

Specifications

Features	4 Models		Options*	
	MM1 / MM3	MM5 / MM7		
Open Architecture	Hardware	Single PC Pentium Motherboard/Processor		
	Software	Single Operating System - Windows NT		
Value Priced	High Features/Low Cost	1/3 Cost of Conventional CNC with similar capabilities/features		
Screens	Flat TFT Screens	10.4"	12.1"	
	Flat TFT Touch Screens			
Axes	Number of Axes	SERCOS - 8 Analog - 4		
	Gain (typical) ISO	Up to 5	Up to 15	
Performance	Block Throughput ***	112 / 225 blocks/sec	450 / 1800 blocks/sec	
	Dynamic Block Buffer	50 blocks	1000 blocks max	
	High Speed Accurate Machining	Self Adapting algorithm improves accuracy by 5 times		
I/O	Inputs/Outputs	SERCOS Engine has additional 24 In/16 Out		
	MachineMate Modular I/O	24 In/16 Out	48 In/32 Out	
	PLC I/O			
	Fieldbus			
	IEC 1131 PLC Languages	Ladder Diagram Structure Text	Function Block Diagram Instruction List Sequential Flow Chart	
	Power Flow Monitoring	Ladder diagram and real-time monitoring		
	Software	Configuration	Lathe Mill	
Features		Return to path Parallel axis logic Reverse program execution Logic Analyzer Spline & Helical Interpolation (Mill)		
Machine Error Compensation		1000 points	4000 points 16000 points	
Cutter Compensation		2 1/2 D	3 D	
Adaptive ART**		2 1/2 D Command Filter	3 D Command Filter	
Adaptive Look Ahead		2 1/2 D	3 D	
Transformations Including Helical Interpolation				
Tool Path Graphics		Included		
Easy Integration		Built-in Functionality	Function Keys or Touch Screen reduces application programming	
		Built-in Machine Routines	Routines like Machine Reference, jogging are built into executive	
Robust CNC System	System Monitors	Temperatures, Voltages, and Watchdog timer assure safe system operations		
	Environmentally Protected	Stainless steel enclosure and IP65 front panel, and CE assures a Robust system		

* Some are future enhancements or require a faster processor. **ART is Advanced Regulation Technology a self adjusting automatic fine tuning of the relevant control parameters to increase accuracy and speed of the machine. ***Block Throughput is measured with 8-axes simultaneous motion. Specifications subject to change without notice. Consult your sales representative for a complete specifications list. The right to modifications for technical improvements is reserved. All trademarks are the property of their respective owners.

MACHINEMATE's ideal for all your machine control applications



MACHINEMATE® ... Robust PC-Based Control

Major Benefits:

- Innovative High Performance Technology
- Fully Open Architecture CNC
- Fulfills all Technical Requirements from Standard to High Tech
- High Performance - Low Priced CNC

Outstanding Features

- Analog or SERCOS Drives Supported (Max. 16 Axes Analog /32 Axes SERCOS)
- IEC 1131 PLC Application Programming Tools
- Digital Discrete I/O (Max. 792 Inputs/528 Outputs)



Open Architecture

MACHINEMATE is a modern open architecture CNC that fulfills all technical requirements from standard to high tech applications. With the advent of *MACHINEMATE*, a high performance CNC does not have to be high priced.

Modern PC Technology

The compact and modular *MACHINEMATE* allows installation on new machines or retrofits on older machines. *MACHINEMATE* CNC series is based on standard PC technology, using a Windows NT® operating system and a real-time kernel.

An OEM's Control

MACHINEMATE not only saves you money on its initial purchase, but you will also save money when you do the application engineering to apply the CNC. The machine application software is simplified by having standard type machine reference and jogging built into the CNC executive. The PLC programmer does not have to write the interface software; just configure it for the specific machine.

Single Source Solutions

MACHINEMATE offers solutions for industrial automation from one state-of-the-art source, and can provide other components to include the servo motors and amplifiers. We also provide spindle motors, spindle drives, feed-back devices and other system components.

Side view of a *MACHINEMATE* PC-Based Control System

This view demonstrates the compactness of the unit and its easy connectivity. The front panel measures 19" (W) x 12.28" (H) and the unit is only 9.63" (D).



Front View

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