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The New Art of Stepper Motor Control

MODEL SS-4544

COORDINATED 4-AXIS MOTION CONTROL SYSTEM

HARDWARE FEATURES

- 44 Volt Current Drive to 5a peak
- Programable Currents for a-Holding b-Ramping c-Travel d-Manual
- Eight bit **Micro-step** resolution
- Full Step rate up to 25,000/sec
- Bi-polar 4-wire D-Mos Drive
- Electronic fusing for each Axis
- Universal Power input 90-265vac
- Convection and Fan Cooling
- Axes Limit and Encoder inputs
- RS-232 Control 115.2kBAud
- 5th Axis for **Laser Modulation**
- 25 Mips Risc Microprocessor
- 32 Megabyte Motion Memory
- No jumpers, switches, or pots
- 2 Axes encoder training inputs
- Safety interlock input
- RS-485 Networking to optional I/O, Keyboard, Display, Etc.
- Expansion Slot for custom interfaces, CAN, Ethernet, etc..

SOFTWARE FEATURES

- ◆ Coordinated 3D Moves
- ◆ Continuous Path Motion
- ◆ Multiple Ramps for S-curves, etc.
- ◆ Preset and Variable Speeds
- ◆ Parameterized Homing Routines
- ◆ Interactive Modes for Positioning
- ◆ Emergency Stop
- ◆ Coordinated 5th axis for Laser modulation, including Tickle and power linearization.
- ◆ 32 bit Positioning (22.10 steps)
- ◆ Open or Closed Loop Operation
- ◆ Sample programs in C, FORTH, and PASCAL languages for low level control of one or more units
- ◆ Can store multiple programs locally and run stand alone.
- ◆ High level application programs, interpreters for HPGL and G-code.
- ◆ Windows95/98/ME printer driver

APPLICATIONS - MACHINE CONTROL, ROBOTICS, LASER OR MECHANICAL ENGRAVING, DISPENSING, DRILLING, ROUTING, MILLING, CUTTING, INSPECTION, MATERIAL HANDLING, ETC.

OEM Custom Solutions

We will work with original equipment manufacturers to either integrate our standard motion controllers into their product or do custom solutions..

When volume justifies it we will license our design and assist in your system development. We can also do turnkey designs and manufacturing of your product in its entirety including ASIC development to put it all on a chip..

Custom software solutions are also available. We have done complex drivers in DOS, Windows, and various 8051 embedded environments.

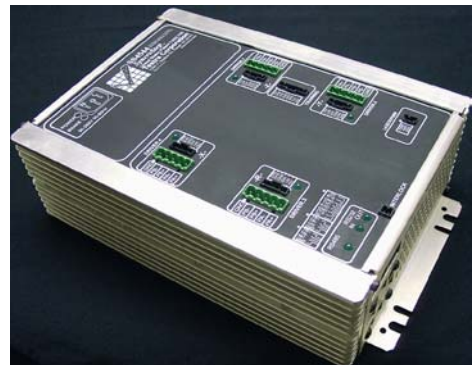
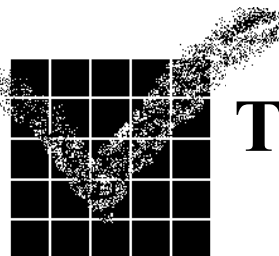


Photo of SS-4544 4-axes Motion Control System

\$1595 @ Qty 1

SyncroStepping * All of our motion systems utilize a method that synchronously, microstep, sample and correct the current on multiple axes of control at a 50 khz rate resulting in servo like smoothness of control to a stepper motor system.



Motion Systems Division

* US Patent
5,650,705

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