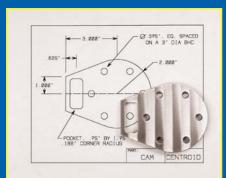


# So Easy, You'll Cut Parts The First Day!



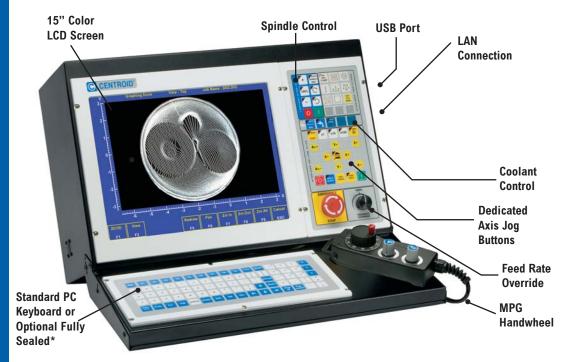
From Print to Part...
In Minutes!



**High Speed Machining** 



Threadmilling\*
www.CENTROIDCNC.com



#### Do more with a CENTROID!

- Cut parts the first day with intuitive, straight-forward operation
- Increase production with faster setups and easier programming
- Expand your machining applications and compete on higher paying jobs without higher cost
- Connect easily to any computer system by using USB, LAN or RS-232 (serial)

#### **Advanced Features Include**

- 1,2,3,4 or 5 axis simultaneous motion control with spindle speed control
- High-speed machining with superior accel/decel look ahead
- · Digital servo amplifiers and motors
- 512MB built in solid state hard drive
- AC and DC servo motors
- Easy to use part and tool setup menus
- 15 Inch east to read color LCD display
- 3D tool path graphics, with runtime display
- Full conversational programming, No G-Code knowledge needed

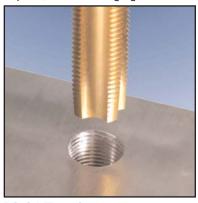
#### **High Speed Machining**

- Run large, complex CAD/CAM or engraving programs without worry.
- High-block through-put, combined with superior, up to 2000 line, accel and decel lookahead
- Fast, smooth cuts accomplished at highest possible speed, while holding tight tolerances



# Smart Automatic Tool Changer Control\*

- Controls Geneva or Swing-Arm tool changers
- Control up to 200 tools
- Menu-Driven tool changing without using G-Code



# **Canned Cycles**

- Drill, Bore and Tap\*
- Pockets; Rectangular, circular and irregular with autocleanout, island avoidance and finish passes
- Repeat whole parts, events or a matrix of holes
- Mirror and rotate whole parts or one entity
- Threadmilling: inside, outside, left and right
- · Lines; end points and polar
- Arcs; EP&R, ER&R, CP&EP and 3-points
- Frames; inside and outside of rectanguler, circular, helix, and irregular

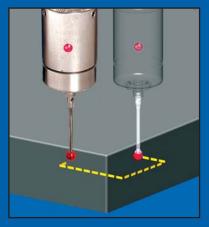
#### Rigid Tapping\*

- Perfect repeatable taps each and every time
- Allows use of solid tool holders with your tap
- Special Deep Hole Tapping Cycle for large-diameter

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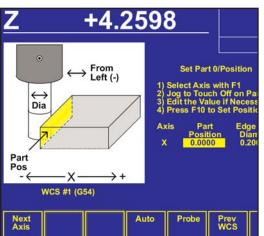
**Easy File Transfer with USB, LAN and RS-232** 

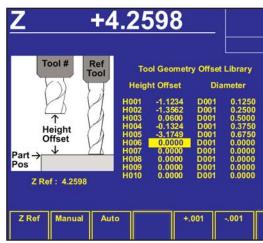


**Automatic Part Setup with Probing Cycles\*** 



Automatic Tool Setter\*





# **Intercon Conversational Programming**

- · Quickly enter programs at the machine
- Easy "fill in the blank" menus
- Graphical help does the math for you
- · Software automatically generates the G-Code
- Check your work instantly with 3-D tool path graphics

# **Probing Cycles\***

- The DP-4 Probe with Probing cycles, offers easy, push-of-a button use
- Find edges, corners, bore centers, boss centers and fixture offsets
- · Automatically set Part Zero position, quicker and more accurately than manual methods
- Co-Ordinate System Rotation\*, never manually tram a vise again



#### Digitizing\*

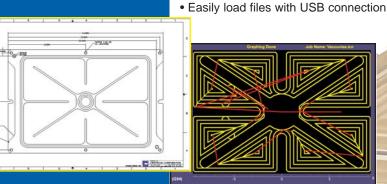
- Duplicate parts in 2D or 3D
- Perform grid, radial and contour/CAM copy digitizing
- Automatically generates G-Code from Digitizing, ready to cut the part, or export to CAD/CAM
- Mold Magic software provides for "plug to mold" or "mold to plug" data manipulation

#### **Automatic Tool Setter\***

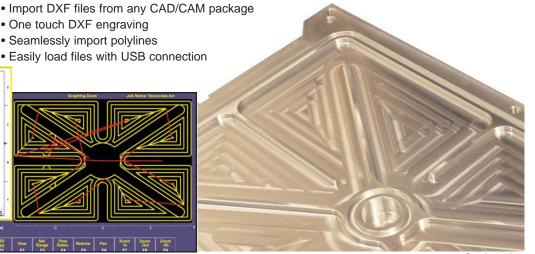
· One touch DXF engraving Seamlessly import polylines

- Measure tool height offsets more accurately than manual methods
- One Touch operation sets Tool heights within 0.0001" in seconds
- Press one button to measure all ATC tools

## **DXF Import\***



From DXF To Part



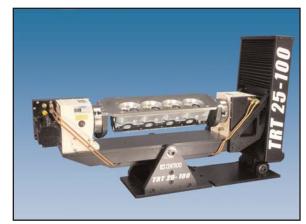
# M-400 Options\*

- \* DXF CAD Drawing Import
- \* Tilting Rotary Tables
- \* Precision Rotary Tables
- \* 2D & 3D Digitizing Software
- \* Probing Cycles
- \* DP-4 Digitizing Probe
- \* TT-1 Automatic Tool Setter
- \* Engraving Software
- \* Smart ATC Control
- \* Multiple Work Coordinate **Systems**
- \* User-Definable Macros and **Sub Programs**
- \* Compression Tapping
- \* Rigid Tapping
- \* Scaling and Mirroring
- \* Unlimited Part Program Size
- \* Coordinate System **Rotation**
- \* Sealed QWERTY Keyboard
- \* MPG
- \* Console Floor Stand
- \* Electrical Cabinet Mounting **Stand**

#### Engraving\*

- Engrave letters, numbers, symbols, and logos
- Import DXF CAD drawings
- Create programs on your offline Windows PC
- Engrave on arcs, spheres, slopes and more
- Create your own logos and characters from imported files
- Transfer designs to the control using USB or LAN





## Tilting Rotary Table\*

- The most rigid and accurate Tilting Rotary Table available
- Ballscerew driven tilt mechanism, providing 0.0002 accuracy
- Do 5 axis simultaneous machining on a standard 3 axis mill
- · Great for use with cylinder heads and other irregular shaped parts

# **OEM & Retrofit CNC Control Systems**

 Pre-engineered CNC control packages are available for: kneemills, bedmills, machining centers.

boring mills, routers and water jets

- · Specialty uses include 5 axis machines, welders, lasers, plasma cutters and punch machines
- Common CNC control configurations are in stock and ready for immediate shipment
- CENTROID retrofit upgrade kits are perfect for good machines with obsolete controls



# **Over 25 Years of Experience**

CENTROID is a U.S. owned and operated company with thousands of CNC controls in operation

# **Designed To Last**

CENTROID continues to support every CNC control we ever produced

#### **Certified Worldwide Support**

Worldwide network of factory certified technicians, provide fast and affordable CNC Sales, Training, Service, installation and Support.



# **CENTROID** 159 Gates Rd.

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#### **Distributor:**

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