Equipped with a 24 pocket Automatic Swing Arm Tool Changer the A560 holds up to 24 tools in a single block. Tool changes are fully automatic, taking just a few seconds. Tool changer is located up and out of the way. No tooling interference. No tooling impact. Tooling impact is reduced to an absolute minimum. Eliminates tool wear and is very accurate. Automatic tool length measurement, takes the guess work and labor out of setting up blocks. Menu driven, push button measurement only takes a few seconds for each tool. More accurate and much faster than setting tools by hand.

The A560 can easily machine a variety of materials providing superior accuracy. Automatic tool length measurement, takes the guess work and labor out of setting up tools. Menu driven, push button measurement only takes a few seconds for each tool. More accurate and much faster than setting tools by hand.

The A560 has a large variety of materials providing superior accuracy. Automatic tool length measurement, takes the guess work and labor out of setting up tools. Menu driven, push button measurement only takes a few seconds for each tool. More accurate and much faster than setting tools by hand.

5 HP 20,000 RPM Spindle w/Chiller

Includes Software: Full Service Training and Warranty:

- Internet enabled with on machine remote access trouble shooting & programming assistance.
- Personalized service and support. Support available outside M-F 9-5.

Machine Specifications:

<table>
<thead>
<tr>
<th>Model</th>
<th>A560</th>
<th>A560 XL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>14,000 lbs (6350 Kg)</td>
<td>20,000 lbs (9080 Kg)</td>
</tr>
<tr>
<td>Height</td>
<td>109” (2768 mm)</td>
<td>97” (2463 mm)</td>
</tr>
<tr>
<td>Width</td>
<td>121” (3073 mm)</td>
<td>119” (3023 mm)</td>
</tr>
<tr>
<td>Length</td>
<td>121” (3073 mm)</td>
<td>116” (2946 mm)</td>
</tr>
<tr>
<td>Spindle</td>
<td>20,000 RPM</td>
<td>20,000 RPM</td>
</tr>
<tr>
<td>Taper</td>
<td>CAT 40</td>
<td>CAT40 (BT40 Optional)</td>
</tr>
<tr>
<td>Power</td>
<td>27HP/ 20kW</td>
<td>2425lbs (1100kg)</td>
</tr>
<tr>
<td>RPM</td>
<td>20,000</td>
<td>2625rpm</td>
</tr>
<tr>
<td>Feeds</td>
<td>100% duty</td>
<td>100% duty</td>
</tr>
<tr>
<td>Feed</td>
<td>100% duty</td>
<td>100% duty</td>
</tr>
<tr>
<td>Speed</td>
<td>100% duty</td>
<td>100% duty</td>
</tr>
<tr>
<td>Torque</td>
<td>100% duty</td>
<td>100% duty</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0.0005” (0.0127mm)</td>
<td>0.0005” (0.0127mm)</td>
</tr>
<tr>
<td>Repeatability</td>
<td>0.0002” (0.0051mm)</td>
<td>0.0002” (0.0051mm)</td>
</tr>
<tr>
<td>Rapid</td>
<td>X,Y 1000 IPM, Z 865 IPM</td>
<td>X,Y 1000 IPM, Z 865 IPM</td>
</tr>
<tr>
<td>ATC</td>
<td>24 Position Swing Arm tool changer</td>
<td>24 Position Swing Arm tool changer</td>
</tr>
<tr>
<td>Change</td>
<td>2.9kW, 4.4kW, 1-Ax, 4-Ax AC Brushless</td>
<td>4.4kW, 1-Ax, 4-Ax AC Brushless</td>
</tr>
<tr>
<td>Enduro</td>
<td>Full Enclosure with Chip Auger</td>
<td>Full Enclosure with Chip Auger</td>
</tr>
<tr>
<td>Guide</td>
<td>Heavy Duty Linear guideways</td>
<td>Heavy Duty Linear guideways</td>
</tr>
<tr>
<td>Coolant</td>
<td>75 PSI Max, up to 13 gal/min, 55 Gallon Capacity</td>
<td>75 PSI Max, up to 35 gal/min, 110 Gallon Capacity</td>
</tr>
<tr>
<td>Pressure</td>
<td>90-100 PSI, 6.2-6.8 Bar, 15 cfm</td>
<td>90-100 PSI, 6.2-6.8 Bar, 15 cfm</td>
</tr>
<tr>
<td>Clamps</td>
<td>Disc type Oil/Coolant separator</td>
<td>Disc type Oil/Coolant separator</td>
</tr>
<tr>
<td>Way Cover</td>
<td>Telescoping metal way covers XYZ</td>
<td>Telescoping metal way covers XYZ</td>
</tr>
<tr>
<td>Power</td>
<td>20/24-500V 3 Phases, 130 AMP</td>
<td>20/24-500V 3 Phases, 130 AMP</td>
</tr>
<tr>
<td>Max Load</td>
<td>2200lbs (1000kg)</td>
<td>2425lbs (1100kg)</td>
</tr>
</tbody>
</table>

Maximum Table Load: 2200lbs (1000kg)
**Personalized Training**

Our skilled technicians teach you how to maximize your new A560 system so you can achieve the best performance and efficiency. Our comprehensive personalized on-site training is tailored to your specific application. With up to +1.0° of tilt, the A560 easily reaches into the most extreme port areas. Heads are digitized in 5-Axis right on the machine – no need to purchase additional equipment to digitize your race-winning designs.

**Digitize**

The digitized intake, exhaust, and combustion chamber data is exported to Mastercam where surfaces are created and edited. 5-axis toolpaths are created on your desktop PC or laptop, no need to tie up the machine toengine a cylinder head. The machine can be running a job while you are programming the next head in the comfort of your office, home, remotely etc.

Mastercam’s new “Port Expert” toolpath has special features designed specifically for cylinder head porting that simplify the process and create toolpaths with reduced run-time and superior rigidity over other methods. CENTROID’s smooth motion control and built-in digitizing software with ripping technology for years to come. Made in the USA.

**Turnkey System Includes**

- MPG electronic handwheel
- CAT40 tool holders
- 27Hp / 20,000RPM spindle
- Auto tool length setter
- Digitizing probe & software
- Personalized CNC porting training
- CAD/CAM software
- Patented articulating head design
- Wide door opening for easy fixturing accommodates wide range of cylinder heads
- Heavy duty cast iron frame with linear guideways provide superior accuracy and rigidity for amazing surface finishes.
- 40-tool automatic tool changer
- Wide open flood coolant wash down
- Fully enclosed cabinet with flood coolant wash down
- Easy fixturing accommodates wide range of cylinder heads
- 250mm Rollercon Rotary Table w/ High Resolution Digital Scale
- Auto Brake and Heavy Duty Tachometer w/ Auto Brake for superior rigidity over other fixtures
- Air blast and coolant wash down hose
- Heats are digitized in 5-Axis right on the machine – no need to purchase additional equipment to digitize your race-winning designs.

**CNC Port**

The CNC programs are copied into the CENTROID CNC control via USB, Ethernet or RI. A new casting is loaded into the machine and the porting begins.

**Starter Tooling Package**

- The comprehensive tool package includes everything you need for optimal productivity including a MPG jogging handwheel, 20 Sean, digitalizing probe, automatic tool length setter, a custom cylinder head fixture plate, combustion chamber ball end mill and a custom lifter cutter specifically designed for CENTROID to provide optimal chip removal and a superior surface finish.

**User-Friendly 5-Axis CNC**

- Starter Tooling Package
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- Easy fixturing accommodates wide range of cylinder heads
- 24-tool automatic tool changer
- Fully enclosed cabinet with flood coolant wash down
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**Combustion Chambers**

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**Threadmilling**

- Additional capabilities: Cylinder Boring, Chamfering, O-ring groove, Spot facing, Engraving, Helical Tapping, Threadmilling, Drilling, Four Bolt Main Conver- cing, Pocketing, Block Sleeving, and general machining. See video of all these operations and more on our website.

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