



# CENTROID™

## M-39 CNC Control For Mills

### All the Power and Economy of a True PC-Based CNC.

- 3 or 4 Axis CNC
- Hand-Held Jog Pendant
- Conversational Programming
- Teach Mode
- Engraving
- *Mastercam*® Level 1 v 3.21\*\* Standard!
- Tool Path Graphics

\*\*Limited time offer



*Jog Pendant with Optional MPG Handwheel*



## What You Get with an M-39\*

The M-39 is a 3 or 4 axis CNC designed for milling applications. It's ideal for CNC knee mills, bed mills, wood routers, and XYZ gantry machines. Includes:

- Pre-wired enclosure with PC, powerful servo drive, power supply, and I/O
- Hand-held jog pendant; E-stop; dedicated jog, rapid override, spindle and coolant buttons
- 3 Powerful servo motors w/cables and encoders
- Mounting arm with monitor stand and keyboard tray
- Conversational, G-code, and *Mastercam*. Level 1 version 3.21\*\* CAD/CAM software installed
- Ready to bolt on and run!

## True PC Based, Open Architecture System

The M-39 is the easiest control to integrate into your system. It uses a standard PC with off-the-shelf components. The software is installed and ready to go. Includes:

- ISA motherboard with powerful CPU
- Connections for PC keyboard, VGA, and mouse
- Large capacity hard drive, 3.5" floppy disk drive, and RS-232 port

\*User supplies keyboard, mouse, and monitor

\*\*Limited time offer

## Programming

*Conversational Programming:* Our easy conversational lets you program lines, arcs, pockets, and drilling operations graphically. Canned cycles, mirror, rotate, repeat, copy, and **Teach** make programming easy. With Math Help, solve for unknown intersections and tangent points.

*G-code Programming:* FANUC style G-codes are standard. G-code text editor is included.

*Mastercam*. Level 1 version 3.21\*\* comes standard on the M-39. Lay down toolpaths on existing CAD drawings, or draw your own. Generate irregular pocket-cleanout with island avoidance. Convert AutoCAD® DXF to Centroid G-codes. Import DXF, CADL, IGES, ASCII, and other CAD files.

*Engraving:* Add Engraving to your M-39 for quick and easy engraving. Cut words, symbols, and numbers. Engraving also includes 20 fonts. Also, you can easily create your own font library from Autocad® DXF and HPGL files.

*Tool Path Graphics:* Check your work graphically. Plot the exact cutter path. View parts in 2D or 3D. Zoom in/out. Scaled axes.

\*\*Limited time offer



*M-39: Tool Path Graphics*

## High Speed Contouring

Centroid's CNC technology provides smooth, continuous movement with no hesitation or gouges. The M-39 processes G-codes at high speed block throughput 600 block/sec. speed with 2000 block accel/decel look-ahead. Even the largest files can be run without hesitation, thanks to the Unlimited Part Program Size feature (optional, standard program size is 640Kb). The M-39 comes equipped with a large capacity hard drive to store all of your programs on the control.



## Deluxe Automatic M-Functions

*Option #1:* Pre-installed contactors for auto spindle CW/CCW, flood, mist, lube, and other extra I/O. *Option #2:* Auto spindle speed control, CW/CCW; pre-wired contactors for flood, mist, lube, and other I/O. *Option #3:* PLC Direct™ Interface let's you program your PLC Direct™ to control up to 64 I/O for automatic control of multi-spindle applications, tool changer, and other special functions.



## M-39 Options

- *Engraving:* Comes complete with 20 fonts; generates G-codes automatically.
- *Digitizing:* Automatically copy any 3D surface and cut the 3D part on your M-39.
- *4th Axis:* Use as a linear or rotary axis.
- *Auto Tool Measure:* TT-1 touch-off block automatically measures tool heights.
- *Unlimited Prog. Size:* Maximum part program size = available hard drive space.
- *Spindle Control:* Automatically turn your spindle on/off and change direction CW/CCW.
- *Spindle S-Function:* Control spindle speed automatically; specify speed in tool library.
- *Probing Cycles:* Automatically find part centers/corners of bosses, bores, webs, pockets.
- *WCS:* Multiple work coordinate systems for multiple fixtures [G28-30, 52-59].
- *Subs & Macros:* Cut one part using a family of part programs [M98, G65].
- *Mastercam*. Level 2: Upgrade from Level 1.
- *MPG Handwheel:* Manual Pulse Generator makes touching off a breeze.



## CENTROID

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