

# OmniTurn

Richlin Machinery

## Tooling - Accessories - Parts

### GT-75 CNC Lathes



**\*\$42,795**

**COMPLETE**

(When paid in full at time of order)

C-axis option add \$3,300



**Fast..Precise..Affordable**

**We at Richlin Machinery represent many manufacturers:**

- |                  |                    |              |
|------------------|--------------------|--------------|
| • ACCUTRAK       | • ENGBAR           | • NSK        |
| • ROBOTUNITS     | • FEEDING CONCEPTS | • SCT        |
| • CENTAUR        | • ISCAR            | • SMC        |
| • CIRCLE MACHINE | • KITAGAWA         | • SOMMA      |
| • DUNHAM         | • MAXBAR           | • NORTHFIELD |



**UNIVERSAL ROBOT**



**Richlin Machinery**

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*Prices are subject to change without notice.*

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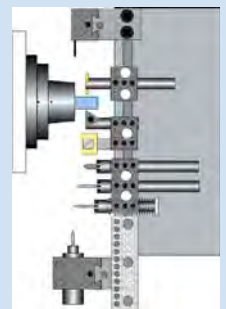
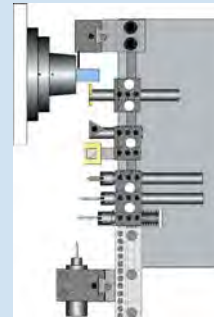
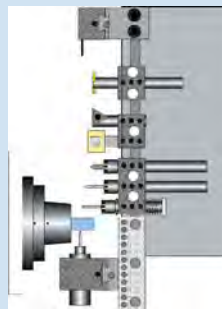
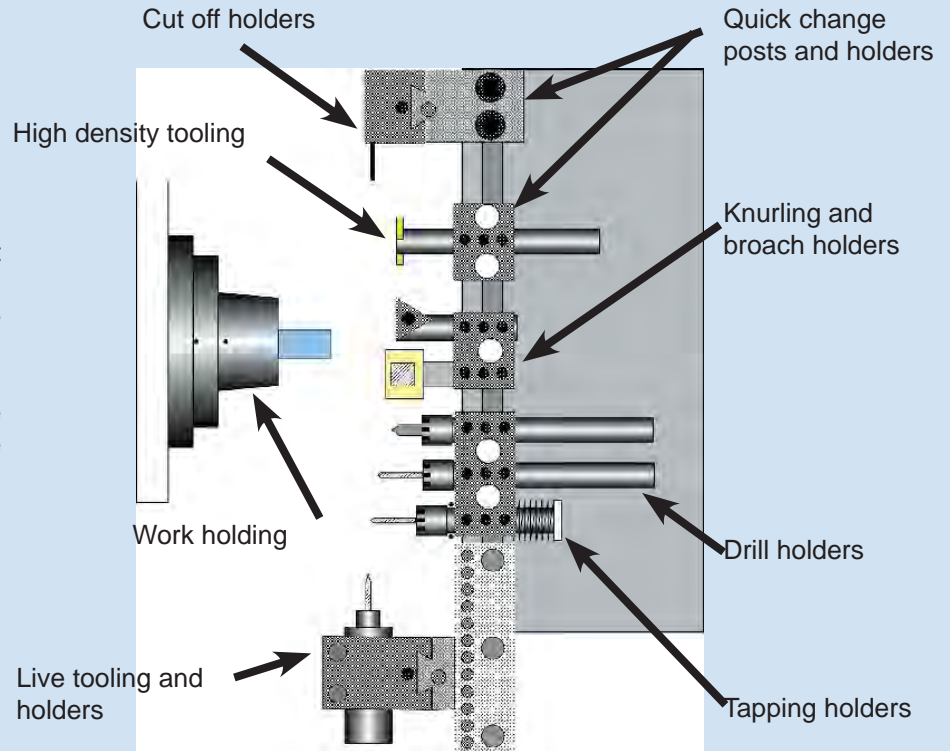
# OmniTurn

Your single source for gang tool machines, tooling, automation, and assistance

## Tooling layout assistance

- ◆ Part and tooling interference
- ◆ Tooling overhang and rigidity
- ◆ Tooling density
- ◆ Tooling sequence and travels

OmniTurn can help you get the most out of your machine and job. We can help you get a layout designed in advance so you are not having to spend time rearranging and reordering tooling until it all fits. If you send us a print we can return a tooling layout like the one to the right.



Tooling Layout Assistance is available - in most cases for FREE!

## Work Holding Secondary Operations - Not Always Easy

Secondary operations are usually simple, it is the work holding that can get in the way. While there is not much in this catalog in the way of work holding options, OmniTurn does offer a great deal of expertise to its users in the way of advise and direction. When you have issues with concentricity, dead length tolerances, internal gripping, off center turning, or over sizes parts, give us a call. We have probably seen and solved the issue before.





## STARTER TOOLING KITS

### Attachment

#### **Basic Kit - Available in 3/8" or 1/2"**

##### **Tool Post-W**

TF-625

Cutoff Blade holder-11/16"

MultiBar Starter Kit [1-bar 10-inserts]

Iscar Cutoff w/inserts

Set of 7 Bushings 5/8"od

(2) Omni-101L/115L

Omni-200/205

Omni-300/305

Omni-800/805PFB

**\$2,200.00**

#### **Advanced Kit: includes the Basic Kit**

(2) ER-16 Holders

ER-16 Wrench

ER-16 Collet Set

Omnitap

Offset Post Adaptor

and Rail

**\$3,200.00**

These starter tooling kits are great for shops that do not have experience with gang tooled lathes. The kits represent a good cross section of the different types of tooling and tool holders. They are good for a shop that does not have a specific job to be run on the OmniTurn and would like to try some of everything.

#### **Tool Plate Center Heights:**

The standard attachment and GT-75 are available with either 3/8" or 1/2" center heights. Be sure to select the correct kit number.

#### **Attachment vs. GT-75 Kits:**

Our entire range of tool holders are engineered for optimum performance.

#### **Substitutions are Available:**

For changes to the basic kit, please note the difference on your PO, and we will be happy to help create a tooling kit that best suits your needs!

### GT-75

#### **Basic Kit - Available in 3/8" or 1/2"**

##### **Tool Post-W**

TF-625

Cutoff Blade holder-11/16"

MultiBar Starter Kit [1-bar 10-inserts]

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(2) Omni-101L/115L

Omni-200/205

Omni-300/305

Omni-800/805PFB

**\$2,200.00**

#### **Advanced Kit: includes the Basic Kit**

(2) ER-16 Holders

ER-16 Wrench

ERC-16 Collet Set

Omnitap

Offset Post Adaptor

and Rail

**\$3,200.00**

### Basic Tooling Kit

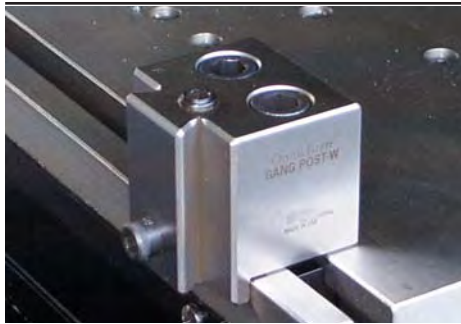


### Advanced Kit additions





Includes T-nut and bolt



### Tool Post - W

Tool Post - W

\$250.00



### Tool Post Extended - W

Tool Post Extended - W

\$275.00

Includes T-nut and bolt

## Tool Post Riser

Raise your Toolpost-W to work with live tooling for milling and slotting. The riser is hardened and ground so it gives the best support, square and true.

Tool Post Riser - 1-1/4" \$115.00

Tool Post Riser - 1-1/2" \$125.00

Tool postRiser - 2-1/4" \$145.00  
3/8-16" Bolts not included



## HEAVY DUTY W TOOL POSTS

- The W type tool post has a wedge action clamp that pulls the tool holder against the face of the post. This wedge type clamp is much stronger than other tool post's that use a setscrew. The W type holder is strongly recommended when there will be heavier cutting. Turning and cutoff tools can take deeper cuts with better finishes and longer life. This post also works much better for interrupted cuts. The "hammering" of the tool does not loosen the wedge clamp.

- The wedge clamp holders also have excellent repetition in height. The clamping of the tool does not move the tool up or down.

- The locking action is done from above. The W type posts can be placed on the tooling plate directly against one another. No space is used on the tooling plate when having to get at the locking set screw.



THE LOCKING WEDGE IS DRIVEN BY A SCREW FROM ABOVE



HOLDERS PLACED NEXT TO ONE ANOTHER WITHOUT INTERFERENCE

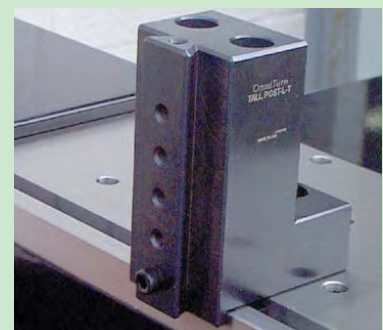
## TALL TOOL POST

- The face of the post has 5 tapped holes for the height adjustment screw. This makes the post useful for more tooling applications.

- The post is held to the tooling plate with a long T nut, with two bolts. There is a third hole, for an additional bolt if the application requires extra stiffness.



When tightening tool holders to the tall tool post that tapers, set screws on the holder are used. If more rigidity is needed, use a tool post riser.



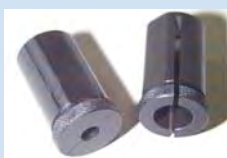
Tall Tool Post

\$295.00

## OMNI 5/8" BUSHINGS

Bushings are available in stock fractional sizes. All bushings are hardened and ground.

Bushing 1/8 x 5/8"	\$32.90
Bushing 3/16 x 5/8"	\$32.90
Bushing 1/4 x 5/8"	\$32.90
Bushing 5/16 x 5/8"	\$32.90
Bushing 3/8 x 5/8"	\$32.90
Bushing 7/16 x 5/8"	\$32.90
Bushing 1/2 x 5/8"	\$32.90



## OMNI TURN "T" NUTS

Long T nuts are available for OmniTurn tooling. These nuts help with quick change overs.

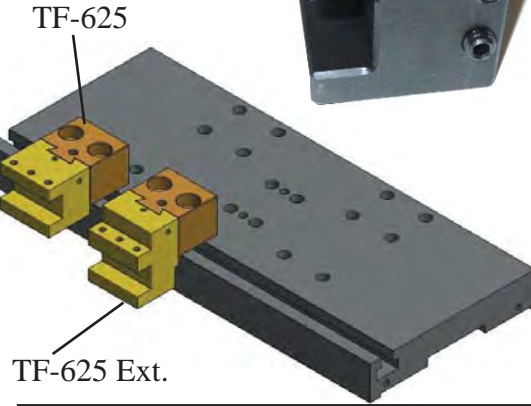
TNUT-1	Single hole T-nut	\$10.00
TNUT-P	.900 between centers	\$12.00
TNUT-B	1.1 between centers	\$12.00
TNUT-A	2.2 between centers	\$15.00



## TF-625 Ext.

Allows for adjustment so a larger tool can be used and still be on center.

TF-625 Ext.....\$159.00



## Tool Holders for OmniTurn Posts



Now holds 3/4" tools

Omni TF625	\$149.00	Omni L type Right	\$149.00	Omni L type Left	\$149.00
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Omni 2 Gang	\$149.00	Omni 3 Gang	\$159.00	Omni Universal	\$119.00
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### Tool Post Extensions



Extends tool 1.730" W-Extension Long	W-Extension Short Extends tool 1.10"
\$235.00	\$190.00



This holder bolts to the tooling and holds tools with shanks up to 1/2" parallel to the spindle.

Omni-500L	\$165.00
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Omni Soft Blank	\$95.00
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## OFFSET POST ASSEMBLY

This post assembly is great for getting the most out of your slide's tooling plate and travel. Use it to hold any tool out of the working area. Only the cutting edge is extended into the working range.

**This holder is great for:**

Cutting off - Turning - Live tools

- The rail can be mounted on the front or back of the slide.
- The rail's dovetail is across the entire face. The offset post W adaptor can be set anywhere on the face of the rail.
- The offset post W adaptor has all of the features of the regular W type post, with the W type clamping system. The adaptor is available in Standard and Long length.



OFFSET ASSEMBLY  
BACK MOUNTED

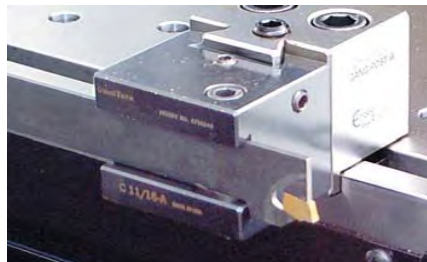
OFFSET ASSEMBLY  
REAR MOUNTED



Offset Post W  
adaptor \$195.00



Offset Post Assembly  
Rail \$195.00



Omni 11/16 "Back" Cutoff Holder	N/A
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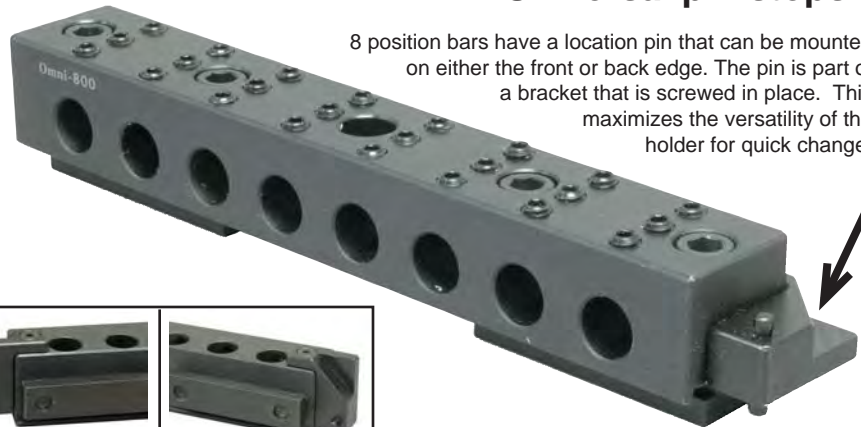
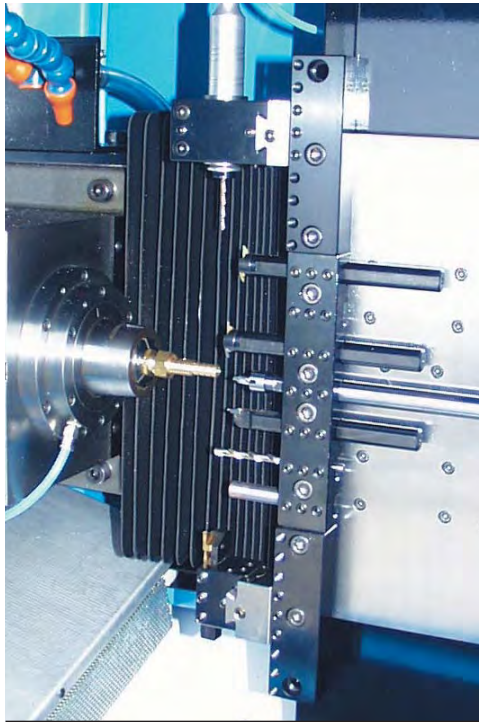


Omni Cutoff - Front Mount	\$149.00
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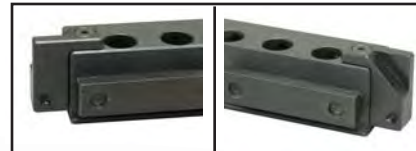


# QUICK CHANGE OVER HOLDERS

## QUICK CHANGE BARS FOR GT-75 & ATTACHMENTS: Universal pin stops



8 position bars have a location pin that can be mounted on either the front or back edge. The pin is part of a bracket that is screwed in place. This maximizes the versatility of the holder for quick change.



Includes T-nut and bolt

### 8 STATION - PIN FRONT OR BACK

Omni-800PFB - 5/8" bore, 3/8" center height \$325.00

Omni-805PFB - 5/8" bore, 1/2" center height \$325.00

Uses T nut style: TNUT-A



### 1 station with lip

Omni-101L 5/8" bore, 3/8" center height

Omni-115L 5/8" bore, 1/2" center height

Omni-1175L 3/4" bore, 1/2" center height

**\$139.00 each** Includes T-nut and bolt



### 2 station with lip

Omni-200 5/8" bore, 3/8" center height

Omni-205 5/8" bore, 1/2" center height

Omni-2075 3/4" bore, 1/2" center height

**\$149.00 each** Includes T-nut and bolt



### 3 station with lip

Omni-300 5/8" bore 3/8" center height

Omni-305 5/8" bore 1/2" center height

Omni-3075 3/4" bore 1/2" center height

**\$159.00 each** Includes T-nut and bolt



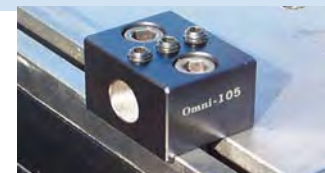
### 1 station No lip

Omni-101 5/8" bore, 3/8" center height

Omni-115 5/8" bore, 1/2" center height

Omni-1175 3/4" bore, 1/2" center height

**139.00 each** Includes T-nut and bolt



### 1 STATION - HEAVY DUTY

Omni-100 - 5/8" bore, 3/8" center height **\$159.00**

Omni-105 - 5/8" bore, 1/2" center height **\$159.00**

Omni-1075 - 3/4" bore, 1/2" center height **\$159.00**

Omni 5-100 - 1.000" bore, 1/2" center height **\$165.00**

Includes T-nut and bolt

### 8 station - moveable pin



Omni-800 - 3/8" center height

Omni-805 - 1/2" center height

5/8" bores

**\$325.00 each**

Includes T-nut and bolt



### 7 STATION - No PIN

Omni-700 - 5/8" bore, 3/8" center height

Omni-705 - 5/8" bore, 1/2" center height

Omni-7075 - 3/4" bore, 1/2" center height

**\$315.00 each**

Includes T-nut and bolt



## LIVE IN-LINE HOLDER

Here is a new holder for live tooling. It has a 30mm bore. The bushings above can be used to step it down.

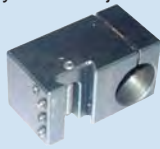
This holder is great for milling flats or larger slots. With the Tool Post-W you you can adjust the height of the cutter easily. Dove tail style.

Live In-Line - 30mm holder

\$235.00

Live In-Line - 36mm holder

\$260.00



## Live Tool Vertical Holders



Live Vertical LV-30

\$225.00

Live Vertical LV-40

\$235.00

## Live Tool Horizontal Holders



Live Horizontal LH-30

\$225.00

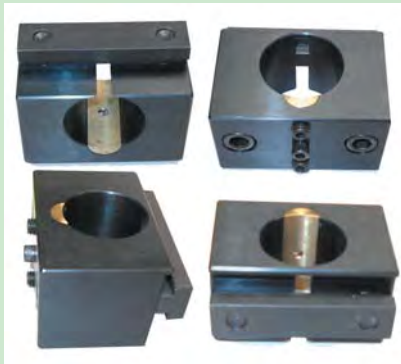
Live Horizontal LH-36

\$235.00

Live Horizontal LH-40

\$245.00

## LIVE TOOL HOLDER W/ BRASS CLAMP



This holder is great for when you need to hold a 1" OD live tool on center with the spindle

Live In-Line - 1" bore

\$195.00

Live In-Line - 30mm bore

\$225.00

Live In-Line - 36mm bore

\$225.00

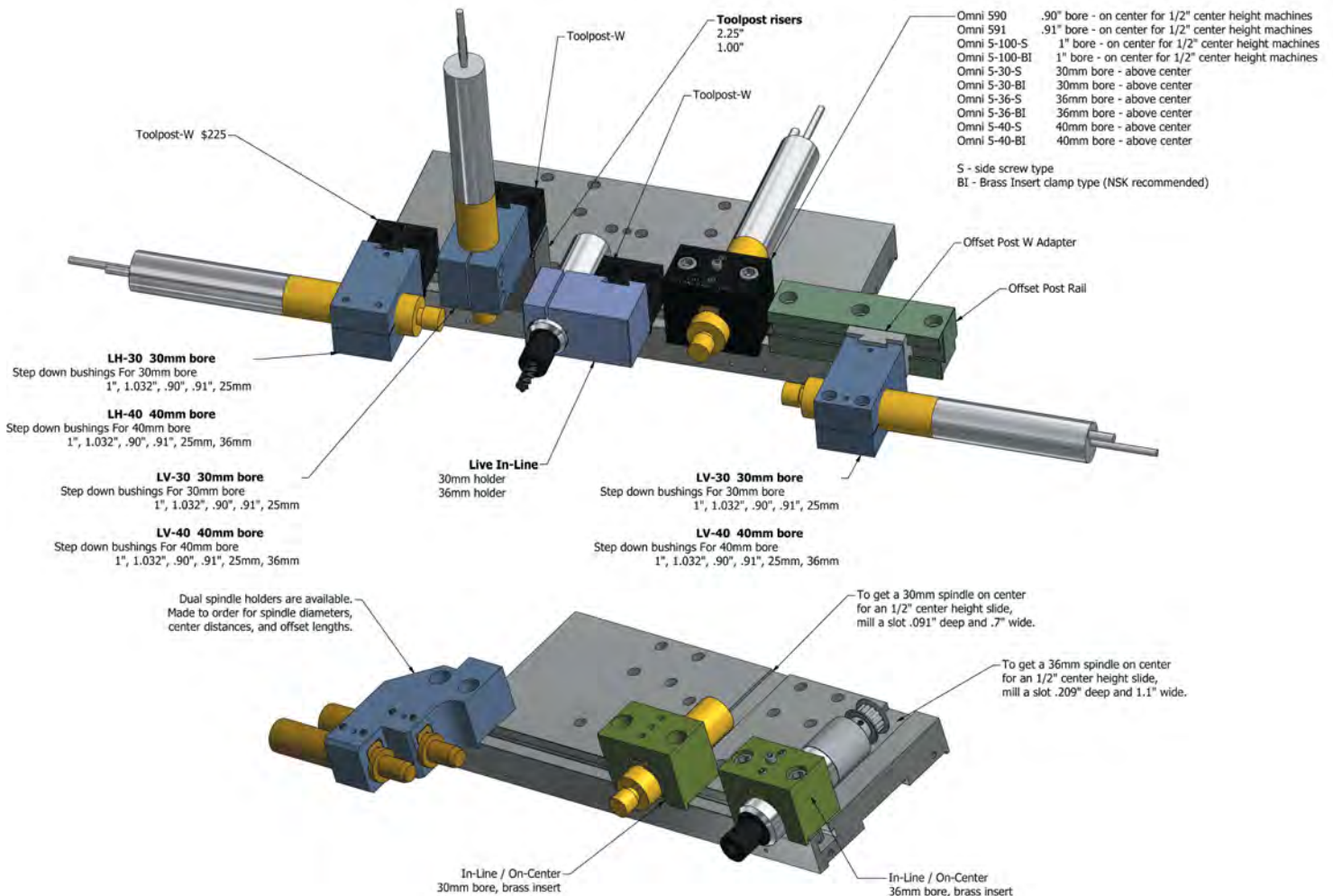
Includes T-nut and bolt



### 30MM LIVE TOOL HOLDER

ATTACHES RIGHT TO TOOLING PLATE.  
HOLDS LIVE TOOLS HORIZONTALLY.  
\$395.00

Reducer bushing page 9



**OmniTurn** live tool holders are available for ALL NSK spindles. Vertical, Horizontal, and In-Line are in stock at all times. Special holders are made to order.



## REDUCER BUSHINGS



	PRICE
1"/30mm	\$140.00
1.032"/30mm	\$140.00
.9"/30mm	\$140.00
.91"/30mm	\$140.00
3/4" / 30mm	\$140.00
36mm/40mm	\$140.00
25mm /30mm	\$140.00

## LARGE OMNI-LIVE TOOL HOLDERS



5-30 - 30mm bore	\$170.00
5-36 - 36mm bore	\$180.00
5-40 - 40mm bore	\$195.00

The 5-30 and 5-40 hold the spindles above center  
Uses T nut style: (2) TNUT-1

## ANGLE OMNI-LIVE TOOL HOLDERS



You can drill angled holes with the OmniTurn. Holders are made to order. The OmniTurn slide is responsive enough to enable peck drilling at any angle. We have applications in the in use where .062" drill are being drilled at 30 degrees .75" deep.

## NSK OMNI-LIVE TOOL HOLDERS



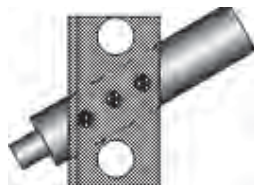
Omni 590 -  
1/2" center height \$179.00  
for NSK Astro System .900

Omni 591 -  
1/2" center height \$179.00  
for NSK Astro Series .910

Uses T nut style: (2) TNUT-1

## SPECIAL ORDER

We can design any holder per your specifications.



## OMNITURN BAR PULLERS



- Light weight & self activating. No moving parts.
- 5/8" shank fits directly into OmniTurn tool holders
- Gripper threads onto shank, change in seconds
- Only 1/4" bar engagement is needed.
- Small head diameter minimizes interference
- Using a bar puller reduces bar whip as compared to a push type bar feed



Bar puller shank- 5/8"		\$89.00
.187"	PBG0187	\$62.00
.250"	PBG0250	\$62.00
.312"	PBG0312	\$62.00
.375"	PBG0375	\$62.00
.437"	PBG0437	\$62.00
.500"	PBG0500	\$62.00
.562"	PBG0562	\$62.00
.625"	PBG0625	\$62.00
.687"	PBG0687	\$62.00
.750"	PBG0750	\$62.00

Metric sizes available call for sizes.

## AccuTrak Two-Die STRADDLE HOLDER FOR KNURLING AND THREADING

Capacity: .19 to 1"  
Head width: 2.45"  
Head thickness: .875"  
Die size: 3/4" diameter, 3/8" wide, 1/4" hole



AccuTrak Knurl Holder \$437.00



## AccuTrak's HOLDER IS EASY TO SET UP AND ADJUST FOR SIZE

The holder uses two knurling dies held in an adjustable yoke. It is easy to center the holder so there is even pressure on both dies. The adjustment for size is done with a screw.

## Straight Tooth Knurls -



\$18.80 ea HSS		\$23.55 ea Cobalt	
TPI / TEETH	TPI / TEETH	TPI / TEETH	TPI / TEETH
8, 19 (90°)	20, 23 (90°)	12, 28 (90°)	14, 34 (90°)
16, 38 (90°)	20, 47 (90°)	21, 50 (90°)	25, 59 (90°)
30, 71 (90°)	33, 77 (90°)	35, 82 (90°)	40, 94 (90°)
35, 82 (70°)	50, 117 (70°)	60, 141 (70°)	80, 189 (70°)

## 30° DIAGONAL Knurls - RH or LH



\$21.80 ea HSS		\$23.55 ea Cobalt	
8, 16 (90°)	10, 20 (90°)	12, 25 (90°)	14, 34 (90°)
16, 33 (90°)	20, 41 (90°)	21, 50 (90°)	25, 51 (90°)
30, 61 (90°)	33, 77 (90°)	35, 71 (90°)	40, 81 (90°)
50, 102 (70°)	80, 163 (70°)		



## 30° Diamond Knurls - Male or Female

12, 25 (90°)	16, 33 (90°)	20, 41 (90°)	25, 51 (90°)
30, 61 (90°)	40, 81 (90°)	50, 102 (70°)	80, 163 (70°)

\$27.00 ea HSS \$32.95 ea Cobalt



# OMNITURN ER 16 & 11 COLLET SYSTEM

**OTC-ER11 Holder w/ mini Nut \$95.00**  
 Wrench for OTC-ER11mini nut \$22.00  
 Extra nut for OTC-ER11 holder \$28.00

**OTC-ER16 Holder w mini Nut \$115.00**  
 Wrench for OTC-ER16 holder \$24.50  
 Extra nut for OTC-ER16 holder \$33.50

## INDIVIDUAL COLLETS

SIZE	FRACTIONAL	ER-11	PRICE
.020 - .039		OTC11-001	\$30.00
.039 - .059		OTC11-002	\$25.00
.059 - .079	1/16	OTC11-003	\$25.00
.079 - .098	3/32	OTC11-004	\$25.00
.098 - .118		OTC11-005	\$25.00
.118 - .138	1/8	OTC11-006	\$25.00
.138 - .157	5/32	OTC11-007	\$25.00
.157 - .177		OTC11-008	\$25.00
.177 - .197	3/16	OTC11-009	\$25.00
.197 - .217		OTC11-010	\$25.00
.217 - .236	7/32	OTC11-011	\$25.00
.236 - .256	1/4	OTC11-012	\$25.00
.256 - .276		OTC11-013	\$25.00

SIZE	FRACTIONAL	ER-16	PRICE
.024 - .039		OTC16-001	\$30.00
.063 - .078		OTC16-002	\$25.00
.103 - .118		OTC16-003	\$25.00
.118 - .157	1/8, 5/32	OTC16-004	\$25.00
.157 - .196	3/16	OTC16-005	\$25.00
.197 - .236	7/32	OTC16-006	\$25.00
.236 - .275	1/4	OTC16-007	\$25.00
.276 - .315	9/32, 5/16	OTC16-008	\$25.00
.315 - .354	11/32	OTC16-009	\$25.00
.354 - .393	3/8	OTC16-010	\$25.00



**SLIM DESIGN ALLOWS  
CLOSER SPACING**  
Bars have 5/8" shanks



**EASIER TOOL  
CHANGES IN POSITION**



## COLLET SETS

**ER-11 Set (13 piece) \$295.00**  
 .020" - .276"

## COLLET SETS

**ER-16 Set (10piece) \$225.00**  
 .020" - .394"

## OMNITURN OTC-16 FLOATING TAP HOLDER (OMNITAP) \$225

The OmniTurn OTC-16 tap holder has many advantages. The tap holder will fit in all of the tooling bars with a 5/8" bore. The holder is kept from rotating by a pin from the top. It can float back and forth smoothly. A spring keeps the holder back against the tooling bar. If you program the feed of the tap a little lower than the lead, the assembly will pull out a little from the bar. Then when the spindle reverses, the tap just "floats". For small sensitive taps, this is better than a holder with a clutch that can snap the tap on the reversal. The holder is case hardened. It will last a long time.

The holder uses standard OTC-16 collets. Special tapping collets with a square broach in the back are available on request.

The holder takes no additional space on the tooling bar. It is much smaller than self releasing holders.

NOTE: If you are tapping to the bottom of a blind hole, or have to tap to a specific depth, then we recommend a self releasing tap holder. It is much easier to hold a depth with the release of a the clutch



The tap holder will fit in all of the tooling bars with a 5/8" bore.  
Uses ER-16 collets



## ER16 TAP COLLETS

Tapping collets are manufactured with an internal square drive that keeps the tap from spinning within the collet during use.

Tap Size	Shank Size	Price
0-6	0.141	\$59.50
8	0.168	\$59.50
10	0.194	\$59.50
12	0.220	\$59.50
1/4	0.255	\$59.50
5/16	0.318	\$59.50



## SELF RELEASING TAP HOLDER



**Tap Holder #TH00 \$631.00**

Bushings for Tap Holders

Tap Size	Tap Shank Dia	Part #	Price
#0 thru #6	.141	1001	\$41.50
#7-#8 - 5/32	.168	1002	\$41.50
#9-#10 - 3/16	.194	1003	\$41.50
#12 - 7/32	.220	1004	\$41.50
#14 - 1/4	.255	1005	\$41.50
9/32	.286	1006	\$41.50
5/16	.318	1007	\$41.50
11/32	.349	1008	\$41.50
3/8	.381	1009	\$45.00
13/32-7/16	.323	1010	\$45.00

- Right or left hand threading
- Eases tap into work for better matching
- No spring plungers to wear or break
- 1/8" pullout for releasing
- 7/16 max straight tap
- 1/8" max pipe tap
- Only 1.35" over hang



## ER Axial - Float Tension/Compression Tap Holders

### Application:

Axial-float/tension/compression type for C.N.C. milling machines and lathes with reversing motors and rigid tapping.

### Features:

Compensates for machine feed and tap pitch variance.

Floating mechanism compensates for misalignment between tap and work piece.

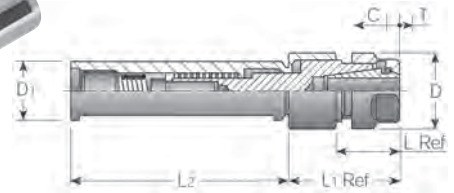
Right-and left-hand tapping.

### Advantages:

Practical and efficient tap holding by the ER spring collet without using jaw drive.

Compact design for minimal clearance applications.

Heavy Duty design for high torque drive ensures the same accuracy as the tap itself.



AXIAL-FLOAT TENSION COMPRESSION TAP HOLDERS									
Part #	Tap Capacity	D1	L2	L1	L	D	T	C	Price
ER11 Axial	#3-1/4"	5/8	6.00		.75	.63	.24	.12	\$349
ER16 Axial	#6-3/8"	3/4	3.15	1.61	.95	1.10	.32	.12	\$389

### HEAVY DUTY TAPPING SPINDLE AND HOLDER

The heavy duty tapping unit is similar to the OmniTurn OTC-16 Floating Tap Holder. It will take the abuse of larger taps. The tapping spindle uses standard OTC-16 collets. It will also work with OTC-16T collets. These tapping collets have a square broached into the back of the collet to positively drive the tap. Uses ER-16 collets.....

Available in 1/2" or 3/8" center height.



The spindle has two round flats that keep spindle from turning. This system will take the abuse of high production tapping

**Heavy Duty Tap Holder \$295.00**

### SUPER GRIP 5c COLLETS.....\$159

These collets have been specialty coated to prevent slippage of the material. This makes for a much better hold.

NO MORE PUSH BACK  
REDUCES COLLET CLOSER PRESSURE  
**COLLET ID IS NOW Rc 70 AND HIGHER**

SIZES - 1/2", 5/8", 3/4", 7/8" AND 1"

Please call for availability of other sizes.

### THROUGH SPINDLE COOLANT AND AIR BLASTS



Through spindle coolant \$1,250  
Through spindle air blast \$995.00  
Combined system \$1,500

*GET BETTER TOOLING LIFE*

*WITH LESS CHIP PROBLEMS*

New options for GT-75 and GT-Jr's: Through the spindle coolant and air blasts can be job savers. The issues of getting the coolant through the spindle to cool and lubricate the part can help improve tool life. Maintaining tolerance consistency is also helped. With both the coolant and air systems we have to change the draw tube for the collet closer and add solenoids for M function control. The addition of these options is easily done in the field by either one of our techs or by a knowledgeable end user. The same solenoids can be used to support tools or tool holders built to accept it. Such as Circle's boring tools with the through the tool coolant option.





INSERTS ARE SOLD IN PACKS OF 10 (TEN).  
ADD A \$1.00 TO THE COST OF EACH INSERT WHEN  
PURCHASING IN QUANTITIES OF LESS THAN 10 (TEN).

## OMNITURN'S MULTIBAR TURNING SYSTEM

THE OMNITURN MULTIBAR HOLDER AND INSERTS WERE SPECIALLY DESIGNED FOR SMALL PRECISION TURNING ON GANG TOOL LATHES.

NEW AND IMPROVED multibar is made with more material in the pocket area for better holding power of the insert. →



OMNITURN'S MULTIBAR **\$149.00**

Ground edges, not pressed.

Most other inserts have edges that have been pressed and honed. This does not create a sharp cutting edge. When used, there is more tooling pressure created on the radius edge. This causes problems with small "fine" turning. It becomes harder to hold tight tolerances & good finishes, consistently. MultiBar inserts are all ground to a sharp edge with no radius, greatly reducing tooling pressure. Our inserts produce more good parts and last longer than the less expensive alternatives.

One Standard bar with the widest choice of inserts.

The MultiBar will accept many different type of inserts: *Front and Back turning, Cut-off, Grooving, Threading, Plunge*

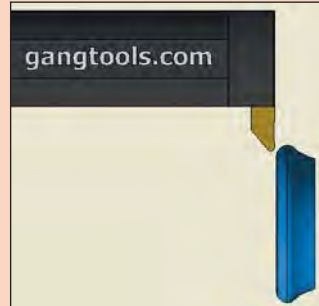
*and Turn.* Working with one style bar and inserts, you will be able to cover most small turning needs.

The holder & inserts take less space than any other two cutting tools on the market! Tooling space on gang tool lathes is always at a premium. The MultiBar under 1.1" wide, *including the inserts!!!*

For rigidity and longer life the MultiBar is made from hardened and ground 4140 steel. The MultiBar is made so that you can extend the cutting tools off the face of the slide and still take a deep cut. The bar can be used for heavy roughing cuts, or fine, precise finishing work.

Specially designed geometries help take deeper cuts.

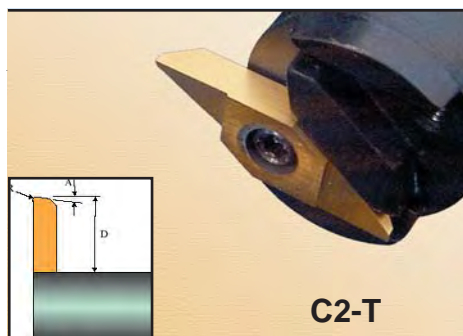
**All inserts available in uncoated. Please call for availability.**



**PROFILING INSERT - 6MM**

**VFTR-6M050 - \$29.95/each**

.030 RAD - C-2 uncoated  
.020 RAD - C-2 uncoated  
.010 RAD - C-2 uncoated



**C2-T**

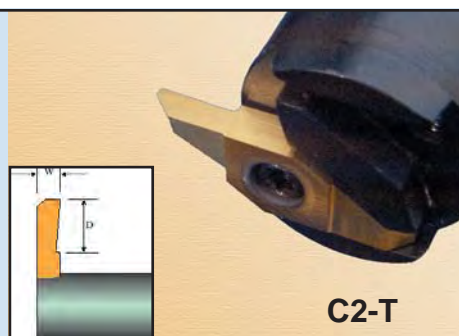
### FRONT TURNING

This insert can be used for general purpose turning. The .2" depth of cut can be used for most turning and facing operations.

The 45 deg. clearance on the back side of the tool can be used to undercut for a thread.

Insert #	A	D	R	Price
VFTR-6M010	1	.2"	.000	\$22.00
VFTR-6M040	4	.2"	.000	\$22.00
VFTR-6M152	15	.2"	.002	\$25.00
VFTRB-6M152*	15	.2"	.002	\$26.00
VFTR-6M157	15	.2"	.007	\$25.00
VFTRB-6M157*	15	.2"	.007	\$26.00

\* with chip breaker



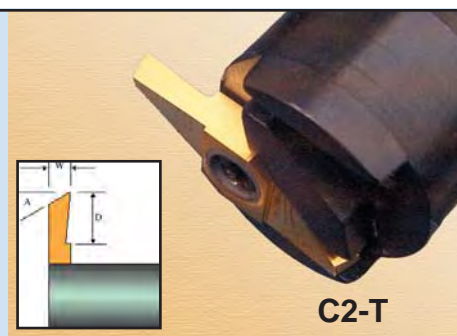
**C2-T**

### BACK TURNING

The back turning insert can be used for turning behind a shoulder.

This insert is ground on the front end so that it can easily plunge directly into the material before back turning.

Insert #	W	D	R	Price
VBTR-6M453	.047	.085"	.000	\$24.50
VBTR-6M454	.062	.130"	.000	\$24.50
VBTR-6M455	.078	.200"	.000	\$24.50
VBTR-6M456	.093	.200"	.000	\$23.50

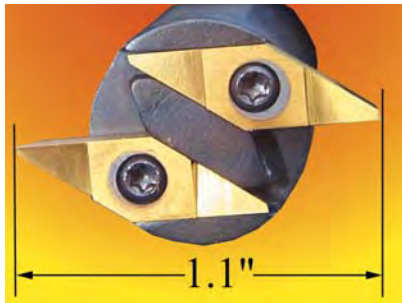


**C2-T**

### CUT OFF

The cut off inserts are designed for small precision cut offs. The face angle is very steep to help reduce the cutoff tit.

Insert #	W	D	A	Price
VCOR-6M2520	.020	.050	25	\$24.50
VCOR-6M2525	.025	.065	25	\$24.50
VCOR-6M2531	.031	.090	25	\$24.50
VCOR-6M2040	.040	.100	20	\$23.50
VCOR-6M2047	.047	.130	20	\$23.50
VCOR-6M1562	.062	.160	15	\$23.50
VCOR-6M1578	.078	.200	15	\$23.50
VCOR-6M1593	.093	.200	15	\$23.00



## FIT MORE TOOLS PER SETUP WITH THE OMNITURN MULTI BAR!

THE MULTI BAR PUTS TWO TURNING TOOLS IN THE SMALLEST AREA. THE WIDTH OF THE TOOL WITH INSERTS IS LESS THAN 1.1". BY USING THE MULTI BAR YOU CAN GET MORE TOOLS INTO THE SETUP WITHOUT COMPROMISING RIGIDITY.

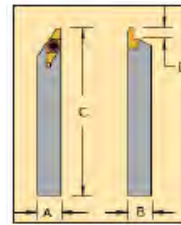


## OMNITURN'S MULTI BAR

**MultiBar with 5/8" shank \$149.00**  
Extra Torx wrench T-7 \$6.00  
Extra insert screws 2.40-064 \$4.00

- C-2 or C-5 grade carbides are available for all inserts.
- Unless requested, C-2T will be supplied.
- All prices quoted are for coated inserts. Uncoated are available, for \$1.00 less.
- All inserts shown are right handed. Left handed inserts are also available upon request.

## 6mm 35° SERIES TOOLING



SQUARE SHANK BAR  
Front Turn, Back Turn, Cut-Off,  
Groove Thread, Plunge & Turn  
W/ ONE TOOLHOLDER JUST  
CHANGE INSERT

\$98.00



R.H. HOLDER NO	A	B	C	D
SVANR-07M6M-C	7mm	7mm	127mm	5mm
SVANR-08M6M-C	8mm	8mm	127mm	5mm
SVANR-10M6M-C	10mm	10mm	127mm	5mm
SVANR-12M6M-C	12mm	12mm	127mm	5mm
SVANR-3756M-C	.375	.375	5.00	.200
SVANR-5006M-C	.500	.500	5.00	.200
SVANR-6256M-C	.625	.625	5.00	.200
SVANR-7506M-C	.750	.750	5.00	.200
Screw 2.40-064	\$3.00/ea	Wrench T-7	\$4.00/ea	

## MULTI BAR STARTER KIT

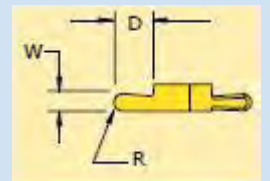
### (1) MultiBar PN S10DSVFNL6M2X

- |                   |             |
|-------------------|-------------|
| (1) Front turn    | VFTR-6M040  |
| (2) Front turn    | VFTR-6M157  |
| (1) Back turn     | VBTR-6M455  |
| (1) Cut off       | VCOR-6M1578 |
| (1) Cut off       | VCOR-6M2047 |
| (1) Groove .031   | VNGR-6M031  |
| (1) Threading     | VNVR-6M062  |
| (1) Threading     | VNVR-6M093  |
| (1) Plunge & turn | VTGR-6M078  |
| (1) Spare screw   | 2.40-064    |

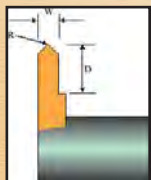


**MultiBar Starter Kit PN-6MBSK \$370.00**  
Includes bar, torx wrench and screw

## FULL RADIUS INSERTS



Insert #	Width	Depth	Radius	Price
VFRR-6M010	.010	.030	.005	\$25.00
VFRR-6M015	.015	.040	.007	\$25.00
VFRR-6M020	.020	.050	.01	\$24.50
VFRR-6M025	.025	.065	.012	\$24.50
VFRR-6M030	.030	.090	.015	\$24.50
VFRR-6M040	.040	.110	.02	\$24.50
VFRR-6M047	.047	.130	.023	\$23.50
VFRR-6M062	.062	.160	.031	\$23.50
VFRR-6M078	.078	.180	.039	\$23.50
VFRR-6M093	.093	.180	.046	\$23.00



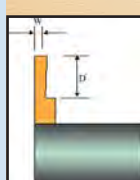
C2-T

### THREADING

The threading inserts are designed for small precision work. The tip radius is very small. This creates less tool pressure. Tool width is less than other inserts. You can thread to shoulders without having to modify the tool.

Insert #	W	D	R	Price
VNVR-6M031	.031	.150	.000	\$23.50
VNVR-6M047	.047	.180	.002	\$23.50
VNVR-6M062	.062	.200	.002	\$23.00
VNVR-6M093	.093	.200	.004	\$23.00

\* with chip breaker

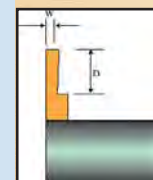


C2-T

### GROOVING

These inserts are a single piece of carbide vs the small inserts that other grooving tool manufacturers use.

Insert #	W	D	R	Price
VNGR-6M020	.020	.050"	.000	\$24.50
VNGR-6M025	.025	.065"	.000	\$24.50
VNGR-6M031	.031	.090"	.000	\$24.50
VNGR-6M040	.040	.100"	.000	\$24.50
VNGR-6M047	.047	.130"	.000	\$23.50
VNGR-6M062	.062	.160"	.000	\$23.50
VNGR-6M078	.078	.200"	.000	\$23.50
VNGR-6M093	.093	.200"	.000	\$23.00



C2-T

### PLUNGE AND TURN

The plunge and turn insert can also be used for back turning work. It does not have as much clearance and relief as the back turn insert. The front edge is parallel to the work piece.

Insert #	W	D	R	Price
VTGR-6M031	.031	.050"	.000	\$24.50
VTGR-6M047	.047	.085"	.000	\$24.50
VTGR-6M062	.062	.130"	.000	\$23.50
VTGR-6M078	.078	.200"	.000	\$23.50
VTGR-6M093	.093	.200"	.000	\$23.50



# 8mm 35 ° SERIES TOOLING INSERTS

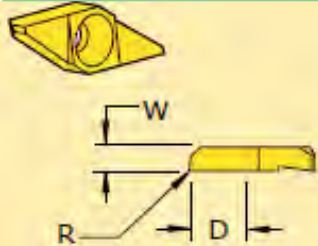
## SPARE PARTS

SCREW 3.20-095  
\$3.50

WRENCH T-10  
\$7.50

8MM Insert MultiBar  
\$195.00

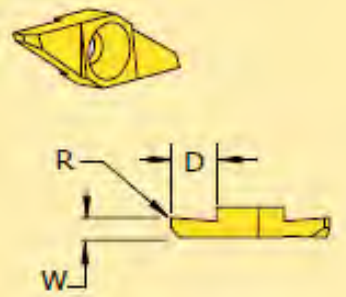
## FRONT TURN



RIGHT HAND SHOWN

		WIDTH		DEPTH		RADIUS	
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	INCH	MM
VFTR-8M040	\$22.00	.156	4,00	.300	7,62	.000	0,00
VFTR-8M045	\$23.00	.156	4,00	.300	7,62	.005	0,13
*VFTRB-8M040	\$24.50	.156	4,00	.300	7,62	.000	0,00
*VFTRB-8M045	\$24.50	.156	4,00	.300	7,62	.005	0,13
*WITH CHIP CONTROL							

## BACK TURN

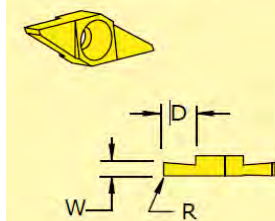


RIGHT HAND SHOWN

		WIDTH		DEPTH		RADIUS	
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	INCH	MM
VBTR-8M308	\$23.00	.125	3,18	.300	7,62	.000	0,00
VBTR-8M306	\$23.50	.093	2,36	.300	7,62	.000	0,00
VBTR-8M305	\$23.50	.078	1,98	.250	6,35	.000	0,00
VBTR-8M304	\$23.50	.062	1,57	.190	4,83	.000	0,00

## PLUNGE & TURN

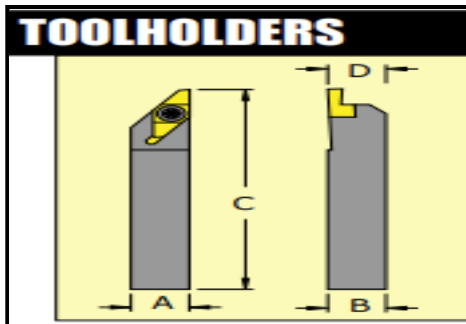
(SQUARE BOTTOM)



RIGHT HAND SHOWN

		WIDTH		DEPTH		RADIUS	
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	INCH	MM
VTGR-8M125	\$23.00	.125	3,18	.300	7,62	.000	0,00
VTGR-8M093	\$23.50	.093	2,36	.300	7,62	.000	0,00
VTGR-8M078	\$23.50	.078	1,98	.250	6,35	.000	0,00
VTGR-8M062	\$23.50	.062	1,57	.190	4,82	.000	0,00
VTGR-8M047	\$24.50	.047	1,19	.130	3,30	.000	0,00
VTGR-8M031	\$24.50	.031	0,78	.050	1,27	.000	0,00

## TOOLHOLDERS



SVANR-5008M-V  
SVANR-5008M-C  
SVANR-6258M-C

Square shank insert  
holder for 8MM  
inserts \$109.00

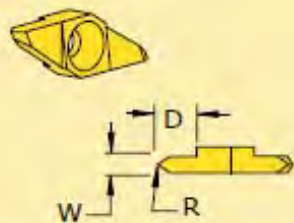
A	B	C	D
.500	.500	3.50	.505
.500	.500	5.00	.505
.625	.625	5.00	.630

3.20-095  
Screw \$3.50

T-10 Wrench  
\$7.50

# 8mm 35 ° SERIES TOOLING INSERTS

## THREADING 60 °

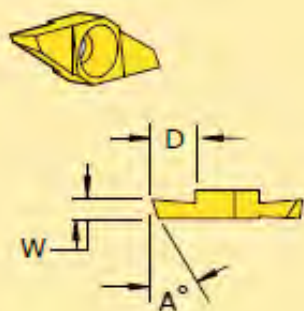


RIGHT HAND SHOWN

		WIDTH		DEPTH		RADIUS	
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	INCH	MM
VNVR-8M125	\$23.00	.125	3,18	.300	7,62	.004	0,10
VNVR-8M062	\$23.00	.062	1,57	.250	6,35	.002	0,05
VNVR-8M031	\$23.50	.031	0,78	.190	4,82	.000	0,00

THREAD FORM IS CENTRALLY LOCATED

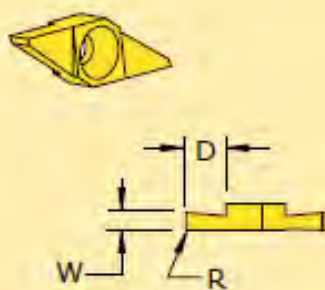
## CUT-OFF



RIGHT HAND SHOWN

		WIDTH		DEPTH		A °
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	
VCOR-8M158	\$23.00	.125	3,18	.320	8,13	15 °
VCOR-8M156	\$23.00	.093	2,36	.320	8,13	15 °
VCOR-8M155	\$23.00	.078	1,98	.320	8,13	15 °
VCOR-8M154	\$23.00	.062	1,57	.260	6,60	15 °
VCOR-8M153	\$23.50	.047	1,19	.190	4,83	15 °

## GROOVING



RIGHT HAND SHOWN

		WIDTH		DEPTH		RADIUS	
R.H. INSERT NO.	PRICE	INCH	MM	INCH	MM	INCH	MM
VNGR-8M125	\$23.00	.125	3,18	.300	7,62	.000	0,00
VNGR-8M093	\$23.00	.093	2,36	.300	7,62	.000	0,00
VNGR-8M078	\$23.00	.078	1,98	.250	6,35	.000	0,00
VNGR-8M062	\$23.00	.062	1,57	.250	6,35	.000	0,00
VNGR-8M047	\$23.50	.047	1,19	.190	4,83	.000	0,00
VNGR-8M040	\$23.50	.040	1,00	.130	3,30	.000	0,00
VNGR-8M031	\$23.50	.031	0,79	.080	2,03	.000	0,00

OMNITURN'S 8MM MultiBar **\$195.00**



## LARGE MultiBAR INSERTS & HOLDERS

• Larger inserts are available for use with a square shank holder and Double holder. The inserts will take heavier and deeper cuts. These holders and inserts are best held with the Omni Post-W.

• The tool is held off the face of the tooling plate with the Omni Post and holder. This enables longer turns and "back" work.

• The inserts are very cost competitive. They have three cutting edges, so the cost of the insert is not much more than the other "standard" inserts.



### STANR-085-V \$113.00

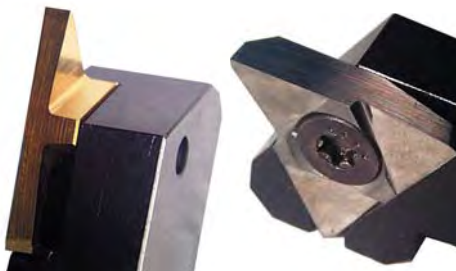
1/2" square shank - 3.5" overall length

#### Insert price notes:

- C-2T or C-5T grade carbides are available. Prices quoted are for C2T coated inserts. Uncoated inserts are POR
- Inserts shown are right handed. Left handed inserts and holders are also stocked.

INSERTS ARE SOLD IN PACKS OF 10 (TEN).

ADD A \$1.00 TO THE COST OF EACH INSERT WHEN PURCHASING IN QUANTITIES OF LESS THAN 10 (TEN).



Insert #	Width	Doc	Radius	Price
<b>FRONT TURN</b>				
TFTR-5040	.25	.44"	.000	\$29.50
TFTR-5045	.25	.44"	.005	\$31.50
TFTRB-5040*	.25	.44"	.000	\$31.50
TFTRB-5045*	.25	.44"	.005	\$33.00

\* Notes chip breaker is ground on top edge

#### CUT OFF

TCOR-51510	.156	.44"		\$31.50
TCOR-5158	.125	.44"		\$30.50
TCOR-5156	.093	.44"		\$30.50
TCOR-5155	.078	.37"		\$31.00
TCOR-5154	.062	.30"		\$31.00
TCOR-5153	.047	.23"		\$31.50

#### THREADING 60 DEGREE

TNVR-5125	.125	.44"	.004	\$31.50
TNVR-5093	.093	.37"	.002	\$31.00
TNVR-5047	.047	.25"	.000	\$31.00

Thread form is centrally located

#### BACK TURN

TBTR-5308	.125	.44"	.000	\$31.50
TBTR-5306	.093	.37"	.000	\$31.50
TBTR-5305	.078	.30"	.000	\$31.50
TBTR-5304	.062	.23"	.000	\$32.00

#### GROOVING

TNGR-5156	.156	.44"	.000	\$30.50
TNGR-5125	.125	.44"	.000	\$30.50
TNGR-5093	.093	.37"	.000	\$30.50
TNGR-5078	.078	.37"	.000	\$31.00
TNGR-5062	.062	.30"	.000	\$31.00
TNGR-5047	.047	.23"	.000	\$31.50
TNGR-5040	.040	.18"	.000	\$31.50

#### PLUNGE & TURN

TTGR-5156	.156	.44"	.000	\$31.50
TTGR-5125	.125	.44"	.000	\$31.50
TTGR-5093	.093	.37"	.000	\$31.50
TTGR-5078	.078	.30"	.000	\$31.50
TTGR-5062	.062	.23"	.000	\$32.00

## LARGE MultiBAR DOUBLE HOLDER



The MultiBAR inserts can take large. At the same time you can save slide space with the dual insert holding design.

### Dual Large MB holder ....\$179.00

(Uses right handed inserts)

Extra T-25 wrench.....\$5.50  
Extra 4.76-127 screw.....\$3.50

## LARGE MultiBAR



### LARGE MultiBAR IN A TF-625

### STANR-085-V Right Hand \$113.00

Starter kit with inserts PN-20MBSK \$395.00  
Extra T-25 wrench \$5.50  
Extra 4.76-127 screw \$3.50

#### Inserts for Starter Kits

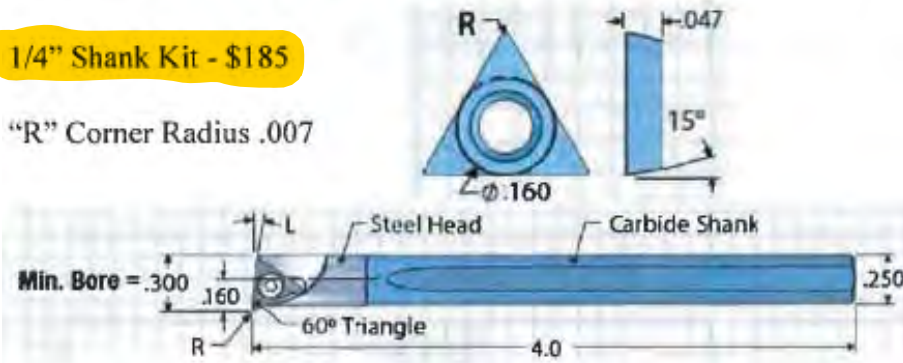
(1) Front turn	TFTRB-5045
(2) Front turn	TFTR-5040
(1) Back turn	TBTR-5308
(1) Cut off	TCOR-5156
(1) Cut off	TCOR-5155
(1) Groove .062"	TNGR-5062
(1) Threading	TNVR-5093
(1) Threading	TNVR-5047
(1) Plunge and Turn	TTGR-5093
(1) Spare screw	4,76-127



## INDEXABLE BORING BAR SETS - 1/4" and 3/8" SHANK

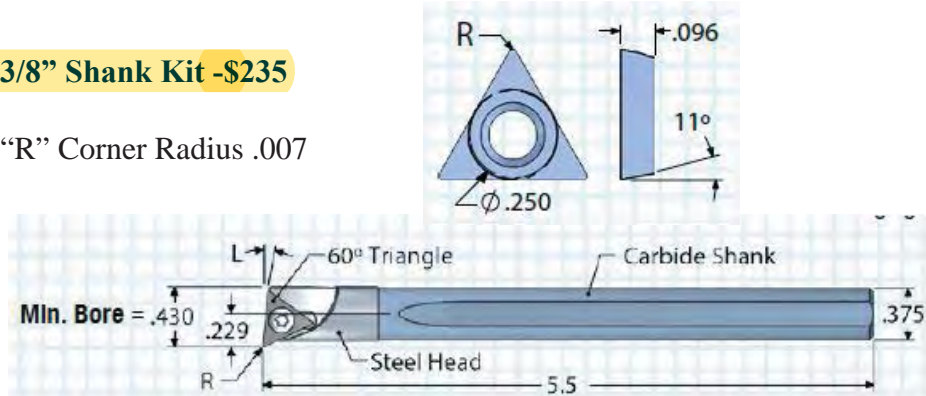
### 1/4" Shank Kit - \$185

"R" Corner Radius .007



### 3/8" Shank Kit - \$235

"R" Corner Radius .007



## RIGHT - HAND BORING BAR SETS *with* TRIANGLE-SHAPED CARBIDE INSERTS

Each kit includes:

- (1) Bar with flat (L-angle at 5 degree)
- (5) Altin + coated inserts
- (5) Screws
- (1) Wrench



1/4" Shank kit \$185.00  
3/8" Shank kit \$235.00



# ATTENTION - SWISS MACHINE USERS...

STAR

TSUGAMI  
Rem Sales, LLC

JINN FA

MAIER

CITIZEN

Hanwha  
Machinery America

TORNOS

**DEPTH OF CUT YOU WANT! - SHANK SIZE YOU NEED!**  
DESIGNED TO FIT YOUR SWISS TYPE CNC SCREW MACHINE WITHOUT THE NEED OF MODIFICATION OR LARGE OFFSETS

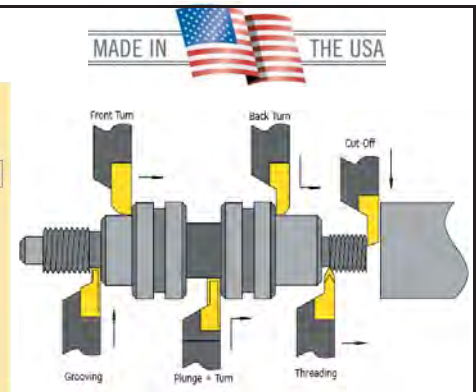
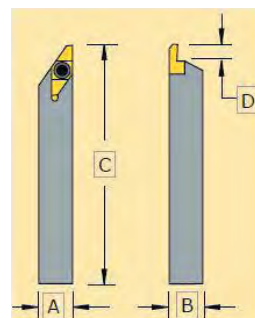
FRONT TURN \* BACK TURN \* CUT-OFF  
\* GROOVE \* THREAD \* LUNGE & TURN

- WITH ONE TOOLHOLDER, JUST CHANGE INSERT
- INSERTS ARE PRECISION GROUND FOR REPEATABILITY
- SCREW DOWN INSERTS CUT CLOSE TO BUSHING OR CHUCK
- ZERO RADIUS AS STANDARD
- WIDEST CHOICE OF INSERTS PER HOLDER
- MACHINE READY TOOLHOLDER DIMENSIONS

## RIGHT HAND SHOWN

R.H. HOLDER NO.	A	B	C	D
SVANR-07M6M-C	7mm	7mm	127mm	5mm
SVANR-08M6M-C	8mm	8mm	127mm	5mm
SVANR-10M6M-C	10mm	10mm	127mm	5mm
SVANR-12M6M-C	12mm	12mm	127mm	5mm
SVANR-3756M-C	.375	.375	5.00	.200
SVANR-5006M-C	.500	.500	5.00	.200
SVANR-6256M-C	.625	.625	5.00	.200
SVANR-7506M-C	.750	.750	5.00	.200
SPARE PARTS	SCREW 2.40-064		WRENCH T-7	

## TOOL HOLDERS



Bar Price: **\$98.00** [Uses 6mm inserts on pages 14-15]

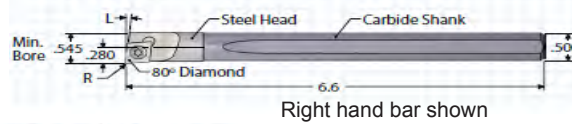
SEE PAGES 12 AND 13 FOR COMPATIBLE INSERTS - CUSTOM INSERTS AVAILABLE UPON REQUEST

## FACE AND TURN BAR WITH INSERTS 1/2" CARBIDE SHANK - DIAMOND SHAPED INSERTS

BAR: EACH BAR COMES WITH ONE SCREW AND ONE KEY **\$165.00.**

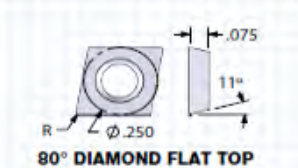
BAR AND INSERT KIT: COMES WITH ONE BAR, FIVE INSERTS AND FIVE SCREWS **\$229.00.**

### BAR WITHOUT COOLANT HOLE



"L" ANGLE 5 DEGREES  
1/2" SHANK WITH FLAT  
LEFT HAND BAR

### CARBIDE INSERTS



"R" CORNER RADIUS 0.007  
90 DEGREE DIAMOND FLAT TOP  
UNCOATED OR ALTIN+



**\$195.00 Each**  
**Available sizes**

1/8"  
3/16"  
1/4"  
5/16"  
3/8"  
7/16"  
1/2"  
5/8"  
3/4"

**GT-75 AND GT-JR ROUND SPINDLE LINERS:**

**\$195.00 each**



### SPINDLE LINERS

OmniTurn is now offering a new style of spindle liner. A cast polyurethane liner. This new style liner supports the bar better, helps dampen bar whip and vibration, and weighs less. Custom ID shapes and sizes are available, POR. Excellent liners for square, hex and extruded shapes.

*The tubes are oversized to fit this stock.*

**Drawtube spindle plugs \$69.00**

"Custom sizes available on special order"

Hex style available call for pricing

## USB extension cable: **\$39.00**

**Great for when it's difficult to get to the back of the machine to access the thumb drive.** You can now access the USB slot from the front of the machine.





# Indexable tools for small parts under .200" (5mm) diameter —



Cutoff chip  
breaker in bar



Cutoff in bar



Front turn chip  
breaker in bar



Front turn in bar








Groove in bar



BAR \$298.00

Part # DS-CSVL15.....\$198.00

Spare parts	
Clamp screw	Wrench
\$5.75	\$6.88
LRIS-2.5x7	RLR-15S
<del>\$3.15</del>	<del>\$4.00</del>

Multi series			Inserts for Bar # DS-CSV15			
Front Turning		CSVF style	(Polished)			
	Item Number	Chip breaker	Dimensions Inch (mm)		Price Each	
			Max. Machining depth	Edge Shape (a x β°)		
	CSVF11FR/V-M	No	-	.006 (0.15) x 2°	<del>\$19.87</del>	
	CSVF11FR/VB-M	Yes	.118 (3.00)	.006 (0.15) x 2°	<del>\$21.20</del>	
Back Turning		CSVB style	(Polished)			
	Item Number	Chip breaker	Dimensions Inch (mm)		Price Each	
			Cutting width W	Edge Shape (a x β°)		
	CSVB11FR/V	No	.039 (1.00)	.012 (0.3) X 5°	<del>\$19.87</del>	
	CSVB11FR/V-M		.039 (1.00)	.006 (0.15) x 2°	<del>\$19.87</del>	
	CSVB11FR/VB	Yes	.039 (1.00)	.012 (0.3) X 5°	<del>\$21.20</del>	
	CSVB11FR/VB-M		.039 (1.00)	.006 (0.15) x 2°	<del>\$21.20</del>	
Cut Off		CSVC style	(Polished)			
	Item Number	Chip breaker	Dimensions Inch (mm)		Price Each	
			W	Max. cut-off depth		L
	CSVC11FR/V07	No	.028 (0.7)	.079 (2.0)	.098 (2.5)	<del>\$19.87</del>
	CSVC11FR/V10	No	.039 (1.0)	.098 (2.5)	118 (3.0)	<del>\$19.87</del>
	CSVC11FR/V15	No	.059 (1.5)	.098 (2.5)	118 (3.0)	<del>\$19.87</del>
	CSVC11FR/VB07	Yes	.028 (0.7)	.079 (2.0)	.098 (2.5)	<del>\$21.20</del>
	CSVC11FR/VB10	Yes	.039 (1.0)	.098 (2.5)	118 (3.0)	<del>\$21.20</del>
	CSVC11FR/VB15	Yes	.059 (1.5)	.098 (2.5)	118 (3.0)	<del>\$21.20</del>
Threading		CSVT style	(Polished)			
	Item Number	Chip breaker	Dimensions Inch (mm)		Price Each	
			Pitch	Tool Nose Radius		
	CSVT11FR/P60-035-A	No	.088 (0.2) ~ .020 (0.5)		.001 (0.03) MAX	<del>\$23.84</del>
	CSVT11FR/P60-035-B					<del>\$23.84</del>
Grooving		CSVG style	(Polished)			
	Item Number	Chip breaker	Dimensions Inch (mm)		Price Each	
			W	Max. Machining depth		L
	CSVG11FR/V025	No	.010 (0.25)	.006 (0.15)	.020 (0.50)	<del>\$19.87</del>
	CSVG11FR/V035		.014 (0.35)			<del>\$19.87</del>
	CSVG11FR/V050		.020 (0.50)			<del>\$19.87</del>
	CSVG11FR/V060		.024 (0.60)	.018 (0.45)	.039 (1.00)	<del>\$19.87</del>
	CSVG11FR/V070		.026 (0.65)			<del>\$19.87</del>
	CSVG11FR/V075		.030 (0.75)			<del>\$19.87</del>
	CSVG11FR/V090		.035 (0.90)	.005 (1.40)	.079 (2.00)	<del>\$19.87</del>
	CSVG11FR/V100		.039 (1.00)			<del>\$19.87</del>
	CSVG11FR/V120		.047 (1.20)			<del>\$19.87</del>
	CSVG11FR/V140		.055 (1.40)	.102 (2.60)	.118 (3.00)	<del>\$19.87</del>
	CSVG11FR/V157		.062 (1.57)			<del>\$19.87</del>

# MULTIBAR TREPAN FACE GROOVING

**\$175.00** 5/8" Shank

Extra Insert screws 2.40-064 \$3.50 each



Cutting a face groove can be difficult without the correct tooling. Here is a holder and insert that makes doing this easy. The holder has flats on both sides of the bar, it can be held with the cutter facing up or down.

- Min diameter .187" • Max diameter .750"
- From .05" to .2" depth of cut
- From .03" to .09" wide grooves
- C2 carbide with positive rake



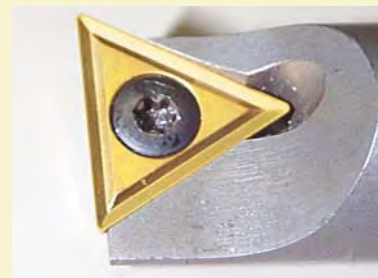
**SIDE CLEARANCE FOR SHOULDERS**

## MultiBar Face Groove bar **\$175.00**

Insert #	Width	Depth	Min Major Dia	
VFGL-6M305025.03"	.05"	.25"		\$28.00
VFGL-6M307550.03"	.075"	.50"		\$28.00
VFGL-6M406025.04"	.06"	.25"		\$28.00
VFGL-6M409050.04"	.09"	.50"		\$28.00
VFGL-6M507530.05"	.075"	.30"		\$28.00
VFGL-6M501060.05"	.10"	.60"		\$28.00
VFGL-6M608030.06"	.08"	.30"		\$28.00
VFGL-6M601060.06"	.10"	.60"		\$28.00
VFGL-6M709030.07"	.09"	.30"		\$28.00
VFGL-6M701260.07"	.12"	.60"		\$27.00
VFGL-6M801030.08"	.10"	.30"		\$27.00
VFGL-6M801460.08"	.14"	.60"		\$27.00
VFGL-6M901430.09"	.14"	.30"		\$27.00
VFGL-6M902060.09"	.20"	.60"		\$27.00
Extra Torx wrench T-7				\$5.50
Extra insert screws 2.40-064				\$3.50

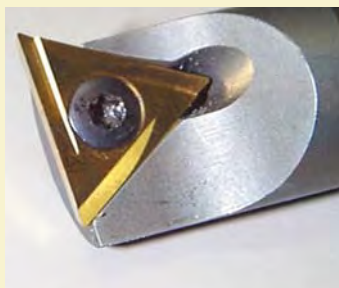
sold in packs of ten

## LEFT HANDED TURNING



**TURNING INSERT W/ .015 TNR**

This is a 5/8" round shank turning bar. The rake angle is 0 degree. The tool is very useful for heavy turning and light facing. The tool is very rigid and the in-sert is well supported. Threading inserts are also available.



**NOW HAS FLATS ON BOTH SIDES  
FOR BETTER STABILITY.**

**Left Handed turning Tool  
\$156.00**

**Spare screw - SC-30 \$3.50**

**TPCG-3205-CG5 \$17.50 each**  
Left Handed Turning w/.007 TNR

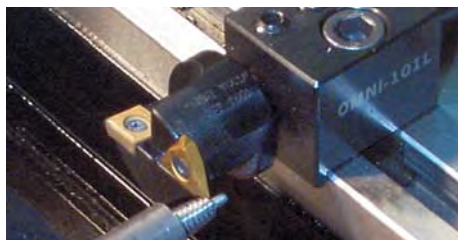
**TPGH-321-CG5 \$17.50 each**  
Left Handed Turning w/.015 TNR

Starter kit, includes one bar and 10 inserts  
LH bar, (5) TPGH-320, (5) TPGH-321 **\$299.00**



*With gang tooling lathes, space is at a premium. Shank style holders take up much less space on the slide!*

## OMNITURN'S T/T TOOL SAVES SPACE AND TIME



T/T Tool Holder only **\$195.00**  
T/T Starter Kit **\$325.00**  
Includes:  
(3) OMTN-007 (3) OMTN-015 (4) 375-TD10

Inserts  
**Threading 375-TD** **\$23.75 ea**  
Threading insert for T/T Tool (sold in box of 10), 3 sided, coated  
**Turning OMTN-007** **\$15.90 ea**  
Turning insert for T/T Tool (sold in box of 10), 2 edged, coated, .007" TNR  
**Turning OMTN-015** **\$14.90 ea**  
Turning insert for T/T Tool (sold in box of 10), 2 edged, coated, .015" TNR  
Accessories  
**FT-9** Torx wrench for threading insert **\$3.50**  
**VR-1** Screw for threading insert **\$3.50**  
**MS1027** Screw for turning insert **\$3.50**



## ISCAR CUT OFF BLADE



W	Part #	R	K	Price
.087"	GFR 2-4D	.006	4	\$17.45
.087"	GFR 2-6D	.006	6	\$17.45
.087"	GFR 2-8D	.006	8	\$17.45
.087"	GFR 2-15D	.006	15	\$17.45
.087"	GFR 2S-15	.001	15	\$17.95

Iscar 11/16" x 1/16" Cutoff Blade.....\$162.00

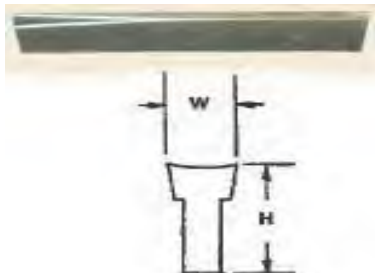
## Low Cost! MORE PIECES PER BLADE!

Longer wear, less galling, better finish, higher speeds than high-speed steels. PLUS greater rigidity and up to 10 times the re-sharpen able tool life of carbide tipped tools.

Tools are supplied ready for use with cut-off angles sharpened on both ends so that tools can be used on front or rear slide and for either right or left hand operations.

**WIDTH - 1/16"**  
**HEIGHT - 11/16"**  
**LENGTH - 4"**

**REF. NO. - P-3N-866 .....\$155.00**



## ROTATING BROACH (WOBBLE BROACH)

This tool is used to produce hexagon, square, and other irregular internal shapes in the work piece as it is rotating in the spindle of the machine.

Minimal tool driving force is required due to the spindle offset which distributes the load of the cut. The tool holder spindle, which is mounted in ball bearings, rotates freely with the work piece and does not require auxiliary driving attachments.



**SOMMA OFFSET ROTATING BROACH TOOL**

5/8" SHANK, 2" OVERHANG, 1-1/2" WIDTH

PART #: BROACH.....\$1062.00



## HEX - INCH .....PART #: BROACHTOOL

HEX	FLATS	DEPTH	PART	# PRICE
.050	.0505	5/64	HX00-.050	\$67.00
1/16	.0630	3/32	HX00-1/16	\$67.00
5/64	.0786	7/64	HX00-5/64	\$67.00
3/32	.0947	9/64	HX00-3/32	\$67.00
7/64	.1106	5/32	HX00-7/64	\$67.00
1/8	.1265	3/16	HX00-1/8	\$67.00
9/64	.1421	7/32	HX00-9/64	\$67.00
5/32	.1582	1/4	HX00-5/32	\$67.00
3/16	.1895	9/32	HX00-3/16	\$67.00
7/32	.2212	11/32	HX00-7/32	\$67.00
1/4	.2525	3/8	HX00-1/4	\$67.00

## SQUARE - INCH

HEX	FLATS	DEPTH	PART #	PRICE
3/32	.0947	9/64	SQ00-3/32	\$67.00
1/8	.1265	3/16	SQ00-1/8	\$67.00
5/32	.1582	1/4	SQ00-5/32	\$67.00
3/16	.1895	9/32	SQ00-3/16	\$67.00
7/32	.2212	11/32	SQ00-7/32	\$67.00



# AIR CHUCKS

NORTHFIELD... THE WORLD LEADER IN PRECISION WORKHOLDING AIR CHUCKS.

Guaranteed accuracy from 0.0001" (2.5μ) to 0.000010" (0.25μ)

## Productivity

- Automatic self-centering.
- Uniform pre-determined holding pressure.
- Adjustable jaw force for semi-rough or fragile holding.
- Automatic or manual operation.
- Jaws can be removed and replaced accurately.

## Reliability

- Rotary joint air bearing eliminates metal-to-metal wear for extremely long life.
- Balanced to operate at high speeds.
- Built-in, self-contained air cylinder.
- Built-in safety features.

**MADE IN THE U.S.A.**

## Reasons why you should use an air chuck:

1. Dead length
2. Part diameter variations - does not effect holding force
3. Can hold thin walled or delicate parts with very concentric and adjustable clamping pressure

**Model 350 - 3 Inch - 3 jaw (.060" opening) \$3,995.00**  
**(76mm) - (1.5mm opening)**

Model 350 Air Chuck comes complete.  
Including air tube assembly and one set of #AL-1-3-3/4  
aluminum top jaws and mount.

**Max. Recommended RPM 4200**

**Max. Opening of Jaws .060" (1.5mm)**

**Force per Jaw** variable to 316 lbs. (144 kg)

**Repeatability** concentricity - .0001 (2.5μ) T.I.R. max  
end lengths - .0001 (2.5μ) T.I.R. max

**Also available with .000010" (10 millionths) (2.5μ)**  
**repeatability.**

**Master Jaws** move at perfect right angle to  $\perp$  of spindle

**Model 450 - 4 Inch - 3 jaw (.100" opening) \$4,295.00**  
**(100mm) - (2.5mm opening)**

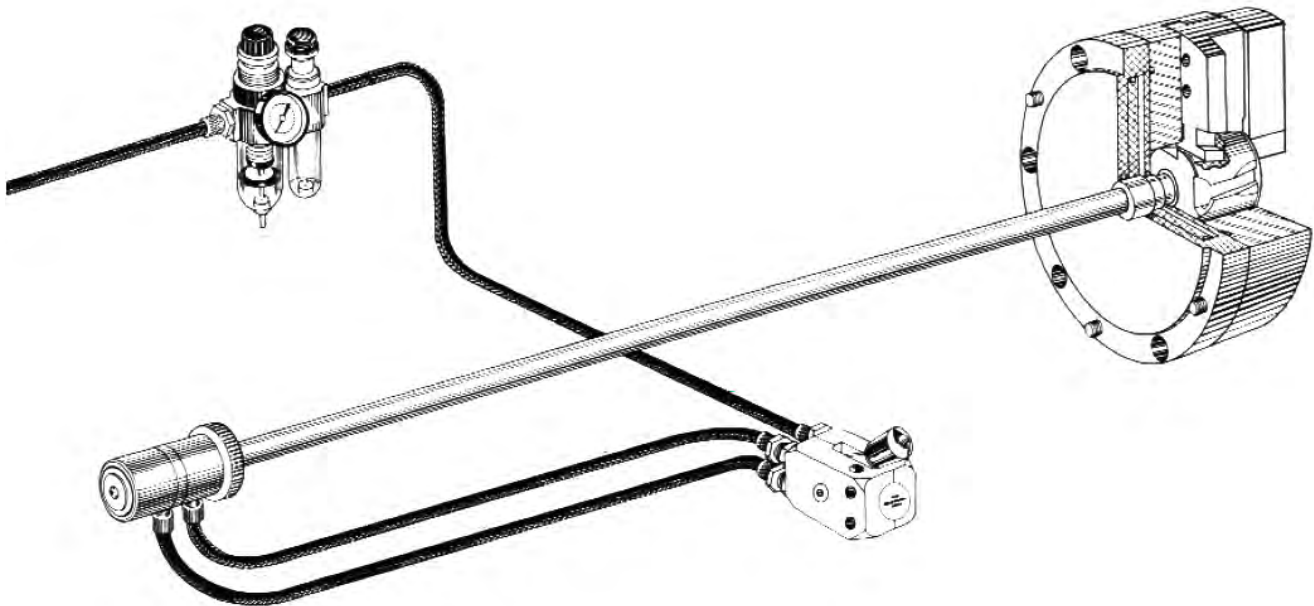
Model 450 Air Chuck comes complete  
Including air tube assembly and one set of #AL-1-4-3/4  
aluminum top jaws and mount.

**Max. Recommended RPM 3000**

**Max. Opening of Jaws .100" (2.5mm)**

**Force per Jaw** variable to 625 lbs. (284 kg)

**Repeatability** concentricity - .0001 (2.5μ) T.I.R. max  
end lengths - .0001 (2.5μ) T.I.R. max





Part Number	Thru-Hole MM	Max Radial Stroke	Max Radial Stroke w/ Dunham Collet Closer	Max Speed Min -1 (R.P.M)
<b>B204</b>	26	.19"	.13"	8000
<b>N04</b>	No	.19"	.13"	6000
<b>NT04</b>	No	.19"	.13"	6000

B204	N04	NT04
------	-----	------



**4" - 3 JAW AUTOMATIC CHUCK  
w/ 1" THRU HOLE**

Part Number .....B204

Includes 1 set of steel jaws, adapter plate for spindle nose, adapter for between draw tube and chuck actuator

**\$4,395.00**



**4" - 3 JAW AUTOMATIC  
CHUCK BLIND**

Part Number .....N04

Includes 1 set of steel jaws, adapter plate for spindle nose, adapter for between draw tube and chuck actuator

**\$3,995.00**

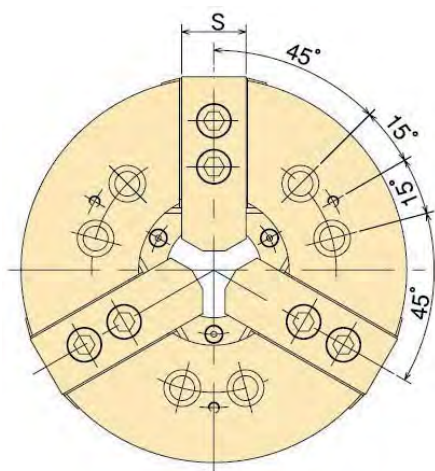


**4" - 2 JAW AUTOMATIC  
CHUCK BLIND**

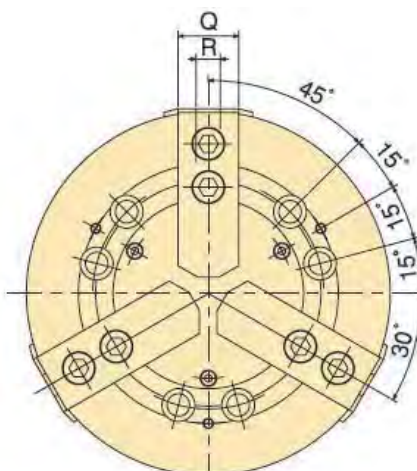
Part Number .....NT04

Includes 1 set of steel jaws, adapter plate for spindle nose, adapter for between draw tube and chuck actuator

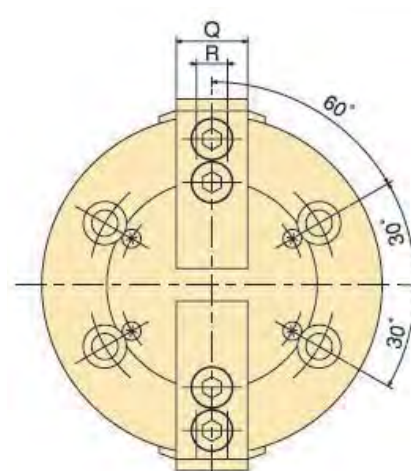
**\$3,595.00**



B204



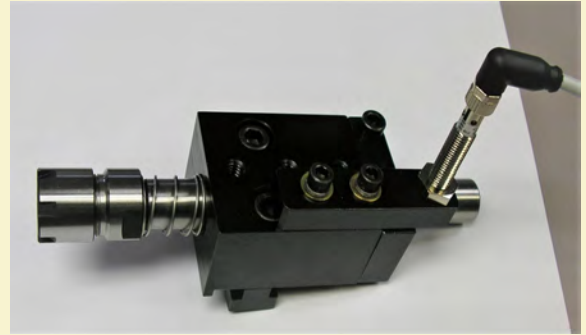
N04



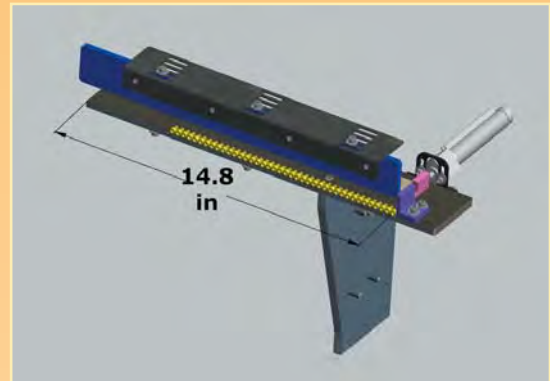
NT04

**PICK UP ASSEMBLY**

- Includes tool block
- Spring loaded base
- Safety switch
- ER16 holder and collet

**\$550.00****SIMPLE AUTOMATION FOR GT SERIES MACHINES**

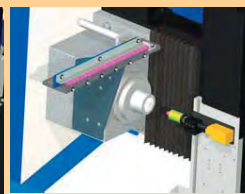
- Installs in minutes by the end user
- Universal design makes it very versatile
- Setup in less than 1/2 hour
- 5-6 second typical load/unload times
- Inexpensive

**TRACK LOADER FOR PART WITHOUT HOLE**

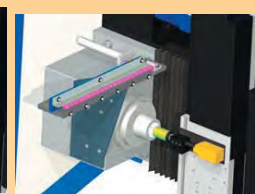
Position pickup cup in front of last part in track



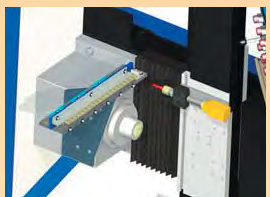
Push part into pickup cup



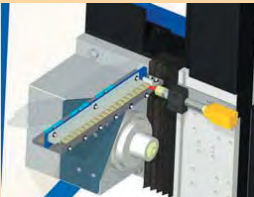
Position part in cup in front of the spindle



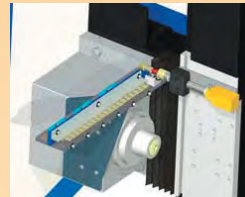
Push part into collet

**TRACK LOADER FOR PART WITH HOLE**

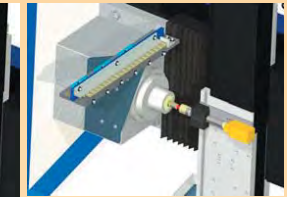
Position loader pin in front of last part in track



Insert pin into part



Lift part out of track with X (-) move



Push part into collet

**Basic Track Loader** - In-feed track approx 14.8" long. Will accept parts up to 2" dia. & larger up to 2-5/8" **\$2,500.00**

**Part Pusher Piston** - Includes blank pusher tip, flow controls, solenoid and air regulator. **\$ 550.00**

**Pickup Assembly** - includes tool block, spring loaded base assembly, safety switch with mounting plate and wiring instructions, choice of ER16 collet **\$ 550.00**

**Part Transfer Gripper** Mounted on slide - Air actuated 2 jaw chuck with mounting plate, over travel safety switch and solenoid. Requires spare M-function typically M-25 M-26 [Comes with face-plate fixture for boring gripper jaws. Fixture has 1/2" diameter mounting shank] **\$2,550.00**

**Part Chute** - with removable wire basket for finished parts. Part chute mounts on tooling plate. **\$ 975.00**  
Parts exit chute into wire basket at right side of machine. Kit includes sheet metal frame and drain pan for wire basket, wire mesh basket with handles (10" wide x 16" long x 4-1/2" high) Requires some cabinet sheet metal fabrication and installation by end user.



## SUHNER SPINDLES AND DRIVES

### BEWI-4 AND BEWI-6 SPINDLES



Uses OTC-16 collets

OmniTurn offers a series of different Suhner spindles and drives that cover a large range of needs. Much of the Suhner accessories can be mixed and matched in many different configurations. If you would like our opinion on how to tool up your job, give us a call.

Unless you have a special reason to go the larger BEWI-6 we recommend the smaller unit for most applications. Here are a few notes on some of the issues.

The BEWI-6 is substantially longer than the BEWI-4. The cable is also much longer before it can bend. This combined length will create problems with the sheet metal enclosure of the GT-75. If you are planning on using the quill with a vertical holder, you will not be able to use the Lexan front door. (See adapter below)

Cross drilling is also an issue with the larger BEWI-6. The unit can only be used from the top (X-). The cable must then go through the top of the cabinet. The BEWI-4 can be snaked through the cabinet and out a hole in the back right corner.

Spindle	OD	Collet	Fitting	Fitting	Cost
BEWI-4	30mm	ER-16 13/32" max	G22	NA7	\$995.00
BEWI-6	40mm	ER-16 13/32" max	G22	NA7	\$1,550.00
OMNI-36	36mm	ER-16 13/32" max	G12/G28	NA7/NA12	POR
Cable	Connector	Length	Capacity	Core	
NA7:	.750OD	2000mm	5/32"	DIN10/G22	
NA7 core only					\$185.00
NA7 case only					\$390.00
NA12:	1.08OD	2000mm	1/4"	DIN10/G28	
NA12 core only					\$295.00
NA12 Case only					\$595.00
Drive	Voltage	Connector	HP	RPM	
MiniFix	200V 1 phase	Din-10	1/2		\$960.00
Omniturn CD	200V 1 or 3 phase	Din-10	1	875-3300	\$1,200.00
Omniturn CDVS	200V 1 or 3 phase	Din-10	1	400-7000	\$1,800.00

### New Live Tooling for Gang Tooled Lathes - Great for use with new plane switching software

- Live tooling made in the USA.
- 1/2HP variable speed from 500 to 7200 rpm  
(3 belt change ranges for most torque)
- Precision spindle with angular contact bearings for milling and slotting
- ER-16 collet spindle, quick change, concentric, off the shelf

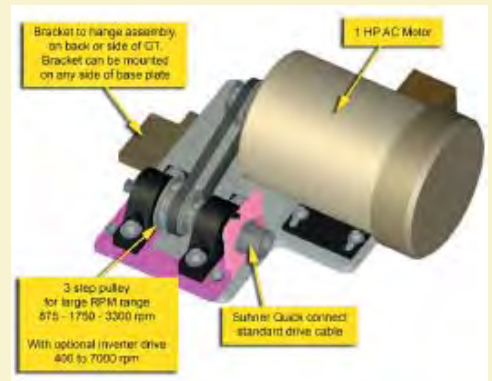
#### Omni-36 Live Spindle System.

The Omni-36 is based on a precision spindle and DC spindle drive motor. Once you own one version, you can convert it to the other with the purchase of a few components.



(Guards removed for picture)  
Vertical Setup  
Coarse and fine adjustments for cutter height

## OMNITURN LIVE TOOL CABLE DRIVE



### LIVE TOOL KITS

#### Cable Drive System

##### Cable Drive, BEWI-4 Spindle

NA7 or NA12 Drive Cable	
.....VS with NA7	\$2,995.00
.....CDVS with NA7	\$3,250.00
.....VS with NA12	\$3,195.00
.....CDVS with NA12	\$3,550.00

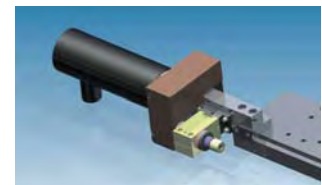
##### Cable Drive Precision System

Cable Drive, Omni-36 Spindle	
Spline and Adaptor NA7 or NA12 Drive	
Cable .....	VS with NA7 \$3,250.00
.....CDVS with NA7	\$3,695.00
.....VS with NA12	\$3,350.00
.....CDVS with NA12	\$3,995.00

**VS = 3 STEP PULLEY SYSTEM - 875-1750-3300 RPM**  
**CDVS = WITH VARIABLE SPEED INVERTER - 400-7000 RPM**

#### Requirements:

M function controlled outlet for 220V 3 phase. Can be used on all OmniTurns. To be used automatically, it should be used with C axis.



Horizontal Setup  
Adjustable for drilling on center or off center



In-Line Setup  
.209" above center height.  
Other systems are available for on center work.

## NSK MACHINE TOOL SPINDLE COMBINATIONS

### E2000 SERIES COMBINATION 1K-50K (RPM)- 200 WATTS



#### UNIT SPECIFICATION

Model	NE314
Power source	AC-100 50-60 Hz 1 phase
Power consumption	1.45A
Weight	4lb. 14.99 oz.
MOTOR & SPINDLE	
Motor	EM25N-5000- J4
Spindle	NR-2551
Speed	1,000 – 50,000 min - (rpm)* 500 min -1 (rpm) : for centering
Weight	1 lb. 0.40 oz. (w/o motor cable)
Dimensions	Ø 0.98" x 7.41"

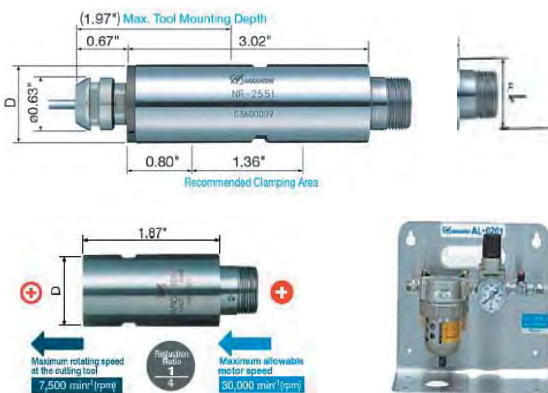
#### E2000 SERIES COMBINATION:

CAT. NO.	MODEL	PRODUCT	PRICE
7720	NE314	Control Unit	\$1,445.00
AS88322	EM25-N5000-J4	Brushless Motor w/cord	\$1,298.00
AS81820	NR-H2551	1" OD Spindle	\$1,039.00
4504	AL-C1204	Air Line Kit	\$415.00
Total			\$4,197.00

NSK Omni-Live Tool Holder - Part # 1" BORE \$195.00  
WITH BRASS CLAMP TO HELP PROTECT SPINDLE

Spindle

1.00" OD



### LIVE TOOL HOLDER W/ BRASS CLAMP



This holder is great for when you need to hold a 1" OD live tool on center with the spindle



Live in-line 1" Bore \$195.00  
Live in-line 30mm Bore \$225.00  
Live in-Line 36mm Bore \$225.00

#### Speed Reducer D=Ø1.0" (Ø25.4mm), Ø0.98" (Ø25mm)

CAT No.	Model	Outside Diameter	Speed Reduction Ratio	Price
AS81826P	ARG-H2504N	Ø1.0" (Ø25.4mm)	¼"	
AS81822P	ARG-2504N	Ø0.98" (Ø25MM)		

NSK Omni-Live Tool Holder -  
Part # Omni 590 - 1/2" center height - \$185



## E3000 SERIES COMBINATION 30,000 MIN (RPM) - 92 WATTS

## CONTROL UNIT NE211 60,000 MIN-1 (RPM)



### BRUSHLESS

MOTOR.....\$1,320.00

Model: EM-3060

Description: Brushless Motor (cord with quick disconnect)

Standard Equipment - Accessories:

Wrench (22 x 27): 1 piece

Motor cord - Sold Separately



Spindle.....\$1008.00

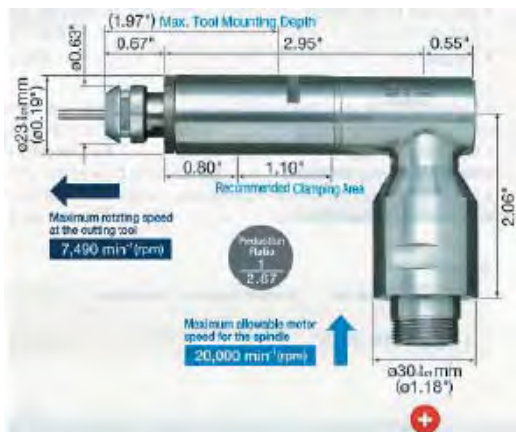
Model: NR403E [30MM OD]

Standard Equipment - Accessories:

Collet Ø1/8" (chk - 3.175)

Collet Nut (K-265): 1 pc

Wrench (12 x 14): 2pcs., (22 x 27): 1 pc



90° ANGLE SPINDLE.....\$782.00

MODEL: ASE1559

Standard Equipment - Accessories:

Collet Ø1/8" (chk - 3.175)

Collet Nut (K-265): 1 pc

Wrench (12 x 14): 2pcs., (22 x 27): 1 pc

Motor Cord 13'.....\$379.00

EMCD-3000 4M (connector cap provided)



• External Input-Output  
Connector A (D-SUB25 Female)

• External Input-Output  
Connector B (D-SUB15 Female)

• Motor Connector

• Air Output Joint ø6 mm

• Air Input Joint ø6 mm

• Power Switch

• Communicate Connector  
for NE212

• Intake with Power Fuse

**\$2,339.00**

Specifications	
Model :	NE211
Power Source :	AC120V
Motor Speed :	1,000-60,000 min-1(rpm)
Max. Output Power :	350W (For ø1.18")
Power Consumption :	1.8A
Air Flow Volume :	1.0CFM (36-44PSI)
Weight :	6 lb. 2.77 oz.
Dimensions :	W3.46" x D5.43" x H9.37"



## SELECTOR UNIT NE212 60,000 MIN-1 (RPM)

- Motor Output Connector 1~4
- Motor Input Connector
- Air Input Joint ø6 mm
- Connector for Communication (D-SUB9 Female)
- Power Switch
- Motor Input Connector
- Intake with Power Fuse
- Air Output Joint 1~4

**\$1,455.00**

Specifications	
Model :	NE212
Power Source :	AC120V
Power Consumption :	0.15A
Air Flow Volume :	Max. 4.0CFM (51PSI / Using max. 4 motor/spindles)
Weight :	4 lb. 3.02 oz.
Dimensions :	W3.46" x D5.43" x H9.37"



**E3000 COMBO TOTAL \$5,445.00**

**NE211 CONTROL \$2,339.00**

**NR-403E 30MM SPINDLE \$1,008.00**

**EM-3060J MOTOR \$1,320.00**

**EMCD-3000J-3M CORD \$363.00**

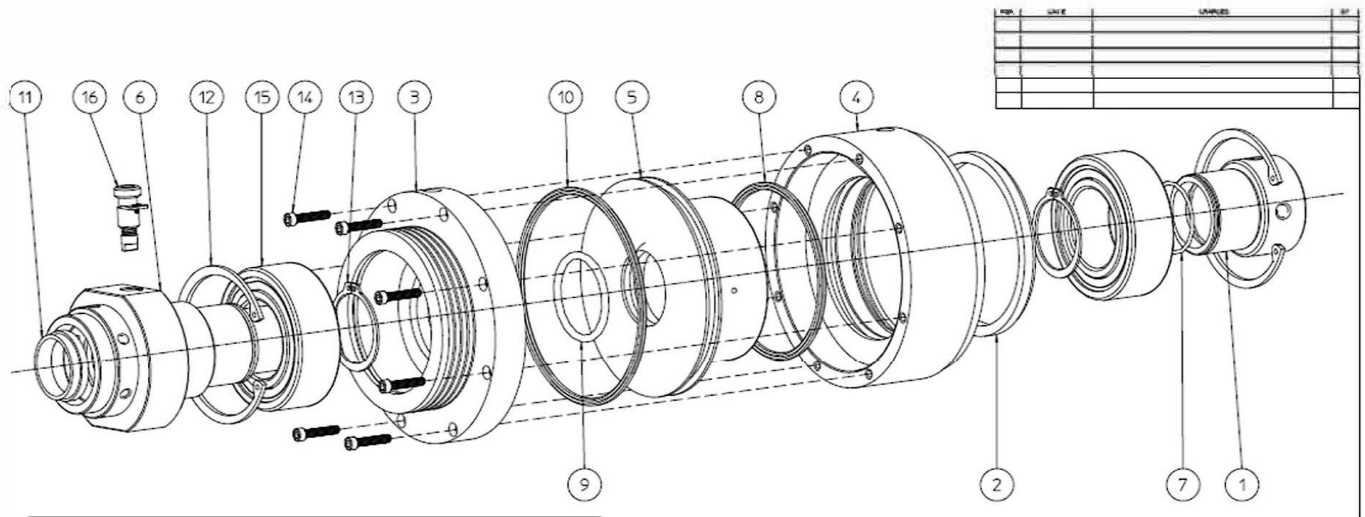
**AL-C1204 AIR KIT \$415.00**

## GT-75 / GT-JR DUNHAM COLLET CLOSERS

Mobil "DTE" light (or Equivalent) - One drop every 15 seconds - Air pressure: 15 PSI

	Dunham Collet Closer w/ Drawtube	693-08-200	\$1,995
	Dunham Drawtube Only	693-08-211	\$275.00
	Drawtube Plug Spindle	633-11-001	\$59.00
	Mac Double Solenoid Valve Only Collet Open / Collet Close	997-15-007	\$120.00
	Anti Rotation Bracket	693-01-001	\$39.00
	<b>Air Lubricator Assembly with bracket Fittings addtional.</b>	<b>697-11-003</b>	<b>\$95.00</b>
	<b>Dunham Collet closer Air Fittings</b> Air line 1/4" x 1/4" Lube line 5/32" x 1/8" NPT		<b>\$5.00/each</b>
	<b>Drawtube locking key Assembly</b>	<b>693-08-210</b>	<b>\$79.00</b>
 	<u><b>Dunham collet closer rebuilt kit, includes seals and bearings.</b></u>  <b>Dunham rebuild kit. Dunham bearings only. Dunham seal kit with drawtube seal .</b>	<b>693-09-103 693-08-202 693-09-102</b>	<b>\$225.00 \$170.00 \$65.00</b>

## Dunham collet closer breakdown for GT-75 and GT-JR



\* **Dunham rebuild and seal kits include the seals highlighted in yellow:**

BOM: AIR COLLET CLOSER OIL MIST OMNITURN			
Pos	Qty	Part Name	Part No.
1	1	KNURLED KNOB	D211-MC544
2	1	DISOGRIN SEAL	D211-006-044
3	1	DACCOM MAIN BEARING HOUSING	D211-MC542
4	1	DACCOM CYLINDER	D211-MC540
5	1	DACCOM PISTON	D211-MC541
6	1	DACCOM-NC MAIN BRG MNT OMNITURN	D211-MC543-F
* 7	1	O RING	D211-D-130
* 8	1	QUAD RING	D211-Q4353
* 9	1	O RING	D211-D-328
* 10	1	QUAD RING	D211-Q4345
* 11	1	DISOGRIN SEAL	D210-00602100A
12	2	SNAP RING	D210-5002-354
13	2	SNAP RING	D210-5102-196
14	8	SHCS 10-24x1	D900-10241-SHCS
15	2	AIR COLLET CLOSER BEARING	D210-D-55510ND
16	1	DRAWTUBE LOCK ASSEMBLY	D010-DLK-HD

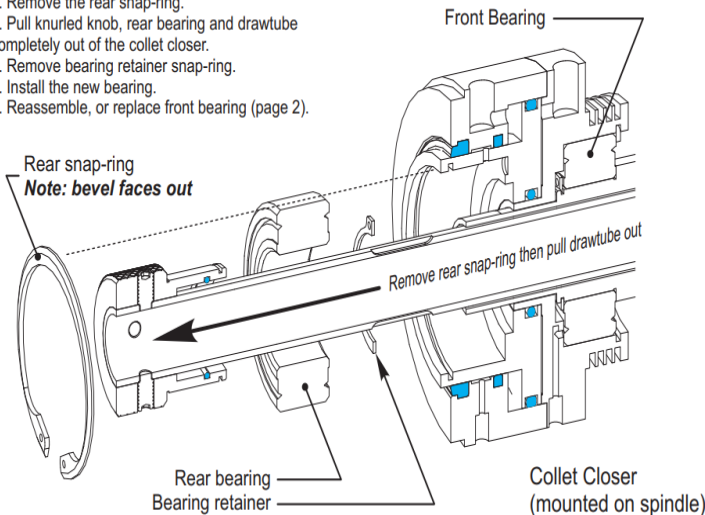
### Replace Dunham Collet Closer Bearings procedure:

To replace the bearings:  
(Do not remove collet closer from spindle)

#### **Rear Bearing**

1. Remove the collet.
2. Remove the rear snap-ring.
3. Pull knurled knob, rear bearing and drawtube completely out of the collet closer.
4. Remove bearing retainer snap-ring.
5. Install the new bearing.
6. Reassemble, or replace front bearing (page 2).

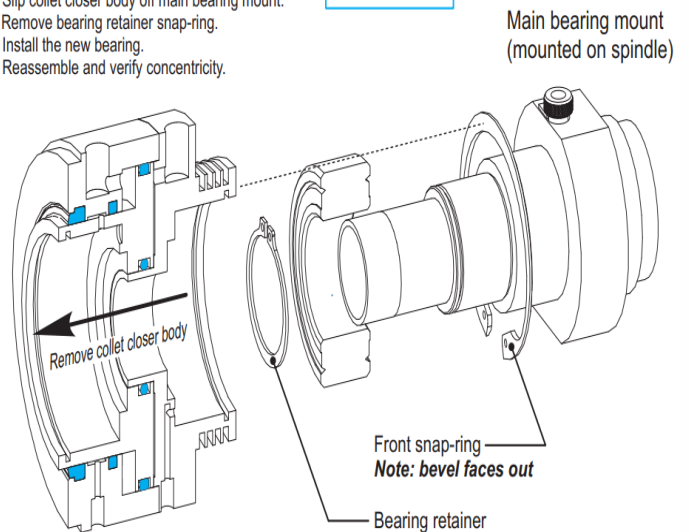
Seals & O-rings  
shown in blue



#### **Front bearing:**

7. Remove anti-rotation bracket.
8. Remove four air hoses (push-lock fittings).
9. Remove front snap-ring.
10. Slip collet closer body off main bearing mount.
11. Remove bearing retainer snap-ring.
12. Install the new bearing.
13. Reassemble and verify concentricity.

Seals & O-rings  
shown in blue





The World's Most Cost-Effective Turning Machines

## GT-75 Turning Center

**\$42,795**

**C-axis add \$3,300**



- Gang-Tooled slant bed
- 5hp spindle w/5C nose
- Air-actuated collet closer
- Flood-coolant system
- Spindle Positioning Option
- [Standard G- & M-Codes](#)

Gang-tooled for fastest tool changes.  
75° slant-bed lets chips fall away quickly.  
12" X-Axis travel; 9" Z-Axis travel.  
Highest quality ground ball-screws and linear guides for precision and reliability.  
Closed-loop servo system provides .0001" accuracy with .00005" resolution.  
5hp spindle (C-Axis positioning optional)  
4000rpm (5000 optional)  
Barfeed ready.

## Specifications:

### Capacities

Workholding ..... 5C Collet  
..... 4" Chuck Max (opt.)  
Max. Cutting Diameter ..... .6"  
Max. Bar Diameter ..... 1.06"  
Tooling Plate ..... 6" x 14" with 3/8" T-Slot

### Spindle

Max Speed ..... 4,000rpm (6000 opt.)  
Max Rating ..... .5 hp  
Spindle Nose ..... 5C w/4° camlock  
Drawtube Bore ..... 1.125"

### Construction

Ways ..... Precision Linear Guides  
Ball Screws . . Precision-ground Zero Backlash  
Base Billet ..... MJ7 Composite Casting  
Headstock ..... Mehanite  
Coolant Pump . . 1/8hp 5gpm (1/4hp 20gpm opt)

### Travels & Feedrates

X-Axis ..... 12"  
Z-Axis ..... 9"  
Resolution of Slide Travel ..... 0.00005"  
Repeatability of Slide Travel ..... 0.0001"  
Threading ..... 240tpi to unlimited  
Axes Thrust ..... 500lbs cont. 750lbs int.  
Max Rapid ..... 300ipm  
Max Cutting ..... 300ipm

### General

Machine Weight ..... 1,650lbs  
Air Required ..... 3 scfm @ 70 psi  
Electrical . 208 - 240 VAC, 1 or 3 phase @ 20A  
Floor Space ..... 34" x 66" (75" high)



## OmniTurn Zip Loader on GT-75

Fast  
Simple  
Compact  
Smart! **\$10,500**

Handles bars or parts 1-1/2 to 26 inches long; 1/8 to 1-1/16 diameter.

### It's a magazine bar loader!

Loads bar for machining and cutoff; pushes more bar for next part.  
At end of bar, Zip Loader ejects remnant and loads new bar.  
Tray holds up to 225 feet of barstock for hours of un-attended operation.

### It's a shaft loader!

Loads part for machining and closes collet or chuck.  
Then ejects finished part and gets next part.


# OmniTurn Automation

Automation has become an important tool to be used to survive in today's difficult market. The OmniTurn system has been designed with automation in mind.


Automation can be easy or a nightmare. There are so many issues that must to be taken into account or they can get out of hand if you don't have the prior experience.

- *Qualify length from a dimension off the part. This can be from the front*      - *Concentricity*      - *Chips*
- *Orientation*      - *Change over time for similar parts*      - *Part consistency*      - *Cost*      - *Cycle time*
- *Finished part unloading*      - *Work holding*      - *Fault resets and automation*      - *Vibratory bowl interface*
- *Documentation for operator use, setup, and troubleshooting*      - *Schematics and spare parts lists*


 <p><b>3 second Load/unload</b> Held on the OD, drilled 14 holes, bored the ID, Qualified the overall length</p>	 <p><b>6 second Load/unload</b> Held on the OD, Finished the radius on the face.</p>	 <p><b>3 second Load/unload</b> Held on the OD, Turn, Bore, Drill, Ramp Broach, Deburr.</p>	 <p><b>10 second Load/unload</b> One of a family of parts, load and unload without damaging finish 10 minute change over,</p>	 <p><b>8 second Load/unload</b> Thin sheet metal stamping. Work holding was an issue.</p>
 <p><b>6 second Load/unload</b> Very simple track loader. Simple to build and setup</p>	 <p><b>5 second Load/unload</b> Universal pick and place that can be changed over in minutes</p>	 <p><b>2.5 second Load/unload</b> Turn radius on end, cross drill Dedicated loader from bowl</p>	 <p><b>6 second Load/unload</b> Simple track loader, adjustable and universal</p>	 <p><b>6 second Load/unload</b> Unloaded carefully, no marks on finished face</p>
 <p><b>8 second Load/unload</b> End work on shafts, OmniZip with hopper holds 1000 parts.</p>	 <p><b>3 second Load/unload</b> Universal pick and place that can be changed over in minutes</p>	 <p><b>3.5 second Load/unload</b> On C axis machine, load off center, drill and tap one hole, drill other.</p>	 <p><b>4 second Load/unload</b> Loader for family of parts, fast load time, simple change overs.</p>	 <p><b>12 second Load/Load/Unload</b> Both sides of part was machined.</p>
 <p><b>Bar fed by OmniZip</b> Extruded stock loaded by rear end loader, 3 second cycle time per part</p>	 <p><b>6 second Load/unload</b> 5,000 part run, OD thread only. Built loader in 2 days for almost off the shelf delivery</p>	 <p><b>6.5 second Load/unload</b> Family of parts done with simple loader. Change over time is only 5 minutes.</p>	 <p><b>6 second Load/unload</b> Unloading was critical. They could not touch one another.</p>	 <p><b>8 second Load/Unload</b> Held on ID, turned entire OD. .0003" total all over.</p>



OmniTurn's versatile OmniZip loader. A great universal rear end loader as well as a fast short bar feeder. This is an off the shelf product for almost immediate delivery.



Custom built loaders to suit all needs. Speed, universality, reliability, simplicity. Let us quote on your automation needs.



Pick and place loaders are the simplest style we offer. An in feed track and pick up pin or cup on the tooling plate. There are many variations on this style of loader, give us a call.



**Visit our website to see most of these loaders in action.**

**[www.omni-turn.com](http://www.omni-turn.com)**

**Give us a call for help with automation. We can help you design a system that you will build, or OmniTurn can deliver a turnkey system**

### **High volume, dedicated application:**

First off, what do we mean by "High Volume"? We take it to mean any job that will run longer than 6 months without having to change the setup. Notice that we look at the length of the run, not the number of parts. Automation of this type should be considered to be replacing operator costs and increase production rates. The cost of implementing a dedicated loader usually takes the 6 months to offset an operator's salary and overhead charge. Loaders that will be dedicated to one job do not need to be convertible. This leaves us to play with speed and price. Dedicated loaders can be simple to design and implement since they are built around doing only one job. Usually load times are around the 3 seconds. However there are cases where we have been down around 1.2 seconds.

### **To "Bowl" or "not to Bowl"? Is this a question?**

Most customers assume that a bowl is required for long running production automation. OmniTurn wonders how often the bowl is really needed? We find in many applications having an operator once in a while feel an in feed track is more cost efficient. You could make argue that automation is implemented to remove operator intervention. However there are still reasons to keep an operator near the setup: Tool life, tolerance maintenance, part outflow safeguarding, chip removal, etc. While the operator is maintaining the other issues of the work cell, they could fill the in feed track. If the track holds at 30 minutes of parts, it still frees the operator for other duties and still load a number of automated OmniTurns. After a job has been up and running for a while it is a better time to determine if the purchase of a bowl is justified. If your automation is designed to work with a bowl, then the addition of it at a later date is simple!

### **Similar part automation:**

There are many instances where part family production is critical to making a product economically. Here we have a case where automation will be needed for a long time, but must be convertible enough to handle variations in the blank part. This could be variations in lengths, diameters, shapes, etc. If the parts all maintain some basic characteristics it is possible to build automation that can be changed over quickly. Here the 3rd item to be left out could be either the speed or price. In some cases we can build systems that are convertible and fast at a higher price. Or one that is convertible and less expensive but not as fast. The defining issue is usually the lot size and how often the loader will have to be changed over.

Here the issues are usually price and delivery. Many jobs will have to be in production and running within a week or two. So speed of getting the loader up and running is important. The other issue is price. In many cases the job will only be on the shop floor for a few weeks or less. This does not warrant spending thousands and taking weeks of a tool maker's time. Here OmniTurn has come up with simple loader ideas and implemented them many times over the years very successfully. With the simple type we are happy to help you build your own, or build a turnkey for you. The most important thought to remember that there is such a thing as SIMPLE automation. A few hours of tinkering can save hundreds of hours of operator's costs.



Pick and place for delicate parts



Simple track loader with in feed bin



High volume production - FAST



Very simple table mounted system



## NEW OMNIZIP AUTOMATIC REAR END LOADER AND FEEDER

**OmniZip: \$10,500**

Here is a universal answer for all types of part and bar feed rear end loading. The new line of OmniTurn Zip loaders has been designed around what end users have been asking for. **It is fast!** If you are loading parts for secondary operations its cycle time is under 5 seconds - part to part. **Versatile:** will load and cycle bars up to 24" long. **Smart:** Is programmable to act as a smart dead stop. The slide will repeat to within  $\pm .0015$ ". **Large Capacity:** up to 400 1/2" diameter blanks per loading. If you have a 30 second machine time, that turns into almost 4 hours of unattended run time.



Visit  
[www.omni-turn.com](http://www.omni-turn.com)  
for video of the OmniZip  
in action

**Repeatability: .0015"**  
**Programmable from keypad**  
**2" to 24" part lengths**  
**1/4" to 1" diameter**  
**Fast cycle time: 5 seconds**  
**Compact size: 28" x 71"**  
**Made in America**



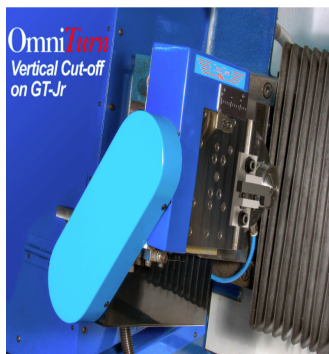
**ZipLoader & GT-75**

### VERTICAL CUT OFF

**\$6,000.00**

For existing machine  
in field add **\$450.00**

The vertical cutoff system is now easier to use. The M functions include variables for constant surface feet spindle control, grooving functions and cutoff functions. The setup is also easier than before. The front panel has a jog switch with the same functionality as the X and Z axis.



### TAILSTOCK FOR GT'S

This headstock mounted tailstock is great for special applications where the part must be supported while being machined.



- Tailstock activation can be pneumatic or manual lead screw driven
- The tailstock clears the tooling plate.
- Tailstock stroke: 2" max
- The tailstock can be mounted at any point in Z so you can make the most of the 2" of travel.

Contact your factory representative for details and application assistance.

Price.....\$5,900 Built to order 8-10 week delivery

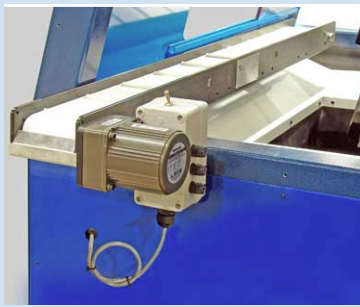
### PART CONVEYORS FOR GT-75 AND GT-JR'S

Why fight to separate your parts from chips and coolant? Install a part conveyor to do most of the work for you. The new conveyor option will take the parts outside the working area. Installed as shown below the parts can be dropped into a bucket or table on the right side of the machine. Discharging to the left can also be done by the end user.

Standard installations do not include an M function control. Turn the conveyor on, let it run all day.

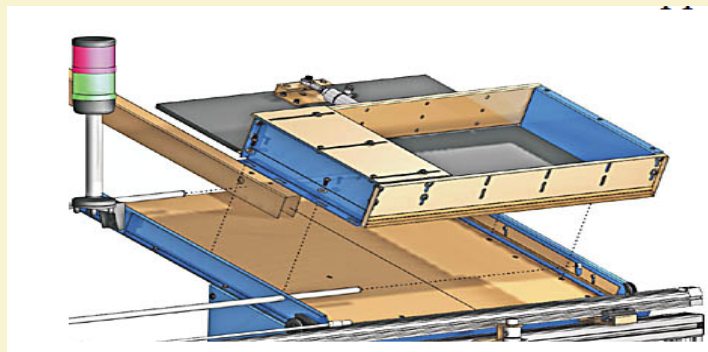
The conveyors are normally installed in front of the working area. Under the cutoff tool or in front of a spring loaded collet a baffle can be setup to direct the finished part onto the conveyor. This part of the setup is left to the end user.

Factory installed - new machines \$2,750



### Parts Hopper for Zip Loader \$1,500

The hopper allows small diameter parts (1/8" - 1/2") to be loaded in quantity in a 3-1/2"h x 11-3/4" x 24-1/8"w box. The length of the part can be from approximately 2 inches, to 24 inches. The parts are then presented to the top of the knife in the ZipLoader, and loaded into the rear of the spindle for machining.





## UPGRADE TODAY!!

### FLOPPY TO USB CONVERTER

THE KIT GOES DIRECTLY WHERE THE FLOPPY DRIVE USED TO BE. SO NO MODIFICATION TO THE MACHINE IS NEEDED. THIS WILL ENABLE THE CONTROL TO USE A THUMB DRIVE INSTEAD OF A FLOPPY DISK. THIS KIT CAN BE INSTALLED BY THE END USER IN A FEW MINUTES. NO SOFTWARE UPDATES ARE NEEDED TO THE CONTROL. THE KIT INCLUDES A THUMB DRIVE THAT HAS BEEN PROPERLY FORMATTED.

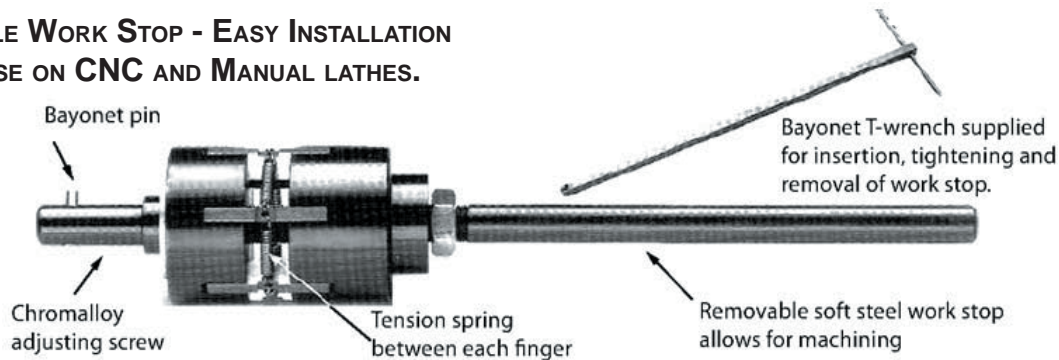


**\$195.00**



GET YOURS TODAY AND STOP FUMBLING WITH FLOPPY DISKS!

## SPINDLE WORK STOP - EASY INSTALLATION FOR USE ON CNC AND MANUAL LATHES.

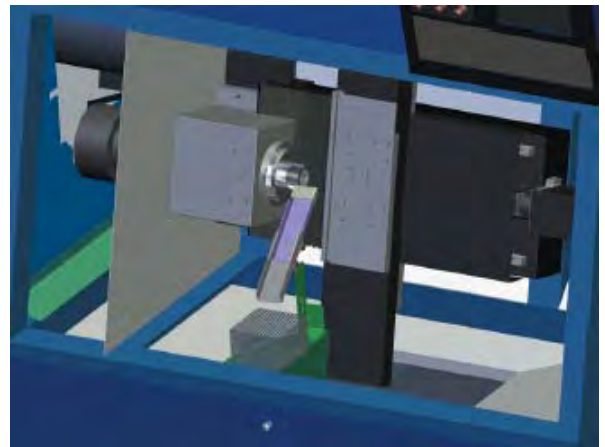
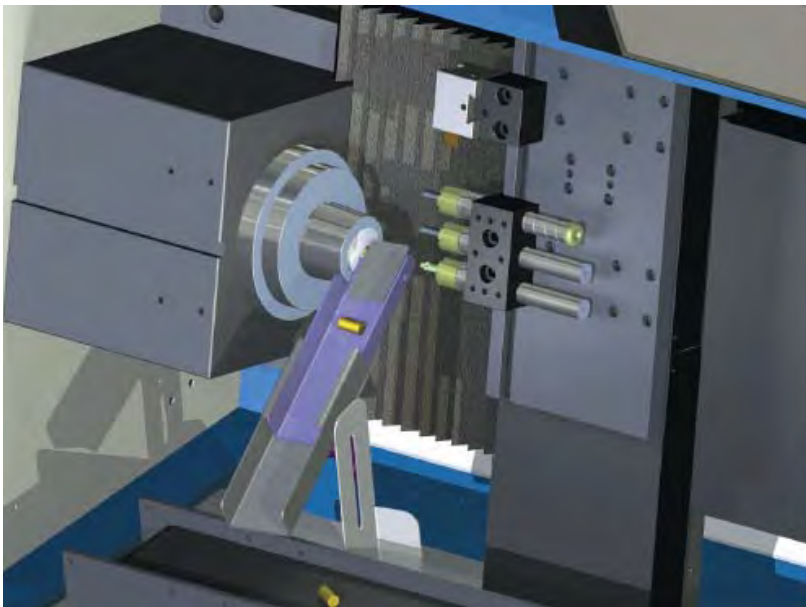


Range 1" - 1 1/8"

THE SPINDLE WORK STOP IS AN EXPANDING TOOL THAT FITS INTO A LATHE SPINDLE OR DRAW TUBE FOR QUICK SETUP WHEN ACCURACY OR CONSISTENCY OF LINEAR DIMENSIONS IS NECESSARY.

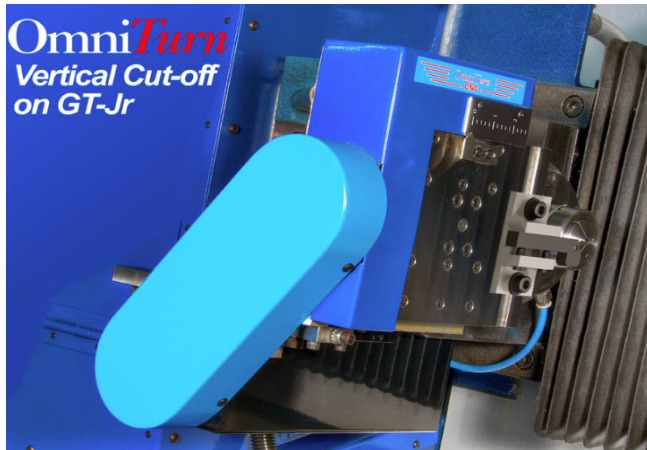
INSERT WORK STOP INTO REAR OF SPINDLE OR DRAW TUBE. EXPAND FINGERS UNTIL THEY TOUCH SPINDLE; THEN BACK OFF SCREW QUARTER TURN. USING T WRENCH, SLIDE WORK STOP INTO SPINDLE UNTIL IT CONTACTS WITH WORK PIECE. TIGHTEN WORK STOP AND REMOVE WRENCH. ....\$295.00

## SHOOT TYPE PARTS CATCHER



FINALLY, A RETRACTABLE PARTS CATCHER THAT WORKS WELL WITH BARFEED CUTOFF PARTS AND AUTOMATIC LOADERS. INSTALLS ON ALL GT-75's & GT-Jr's IN THE FIELD. PNEUMATIC OPERATED. CAN BE USED WITH EITHER A PARTS CONVEYOR (LEFT) OR CATCH BASKET (ABOVE)..... **\$950**

## Vertical Cut-off (VCO) \$6,000



Vertical Cut-off provides quick part-off without using space on the table. Servo-control allows simultaneous part-off to start while turning; can also be used for grooving.

- Frees up space on tooling plate
- Servo controlled for accuracy
- Programable for feed and depth
- Can be used for grooving
- Cut groove while turning or facing
- Start cut-off while turning or facing
- Part-off into tool-plate mounted diverter

## Richlin Machinery, Inc.



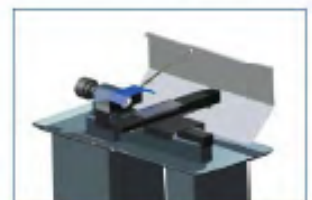
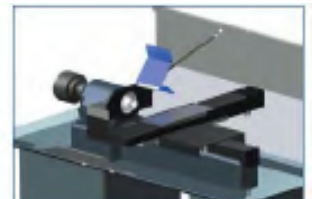
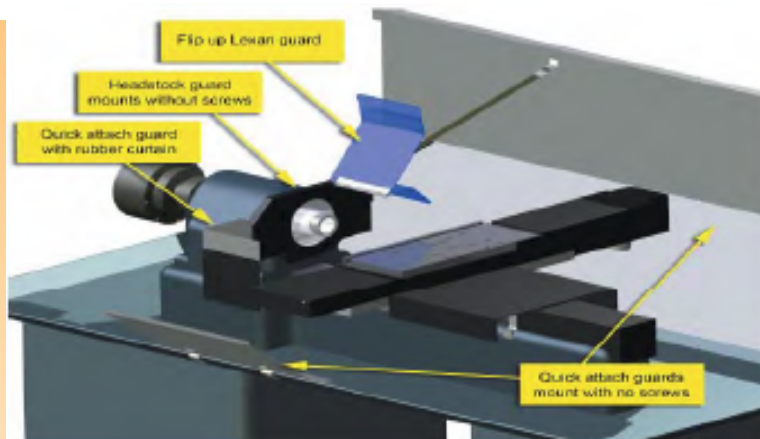
### Manufacturing Automation, System Integration, Engineering Solutions

We are full-service- from concept to fabrication, to installation, training and service. Richlin Co. is your comprehensive manufacturing automation resource.

We focus on making things work dependably, practically and profitably. The unusual and so-called "impossible" challenges are what really get us excited! Inventive, clever and elegant solutions to your challenges are our stock in trade. And because we are entrepreneurs ourselves, we are always thinking about your competitive advantage.

### SPLASH GUARD FOR ATTACHMENTS

.....  
\$995.00





**Mounting feet for GT-75 and GT-Jr**

Feet - 4 per set  
**691-13-001** \$89.00  
 Feet with vibration pads - 4 per set  
**691-13-001-vibration** \$98.00

**Air Lubricator Assembly  
For Collet closer**

**697-11-003** \$95.00

**Computer power supply  
[G2 & G3 CONTROLS]**

**995-16-009** \$89.00

**Work lamp kit (INCLUDES BRACKETS)****LED**

Work lamp kit for GT-75  
**491-09-002** \$169.00

**Collet close confirmation  
pneumatic switch kit**

**697-09-100** \$89.00

**Encoder Cable**

**995-07-003** \$95.00

**Dunham Collet closer draw tube only  
for GT-75 and GT-Jr**

**693-08-211** \$275.00

**Main Filter / Regulator  
with Gauge**

**997-11-101** \$89.00

**Coolant pumps**

Standard 1/8 hp pump only  
**696-16-001** \$325.00

1/8HP Mounting Bracket  
**696-01-001** \$39.00  
 1/4 hp pump with mounting  
 flange **696-16-001HD**  
 \$575.00

**The Splash Guard System that is as easy to  
install and use as the OmniTurn!**

Headstock Only Guard Kit \$295.00  
 Replacement Lexan Guards \$69.00  
 Complete Set-up \$995.00

**Ballscrews for all OmniTurn machines.**

Note: The screw must be cut to length for installation.



Ballscrew  
**992-08-011** \$1,195.00  
 Ballscrew & thrust bearing  
**992-08-002** \$1,455.00

**Thrust bearing assembly**

**992-08-003** \$259.00



**Linear way assembly** includes 2 bearing block  
 trucks. 2 assemblies needed per axis

X axis 10" travel - 18" long (460 mm) or  
 Z axis 8" travel - 18" long (460 mm)  
**992-08-004** \$475.00  
 X axis 12" travel - 21" long (520 mm)  
**992-08-005** \$495.00  
 Z axis 5" travel - 10" long (280mm)  
**392-08-001 [Cut to size]** \$475.00  
 Bearing block trucks only - 2 per set  
**992-08-012** \$295.00

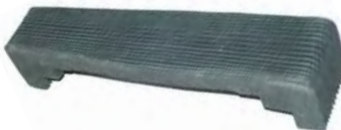
**Motor Coupling**

**992-11-002** \$85.00



**X-Axis Brake Piston**  
**697-27-001 - \$110.00**

**Brake Bumper -**  
**\$12.00**

**Bellows cover - GT-75 and GT-Jr**

**692-11-001** \$235.00

**Z axis way cover - Attachments**

**392-11-002**  
 5" or 8" travel [Cut to fit] \$30.00

**Axis scales**

**992-04-002** Z axis scale \$25.00  
**992-04-001** X axis scale \$25.00

**Spindle bearings for:**

OmniTurn GT-75  
 OmniTurn GT-Jr  
 Hardinge HSL, DSM, DV-59  
 HLV, DSMA, ASM



**693-08-106 set of two** \$495.00  
**693-08-105 - Nilos Seal** \$98.00  
 Hardinge HC, AHC, HNC  
**693-08-107 set of two** \$795.00

Grease for spindle bearings  
**004026-221** \$39.50

**Spindle encoder for all machines**

**Encoder**  
**995-16-005** \$645.00

**Encoder belts**

Encoder belt - GT-75 (MX315)  
 All attachments except HLV  
**993-21-001** \$25.00  
 Encoder belt - GT-JR (MX280)  
**593-21-001** \$25.00  
**093-21-001** HLV or HLV-H \$25.00

**Encoder pulley - encoder side  
Aluminum**

**995-22-001 (aluminum type)** \$110.00

**Encoder pulley - Spindle side**

**GT-75 & GT-Jr 693-22-001 ID=2.737"** \$110.00  
**DSM, DV 193-22-001 ID=2.375"** \$110.00  
**HSL 193-22-001 ID=2.375"** \$110.00  
**HC,AHC,HNC 293-22-001 ID=1.875"** \$110.00

**Axis motors** - All OmniTurn  
 systems use the same  
 X and Z axis motor.



**995-16-100 - 1 year warranty** \$1,395.00

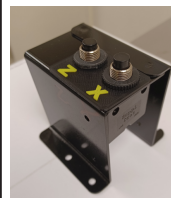
**OmniTurn Axis Amplifier**

Both X and Z use the same amp



**995-16-007** \$585.00

Core charge of \$100 will be charged  
 and credited back when the old amp is returned.

**Axis motor thermal overload**

**Thermal overload  
 replacement Switch  
 assembly for both X and Z  
 axis. \$159.00**



**Thermal Overload Element  
 only - W43 \$29.00**



## Spindle drive belts

### Spindle drive belt GT-75 / GT-Jr

PolyV 310J10 633-21-001 \$36.00  
PolyV 290J10 633-21-002 \$36.00  
PolyV 360J10 633-21-004 \$36.00

### Spindle drive belt C axis cog type

663-21-001 (for GT-75 & GT-Jr) \$39.00  
300H100

### Spindle drive belt - C axis - Herringbone type

693-21-001 \$89.00

## LCD Upgrade from CRT Monitor

### Omnivision

No longer in stock.

## Replacement LCD Monitor

995-16-019 G3 AND G4  
\$430.00

## Motherboard for G2 & G3

**NO LONGER AVAILABLE**

995-17-010

## MC2 motion control card - 995-17-003

Exchange - 90 day warranty \$1,150.00

## MC2B CARD - 995-17-004

## Keyboard G3 CNC

995-16-001 \$225

## 12V relay

Relay 999-15-005 \$25.00  
Socket for relay - 999-15-006 \$15.00

## Dunham collet closer rebuild kit, includes seals and bearings

Dunham rebuild kit 693-09-103 \$225.00  
Dunham bearings only 693-08-202 \$170.00

Dunham seal kit with drawtube seal 693-09-102 \$65.00

Retaining Ring Pliers \$39.00

## Control push buttons and switches:

Change to an LED bulb for longer life and less down time for an additional \$4.00

### Power on button assembly

Yellow, illuminated, maintained 995-12-101 \$39.00

### Servo On button assembly

Blue, illuminated, momentary 995-12-102 \$39.00

### Cycle start / on indicator assembly

Green, illuminated, momentary 995-12-106 \$39.00

### Motion stop button assembly

Red, illuminated, momentary 995-12-105 \$39.00

### Spindle drive Auto/Off switch

Black, 2 pos. selector, maintained 995-12-104 \$39.00

### Spindle speed override

dial assembly  
Speed potentiometer \$26.00

### Jog switch assembly

995-12-107 \$148.00

### Emergency stop push button

Red, push to lock, twist release 995-12-103 \$39.00

## Operator station complete with cable

998-00-000 \$450.00

## Palm box push buttons

### Collet close push button assembly

Red, momentary 998-12-101 \$25.00

### Collet open push button assembly

green, momentary 998-12-102 \$25.00

### Cycle start palm button assembly

Black, momentary 998-12-103 \$47.00

### Emergency stop push button

Red, maintained, twist to unlock 998-12-104 \$39.00

## Grease gun and grease

Grease Gun \$59.00  
Grease only \$19.00

## Hard Drive

995-09-003  
\$125.00

## USB Portable External Floppy Drive Disk Laptop Desktop

\$29.50

## Internal Floppy Drive Disk

No longer available

## Spindle drive inverters: \$795.00

914-16-004 GT-75/GT-Jr 5hp  
924-16-001 Attachment 5hp

## Spindle Nose Cover

693-01-003 \$98.00

## Pins, sockets, cable jacket and plugs

Pins: \$.95 PolyTuff Jacket: \$2.50/foot

Sockets: \$.95 14 pin male connector: \$9.00

Pin Extractor: \$39

PolyTuff fitting: \$19 14 pin female connector: \$7.50

## Braking resistors

5HP  
914-15-001 \$245.00

## Mac single solenoid - no

manifold 997-15-008 - \$95

## Mac single solenoid - with manifold

997-15-204 - \$120

## Mac double solenoid - no

manifold 997-15-007 - \$120

## Mac double solenoid - with

manifold 997-15-203 - \$139

## Fittings

Flow Control - 1/8 NPT - \$10  
Push on Fittings 1/8 NPT - \$5  
Push on Fittings 1/4 NPT - \$5  
Plugs 1/8 or 1/4 NPT \$3



Chip bin  
with perforated  
bottom  
696-11-003  
\$159.00



Chip bin  
filter  
\$10.00



Spindle  
nose  
cover  
693-01-003  
\$98.00



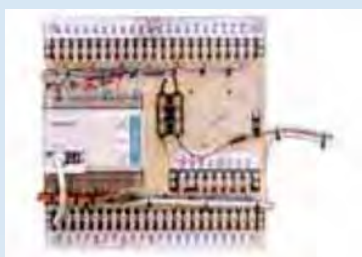
Collet closer  
Regulator  
997-11-002  
\$69.00



12VDC RELAY  
999-15-005  
\$25.00



Servo  
motor  
thermal  
overload  
995-15-015  
\$25.00



PLC kit  
16-Inputs  
14-outputs  
999-39-103  
\$1,095.00

## DIRECT DRIVES FOR ATTACHMENTS

Over the last 10 years OmniTurn has helped automate more than a few Hardinge lathes. We have been advocating the addition of both 2 and 5hp variable speed drives. These systems have proven that they are reliable and up to the task of supporting the requirements placed on them. However as time has gone on we have found ways to improve the systems. With most retrofits, the spindle drive includes a vari-shiv drive belt for speed adjustment and a clutch/brake assembly. These two items add components that slow down and diminish the system's overall performance.

The vari-shiv belt system takes much more power to drive than a standard belt system.

- The pulleys are 5 times larger than a standard belt pulley. The inertia added by these pulleys is significant in hindering the stopping and starting of the spindle.
- The belts for the vari-shiv are very thick and require significant additional power to drive.
- The vari-shiv system adds an intermediate shaft with second belt. More belt issues, additional bearings, and a shaft the shiv rides on that wears out causing vibration and noise.

- The clutch/brake assembly also add additional mass and inertia problems. There is also the issue of additional bearings and drive shafts included in the system when they are not really needed.

OmniTurn has come up with a system where the intermediate shivs, belts, and drives are no longer needed. You can remove all the heavy belts and pulley and replace them with a single belt and simple, smaller pulleys. The systems run much smoother, quieter, and with much less inertia. Older 2 hp systems that had problems shutting down while running shorter cycles are given a new life with these direct drive system. The new belt and pulleys take only 2-3 hours to install.

### Parts only -

Modify customers spindle pulley

Motor Pulley, belt, and motor bushing.....\$1,250.00



Note: The old spindle drive pulley must be returned to OmniTurn. The price is based on a pulley exchange.



## NEW OMNITURN G4 CNC CONTROL

### WITH CORE EXCHANGE








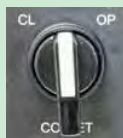


1 Year Warranty from Ship Date

The OmniTurn G4 CNC Control incorporates the latest in PC CNC control technology.

This CNC utilizes the best features gained since our first PC based CNC control was introduced in 1987. The parts count in the control is reduced considerably, as well as the number of electrical connections, resulting in better reliability.

- Up to 5 axes of motion can be controlled simultaneously.
- OmniTurn lathes with "C" axis spindle can be programmed simultaneously with X and Z axis.
- Now you can save and transfer programs using a standard USB memory stick.
- ENABLES ADDITION of Vertical cut off
- Y axis on tooling plate

### G4 CONTROL REPLACEMENT PARTS

	<b>5AXMC CARD</b> 995-49-011 <b>\$895</b> with exchange 90 day warranty		<b>MOTHERBOARD</b> 995-17-015 <b>\$595</b> (with exchange)
	<b>POWER SUPPLY</b> 995-16-020 <b>\$98</b> <b>G4 CONTROLS</b>		<b>AXIS AMP X and Z axis</b> 995-16-007 <b>\$585</b> with exchange. <b>ALL CONTROLS</b>
	<b>WORK LAMP KIT</b> <b>(INCLUDES BRACKETS)</b> <b>LED</b> 491-09-002 <b>\$169</b>		<b>DIRECT MOUNT ENCODER 5HP</b> <b>1/4" SHAFT - 995-16-105 - \$350</b>  <b>DIRECT MOUNT ENCODER 5HP</b> <b>3/8" SHAFT - 995-16-103 - POR</b>
	<b>Control On/Off</b> <b>Switch Assembly</b> 995-12-201 <b>\$40</b>		<b>Collet Open/Close Assembly</b> 995-12-202 <b>\$40</b> <b>C-Axis Jog Switch Assembly</b> 995-12-202 <b>\$40</b>
	<b>USB keyboard</b> <b>[For G4 CNC ONLY]</b> 995-16-025 <b>\$225.00</b>		<b>Replacement LCD Monitor</b> <b>for G4 controls.</b> 995-16-019 <b>\$430.00</b>



# OmniMate

## Automation for the Job Shop

THE OMNIMATE IS THE FIRST UNIVERSAL  
LOADER FOR ALL TYPES OF  
MACHINING FACILITIES

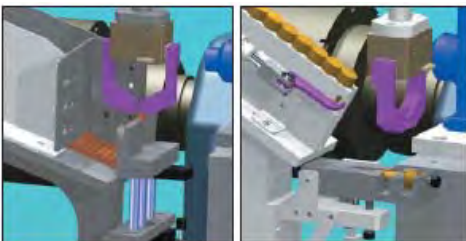
SCREW MACHINE SHOPS  
PLASTIC INJECTION SHOPS  
STAMPING HOUSES  
GRINDING SHOPS

THE OMNIMATE IS THE FIRST  
OFF-THE-SHELF UNIVERSAL  
LOADER FOR ALL TYPES OF MACHINES

LATHES - GRINDERS - MILLS -  
GEARS - TRANSFERS - MARKING -  
INSPECTION - WELDING -  
ASSEMBLY

### OFF-THE-SHELF INFEED SYSTEMS

- Rocker nest for parts that can hang by a head
- Add a bowl feed for extended runs
- Vertical escapement for parts that will roll
- Optional hopper to extend running time to many hours of unattended machining
- Pallet mounts for parts that are not symmetrical



VERTICAL NEST

ROCKER NEST

Infeed track for parts that roll

The rolling parts infeed track and escapement are easily adjustable for diameters from 1/8" to 1" and lengths from 3/4" to 4". Slide the track in place, change the nest, plug it in, select your program. The OmniMate can also turn the part around for operation on both sides.



Infeed track for parts that hang on a head

The hanging parts infeed track and escapement can easily accommodate part diameters from 1/8" to 1" and lengths from 3/4" to 4". Slide the assembly into place, change the nest, plug it in, select your program, then start machining.



Pallets for parts that can't be track fed

Many parts cannot be fed by a track. They have special orientation, finish issues, or are just not in a shape that can be moved down a track. Pallets are the answer. The OmniMate can also re-orient a part for a second operation.



Safety light curtain

The OmniMate is FAST. So we offer a safety system that takes only minutes to assemble and install. The light curtains use very little shop space and give complete access to the robot and machine. The curtain is integrated with the OmniMate and machine controls. If the curtain is breached, the system stops.



## DAN'S TIPS

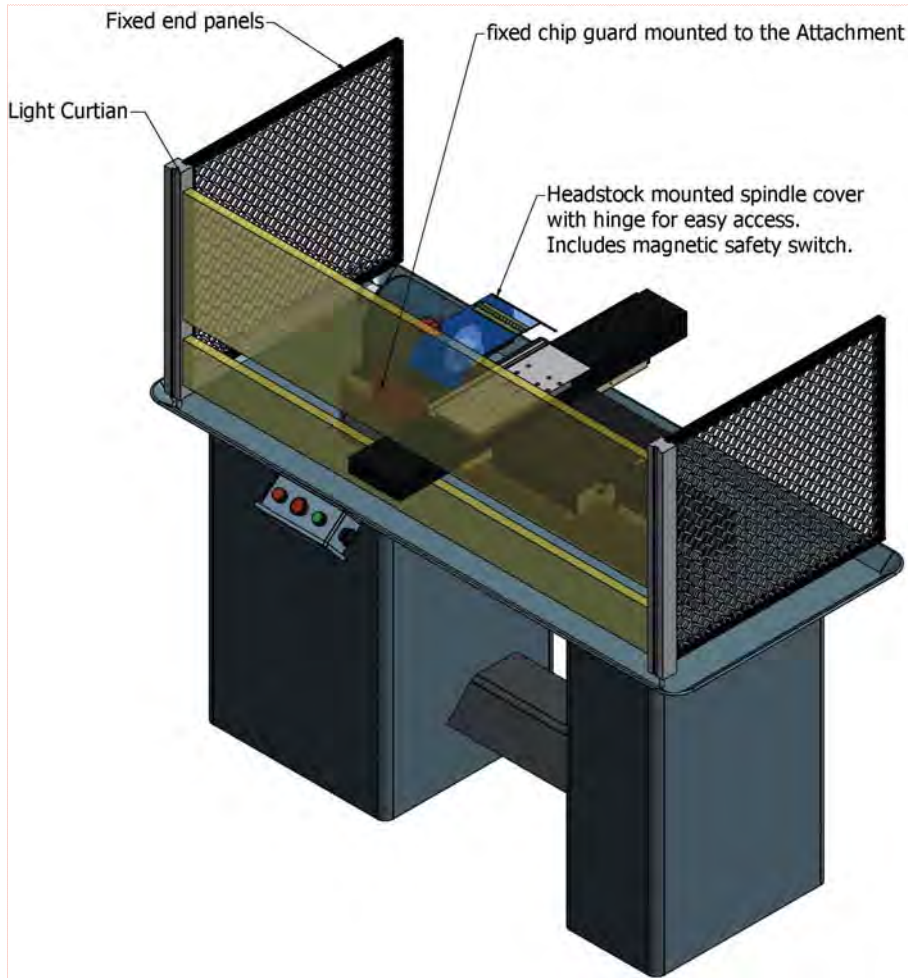
Periodically check your spindle belts as well as your encoder belts for cracks, this could be evidence of your belt failing soon. It's a good idea to keep several of these belts in stock so there will be no down time when you're running that big job.

Check our web site, [omni-turn.com](http://omni-turn.com) for information on diagnosing and repairing your Omniturn machine.

Contact Dan - (631) 694-9400 for all your tooling and parts questions.



## Light Curtain OmniTurn Attachment System



### Includes:

- (1) set of 537mm x 30mm light curtain
- (2) end panels with mounting hardware
- (1) fixed chip guard to be mounted to Attachment
- (1) Headstock spindle cover with hinged cover
- (1) Magnetic Safety switch on hinged cover
- Interface to OmniTurn control
- Keyed bypass switch for setup and service

**Price: On request**

Installation: 4 hours per unit



**WIT (WHATEVER IT TAKES)**



# OmniTurn

## East Coast Sales Headquarters

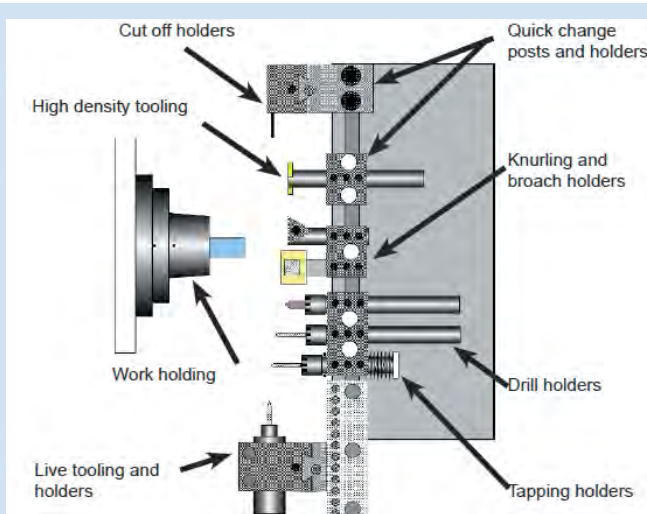
97 Sherwood Ave.

Farmingdale, NY 11735

Tel: (631) 694-9400 | Fax: (631) 694-9415

ISSUE:

**January 2024**



## Get the most out of your OmniTurn

Tooling a CNC gang tool lathe differs greatly from turret type lathes. Most tool holders available for other types of lathes do work well with the gang type. The tooling and holders have been selected after years of experience with tooling gang style lathes. They take best advantage of the lathes ability to be changed over and requirement that the tooling must be compact.



### OmniTurn GT-75

2 and 3 axis lathes for production bar work and secondaries



Attachments and retrofits for Hardinge\* and Hardinge type machines