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TECHNOLOGY GROUP

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Find the *Danaher Motion / Giddings and Lewis MMC* at our website: *Click HERE*

MACHINE & MOTION CONTROL

Machine & Motion Control: Powerful, Simple & Affordable

A Compact, Full-Featured Total Motion Control Solution

The MMC Machine & Motion Control system addresses all your needs, from the ease of single-point programming to the sophistication of multi-tasking and Ethernet connectivity.

MMC offers:

- Integrated machine logic and motion control, reducing application effort and cost.
- The simplicity of a single programming language to solve your entire application.
- Powerful IEC61131 ladder logic for machine control programming.
- A complete motion instruction set ranging from cam profiling to interpolated motion.
- On-line edit of your motion control program to reduce development time.
- Simple and robust I/O expansion to address larger applications.
- Up to 20 axes of analog-interfaced or 8 axes of SERCOS-interfaced servo control.
- Ethernet TCP/IP networking for distributed control as well as remote troubleshooting over the internet.
- Easy-to-use real-time multi-tasking to solve challenging applications.

MMC is the solution

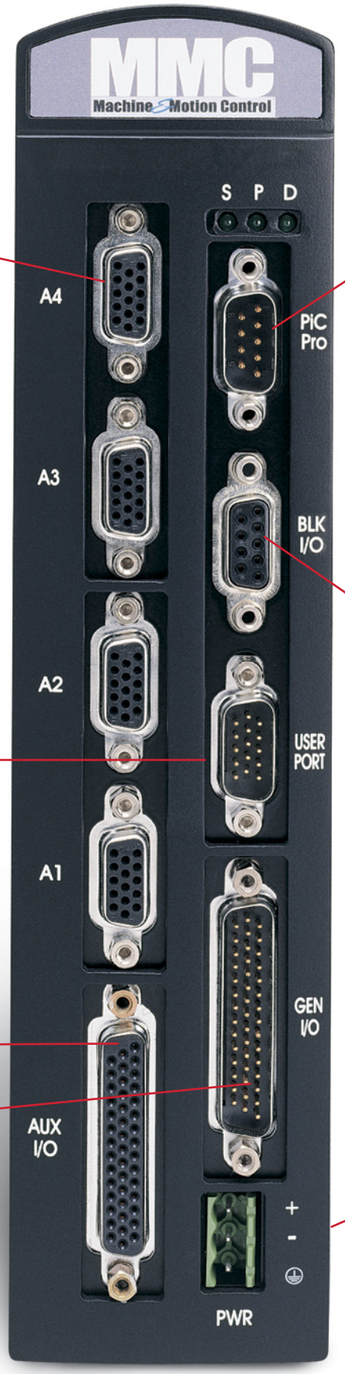
Take advantage of our motion control heritage to ensure success for your next application. With thousands of motion control successes and over forty years of providing control solutions, MMC is built on a solid foundation of servo control experience. Whatever your application, chances are we've done it.

Motion Capability To Meet Your Needs

MMC motion control capability includes positioning, indexing, gearing, cam profiling as well as linear and circular interpolation. Interfacing the MMC to MMC Smart Drive amplifiers is a simple "plug and play" process. Use the optional Two and Four Axis expansion cards with MMC Plus to control up to 20 axes total.



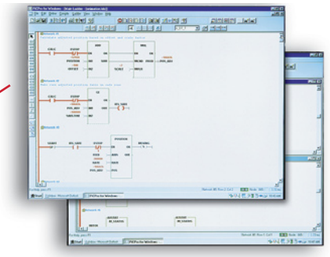
Motion Control



Shown Actual Size

Application-Based Programming Software With Powerful Features

PiCPro™ for Windows lets you choose between graphical ladder and function block or structured text programming to solve your machine logic and motion control application. Use on-line edit, animation, forcing, and cut-and-paste examples to quickly implement your application.



Software

User Serial Port Provides Application Flexibility

Whether your application requires a local operator interface or a serial link to another control device, the MMC's RS232/RS485 serial communications port will make the connection.



Operator Interface

Expand Via Our Block I/O

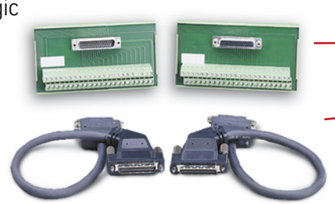
Applications that outgrow the MMC's built-in I/O are easily expanded using Block I/O. A simple four-wire connection provides access to up to 77 I/O blocks that can be mounted locally or up to 200 feet apart. Select from our family of Block I/O modules including discrete I/O, analog I/O and motion I/O.



Expansion I/O

Machine Control is Easy Using Industry Standard Ladder Logic

Use standard ladder logic to control your machine with the built-in, optically isolated MMC I/O. Convenient breakout boxes simplify machine wiring. Advanced features include multi-tasking, interrupt programming and position latching.



Motion & Machine I/O

Access Ethernet TCP/IP and Intelligent I/O Using Convenient Option Modules

MMC was designed with expansion in mind. The optional Ethernet TCP/IP module allows access to plant networks and implementation of distributed control applications. Use the optional DeviceNet™ or Profibus module to control intelligent I/O devices with your MMC application.



Networking

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Complete Control Solutions

To complement the MMC family of controls, G&L Motion Control offers a broad range of products for a single-source machine and motion control solution, including MMC Smart Drive servo amplifiers and motors, a family of distributed Block I/O modules, and operator interface devices. If your application outgrows the MMC, we also offer additional control products. PiCPro is sideways compatible - meaning that with no reprogramming, MMC application programs can be used with the MMC™ for PC or PiC900, which are capable of up to 32 axes of motion control.

MMC Control Family

	Family Member	Description	Dimensions: Inches(mm) W x H x D
Control	MC-A2	2-1/2 axis, analog	2.25(57.15) x 9.59(243.59) x 5.25(133.3)
	MMC-A2 Plus	2-1/2 axis, analog, x3 processor, expandable to 18 axes using MMC-AIO option	
	MC-A4	4-1/2 axis, analog	
	MMC-A4 Plus	4-1/2 axis, analog, x3 processor, expandable to 20 axes using MMC-AIO option	
	MMC-S8	8 axis SERCOS, x3 processor	
Option	MMC-AIO	4-1/2 axis analog-interfaced Axis I/O Module	1.28(32.51) x 9.59(243.59) x 5.25(133.3)
	MMC-E	Ethernet TCP/IP Module	
	MMC-D	DeviceNet Module	
	MMC-P	Profibus Module	

MMC Control Features

MMC Feature	Model: MMC-A2, MMC A2 Plus	MMC-A4, MMC A4 Plus	MMC-AIO	MMC-S8
Analog Outputs	2	4	4	
Encoder Inputs	3	5	5	
Drive Interface Inputs (24VDC)	2	4	4	
Drive Interface Outputs (24VDC)	4	8	8	
Axis Fast Inputs	3	5	5	
Analog Inputs	1	1	1	
General Purpose Inputs (24VDC)	22	28	12	16
General Purpose Outputs (24VDC)	16	16	0	16
Block I/O Capability	yes	yes	-	yes
Option Module Support	A2-2, A2 Plus-4	A4-2, A4 Plus-4	-	2
MMC-AIO Option Module Support	A2-no, A2 Plus-yes	A4-no, A4 Plus-yes	-	-
Ethernet, DeviceNet, Profibus	option	option	-	option
Programming Software	MMC-AIO Option module requires PiCPro for Windows Professional Edition			

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G&L Motion Control

experts in motion™



MMC

MACHINE & MOTION CONTROL



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Solutions by DANAHER MOTION

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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We buy equipment

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