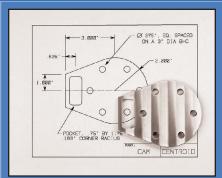


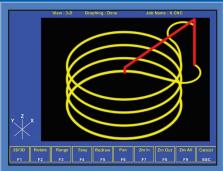
CNC Control For Mills



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



From print to part... in minutes!



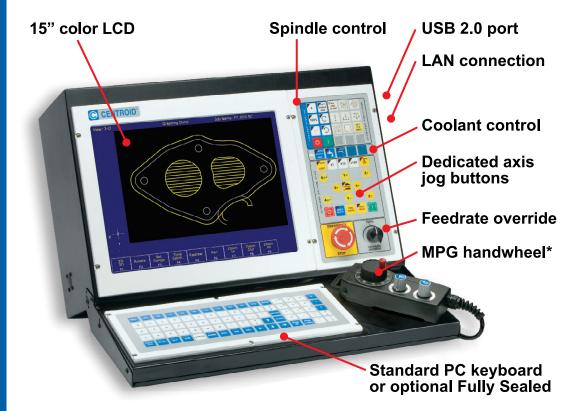


Threadmilling



Easy file transfer with

USB, LAN & RS-232



Do more with a CENTROID!

- Cut parts the first day with intuitive, straightforward operation
- · Increase production with faster setups and easier programming
- Expand your machining capabilities and compete on higher paying jobs without higher cost
- Three ways to program parts: Conversational, G&M Codes, and with most any CAD/CAM software.
- Connect easily to any computer system by using USB, LAN, or RS-232 (serial)

Advanced features include:

- · 3 Axis with spindle control: Standard
- 4,5,6,7,8 Axis simultaneous contouring: Optional
- High-speed machining with superior accel/decel look ahead
- · Digital servo amplifiers and motors
- · Large, built-in solid state hard drive

- AC or DC servo motors
- · Easy-to-use part and tool setup menus
- Large, easy-to-read color LCD display
- 3D tool path graphics, with runtime display
- Runs on Industry Standard G&M codes.
- USB ports for fast easy part program transfers.

Intercon conversational programming

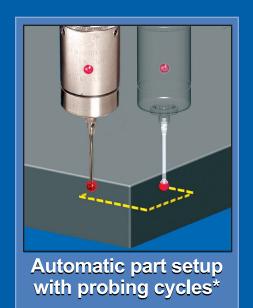
- · Quickly create part programs right at the control
- · Easy "fill in the blank" menus
- Graphical help menu with math assistance for missing dimensions
- · Software automatically generates the G-code
- No knowledge of G-codes necessary
- Check work instantly with 3D tool path graphics
- · Drill, bore, and tap*

- Pockets: rectangular, circular and irregular with auto-cleanout, 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 rectangular, circular, helix, and irregular



Rigid tapping

- · Perfect, repeatable threads each and every time
- Allows use of solid tool holders with your tap
- Special deep hole tapping cycle for large-diameters and threadmilling for even larger diameters

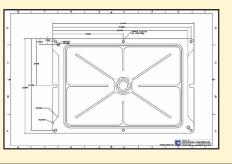




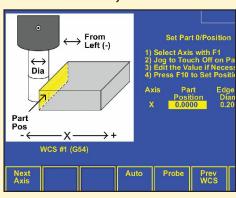


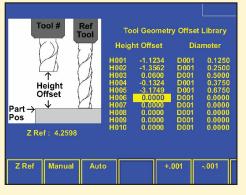


From DXF...



Fast, menu-driven part & tool setups





Probing Cycles*

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

High speed machining

- Run large, complex CAD/CAM or engraving programs without worry, with unlimited file size*
- High-block throughput, combined with superior 2000 line accel and decel lookahead
- Fast, smooth cuts accomplished at highest possible speed, while holding tight tolerances

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 data to CAD/CAM
- Mold Magic software provides for "plug to mold" or "mold to plug" data manipulation with scaling and auto rough and finish passes

Automatic tool setter*

- Measure tool height offsets more quickly and 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 *

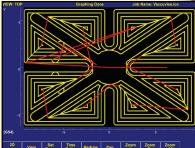
• Import DXF files from most CAD/CAM package

One-touch DXF engraving

Seamlessly import polylines

· Easily load files with USB connection

To part...





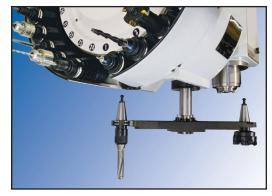
M-400 Options

- 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 & sub-programs
- Compression Tapping
- Rigid Tapping
- Scaling & Mirroring
- Unlimited part program size
- Coordinate System Rotation
- Sealed QWERTY keyboard
- MPG handwheel
- Console floor stand
- Electrical cabinet mounting stand

Engraving*

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





Smart automatic tool changer control*

- Controls carousel or swing-arm tool changers
- Control up to 200 tools
- Menu-driven tool changing w/o using G-code

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: Automotive CNC machine tools, welders lasers, plasma cutters
- Common CNC control configurations are in stock and ready for immediate shipment
- · CENTROID retrofit upgrade kits are perfect for good machines with obsolete controls



Designed to last, with over 31 years of experience

• CENTROID designs and manufactures its own state-of-the-art CNC control components. This allows us to provide the industry's most affordable replacement CNC parts and support long after the sale. Low CENTROID CNC control operating costs increase your bottom line.

- · CENTROID is a U.S.-owned and operated company with thousands of CNC controls in operation worldwide
 - US Patent 6,490,500

Certified worldwide support

· Worldwide network of factory certified technicians, provide fast and affordable CNC sales, training, service, installation and support.

Distributor:

Available from: **Machines in Motion Inc.** (877) 733-5500 toll free cnc-machine-controls.com cnc-retrofit.info



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