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GE Fanuc Automation

Power Mate H Motion Control

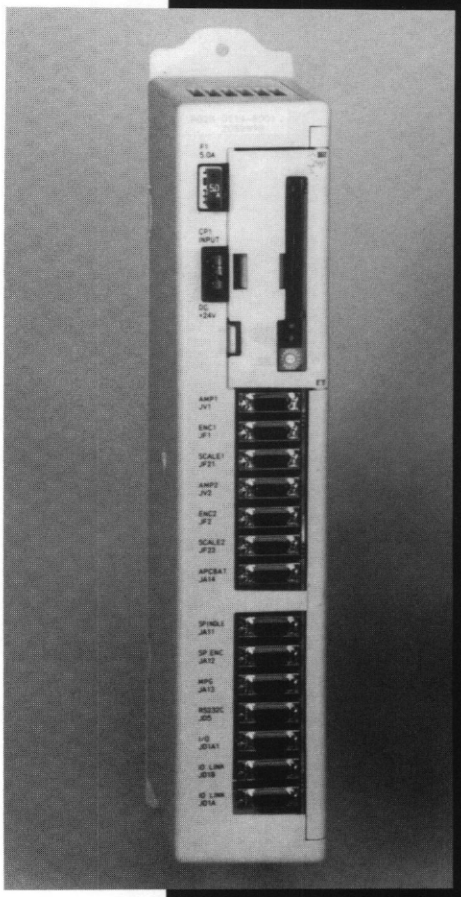
The GE Fanuc Power Mate H is a high performance, all digital motion control for multi-axis applications. It is a suitable control for packaging, assembly and material handling systems.

The GE Fanuc Power Mate H features include:

- ***A compact control unit with high density printed circuit boards***
- ***Up to 6 axes and 6 independent paths; 2 or 3 linear interpolated axes controlled to 0.001mm, 0.0001" increments and traverse speeds up to 240m/min.***
- ***Dynamic allocation of axis to paths through the motion profile data***
- ***Motion programming using EIA/ISO standard commands***
- ***Built-in PMC and I/O to control machine functions using familiar Ladder Diagram programming***

The GE Fanuc Power Mate H is an advanced motion controller suited to applications which require high reliability for maximum up-time. High resolution encoders, variable in-position zones and selectable acc/dec profiles with adjustable time constants move the machine accurately, time after time.

Power Mate uses the same high performance digital servo drives as GE Fanuc CNCs. The all-digital design eliminates tuning of analog variables; "personality modules" are a thing of the past. The system works the way it's set up, even under changing environmental conditions.



Power Mate's built-in programmable machine control (PMC) provides direct control of machine functions with a high speed interface to the motion program. You can use the standard, pre-defined sequence control program or write a custom ladder program. In either case Power Mate integrates motion and sequence control. Through the PMC, custom macros can respond to external devices such as gauges for real-time adjustments to the motion profiles.

Technical Specification Guide

Careful integration of proven technology is the hallmark of Power Mate design

Motion programming, status and diagnostics can be accomplished with a hand held keypad and display unit or an optional 9" monochrome CRT display and keypad which can be shared by up to sixteen Power Mates.

Up to 400 programs may be stored in onboard memory. Additional programs and control parameters can be conveniently stored on MS-DOS® compatible 3.5" floppy disks using the GE Fanuc Handy File, a factory hardened portable file transfer and storage unit. An interface is also provided for a compact flash memory card.

Power Mate may be commanded by GE Fanuc CNCs and PLCs over the high speed I/O Link network. For distributed motion, the I/O Link connects Power Mate to the Series 90™ PLC products, thus marrying the advantages of high performance PLCs and operator interfaces with high performance motion control.

Careful integration of proven technology is the hallmark of Power Mate design. All the elements are designed to work together, reliably delivering peak performance while reducing system engineering costs.

Max Controlled Axes	6
Simultaneous Controlled Axes	3
Axis Type	Linear or Rotary
Resolution(best available option)	0.001 mm 0.0001 inch 0.001 deg
Look Ahead Feed Forward	standard
Switchless Ref. Point Return	standard
Follower to Ext'l Encoder (MPG)	standard
Machine Interface Options	
Built-in I/O	32in/24 out
I/O Link	up to 1024 I/O
High-Speed (Skip) Inputs	3
PMC (µS per step/max steps)	
PA3	1.5µS/12K
Custom Macro	standard
Macro Executor	option
Part Program Storage (max)	256K (160m)

PCMCIA Memory Card Interface	standard
Program Load/Store	RS232
Hand-Held Programmer	option
CRT Display	option
Shared by up to 16 controls	standard
Ladder Monitoring	standard
Ladder Editing	option
Servo setup	standard
Alarm/Operation History	standard
Stored Pitch Error Comp.	standard
Linear Interpolation	standard
Feed Acceleration/Deceleration	Linear, Bell, Exponential
Traverse Acceleration/Decel.	Linear, Bell
Torque Limit	standard
Speed Changing Function	option
Interrupt Type Custom Macro	option

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