We at OmniTurn, represent many manufacturers:

- ACCUTRAK
- AUTOMATION SPECIALTIES
- CENTAUR
- CIRCLE MACHINE
- DUNHAM
- ENGBAR
- FEEDING CONCEPTS
- ISCAR
- KITAGAWA
- MAXBAR
- NSK
- NTK
- SMC
- SOMMA
- TRIPLE AIR

UNIVERSAL ROBOT

40 Allen Blvd - Farmingdale NY 11735 | Phone (631) 694-9400 | Fax (631) 694-9415
sales@omni-turn.com | www.omni-turn.com

Prices are subject to change without notice.
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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!
**STARTER TOOLING KITS**

**Attachment**

**Basic Kit - Available in 3/8” or 1/2”**
- Post W TF625
- Cutoff-11/16
- MultiBar Starter Kit
- Iscar Cutoff w/inserts
- Set of Bushings
- (2) Omni-101L/115L
- Omni-200/205
- Omni-300/305
- Omni-800/805PF

$1,995.00

**Advanced Kit: includes the Basic Kit**
- (2) OTC-16
- OTC-16 Wrench
- OTC-16 Collet Set
- Tapping Head
- Offset Post Assembly

$2,995.00

**GT-75**

**Basic Kit - Available in 3/8” or 1/2”**
- Post W TF625
- Cutoff-F
- MultiBar Starter Kit
- Iscar Cutoff w/inserts
- Set of Bushings
- (2) Omni-101L/115L
- Omni-200/205
- Omni-300/305
- Omni-800/805PF

$1,995.00

**Advanced Kit: includes the Basic Kit**
- (2) OTC-16
- OTC-16 Wrench
- OTC-16 Collet Set
- Tapping Head
- Offset Post Assembly

$2,995.00

**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!
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.

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.

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.

OMNI 5/8" BUSHINGS

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

<table>
<thead>
<tr>
<th>Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bushing 1/8 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 3/16 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 1/4 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 5/16 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 3/8 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 7/16 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
<tr>
<td>Bushing 1/2 x 5/8&quot;</td>
<td>$25.95</td>
</tr>
</tbody>
</table>

OMNI TURN “T” NUTS

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

<table>
<thead>
<tr>
<th>NUT</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>TNUT-1</td>
<td>Single hole T-nut</td>
<td>$8.00</td>
</tr>
<tr>
<td>TNUT-P</td>
<td>.900 between centers</td>
<td>$10.00</td>
</tr>
<tr>
<td>TNUT-B</td>
<td>1.1 between centers</td>
<td>$10.00</td>
</tr>
<tr>
<td>TNUT-A</td>
<td>2.2 between centers</td>
<td>$11.00</td>
</tr>
</tbody>
</table>

(631) 694-9400 www.omni-turn.com Fax (631) 694-9415
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 POST ASSEMBLY BACK MOUNTED
OFFSET POST ASSEMBLY REAR MOUNTED

TF-625 Ext.
Allows for adjustment so a larger tool can be used and still be on center.
TF-625 Ext.....$125.00

Tool Holders for OmniTurn Posts

Now holds 3/4" tools

<table>
<thead>
<tr>
<th>Tool</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni TF625</td>
<td>$115.00</td>
</tr>
<tr>
<td>Omni L type Right</td>
<td>$128.00</td>
</tr>
<tr>
<td>Omni L type Left</td>
<td>$128.00</td>
</tr>
</tbody>
</table>

Tool Post Extensions

<table>
<thead>
<tr>
<th>Tool</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni 2 Gang</td>
<td>$115.00</td>
</tr>
<tr>
<td>Omni 3 Gang</td>
<td>$115.00</td>
</tr>
<tr>
<td>Omni Universal</td>
<td>$115.00</td>
</tr>
</tbody>
</table>

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

Omni-500L $165.00

TF-625 Ext.
Allows for adjustment so a larger tool can be used and still be on center.
TF-625 Ext.....$125.00

OMNI TF-625 Ext.
Allows for adjustment so a larger tool can be used and still be on center.
OMNI TF-625 Ext.....$125.00

Extends up to .375" $235.00 Extends up to .8125" $190.00

W ext. Long $235.00 to .8125" $190.00

OMNI SOFT BLANK $50.00

OMNI 11/16 “Back” Cutoff Holder $115.00

OMNI CUTOFF - FRONT MOUNT $115.00
## 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 position bars

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-800PFB</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$295.00</td>
</tr>
<tr>
<td>Omni-805PFB</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$295.00</td>
</tr>
</tbody>
</table>

Uses T nut style: TNUT-A

### 1 station with lip

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-100L</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$115.00</td>
</tr>
<tr>
<td>Omni-115L</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$115.00</td>
</tr>
<tr>
<td>Omni-1175L</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>$115.00</td>
</tr>
</tbody>
</table>

### 2 station with lip

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-200</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$125.00</td>
</tr>
<tr>
<td>Omni-205</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$125.00</td>
</tr>
<tr>
<td>Omni-2075</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

### 3 station with lip

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-300</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$135.00</td>
</tr>
<tr>
<td>Omni-305</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$135.00</td>
</tr>
<tr>
<td>Omni-3075</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>$135.00</td>
</tr>
</tbody>
</table>

### 1 station - Heavy Duty

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-100</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$125.00</td>
</tr>
<tr>
<td>Omni-105</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$125.00</td>
</tr>
<tr>
<td>Omni-1075</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>$125.00</td>
</tr>
</tbody>
</table>

### 8 station - moveable pin

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-800</td>
<td>3/8&quot;</td>
<td>3/8&quot;</td>
<td>$295.00</td>
</tr>
<tr>
<td>Omni-805</td>
<td>1/2&quot;</td>
<td>1/2&quot;</td>
<td>$295.00</td>
</tr>
</tbody>
</table>

5/8" bores

### 7 station - No Pin

<table>
<thead>
<tr>
<th>Model</th>
<th>Bore Diameter</th>
<th>Center Height</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Omni-700</td>
<td>5/8&quot;</td>
<td>3/8&quot;</td>
<td>$295.00</td>
</tr>
<tr>
<td>Omni-705</td>
<td>5/8&quot;</td>
<td>1/2&quot;</td>
<td>$295.00</td>
</tr>
<tr>
<td>Omni-7075</td>
<td>3/4&quot;</td>
<td>1/2&quot;</td>
<td>$295.00</td>
</tr>
</tbody>
</table>
**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.

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 $185.00
- Live In-Line - 30mm bore $200.00
- Live In-Line - 36mm bore $215.00
LARGE OMNI-LIVE TOOL HOLDERS

- 5-30 - 30mm bore $160.00
- 5-36 - 36mm bore $170.00
- 5-40 - 40mm bore $180.00

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

LARGE 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.

NSK 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.

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 $398.00

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.

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OMNITURN COLLET SYSTEM

OMNIturn OTC-16 FLOATING Tap holder $215

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 clutch.

COLLET SETS

OTC-11 Set (13 piece) $295.00
OTC-16 Set (10 piece) $225.00

ER16 TAP COLLETS

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

<table>
<thead>
<tr>
<th>Tap Size</th>
<th>Shank Size</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-6</td>
<td>0.141</td>
<td>$59.50</td>
</tr>
<tr>
<td>8</td>
<td>0.168</td>
<td>$59.50</td>
</tr>
<tr>
<td>10</td>
<td>0.194</td>
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<tr>
<td>12</td>
<td>0.220</td>
<td>$59.50</td>
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<td>5/32</td>
<td>0.255</td>
<td>$59.50</td>
</tr>
<tr>
<td>11/32</td>
<td>0.318</td>
<td>$59.50</td>
</tr>
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</table>

Self Releasing Tap Holder

Tap Holder #TH00 $435.00

Bushings for Tap Holders

<table>
<thead>
<tr>
<th>Tap Size</th>
<th>Shank Dia</th>
<th>Part #</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>#0 thru #6</td>
<td>.141</td>
<td>1001</td>
<td>$32.00</td>
</tr>
<tr>
<td>#7 - #8 - 5/32</td>
<td>.168</td>
<td>1002</td>
<td>$32.00</td>
</tr>
<tr>
<td>#9 - #10 - 3/16</td>
<td>.194</td>
<td>1003</td>
<td>$32.00</td>
</tr>
<tr>
<td>#12 - 7/32</td>
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</tr>
<tr>
<td>9/32</td>
<td>.286</td>
<td>1006</td>
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</tr>
<tr>
<td>5/16</td>
<td>.318</td>
<td>1007</td>
<td>$32.00</td>
</tr>
<tr>
<td>11/32</td>
<td>.349</td>
<td>1008</td>
<td>$32.00</td>
</tr>
<tr>
<td>3/4</td>
<td>.381</td>
<td>1009</td>
<td>$42.00</td>
</tr>
<tr>
<td>3/4</td>
<td>.381</td>
<td>1010</td>
<td>$42.00</td>
</tr>
</tbody>
</table>

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

**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.

<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>
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<td>.63</td>
<td>.24</td>
<td>.12</td>
<td>$293</td>
<td></td>
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<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>$323</td>
</tr>
</tbody>
</table>

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

Heavy Duty Tap Holder $275

**SUPER GRIP 5C COLLETS.....$125**

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 $950
Through spindle air blast $750
Combined system $1,500

(631) 694-9400 www.omni-turn.com Fax (631) 694-9415 11
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.

Inserts are sold in packs of 10 (ten). Add $1.00 to the cost of each insert when purchasing in quantities of less than 10 (ten).

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.

New and Improved multibar is made with more material in the pocket area for better holding power of the insert.
**MultiBar 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
- (2) Threading VNVR-6M062
- (1) Threading VNVR-6M093
- (1) Plunge & turn VTGR-6M078
- (1) Spare screw 2.40-064

**MultiBar Starter Kit PN-6MBSK $298.00**

*Includes bar, torx wrench and screw*

---

**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.*

---

**Full Radius Inserts**

<table>
<thead>
<tr>
<th>Insert #</th>
<th>Width</th>
<th>Depth</th>
<th>Radius</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>VFRR-6M010</td>
<td>.010</td>
<td>.030</td>
<td>.005</td>
<td>$20.45</td>
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<tr>
<td>VFRR-6M015</td>
<td>.015</td>
<td>.040</td>
<td>.007</td>
<td>$20.33</td>
</tr>
<tr>
<td>VFRR-6M020</td>
<td>.020</td>
<td>.050</td>
<td>.010</td>
<td>$20.15</td>
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<tr>
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<tr>
<td>VFRR-6M047</td>
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<td>.130</td>
<td>.023</td>
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</tr>
<tr>
<td>VFRR-6M062</td>
<td>.062</td>
<td>.160</td>
<td>.031</td>
<td>$19.36</td>
</tr>
<tr>
<td>VFRR-6M078</td>
<td>.078</td>
<td>.200</td>
<td>.039</td>
<td>$19.22</td>
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<tr>
<td>VFRR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.046</td>
<td>$19.07</td>
</tr>
</tbody>
</table>

---

**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>$19.33</td>
</tr>
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<td>.002</td>
<td>$19.01</td>
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<tr>
<td>VNVR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.004</td>
<td>$18.72</td>
</tr>
</tbody>
</table>

* with chip breaker

---

**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>$20.10</td>
</tr>
<tr>
<td>VNGR-6M025</td>
<td>.025</td>
<td>.065</td>
<td>.000</td>
<td>$19.90</td>
</tr>
<tr>
<td>VNGR-6M031</td>
<td>.031</td>
<td>.090</td>
<td>.000</td>
<td>$19.73</td>
</tr>
<tr>
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<td>.100</td>
<td>.000</td>
<td>$19.61</td>
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<tr>
<td>VNGR-6M047</td>
<td>.047</td>
<td>.130</td>
<td>.000</td>
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<tr>
<td>VNGR-6M062</td>
<td>.062</td>
<td>.160</td>
<td>.000</td>
<td>$19.31</td>
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<tr>
<td>VNGR-6M078</td>
<td>.078</td>
<td>.200</td>
<td>.000</td>
<td>$19.17</td>
</tr>
<tr>
<td>VNGR-6M078*</td>
<td>.078</td>
<td>.200</td>
<td>.000</td>
<td>$21.12</td>
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<tr>
<td>VNGR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.000</td>
<td>$19.02</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>
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<td>.050</td>
<td>.000</td>
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</tr>
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<td>.130</td>
<td>.000</td>
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<tr>
<td>VTGR-6M078</td>
<td>.078</td>
<td>.200</td>
<td>.000</td>
<td>$19.47</td>
</tr>
<tr>
<td>VTGR-6M093</td>
<td>.093</td>
<td>.200</td>
<td>.000</td>
<td>$19.34</td>
</tr>
</tbody>
</table>
# 8mm 35° SERIES TOOLING INSERTS

## SPARE PARTS

<table>
<thead>
<tr>
<th></th>
<th>SCREW 3.20-095</th>
<th>WRENCH T-10</th>
<th>$3.00 EACH</th>
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</thead>
</table>

## FRONT TURN

<table>
<thead>
<tr>
<th>RIGHT HAND SHOWN</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.H. INSERT NO.</td>
<td>PRICE</td>
<td>INCH MM</td>
<td>INCH MM</td>
</tr>
<tr>
<td>VFTR-8M040</td>
<td>$17.80</td>
<td>.156 3,18</td>
<td>.300 7,62</td>
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<tr>
<td>VFTR-8M045</td>
<td>$19.08</td>
<td>.156 3,18</td>
<td>.300 7,62</td>
</tr>
<tr>
<td>*VFTRB-8M040</td>
<td>$19.08</td>
<td>.156 3,18</td>
<td>.300 7,62</td>
</tr>
<tr>
<td>*VFTRB-8M045</td>
<td>$20.36</td>
<td>.156 3,18</td>
<td>.300 7,62</td>
</tr>
</tbody>
</table>

*WITH CHIP CONTROL

## BACK TURN

<table>
<thead>
<tr>
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<th>WIDTH</th>
<th>DEPTH</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.H. INSERT NO.</td>
<td>PRICE</td>
<td>INCH MM</td>
<td>INCH MM</td>
</tr>
<tr>
<td>VBTR-8M308</td>
<td>$19.08</td>
<td>.125 3,18</td>
<td>.300 7,62</td>
</tr>
<tr>
<td>VBTR-8M306</td>
<td>$19.19</td>
<td>.093 2,36</td>
<td>.300 7,62</td>
</tr>
<tr>
<td>VBTR-8M305</td>
<td>$19.34</td>
<td>.078 1,98</td>
<td>.250 6,35</td>
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<tr>
<td>VBTR-8M304</td>
<td>$19.48</td>
<td>.062 1,57</td>
<td>.190 4,83</td>
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</tbody>
</table>

## PLUNGE & TURN

<table>
<thead>
<tr>
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<th>DEPTH</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>R.H. INSERT NO.</td>
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<td>INCH MM</td>
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<tr>
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<td>.093 2,36</td>
<td>.300 7,62</td>
</tr>
<tr>
<td>VTGR-8M078</td>
<td>$19.34</td>
<td>.078 1,98</td>
<td>.250 6,35</td>
</tr>
<tr>
<td>VTGR-8M062</td>
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<td>.050 1,27</td>
</tr>
</tbody>
</table>

*WITH CHIP CONTROL

## OMNITURN’S 8MM BAR

| 5/8" Shank | $195.00 | 5/8" Shank |

---

---
8mm 35° SERIES TOOLING INSERTS

THREADING 60°

RIGHT HAND SHOWN

<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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<tbody>
<tr>
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<td>.062</td>
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<td>.250</td>
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<tr>
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<td>.190</td>
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</table>

CUT-OFF

RIGHT HAND SHOWN

<table>
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<th>DEPTH</th>
<th>A°</th>
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</thead>
<tbody>
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<td>3,18</td>
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<tr>
<td>VCOR-8M156</td>
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<td>VCOR-8M153</td>
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<td>15°</td>
</tr>
</tbody>
</table>

GROOVING

RIGHT HAND SHOWN

<table>
<thead>
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<th>R.H. INSERT NO.</th>
<th>PRICE</th>
<th>WIDTH</th>
<th>DEPTH</th>
<th>RADIUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VNGR-8M125</td>
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<td>.125</td>
<td>3,18</td>
<td>.300</td>
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<tr>
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<td>.062</td>
<td>1,57</td>
<td>.250</td>
</tr>
<tr>
<td>VNGR-8M047</td>
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<td>.047</td>
<td>1,19</td>
<td>.190</td>
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<td>$19.31</td>
<td>.040</td>
<td>1,00</td>
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<tr>
<td>VNGR-8M031</td>
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<td>.031</td>
<td>.79</td>
<td>.080</td>
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</table>

THREAD FORM IS CENTRALLY LOCATED

OmniTurn’s 8mm Bar $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
1/2” square shank - 3.5” overall length

STANR-085-V

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).
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

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

• 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

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

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]

ATTENTION - SWISS MACHINE USERS...

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
Indexable tools for small parts under .200” (5mm) diameter

CSV series

Features:
- The best tool for small parts under .200” (5mm) diameter
- Five types of inserts, front turning, back turning, cut off, grooving, and threading all fit one toolholder

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

Specs: 5/8” shank

<table>
<thead>
<tr>
<th>Work material</th>
<th>Speed (SFM)</th>
<th>Feed (IPR)</th>
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<tbody>
<tr>
<td>Stainless steel</td>
<td>16 ~ 160</td>
<td></td>
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<tr>
<td>Free-cutting steel</td>
<td>16 ~ 230</td>
<td>0.0002 ~ 0.002</td>
</tr>
<tr>
<td>Non-ferrous steel</td>
<td>16 ~ 260</td>
<td></td>
</tr>
</tbody>
</table>

Sharp Cutting Edge
High Precision

Cutoff chip breaker in bar
Cutoff in bar
Front turn chip breaker in bar
Front turn in bar
Groove in bar

VM1 coating maintains sharp cutting edge without losing wear resistance and thermal shock resistance.

Recommended for: Stainless, Steels, Alloy steels, Micro machining applications

Color: Silver

TiCN thin coated layer

VM1 provided stable dimension and micro-finish and showed five times longer tool life than competitor's.
## Multi series

### Front Turning

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
<th>Dimensions Inch (mm)</th>
<th>Price Each</th>
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<tbody>
<tr>
<td>CSVF11FR/V-M</td>
<td>No</td>
<td>Max. Machining depth: -</td>
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<tr>
<td>CSVF11FR/VB-M</td>
<td>Yes</td>
<td>Edge Shape: .006 (0.15) x 2°</td>
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<tr>
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### Back Turning

<table>
<thead>
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<tbody>
<tr>
<td>CSVB11FR/V</td>
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<td>Cutting width: .039 (1.00)</td>
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### Cut Off

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Chip breaker</th>
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<th>Price Each</th>
</tr>
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<tbody>
<tr>
<td>CSVC11FR/V07</td>
<td>No</td>
<td>Max. cut-off depth: .079 (2.0)</td>
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<tr>
<td>CSVC11FR/V10</td>
<td>No</td>
<td>Max. cut-off depth: .098 (2.5)</td>
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### Threading

<table>
<thead>
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<th>Item Number</th>
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<tbody>
<tr>
<td>CSVT11FR/P60-035-A</td>
<td>No</td>
<td>Pitch: .088 (0.2) ~ .020 (0.5)</td>
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<td>CSVT11FR/P60-035-B</td>
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<td>Tool Nose Radius: .001 (0.03) MAX</td>
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### Grooving

<table>
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</table>
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 $2.35
Turning TPCG-3205-CG5 Left Handed Turning w/.007 TNR $15.95 TPGH-321-CG5 Left Handed Turning w/.015 TNR $14.95 Starter kit, includes one bar and 10 inserts LH bar, (5) TPGH-320, (5) TPGH-321 $293.25

THREADING INSERT

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

T/T Tool Holder only $135.00 T/T Starter Kit $270.00

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 $14.90 ea
Turning insert for T/T Tool (sold in box of 10), 2 edged, coated, .007” TNR
Turning OMTN-015 $12.90 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**

<table>
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<tr>
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</table>

Iscar 11/16" x 1/16" Cutoff Blade.............$132.00

**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 .........$109

---

**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.................$850.00

**Iscraf**

---

**Hex - Inch**

<table>
<thead>
<tr>
<th>Hex</th>
<th>Flats</th>
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<td>.1895</td>
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<td>.2525</td>
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**Square - Inch**

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<th>Price</th>
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<tbody>
<tr>
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<tr>
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<td>.1582</td>
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<td>SQ00-5/32</td>
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<td>9/32</td>
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<td>7/32</td>
<td>.2212</td>
<td>11/32</td>
<td>SQ00-7/32</td>
<td>$58.00</td>
</tr>
</tbody>
</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.

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

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.

Model 350 - 3 Inch - 3 jaw (.060” opening) $3,195.00 (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 C of spindle

Model 450 - 4 Inch - 3 jaw (.100” opening) $3,295.00 (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

$3,195.00 $3,295.00
<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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<tr>
<td>B204</td>
<td>26</td>
<td>.19”</td>
<td>.13”</td>
<td>8000</td>
</tr>
<tr>
<td>N04</td>
<td>No</td>
<td>.19”</td>
<td>.13”</td>
<td>6000</td>
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<td>NT04</td>
<td>No</td>
<td>.19”</td>
<td>.13”</td>
<td>6000</td>
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### B204

**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

$3,495.00

### N04

**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

$2,995.00

### NT04

**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

$2,595.00
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.*

<table>
<thead>
<tr>
<th>Model</th>
<th>Cost</th>
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<tbody>
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<td>$170.00</td>
</tr>
</tbody>
</table>

*Drawtube Spindle Plug - $59*

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 without 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” $1,650.00

**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] $2,400.00

**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 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 and out a hole in the back right corner.

**NEW LIVE TOOLING FOR GANG TOOLED LATHES**

- 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.

**IN-LINE**:
- $3000
  - Change over to Vertical - $700
  - Change over to Horizontal - $500
  - Horizontal: $2800

**Change over to Vertical or In-Line - $700**
- Vertical: $3000
  - Change over to In-Line - $700
  - Change over to Horizontal - $500

**LIVE TOOL KITS**

**Cable Drive System**

<table>
<thead>
<tr>
<th>Drive</th>
<th>Voltage</th>
<th>Connector</th>
<th>HP</th>
<th>RPM</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>MiniFix</td>
<td>200V 1 phase</td>
<td>Din-10</td>
<td>1/2</td>
<td>875-3300</td>
<td>$960.00</td>
</tr>
<tr>
<td>Omniture CD</td>
<td>200V 1 or 3 phase</td>
<td>Din-10</td>
<td>1</td>
<td>400-7000</td>
<td>$1,800.00</td>
</tr>
<tr>
<td>Omniture CDVS</td>
<td>200V 1 or 3 phase</td>
<td>Din-10</td>
<td>1</td>
<td>400-7000</td>
<td>$1,800.00</td>
</tr>
</tbody>
</table>

**Cable Drive, BEWI-4 Spindle**
- NA7 VS w/ NA7 $2,295.00
- CDVS w/ NA7 $2,950.00
- NA12 VS w/ NA12 $2,495.00
- CDVS w/ NA12 $3,150.00

**Cable Drive Precision System**
- NA7 VS w/ NA7 $2,950.00
- CDVS w/ NA7 $3,695.00
- NA12 VS w/ NA12 $3,150.00
- CDVS w/ NA12 $3,895.00

**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.

With Optional Inverter Drive...$1,950.00
Without Optional Inverter Drive...$1,200.00
MACHINE TOOL SPINDLE COMBINATIONS

E2530 SERIES COMBINATION
30,000 MIN (RPM) - 92 WATTS

UNIT SPECIFICATION

Model | NE236
---|---
Power source | AC 115V/230V (Switchable type) 50-60 Hz
Power consumption | 92W
Weight | 7lb. 14.99 oz.

MOTOR & SPINDLE

Motor | EM25-5000- J4
Spindle | NR-303
Speed | 5,000 – 30,000 min -1 (rpm)*
500 min -1 (rpm) : for centering
Weight | 1 lb. 0.40 oz. (w/o motor cable)
Dimensions | Ø 0.98" x 7.41"

E2530, NR-2351 COMBINATION EXAMPLE

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>MODEL</th>
<th>PRODUCT</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8602</td>
<td>NE236</td>
<td>Control Unit</td>
<td>$1,083.00</td>
</tr>
<tr>
<td>AS88322</td>
<td>EM25-5000-J4</td>
<td>Brushless Motor</td>
<td>$1,016.00</td>
</tr>
<tr>
<td>AS41830</td>
<td>NR-303</td>
<td>Spindle</td>
<td>$482.00</td>
</tr>
<tr>
<td>4504</td>
<td>AL-C1204</td>
<td>Air Line Kit</td>
<td>$350.00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>$2,931.00</td>
</tr>
</tbody>
</table>

*Maximum Speed (rpm) with the NE236 control Unit
30,000 min -1 (rpm) with Air & 25,000 min -1 (rpm) without Air.

NSK Omni-Live Tool Holder -
Part # Omni 590 - 1/2" center height - $165

E2550 SERIES COMBINATION
50,000 MIN (RPM) - 92 WATTS

UNIT SPECIFICATION

Model | NE145
---|---
Power source | AC 115V/230V (Switchable type) 50-60 Hz
Power consumption | 92W
Weight | 7lb. 14.99 oz.

MOTOR & SPINDLE

Motor | EM25N-5000- J4
Spindle | NR-2351
Speed | 5,000 – 50,000 min -1 (rpm)*
500 min -1 (rpm) : for centering
Weight | 1 lb. 0.40 oz. (w/o motor cable)
Dimensions | Ø 0.98" x 7.41"

E2530, NR-2351 COMBINATION EXAMPLE

<table>
<thead>
<tr>
<th>CAT. NO.</th>
<th>MODEL</th>
<th>PRODUCT</th>
<th>PRICE</th>
</tr>
</thead>
<tbody>
<tr>
<td>8602</td>
<td>NE145</td>
<td>Control Unit</td>
<td>$1,649.00</td>
</tr>
<tr>
<td>AS88322</td>
<td>EM25-5000-J4</td>
<td>Brushless Motor</td>
<td>$1,016.00</td>
</tr>
<tr>
<td>AS41830</td>
<td>NR-2351</td>
<td>Spindle</td>
<td>$789.00</td>
</tr>
<tr>
<td>4504</td>
<td>AL-C1204</td>
<td>Air Line Kit</td>
<td>$350.00</td>
</tr>
<tr>
<td>Total</td>
<td></td>
<td></td>
<td>$3,804.00</td>
</tr>
</tbody>
</table>

*Maximum Speed (rpm) with the NE236 control Unit
30,000 min -1 (rpm) with Air & 25,000 min -1 (rpm) without Air.

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

<table>
<thead>
<tr>
<th>CAT No.</th>
<th>Model</th>
<th>Outside Diameter</th>
<th>Speed Reduction Ratio</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS81826P</td>
<td>ARG-H2504N</td>
<td>Ø1.0” (Ø25.4mm)</td>
<td>¼”</td>
<td>$192.00</td>
</tr>
<tr>
<td>AS81827P</td>
<td>ARG-C2504N</td>
<td>Ø0.98” (Ø25MM)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
E2530 SERIES COMBINATION
30,000 MIN (RPM) - 92 WATTS

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

2. Spindle
   - Model: NR403E
   - 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
   - Price: $881.00

3. 90° ANGLE SPINDLE
   - 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
   - Price: $782.00

4. Motor Cord 13'
   - EMCD-3000 4M (connector cap provided)
   - Price: $370.00

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: AC115V
- Motor Speed: 5,000-60,000 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"
- Price: $2,025.00

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: AC115V
- 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"
- Price: $1,334.00
GT-75 / GT-JR DUNHAM COLLET CLOSERS

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

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Part Number</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dunham Collet Closer w/ Drawtube</td>
<td>693-08-200</td>
<td>$1,895</td>
</tr>
<tr>
<td>Dunham Drawtube Only</td>
<td>693-08-211</td>
<td>$225</td>
</tr>
<tr>
<td>Drawtube Plug Spindle</td>
<td>633-11-001</td>
<td>$59.00</td>
</tr>
<tr>
<td>Mac Double Solenoid Valve Only Collet Open / Collet Close</td>
<td>997-15-207</td>
<td>$98.00</td>
</tr>
<tr>
<td>Anti Rotation Bracket</td>
<td>693-01-001</td>
<td>$39</td>
</tr>
<tr>
<td>Air Lubricator Assembly</td>
<td>697-11-003</td>
<td>$95</td>
</tr>
<tr>
<td>Air Fittings</td>
<td></td>
<td>$5.00/each</td>
</tr>
<tr>
<td>Draw Tube Lock</td>
<td>693-08-210</td>
<td>$59</td>
</tr>
<tr>
<td>Dunham collet closer rebuilt kit, includes seals and bearings.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dunham rebuild kit</td>
<td>693-09-103</td>
<td>$225</td>
</tr>
<tr>
<td>Dunham bearings only</td>
<td>693-08-202</td>
<td>$170</td>
</tr>
<tr>
<td>Dunham seal kit with drawtube seal</td>
<td>693-09-102</td>
<td>$55</td>
</tr>
</tbody>
</table>
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
- Orientation
- Change over time for similar parts
- Concentricity
- Part consistency
- Chips
- Finished part unloading
- Work holding
- Fault resets and automation
- Vibrationary bowl interface
- Documentation for operator use, setup, and troubleshooting
- Schematics and spare parts lists

<table>
<thead>
<tr>
<th>3 second Load/unload</th>
<th>6 second Load/unload</th>
<th>3 second Load/unload</th>
<th>10 second Load/unload</th>
<th>8 second Load/unload</th>
</tr>
</thead>
<tbody>
<tr>
<td>Held on the OD, drilled 14 holes, bored the ID. Qualified the overall length</td>
<td>Held on the OD, Finished the radius on the face.</td>
<td>Held on the OD, Turn, Bore, Drill, Ramp Broach, Deburr.</td>
<td>One of a family of parts, load and unload without damaging finish 10 minute change over,</td>
<td>Thin sheet metal stamping. Work holding was an issue.</td>
</tr>
<tr>
<td>6 second Load/unload</td>
<td>5 second Load/unload</td>
<td>2.5 second Load/unload</td>
<td>6 second Load/unload</td>
<td>6 second Load/unload</td>
</tr>
<tr>
<td>Very simple track loader. Simple to build and setup</td>
<td>Universal pick and place that can be changed over in minutes</td>
<td>Turn radius on end, cross drill Dedicated loader from bowl</td>
<td>Simple track loader, adjustable and universal</td>
<td>Unloaded carefully, no marks on finished face</td>
</tr>
<tr>
<td>8 second Load/unload</td>
<td>3 second Load/unload</td>
<td>3.5 second Load/unload</td>
<td>4 second Load/unload</td>
<td>12 second Load/Load/Unload</td>
</tr>
<tr>
<td>End work on shafts, OmniZip with hopper holds 1000 parts.</td>
<td>Universal pick and place that can be changed over in minutes</td>
<td>On C axis machine, load off center, drill and tap one hole, drill other.</td>
<td>Loader for family of parts, fast load time, simple change overs.</td>
<td>Both sides of part was machined.</td>
</tr>
<tr>
<td>Bar fed by OmniZip</td>
<td>6 second Load/unload</td>
<td>6.5 second Load/unload</td>
<td>6 second Load/unload</td>
<td>8 second Load/Unload</td>
</tr>
<tr>
<td>Extruded stock loaded by rear end loader, 3 second cycle time per part</td>
<td>5,000 part run, OD thread only. Built loader in 2 days for almost off the shelf delivery</td>
<td>Family of parts done with simple loader. Change over time is only 5 minutes.</td>
<td>Unloading was critical. They could not touch one another.</td>
<td>Held on ID, turned entire OD .0003&quot; total all over.</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:** $8,500

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.

---

**VERTICAL CUT OFF**

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.

<table>
<thead>
<tr>
<th>Part</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OmniZip Vertical Cutoff</td>
<td>$6,500.00</td>
</tr>
</tbody>
</table>

For existing machine in field add ... $350.00

---

**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 $2,900

Drop shipped to end user, installation to be done by end user. $1,895

---

**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

---

**REVOLVING STOP**

This stop has a replaceable head, a 5/8” shank, and can be used with any of the fixed center height tool holders. The standard stop is supplied with a hardened 4140 head, 3/4” in diameter.

<table>
<thead>
<tr>
<th>Part</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Revolving Stop #RSS-00</td>
<td>$88.00</td>
</tr>
<tr>
<td>Spare Head - 3/4” diameter</td>
<td>$32.00</td>
</tr>
</tbody>
</table>

---

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

**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. ..............................................$255.00

**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! $195
Dunham Shield in GT ..................$325

Keep your spindle compartment clean and free of coolant and mess. Installs on Dunham collet closure without any drilling & tapping, NO modifications. This contains the coolant from both the back end of the collet closure and what comes out through the draw tube alignment pin. Quick easy & access for collet adjustment & maintenance. A rear shield keeps the coolant from dripping out the back of the machine. All coolant is returned to the machine.

Splash Guard for Attachments ...............$895.00

We have kits available for all styles of Hardinge. All versions install in minutes. Keep your shop clean and your operators dry.

Very Sensitive Low Pressure Draw Tube

When you want to hold sensitive parts with less than 200 lbs of force, with the Dunham Pneumatic Draw Tube it becomes unreliable below 10 psi (200 lbs of force). The sensitive Omniturn collet closure can be easily and repetitively configured to maintain exact collet pressure down to 15 lbs.

- Extremely low inertia
- Start & Stop - short cycles quicker
- Much less mass - will run at higher rpm with no vibration
- No bearings or seals to create heat. This system runs cool all day long at all speeds
- Easily retrofit able in the field to existing GT-75’s or GT-Jr’s. Once installed, change over between the Dunham and sensitive draw tube is only 10 minutes

$975.00
### Mounting feet for GT-75 and GT-Jr
- Feet - 4 per set 691-13-001 $69.00
- Feet with vibration pads - 4 per set 691-13-001-vibration $72.00

### Air Lubricator Assembly
- 697-11-003 $95.00

### Encoder Cable
- 697-09-002 $89.00
- 995-07-003 $69.00

### Dunham Collet closer draw tube only for GT-75 and GT-Jr
- 693-08-211 $225.00

### Watts regulator Assembly
- 997-11-101 $79.00

### Coolant pumps
- Standard 1/8 hp pump only 696-16-001 $240.00
- Mounting flange for pump 696-01-001 $34.00
- Heavy Duty 1/4 hp pump with mounting flange 696-16-001HD $495.00

### The Splash Guard System that is as easy to install and use as the OmniTurn!
- Headstock Only Guard Kit $250.00
- Replacement Lexan Guards $69.00
- Complete Set-up $695.00

### Ballscrews
- for all OmniTurn machines. Note: The screw must be cut to length for installation.
  - Ballscrew 992-08-011 $998.00
  - Ballscrew & thrust bearing 992-08-002 $1,175.00

### Thrust bearing assembly
- 992-08-003 $219.00

### 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 $435.00
  - X axis 12” travel - 21” long (520 mm) 992-08-005 $460.00
  - Z axis 5” travel - 10” long (280mm) 392-08-001 $435.00

### Bearing block trucks only - 2 per set 992-08-012 $249.00

### Motor Coupling
- 992-11-002 $55.00

### X-Axis Brake Piston
- 697-27-001 - $106

### Brake Bumper - $10.00

### Bellows cover - GT-75 and GT-Jr
- 692-11-001 $198.00

### Z axis way cover - Attachments
- 392-11-001 5” travel $25.00
- 392-11-002 8” travel $30.00

### Axis scales
- 992-04-002  Z axis scale $16.00
- 992-04-001  X axis scale $22.00

### Spindle bearings for:
- OmniTurn GT-75
- OmniTurn GT-Jr
- Hardinge HSL, DSM, DV-59
- HLV, DSMA, ASM
- 693-08-106 $495.00
- 693-08-105 - Nilos Seal $98.00
- Hardinge HC, AHC, HNC 693-08-107 $595.00

### Grease for spindle bearings 004026-221 $39.50

### Encoder encoder for all machines
- 995-16-005 $495.00

### Encoder belts
- Encoder belt - GT-75 (MX315) $14.00
- All attachments except HLV 993-21-001 $14.00
- Encoder belt - GT-JR (MX280) 593-21-001 $19.00
- HLV or HLV-H 093-21-001 $19.00
- Encoder pulley - encoder side Aluminum 995-22-001 (aluminum type) $65.00

### Encoder pulley - Spindle side
- GT-75 and GT-Jr 693-22-001 $65.00
- DSM, DV 193-22-001 $65.00
- HSL 193-22-001 $65.00
- HC, AHC, HNC 293-22-001 $65.00

### Axis motors
- All OmniTurn systems use the same axis motor.
- 995-16-100  - 1 year warranty $1,040.00

### OmniTurn Axis Amplifier
- 995-16-007 $79.00
- Core charge of $100 will be charged and credited back when the old amp is returned.

### Axis motor thermal overload
- Thermal overload Switch 995-15-010 $149.00
- Thermal Overload Element only - W43 $29.00

---

**Contact Information:**
- Telephone: (631) 694-9400
- Website: www.omni-turn.com
- Fax: (631) 694-9415
### Spindle drive belts

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle drive belt GT-75 / GT-Jr</td>
<td>633-21-001</td>
<td>$36.00</td>
</tr>
<tr>
<td>PolyV 310J10</td>
<td>$36.00</td>
<td></td>
</tr>
<tr>
<td>PolyV 290J10</td>
<td>$36.00</td>
<td></td>
</tr>
<tr>
<td>PolyV 360J10</td>
<td>$36.00</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle drive belt C axis cog type</td>
<td>663-21-001</td>
<td>$39.00</td>
</tr>
<tr>
<td>300H100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spindle drive belt - C axis - Herringbone type</td>
<td>693-21-001</td>
<td>$59.00</td>
</tr>
</tbody>
</table>

### LCD Upgrade monitor kit: includes LCD screen, mounting bracket and motherboard with on board video

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-09-104</td>
<td>$1,125.00</td>
</tr>
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</table>

### Replacement LCD Monitor

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-16-019</td>
<td>$430.00</td>
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</tbody>
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### Motherboard with memory, Processor

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-17-010</td>
<td>$595.00</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
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### Exchange - 90 day warranty

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td></td>
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</table>

### MC2B CARD - 995-17-004

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Keyboard

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-16-001</td>
<td>$325</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>• New Style</td>
<td></td>
</tr>
<tr>
<td>• Medical grade</td>
<td></td>
</tr>
<tr>
<td>• Sealed</td>
<td></td>
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</tbody>
</table>

### 12V relay

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>999-15-005</td>
<td>$24.00</td>
</tr>
<tr>
<td>Socket for relay - 999-15-006</td>
<td>$15.00</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>693-09-103</td>
<td>$225.00</td>
</tr>
<tr>
<td>693-08-202</td>
<td>$170.00</td>
</tr>
<tr>
<td>693-09-102</td>
<td>$55.00</td>
</tr>
<tr>
<td>693-09-102</td>
<td>$55.00</td>
</tr>
<tr>
<td>Retaining Ring Pliers</td>
<td>$39.00</td>
</tr>
</tbody>
</table>

### Control push buttons and switches:

- **Power on** button assembly
  - Yellow, illuminated, maintained
  - Code: 995-12-101
  - Price: $39.00

- **Servo On** button assembly
  - Blue, illuminated, momentary
  - Code: 995-12-102
  - Price: $39.00

- **Cycle start / on** indicator assembly
  - Green, illuminated, momentary
  - Code: 995-12-106
  - Price: $39.00

- **Motion stop button** assembly
  - Red, illuminated, momentary
  - Code: 995-12-105
  - Price: $39.00

- **Spindle drive Auto/Off** switch
  - Black, 2 pos. selector, maintained
  - Code: 995-12-104
  - Price: $39.00

- **Spindle speed override** dial assembly
  - Speed potentiometer
  - Code: 995-12-107
  - Price: $148.00

- **Emergency stop** push button
  - Red, push to lock, twist release
  - Code: 995-12-103
  - Price: $39.00

### Operator station push buttons and switches:

- **Operator station push button**
  - Code: 998-00-000
  - Price: $450.00

### Collet close push button assembly

- Red, momentary
  - Code: 998-12-101
  - Price: $25.00

### Collet open push button assembly

- Green, momentary
  - Code: 998-12-102
  - Price: $25.00

### Cycle start palm button assembly

- Black, momentary
  - Code: 998-12-103
  - Price: $47.00

### Emergency stop push button

- Red, maintained, twist to unlock
  - Code: 998-12-104
  - Price: $39.00

### Grease gun kit

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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</thead>
<tbody>
<tr>
<td>GGK</td>
<td>$59.00</td>
</tr>
<tr>
<td>Grease only - GGG</td>
<td>$10.00</td>
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### Hard Drive

<table>
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<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>995-09-003</td>
<td>$125.00</td>
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### USB Portable External Floppy Drive Disk

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
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<tbody>
<tr>
<td></td>
<td>$29.50</td>
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</table>

### Internal Floppy Drive Disk

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$29.00</td>
</tr>
</tbody>
</table>

### Spindle drive inverters

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>GPD 315</td>
<td>$795.00</td>
</tr>
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</table>

### Spindle Nose Cover

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>693-01-003</td>
<td>$98.00</td>
</tr>
</tbody>
</table>

### Pins, sockets, cable jacket and plugs

- **Pins:** $0.95
- **PolyTuff Jacket:** $2.50/foot
- **Sockets:** $0.95
- **Extractor:** $9.00
- **14 pin male connector:** $9.00
- **14 pin female connector:** $9.00

### Braking resistors

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>914-15-001</td>
<td>$168.00</td>
</tr>
</tbody>
</table>

### Mac single solenoid - no manifold

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>997-15-008</td>
<td>$80</td>
</tr>
</tbody>
</table>

### Mac single solenoid - with manifold

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>997-15-204</td>
<td>$105</td>
</tr>
</tbody>
</table>

### Mac double solenoid - no manifold

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>997-15-207</td>
<td>$98</td>
</tr>
</tbody>
</table>

### Mac double solenoid - with manifold

<table>
<thead>
<tr>
<th>Code</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>997-15-003</td>
<td>$129</td>
</tr>
</tbody>
</table>

### 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
ADDITIONAL M FUNCTIONS

Additional I/O can be added to machines with normal spindle drives or C axis. The PLC is supplied on a panel with marked terminals.

The OmniTurn control can read inputs and set outputs on the PLC. Simple M functions can be configured with programs configurable by the end user.

Simple automatic loaders: The PLC and configuration of M functions can be used to drive simple automatic loaders. Use a separate PLC and contact the factory for information on interfacing with the OmniTurn.

Magazine Barfeed: The PLC kit is perfect for interfacing the OmniTurn to a magazine bar feed. The OmniTurn has built in a conditional M function that is used for an end of bar sequence.

M functions can be configured by the end user. Documentation is supplied in the manual to assist customers with this. A total of 10 M functions can be created and used in all programs on the machines.

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:
- Pulleys, belt, and motor adapter. $850.00

Parts and installation - TBD

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

---

<table>
<thead>
<tr>
<th>G4 CONTROL REPLACEMENT PARTS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5AXMC CARD</strong></td>
</tr>
<tr>
<td>995-49-011</td>
</tr>
<tr>
<td>$895 with exchange</td>
</tr>
<tr>
<td><strong>MOTHERBOARD</strong></td>
</tr>
<tr>
<td>995-17-015</td>
</tr>
<tr>
<td>$595 (with exchange)</td>
</tr>
<tr>
<td><strong>POWER SUPPLY</strong></td>
</tr>
<tr>
<td>995-16-020</td>
</tr>
<tr>
<td>$98</td>
</tr>
<tr>
<td><strong>AXIS AMP</strong></td>
</tr>
<tr>
<td>995-16-007</td>
</tr>
<tr>
<td>$585</td>
</tr>
<tr>
<td>PLUS $100 CORE CHARGE</td>
</tr>
<tr>
<td><strong>WORK LAMP KIT (INCLUDES BRACKETS)</strong></td>
</tr>
<tr>
<td>Instant start, dual fluorescent</td>
</tr>
<tr>
<td>491-09-002</td>
</tr>
<tr>
<td>$155</td>
</tr>
<tr>
<td><strong>DIRECT MOUNT ENCODER 5HP</strong></td>
</tr>
<tr>
<td>1/4” SHAFT - 995-16-105</td>
</tr>
<tr>
<td>$325</td>
</tr>
<tr>
<td><strong>DIRECT MOUNT ENCODER 5HP</strong></td>
</tr>
<tr>
<td>3/8” SHAFT - 995-16-103</td>
</tr>
<tr>
<td>$325</td>
</tr>
<tr>
<td><strong>Control On/Off Switch Assembly</strong></td>
</tr>
<tr>
<td>995-12-201</td>
</tr>
<tr>
<td>$40</td>
</tr>
<tr>
<td><strong>Collet Open/Close Assembly</strong></td>
</tr>
<tr>
<td>995-12-202</td>
</tr>
<tr>
<td>$40</td>
</tr>
</tbody>
</table>
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 INFEEED 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 OmniteMate 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 OmniteMate can also re-orient a part for a second operation.

Safety light curtain

The OmniteMate 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 OmniteMate and machine controls. If the curtain is breached, the system stops.

Vertical Nest Rocker Nest

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 Omniteurn 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: $2,750.00

Installation: 4 hours per unit

NOTES

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(631) 694-9400  www.omni-turn.com  Fax (631) 694-9415  39
OmniTurn

Sales Headquarters
40 Allen Blvd.
Farmingdale, NY 11735
United States
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.