Richlin Machinery
97 Sherwood Ave. Farmingdale NY 11735 | Phone (631) 694-9400

Email: sales@omni-turn.com | Web site: www.omni-turn.com

Prices are subject to change without notice.

We at Richlin Machinery represent many manufacturers:

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

GT-75
CNC Lathes

* $39,795 COMPLETE
(When paid in full at time of order)

Fast..Precise..Affordable

UNIVERSAL ROBOT
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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.

**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.

Tooling Layout Assistance is available - in most cases for FREE!
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!
**TALL TOOL POST**

- The face of the post has 5 tapped holes for the height adjustment screw. 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.

**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” 3/8-16” Bolts not included $145.00

**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.

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

(631) 694-9400   www.omni-turn.com   Fax (631) 694-9415
TF-625 Ext.
Allows for adjustment so a larger tool can be used and still be on center.
TF-625 Ext.....$159.00

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.

Now holds 3/4” tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni TF625</td>
<td>$149.00</td>
</tr>
<tr>
<td>Omni L type Right</td>
<td>$149.00</td>
</tr>
<tr>
<td>Omni L type Left</td>
<td>$149.00</td>
</tr>
</tbody>
</table>

Tool Post Extensions

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

Offset Post W adapter $195.00
Offset Post Assembly Rail $195.00

TF-625 Ext.
**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.

### 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 - heavy duty
- 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

### 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 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

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**Live In-Line 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

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**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**

<table>
<thead>
<tr>
<th>MM</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1”/30</td>
<td>$95.00</td>
</tr>
<tr>
<td>1.032”/30</td>
<td>$95.00</td>
</tr>
<tr>
<td>.9”/30</td>
<td>$95.00</td>
</tr>
<tr>
<td>.91”/30</td>
<td>$95.00</td>
</tr>
<tr>
<td>3/4” /30</td>
<td>$95.00</td>
</tr>
<tr>
<td>1”/40</td>
<td>$140.00</td>
</tr>
<tr>
<td>1.032”/40</td>
<td>$140.00</td>
</tr>
<tr>
<td>.9”/40</td>
<td>$140.00</td>
</tr>
<tr>
<td>.91”/40</td>
<td>$140.00</td>
</tr>
<tr>
<td>25/30</td>
<td>$140.00</td>
</tr>
</tbody>
</table>

**LARGE Omni-Live Tool Holders**

5-30 - 30mm bore $170.00
5-36 - 36mm bore $180.00
5-40 - 40mm bore $196.00

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 $165.00
for NSK Astro System .900

Omni 591 - 1/2” center height $165.00
for NSK Astro Series .910

Uses T nut style: (2) TNUT-1

**SPECIAL ORDER**

We can design any holder per your specifications.

**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

**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”**

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
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<tbody>
<tr>
<td>.187”</td>
<td>$89.00</td>
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<tr>
<td>.250”</td>
<td>$62.00</td>
</tr>
<tr>
<td>.312”</td>
<td>$62.00</td>
</tr>
<tr>
<td>.375”</td>
<td>$62.00</td>
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<tr>
<td>.437”</td>
<td>$62.00</td>
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<tr>
<td>.500”</td>
<td>$62.00</td>
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<tr>
<td>.562”</td>
<td>$62.00</td>
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<td>.625”</td>
<td>$62.00</td>
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<tr>
<td>.687”</td>
<td>$62.00</td>
</tr>
<tr>
<td>.750”</td>
<td>$62.00</td>
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</tbody>
</table>

Metric sizes available call for sizes.

**Straight Tooth Knurls**

$18.80 ea HSS $23.55 ea Cobalt

<table>
<thead>
<tr>
<th>TPI / TEETH</th>
<th>TPI / TEETH</th>
<th>TPI / TEETH</th>
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<tbody>
<tr>
<td>8, 19 (90°)</td>
<td>20, 23 (90°)</td>
<td>12, 28 (90°)</td>
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<tr>
<td>16, 38 (90°)</td>
<td>20, 47 (90°)</td>
<td>21, 59 (90°)</td>
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<tr>
<td>30, 71 (90°)</td>
<td>33, 77 (90°)</td>
<td>35, 82 (90°)</td>
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<tr>
<td>35, 82 (70°)</td>
<td>50, 117 (70°)</td>
<td>60, 141 (70°)</td>
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<tr>
<td>40, 189 (70°)</td>
<td>50, 102 (70°)</td>
<td>80, 163 (70°)</td>
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$21.80 ea HSS $23.55 ea Cobalt

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<td>8, 16 (90°)</td>
<td>10, 20 (90°)</td>
</tr>
<tr>
<td>16, 33 (90°)</td>
<td>20, 41 (90°)</td>
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<tr>
<td>30, 61 (90°)</td>
<td>33, 77 (90°)</td>
</tr>
<tr>
<td>50,102 (70°)</td>
<td>80,163 (70°)</td>
</tr>
</tbody>
</table>

$27.00 ea HSS $32.95 ea Cobalt

<table>
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<tr>
<td>12, 25 (90°)</td>
<td>16, 33 (90°)</td>
</tr>
<tr>
<td>30, 61 (90°)</td>
<td>40, 81 (90°)</td>
</tr>
<tr>
<td>80,163 (70°)</td>
<td>80,163 (70°)</td>
</tr>
</tbody>
</table>
OMNI TURN OTC-16 FLOATING TAP HOLDER

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.

• 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

Self Releasing Tap Holder

Bushings for Tap Holders

<table>
<thead>
<tr>
<th>Tap Size</th>
<th>Shank Size</th>
<th>Price</th>
</tr>
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<tbody>
<tr>
<td>#0 thru #6</td>
<td>0.141</td>
<td>$59.50</td>
</tr>
<tr>
<td>#7-#8 - 5/32</td>
<td>0.168</td>
<td>$59.50</td>
</tr>
<tr>
<td>#9-#10 - 3/16</td>
<td>0.194</td>
<td>$59.50</td>
</tr>
<tr>
<td>#12 - 7/32</td>
<td>0.220</td>
<td>$59.50</td>
</tr>
<tr>
<td>#14 - 1/4</td>
<td>0.255</td>
<td>$59.50</td>
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<tr>
<td>9/32</td>
<td>0.286</td>
<td>$41.50</td>
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<tr>
<td>5/16</td>
<td>0.318</td>
<td>$41.50</td>
</tr>
<tr>
<td>1/2</td>
<td>0.349</td>
<td>$41.50</td>
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<tr>
<td>3/8</td>
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<tr>
<td>13/32-7/16</td>
<td>0.323</td>
<td>$45.00</td>
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</tbody>
</table>

OE10 TAP COLLETS

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

<table>
<thead>
<tr>
<th>Part #</th>
<th>Tap Capacity</th>
<th>D1</th>
<th>L2</th>
<th>L1</th>
<th>L</th>
<th>D</th>
<th>T</th>
<th>C</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>ER11 Axial</td>
<td>#3-1/4&quot;</td>
<td>5/8</td>
<td>6.00</td>
<td>.75</td>
<td>.63</td>
<td>.24</td>
<td>.12</td>
<td></td>
<td>$349</td>
</tr>
<tr>
<td>ER16 Axial</td>
<td>#6-3/8&quot;</td>
<td>3/4</td>
<td>3.15</td>
<td>1.61</td>
<td>.95</td>
<td>1.10</td>
<td>.32</td>
<td>.12</td>
<td>$389</td>
</tr>
</tbody>
</table>

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.

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

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.

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

(631) 694-9400 www.omni-turn.com Fax (631) 694-9415
NEW AND IMPROVED multibar is made with more material in the pocket area for better holding power of the insert.

OMNI TURN’S MULTI BAR TURNING SYSTEM

THE OMNI TURN MULTI BAR HOLDER AND INSERTS WERE SPECIALLY DESIGNED FOR SMALL PRECISION TURNING ON GANG TOOL LATHES.

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 types 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.

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

OMNI TURN’S MULTI BAR

$149.00

PROFILING INSERT - 6MM

VFTR-6M050 - $29.95/each
.030 RAD - C-2 uncoated
.020 RAD - C-2 uncoated
.010 RAD - C-2 uncoated

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All inserts available in uncoated. Please call for availability.
MULTIBAR STARTER KIT
(1) MultiBar  PN S10DSVFN6M2X
(1) Front turn  VFTR-6M040
(1) 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  $360.00
Includes bar, torx wrench and screw

FULL RADIUS
INSERTS

Insert # Width Depth Radius Price
VFRR-6M010 .010 .030 .005 $24.50
VFRR-6M015 .015 .040 .007 $24.00
VFRR-6M020 .020 .050 .010 $24.00
VFRR-6M025 .025 .060 .012 $24.00
VFRR-6M030 .030 .090 .015 $24.00
VFRR-6M040 .040 .110 .020 $24.00
VFRR-6M047 .047 .130 .025 $23.50
VFRR-6M062 .062 .160 .031 $23.00
VFRR-6M078 .078 .180 .039 $23.00
VFRR-6M093 .093 .200 .046 $23.00

* with chip breaker

FIT MORE TOOLS PER SETUP WITH THE OmniTURN MULTIBar!
The MULTIbar puts two turning tools in the smallest area. The width of the tool with inserts is less than 1.1". By using the MULTIbar you can get more tools into the setup without compromising rigidity.

THE MULTIbar Puts Two Turning Tools in the Smallest Area. The Width of the Tool with inserts is less than 1.1". By using the MULTIbar you can get more tools into the setup without compromising rigidity.

OMniTURN’S MULTIBar
MultiBar with 5/8" shank  $149.00
Extra Torx wrench T-7  $5.50
Extra insert screws 2.40-064  $3.50

- 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.

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.

<table>
<thead>
<tr>
<th>Insert #</th>
<th>W</th>
<th>D</th>
<th>R</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNVR-6M031</td>
<td>.031</td>
<td>.150</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VNVR-6M047</td>
<td>.047</td>
<td>.180</td>
<td>.002</td>
<td>$23.50</td>
</tr>
<tr>
<td>VNVR-6M062</td>
<td>.062</td>
<td>.200</td>
<td>.002</td>
<td>$23.00</td>
</tr>
<tr>
<td>VNVR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.004</td>
<td>$23.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Insert #</th>
<th>W</th>
<th>D</th>
<th>R</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNGR-6M020</td>
<td>.020</td>
<td>.050</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VNGR-6M025</td>
<td>.025</td>
<td>.065</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VNGR-6M031</td>
<td>.031</td>
<td>.090</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VNGR-6M040</td>
<td>.040</td>
<td>.100</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VNGR-6M047</td>
<td>.047</td>
<td>.130</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VNGR-6M062</td>
<td>.062</td>
<td>.160</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VNGR-6M078</td>
<td>.078</td>
<td>.200</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VNGR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.000</td>
<td>$23.00</td>
</tr>
</tbody>
</table>

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.

<table>
<thead>
<tr>
<th>Insert #</th>
<th>W</th>
<th>D</th>
<th>R</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VTGR-6M031</td>
<td>.031</td>
<td>.050</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VTGR-6M047</td>
<td>.047</td>
<td>.085</td>
<td>.000</td>
<td>$24.00</td>
</tr>
<tr>
<td>VTGR-6M062</td>
<td>.062</td>
<td>.130</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VTGR-6M078</td>
<td>.078</td>
<td>.200</td>
<td>.000</td>
<td>$23.50</td>
</tr>
<tr>
<td>VTGR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.000</td>
<td>$23.50</td>
</tr>
</tbody>
</table>
# 8mm 35° Series Tooling Inserts

## Spare Parts

<table>
<thead>
<tr>
<th>Item</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screw 3.20-095</td>
<td>$3.00</td>
</tr>
<tr>
<td>Wrench T-10</td>
<td>$5.00</td>
</tr>
<tr>
<td>8MM Insert MultiBar</td>
<td>$195.00</td>
</tr>
</tbody>
</table>

## Front Turn

<table>
<thead>
<tr>
<th>R.H. Insert No.</th>
<th>Price</th>
<th>Width</th>
<th>Depth</th>
<th>Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFTR-8M040</td>
<td>$22.00</td>
<td>.156</td>
<td>4.00</td>
<td>.300</td>
</tr>
<tr>
<td>VFTR-8M045</td>
<td>$23.00</td>
<td>.156</td>
<td>4.00</td>
<td>.300</td>
</tr>
<tr>
<td>*VFTRB-8M040</td>
<td>$24.00</td>
<td>.156</td>
<td>4.00</td>
<td>.300</td>
</tr>
<tr>
<td>*VFTRB-8M045</td>
<td>$24.00</td>
<td>.156</td>
<td>4.00</td>
<td>.300</td>
</tr>
</tbody>
</table>

*WITH CHIP CONTROL

## Back Turn

<table>
<thead>
<tr>
<th>R.H. Insert No.</th>
<th>Price</th>
<th>Width</th>
<th>Depth</th>
<th>Radius</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBTR-8M308</td>
<td>$23.00</td>
<td>.125</td>
<td>3.18</td>
<td>.300</td>
</tr>
<tr>
<td>VBTR-8M306</td>
<td>$23.50</td>
<td>.093</td>
<td>2.36</td>
<td>.300</td>
</tr>
<tr>
<td>VBTR-8M305</td>
<td>$23.50</td>
<td>.078</td>
<td>1.98</td>
<td>.250</td>
</tr>
<tr>
<td>VBTR-8M304</td>
<td>$23.50</td>
<td>.062</td>
<td>1.57</td>
<td>.190</td>
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</table>

## Plunge & Turn

<table>
<thead>
<tr>
<th>R.H. Insert No.</th>
<th>Price</th>
<th>Width</th>
<th>Depth</th>
<th>Radius</th>
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</thead>
<tbody>
<tr>
<td>VTGR-8M125</td>
<td>$23.00</td>
<td>.125</td>
<td>3.18</td>
<td>.300</td>
</tr>
<tr>
<td>VTGR-8M093</td>
<td>$23.50</td>
<td>.093</td>
<td>2.36</td>
<td>.300</td>
</tr>
<tr>
<td>VTGR-8M078</td>
<td>$23.50</td>
<td>.078</td>
<td>1.98</td>
<td>.250</td>
</tr>
<tr>
<td>VTGR-8M062</td>
<td>$23.50</td>
<td>.062</td>
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<td>.190</td>
</tr>
<tr>
<td>VTGR-8M047</td>
<td>$24.00</td>
<td>.047</td>
<td>1.19</td>
<td>.130</td>
</tr>
<tr>
<td>VTGR-8M031</td>
<td>$24.00</td>
<td>.031</td>
<td>0.78</td>
<td>.050</td>
</tr>
</tbody>
</table>

**OmniTurn's 8mm Bar** $195.00 5/8" Shank

---

*Images of tooling inserts and MultiBars are shown.*

---

[14] (631) 694-9400  www.omni-turn.com  Fax (631) 694-9415
# 8mm 35° SERIES TOOLING INSERTS

## Threading 60°

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
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<td>VNVR-8M125</td>
<td>$23.00</td>
<td>.125</td>
<td>3.18</td>
<td>.300</td>
<td>7.62</td>
<td>.004</td>
<td>0.10</td>
</tr>
<tr>
<td>VNVR-8M062</td>
<td>$23.00</td>
<td>.062</td>
<td>1.57</td>
<td>.250</td>
<td>6.35</td>
<td>.002</td>
<td>0.05</td>
</tr>
<tr>
<td>VNVR-8M031</td>
<td>$23.50</td>
<td>.031</td>
<td>0.78</td>
<td>.190</td>
<td>4.82</td>
<td>.000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Thread form is centrally located.

## Cut-Off

<table>
<thead>
<tr>
<th>R.H. Insert No.</th>
<th>Price</th>
<th>Width (Inch)</th>
<th>Depth (Inch)</th>
<th>A°</th>
</tr>
</thead>
<tbody>
<tr>
<td>VCOR-8M158</td>
<td>$23.00</td>
<td>.125</td>
<td>3.18</td>
<td>15°</td>
</tr>
<tr>
<td>VCOR-8M156</td>
<td>$23.00</td>
<td>.093</td>
<td>2.36</td>
<td>15°</td>
</tr>
<tr>
<td>VCOR-8M155</td>
<td>$23.00</td>
<td>.078</td>
<td>1.98</td>
<td>15°</td>
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<tr>
<td>VCOR-8M154</td>
<td>$23.00</td>
<td>.062</td>
<td>1.57</td>
<td>15°</td>
</tr>
<tr>
<td>VCOR-8M153</td>
<td>$23.50</td>
<td>.047</td>
<td>1.19</td>
<td>15°</td>
</tr>
</tbody>
</table>

## Grooving

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>VNVR-8M125</td>
<td>$23.00</td>
<td>.125</td>
<td>3.18</td>
<td>.300</td>
<td>7.62</td>
<td>.004</td>
<td>0.10</td>
</tr>
<tr>
<td>VNVR-8M062</td>
<td>$23.00</td>
<td>.062</td>
<td>1.57</td>
<td>.250</td>
<td>6.35</td>
<td>.002</td>
<td>0.05</td>
</tr>
<tr>
<td>VNVR-8M031</td>
<td>$23.50</td>
<td>.031</td>
<td>0.78</td>
<td>.190</td>
<td>4.82</td>
<td>.000</td>
<td>0.00</td>
</tr>
</tbody>
</table>

Thread form is centrally located.

---

**OmniTurn’s 8mm Bar** $195.00

5/8" Shank

(631) 694-9400  www.omni-turn.com  Fax (631) 694-9415
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.

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 ...$159.00
(Uses right handed inserts)
Extra T-25 wrench..........................$5.00
Extra 4.76-127 screw..........................$3.00

LARGE MULTIBAR

STANR-085-V $110.50
1/2” square shank - 3.5” overall length

STANR-085-V
$110.50

LARGE MULTIBAR 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).
**ATTENTION - SWISS MACHINE USERS...**

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

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

**TOOL HOLDERS**

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

**RIGHT HAND SHOWN**

**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.

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

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

Right hand bar shown

GT-75 AND GT-JR ROUND SPINDLE LINERS:

$195.00 Each

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

Drawtube spindle plugs $69.00

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.

"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.
## Multi series

### Front Turning

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Edge Shape (a x β°)</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSVF11FR/V-M</td>
<td>No</td>
<td>.018 (0.45)</td>
<td>.012 (0.3) x 5°</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVF11FR/VB-M</td>
<td>Yes</td>
<td>.029 (0.75)</td>
<td>.012 (0.3) x 5°</td>
<td>$5.75</td>
</tr>
</tbody>
</table>

### Back Turning

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Edge Shape (a x β°)</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSVB11FR/V</td>
<td>No</td>
<td>.039 (1.0)</td>
<td>.012 (0.3) x 5°</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVB11FR/V-M</td>
<td>Yes</td>
<td>.039 (1.0)</td>
<td>.012 (0.3) x 5°</td>
<td>$5.75</td>
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</tbody>
</table>

### Cut Off

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSVC11FR/V07</td>
<td>No</td>
<td>.028 (0.7) - .029 (0.75)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVC11FR/V10</td>
<td>No</td>
<td>.039 (1.0)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVC11FR/V15</td>
<td>No</td>
<td>.059 (1.5)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVC11FR/VB07</td>
<td>Yes</td>
<td>.059 (1.5)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVC11FR/VB10</td>
<td>Yes</td>
<td>.059 (1.5)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVC11FR/VB15</td>
<td>Yes</td>
<td>.059 (1.5)</td>
<td>$5.75</td>
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</table>

### Threading

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSVT11FR/P60-035-A</td>
<td>No</td>
<td>.088 (0.2) - .020 (0.5)</td>
<td>$5.75</td>
</tr>
</tbody>
</table>

### Grooving

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Price Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSVG11FR/V025</td>
<td>No</td>
<td>.010 (0.25)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V035</td>
<td>No</td>
<td>.014 (0.35)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V050</td>
<td>No</td>
<td>.020 (0.50)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V060</td>
<td>No</td>
<td>.024 (0.60)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V070</td>
<td>No</td>
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<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V075</td>
<td>No</td>
<td>.030 (0.75)</td>
<td>$5.75</td>
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<tr>
<td>CSVG11FR/V900-100</td>
<td>No</td>
<td>.035 (0.90)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V120</td>
<td>No</td>
<td>.047 (1.20)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V140</td>
<td>No</td>
<td>.055 (1.40)</td>
<td>$5.75</td>
</tr>
<tr>
<td>CSVG11FR/V157</td>
<td>No</td>
<td>.062 (1.57)</td>
<td>$5.75</td>
</tr>
</tbody>
</table>

**BAR $298.00**

**Part # DS-CSVL15............$100.00**
**LEFT HANDED TURNING**

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 insert is well supported. Threading inserts are also available.

**Left Handed turning Tool**
$145.95

Spare screw - SC-30 $3.25

TPCG-3205-CG5 $16.95 each Left Handed Turning w/.007 TNR

TPGH-321-CG5 $16.95 each Left Handed Turning w/.015 TNR

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

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

**OMNI TURN’S T/T TOOL SAVES SPACE AND TIME**

<table>
<thead>
<tr>
<th>Insert #</th>
<th>Width</th>
<th>Depth</th>
<th>Min Major Dia</th>
</tr>
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Extra Torx wrench T-7 $5.50
Extra insert screws 2.40-064 $3.50

sold in packs of ten

**Includes:**
- (3) OMTN-007
- (3) OMTN-015
- (4) 375-TD10

---

**LEFT HANDED TURNING**

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**

**MULTI BAR TREPN FACE GROOVING**

$175.00 5/8" Shank

Extra Insert screws 2.40-064 $3.50 each

---

**TURNING INSERT W/ .015 TNR**
Iscar Cut Off Blade

<table>
<thead>
<tr>
<th>W</th>
<th>Part #</th>
<th>R</th>
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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 ............$147.00

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....................$998.00

Hex - Inch

<table>
<thead>
<tr>
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Square - Inch

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<td>SQ00-7/32</td>
<td>$67.00</td>
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</table>
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.

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

MADE IN THE U.S.A.

Model 350 - 3 Inch - 3 jaw (.060" opening) $3,595.00
(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 Q of spindle

Model 450 - 4 Inch - 3 jaw (.100" opening) $3,995.00
(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

$3,595.00
$3,995.00

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Thru-Hole MM</th>
<th>Max Radial Stroke</th>
<th>Max Radial Stroke w/ Dunham Collet Closer</th>
<th>Max Speed Min -1 (R.P.M)</th>
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<td>NT04</td>
<td>No</td>
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**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
$3,995.00

**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
$3,595.00

**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
$2,995.00
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

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.
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 planing on using the quill with a vertical holder, you will not be able to used 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.

### 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.
UNIT SPECIFICATION

Model: NE314
Power source: AC-100 50-60 Hz 1 phase
Power consumption: 1.45A

MOTOR & SPINDLE

Motor: EM25N-5000- J4
Spindle: NR-2551
Speed: 1,000 – 50,000 min - (rpm)*
Weight: 1 lb. 0.40 oz. (w/o motor cable)
Dimensions: Ø 0.98” x 7.41”

E2000 SERIES COMBINATION:

<table>
<thead>
<tr>
<th>CAT NO.</th>
<th>MODEL</th>
<th>PRODUCT</th>
<th>PRICE</th>
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<tbody>
<tr>
<td>7720</td>
<td>NE314</td>
<td>Control Unit</td>
<td>$1,389.00</td>
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<tr>
<td>AS88322</td>
<td>EM25-N5000-J4</td>
<td>Brushless Motor</td>
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<tr>
<td>AS81820</td>
<td>NR-H2551</td>
<td>1” OD Spindle</td>
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<td>4504</td>
<td>AL-C1204</td>
<td>Air Line Kit</td>
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NSK Omni-Live Tool Holder - Part # 1” BORE $195.00
WITH BRASS CLAMP TO HELP PROTECT SPINDLE

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Model</th>
<th>Outside Diameter</th>
<th>Speed Reduction Ratio</th>
<th>Price</th>
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<td>AS81826P</td>
<td>ARG-H2504N</td>
<td>Ø1.0” (Ø25.4mm)</td>
<td>1/2”</td>
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<tr>
<td>AS81822P</td>
<td>ARG-2504N</td>
<td>Ø0.98” (Ø25MM)</td>
<td>1/2”</td>
<td></td>
</tr>
</tbody>
</table>

NSK Omni-Live Tool Holder - Part # Omni 590 - 1/2” center height - $185
E3000 SERIES COMBINATION
30,000 MIN (RPM) - 92 WATTS

BRUSHLESS MOTOR.............................$1,121.00
Model: EM-3060
Description: Brushless Motor (cord with quick disconnect)
Standard Equipment - Accessories:
Wrench (22 x 27): 1 pc
Motor cord - Sold Separately

Spindle.........................$925.00
Model: NR403E [30MM OD]

Standard Equipment - Accessories:
Collet Ø1/8" (chk - 3.175)
Collet Nut (K-265): 1 pc
Wrench (12 x 14): 2 pcs., (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): 2 pcs., (22 x 27): 1 pc

Motor Cord 13'......................$379.00
EMCD-3000 4M (connector cap provided)

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

• 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

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

Specifications
Model: NE212
Power Source: AC120V
Power Consumption: 0.15A
Air Flow Volume: Max. 4.0CFM
Weight: 4 lb. 3.02 oz.
Dimensions: W3.46" x D5.43" x H9.37"
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<td>693-08-200</td>
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<td>Dunham Drawtube Only</td>
<td>693-08-211</td>
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<td>Drawtube Plug Spindle</td>
<td>633-11-001</td>
<td>$59.00</td>
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<tr>
<td>Mac Double Solenoid Valve Only</td>
<td>997-15-007</td>
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<tr>
<td>Anti Rotation Bracket</td>
<td>693-01-001</td>
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<td>Air Lubricator Assembly with bracket Fittings additional.</td>
<td>697-11-003</td>
<td>$95.00</td>
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<tr>
<td>DunhamCollet closerAir Fittings</td>
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<td>$5.00/each</td>
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<tr>
<td>Air line 1/4” x 1/4”</td>
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<tr>
<td>Lube line 5/32” x 1/8” NPT</td>
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<td>Drawtube locking key Assembly</td>
<td>693-08-210</td>
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<td>Dunham collet closer rebuilt kit, includes seals and bearings.</td>
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<tr>
<td>Dunham bearings only.</td>
<td>693-08-202</td>
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<tr>
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<td>693-09-102</td>
<td>$65.00</td>
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</table>

Mobil “DTE” light (or Equivalent) - One drop every 15 seconds - Air pressure: 15 PSI
Dunham collet closer breakdown for GT-75 and GT-JR

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

<table>
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<th>BOM: AIR COLLET CLOSER OIL MIST OMNITURN</th>
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<td>15</td>
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<tr>
<td>16</td>
</tr>
</tbody>
</table>

Replace Dunham Collet Closer Bearings procedure:

1. Remove the collet.
2. Remove the snap-ring.
3. Pull knurled knob, rear bearing and drawtube completely out of the collet closer.
4. Remove rear bearing retain snap-ring.
5. Install the new bearing.
6. Reassemble, and replace front bearing (page 2).
# OmniTurn CNC Lathes Made in Oregon

*Fast... Precise... Affordable...*

---

**GT-75 Turning Center**

$39,795 Complete

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

---

## Specifications:

### Capacities

<table>
<thead>
<tr>
<th>Workholding</th>
<th>5C Collet (.04&quot;&quot;) Chuck Max (opt.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. Cutting Diameter</td>
<td>1.6&quot;</td>
</tr>
<tr>
<td>Max. Bar Diameter</td>
<td>1.06&quot;</td>
</tr>
<tr>
<td>Tooling Plate</td>
<td>6&quot; x 14&quot; with 3/8&quot; T-Slot</td>
</tr>
</tbody>
</table>

### Spindle

| Max Speed | 4,000rpm (6000 opt.) |
| Max Rating | 5 hp |
| Spindle Nose | 5C w/4" camlock |
| Drawtube Bore | 1.25" |

### Construction

- Ways: Precision Linear Guides
- Ball Screws: Precision-ground Zero Backlash
- Base Billet: MJT Composite Casing
- Headstock: Meltanite
- Coolant Pump: 1/6hp 65gpm (1/4hp 20gpm opt.)

### Travels & Feedrates

- **X-Axis**: 12" (0.0005"")
- **Z-Axis**: 9" (0.001"")
- Resolution of Slide Travel: 0.00005"
- Repeatability of Slide Travel: 0.0001"
- Threading: 240tpi to unlimited
- Axes Thrust: 500lbs cont., 750lbs int.
- Max Rapid: 200ipm
- Max Cutting: 300ipm

### General

- **Machine Weight**: 1,650lbs
- **Air Required**: 3 scfm @ 70 psi
- **Electrical**: 208-240 VAC, 1 or 3 phase @ 70A
- **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 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
- Orientation
- Change over time for similar parts
- Part consistency
- Concentricity
- Chips
- Work holding
- Fault resets and automation
- Finished part unloading
- Vibratory bowl interface
- Documentation for operator use, setup, and troubleshooting
- Schematics and spare parts lists

<table>
<thead>
<tr>
<th>Time</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 sec</td>
<td>Load/unload, Held on the OD, drilled 14 holes, bored the ID. Qualified the overall length</td>
<td>$3,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, Held on the OD, Finished the radius on the face.</td>
<td>$6,000</td>
</tr>
<tr>
<td>10 sec</td>
<td>Load/unload, One of a family of parts, load and unload without damaging finish. Change over time,</td>
<td>$16,000</td>
</tr>
<tr>
<td>8 sec</td>
<td>Load/unload, Thin sheet metal stamping. Work holding was an issue.</td>
<td>$7,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, Very simple track loader. Simple to build and setup</td>
<td>$3,500</td>
</tr>
<tr>
<td>5 sec</td>
<td>Load/unload, Universal pick and place that can be changed over in minutes</td>
<td>$10,500</td>
</tr>
<tr>
<td>2.5 sec</td>
<td>Load/unload, Turn radius on end, cross drill and deburr. Dedicated loader from bowl</td>
<td>$5,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, Simple track loader, adjustable and universal</td>
<td>$9,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, Unloaded carefully, no marks on finished face</td>
<td>$3,500</td>
</tr>
<tr>
<td>8 sec</td>
<td>Load/unload, End work on shafts. OmniZip with hopper holds 1000 parts.</td>
<td>$5,500</td>
</tr>
<tr>
<td>3 sec</td>
<td>Load/unload, Universal pick and place that can be changed over in minutes</td>
<td>$7,500</td>
</tr>
<tr>
<td>3.5 sec</td>
<td>Load/unload, On C axis machine, load off center, drill and tap one hole, drill other.</td>
<td>$8,500</td>
</tr>
<tr>
<td>4 sec</td>
<td>Load/unload, Loader for family of parts, fast load time, simple change overs.</td>
<td>$8,500</td>
</tr>
<tr>
<td>12 sec</td>
<td>Load/Unload, Both sides of part was machined.</td>
<td>$8,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, Extruded stock loaded by rear end loader, 3 second cycle time per part</td>
<td>$7,500</td>
</tr>
<tr>
<td>6 sec</td>
<td>Load/unload, 5,000 part run, OD thread only. Built loader in 2 days for almost off the shelf delivery</td>
<td>$4,500</td>
</tr>
<tr>
<td>6.5 sec</td>
<td>Load/unload, Family of parts done with simple loader. Change over time is only 5 minutes.</td>
<td>$4,500</td>
</tr>
<tr>
<td>8 sec</td>
<td>Load/unload, Held on ID, turned entire OD. .0003&quot; total all over.</td>
<td>$5,500</td>
</tr>
</tbody>
</table>

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.

(631) 694-9400  www.omni-turn.com  Fax (631) 694-9415
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.
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 +/- .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 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.

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

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....................................................$2,500

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.

Get yours today and stop fumbling with floppy disks!

**Spindle Work Stop - Easy Installation**

For use on CNC and Manual lathes.

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 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

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Feet - 4 per set</td>
<td>$89.00</td>
</tr>
<tr>
<td>Feet with vibration pads - 4 per set</td>
<td>$98.00</td>
</tr>
</tbody>
</table>

### 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)
  - 491-09-002 $169.00

### Collet close confirmation pneumatic switch kit

- 697-09-100 $98.00

### Encoder Cable

- 995-07-003 $69.00

### Dunham Collet closer draw tube only

- for GT-75 and GT-Jr
  - 693-08-211 $250.00

### 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

### Spindle bearings for:

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

<table>
<thead>
<tr>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>693-08-106 set of two</td>
<td>$495.00</td>
</tr>
<tr>
<td>693-08-105 - Nilos Seal</td>
<td>$98.00</td>
</tr>
<tr>
<td>Hardinge HC, AHC, HNC</td>
<td>$795.00</td>
</tr>
</tbody>
</table>

### Grease for spindle bearings

- 004026-221 $39.50

### Encoder encoder for all machines

- 995-16-005 $645.00

### Encoder belts

- Encoder belt - GT-75 (MX315)
  - All attachments except HLV
  - 993-21-001 $14.00
- Encoder belt - GT-JR (MX280)
  - 593-21-001 $14.00
  - 093-21-001 HLV or HLV-H $19.00

### 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" $65.00
- DSM, DV 193-22-001 ID=2.375" $88.00
- HSL 193-22-001 ID=2.810" $65.00
- HC, AHC, HNC 293-22-001 ID=1.875" $65.00

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

- 995-16-100 - 1 year warranty $1,275.00

### OmniTurn Axis Amplifier

- Both X and Z use the same amp
- 995-16-007 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 LCD Monitor $825.00

Replacement LCD Monitor

- 995-16-019 G3cnc USED $269.00
- 995-16-019 G4cnc NEW $430.00

Motherboard for G2 & G3

- No longer available

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 $24.00
- Socket for relay - 999-15-006 $15.00

Dunham collet closer rebuilt 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:

- 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
  - 995-12-105 $39.00

- Emergency stop push button
  - Black, maintained, twist to unlock
  - 998-12-101 $39.00

- 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

- Operator station complete with cable
  - 998-00-000 $450.00

- Palm box push buttons

- 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
- 924-16-005 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 female connector: $7.50
- Pin Extractor: $39
- PolyTuff fitting: $19

Braking resistors

- 5HP $245.00
- 914-15-001

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

(631) 694-9400  www.omni-turn.com  Fax (631) 694-9415
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

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

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**DIRECT DRIVES FOR ATTACHMENTS**

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chip bin with perforated bottom</td>
<td>$159.00</td>
</tr>
<tr>
<td>Chip bin filter</td>
<td>$10.00</td>
</tr>
<tr>
<td>Spindle nose cover</td>
<td>$98.00</td>
</tr>
<tr>
<td>12VDC RELAY</td>
<td>$24.00</td>
</tr>
<tr>
<td>Servo motor thermal overload</td>
<td>$19.00</td>
</tr>
<tr>
<td>PLC kit</td>
<td>$1,095.00</td>
</tr>
<tr>
<td>Chip bin filter</td>
<td>$10.00</td>
</tr>
<tr>
<td>Spindle nose cover</td>
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</tr>
<tr>
<td>PLC kit</td>
<td>$1,095.00</td>
</tr>
</tbody>
</table>

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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

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**NEW OMNITURN G4 CNC CONTROL WITH CORE EXCHANGE**

1 Year Warranty from Ship Date

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### G4 CONTROL REPLACEMENT PARTS

<table>
<thead>
<tr>
<th>Part Description</th>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>5AXMC CARD</td>
<td>995-49-011</td>
<td>$895  with exchange</td>
</tr>
<tr>
<td>POWER SUPPLY</td>
<td>995-16-020</td>
<td>$98</td>
</tr>
<tr>
<td>MOTHERBOARD</td>
<td>995-17-015</td>
<td>$595 (with exchange)</td>
</tr>
<tr>
<td>AXIS AMP X and Z axis</td>
<td>995-16-007</td>
<td>$585  with exchange.</td>
</tr>
<tr>
<td>AXIS AMP X and Z axis</td>
<td>995-16-007</td>
<td>$585  with exchange.</td>
</tr>
<tr>
<td>DIRECT MOUNT ENCODER 5HP 1/4&quot; SHAFT</td>
<td>995-16-105</td>
<td>$350</td>
</tr>
<tr>
<td>DIRECT MOUNT ENCODER 5HP 3/8&quot; SHAFT</td>
<td>995-16-103</td>
<td>POR</td>
</tr>
<tr>
<td>Control On/Off Switch Assembly</td>
<td>995-12-201</td>
<td>$40</td>
</tr>
<tr>
<td>Collet Open/Close Assembly</td>
<td>995-12-202</td>
<td>$40</td>
</tr>
<tr>
<td>Collet Open/Close Assembly</td>
<td>995-12-202</td>
<td>$40</td>
</tr>
<tr>
<td>Work Lamp Kit (Includes Brackets) LED</td>
<td>491-09-002</td>
<td>$169</td>
</tr>
<tr>
<td>USB keyboard [For G4 CNC ONLY]</td>
<td>995-16-025</td>
<td>$225.00</td>
</tr>
<tr>
<td>Replacement LCD Monitor for G4 controls.</td>
<td>995-16-019G4</td>
<td>$430.00</td>
</tr>
</tbody>
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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

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 in 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 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
OmniTurn

East Coast Sales Headquarters
97 Sherwood Ave.
Farmingdale, NY 11735
Tel: (631) 694-9400 | Fax: (631) 694-9415

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.