Okuma CNC Machine Tools

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GENOS LATHES

L-SERIES

The GENOS L-Series machines are affordable, entry-level, multi-function (optional) lathes that are anything but basic. Built on a one-piece, cast iron base with a horizontal way system and hand-scraped headstock and tailstock mounting surfaces, these machines provide stability, rigidity and accuracy for a variety of applications. The GENOS L-Series has abundant variations for high productivity and a user-friendly design that brings cutting edge manufacturing in an affordable package. Affordable Excellence to meet demanding expectations.

GENOS L200

FEATURES:
- Standard 8” chuck and Live tooling (M)
- Available with a Y-axis

GENOS L250

FEATURES:
- Available with a 6” chuck with a 13” Z-axis travel or 8” chuck with an 18.5” Z-axis travel
- Takes up as little as 30 square feet of floor space

GENOS L300

FEATURES:
- Standard 10” chuck and Live tooling (M)
- Can be configured with Y-axis and/or sub-spindle
- Available in two bed lengths 17.71” and 41.73” Z-axis travel lengths

GENOS L400

FEATURES:
- 10” chuck
- Available in 2 bed lengths, providing Z-axis travels of 20.5” or 45”
The innovative front facing spindle of the Okuma 2SP-H Series helps create the most automation-friendly lathe for small-parts production. By moving the spindle off the side and incorporating the Okuma Gantry Loader (OGL) into the production line, parts can be loaded and unloaded automatically. An extremely compact footprint improves floor space utilization. The popular dual spindle option significantly reduces cycle time.

FEATURES:
- High production runs with no thermal deformation
- Thermo-Friendly Concept provides highly accurate and stable machining
- High volume manufacturing with superb quality

OPTIONS AVAILABLE: (partial list)
- Advanced automation with a high speed 3-axes Okuma gantry loader
- Coolant level monitoring
- Machine Navi
- Live tooling (M)

Can’t find a model you are looking for? Call 1-800-567-2131 and ask to speak to a Machine Tool Sales Representative.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>2SP-150H</th>
<th>2SP-250H</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chuck size</td>
<td>6” (8” optional)</td>
<td>8” (10” optional)</td>
</tr>
<tr>
<td>Max workpiece size</td>
<td>Ø5.91 x 3.15” L</td>
<td>Ø8.66 x 3.15” L</td>
</tr>
<tr>
<td>Ø7.87 x 5.72” L</td>
<td></td>
<td></td>
</tr>
<tr>
<td># of controlled axes</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>Travels (x,z)</td>
<td>5.91 x 6.1”</td>
<td>7.87 x 7.87”</td>
</tr>
<tr>
<td>Max spindle speed RPM</td>
<td>4,500 (6,000 optional)</td>
<td>3,200 (2,000 optional)</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>5.51” flat</td>
<td>JIS A2-6</td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø2.05”</td>
<td>Ø2.44”</td>
</tr>
<tr>
<td>Turret type</td>
<td>V12</td>
<td></td>
</tr>
<tr>
<td>Rapids (xz)</td>
<td>945 IPM</td>
<td></td>
</tr>
<tr>
<td>Spindle motor</td>
<td>15/10 HP x 2</td>
<td>25/20 HP x 2</td>
</tr>
<tr>
<td>Floor space</td>
<td>72.83 x 84.65”</td>
<td>90.55 x 91.5”</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>11,000</td>
<td>15,400</td>
</tr>
</tbody>
</table>

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
Okuma’s SPACETURN EX Series CNC Lathes are built to the high performance standards set by the successful LB Series Product. With four models and 66 option variations offering high accuracy with enhanced multi-tasking capacity, the EX Series is the flagship 2-axes lathe in the Okuma lineup. Built on a high quality box slant bed and a thoroughly tested thermal design, the EX series is able to achieve machining dimensional change over time of less than Ø5µm. And with a ball-screw driven tailstock along with X and Z rapid traverse rates of 984 and 1,181 ipm respectively the machines were created with accuracy and flexibility in mind.

**Highest Quality**
- Application of Thermo-Friendly Concept
- Slanted-box bed construction

**Superior Rigidity - Speed**
- Equipped with high-powered, high-torque PREX motor
- Combination of larger and faster spindle
- Large through-hole diameter, large working range
- Top rotation speed, horsepower, and torque in its class

**Easy to Operate**
- Unsurpassed ease of operation
- Operator-friendly OSP-P200LA

**Extreme Versatility**
- Abundant series variation
- Programmable NC tailstock standard equipment

### LB3000 EX

The LB3000 EX is built on Okuma’s Thermo-Friendly Concept to ensure minimal thermal growth. A wide variety of bed lengths, bore sizes and options, including Live tooling (M), sub-spindle and Y-axis, means there is a configuration to meet any shop’s requirements.

**FEATURES:**
- Extreme high accuracy
- Smooth quiet operation
- THINC control
- Efficient turret design
- Integral spindle with Prex motor
- Thermo-Friendly Concept

**OPTIONS AVAILABLE:** (partial list)
- Machining Navi
- Collision Avoidance
- High pressure coolant
- Robot interface

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LB3000 EX</th>
<th>LB3000 EX (M)</th>
<th>LB3000 EX (MY)</th>
<th>LB3000 EX (W)</th>
<th>LB3000 EX (MW)</th>
<th>LB3000 EX (MWY)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning length</td>
<td>19.68”</td>
<td>19.68”</td>
<td>19.68”</td>
<td>19.68”</td>
<td>19.68”</td>
<td>19.68”</td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>5,000 (BB: 4,300), (SBB: 2,800)</td>
<td>4,920 (BB: 2,800), (SBB: 1,400)</td>
<td>4,920 (BB: 2,800), (SBB: 1,400)</td>
<td>4,920 (BB: 2,800), (SBB: 1,400)</td>
<td>4,920 (BB: 2,800), (SBB: 1,400)</td>
<td>4,920 (BB: 2,800), (SBB: 1,400)</td>
</tr>
<tr>
<td>Power HP</td>
<td>30 (BB: 40), (SBB: 30)</td>
<td>30 (BB: 40), (SBB: 30)</td>
<td>30 (BB: 40), (SBB: 30)</td>
<td>30 (BB: 40), (SBB: 30)</td>
<td>30 (BB: 40), (SBB: 30)</td>
<td>30 (BB: 40), (SBB: 30)</td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
<td>Ø3.15” (BB: 3.58”), (SBB: 4.33”)</td>
</tr>
<tr>
<td>Bar capacity</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
<td>2.598” (BB: 3.189”), (SBB: 4.02”) chuck dependent</td>
</tr>
<tr>
<td>Chuck size</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
<td>SB: Ø8” hollow (BB: 10”) (SBB optional) chuck dependent</td>
</tr>
<tr>
<td>Turret type</td>
<td>V12 NC slotted</td>
<td>M-V12 NC radial bolt-on</td>
<td>V12 NC slotted</td>
<td>M-V12 NC radial bolt-on</td>
<td>V12 NC slotted</td>
<td>M-V12 NC radial bolt-on</td>
</tr>
<tr>
<td>Tool capacity</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>Live tool motor HP</td>
<td>9.5/5.5</td>
<td>9.5/5.5</td>
<td>-</td>
<td>9.5/5.5</td>
<td>9.5/5.5</td>
<td>-</td>
</tr>
<tr>
<td>Live tool speed IMP</td>
<td>984/492/1,181</td>
<td>984/492/1,181</td>
<td>984/492/1,181</td>
<td>984/492/1,181</td>
<td>984/492/1,181</td>
<td>984/492/1,181</td>
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<tr>
<td>Weight (lbs)</td>
<td>9,680</td>
<td>13,200</td>
<td>10,010</td>
<td>13,530</td>
<td>11,100</td>
<td>14,050</td>
</tr>
<tr>
<td>PRICE USD</td>
<td>$134,550</td>
<td>$150,100</td>
<td>$148,495</td>
<td>$160,550</td>
<td>$171,450</td>
<td>$185,560</td>
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<tr>
<td>BIG BORE PRICE* USD</td>
<td>$137,700</td>
<td>$153,250</td>
<td>$151,650</td>
<td>$163,700</td>
<td>$174,595</td>
<td>$184,500</td>
</tr>
</tbody>
</table>

* Without chuck option

BASE PRICE • All Okuma Machines F.O.B. East Coast or West Coast Port of Entry
**LB EX SERIES**

Provides greater efficiency with the highest milling performance in its class all with fast tool change times. The compact PREX motor gives milling performance of 200 cm³/min.

**LB4000BB EX**

**FEATURES:**
- 50 HP spindle
- Extreme high accuracy
- Smooth quiet operation
- Large bar capacity
- THINC control
- Efficient turret design
- Integral spindle

**OPTIONS AVAILABLE:** (partial list)
- Machining Navi
- Collision Avoidance
- High pressure coolant
- Robot interface
- Auto gauging
- Steady rest

**LB2000 EX ALSO AVAILABLE.**

CONTACT YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS ON OTHER SPINDLE SIZES AVAILABLE.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LB4000BB EX (C x 750)</th>
<th>LB4000BB EX (M) C x 1500</th>
<th>LB4000BB EX (MY) C x 2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning dia</td>
<td>Ø18.90&quot;</td>
<td>Ø16.93&quot;</td>
<td></td>
</tr>
<tr>
<td>Max turning length</td>
<td>29.53&quot;</td>
<td>59.06&quot;</td>
<td>84.64&quot;</td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>3,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle nose</td>
<td>A2-11</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power HP</td>
<td>50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø4.40&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bar capacity</td>
<td>Ø3.63 or 4.02&quot; (chuck dependent)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chuck size</td>
<td>Ø12-16&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turret type</td>
<td>L-V12 NC slotted</td>
<td></td>
<td>M-V12 NC radial bolt-on</td>
</tr>
<tr>
<td>Tool capacity</td>
<td>12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool motor</td>
<td>-</td>
<td>10/5.7 HP, 43 lbf</td>
<td></td>
</tr>
<tr>
<td>Live tool speed RPM</td>
<td>-</td>
<td>6,000</td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>13,860</td>
<td>18,040</td>
<td>24,250</td>
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<tr>
<td>PRICE* USD</td>
<td>$178,780</td>
<td>$194,540</td>
<td>$230,720</td>
</tr>
</tbody>
</table>

* Without chuck option
TOP OF THE CLASS IN SPEED, ACCURACY, AND PRODUCTION OF MEDIUM TO LARGE PARTS

Creating large parts such as the threaded pipes and long shafts required by the oil and agriculture industries demands a lathe that is built to not only accommodate massive material but also to handle it with precision. The LBII series does just that. With Okuma’s strong base casting at the foundation, the LB35II and LB45II boast some of the longest available beds, allowing for large diameter machining in a variety of bore sizes. What it gains in size it never loses in power. The LBII Series maintains Okuma standards for optimum torque and precision regardless of machine dimension. Fast motion from end to end ensures accuracy while a low RPM extends the machine’s life and finishing capabilities. With powerful, robust ball screws the LBII series is able to generate slideway movement to both axis, increasing both cutting speed and feed rates.

**LB35II FEATURES:**
- Spindle bores up to 7+"
- High rapids and short tool index times
- Spindle up to 40 HP

**OPTIONS AVAILABLE:** (partial list)
- Live tooling (M)
- Bed lengths up to 2 meters
- One-touch IGF programming
- Steady rests
- High pressure coolant
- Air chuck or hydraulic chuck (some models)
- Variable spindle speed threading
- Thread repair cycle

**LB45II FEATURES:**
- Spindle bores up to 10+"
- High rapids and short tool index times
- Spindle up to 60 HP

**OPTIONS AVAILABLE:** (partial list)
- Live tooling (M)
- Bed lengths up to 4 meters
- One-touch IGF programming
- Steady rests
- Auto door
- High pressure coolant
- Air chuck or hydraulic chuck (some models)
- Variable spindle speed threading
- Thread repair cycle
- Wide turret

**LB45II ALSO AVAILABLE IN 4000MM LENGTH.**

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
**LU3000 SERIES “PREMIUM DESIGN”**

2-SADDLE CNC LATHES OSP-300L CONTROL

The LU Series of 2-saddle (2-turret) lathes is built on a box slant bed providing consistently high accuracy and powerful machining. With simultaneous 4-axis cutting you achieve outstanding efficiency and dramatically reduced cycle times (compared to 2-axis lathes).

**LU3000 EX**

**FEATURES:**
- Thermo-Friendly Concept
- Integral spindle with larger bores
- Top rotation speed, horsepower, and torque in its class
- Slanted-box bed construction
- Efficient turret design
- THINC control
- Extreme high accuracy
- High rapids and short tool index times

**OPTIONS AVAILABLE:** (partial list)
- Steady rests
- Y-axis
- Machining Navi
- Collision Avoidance
- High pressure coolant
- High horse power Live tooling (M)
- Robot interface
- Remote monitoring using MacMan Net
- Advaced One-Touch conversational programming

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LU3000 EX</th>
<th>LU3000 EX (M)</th>
<th>LU4000 EX</th>
<th>LU4000 EX (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning dia</td>
<td>Ø16.15&quot;</td>
<td>Ø13.39&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max turning length</td>
<td>13.78”</td>
<td>23.33”</td>
<td>13.78”</td>
<td>23.33”</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>JIS A2-6 (BB: A2-8)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>5,000 (BB: 4,200)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø3.15” (BB: 3.59”)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power HP</td>
<td>30</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bar Capacity</td>
<td>2.598” (BB: 3.189”)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chuck Size</td>
<td>8” hollow (BB &amp; SBB optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turret type</td>
<td>V12 (U)/V8 (L)</td>
<td>Multitasking V12 (U)/V8 (L)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool capacity</td>
<td>12/8</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool motor HP</td>
<td>-</td>
<td>9.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool speed RPM</td>
<td>-</td>
<td>6,000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>14,080</td>
<td>14,740</td>
<td>14,080</td>
<td>14,740</td>
</tr>
</tbody>
</table>

PLEASE CONTACT YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR DETAILS.
The LU Series of 2-saddle (2-turret) lathes is built on a box slant bed providing consistently high accuracy and powerful machining. With simultaneous 4-axis cutting you achieve outstanding efficiency and dramatically reduced cycle times (compared to 2-axis lathes).

### LU35 FEATURES:
- Spindle bores up to 7+"
- 2 turrets with 22 tool stations
- Spindle up to 40 HP
- Simultaneous cutting using 2 tools
- Chip conveyor

### OPTIONS AVAILABLE:
- Live tooling (M)
- Bed lengths up to to 2 meters
- One-touch IGF
- Steady rests
- High pressure coolant
- Air chuck or hydraulic chuck (some models)
- Variable spindle speed threading
- Thread repair cycle

### LU45 FEATURES:
- Spindle bores up to 10+"
- 2 turrets with 22 tool stations
- Spindle up to 40 HP
- Simultaneous cutting using 2 tools
- Chip conveyor

### OPTIONS AVAILABLE:
- Live tooling (M)
- Bed lengths up to 3 meters
- One-touch IGF
- Steady rests
- Auto door
- High pressure coolant
- Air chuck or hydraulic chuck (some models)
- Variable spindle speed threading
- Thread repair cycle

### CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

Can’t find a model you are looking for? Call 1-800-567-2131 and ask to speak to a Machine Tool Sales Representative.

### LU35 & LU45 SERIES

**4-AXIS CNC LATHE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LU35</th>
<th>850C</th>
<th>1500C</th>
<th>2000C</th>
<th>1000C</th>
<th>2000C</th>
<th>3000C</th>
<th>LU45 (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning dia</td>
<td>Ø21.65&quot;</td>
<td>Ø25.98&quot;</td>
<td>Ø25.59&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Max turning length</td>
<td>36.22&quot;</td>
<td>59.05&quot;</td>
<td>78.74&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>3,200 (BB: 2,800) (SBB: 1,400)</td>
<td>2,800 RPM (BB: 2,400) (SBB: 900)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power HP</td>
<td>40 (50 optional)</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø3.54&quot;</td>
<td>Ø4.33&quot;</td>
<td>Ø7.08&quot;</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chuck Size</td>
<td>Ø12&quot; hollow</td>
<td>Ø15&quot; hollow</td>
<td>Prep only</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turret type</td>
<td>NC-V12/V10 slotted (VDI 60 optional)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool capacity</td>
<td>L12 (I.D. or O.D.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool motor HP</td>
<td>10</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool speed RPM</td>
<td>2,000</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>29,700</td>
<td>33,000</td>
<td>36,300</td>
<td>38,940</td>
<td>46,200</td>
<td>67,540</td>
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<td></td>
</tr>
</tbody>
</table>
LOC SERIES
OIL COUNTRY LATHE

So precisely designed for the needs of the oil industry, the LOC Series is named for the specifications driving its development: Lathe Oil Country. The LOC Series configuration makes it possible to perform the tightest threading functions on big pipes with precision and speed. Each machine in this series has three spindle bore variations specifically designed for the series, and is able to accommodate large diameter pipes. Okuma’s Oil Field “Threading Suite” is custom designed to combine variable speed threading and harmonic spindle control that delivers an exact match between infeed patterns and cutting increments. Okuma lathes are known for their power and control. Though huge in scale, the LOC Series delivers Okuma precision with optimum efficiency.

LOC-500
FEATURES:
• 4-axes productivity/simultaneous cutting using 2 tools
• Spindle bores up to 10.8"
• Spindle up to 55 HP
• Okuma’s Oil Field (threading suite)

OPTIONS AVAILABLE: (partial list)
• High pressure coolant
• Auto door
• Feed hold during threading
• Collision avoidance
• Rear chuck

LOC-650

FEATURES:
• 4-axes productivity/simultaneous cutting using 2 tools
• Spindle bores up to 22"
• Spindle up to 60 HP
• Okuma’s Oil Field (threading suite)

OPTIONS AVAILABLE: (partial list)
• High pressure coolant
• Auto door
• Feed hold during threading
• Collision avoidance
• Rear chuck

CALL YOUR THOMAS SKINNER
MACHINE TOOL SALES REPRESENTATIVE
FOR COMPLETE PRODUCT AND PRICING DETAILS.
LT-EX SERIES “PREMIUM DESIGN”
TWIN SPINDLE, TWIN TURRET TURNING CENTRES

Left and right spindles, upper and lower turrets – that’s ultimate teamwork for complete production on a single machine. The upper and lower turrets can be combined with either spindle, providing the ideal balance of primary and secondary operations. Maximize productivity in a small footprint. With an optional third turret, this machine is the ultimate in process-intensive machining.

LT2000/3000 EX
FEATURES:
• Advanced 4-axes operations with left/right spindles
• Thermo-Friendly Concept
• Balanced left/right spindles
• PC based control includes 15” display and networking
• Equal capacity upper/lower turrets
• Upper/lower turrets can be combined with either spindle
• Energy saving functions reduce power usage
• Small footprint - requires less floor space

OPTIONS AVAILABLE: (partial list)
• Machining Navi
• Collision Avoidance
• High pressure coolant
• High horse power Live tooling (M)
• Robot interface
• Remote monitoring using MacMan Net
• Third turret
• Live tooling (M) and y-axis
• Advanced One-Touch conversational programming

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>LT2000EX</th>
<th>LT3000 EX</th>
<th>LT4000 EX</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2-turret specs</td>
<td>2-turret specs</td>
<td>3-turret specs</td>
</tr>
<tr>
<td></td>
<td>M</td>
<td>MY</td>
<td>M</td>
</tr>
<tr>
<td>Max turning dia</td>
<td>Ø8.27”</td>
<td>Ø13.78”</td>
<td></td>
</tr>
<tr>
<td>Max turning length</td>
<td>27.56”</td>
<td>36.61”</td>
<td></td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>6,000 (BB: 5,000)</td>
<td>5,000 (BB: 4,200)</td>
<td></td>
</tr>
<tr>
<td>Spindle nose</td>
<td>Ø140 (BB: A2-6)</td>
<td>A2-6 (BB: A2-8)</td>
<td></td>
</tr>
<tr>
<td>Power HP</td>
<td>15 (BB: 30)</td>
<td>30 (BB: 40)</td>
<td></td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Ø2.44” (BB: 3.15”)</td>
<td>Ø3.15” (BB: 3.59”)</td>
<td></td>
</tr>
<tr>
<td>Turret type</td>
<td>V16 (12 optional)</td>
<td>Multitasking V16 (12 optional)</td>
<td></td>
</tr>
<tr>
<td>Tool capacity</td>
<td>16 (12)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Live tool motor HP</td>
<td>7.3</td>
<td>9.5</td>
<td></td>
</tr>
<tr>
<td>Live tool speed RPM</td>
<td>6,000</td>
<td>4,500</td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>22,200</td>
<td>24,640</td>
<td>27,720</td>
</tr>
</tbody>
</table>
On the production line there’s no room for down time. That’s why you need the most reliable multi-function machine on the market – the Okuma MacTurn. The MacTurn series was built to improve throughput and virtually eliminate fixturing to ultimately enhance the quality and accuracy of your parts. Automatic tool exchange, large tool storage, lower live turret and available 9-axes machining/turning functions make the MacTurn ideal for many high technology operations. Okuma’s linear roller guide system combines the best of traditional linear ball guides and newer box systems. Factor in Okuma’s gold standard THINC®-OSP P300 Control and you have a high power machine that produces exactly what you ask of it.

**MACTURN 250/350/550**

**FEATURES:**
- Highly rigid roller guide for all axes
- Lower turret for simultaneous machining
- NC automatic tool changer for milling spindle
- B-axis for slope work
- Auto towalong tailstock
- Large capacity live tool machining
- Highly accurate
- Thermo-Friendly Concept

**OPTIONS AVAILABLE:** (partial list)
- Powerful second-operation spindle
- Machining Navi
- Collision Avoidance
- High pressure coolant
- B-axis reverse taper turning
- Helical cutting
- Hydraulic steadirest
- In-process gauging
- Advanced One-Touch conversational programming

---

**MODEL**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MacTURN 250</th>
<th>MacTURN 250-W</th>
<th>MacTURN 350</th>
<th>MacTURN 350-W</th>
<th>MacTURN 550</th>
<th>MacTURN 550-W</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>T</td>
<td>C x 1000 x 1000</td>
<td>T</td>
<td>C x 1500 x 1500</td>
<td>T</td>
<td>C x 1000 x 1000</td>
</tr>
<tr>
<td>Max turning dia</td>
<td>-</td>
<td>Ø21.65&quot;</td>
<td>-</td>
<td>Ø28.35&quot;</td>
<td>-</td>
<td>Ø21.65&quot;</td>
</tr>
<tr>
<td>Max turning length</td>
<td>-</td>
<td>46.06&quot;</td>
<td>-</td>
<td>65.74&quot;</td>
<td>-</td>
<td>78.70&quot; (126.57&quot; optional)</td>
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<tr>
<td>Spindle left</td>
<td>Spindle speed RPM</td>
<td>-</td>
<td>5,000 (BB: 3,800)</td>
<td>-</td>
<td>3,500 (BB: 3,000) (SBB: 2,400)</td>
<td>-</td>
</tr>
<tr>
<td>Spindle power HP</td>
<td>15 (BB: 30)</td>
<td>30</td>
<td>30</td>
<td>40 (BB &amp; SBB: 50)</td>
<td>30</td>
<td>40 (BB &amp; SBB: 50)</td>
</tr>
<tr>
<td>Spindle right</td>
<td>Spindle speed RPM</td>
<td>-</td>
<td>6,000</td>
<td>-</td>
<td>6,000</td>
<td>-</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>A2-6 (A2-8 optional)</td>
<td>-</td>
<td>A2-6 (A2-8 optional)</td>
<td>-</td>
<td>A2-6 (A2-8 optional)</td>
<td>-</td>
</tr>
<tr>
<td>Chuck size</td>
<td>Left</td>
<td>8&quot; hollow (BB: 10&quot; hollow)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
</tr>
<tr>
<td>Right</td>
<td>8&quot; hollow (BB: 10&quot; hollow)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
<td>15&quot; hollow (opt. BB &amp; SBB)</td>
</tr>
<tr>
<td>Spindle bore dia</td>
<td>Left</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø3.54&quot; (BB: 4.33&quot;) (SBB: 5.12&quot;)</td>
<td>Ø3.54&quot; (BB: 4.33&quot;) (SBB: 5.12&quot;)</td>
<td>Ø3.54&quot; (BB: 4.33&quot;) (SBB: 5.12&quot;)</td>
<td>Ø3.54&quot; (BB: 4.33&quot;) (SBB: 5.12&quot;)</td>
</tr>
<tr>
<td>Right</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
<td>Ø2.04&quot; (BB: 2.75&quot;)</td>
</tr>
<tr>
<td>H1 milling turret</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
<td>B-axis 0.001&quot; index (opt. 0.001&quot; continuous)</td>
</tr>
<tr>
<td>Milling tool spindle motor HP</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>Milling tool spindle speed RPM</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
</tr>
<tr>
<td>No. of tools (ATC)</td>
<td>44 (80, 120 optional)</td>
<td>44 (80, 120 optional)</td>
<td>44 (80, 120 optional)</td>
<td>44 (80, 120 optional)</td>
<td>44 (80, 120 optional)</td>
<td>44 (80, 120 optional)</td>
</tr>
<tr>
<td>Milling tool spindle type</td>
<td>HSK-A63 (Capto C6 optional)</td>
<td>HSK-A63 (Capto C6 optional)</td>
<td>HSK-A63 (Capto C6 optional)</td>
<td>HSK-A63 (Capto C6 optional)</td>
<td>HSK-A63 (Capto C6 optional)</td>
<td>HSK-A63 (Capto C6 optional)</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>25,300</td>
<td>27,600</td>
<td>27,940</td>
<td>30,140</td>
<td>31,000</td>
<td>68,200</td>
</tr>
</tbody>
</table>

---

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
MULTUS II SERIES “PREMIUM DESIGN”

INTELLIGENT MULTI-TASKING MACHINES

The Okuma Multus-II Series are general purpose multi-function machines that are designed to reduce set up time by virtually eliminating repetitive fixturing to improve accuracy and keep non-cutting time to a minimum. They feature the industry’s first Collision Avoidance System software. Combined with Okuma’s THINC®-OSP P300 Control, this software can run the entire machining simulation and catch potential collisions before they create scrap. Okuma’s Thermo-Friendly Concept assures high accuracy, even in the most complex applications. Options include the W version with second spindle. They are designed to hand the part from one spindle to the other to complete milling and turning operations without changing the part.

MULTUS B200-II

FEATURES:
• Thermo-Friendly Concept
• Collision Avoidance
• P300S control
• High speed, high power processing capability for multi-tasking operation

OPTIONS AVAILABLE: (partial list)
• W-axis second spindle
• Up to 60 tool magazine
• 20,000 RPM milling spindle

MULTUS B300-II

FEATURES:
• Thermo-Friendly Concept
• Collision Avoidance
• P300S control
• High speed, high power processing capability for multi-tasking operation

OPTIONS AVAILABLE: (partial list)
• W-axis second spindle
• Up to 120 tool magazine
• 10,000 RPM milling spindle

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>B200II</th>
<th>B300II</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>550C or T</td>
<td>750W</td>
</tr>
<tr>
<td>Max turning dia</td>
<td>Ø23.63”</td>
<td>Ø24.80”</td>
</tr>
<tr>
<td>Max turning length</td>
<td>23.62”</td>
<td>31.89”</td>
</tr>
<tr>
<td>Spindle nose</td>
<td>Left: 140 flat (BB: A2-6)</td>
<td>Left: A2-6 (BB: A2-8)</td>
</tr>
<tr>
<td></td>
<td>Right: 140 flat</td>
<td>Right: A2-6</td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>Left: 6,000 (BB: 5,000)</td>
<td>Left: 5,000 (BB: 3,800)</td>
</tr>
<tr>
<td></td>
<td>Right: 6,000</td>
<td>Right: 5,000</td>
</tr>
<tr>
<td>Spindle power HP</td>
<td>Left: 15 (BB: 30)</td>
<td>Left: 20 (BB: 30)</td>
</tr>
<tr>
<td></td>
<td>Right: 15</td>
<td>Right: 20</td>
</tr>
<tr>
<td>H1 milling turret</td>
<td>B-axis 0.001° index (continuous)</td>
<td></td>
</tr>
<tr>
<td>Taper type</td>
<td>Capto C-6 (HSK-A63 optional)</td>
<td></td>
</tr>
<tr>
<td>Tool capacity</td>
<td>40 (60 optional)</td>
<td>40 (60, 120 optional)</td>
</tr>
<tr>
<td>Milling Speed RPM</td>
<td>12,000</td>
<td>6,000 (10,000)</td>
</tr>
<tr>
<td>Milling power HP</td>
<td>16</td>
<td>15 (21 optional)</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>15,400</td>
<td>17,600</td>
</tr>
</tbody>
</table>
MULTUS II SERIES

MULTUS B400-II

FEATURES:
- Thermo-Friendly Concept
- Collision Avoidance
- P300S control
- High speed, high power processing capability for multi-tasking operation

OPTIONS AVAILABLE: (partial list)
- W-axis second spindle
- Up to 120 tool magazine
- Steady rests
- 10,000 RPM milling spindle

MULTUS SERIES

INTELLIGENT MULTI-TASKING FLAGSHIP MACHINE

The Okuma Multus Series machines are general purpose multi-function machines that are designed to reduce set up time by virtually eliminating repetitive fixturing to improve accuracy and keep non-cutting time to a minimum. Options include the W version with sub-spindle, which is designed to hand the part from one spindle to the other to complete milling and turning operations without changing the part.

MULTUS B750

The largest in the family of MULTUS horizontal lathes, the B750 has a maximum turning diameter in excess of 1 meter (41.34 inches, 1050 mm) that raises productivity for large parts. It features the industry’s first Collision Avoidance System software. Combined with Okuma’s THINC®-OSP Control, this software can run the entire machining simulation and catch potential collisions before they create scrap or damage the machine. Thermal-Friendly Construction assures high accuracy, even in the most complex applications.

FEATURES:
- Thermo-Friendly Concept
- Collision Avoidance
- P300S control
- High speed, high power processing capability for multi-tasking operation

OPTIONS AVAILABLE: (partial list)
- W-axis second spindle
- Up to 120 tool magazine
- Steady rests
- Long boring bar with storage rack

### MULTUS II SERIES

#### MULTUS B400-II

**MODEL**

<table>
<thead>
<tr>
<th>B400-II</th>
<th>1500C</th>
<th>2000C</th>
<th>1500W</th>
<th>2000W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning dia</td>
<td>Ø27.95&quot;</td>
<td>60.83&quot;</td>
<td>80.51&quot;</td>
<td>60.83&quot;</td>
</tr>
<tr>
<td>Max turning length</td>
<td>60.83&quot;</td>
<td>80.51&quot;</td>
<td>60.83&quot;</td>
<td>80.51&quot;</td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>3,800 (B: 2,800)</td>
<td>Left: 3,800 (B: 2,800)</td>
<td>Right: 3,800 (B: 3,000)</td>
<td></td>
</tr>
<tr>
<td>Spindle power HP</td>
<td>Left: 30 (BB: 40)</td>
<td>Right: 30 (BB: 30)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H1 milling turret</td>
<td>B-axis 0.001° index (continuous)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taper type</td>
<td>Capto C-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tool capacity</td>
<td>40 (80, 120 optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milling Speed RPM</td>
<td>6,000 (10,000 optional)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Milling power HP</td>
<td>20 (27 optional)</td>
<td></td>
<td></td>
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<tr>
<td>Weight (lbs)</td>
<td>31,900</td>
<td>37,400</td>
<td>34,100</td>
<td>38,500</td>
</tr>
</tbody>
</table>

### MULTUS SERIES

#### MULTUS B750

**MODEL**

<table>
<thead>
<tr>
<th>B750C</th>
<th>B750W</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max turning dia</td>
<td>Ø41.34&quot;</td>
</tr>
<tr>
<td>Max turning length</td>
<td>118.1&quot;</td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>Left: 2,000 (BB: 1,500) (SBB: 1,000)</td>
</tr>
<tr>
<td>Spindle power HP</td>
<td>Left: 50 (BB: 60) (SBB: 60)</td>
</tr>
<tr>
<td>H1 milling turret</td>
<td>B-axis 0.001° index (continuous)</td>
</tr>
<tr>
<td>Taper type</td>
<td>HSK-A100 (Capto C-8, BT-50 optional)</td>
</tr>
<tr>
<td>Tool capacity</td>
<td>40 (80, 160 optional)</td>
</tr>
<tr>
<td>Milling Speed RPM</td>
<td>5,000 (10,000 optional)</td>
</tr>
<tr>
<td>Milling power HP</td>
<td>50</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>88,000</td>
</tr>
</tbody>
</table>

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

Can’t find a model you are looking for? Call 1-800-567-2131 and ask to speak to a Machine Tool Sales Representative.
Okuma’s single spindle series of vertical turning lathes increases productivity by providing stable machining of thin and odd-shaped workpieces. The box-type base and column make a highly dependable, highly rigid structure and the headstock with flange construction minimizes the effects of thermal deformation and vibration - ensuring stable accurate cutting.

**VTL-1SP**

**FEATURES:**
- Compact high horsepower machine with small footprint - requires less floor space
- High metal removal rate with excellent chip control
- Strong base machine from one piece for increased thermal stability
- Ergonomic design provides ease of part loading
- THINC control
- Available in OSP or Fannuc control

**OPTIONS AVAILABLE:** (partial list)
- Live tool (M)
- High pressure coolant
- Variety of chucking and fixturing options
- Tool setter
- Shower coolant

**VTL-2SP**

Okuma twin spindle 4-axes 2SP-V Series vertical turning lathes feature a rigid machine structure that delivers powerful, high accuracy cuts job after job. The vertical box-shaped column is extremely rigid allowing deep cuts at high RPM. Wide, square shaped saddle and cross slideways ensure high precision under all cutting conditions. These high performance VTLs offer a precision machining solution for a variety of critical parts, including large diameter workpieces such as brake drums and rotors, hubs and gears. One control operates two completely independent spindles, providing exceptional flexibility with resulting improvements in machining efficiency. 2SP-V Series VTLs are available with Live tooling (M) on one or both sides, and with straddle tooling to machine disc brake rotors on both sides simultaneously.

**MODEL**

<table>
<thead>
<tr>
<th></th>
<th>V40R</th>
<th>V60R</th>
<th>V80-R</th>
<th>V100R</th>
<th>V40</th>
<th>V60</th>
<th>V80</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Max cutting dia</strong></td>
<td>Ø15.75”</td>
<td>Ø24.02”</td>
<td>Ø31.50”</td>
<td>Ø39.4”</td>
<td>Ø15.75”</td>
<td>Ø24.02”</td>
<td>Ø31.50”</td>
</tr>
<tr>
<td><strong>Max cutting length</strong></td>
<td>17.72”</td>
<td>25.98”</td>
<td>33.07”</td>
<td>35.0”</td>
<td>17.72”</td>
<td>25.98”</td>
<td>33.07”</td>
</tr>
<tr>
<td><strong>Max swing</strong></td>
<td>19.96”</td>
<td>27.56”</td>
<td>39.37”</td>
<td>49.2”</td>
<td>19.96”</td>
<td>27.56”</td>
<td>39.37”</td>
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<tr>
<td><strong>Turret type</strong></td>
<td>B12 (M)</td>
<td>B12 (M) + B12 (M)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rapid traverse (x/z)</strong></td>
<td>945 IPM</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Spindle speed RPM</strong></td>
<td>2,500</td>
<td>2,000</td>
<td>1,250</td>
<td>750</td>
<td>2,500</td>
<td>2,000</td>
<td>1,250</td>
</tr>
<tr>
<td><strong>Motor HP</strong></td>
<td>30/25</td>
<td>40/30</td>
<td>74/60</td>
<td>30/25</td>
<td>40/30</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Weight (lbs)</strong></td>
<td>15,840</td>
<td>20,900</td>
<td>25,300</td>
<td>28,600</td>
<td>30,800</td>
<td>40,700</td>
<td>48,400</td>
</tr>
</tbody>
</table>

**CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.**
VTM SERIES

VERTICAL MULTI-LATHE

The Okuma VTM Series 3-axes vertical turning center combines the benefits of a vertical lathe with those of a machining center. The 50 taper 36-tool magazine enables VTM Series machines to offer both turning and milling operations on a single platform. They are the ideal machines for efficient low volume parts production, including valve bodies and work that requires heavy milling. Okuma box way construction and wide, angular slideways on each axis provide high rigidity for accurate machining. A vertical axis counterbalance assures smooth, stable feed at all speeds. The headstock is fixed to the base, minimizing the influence of thermal changes and vibration on cutting accuracy. VTM series machines are available with a wide range of standard accessories, including a spindle orientation function.

VTM-65/100/200

FEATURES:
• Main spindle has large diameter roller bearings providing excellent cutting characteristics
• Milling tool spindle accepts both milling and turning tools
• Curvic coupling locks milling tool spindle when using turning tools
• Integral milling tool spindle
• Automatic tool changer reduces both set-up and cycle times
• Available in OSP or Fanuc control

OPTIONS AVAILABLE: (partial list)
• High pressure coolant
• Shower coolant
• QTS tool setting (manual or automatic)
• Chuck air blow
• Auto pallet system
• Larger tooling magazine

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

VTM-YB SERIES

VERTICAL 5-AXES MULTITASKING MACHINE

VTM-YB Series five-axes combination lathe/machining centers can perform turning, vertical, horizontal, and angled surface machining in one operation without reorienting the part in the chuck. With operator control of spindle direction in relation to the surface of the work-piece, side cutting with straight end mills can be used to dramatically reduce cutting time compared with point cutting using ball end mills. Cutting efficiency can be increased significantly and the lifetime of the tooling can be extended, reducing overall production costs. The work spindle is supported at two locations by large diameter roller bearings offering precision control for the production of complex parts. The spindle’s geared head generates high torque capable of sustaining the heavy cutting necessary for parts such as large valve bodies.

FEATURES:
• Multi-sided machining using B-axis
• Main spindle has large diameter roller bearings providing excellent cutting characteristics
• Thermo-Friendly Concept
• Available in OSP or Fanuc control

OPTIONS AVAILABLE: (partial list)
• High pressure coolant
• Shower coolant
• QTS tool setting (manual or automatic)
• Chuck air blow
• Auto pallet system
• Larger tooling magazine
• Larger tooling magazine
• Three dimensional co-ordinate change
• Collision Avoidance
• In process work gauging
• High column

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>VTM</th>
<th>VTM-YB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>65</td>
<td>100</td>
</tr>
<tr>
<td>Max cutting dia</td>
<td>Ø25.59”</td>
<td>Ø39.37”</td>
</tr>
<tr>
<td>Max cutting length</td>
<td>25.00”</td>
<td>33.07”</td>
</tr>
<tr>
<td>Max swing</td>
<td>29.50”</td>
<td>39.37”</td>
</tr>
<tr>
<td>Main spindle speed RPM</td>
<td>1,250</td>
<td>250</td>
</tr>
<tr>
<td>Milling spindle speed RPM</td>
<td>4,500</td>
<td>4,000</td>
</tr>
<tr>
<td>Motor HP</td>
<td>40 (60 optional)</td>
<td>24,200</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>24,200</td>
<td>29,700</td>
</tr>
</tbody>
</table>
GENOS M SERIES

SPEED - POWER - ACCURACY COST EFFECTIVE ENGINEERING

Based on the proven technology of the MB-V Series, the GENOS M Series of CNC vertical machining centers offers Okuma value at an economical and affordable price. Thermally-stable, accurate, and rigid, these machines provide high productivity and profitability; in other words, Affordable Excellence. Equipped with Okuma’s industry leading THINC-OSP control, these environmentally-friendly vertical machining centers have the power and flexibility to deliver results time after time.

M460-VE

The smallest vertical machining center in the Affordable Excellence collection, the GENOS M460-VE offers thermal stability, economic energy consumption, quick rapid and tool change times for increased productivity in a small footprint.

FEATURES:
- Thermo-Friendly Concept
- Double column construction with diagonal ribbing
- THINC control
- Re-circulated cooling for bearings and motor
- Fast tool change times
- PC based control includes 15" display and networking
- Small footprint - requires less floor space
- 3D animation
- Oil-mist bearing lubrication

OPTIONS AVAILABLE: (partial list)
- Rotary tables
- High pressure thru spindle coolant
- Collision Avoidance
- Tool breakage detection
- Auto gauging
- Robot interface
- Chip Conveyor

M560-V

Highly rigid, thermally-stable construction allows this vertical machining center to withstand thermal deformation resulting in reduced thermal growth and improved machining performance. Coupled with a user-friendly design and energy-saving technology, the GENOS M560-V truly delivers Affordable Excellence.

<table>
<thead>
<tr>
<th>MODEL</th>
<th>M460-VE</th>
<th>M560-V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis travels x/y/z</td>
<td>30 / 18.11 / 18.11&quot;</td>
<td>41.34 / 22.05 / 18.11&quot;</td>
</tr>
<tr>
<td>Table size dia</td>
<td>Ø18.11 x 39.37&quot;</td>
<td>Ø22.05 x 51.18&quot;</td>
</tr>
<tr>
<td>Spindle type</td>
<td>CAT40 big plus</td>
<td></td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>12,000 (15,000 optional)</td>
<td></td>
</tr>
<tr>
<td>Spindle motor HP</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>ATC capacity</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>Rapid travels IPM</td>
<td>x &amp; y: 1.574</td>
<td></td>
</tr>
<tr>
<td>z: 1.260</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>13,860</td>
<td>16,500</td>
</tr>
<tr>
<td>PRICE USD</td>
<td>$145,650</td>
<td>$148,250</td>
</tr>
<tr>
<td>PRICE* USD</td>
<td>$156,650</td>
<td>$158,250</td>
</tr>
</tbody>
</table>

* Price with optional 15,000 RPM spindle speed

BASE PRICE - All Okuma Machines F.O.B. East Coast or West Coast Port of Entry
The basis for all Okuma vertical machining centres, the MB-V Series sets the bar for efficiency, utility, and high speed - among the fastest in the industry. An impressive thermal stability and zero table overhang allow for tight tolerances and extreme accuracy. The ergonomic front-access design of the Okuma MB Series requires minimal floor space while yielding maximum results. In addition, the MB Series is environmentally friendly, requiring no hydraulic fluid. Construction optimization based on FEM analysis and a rapid spindle traverse with Hi-G acceleration combine to create a solid, nimble machine that delivers on its promise of speed and accuracy, time and time again.

**MB-46VE/MB-56V/MB-66V**

**FEATURES:**
- Okuma OSP THINC Control
- Touchscreen navigation
- Cycle time reduction
- 40 GB hard drive
- Tool life management
- Syncro tapping
- High speed HSK spindles available
- Okuma absolute encoders

**OPTIONS AVAILABLE:** (partial list)
- Rotary tables
- High pressure coolant
- High speed machining
- Lift up chip conveyors
- Tool gauging
- Work gauging

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MB-46VE</th>
<th>MB-56V</th>
<th>MB-66V</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis travels x/y/z</td>
<td>30”</td>
<td>41.34”</td>
<td>59.06”</td>
</tr>
<tr>
<td>Table size dia</td>
<td>Ø18.1 x 39.37”</td>
<td>Ø22.05 x 51.18”</td>
<td>Ø25.98 x 60.24”</td>
</tr>
<tr>
<td>Spindle type</td>
<td>CAT 40T</td>
<td>CAT 50T (40T optional)</td>
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</tr>
<tr>
<td>Spindle speed RPM</td>
<td>8,000 (15,000 optional)</td>
<td>6,000 (12,000 optional)</td>
<td></td>
</tr>
<tr>
<td>Spindle motor HP</td>
<td>15 (30 optional)</td>
<td>15 (35 optional)</td>
<td></td>
</tr>
<tr>
<td>ATC capacity</td>
<td>20 (32, 48 optional)</td>
<td>20 (32 optional)</td>
<td></td>
</tr>
<tr>
<td>Rapid travels IPM</td>
<td>1,259</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>14,300</td>
<td>16,500</td>
<td>24,200</td>
</tr>
</tbody>
</table>

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VERTICAL MACHINING CENTRES

MILLAC-V SERIES
HIGH PRODUCTIVITY, HIGH PERFORMANCE, HEAVY MACHINING.
The MILLAC-V Series of vertical machining centers has high machining capacity with a large range of travel. The highly rigid construction allows for powerful, high-speed, heavy-duty cutting. The main spindle, equipped with a variable speed gear head and large diameter spindle bearings, can perform heavy-duty cutting and rapid machining with large torque from low to high speeds, time and time again.

761V/852V/1052V
FEATURES:
• Okuma THINC Control
• Spindle air blow and air curtain
• Prep for 1000 PSI thru spindle coolant
• Heavy turcite coated box ways
• Lift up chip conveyor
• Full enclosure with ceiling
• Pedestal mounted console
• Okuma absolute encoders

OPTIONS AVAILABLE: (partial list)
• High pressure thru spindle coolant
• 4th axis interface
• Rotary tables
• Tool gauging
• Work gauging
• Chip conveyor
• High column

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

MODEL | 761V | 852V | 852VE* | 1052V | 1052VE*
--- | --- | --- | --- | --- | ---
Axis travels x/y/z | 60 x 30 x 26” | 81 x 33 x 30” | 120 x 33 x 30” | 81 x 41.5 x 31.5” | 120 x 41.5 x 31.5”
Table size dia | Ø70.8 x 28.3” | Ø86.6 x 33.4” | Ø126 x 33.4” | Ø86.6 x 41.3” | Ø126 x 41.3”
Table load capacity (lbs) | 4,400 | 5,500 | 8,360 | 11,000
Spindle type | CAT 50 taper “Big Plus” | | | |
Spindle speed RPM | 6,000 (4,000, 10,000 optional) (optional 12,000 c/w 40 taper) | | | |
Spindle motor HP | 26 | | 30 | |
ATC capacity | 36 (54 optional) | | | |
Rapid travels IPM | 630 | | | |
Weight (lbs) | 27,500 | 33,000 | 40,700 | 50,600 | 59,400

*Extended
5-AXIS MACHINING CENTRES

MU-V SERIES
ABUNDANT POWER
The MU-V Series provides the power of process-intensive machining and high-speed, high-accuracy cutting through the combination of turning and 5-axes multitask machining. The fast yet powerful trunnion table allows simultaneous 5-axes machining and one-chuck multi-sided machining of complex shapes. Ideal for mold & die shops and highly complex aerospace components.

MU-400V/MU-500V
FEATURES:
- Super nurbs all axes
- Thermal compensation
- Cycle time reduction

OPTIONS AVAILABLE: (partial list)
- Thru spindle coolant
- Chuck for table
- Part gauging
- Auto door
- Auto pallet changer
- Shower coolant

MU-H SERIES
ABUNDANT POWER
The latest and largest of the Okuma range of 5-axes horizontal High Speed Machining Centers. The machine has a 1 meter square pallet with capabilities of high torque and high speed machining requirements. The machine is designed for the most difficult of applications with Okuma’s high standard of design stability and accuracy providing the user with a long lasting efficient production platform.

MU-10000H
FEATURES:
- Super nurbs all axes
- Thermal compensation
- Cycle time reduction

OPTIONS AVAILABLE: (partial list)
- Thru spindle coolant
- Chuck for table
- Part gauging
- Auto door
- Auto pallet changer
- Shower coolant

MODEL | MU-400V | MU-500V (option L = lathe)
--- | --- | ---
Axis travels x/y/z | 30 x 18.1 x 18.1" | 49.2 x 26 x 21.2"
Table size dia | Ø15.75" | Ø20.87"
A-axis | +20° - 110° | +20° - 110°
C-axis | 360° | 360° (L = 1,000 RPM)
Spindle type | CAT 40 (HSK-A63 optional) | CAT 40 (HSK-A63 optional)
Spindle speed RPM | 8,000 (15,000, 20,000, 25,000, 30,000 optional) | 8,000 (15,000, 20,000, 25,000, 30,000 optional)
Spindle motor milling HP | 15 (22, 30 optional) | 22 (30 optional)
Spindle motor turning HP | - | -
ATC capacity | 20 (32, 48, 78, 104, 156, 208) | 20 (32, 48)
Rapid travels IPM | x & y: 1,575 | x & y: 1,575
 | z: 1,260 | z: 1,260
Weight (lbs) | 16,900 | 28,600

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
When you want to harness the full potential of power and speed, look no further than the MA-VB Series. Designed with a dual way system, the MA-VB Series combines the heavy duty cutting power of box ways with the high-speed capability of the linear guide. This unique approach creates a versatile machine able to accommodate multiple cutting and finishing needs on a single machine. Extreme power must be balanced by control. Okuma designed the box ways on the MA-VB Series with an internal coolant system to eliminate overheating. A gear headstock allows full control during low speed heavy machining.

**MA-550VB/MA-650VB**

**FEATURES:**
- 828 ft-lbs torque
- Okuma THINC Control
- Okuma absolute encoders
- Cycle time reduction
- Syncro tapping
- Tool life management
- 40 GB hard drive
- Touch screen navigation

**OPTIONS AVAILABLE:** (partial list)
- High pressure thru spindle coolant
- 4th axis interface
- Rotary tables
- Tooling gauging
- Work gauging
- Chip conveyor

**CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>MA-550VB</th>
<th>MA-650VB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axis travels x/y/z</td>
<td>51.1 x 22 x 22&quot;</td>
<td>60.24 x 26 x 24&quot;</td>
</tr>
<tr>
<td>Table size dia</td>
<td>Ø51.1 x 22&quot;</td>
<td>Ø60 x 26&quot;</td>
</tr>
<tr>
<td>Table load capacity (lbs)</td>
<td>2,200</td>
<td>3,300</td>
</tr>
<tr>
<td>Spindle type</td>
<td>CAT 50</td>
<td></td>
</tr>
<tr>
<td>Spindle speed RPM</td>
<td>6,000 (12,000 optional)</td>
<td></td>
</tr>
<tr>
<td>Spindle motor HP</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>ATC capacity</td>
<td>32 (48 optional)</td>
<td></td>
</tr>
<tr>
<td>Rapid travels IPM</td>
<td>x &amp; y: 1,575</td>
<td>z: 1,181</td>
</tr>
<tr>
<td>Weight (lbs)</td>
<td>25,960</td>
<td>33,000</td>
</tr>
</tbody>
</table>

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MCR SERIES
FIVE FACE MACHINING “STEP UP TO THE BIG BOYS”

• Sizes from 2 x 3 meter up to 4 x 12 meters travels
• There is nothing you cannot make on one of these

The MCR Series offers a full-line of double-column machining centres for 5-sided applications. Designed with auto attachment changers (AAC), this series provides a wide selection of work envelopes and spindle motor outputs. Large parts that require high accuracies demand to be cut on the MCR Series.

MCR-A5C
FEATURES:
• Okuma THINC Control (OSP-200M)
• 2-station automatic attachment changer (AAC)
• 50-station automatic tool changer (ATC)
• 30/25 HP

OPTIONS AVAILABLE: (partial list)
• Chip conveyor
• Pallet changers
• Automatic tool offset
• Coolant system upgrade
• Optional ATC - 72/120/180 tools

MCR-A
FEATURES:
• Okuma THINC Control (OSP-200M)
• 5-station automatic attachment changer (AAC)
• 50-station automatic tool changer (ATC)
• 35/30 HP

OPTIONS AVAILABLE: (partial list)
• Chip conveyor
• Pallet changers
• Automatic tool offset
• Coolant system upgrade
• Optional ATC - 72/120/180 tools

MCR-BIII
FEATURES:
• Okuma THINC Control (OSP-200M)
• 9-station automatic attachment changer (AAC)
• 50-station automatic tool changer (ATC)
• 40/30 HP

OPTIONS AVAILABLE: (partial list)
• Chip conveyor
• Pallet changers
• Automatic tool offset
• Coolant system upgrade
• Optional ATC - 72/120/180 tools
• Optional full 5-axis attachment

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
When your business calls for a machine that delivers high productivity without compromising on accuracy, look to the MA-H-II Series of horizontal machining centers. The fourth generation of a proven design platform, the MA-H-500H-II/600H-II machines boast a series of engineering features guaranteed to achieve results.

A high-speed axis feed of 2,362”/min provides near instant access to parts, improving productivity. A wide range of spindles offers full horsepower from low to high RPM’s. And for extremely high accuracy, Okuma’s double sleeve spindle cooling system balances the spindle head temperature to prevent deformation and the resulting imperfection. The MA-H-II Series is the place to turn for the fast creation of precision-crafted components, a true advance in profitability.

**MA-500HII**

**FEATURES:**
- Heavy duty construction
- 447 ft-lbs torque standard
- 740 ft-lbs torque (optional)
- Heaviest machine in class

**OPTIONS AVAILABLE:** (partial list)
- Machining Navi
- Collision avoidance
- Lift up chip conveyors

**MA-600HII**

**FEATURES:**
- Okuma OSP control
- 40GB hard drive
- Touch screen navigation

**OPTIONS AVAILABLE:** (partial list)
- FMS systems
- Expanded tool magazines
- 1,000 PSI coolant system

**CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.**
MB-H SERIES
FLEXIBLE, LARGE-SCALE MACHINING
The MB-H series provides a unique combination of high-speed and power in a small footprint. Highly productive with a high speed spindle and reduced non-cutting time, the MB-H series is built on the Okuma Thermo-Friendly Concept which enables the machine to predict and counter thermal deformation, ensuring consistent accuracy. Each machine is expandable with modular ATC magazine and APC.

MB-4000H/MB-5000H
A high-speed, thermally-stable horizontal machining center that offers quick acceleration, short tool changes and high power to improve productivity. Part of the Affordable Excellence collection of machines, the MB-4000H and MB-5000H can be outfitted with either a 15K or a 20K rpm spindle. Maximum productivity in a minimal footprint.

FEATURES:
• Thermal Friendly Concept
• 2362 IPM cutting federate
• Touch screen navigation
• Cycle time reduction
• Tool life management

OPTIONS AVAILABLE: (partial list)
• Shower coolant
• High pressure coolant
• Matrix tool changer up to 218 tools
• Part gauging
• FMS (additional pallets)

MB-8000H
The MB-8000H horizontal machining center provides highly accurate, high speed machining for parts up to 2000 pounds. Available in 3 spindle options, configurable with a pallet pool or Okuma PALLETACE pallet system and with a tool magazine capacity up to 400, this machine can be used for high production or low lot size jobs - flexible, strong, accurate, productive.

FEATURES:
• Thermal Friendly Concept
• 1968 IPM cutting federate
• Touch screen navigation
• Cycle time reduction
• Tool life management

OPTIONS AVAILABLE: (partial list)
• Shower coolant
• High pressure coolant
• Matrix tool changer up to 285 tools
• Part gauging
• FMS (additional pallets)

MB-10000H
FEATURES:
• Thermal Friendly Concept
• 1968 IPM cutting federate
• Touch screen navigation
• Cycle time reduction
• Tool life management

OPTIONS AVAILABLE: (partial list)
• Shower coolant
• High pressure coolant
• Matrix tool changer up to 218 tools
• Part gauging
• FMS (additional pallets)

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
GI SERIES
CNC INTERNAL GRINDERS
One-of-a-kind to mass production applications – these grinders provide superb multiple ID and contour grinding in one chucking.

FEATURES:
• Numerically controlled oscillating traverse
• Ultra-rigid closed-type 5-surface hydrostatic ways
• Bring power to high-precision cylindrical grinding
• High-performance grinding of a large variety of workpieces and operation combinations
• OSP-U10G easy-to-use CNC for complete digital control with 472 IPM fast positioning and 0.00001" feed
• GI-10N: 6" dia x 6" length
• GI-20N: 12" dia x 8" length
• GI-60N: 12" dia x 20" length

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.

GA/GP SERIES
CNC CYLINDRICAL GRINDERS
High-accuracy CNC cylindrical grinding is better because of Okuma mechatronics with a boost from Okuma’s non-round slide bearings for more solid spindle support.

STEP UP TO SETUP-LESS GRINDING THANKS TO:
• Footstock with manual taper adjustment
• Distance between centres
• Bigger chuck range
• Convenient NC sizing device
• Footstock with auto taper correction
• Bed-mounted tooling
• GA/GP 34 FII: 12" dia x 13", 25", 40" or 60" length
• GA/GP 36 FII: 12" dia x 13", 25", 40" or 60" length
• GA/GP 44 FII: 15.75" dia x 13", 25", 40" or 60" length
• GA/GP 48 FII: 15.75" dia x 13", 25" or 40" length

GA = Angle Head
GP = Plain Head

CALL YOUR THOMAS SKINNER MACHINE TOOL SALES REPRESENTATIVE FOR COMPLETE PRODUCT AND PRICING DETAILS.
INTELLIGENT TECHNOLOGY
ENHANCING MACHINE PERFORMANCE

Full circle performance enhancement features are unique to Okuma. Because we make every inch of our machines and controls, we can create applications highly tailored to enhance performance. By leveraging the power of the THINC®-OSP control, Okuma has enriched its machines and controls with Okuma’s Intelligent Technology.

Our Collision Avoidance System (CAS) integrates 3D modeling of our machines, blanks and tooling with the power of the THINC-OSP Control to create a virtual machine. By running the real-time virtual application seconds ahead of the actual cutting, problems can be detected early and the machine stopped before a costly collision. CAS generates the actual and exact shape of the materials milliseconds ahead of a cut to confirm that no interference takes place. Virtual Modeling requires exacting dimensions and definitions that only Okuma can deliver because we manufacture the machine and custom-create applications.

Okuma invented Machining Navi, an optional function that uses the THINC®-OSP control and sensors to monitor chatter. If chatter is detected, the function then either recommends spindle speed changes (Machining Navi L-g and Machining Navi M-g) or automatically makes the spindle speed adjustments (Machining Navi M-i).

Okuma’s Thermo-Friendly Concept combines control technology and machine design to both minimize the amount of heat generated and deal with the heat that cannot be eliminated. Coupled with extremely accurate thermal deformation compensation, the benefit is unrivaled dimensional stability over long, continuous runs. You no longer waste time and money warming machines up, thus requiring manual adjustments for temperature changes.
ADVANCED ONE-TOUCH IGF

G/M codes are no longer required - machining order tables make the job so much easier!

- Featured in the THINC®-OSP P300 CNC Control
- Single screen operations, all operations can be created and edited in the Machining Order Table
- Fewer keystrokes than previous versions
- Prove the process virtually in 3D graphics simulation
- Advanced Run feature lets you run the program straight from the IGF Machining Order Table, or have it create the G-code part program
- Tool offsets and other parameters can be edited directly - on the spot!

For more information or a demo of the software, go to www.okuma.com or contact your local Thomas Skinner Machine Tool Sales Representative.

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For a complete list of Okuma products please visit www.okuma.com/americas.

HARMONIC SPINDLE SPEED CONTROL

The Harmonic spindle speed variation control changes the spindle speed periodically to prevent chattering generated during machining of a thin-wall and large-diameter workpiece.

VARIABLE SPINDLE SPEED THREADING

Feed axis perfectly synchronized with changing spindle speeds. Thread pitch accuracy is maintained even if the spindle speed changes during threading. Cutting conditions without chatter can be therefore found by using spindle override during threading. As a result, you get good quality threads from the first piece.

HI-CUT PRO

Delivers highly accurate and efficient milling by accelerating and decelerating cutting feed rates per upper limits, thus cycle times are reduced. The OSP automatically controls speeds and acceleration per shape commands (corner angle, arc), creating a more accurate tool path.

Without Hi-Cut Pro

With Hi-Cut Pro

TURN-CUT FUNCTION

Turning is done with synchronized control with X-Y coordinate arc and tool edge position of rotating spindle tool.

- Machining of tapered holes
- Machining of various diameters with a single tool
- Machining of ID/OD greater than largest tool diameter

Turning on a Horizontal Machining Centre.