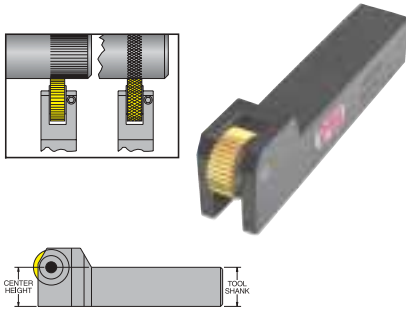


These knurling tools fit regular toolposts and square toolpost turrets of any lathes including CNC lathes and chuckers. Since knurling pressure is absorbed between the two knurls there is no pressure on the lathe, compound, centers or cross feed screw. Depth of knurling can be pre-set for production work before start of operation. Knurling pattern (straight of diamond) is clear and sharp. Easily removable pins make it simple to change knurls. Furnished with one set of medium diamond pattern knurls but can be used with any other knurls. Knurl dimensions for both models: 3/4" Dia. x 3/8" Width x 1/4" Bore.

Knurls and Knurl Pins are now quickly and easily replaced while still in your machine to minimize down time. Tool strength has been greatly increased to endure even your worst CNC application. Our exclusive CNC shanks are solid, one piece construction that are offset to allow for virtually no turret overhang of the knurls. Knurling pressures are absorbed by the tool not your bed, compound, centers or feed screw. This new generation of Scissor is certainly one of the best knurling tools you can buy.

Capacity	Shank	Knurl Size	Order No.	Price
0-2 1/8"	5/8 Center	3/4 x 3/8 x 1/4	9300112	
0-2 1/8"	3/4 Round	3/4 x 3/8 x 1/4	9300115	
0-2 1/8"	3/4 RH	3/4 x 3/8 x 1/4	9300116	
0-2 1/8"	3/4 LH	3/4 x 3/8 x 1/4	9300117	
0-2 1/8"	1" Round	3/4 x 3/8 x 1/4	9300118	
0-2 1/8"	1" RH	3/4 x 3/8 x 1/4	9300119	
0-2 1/8"	1" LH	3/4 x 3/8 x 1/4	9300120	
2 1/8-4"	3/4 Center	3/4 x 3/8 x 1/4	9300121	
2 1/8-4"	3/4 Round	3/4 x 3/8 x 1/4	9300122	
2 1/8-4"	3/4 RH	3/4 x 3/8 x 1/4	9300123	
2 1/8-4"	3/4 LH	3/4 x 3/8 x 1/4	9300124	
2 1/8-4"	1" Round	3/4 x 3/8 x 1/4	9300127	
2 1/8-4"	1" RH	3/4 x 3/8 x 1/4	9300128	
2 1/8-4"	1" LH	3/4 x 3/8 x 1/4	9900130	

SERIES 930:

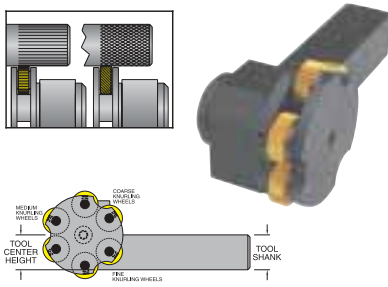


SWFKT - Single Wheel Fixed Knurling Tool for Manual or CNC Lathes

Precision square shank with preset center height. Single knurl wheel for straight and diamond pattern. Knurl wheel is mounted between the thrust washers to ensure smooth and even rotation of the knurl while knurling is performed. Best used for straight patterns or bump knurling a diamond pattern.

Center Height	Shank Size	Desc.	Order No	Price	Knurl Wheel Supplied	Knurl Pin Set	Order No.	Price
.375	.375 x .375	SWFKT-38-D	6121720		DDR/L-30C	KPS-18-50	6128805	
.500	.500 x .500	SWFKT-50-D	6121730					
.750	.750 x .750	SWFKT-75-M	6121740		MDR/L-25C	KPS-31-75	6128840	
1.00	1.00 x 1.00	SWFKT-100-O	6121750		ODR/L-25C	KPS-31-100	6128845	
1.25	1.25 x 1.25	SWFKT-125-O	6121760			KPS-31-125	6128850	

Tool supplied with one 25 or 30 TPI knurling wheels for straight pattern. A complete selection of knurl wheel pitches available.

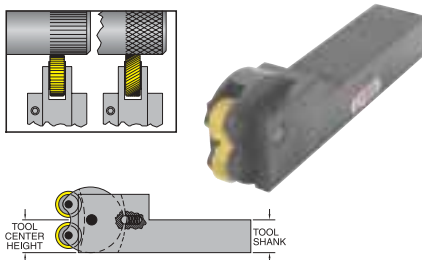


3SHKT - Three Swivel Head Knurling Tool

Designed to knurl multiple applications with one tool. Precision square shank with preset center height. Twin knurl wheels for straight and diamond pattern. Knurl wheels are mounted between the thrust washers to ensure a smooth and even rotation of the knurls while knurling is performed. Self-centering knurling head for precise alignment to the working part.

Center Height	Shank Size	Desc.	Order No	Price	Knurl Wheel Supplied	Knurl Pin Set	Order No.	Price
.500	.500 x .750	3SHKT-50-D	6121510		DDR/L-30C	KPS-18-50	6128805	
.625	.625 x .750	3SHKT-162-D	6121515		DDR/L-40C			
.750	.750 x 1.00	3SHKT-75-M	6121530		MDR/L-16C			
1.00	1.00 x 1.00	3SHKT-100-M	6121540		MDR/L-25C	KPS-31-100	6128845	
1.25	1.25 x 1.25	3SHKT-125-M	6121550		MDR/L-35C			

A complete selection of knurl wheel pitches available.

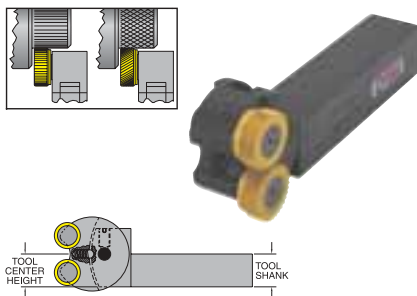


SCK - Self-Centering Knurling Tool for CNC Lathe

Specifically designed for CNC lathe. Precision square shank with preset center height. Twin knurl wheels for straight and diamond pattern. Knurl wheels are mounted between the thrust washers to ensure a smooth and even rotation of the knurls while knurling is performed. Self-centering knurling head for a precise alignment to the working part.

Center Height	Shank Size	Desc.	Order No	Price	Knurl Wheel Supplied	Knurl Pin Set	Order No.	Price
.500	.500 x .750	SCK-50-D	6122110		DDR/L-30C	KPS-18-50	6128805	
.750	.750 x 1.25	SCK-75-D	6122120					
1.00	1.00 x 1.20	SCK-100-D	6122130		MDR/L-25C	KPS-31-75	6128845	
1.25	1.25 x 1.25	SCK-125-M	6122140					

Tool supplied with one set of 25 or 30 TPI knurling wheels for diamond pattern. A complete selection of knurl wheel pitches available.

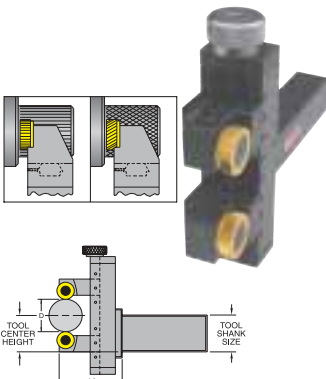


SSCK - Shoulder Self-Centering Knurling Tool for CNC Lathe

Specifically designed for CNC lathe. Designed to knurl against a square shoulder. Precision square shank with preset center height. Twin knurl wheels for straight and diamond pattern. Knurl wheels are mounted between the thrust washers to ensure a smooth and even rotation of the knurls while knurling is performed. Supplied with Cobalt TIC/N Coated SW series knurl wheels. Self-centering knurling head for a precise alignment to the working part.

Center Height	Shank Size	Desc.	Order No.	Price	Knurl Wheel Supplied	Knurl Pin Set	Order No.	Price
.375	.375 x .500	SSCK-38-2	6122210					
.500	.500 x .625	SSCK-50-2	6122220		SW2R/L-30C	SW2.0P-2S	6129055	
.750	.750 x .750	SSCK-75-3	6122230		SW3.5R/L-25C	SW3.5P-2S	6129070	
.750	.750 x .750	SSCK-75-4	6122240					
1.00	1.00 x 1.00	SSCK-100-4	6122250		SW4R/L-25C	SW4.0P-2S	6129085	
1.25	1.25 x 1.25	SSCK-125-4	6122260					

Tool supplied with one set of 25 or 30 TPI knurling wheels for diamond pattern. A complete selection of knurl wheel pitches available.



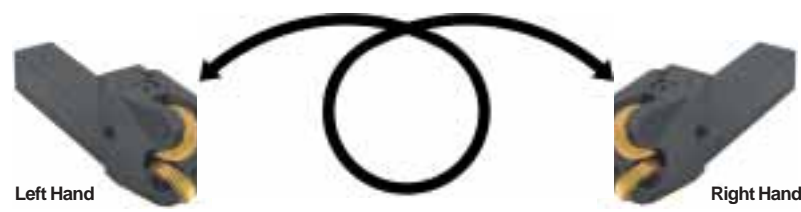
KTW109 - Diametral Shoulder Knurling Tool with a Self-Centering Adjustable Floating Straddle

This tool is designed when pressure and deflection are a problem. The knurling heads are able to "float" somewhat and center on the workpiece, compensating for any off-centering. Precise square shank with preset center height. A diametral adjustment screw regulates the depth of the knurl pattern and diameter size. Refer to the CNC-000-7 when tool clearance is a problem.

Center Height	Shank Size	D Max	L2	Desc.	Order No	Price	Knurl Wheel Style & size	Knurl Pin Set	Order No.	Price
0.75	.750 x 1.00	2.0	3.125	KTW109-75-2-4	6122810					
1.00	1.00 x 1.00	2.0	3.125	KTW109-100-2-4	6122820		SW4R/L-25C	SW4.0P-2S	6129085	
1.00	1.00 x 1.25	3.0	4.250	KTW109-100-3-4	6122830					
1.25	1.25 x 1.25	3.0	4.250	KTW109-125-3-4	6122840		SW4R/L-25C	SW4.0P-2S	6129085	

Tool supplied with one set of 25 TPI knurling wheels for diamond pattern. A complete selection of knurl wheel pitches available.

One shank fits all heads.



One head fits all shanks.

- Precision square shank with preset center height.
- Right or Left hand applications.
- Easy set-up.
- Center height adjustment.
- Interchangeable knurl heads.
- High productivity.
- Best knurl quality.
- Low production cost.
- Cutting - 10 to 20 times faster.

CNC Modular Knurling Tool Shank

- Specifically designed for the CNC Lathe.
- Cobalt knurl wheels, Tin coated.
- Carbide knurl pin.
- Easy set-up.
- Center height adjustment.
- Interchangeable knurl heads.
- High productivity.
- Best knurl quality.
- Long knurl wheel life.
- Low production cost.



CNC Modular Knurling Tool Heads

1 Small Diameter Diamond Cutting Knurling Head

- Cutting Style
- Small Diameter Range
- Diamond Pattern Only
- End Feed
- Feed Range: .004 to .012

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
SCNCKH-1-2	6120335		SW2S	.312-1.5	PSW-2.0S	6129005	
CNCKH-1-2	6121035		SW2S	.312-1.5	PSW-2.0S	6129005	



2 Heavy Duty Diamond Cutting Knurling Head

- Cutting Style
- Medium Diameter Range
- Diamond Pattern Only
- End Feed
- Feed Range: .004 to .016

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
CNCKH-2-R	6121040		RS	1.0-5.0	KPS-25-87-C	6128925	



3 Extra Heavy Duty Diamond Cutting Knurling Head

- Cutting Style
- Large Diameter Range
- Diamond Pattern Only
- End Feed
- Feed Range: .004 to .025

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
CNCKH-3-M	6121045		MS	2.0-up	KPS-31-100-C	6128945	



5 Single Wheel Forming Knurling Head

- Forming Style
- Unrestricted Dia. Range
- Straight Pattern
- Male Diamond Pattern
- Female Diamond Pattern
- In Feed and End Feed

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
CNCKH-5-0	6121050		0	N/A	KPS-31-125-C	6128950	



6 Shoulder Forming Knurling Head

- Forming Style
- 5/16" & Up Dia. Range
- Shoulder Knurling
- Straight Pattern
- Male Diamond Pattern
- In Feed and End Feed

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
SCNCKH-6-2	6120340		SW2S	.312 & up	SW2.0P-2S	6129055	
CNCKH-6-3	6121056		SW3.5	.312 & up	SW3.5P-2S	6129085	



7 Straddle Forming Knurling Head

- Forming Style
- Up to 1" Dia. Range
- Straddle Knurling
- Straight Pattern
- Male Diamond Pattern
- In Feed and End Feed

Desc.	Order No.	Price	Knurl Wheel	Dia. Range	Knurl Pin Desc.	Order No.	Price
SCNCKH-7-D	6120345		D	.50	KPS-18-50-C	6128905	
CNCKH-7-R	6121060		R	1.0	KPS-25-62-C	6128915	



SCNC Tool Heads fit SCNC Tool Shanks (#s 1, 6, 7 ONLY).

CNC Tool Heads fit CNC Tool Shanks (#s 1, 2, 3, 5, 6, & 7).

Shank Size	Width	Shank Length	Desc.	Order No.	Price
.375	.750	2.50	SCNC-37	6120310	
.500	.750	2.75	SCNC-50	6120320	
.625	.750	2.75	SCNC-162	6120325	
.750	1.00	3.25	CNC-75	6121010	
1.00	1.00	4.50	CNC-100	6121020	
1.25	1.00	5.00	CNC-125	6121030	

Modular Versatility

The CNC Modular Knurling Tool is a tooling system which combines exceptional versatility, rigidity, ease of handling, and simplicity. Knurl wheels, heads, and shanks can be combined to build your own knurling tool to fit any work application and machine.

Precise Adjustable Center Height

The dovetail mounting of the shank and head insures that the tool will be rigid and adjustable yet easy to use. By turning the adjustment screw clockwise or counterclockwise the center height of the head can be adjusted. Each eighth turn of the screw, which is marked on the screw, moves the head .004". After the desired center height has been reached, tightening the lock screw ensures that the head will remain in position while knurling a part.

Method of Knurling

Knurl forming action displaces the material creating a perfect knurl pattern while sacrificing speeds and feeds. The force applied through forming is increased in larger diameters making knurling difficult and slow. Knurling cutting action cuts a perfect knurl pattern 10 to 20 times faster than a forming knurl tool becoming applicable for CNC use. It is engineered to knurl any material, including thin wall tubing, with minimum stress to the spindle and compound lathe.

- Precision square shank with preset center height.
- Right or Left hand applications.
- One shank fits all heads.
- One head fits all shanks.
- Easy set-up.
- Center height adjustment.
- Interchangeable knurlheads.
- High productivity.
- Best knurl quality.
- Low production cost.
- Cutting - 10 to 20 times faster.

CNC-000-1-2



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- **Small cutting range:** 5/16" to 1-1/2".
- Minimum stress on the machine, and faster than knurl forming action.
- Twin straight SW series knurl wheels for diamond pattern. Allows tool to knurl close to a square shoulder.
- Supplied with SW2S-30C cobalt knurl wheels - Tin coated. Adds longer life and better performance to the knurl wheels.

Desc.	Order No.	Price	Shank Size	Tool Length
SCNC-37-1-2	6120010		.375	4.125
SCNC-50-1-2	6120020		.500	4.375
SCNC-162-1-2	6120025		.625	4.375
CNC-75-1-2	6120410		.750	5.500
CNC-100-1-2	6120420		1.00	6.750
CNC-125-1-2	6120430		1.25	7.250

CNC-000-2-R

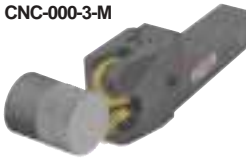


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- **Heavy duty cutting range:** 1" to 5".
- Minimum stress on the machine, and faster than knurl forming action.
- Twin straight R series knurl wheels for diamond pattern. Supplies more rigidity for larger diameters
- Knurl wheels are mounted between thrust washers. Ensures smooth and even rotation of the knurls.
- Supplied with RS-25-C cobalt knurl wheels - Tin coated. Adds longer life and better performance to the knurl wheels.

Desc.	Order No.	Price	Shank Size	Tool Length
CNC-75-2-R	6120510		.750	5.50
CNC-100-2-R	6120520		1.00	6.75
CNC-125-2-R	6120530		1.25	7.25

CNC-000-3-M



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- **Extra heavy duty cutting range:** 2" & up.
- Minimum stress on the machine, and faster than knurl forming action.
- Twin straight M series knurl wheels for diamond pattern. Supplies more rigidity for larger diameters
- Knurl wheels are mounted between thrust washers. Ensures smooth and even rotation of the knurls.
- Supplied with MS-25-C cobalt knurl wheels - Tin coated. Adds longer life and better performance to the knurl wheels.

Desc.	Order No.	Price	Shank Size	Tool Length
CNC-75-3-M	6120610		.750	5.625
CNC-100-3-M	6120620		1.00	6.875
CNC-125-3-M	6120630		1.25	7.375

CNC-000-5-O



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- **Straight bump.**
- Great quality of knurl pattern.
- Single O series knurl wheel for straight or diamond pattern. Narrow knurl applications, up to .394" wide
- Knurl wheel is mounted between thrust washers. Ensures smooth and even rotation of the knurl.
- Supplied with OS25-C cobalt knurl wheel - Tin coated. Adds longer life and better performance to the knurl wheel.

Desc.	Order No.	Price	Shank Size	Tool Length
CNC-75-5-O	6120710		.750	5.50
CNC-100-5-O	6120720		1.00	6.75
CNC-125-5-O	6120730		1.25	7.25

CNC-000-6



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- **Shoulder diameter range:** 5/16" & up.
- Better quality of knurl pattern.
- Twin SW series knurl wheels for straight or diamond pattern. Allows tool to knurl against a square shoulder.
- A thrust washer is mounted between the knurls and tool head. Ensures smooth and even rotation of the knurls.
- Supplied with SW3.5R/L-25C cobalt knurl wheels - Tin coated. Adds longer life and better performance to the knurl wheels.

Desc.	Order No.	Price	Shank Size	Tool Length
SCNC-37-6-2	6120110		.375	4.125
SCNC-50-6-2	6120120		.500	4.375
SCNC-162-6-2	6120125		.625	4.375
CNC-75-6-3	6120811		.750	5.500
CNC-100-6-3	6120821		1.00	6.750
CNC-125-6-3	6120831		1.25	7.250

CNC-000-7



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- **Small diameter range:** up to 1".
- Better quality of knurl pattern.
- Compact design. Allows more clearance for the tool head.
- Twin R series knurl wheels for straight or diamond pattern. Supplies more rigidity for compact design.
- Supplied with RDR/L-30-C cobalt knurl wheels - Tin coated. Adds longer life and better performance to the knurl wheel.
- Self-centering knurling head. Precise alignment to the working part.

Desc.	Order No.	Price	Shank Size	Tool Length
SCNC-37-7-D	6120210		.375	4.25
SCNC-50-7-D	6120220		.500	4.50
SCNC-162-7-D	6120225		.625	4.50
CNC-75-7-R	6120910		.750	5.75
CNC-100-7-R	6120920		1.00	7.00
CNC-125-7-R	6120930		1.25	7.50

HIGH SPEED STEEL KNURLS

SERIES 459:

Knurls are individually cut to obtain sharp, perfectly formed teeth - then heat treated and tempered.

Available with: 14 (coarse), 21 (medium), and 33 (fine) teeth per inch.

NOTE: RH Knurling is produced with LH Knurls
LH Knurling is produced with RH Knurls.
Male Diamond Knurling is produced by RH and LH Knurls in pairs.



Dimensions Dia. x Thick. x Hole Dia.	Teeth Per Inch	Straight	RH Diagonal	LH Diagonal	Price
5/8 x 5/16 x 7/32"	14	4590140	4590141	4590142	
	21	4590210	4590211	4590212	
	33	4590330	4590331	4590332	
3/4 x 3/8 x 1/4"	14	2550140	2550141	2550142	
	21	2550210	2550211	2550212	
	33	2550330	2550331	2550332	



MACHINE TOOL ACCESSORIES

KNURL WHEELS

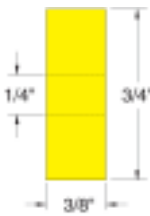
SERIES 916:



Circular Pitch Knurls are made to extremely high standards from the finest materials available. Knurls are individually hob cut and lapped to a smooth hard finish to give longer life and impart a smooth clean surface to the knurled part.

Knurls available in High Speed, Cobalt, TIC/N - Coated, beveled, and diametral pitch.

"A" Series High Speed



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
10	90°	0023502	9923634	0023766
12	90°	0023504	0023636	0023768
14	90°	0023506	0023638	0023770
16	90°	0023508	0023640	0023772
20	90°	0023510	0023642	0023774
25	90°	0023512	0023644	0023776
30	90°	0023514	0023646	0023778
35	90°	0023516	0023648	0023780
40	90°	0023518	0023650	0023782
50	70°	0023520	0023652	0023784
80	70°	0023522	0023654	0023786
Price				

"D" Series Cobalt



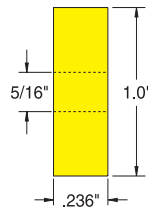
TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
16	90°	0025002	0025056	0025110
20	90°	0025004	0025058	0025112
25	90°	9925006	0025060	0025114
30	90°	9925008	0025062	0025116
35	90°	9925010	0025064	0025118
40	90°	9925012	0025066	0025120
50	70°	0025014	0025068	0025122
80	70°	0025016	0025070	0025124
Price				

"C" Series High Speed



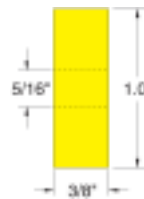
TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
16	90°	0024502	0024610	0024718
20	90°	0024504	0024612	0024720
25	90°	0024506	0024614	0024722
30	90°	0024508	0024616	0024724
35	90°	0024510	0024618	0024726
40	90°	0024512	0024620	0024728
50	70°	0024514	0024622	0024730
80	70°	0024516	0024624	0024732
Price				

"M" Series Cobalt



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
12	90°	0025306	0025372	0025438
14	90°	0025308	0025374	0025440
16	90°	9925310	0025376	0025442
20	90°	0025312	0025378	0025444
25	90°	0025314	0025380	0025446
30	90°	9925316	0025382	0025448
Price				

"O" Series High Speed



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Male Diamond	Female Diamond
12	90°	0025606	-	-
14	90°	9925608	-	-
16	90°	0025610	-	-
20	90°	0025612	9926008	0026074
25	90°	0025614	9026010	0026076
30	90°	0025616	9926012	0026078
Price				

Quality Knurling Tools



The Choice Is Yours!!!

(Continued)



(Continued)

Circular Pitch Knurls are made to extremely high standards from the finest materials available. Knurls are individually hob cut and lapped to a smooth hard finish to give longer life and impart a smooth clean surface to the knurled part.

Knurls available in High Speed, Cobalt, TIC/N - Coated, beveled, and diametral pitch.

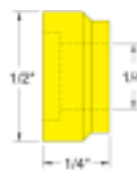
- "SW" knurling wheels are technically designed to knurl against a square shoulder.
- With super precise workmanship, the wheels are made of heat treated High Cobalt Steel to withstand severe knurling operation.
- Knurl wheels are Titanium Nitrate coated to reduce the coefficient of friction when knurling, increasing the quality and the force of knurling as well as the life of the knurl wheels.
- **All SW Series knurl wheels are available only in cobalt and tin coated.**

"R" Series
Cobalt



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
10	90°	0026502	0026564	0026626
12	90°	0026504	0026566	0026628
14	90°	0026506	0026568	0026630
16	90°	0026508	0026570	0026632
20	90°	0026510	0026572	0026634
25	90°	0026512	0026574	0026636
30	90°	0026514	0026576	0026638
35	90°	0026516	0026578	0026640
40	90°	0026518	9926580	0026642
50	70°	0026520	0026582	0026644
Price				

"SW2" Series
Cobalt



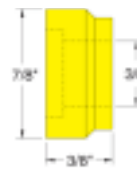
TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
16	90°	0027402	0027452	0027502
20	90°	0027404	0027454	0027504
25	90°	0027406	0027456	0027506
30	90°	0027408	0027458	0027508
35	90°	0027410	0027460	9927510
40	90°	0027412	0027462	9927512
50	70°	0027414	0027464	9927514
Price				

"S" Series
High Speed



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
10	90°	0026802	0026924	0027048
12	90°	0026804	0026926	0027050
14	90°	0026806	0026928	0027052
16	90°	0026808	0026930	0027054
20	90°	0026810	9926932	0027056
25	90°	0026812	9926934	0027058
30	90°	0026814	9926936	0027060
35	90°	0026816	0026938	0027062
40	90°	0026818	0026940	0027064
50	70°	0026820	0026942	0027066
Price				

"SW3.5" Series
Cobalt



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
14	90°	9927702	0027756	0027810
16	90°	9927704	0027758	0027812
20	90°	9927706	0027760	0027814
25	90°	9927708	0027762	0027816
30	90°	9927710	0027764	0027818
35	90°	9927712	0027766	0027820
40	90°	9927714	0027768	0027822
50	70°	9927716	0027770	0027824
Price				

"SW4" Series
Cobalt



TPI	Included Tooth Angle	Order No.		
		Pattern		
		Straight	Diagonal Right	Diagonal Left
14	90°	0028002	0028056	0028110
16	90°	0028004	0028058	0028112
20	90°	0028006	0028060	0028114
25	90°	0028008	0028062	0028116
30	90°	0028010	0028064	0028118
35	90°	0028012	0028066	0028120
40	90°	0028014	0028068	0028122
50	70°	0028016	0028070	0028124
Price				



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