OmniTurn Richlin Machinery

Tooling - Accessories - Parts

GT-75 CNC Lathes



***\$45,295** COMPLETE (When paid in full at time of order)

C-axis option add \$3,300

Fast..Precise..Affordable



We at Richlin Machinery represent many manufacturers:

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









Richlin Machinery

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

Prices are subject to change without notice.

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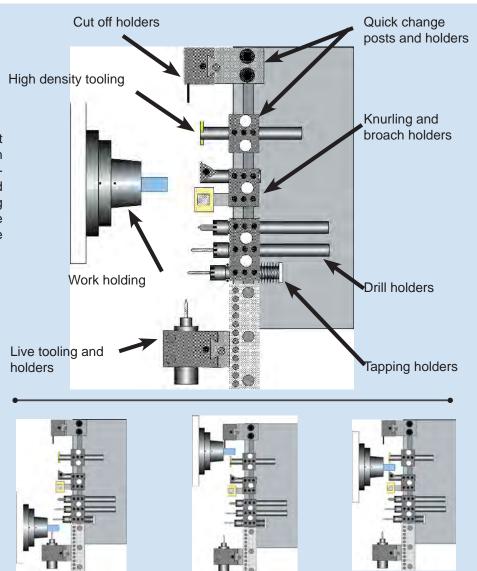
OmniTurn

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

Tooling layout assistance

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

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



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

Work Holding Secondary Operations - Not Always Easy

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



STARTER TOOLING KIT

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 every-thing.

Tool Plate Center Heights:

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

Attachment vs. GT-75 Kits:

Our entire range of tool holders are engi-neered for optimum performance.

Substitutions are Available:

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

GT-75 or Attachment

Tooling Kit - 1/2" center height

Tool Post-W TF-625

Cutoff Blade holder-11/16" MultiBar Starter Kit

Iscar Cutoff w/inserts Set of 7 Bushings 5/8"od

(2) Omni-115L Blocks Omni-205 Block OMNI-305 Block Omni-805PFB Block

(2) ER-16 Holders ER-16 Wrench **ERC-16 Collet Set**

Tool Kit \$3,000.00

Optional: Omnitap and Omni-105 tool block \$425.00

Ask about kits for 3/8" center height machines.



www.omni-turn.com



Tool Post - W

Tool Post - W

\$250.00

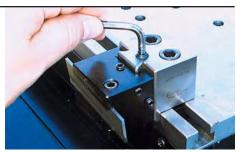


Tool Post Extended - W

Tool Post Extended - W \$275.00 Includes T-nut and bolts

HEAVY DUTY W TOOL POSTS

- •The W type tool post has a wedge action clamp that pulls the tool holder against the face of the post. This wedge type clamp is much stronger than other tool post's that use a setscrew. The W type holder is strongly recommended when there will be heavier cutting. Turning and cutoff tools can take deeper cuts with better finishes and longer life. This post also works much better for interrupted cuts. The "hammering" of the tool does not loosen the wedge clamp.
- •The wedge clamp holders also have excellent repetition in height. The clamping of the tool does not move the tool up or down.
- •The locking action is done from above. The W type posts can be placed on the tooling plate directly against one another. No space is used on the tooling plate when having to get at the locking set screw.



THE LOCKING WEDGE IS DRIVEN BY A SCREW FROM ABOVE



HOLDERS PLACED NEXT TO ONE ANOTHER WITHOUT INTERFERENCE

Includes T-nut and bolts

Tool Post Risers:

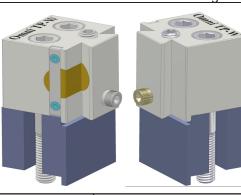
Raise your Toolpost-W to work with live tooling for milling and slotting. The riser is hardened and ground so it gives the best support, square and true.

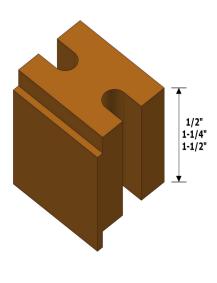
Tool Post Riser 1/2" Tall \$115.00

Tool Post Riser 1-1/4" Tall \$135.00

Tool Post Riser 1-1/2" Tall \$145.00

"Risers can be stacked to various heights"





Оми 5/8" OD Split Bushings

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

| | | _ | |
|----------------|-------------|---|---------|
| | 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 Omni*Turn* tooling. These nuts help with quick change overs.

| TNUT-1 | Single hole T-nut | \$13.00 |
|--------|----------------------|---------|
| TNUT-P | .900 between centers | \$18.00 |
| TNUT-B | 1.1 between centers | \$18.00 |
| TNUT-A | 2.2 between centers | \$19.00 |

Uses 3/8-16 bolts





OFFSET POST ASSEMBLY

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

This holder is great for:

Cutting off - Turning - Live tools

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



OFFSET ASSEMBLY
BACK MOUNTED



Offset Post W adapter



OFFSET ASSEMBLY
REAR MOUNTED



Offset Post Assembly Rail

Call for options and availability

Tool Holders for OmniTurn Posts



Omni Turnon and



Now holds 3/4" tools

Omni TF625

\$189.00

Omni L type Right

\$189.00

Omni L type Left

\$189.00



Omni 2 Gang



Omni 3 Gang



\$189.00

Omni Universal

\$129.00



\$189.00





W-Extension Long Extends tool 1.730" \$235.00

W-Extension Short Extends tool 1.100" \$190.00



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

Omni-500L

\$185.00



Omni Soft Blank

\$95.00

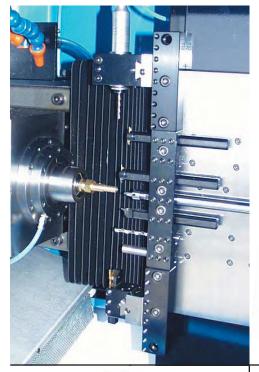


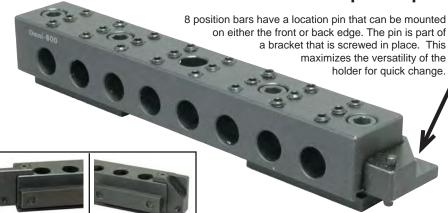
Omni Cutoff - Front Mount

\$189.00

QUICK CHANGE OVER HOLDERS

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







Includes T-nut and bolt

8 STATION - PIN FRONT OR BACK

Omni-800PFB - 5/8" bore, 3/8" center height \$395.00 Omni-805PFB - 5/8" bore, 1/2" center height \$395.00 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

\$175.00 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 hight Omni-2075 3/4" bore, 1/2" center height

\$185.00 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

\$195.00 each Includes T-nut and bolt



1 station No lip

Omni-101 5/8" bore, 3/8" center height Omni-115 5/8" bore, 1/2" center height Omni-1175 3/4" bore, 1/2" center height

175.00 each

Includes T-nut and bolt





1 STATION - HEAVY DUTY

Omni-100 - 5/8" bore, 3/8" center height
Omni-105 - 5/8" bore, 1/2" center height
Omni-1075 - 3/4" bore, 1/2" center height

Omni 5-100 - 1.000" bore, 1/2" center height

\$185.00 \$185.00 \$185.00

\$185.00

Includes T-nut and bolt



8 station - Moveable pin

Omni-800 - 3/8" center hight Omni-805 - 1/2" center height

5/8" bores With Llp

\$395.00 each

Includes T-nut and bolt



7 STATION - with lip

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

\$350.00 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 \$255.00 Live In-Line - 36mm holder







30MM LIVE TOOL HOLDER
ATTACHES RIGHT TO
TOOLING PLATE.
HOLDS LIVE TOOLS
HORIZONTALY.
\$395.00
Reducer bushing page 9

Live Tool Vertical Holders



Live Vertical LV-30 Live Vertical LV-40 \$255.00 \$265.00

Live Tool Horizontal Holders



Live Horizontal LH-30 \$255.00 Live Horizontal LH-36 \$265.00 Live Horizontal LH-40 \$275.00

LIVE TOOL HOLDER W/ HOLD DOWN CLAMP



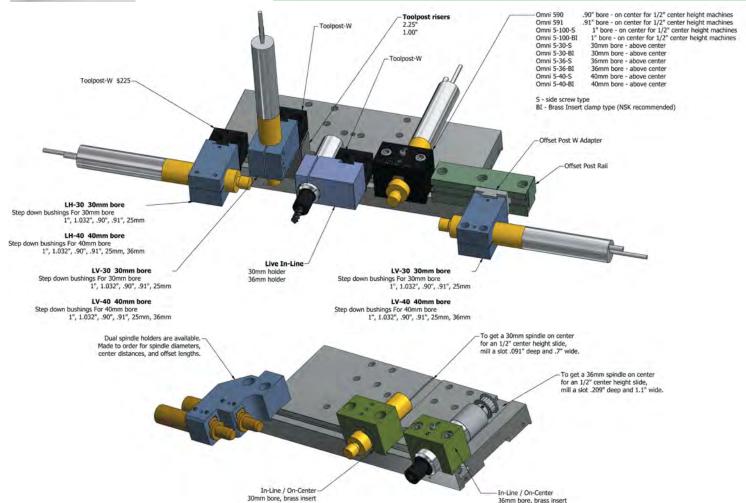
This holder is great for when you need to hold a 1" OD live tool on center with the spindle

Live In-Line - 1" bore \$240.00 5-30- 30mm bore \$250.00

5-36mm no clamp \$235.00 5-40mm no clamp \$245.00

Includes T-nut and bolt

The 30mm, 36mm and 40mm holders you can modify your tooling plate to hold these on center with the spindle.



REDUCER BUSHINGS



1" / 30mm \$140.00 1.32" / 30mm \$140.00 .900" / 30mm \$140.00 .91" / 30mm \$140.00 3/4" / 30mm \$140.00 36mm / 40mm \$140.00 25mm / 30mm \$140.00

Dual NSK spindle Holder \$495.00 1" bores with hold down clamps





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 \$189.00

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 shan | ık- 5/8" | \$96.00 |
|-----------------|----------|---------|
| .187" | PBG0187 | \$62.00 |
| .250" | PBG0250 | \$62.00 |
| .312" | PBG0312 | \$62.00 |
| .375" | PBG0375 | \$62.00 |
| .437" | PBG0437 | \$62.00 |
| .500" | PBG0500 | \$62.00 |
| .562" | PBG0562 | \$62.00 |
| .625" | PBG0625 | \$62.00 |
| .687" | PBG0687 | \$62.00 |
| .750" | PBG0750 | \$62.00 |
| | | |

Metric sizes available call for sizes

Straight Tooth Knurls -



30° DIAGONAL Knurls - RH or LH





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





30° Diamond Knurls - Male or Female 12, 25 (90°) 16, 33 (90°) 20, 41 (90°) 25, 51 (90°) 30, 61 (90°) 40, 81 (90°) 50,102 (70°) 80,163 (70°) \$27.00 ea HSS \$32.95 ea Cobalt

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 \$43

\$437.00



ACCUTRAK'S HOLDER IS EASY TO SET UP AND ADJUST FOR SIZE

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

OMNITURN ER 16 & 11 COLLET SYSTEM

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

\$22.00 \$28.00

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

INDIVIDUAL COLLETS -----

| SIZE | FRACTIONAL | ER-11 | PRICE | SIZE | FRACTIONAL | ER-16 | PRICE |
|---------|------------|-----------|---------|---------|------------|-----------|---------|
| .020039 | | OTC11-001 | \$30.00 | .024039 | | OTC16-001 | \$30.00 |
| .039059 | | OTC11-002 | \$25.00 | .063078 | | OTC16-002 | \$25.00 |
| .059079 | 1/16 | OTC11-003 | \$25.00 | .103118 | | OTC16-003 | \$25.00 |
| .079098 | 3/32 | OTC11-004 | \$25.00 | .118157 | 1/8, 5/32 | OTC16-004 | \$25.00 |
| .098118 | | OTC11-005 | \$25.00 | .157196 | 3/16 | OTC16-005 | \$25.00 |
| .118138 | 1/8 | OTC11-006 | \$25.00 | .197236 | 7/32 | OTC16-006 | \$25.00 |
| .138157 | 5/32 | OTC11-007 | \$25.00 | .236275 | 1/4 | OTC16-007 | \$25.00 |
| .157177 | | OTC11-008 | \$25.00 | .276315 | 9/32, 5/16 | OTC16-008 | \$25.00 |
| .177197 | 3/16 | OTC11-009 | \$25.00 | .315354 | 11/32 | OTC16-009 | \$25.00 |
| .197217 | | OTC11-010 | \$25.00 | .354393 | 3/8 | OTC16-010 | \$25.00 |
| .217236 | 7/32 | OTC11-011 | \$25.00 | | | | |
| .236256 | 1/4 | OTC11-012 | \$25.00 | | | | |
| .256276 | | OTC11-013 | \$25.00 | | | | |



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



EASIER TOOL **CHANGES IN POSITION**



\$669.00

COLLET SETS

ER-11 Set (13 piece) 020" - .276"

\$295.00

COLLET SETS

ER-16 Set (10piece) .020" - .394"

OMNITURN OTC-16 FLOATING TAP HOLDER (OMNITAP)

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

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

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

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

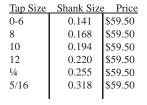


The tap holder will fit in all of the tooling bars with a 5/8" bore. Uses ER-16 collets



ER16 TAP COLLETS

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





SELF RELEASING TAP HOLDER



Tap Holder #TH00 **Bushings for Tap Holders**

\$225.00

Tap Shank Price Tap Size Part # Dia #0 thru #6 1001 \$51.50 .141 \$51.50 #7-#8 - 5/32 .168 1002 #9-#10 - 3/16 .194 1003 \$51.50 #12 - 7/32 .220 1004\$51.50 #14 - 1/4 .255 1005 \$51.50 9/32 .286 1006 \$51.50 5/16 \$51.50 318 1007 11/32 349 1008 \$51.50 \$55.00 3/8 381 1009 13/32-7/16 1010 \$55.00

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

ER-16 Axial - Float Tension/Compression Tap Holder

Axial-float/tension/compression type for C.N.C. milling machines and lathes

\$395.00

Compensates for machine feed and tap pitch variance. Floating mechanism compensates for misalignment

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

3/4" Shank Diameter

1.638" Projection

Use with Omni-1075 Heavy duty Tool Holder 3/4" bore 1/2" center height \$185.00

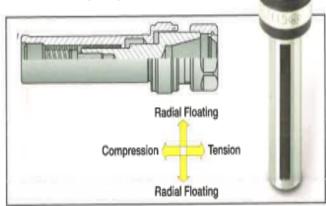


Slotted Type E ER16 Collet Wrench \$20.00



Radial float, axial movement: tension/compression type for CNC milling machine, lathes with reversing motors and also for rigid tapping especially for tough materials.

 Radial float, tension/compression, is indicates as per specific ER size







SUPER GRIP 5C COLLETS.....\$195

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.

ER-16 TAP COLLETS \$59.50

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

| Tap size | Shank Diameter |
|-------------|----------------|
| 1/8" - #6 | .141" |
| 5/32" - #8 | .168" |
| 3/16" - #10 | .194" |
| 7/32" - #12 | .220" |
| 1/4" | .255" |
| 5/16" | .318" |
| | |



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

OMNITURN'S MULTIBAR TURNING SYSTEM

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

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



OMNITURN'S MULTIBAR \$175.00

Ground edges, not pressed.

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

One Standard bar with the widest choice of inserts.

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

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

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

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

Specially designed geometries help take deeper cuts.

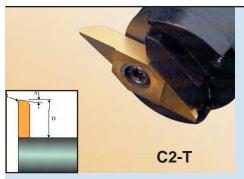


Profiling Insert - 6mm

VFTR-6M050 - \$29.95/each

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

All inserts available in uncoated. Please call for availability.

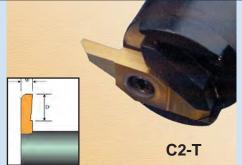


FRONT TURNING

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

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

| A | D | R | Price |
|-----|----------------|--|--|
| 1 | .2" | .000 | \$22.50 |
| 4 | .2" | .000 | \$22.50 |
| 15 | .2" | .002 | \$25.50 |
| 15 | .2" | .002 | \$26.50 |
| 15 | .2" | .007 | \$25.50 |
| 15 | .2" | .007 | \$26.50 |
| cer | | | |
| | 15 15 15 | 1 .2" 4 .2" 15 .2" 15 .2" 15 .2" 15 .2" | 1 .2" .000 4 .2" .000 15 .2" .002 15 .2" .002 15 .2" .007 15 .2" .007 |

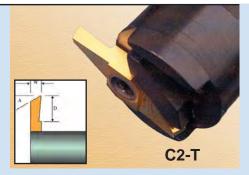


BACK TURNING

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

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

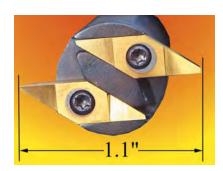
| Insert # | W | D | R | Price |
|------------|------|-------|------|---------|
| VBTR-6M453 | .047 | .085" | .000 | \$24.50 |
| VBTR-6M454 | .062 | .130" | .000 | \$24.50 |
| VBTR-6M455 | .078 | .200" | .000 | \$24.50 |
| VBTR-6M456 | .093 | .200" | .000 | \$23.50 |
| | | | | |



Cut Off

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

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



FIT MORE TOOLS PER SETUP WITH THE OMNITURN 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.



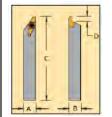
OMNITURN'S MULTIBAR

MultiBar with 5/8" shank \$175.00 Extra Torx wrench T-7 \$6.00 Extra insert screws 2.40-064 \$4.00

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

6mm Insert Bar \$98.00

Max-Bar universal insert holder! One holder. six functions; Just change the insert! This holder does it all!



Front turn - Back Turn Cut-Off - Groove -Plunge & Turn



| R.H. HOLDER NO. | Α | В | С | 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 |
| SVANR-5006M-C SVANR-6256M-C | .500 .625 | .500 .625 | 5.00 5.00 | .200 .200 |

Screw 2.40-064 \$3.00/ea

Wrench T-7 \$6.00/ea

MULTIBAR STARTER KIT

(1) MultiBar PN S10DSVFNL6M2X

- (1) Front turn
- (2) Front turn (1) Back turn
- (1) Cut off
- (1) Cut off
- (1) Groove .031
- (1) Threading
- (1) Threading
- (1) Plunge & turn

VFTR-6M040 VFTR-6M157

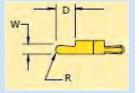
- VBTR-6M455 VCOR-6M1578
- VCOR-6M2047
- VNGR-6M031 VNVR-6M062
- VNVR-6M093
- VTGR-6M078
- (1) Spare screw 2.40-064



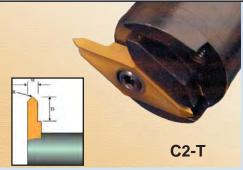
MultiBar Starter Kit PN-6MBSK \$395.00 Includes bar, torx wrench and screw

Full Radius INSERTS





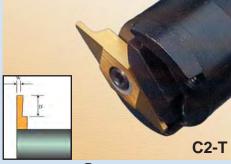
| Ilnsert # | Width | Depth | Radius | <u>Price</u> |
|------------|-------|-------|--------|--------------|
| VFRR-6M010 | .010 | .030 | .005 | \$25.50 |
| VFRR-6M015 | .015 | .040 | .007 | \$25.50 |
| VFRR-6M020 | .020 | .050 | .01 | \$25.00 |
| VFRR-6M025 | .025 | .065 | .012 | \$25.00 |
| VFRR-6M030 | .030 | .090 | .015 | \$25.00 |
| VFRR-6M040 | .040 | .110 | .02 | \$25.00 |
| VFRR-6M047 | .047 | .130 | .023 | \$24.00 |
| VFRR-6M062 | .062 | .160 | .031 | \$24.00 |
| VFRR-6M078 | .078 | .180 | .039 | \$24.00 |
| VFRR-6M093 | .093 | .180 | .046 | \$24.00 |



THREADING

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

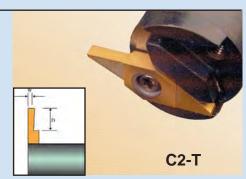
| Insert # | W | D | R | <u>Price</u> | | |
|---------------------|------|------|------|--------------|--|--|
| VNVR-6M031 | .031 | .150 | .000 | \$23.50 | | |
| VNVR-6M047 | .047 | .180 | .002 | \$23.50 | | |
| VNVR-6M062 | .062 | .200 | .002 | \$23.50 | | |
| VNVR-6M093 | .093 | .200 | .004 | \$23.50 | | |
| * with chip breaker | | | | | | |



GROOVING

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

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



PLUNGE AND TURN

The plunge and turn insert can also be used for back turning work.

It does not have as much clearance and relief as the back turn insert. The front edge is parallel to the work piece.

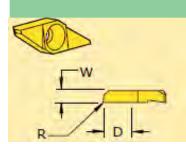
| Insert # | W | D | R | Price |
|------------|------|-------|------|---------|
| VTGR-6M031 | .031 | .050" | .000 | \$24.50 |
| VTGR-6M047 | .047 | .085" | .000 | \$24.50 |
| VTGR-6M062 | .062 | .130" | .000 | \$23.50 |
| VTGR-6M078 | .078 | .200" | .000 | \$23.50 |
| VTGR-6M093 | .093 | .200" | .000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

8mm 35 ° SERIES TOOLING INSERTS

SPARE PARTS

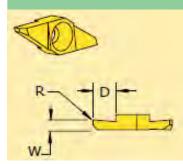
SCREW 3.20-095 \$4.50 WRENCH T-10 \$7.50 8MM Insert MultiBar \$230.00

FRONT TURN



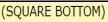
| RIGHT HAND SHOWN | | | | | | | |
|--------------------|---------|------|-------|------|--------|------|------|
| | WID | TH | DEPTH | | RADIUS | | |
| R.H. INSERT NO. | PRICE | INCH | MM | INCH | MM | INCH | MM |
| VFTR-8M040 | \$23.00 | .156 | 4,00 | .300 | 7,62 | .000 | 0,00 |
| VFTR-8M045 | \$23.50 | .156 | 4,00 | .300 | 7,62 | .005 | 0,13 |
| *VFTRB-8M040 | \$25.00 | .156 | 4,00 | .300 | 7,62 | .000 | 0,00 |
| *VFTRB-8M045 | \$25.00 | .156 | 4,00 | .300 | 7,62 | .005 | 0,13 |
| *WITH CHIP CONTROL | | | | | | | |

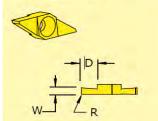
BACK TURN



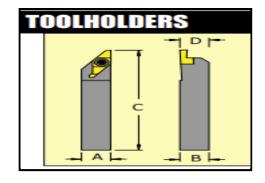
| RIGHT HAND SHOWN | | | | | | | |
|------------------|---------|------|-------|------|--------|------|------|
| | WID | TH | DEPTH | | RADIUS | | |
| R.H. INSERT NO. | PRICE | INCH | MM | INCH | MM | INCH | MM |
| VBTR-8M308 | \$23.50 | .125 | 3,18 | .300 | 7,62 | .000 | 0,00 |
| VBTR-8M306 | \$24.00 | .093 | 2,36 | .300 | 7,62 | .000 | 0,00 |
| VBTR-8M305 | \$24.00 | .078 | 1,98 | .250 | 6,35 | .000 | 0,00 |
| VBTR-8M304 | \$24.00 | .062 | 1,57 | .190 | 4,83 | .000 | 0,00 |

PLUNGE & TURN





| RIGHT HAND SHOWN | | | | | | | |
|------------------|---------|------|------|--------|------|--------|------|
| | | WID | TH | TH DEF | | RADIUS | |
| R.H. INSERT NO. | PRICE | INCH | MM | INCH | MM | INCH | MM |
| VTGR-8M125 | \$23.50 | .125 | 3,18 | .300 | 7,62 | .000 | 0,00 |
| VTGR-8M093 | \$24.00 | .093 | 2,36 | .300 | 7,62 | .000 | 0,00 |
| VTGR-8M078 | \$24.00 | .078 | 1,98 | .250 | 6,35 | .000 | 0,00 |
| VTGR-8M062 | \$24.00 | .062 | 1,57 | .190 | 4,82 | .000 | 0,00 |
| VTGR-8M047 | \$25.00 | .047 | 1,19 | .130 | 3,30 | .000 | 0,00 |
| VTGR-8M031 | \$25.00 | .031 | 0,78 | .050 | 1,27 | .000 | 0,00 |



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

Square shank insert holder for 8MM inserts \$115.00

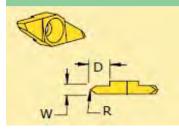
| Α | В | С | D |
|------|------|------|------|
| .500 | .500 | 3.50 | .505 |
| .500 | .500 | 5.00 | .505 |
| .625 | .625 | 5.00 | .630 |

3.20-095 Screw \$4.50

T-10 Wrench \$7.50

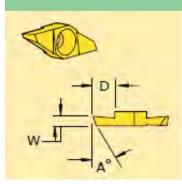
8mm 35 ° SERIES TOOLING INSERTS

THREADING 60 °



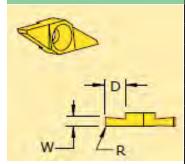
| RIGHT HAND SHOWN | | | | | | | |
|---|---------|------|------|------|------|------|------|
| | WID | TH | DEP | TH | RAD | IUS | |
| R.H. INSERT NO. | INCH | MM | INCH | MM | INCH | MM | |
| VNVR-8M125 | .125 | 3,18 | .300 | 7,62 | .004 | 0,10 | |
| VNVR-8M062 | \$23.50 | .062 | 1,57 | .250 | 6,35 | .002 | 0,05 |
| VNVR-8M031 \$24.00 .031 0,78 .190 4,82 .000 0,0 | | | | | | 0,00 | |
| THREAD FORM IS CENTRALLY LOCATED | | | | | | | |

CUT-OFF



| RIGHT HAND SHOWN | | | | | | |
|------------------|----------|------|------|------|------|------|
| | WIDTH DE | | DEP | TH | Α° | |
| R.H. INSERT NO. | PRICE | INCH | MM | INCH | MM | |
| VCOR-8M158 | \$23.50 | .125 | 3,18 | .320 | 8,13 | 15 ° |
| VCOR-8M156 | \$23.50 | .093 | 2,36 | .320 | 8,13 | 15 ° |
| VCOR-8M155 | \$23.50 | .078 | 1,98 | .320 | 8,13 | 15 ° |
| VCOR-8M154 | \$23.50 | .062 | 1,57 | .260 | 6,60 | 15 ° |
| VCOR-8M153 | \$24.00 | .047 | 1,19 | .190 | 4,83 | 15 ° |

GROOVING



| RIGHT HAND SHOWN | | | | | | | |
|------------------|---------|------|----------|------|------|--------|------|
| | | WID | WIDTH DE | | тн | RADIUS | |
| R.H. INSERT NO. | PRICE | INCH | MM | INCH | MM | INCH | MM |
| VNGR-8M125 | \$23.50 | .125 | 3,18 | .300 | 7,62 | .000 | 0,00 |
| VNGR-8M093 | \$23.50 | .093 | 2,36 | .300 | 7,62 | .000 | 0,00 |
| VNGR-8M078 | \$23.50 | .078 | 1,98 | .250 | 6,35 | .000 | 0,00 |
| VNGR-8M062 | \$23.50 | .062 | 1,57 | .250 | 6,35 | .000 | 0,00 |
| VNGR-8M047 | \$24.00 | .047 | 1,19 | .190 | 4,83 | .000 | 0,00 |
| VNGR-8M040 | \$24.00 | .040 | 1,00 | .130 | 3,30 | .000 | 0,00 |
| VNGR-8M031 | \$24.00 | .031 | 0,79 | .080 | 2,03 | .000 | 0,00 |

OMNITURN'S 8MM MultiBar









LARGE MULTIBAR INSERTS & HOLDERS

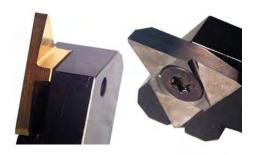
•Larger inserts are available for use with a square shank holder and Double holder. The inserts will take heavier and deeper cuts. These holders and inserts are best held with the Omni *Post-W*.

- 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 \$120.00

1/2" square shank - 3.5" overall length



Insert price notes:

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

| Insert # | Width | Doc | Radius | Price |
|-------------|-------|------|--------|---------|
| FRONT TURN | | | | |
| TFTR-5040 | .25 | .44" | .000 | \$30.00 |
| TFTR-5045 | .25 | .44" | .005 | \$32.00 |
| TFTRB-5040* | .25 | .44" | .000 | \$33.00 |
| TFTRB-5045* | .25 | .44" | .005 | \$33.00 |
| | | | | |

* Notes chip breaker is ground on top edge

| Cut off | | | |
|------------|------|------|---------|
| TCOR-51510 | .156 | .44" | \$32.00 |
| TCOR-5158 | .125 | .44" | \$31.00 |
| TCOR-5156 | .093 | .44" | \$31.00 |
| TCOR-5155 | .078 | .37" | \$31.00 |
| TCOR-5154 | .062 | .30" | \$31.00 |
| TCOR-5153 | .047 | .23" | \$32.00 |

| I TINEADING | O DEGR | | | |
|-------------|--------|------|------|---------|
| TNVR-5125 | .125 | .44" | .004 | \$32.00 |
| TNVR-5093 | .093 | .37" | .002 | \$31.00 |
| TNVR-5047 | .047 | .25" | .000 | \$31.00 |
| | | | | |

Thread form is centrally located

TUDEADING 60 DECREE

| BACK TURN | | | | |
|------------|------|-------|------|--------|
| TBTR-5308 | .125 | .44" | .000 | \$32.0 |
| TBTR-5306 | .093 | .37" | .000 | \$32.0 |
| TBTR-5305 | .078 | .30" | .000 | \$32.0 |
| TBTR-5304 | .062 | .23" | .000 | \$32.0 |
| | | | | |
| GROOVING | | | | |
| THIOD FACO | 450 | 4 411 | 000 | 004.0 |

| TNGR-515 | 6 .156 | .44" | .000 | \$31.00 |
|-----------------|--------|------|------|---------|
| TNGR-512 | 5 .125 | .44" | .000 | \$31.00 |
| TNGR-509 | 3 .093 | .37" | .000 | \$31.00 |
| TNGR-507 | 8 .078 | .37" | .000 | \$31.00 |
| TNGR-506 | 2 .062 | .30" | .000 | \$31.00 |
| TNGR-504 | 7 .047 | .23" | .000 | \$32.00 |
| TNGR-504 | 0 .040 | .18" | .000 | \$32.00 |
| | | | | |

| PLUNGE & TURN | | | | | | | |
|---------------|------|------|------|---------|--|--|--|
| TTGR-5156 | .156 | .44" | .000 | \$32.00 | | | |
| TTGR-5125 | .125 | .44" | .000 | \$32.00 | | | |
| TTGR-5093 | .093 | .37" | .000 | \$32.00 | | | |
| TTGR-5078 | .078 | .30" | .000 | \$32.00 | | | |
| TTCP-5062 | 062 | 23" | 000 | \$32.00 | | | |

LARGE MULTIBAR DOUBLE HOLDER



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

Dual Large MB holder\$195.00

(Uses right handed inserts)
Extra T-25 wrench.....\$5.50
Extra 4.76-127 screw.....\$4.50

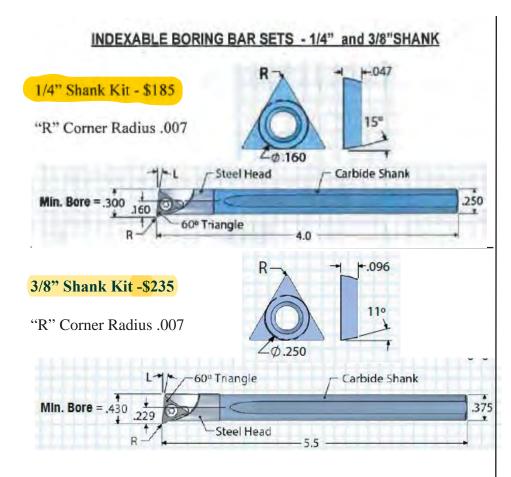
LARGE MULTIBAR



Large MultiBar in a TF-625 STANR-085-V Right Hand \$120.00

Starter kit with inserts PN-20MBSK \$395.00 Extra T-25 wrench \$5.50 Extra 4.76-127 screw \$4.50

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



RIGHT - HAND BORING BAR SETS with TRIANGLE-SHAPED CARBIDE INSERTS Each kit includes:

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



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



<u>TENTION - SWISS MACHINE USERS...</u>













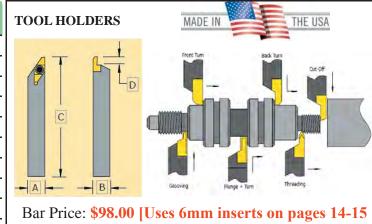


DEPTH OF CUT YOU WANT! - SHANK SIZE YOU NEED! DESIGNED TO FIT YOUR SWISS TYPE CNC SCREW MACHINE WITHOUT THE NEED OF MODIFICATION OR LARGE OFFSETS

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

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

| RIGHT HAND SHOWN | | | | | |
|---------------------------------------|------|------|-------|--------|--|
| R.H. HOLDER NO. | А | В | С | 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 | | | | CH T-7 | |



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

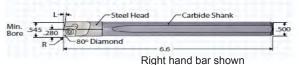
FACE AND TURN BAR WITH INSERTS 1/2" CARBIDE SHANK - DIAMOND SHAPED INSERTS

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

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

BAR WITHOUT COOLANT HOLE

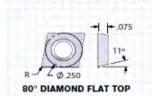
GT-75 AND GT-JR ROUND SPINDLE LINERS:



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

CARBIDE INSERTS





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

\$195.00 Each Available sizes

1/8"

3/16"

1/4"

5/16" 3/8"

7/16"

1/2"

5/8"

3/4"

Drawtube spindle plugs \$69.00





SPINDLE LINERS

OmniTum 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.

\$215.00 each

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.





There are many types of parts catchers. Please contact us for suggestions. Here are a few examples:



Tooling plate mounted shoot with catch basket:

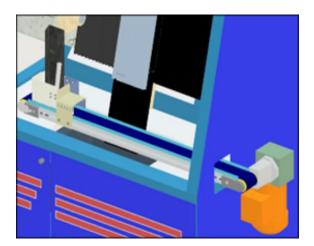
The sheet-metal baffle and right side lower cover needs to be modified by the end user. Prints are supplied with the kit.

The shoot is configured based on the application.

Catch basket with mounting hardware:

Price: \$950

Shoot: POR



Conveyor and Diverter:

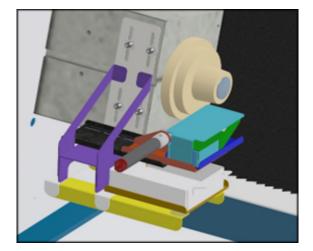
M function controlled tipping or extending diverter

Price: \$4,750 Includes:

- · Conveyor and mounting hardware
- · Diverter: tipping or extending
- Sensor for conformation that the diverter is retracted.

Requires

M function controlled 3 phase relay M function controlled solenoid



Headstock mounted diverter and catch basket:

Great for small parts. The diverter is pneumatically controlled by an M function. It extends under the collet to catch the part. When it retracts the part is captured in a removable tray.

19

Requires M function controlled solenoid

MULTIBAR TREPAN FACE GROOVING

\$175.00 5/8" Shank

Extra Insert screws 2.40-064 \$3.50 each



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

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



SIDE CLEARANCE FOR SHOULDERS

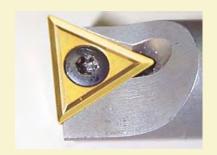
MultiBar Face Groove bar \$175.00

| Insert # | Width | Depth | Min Major Dia | |
|-----------------|-----------|-------|------------------|---------|
| VFGL-6M3050 | 025.03" | .05" | .25" | \$29.00 |
| VFGL-6M3075 | 550.03" | .075" | .50" | \$29.00 |
| VFGL-6M4060 | 25.04" | .06" | .25" | \$29.00 |
| VFGL-6M4090 | 050.04" | .09" | .50" | \$29.00 |
| VFGL-6M5075 | 530.05" | .075" | .30" | \$29.00 |
| VFGL-6M5010 | 060.05" | .10" | .60" | \$29.00 |
| VFGL-6M6080 | 030.06" | .08" | .30" | \$29.00 |
| VFGL-6M6010 | 060.06" | .10" | .60" | \$29.00 |
| VFGL-6M7090 | 030.07" | .09" | .30" | \$29.00 |
| VFGL-6M7012 | 260.07" | .12" | .60" | \$28.00 |
| VFGL-6M8010 | 030.08" | .10" | .30" | \$28.00 |
| VFGL-6M8014 | 160.08" | .14' | .60" | \$28.00 |
| VFGL-6M9014 | 130.09" | .14' | .30" | \$28.00 |
| VFGL-6M9020 | 060.09" | .20' | .60" | \$28.00 |
| Extra Torx wre | nch T-7 | | | \$5.50 |
| Extra insert so | rews 2.40 |)-064 | | \$3.50 |

sold in packs of ten

LEFT HANDED TURNING





TURNING INSERT W/ .015 TNR 5/8" SHANK

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



Now has flats on both sides for better stability.

Left Handed turning Tool \$160.00

Spare screw - SC-30 \$4.50 each

LHTT-.007 \$18.50 each Left Handed Turning w/.007 TNR

LHTT-.015 \$18.50 each Left Handed Turning w/.015 TNR

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



DISCONTINUED

INSERTS STILL STOCKED



| Threading 375-TD | \$23.75 ea |
|--|------------|
| Threading insert for T/T Tool (sold in box of 10), 3 sided, coated | |
| Turning OMTN-007 | \$15.90 ea |

Turning insert for T/T Tool (sold in box of 10), 2 edged, coated, .007" TNR

Turning OMTN-015
Turning insert for T/T Tool (sold in box of 10), 2 edged, coated, .015"TNR

\$14.90 ea

Accessories
FT-9 Torx wrench for threading insert
VR-1 Screw for threading insert

MS1027 Screw for turning insert
\$3.50

Inserts

ISCAR CUT OFF BLADE



| W | Part # | R | K | Price |
|-------|-----------|------|----|---------|
| .087" | GFR 2-4D | .006 | 4 | \$19.45 |
| .087" | GFR 2-6D | .006 | 6 | \$19.45 |
| .087" | GFR 2-8D | .006 | 8 | \$19.45 |
| .087" | GFR 2-15D | .006 | 15 | \$19.45 |
| .087" | GFR 2S-15 | .001 | 15 | \$19.95 |

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

Low Cost! More Pieces Per Blade!

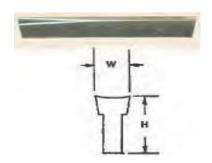
Longer wear, less galling, better finish, higher speeds than high-speed steels. PLUS greater rigidity and up to 10 times the re-sharpen able tool life of carbide tipped tools.

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

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

REF. NO. - P-3N-866\$192.00

Solid Carbide Tin-Coated



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......\$1138.00



HEX - INCHPART #: BROACHTOOL

| HEX | FLATS | DEPTH | PART | # PRICE |
|------|-------|-------|-----------|---------|
| .050 | .0505 | 5/64 | HX00050 | \$77.00 |
| 1/16 | .0630 | 3/32 | HX00-1/16 | \$77.00 |
| 5/64 | .0786 | 7/64 | HX00-5/64 | \$77.00 |
| 3/32 | .0947 | 9/64 | HX00-3/32 | \$77.00 |
| 7/64 | .1106 | 5/32 | HX00-7/64 | \$77.00 |
| 1/8 | .1265 | 3/16 | HX00-1/8 | \$77.00 |
| 9/64 | .1421 | 7/32 | HX00-9/64 | \$77.00 |
| 5/32 | .1582 | 1/4 | HX00-5/32 | \$77.00 |
| 3/16 | .1895 | 9/32 | HX00-3/16 | \$77.00 |
| 7/32 | .2212 | 11/32 | HX00-7/32 | \$77.00 |
| 1/4 | .2525 | 3/8 | HX00-1/4 | \$77.00 |

SQUARE - INCH

| Hex | FLATS | D EPTH | Part# | PRICE |
|------|--------|---------------|-----------|---------|
| 3/32 | .0947 | 9/64 | SQ00-3/32 | \$77.00 |
| 1/8 | .1265 | 3/16 | SQ00-1/8 | \$77.00 |
| 5/32 | .1582 | 1/4 | SQ00-5/32 | \$77.00 |
| 3/16 | .1895 | 9/32 | SQ00-3/16 | \$77.00 |
| 7/32 | . 2212 | 11/32 | SQ00-7/32 | \$77.00 |



AIR CHUCKS

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

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

Productivity

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

Reliability

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

MADE IN THE U.S.A.

Model 350 - 3 Inch - 3 jaw (.060" opening) \$4,495.00 (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 ⊈ of spindle

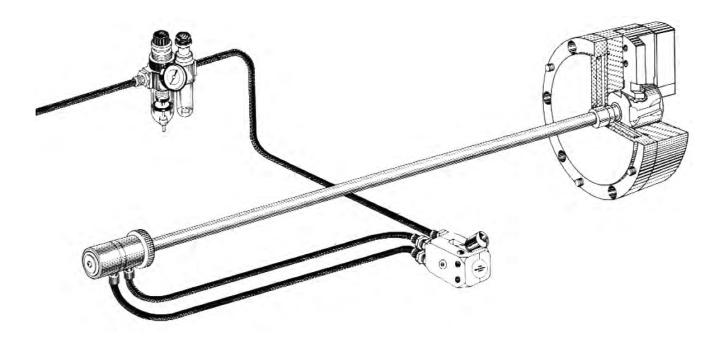
Reasons why you should use an air chuck:

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

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

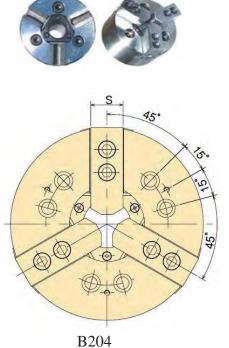


| Part Number | Thru-Hole MM | Max Radial Stroke | Max Radial Stroke w/ Dunham Collet Closer | Max Speed Min -1 (R.P.M) |
|-------------|--------------|-------------------|--|--------------------------------|
| B204 | 26 | .19" | .13" | 8000 |
| N04 | No | .19" | .13" | 6000 |
| NT04 | No | .19" | .13"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

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



\$6,495.00

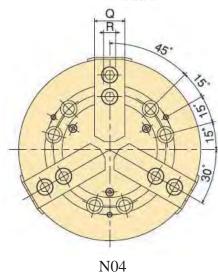




4" - 3 JAW AUTOMATIC
CHUCK BLIND
Part NumberN04
Includes 1 set of steel jaws,
adapter plate for spindle nose,
adapter for between draw tube and
chuck actuator

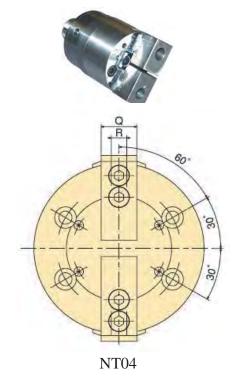
\$5,995.00

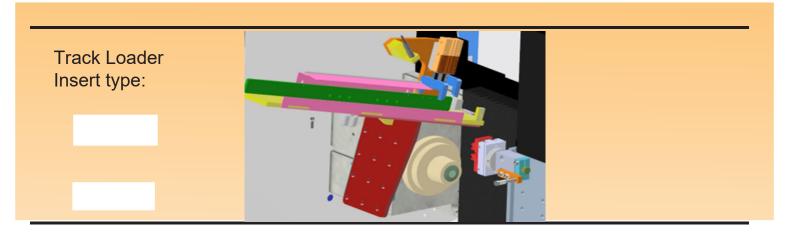






4" - 2 JAW AUTOMATIC
CHUCK BLIND
Part NumberNT04
Includes 1 set of steel jaws, adapter plate
for spindle nose, adapter for between
draw tube and chuck actuator
\$5,495.00





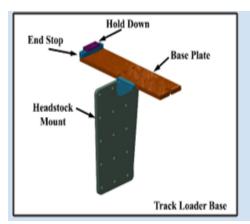
Track loaders are simple. However, they do need to be configured based on the application. This automation system can be purchased as parts or with assistance from Richlin Machinery.

Assistance Options

Configuration of track loader with CAD models and installation notes includes:

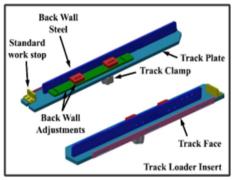
- -Tooling layout to work around the track and work holding
- -CAD drawings of transfer gripper jaws
- -CAD drawings of track modifications if needed
- -GT-75 sheet metal modifications details
- -Schematics for interfacing stack lamp and track options with OmniTurn control Price on request

Turnkey installation by Richlin Machinery on site: P.O.R.



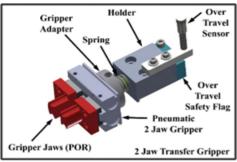
Track loader Base: \$950.00

Installs in minutes by end user.



Standard Track Loader Insert:

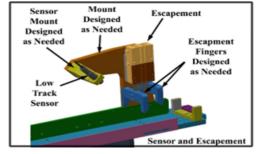
\$950.00

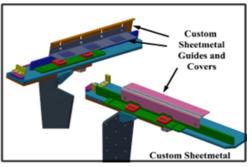


Holder Gripper Travel Adapter Spring Over Travel Safety Flag 3 Jaw Gripper Gripper Jaws (POR)

3 Jaw Transfer Gripper

Travel Holder Sensor Spring ER-16 Over holde Travel Safety Flag ER-16 collet Pin Transfer

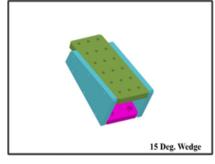




Parts Catcher

POR

Sheet metal covers and quides available



Over travel sensor wired into End of Bar in OmniTurn control Gripper adapter configured to match pneumatic gripper

- •Spring pressure dependent on application

Options: Custom work holding jaws.

Modification of track insert based on application.

3 Jaw Transfer Gripper:

2 Jaw Transfer Gripper:

Basic unit price: \$1,895.00

Basic unit price: \$1,895.00

- Over travel sensor wired into End of Bar in OmniTurn control
- •Gripper adapter configured to match pneumatic gripper
- Spring pressure dependent on application

Options: Custom work holding jaws

Pin Type Transfer:

Base unit price: \$750.00

- Over travel sensor wired into End of Bar in OmniTurn control
- •Gripper adapter configured to match pneumatic gripper
- Spring pressure dependent on application

Escapement and Low Track Sensor: Price: POR

These need to be configured for each application Escapement requires an M function-controlled solenoids Low track sensor requires M95 (G4 controls)

or

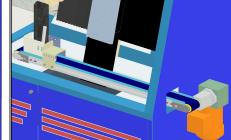
PLC interface with G3 or older controls

15 Degree Wedge:

Price \$750.00

Description: This wedge changes the pitch of the track. It is needed when parts won't roll down the track. At 30 degrees parts will slide down the track





NSK MACHINE TOOL SPINDLE COMBINATIONS

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





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

| E2000 SERIES COMBINATION: | | | |
|---------------------------|------------------|---------------------------|------------|
| CAT. NO. | MODEL | PRODUCT | PRICE |
| 7720 | NE314 | Control Unit | \$1,696.00 |
| AS88322 | EM25- N5000-J | Brushless Motor w/cord | \$1,532.00 |
| AS81820 | NR-H2551 | 1" OD Spindle | \$1,220.00 |
| 4504 | AL-C1204 | Air Line Kit | \$488.00 |
| | | Total | \$4,936.00 |

NSK Omni-Live Tool Holder - Part # 1" BORE \$240.00
WITH BRASS CLAMP TO HELP PROTECT SPINDLE



| Speed Reducer D=Ø1.0"(Ø25.4mm), Ø0.98"(Ø25mm) | | | | |
|---|------------|------------------|--------------------------|-------|
| CAT No. | Model | Outside Diameter | Speed Reduction Ratio | Price |
| AS81826P | ARG-H2504N | Ø1.0" (Ø25.4mm) | 1/4" | |
| AS81822P | ARG-2504N | Ø0.98" (Ø25MM) | 1 " | |

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

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

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



BRUSHLESS

MOTOR.....

Model: EM-3060

Description: Brushless Motor (cord with

quick disconnect) Standard Equipment - Accessories:

Wrench (22 x 27): 1 piece Motor cord - Sold Separately



Spindle.....

Model: NR403E [30MM OD]

Standard Equipment - Accessories:

Collet Ø1/8" (chk - 3.175) Collet Nut (K-265): 1 pc

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



90° Angle Spindle..... 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



 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

\$2,744.00

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)

\$1,707.00

- 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 (51PSI / Using max. 4 motor/spindles) |
| Weight: | 4 lb. 3.02 oz. |
| Dimensions : | W3.46" x D5.43" x H9.37" |



E3000 COMBO TOTAL \$6,260.00

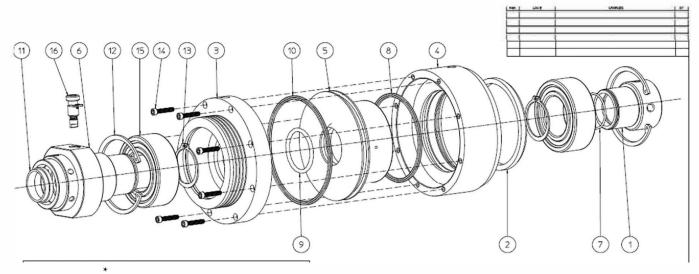
NE211 CONTROL \$2,744.00 NR-403E 30MM SPINDLE \$1,183.00 EM-3060J MOTOR \$1,414.00 EMCD-3000J-3M CORD \$433.00 AL-C1204 AIR KIT \$488.00

GT-75 / GT-JR DUNHAM COLLET CLOSERS

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

| | Dunham Collet Closer w/ Drawtube | 693-08-200 | \$1,995 |
|--|--|--|---------------------------------|
| | Dunham Drawtube Only | 693-08-211 | \$275.00 |
| | Drawtube Plug Spindle | 633-11-001 | \$59.00 |
| | Mac Double Solenoid Valve Only Collet Open / Collet Close | 997-15-007 | \$195.00 |
| | Anti Rotation Bracket | 693-01-001 | \$39.00 |
| and the same of th | Air Lubricator Assembly with bracket Fittings addtional. | 697-11-003 | \$95.0 0 |
| | DunhamCollet closerAir Fittings Air line 1/4" x 1/4" Lube line 5/32" x 1032 NPT | | \$5.00/each |
| | Drawtube locking key Assembly | 693-08-210 | \$79.00 |
| | Dunham collet closer rebuilt kit, includes seals and bearings. | | |
| | Dunham rebuild kit. Dunham bearings only. Dunham seal kit with drawtube seal . | 693-09-103 693-08-202 693-09-102 | \$225.00 \$170.00 \$65.00 |

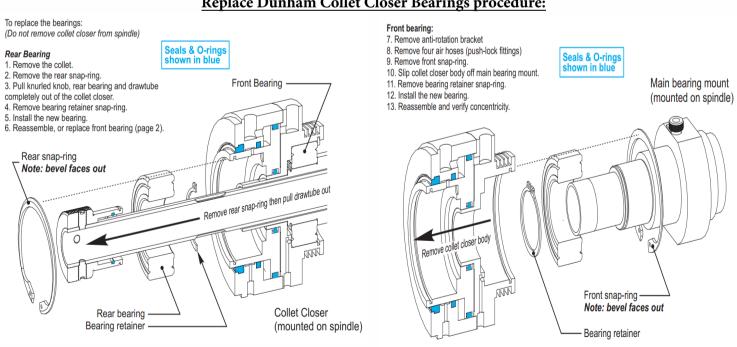
Dunham collet closer breakdown for GT-75 and GT-JR



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

| BC |) Y : | AIR CULLET CLUSE | R OIL MIST OMNITURN |
|-----|-------|---------------------------------|---------------------|
| Pos | Oty | Part Name | Part No. |
| 1 | 1 | KNURLED KNOB | D211-MC544 |
| 2 | 1 | DISOGRIN SEAL | D211-006-044 |
| 3 | 1 | DACCOM MAIN BEARING HOUSING | D211-MC542 |
| 4 | 1 | DACCOM CYLINDER | D211-MC540 |
| 5 | 1 | DACCOM PISTON | D211-MC541 |
| - 6 | 1 | DACCOM-NC MAIN BRG MNT OMNITURN | D211-MC543-F |
| 7 | 1 | O RING | D211-D-130 |
| - 8 | 1 | QUAD RING | D211-Q4353 |
| 9 | 1 | O RING | D211-D-328 |
| 10 | 1 | QUAD RING | D211-04345 |
| 11 | 1 | DISOGRIN SEAL | D210-00602100A |
| 12 | 2 | SNAP RING | D210-5002-354 |
| 13 | 2 | SNAP RING | D210-5102-196 |
| 14 | 8 | SHCS 10-24x1 | D900-10241-SHCS |
| 15 | 2 | AIR COLLET CLOSER BEARING | D210-D-55510ND |
| 16 | 1 | DRAWTUBE LOCK ASSEMBLY | D010-DLK-HD |

Replace Dunham Collet Closer Bearings procedure:



Contact

The World's Most Cost-Effective Turning Machines



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

Gang-tooled for fastest tool changes.

75° slant-bed lets chips fall away quickly.

12" X-Axis travel; 9" Z-Axis travel.

Highest quality ground ball-screws and linear guides

for precision and reliabilty.

Closed-loop servo system provides .0001" accuracy with .00005" resolution.

5hp spindle (C-Axis positioning optional)

4000rpm (5000 optional)

Barfeed ready.

Specifications:

| Capacities | |
|-------------------------|---------------------------|
| Workholding | 5C Collet |
| | 4" Chuck Max (opt.) |
| Max. Cutting Diameter . | |
| Max. Bar Diameter | 1.06" |
| Tooling Plate | 6" x 14" with 3/8" T-Slot |
| Spindle | |
| Max Speed | 4,000rpm (6000 opt.) |
| Max Rating | 5 hp |
| Spindle Nose | 5C w/4° camlock |
| Drawtube Bore | |
| Construction | |
| Ways | Precision Linear Guides |
| Ball Screws Precision | n-ground Zero Backlash |
| Base Billet | MJ7 Composite Casting |
| Headstock | Mahaaita |

Coolant Pump . .1/8hp 5gpm (1/4hp 20gpm opt)

Travels & Feedrates

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

General

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



Omni Turn Zip Loader on GT-75

Fast

Simple

Compact Smart!

mart! \$10,500

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

It's a magazine bar loader!

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

It's a shaft loader!

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

OmniTurn Automation

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

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

- Qualify length from a dimension off the part. This can be from the front
- Concentricity
- Chips

- Orientation
- Change over time for similar parts Part consistency
- Cost - Cycle time

- Finished part unloading
- Work holding
- Fault resets and automation
- Vibratory bowl interface

- Documentation for operator use, setup, and troubleshooting
- -Schematics and spare parts lists



3 second Load/unload Held on the OD, drilled 14 holes, bored the ID, Qualified the overall length



6 second Load/unload Held on the OD, Finished the radius on the face.



3 second Load/unload Held on the OD, Turn, Bore, Drill, Ramp Broach, Deburr.



10 second Load/unload One of a family of parts, load and unload without damaging finish 10 minute change over,



8 second Load/unload Thin sheet metal stamping. Work holding was an issue.



6 second Load/unload Very simple track loader. Simple to build and setup



5 second Load/unload Universal pick and place that can be changed over in minutes



2.5 second Load/unload Turn radius on end. cross drill Dedicated loader from bowl



6 second Load/unload Simple track loader, adjustable and universal



6 second Load/unload Unloaded carefully, no marks on finished face



8 second Load/unload End work on shafts, OmniZip with hopper holds 1000 parts.



3 second Load/unload Universal pick and place that can be changed over in minutes



3.5 second Load/unload On C axis machine, load off center, drill and tap one hole. drill other.



4 second Load/unload Loader for family of parts, fast load time, simple change overs.



12 second Load/ Load/Unload Both sides of part was machined.



Bar fed by OmniZip Extruded stock loaded by rear end loader, 3 second cycle time per part



6 second Load/unload 5,000 part run, OD thread only. Built loader in 2 days for almost off the shelf delivery



6.5 second Load/unload Family of parts done with simple loader. Change over time is only 5 minutes.



6 second Load/unload Unloading was critical. They could not touch one another.



8 second Load/Unload Held on ID, turned entire OD. .0003" total all over.



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



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



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

Visit our website to see most of these loaders in action. www.omni-turn.com

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

High volume, dedicated application:

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

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

Most customers assume that a bowl is required for long running production automation. OmniTurn wonders how often the bowl is really needed? Wefindinmanyapplicationshaving an operator once in a while feel an in feed track is more cost effcient. 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 out flowsafeguarding, chipremoval, etc. Whiletheoperatorismaintaining the other issues of the work cell, they could fill the infeed track. If the trackholds 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 towork with abowl, then the addition of itat 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 quicklyHere 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 definingissueisusuallythelotsizeandhowoftentheloaderwillhavetobe changed over.



Pick and place for delicate parts



Simple track loader with in feed bin



High volumn production - FAST



Very simple table mounted system

THROUGH SPINDLE COOLANT AND AIR BLASTS

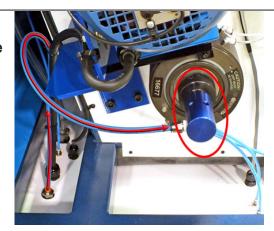
Through-spindle coolant option is very effective for clearing chips while boring, grooving or threading id holes. Coolant is pumped through precision rotary union into drawtube to collet.

Through spindle coolant \$1,250.00

The through-spindle air-blast option is very effective for clearing chips while boring, grooving or threading id thru-holes.

Through spindle air blast \$995.00

Combined system \$1,500.00



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.



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 fi nished part onto the conveyor. This part of the setup is left to the end user.

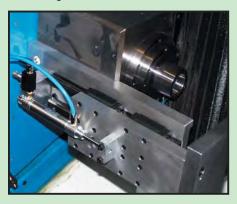
Factory installed - new machines \$3,750





TAILSTOCK FOR GT'S

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



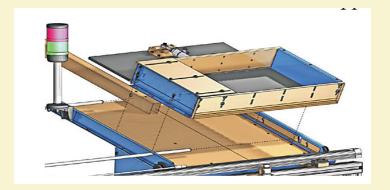
- Tailstock activation can be pneumatic or manual lead screw driven
- The tailstock clears the tooling plate.
- · Tailstock stroke: 2" max
- The tailstock can be mounted at any point in Z so you can make the most of the 2" of travel.

Contact your factory representative for details and application assistance.

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

Parts Hopper for Zip Loader \$1,500

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



UPGRADE TODAY!!

FLOPPY TO USB CONVERTER

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



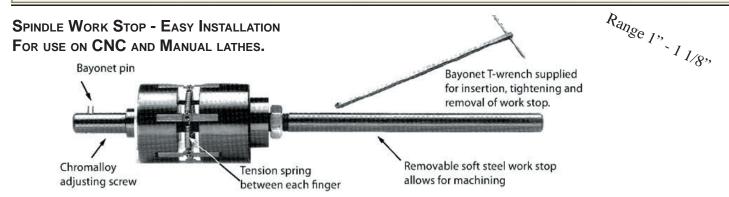


\$195.00



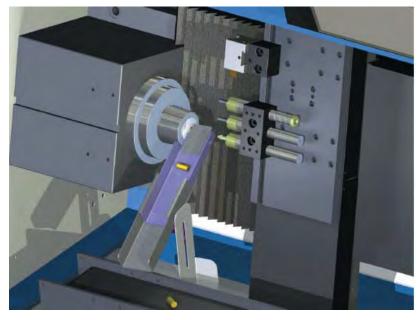


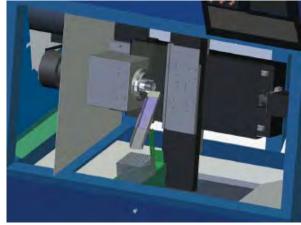
GET YOURS TODAY AND STOP FUMBLING WITH FLOPPY DISKS!



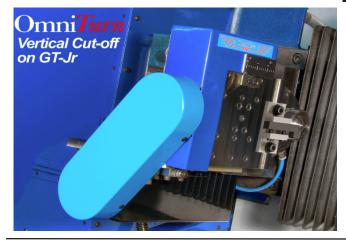
THE SPINDLE WORK STOP IS AN EXPANDING TOOL THAT FITS INTO A LATHE SPINDLE OR DRAW TUBE FOR QUICK SETUP WHEN ACCURACY OR CONSISTENCY OF LINEAR DIMENSIONS IS NECESSARY.

SHOOT TYPE PARTS CATCHER





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



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

- 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.

Table mounted shaft unloader

\$1,050



The OmniTurn table-mounted shaft unloader is part of a comprehensive shaft, or long part, automation system.

Parts are automatically fed into the collet by Zip Loader, machined, then ejected onto the shaft-unloader, which transfers the finished parts to a conveyor to be carried out of the machine.

The Zip Loader can load and eject parts up 25 inches long, and the shaft-unloader catches these long parts and transfers them to the conveyor.

Shorter parts are also easily handled. Total unload/load time for a six-inch part is less than five seconds from eject finished part to next part in collet

Mounting feet for GT-75 and GT-Jr

Ballscrews for all OmniTurn machines. Note: The screw must be cut to length for instal-

Feet - 4 per set 691-13-001

Feet with vibration pads - 4 per set 691-13-001-vibration

\$89.00 \$98.00

992-08-011 Ballscrew & thrust bearing 992-08-002

Air Lubricator Assembly For Collet closer



697-11-003 \$95.00

Computer power supply [G2 & G3 CONTROLS]



995-16-009 \$89.00

Work lamp kit (INCLUDES BRACKETS)

LED



Work lamp kit for GT-75

\$169.00

Collet closer Regulator with gauge.



997-11-002 \$98.00

Encoder Cable



995-07-003

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



Main Filter / Regulator with Gauge



997-11-101 \$89.00

Coolant pumps

Standard 1/8 hp pump only 696-16-001 \$395.00

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 Replacement Lexan Guards Complete Set-up

\$295.00 \$69.00 \$995.00

Ballscrew

lation.

\$,1325.00 \$1.625.00

Thrust bearing assembly



992-08-003 \$300.00



Linear way assembly includes 2 bearing block truck. 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 \$575.00 X axis 12" travel - 21" long (520 mm) 992-08-005 \$595.00 Z axis 5" travel - 10" long (280mm) \$575.00 392-08-001 [Cut to size] Bearing block trucks only - 2 per set 992-08-012 \$395.00

Motor Coupling



992-11-002 \$110.00



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

Brake Bumper -\$12.00

Bellows cover - GT-75 and GT-Jr



Z axis way cover - Attachments



Axis scales 992-04-002 Z axis scale \$45.00 992-04-001 X axis scale \$45.00 Spindle bearings for:

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

693-08-106 set of two 693-08-105 - Nilos Seal Hardinge HC, AHC, HNC 693-08-107 set of two

\$495.00 \$98.00

\$795.00

Grease for spindle bearings 004026-221



Spindle encoder for all machines



Encoder

995-16-005 \$895.00

Encoder belts

Encoder belt - GT-75 (MX315) All attachments except HLV 993-21-001

Encoder belt - GT-JR (MX280) 593-21-001

093-21-001 HLV or HLV-H

\$25.00 \$25.00

\$25.00

Encoder pulley - encoder side

995-22-001



Encoder pulley - Spindle side

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

\$110.00 \$110.00 \$110.00 \$110.00

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



995-16-100 - 1 year warranty

Both X and Z use the same amp

OmniTurn Axis Amplifier



\$750.00

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

\$39.00

\$39.00

\$95.00

Spindle drive belt GT-75 / GT-Jr

Spindle drive belt C axis cog type

LCD Upgrade from CRT Monitor

Replacement LCD Monitor

995-16-019 G3 AND G4

Motherboard for G2 & G3

NO LONGER AVAILABLE

MC2B CARD - 995-17-004

Keyboard G3 CNO

995-16-001 \$225

Relay 999-15-005

Dunham collet closer

12V relay

MC2 motion control card - 995-17-003

Exchange - 90 day warranty \$1,150.00

Spindle drive belt - C axis - Herringbone type

663-21-001 (for GT-75 & GT-Jr)

300H100

693-21-001

Omnivision

stock.

\$430.00

995-17-010

PolyV 310J10 633-21-001 PolyV 290J10 633-21-002 PolyV 360J10 633-21-004 \$39.00 \$39.00

Control push buttons and switches:

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

Power on button assembly Yellow, illuminated, maintained 995-12-101 \$39.00



Servo On button assembly Blue, illuminated, momentary 995-12-102 \$39.00



Cycle start / on indicator assembly Green, Illuminated, momentary 995-12-106 \$39.00



Motion stop button assembly Red, Illuminated, momentary



995-12-105 \$39.00



Spindle drive Auto/Off switch



Black, 2 pos. selector, maintained No longer in 995-12-104 \$39.00

> Spindle speed override dial assembly



Speed potentiometer \$26.00

Jog switch assembly 995-12-107 \$148.00



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



Operator station complete with cable

998-00-000 \$495.00



Palm box push buttons

Collet close push button assembly Red, momentary 998-12-101 \$25.00



Collet open push button assembly green, momentary

998-12-102 \$25.00



Cycle start palm button assembly

Black, momentary 998-12-103 \$47.00



Emergency stop push button Red, maintained, twist to unlock 998-12-104 \$39.00



Grease gun and grease

Grease Gun Grease only



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: \$895.00



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

Spindle Nose Cover

693-01-003 \$98.00



Pins, sockets, cable jacket and plugs

Pins: \$.95

PolyTuff Jacket: \$2.50/foot

Sockets: \$.95 Pin Extractor: \$39 14 pin male connector:

\$9.00

PolyTuff fitting: \$19

14 pin female connector:

\$7.50

Braking resistors

5HP



Mac single solenoid - no

manifold 997-15-008 - \$125.00



Mac single solenoid - with

manifold 997-15-204 - \$150.00



Mac double solenoid - no

manifold 997-15-007 - \$175



Mac double solenoid - with

manifold 997-15-203 - \$195



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

\$59.00 \$19.00

rebuilt kit. includes seals and bearings Dunham rebuild kit 693-09-103 \$225.00 Dunham bearings only

\$25.00

\$15.00

\$65.00

\$39.00

693-08-202 \$170.00 Dunham seal kit with drawtube seal

Retaining Ring Pliers

Socket for relay - 999-15-006

693-09-102

(631) 694-9400

www.omni-turn.com

Fax (631) 694-9415

37



Chip bin with perforated bottom 696-11-003 \$179.00



Chip bin filter \$15.00



Spindle nose cover 693-01-003 \$98.00



Collet closer Regulator 997-11-002 \$98.00



12VDC RELAY 999-15-005 \$25.00



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



PLC kit 16-Inputs 14-outputs 999-39-103 \$1,395.00

DIRECT DRIVES FOR ATTACHMENTS

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



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

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



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

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

Parts only -

Modify customers spindle pulley

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

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



NEW OMNITURN G4 CNC CONTROL WITH CORE EXCHANGE

1 Year Warranty from Ship Date

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

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

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

G4 CONTROL REPLACEMENT PARTS 5AXMC CARD MOTHERBOARD 995-49-011 995-17-015 \$895 with exchange \$720 G4 controls only 90 day warranty AXIS AMP X and Z axis POWER SUPPLY 995-16-007 \$750 ALL 995-16-020 \$125 CONTROLS **G4 CONTROLS** WORK LAMP KIT DIRECT MOUNT ENCODER 5HP 1/4" (INCLUDES BRACKETS) SHAFT - 995-16-105 - \$440 LED **DIRECT MOUNT ENCODER 5HP 3/8"** 491-09-002 \$169 SHAFT - 995-16-103 - POR Control On/Off Collet Open/Close Assembly Switch Assembly 995-12-202 \$40 995-12-201 \$40 C-Axis Jog Switch Assembly 995-12-202 \$40 **USB** keyboard Replacement LCD Monitor [For G4 CNC ONLY] for G4 controls. 995-16-025 995-16-019 \$430.00

\$275.00

Omni*Mate*

Automation for the Job Shop

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

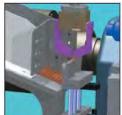
SCREW MACHINE SHOPS PLASTIC INJECTION SHOPS STAMPING HOUSES GRINDING SHOPS

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

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

OFF-THE-SHELF INFEED SYSTEMS

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





VERTICAL NEST

ROCKER NEST

Infeed track for parts that roll

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



Infeed track for parts that hang on a head

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



Pallets for parts that can't be track fed

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

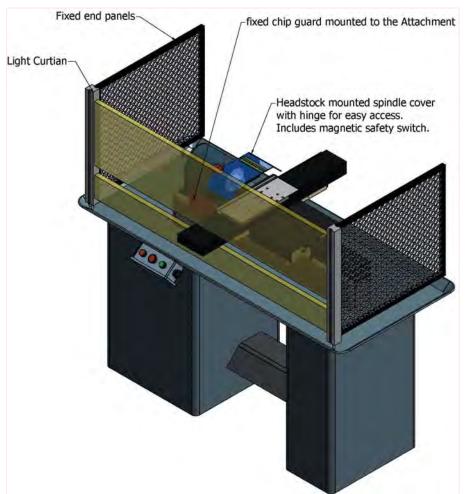
Periodically check your spindle belts as well as your encoder belts for cracks, this could be evidence of your belt failing soon. It's a good idea to keep several of these belts in stock so there will be no down time when you're running that big job.

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

| WIT (WHATEVER IT TAKES) | |
|-------------------------|--|



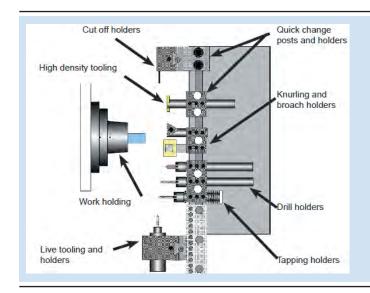
Omni Turn

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.



OmniTurn GT-75
2 and 3 axis lathes for production bar work and secondaries





Attachments and retrofitsfor Hardinge* and Hardinge type machines