Quotation

PC based CNC controls
Machine tools and
Custom applications

Machines in Motion Inc.
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Office: (714) 528-7061 Fax: (714) 528-4892

SALES – SERVICE – TRAINING

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Prebuilt CNC control system includes the following hardware and features. 2015

M-400S Control including the following items:



M-400 CNC console with Windows7 PC computer and CNC control software loaded.

LCD color display console.

Jog panel with axis jog buttons, spindle control, and other dedicated machine control buttons.

Fused power disconnect is included.

Runs on 110VAC. 220VAC 3 phase power is routed to the spindle motor only.

DSP secondary computer / motion control board with I.O interface.

3 axis of high torque DC servo drives.

Pre-wired cables for common devices such as Autolube, Spray mist, flood coolant power, and axis limit switches





3 specially wound, 29"/lbs. DC servo motors provide greater power at feed rate speeds.

3 high resolution digital encoders mounted and wired into the system.

Centroid CNC controls come standard with all the features required to start making precision CNC parts.



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Software options are available to speed production, increase precision, or add features. Machines in Motion, Inc. does not hide these. You can read about all the control software options on the last page of this document.

Centroid is a professional level CNC control. Centroid controls process standard Fanuc G-code. We also provide a file editor for those who can write G-code programs from memory. For those who need a simpler way to create G-code programs we have included Intercon conversational programming software. Just select the desired canned cycle, fill in your part dimensions, and Intercon will generate the G-code file.

On screen tool path graphing is a standard feature of the Centroid control.
High speed file transfer is available via Ethernet connection or USB thumb drive.
Processing program file sizes up to 4 Mb is standard. Unlimited file size is an available option.
You will receive programming and control use manual, wiring diagrams, and introductory control use training video.

When Machines in Motion, Inc. performs the control installation you will receive up to 4 hours of on-site operator training at no additional charge.
Allow an average of 2-3 days to ship your control.
Installation is typically 2 to 3 days.

Sizing – This is Centroid's most popular control configuration. The motors are sized to power a standard sized kneemill or small bed mill. Larger servo motors are available at an additional cost.

Spindle – Spindle power and control comes in 2 types. When the spindle speed control is provided through mechanical devices (variable pulleys or step pulleys) then a pair of forward/reverse power contactors are wired into the system.
When your machine uses a variable frequency driver (VFD) then this control system will come with a pre-wired cable to be installed onto your frequency controller. This will be needed if you desire programmable spindle speed.

Limit Switches – Each time you power up your machine it must be homed. Axis limits or home switches will provide your machine with a precision location for machine home. Switches are not included but the wiring to your machine's existing switches is provided.

Terms: Since these controls ship from inventory payment in full with your order is expected.

Cost as listed above	$13,890.00 fob Howard PA
M-Function pre-wire	$ Incl.
Freight	$ 365.00
Warranty	12 months

Our internet sale price is only $12,600 INCLUDING shipping within the 48 states. Additional fees typically apply if a lift gate delivery is required.

Professional installation available. Typically $2,995.00 plus travel related expenses.

The above system is fully wired and will run right out of the shipping crate. Motor adaptors (if needed) are not included.



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CENTROID CNC Software and Accessories Price Sheet

New Prices Effective June 3, 2015

Software Description	Part #	Price	Notes
Compression tapping	10620	Free	$195.00 for pre-2.68 systems OR Free with upgrade to 2.68
User Definable Macros and Sub Programs [M98 & G65]	10610	Free	$995.00 for pre-2.68 systems OR Free with upgrade to 2.68
Cutter Compensation	10851	Free	$250.00 for pre-2.68 systems OR Free with upgrade to 2.68
4TH Axis Software	10360	Free	Includes 4th axis programming in Intercon as well.
Extended Multiple work coordinate systems [G54 p1 –p12] (6 WCS included, this option allows an additional 12 WCS)	10600	$305	G54-G59 included Free with 2.68+ software versions
4MB part program size	-	Free	4MB is plenty big enough for the average job shop.
Unlimited part program size	10630	$550	4MB program size is included w/ 2.68+ software versions
Intercon conversational programming (for your CNC control)	10729	Free	Free with standard Mill and Lathe software packages A & L, otherwise $245
Intercon off-line conversational program (for your desktop PC)	10730	$275	
Rigid tapping [G74 & G 84] (includes 10620)	10810	$550	
Coordinate System Rotation (CSR)	10850	$220	
Scaling and Mirroring [G50 & G51]	10625	$220	
DXF in, CAD Drawing Input software	10814	$305	
BCD tool change output (M-39, M-400, T39, or T400 only)	10660	$280	
Engraving software	10740	$500	
Scale Feedback for servo motor positioning.	13164	$1295	(Note: Scale use for DRO is Free, see TB292)
C Axis Software	10611	$1975	
Axis servo motor slaving (two servo motors driving same axis)	13165	$1295	
CNC11-C 5+ axis Simultaneous Software * required export paperwork	13166	$2500 USA	$5000 International
Digitizing & Probing	**Part #**		
DP-4 probing package w/ Probe, Probing software, and CSR (10850)	10405	$1,590	
DP-7 probing package w/ Probe, Probing software, and CSR (10850)	12431	$4,200	
2D & 3D digitizing software *requires 10405 or 10960*	10770	$3,350	
TT-1; Tool touch off kit	10220	$725	
TT-2, Tool touch off kit	12486	$1,350	
Tool room package: (10405) DP4 Probe with probing, (10220)TT-1, and (10600)Work Coordinates	10772	$2,239	
Manual Pulse Generators (MPG)	**Part #**		
100 Step MPG, CNC10 system	10808	$495	
100 Step MPG, MPU11 system	11069	$495	

Software purchases are non-refundable.
This price sheet supersedes all previous pricing.

Questions? Contact a technical advisor directly. 714 528-7061