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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.



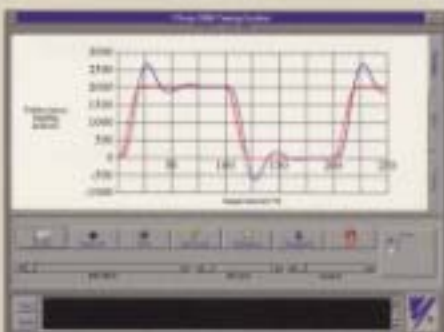
programming, set-up and troubleshooting.

YTerm-2000 features:

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

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

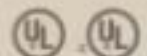
Programming tools include 147 simple instructions with up to 254 user-defined variables. Position, torque, velocity and other system variables can be used and changed dynamically within the program.



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

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.

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





SMC-2000 Specifications

Minimum Servo Loop Update Time: 2-axis	SMC-2000 (2-axis) -- 375 μ sec
4-axis	SMC-2000 (4-axis) -- 500 μ sec
8-axis	SMC-2000 (8-axis) -- 875 μ sec
Position Latch Speed:	25 μ sec
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/305 μ V Resolution +/- 10V
Variable Range:	+/- 2 billion
Variable Resolution:	1 • 10 ⁻⁶
User-Definable Array Size:	8000 elements
Total Program Memory Size:	1000 lines x 80 characters

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