High Torque 27HP, 40 taper spindle delivers much more life than the other brands. The A560 can easily machine a large variety of materials providing superior surface finish while delivering the low and torque necessary for drilling, tapping & threading. 100% solids cycle spindle operation.

Eliminates operator error and increases accuracy. Automatic Tool Length measurement takes the guess work 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.

Includes software for: Cylinder heads for surfacing. Manufactured in-house specifically for cylinder surfacing tooling. Designed and manufactured by people who surfaced heads on their own. Achieve low RA’s with CENTROID’s own tooling.

- Windows 7, “Intercon” conversational part making software, CENTROID’s digitizing and probing cycles, graphical part program preview, automatic tool measurement, cutter radius compensation, unlimited file size, extended block look-ahead, sub programs and macros, post out data in ASCII, high tech diagnostics, and much more.

Additional Features & Capabilities

- 3D Digitizing and Surfacing
- Design parts by model in 3D digitizer
- Auto part alignment to program
- Auto rough and finish passes
- State-of-the-art Linear Rail mill design machine
- 1000 IPM feed rate
- Extra heavy duty machine frame design
- Precision mode machining
- Remote support via internet

Engraving

- Engraving software included.
- We engrave on anything you can imagine.
- Throttle body and carburetor parts, make throttle body and carburetor parts, make covers, suspension parts, exhaust parts, fuel injection rails, impellers, spacers, adapters, 4-valve heads, any numbers of parts.
- 3D Digitizing and Surfacing
- Design parts by model in 3D digitizer
- Auto part alignment to program
- Auto rough and finish passes
- State-of-the-art Linear Rail mill design machine
- 1000 IPM feed rate
- Extra heavy duty machine frame design
- Precision mode machining
- Remote support via internet

Specifications and features subject to change without notice.

Machine Specifications:

- **A560**
  - Tool Size: 34 x 44.5” (863 x 1130mm)
  - Spindle speed: 20,000 RPM
  - Spindle: CAT40
  - Spindle taper: Taper
  - Accuracy: X, Y, Z .0002” (.0060mm)
  - Rapid feed rates  (X,Y,Z): 1000 IPM
  - Spindle taper: CAT 40
  - Spindle speed: 20,000 RPM
  - Maximum table load: 1500 lbs (680Kg)
  - Spindle taper: CAT40
  - Spindle speed: 20,000 RPM
  - Accuracy: X, Y, Z .0002” (.0060mm)
  - Rapid feed rates  (X,Y,Z): 1000 IPM
  - Spindle taper: CAT 40
  - Spindle speed: 20,000 RPM
  - Maximum table load: 1500 lbs (680Kg)

- **A560 XL**
  - Tool Size: 34 x 44.5” (863 x 1130mm)
  - Spindle speed: 20,000 RPM
  - Spindle: CAT40
  - Spindle taper: Taper
  - Accuracy: X, Y, Z .0002” (.0060mm)
  - Rapid feed rates  (X,Y,Z): 1000 IPM
  - Spindle taper: CAT 40
  - Spindle speed: 20,000 RPM
  - Maximum table load: 1500 lbs (680Kg)

Included Software:

- Windows 7, “Intercon” conversational part making software, CENTROID’s digitizing and probing cycles, graphical part program preview, automatic tool measurement, cutter radius compensation, unlimited file size, extended block look-ahead, sub programs and macros, post out data in ASCII, high tech diagnostics, and much more.

- Customized one-on-one training, tailored to each customer’s specific needs.
- One year standard warranty on parts, labor, and technical support.
- Machine-in-shop setup included.
- Personalized service and support. Support available 24-7, 365.
- One number to call for all on-site service and support in the system.
- Direct support phone numbers.
- Internet enabled with on-machine remote access troubleshooting & program assistance.

For more information, contact CENTROID at 814-353-9256 or sales@centroidcnc.com.
Digitalize
With up to ~ 60° of tilt, the A560 easily reaches into the metal extrusions port designs. Heads are digitized in 5-Axis right on the machine – no need to purchase additional equipment to digitize your race-winning designs.

Create
The digitized data is exported to Mastercam wireframes are created and edited. 5-Axis toolpaths are created on your desktop PC or laptop, no need to tie up the machine to program 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.

CNC Port
The CNC programs are copied into the CENTROID CNC control via USB, Ethernet or WiFi. A new casting is loaded into the machine and the porting begins. The A560 machines exact copies of your ports for the ultimate in consistency and power gains.

Turnkey System Includes
- 5-Axis machining center
- 3-Axis CNC control
- Patented articulate head design
- Mastercam CAD/CAM software
- Personalized CNC porting training
- Digitizing probe & software
- Control tiltporting porting
- Auto tool length setter
- Cylinder head fixture plate
- 27Hp / 20,000RPM spindle
- CAT40 tool holders
- MPG electronic handwheel
- Industry’s best warranty & support

Personalized Training
Our skilled technicians teach you how to reproduce your race-winning designs. Heads are digitized in 5-Axis right on the machine – no need to purchase additional equipment to digitize your race-winning designs.

Advanced Tool Expert Soft-specific features specifically for cylinder head porting that simplify the process and create hybrids with reduced turn and groove errors. The Mastercam toolpath optimization feature allows you to create accurate reproductions of your intake, exhaust and porting designs from extrusion data. Simplifies the process and allows you to create accurate reproductions of your intake, exhaust and porting designs from extrusion data.

Combustion Chambers
Machine your cylinder head with results superior to other methods and machines.

Pick your A560
- A560 XL
- A560 XL base

Log in to our website.