Quotation

CNC control upgrades
New CNC machinery
Custom machine tool applications

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Centroid assembled & tested CNC control system 2015

Machines in Motion, Inc. offers the most common control configuration as a fully wired CNC control system. This allows many shops or hobbyists to bolt on the professional level Centroid control without the expense associated with sending a service technician to your facility.

Bolt on simplicity:

The control electronics are fully wired inside a 2' X 3' electrical enclosure. This will typically mount on the back or side of the machine column. For water jet or router type applications we offer a rolling floor stand.

Servo motors

You will receive 3 new servo motors with encoder feedback. These are already wired into the electrical enclosure. Simply mount each one in place of the old servo motor. About half the time these new motors will mount right up with the same bolt pattern and shaft size. Others may require a simple adaptor plate with hole patterns to match your casting and the motor flange.

Spindle control

Our assembled control system can be ordered in one of two configurations. The first will include CW/CCW power contactors supplying 220 3phase power to your spindle motor. You will see a power cable labeled "spindle motor". Just wire this to your machines spindle motor.

The second configuration is wired to accept your choice of VFD spindle speed controller. Your machine may already have one of these or you can add one during the upgrade. If your power source is 220VAC single phase then I recommend installing a VFD in place of a phase converter. 1. It's quiet 2. It consumes far less power both in use and at idle. 3. You have control over ramping up to speed. 4. This device will brake to a stop faster than coasting to a stop.

Mounting the console:

Included is everything you need to mount the control console. Just drill and tap 4 holes to mount the swivel arm to the machine. The arm is built to mount the console on it's own swivel base. The conduit fitting will thread onto the mounting arm. The cable set then routes through this arm and into the console.

Other devices:

PLC programming is already provided to monitor each axis travel limit switch, power and monitor the lube system, send power to your flood coolant pump, and send power to a spray mist device. Exiting from the bottom of your new electrical enclosure are several cables. Each is labeled with its specific device location such as "lube pump", "Z limits", and so on. The included wiring print will show greater detail for each individual wire color.

Technical support:

When purchasing your CNC control upgrade from Machines in Motion, Inc. you will receive free "lifetime" technical support. No annual fees or phone support charges. In fact we expect you to phone us prior to powering on your control for the first time. A technician will walk you through the setting of parameters related to your specific machine. At the end of this conversation we ask that you generate a control backup (a one button process) then send this file set to us for safe keeping. Should lightning strike, a new computer and these backup files will re-establish your CNC control system to its specific machine configuration.

Price is currently $12,925 For orders that are paid in full at time of order Machines in Motion offers free shipping. This is the ideal control upgrade for older Anilam, Bridgeport, Bandit, or DynaPath controls. We work hard to keep these assembled controls IN STOCK for immediate delivery.

Price increase is expected about May, 2015

Still have questions? Call us today! 714 528-7061