

2nd Generation design now available

## DeskCNC, SV-500, DC servo motor driver

utilizing step and direction control software

### Powerful and Accurate Closed Loop System

5 amp operating current,

Automatic pwm over current limited at 6.5 amp

Short circuit protection

Over temperature output current reduction w/ shutdown.

12-30 V power supply

Quadrature encoder feedback, requires 5 volt ttl encoder.

Microprocessor controlled w/ digital PID compensation with deadband (motors quiet at standstill)

4X step multiplier for smoother motion control

Visual (LED) following error indication for simplified servo tuning

+/-500 count lock range (can be factory programmed from 1-32000)

256 kHz maximum step rate

Lockout enable circuit

0-80C operating temperature

Latest technology - Low  $R_{ds}$  mosfet output H bridge

Blue LED fault/status indicator

Oversized heatsink

2.0 x 1.6 x .6 inch overall dimensions (51 x 41 x 15 mm)

Weight 1.0 oz (28.4gm)

.125 (3.1mm) inch mounting holes.

**Removable terminal connector for motor and power and headers for encoder and s+d signals. Pins and connectors included**



#### Application:

Suitable for new desktop CNC mills, lathes, and routers such as Sherline and Taig.

Powerful and accurate closed loop system replacement for stepper controlled machines such as Maxnc or other cnc retrofitted machines.

Can also provide drive power for 3D scanning and surface measurement machines.

Specifications subject to change without notice. Believed to be accurate at time of publishing

FAS 11/16/04