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Find the *Yaskawa SMC 2000-8I* at our website: ***Click HERE***

YASKAWA
Energy in Motion™

SMC-2000 Multi-Axis Motion Controller

The SMC-2000 multi-axis motion controller is packaged for stand-alone operation. Features include: coordinated motion profiling, programmable and dedicated digital 24VDC I/O, analog inputs, and non-volatile memory for stand-alone operation. Two RS-232/RS-422 communication ports are available for interfacing with a PC, PLC and Operator Interface.

Superior performance capabilities include:

- 32-bit microprocessor
- 8 MHz encoder input frequency
- 16-bit DAC output resolution
- Multi-tasking up to 4 programs
- Position accuracy of +/-1 quadrature count.







This powerful controller provides several modes of motion control, including point-to-point positioning, linear and circular interpolation, electronic line shafting and cam profiling.

The SMC-2000's polarized connectors and pre-wired cables allow simple plug and play connection to any Yaskawa servo.

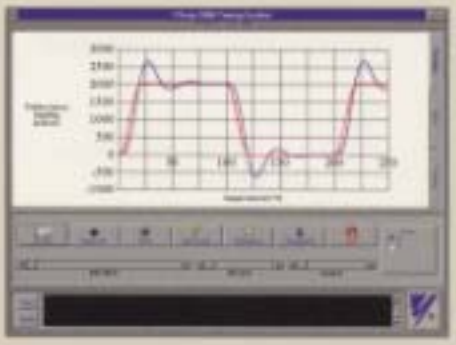
In addition to its full range of powerful features, programming is made easy with the use of "YTerm-2000", Yaskawa's Windows®-based software for programming, set-up and troubleshooting.

YTerm-2000 features:

- Dual programming screens
- Auto-tuning and graphical manual tuning
- System monitoring screens
- Context-sensitive help
- Direct access to SMC-2000

Programming tools include 147 simple instructions with up to 254 user-defined variables. Position, torque, velocity and other system variables can be used and changed dynamically within the program.

For economical system configuration, the SMC-2000 is designed in one, two, four and eight-axis configurations. Dual encoder inputs allow for backlash compensation or electronic gearing from an external source.



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YASKAWA
Energy In Motion™

SMC-2000 Specifications

Minimum Servo Loop Update Time: 2-axis	SMC-2000 (2-axis) -- 375 µsec
4-axis	SMC-2000 (4-axis) -- 500 µsec
8-axis	SMC-2000 (8-axis) -- 875 µsec
Position Latch Speed:	25 µsec
Position Accuracy:	+/- 1 quadrature count
Phase-locked Accuracy:	Maximum 0.003%
Multi-tasking Capability:	Up to 4 programs
Inputs/Outputs (24VDC):	8 inputs/8 outputs (16 in/16 out for 8-axis unit)
Extended I/O Option:	40 in/42 out (dry contact 1.25 Amp max carry)
Absolute Encoder Option:	8-axes supported
Dedicated Inputs:	Home and Limit Switches for each axis
Analog Inputs:	7 @ 14-bit/1.2mV Resolution +/- 10V
Power Supply:	Single-Phase 90 to 260 VAC 50/60 Hz
Position Range:	+/- 2147483647 counts per move
Velocity Range:	Up to 8,000,000 counts/sec.
Velocity Resolution:	2 counts/sec.
Motor Command Resolution:	16-bit/305µV Resolution +/- 10V
Variable Range:	+/- 2 billion
Variable Resolution:	$1 \cdot 10^{-4}$
User-Definable Array Size:	8000 elements
Total Program Memory Size:	1000 lines x 80 characters

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