

## MightyDrive 400



OUTPUT STATUS  
INDICATORS

FEEDRATE  
OVERRIDE

POWER  
SWITCH

### **FEATURES AND BENEFITS**

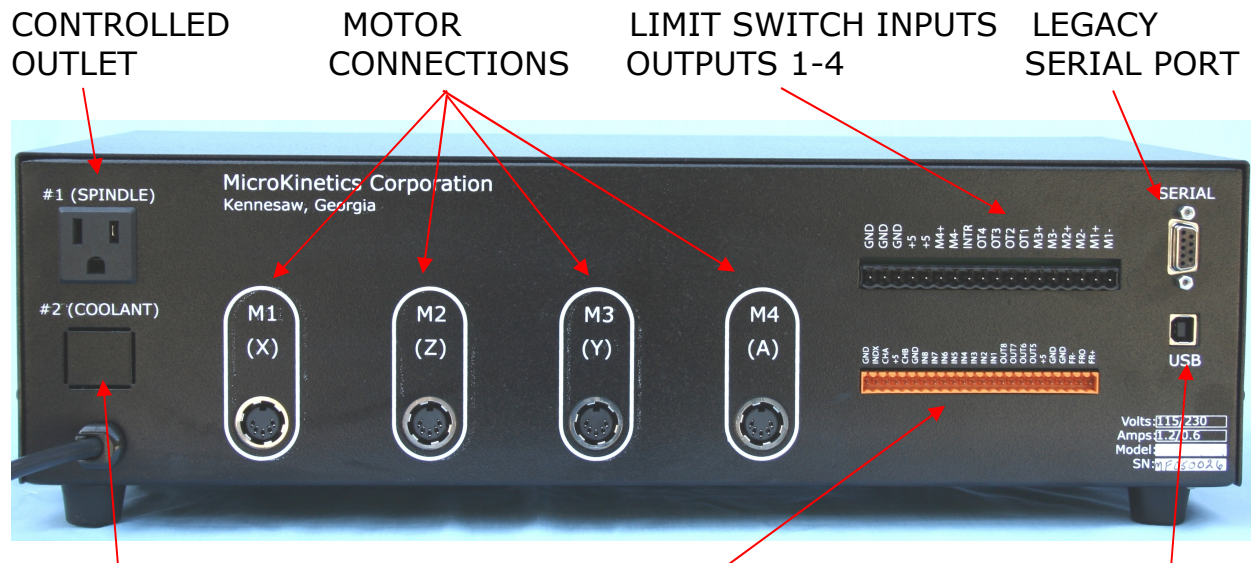
- All aluminum construction offers light weight solution
- Completely wired and tested system for ease of installation
- High CFM fan increases reliability
- Externally removable and washable fan filter eases maintenance
- Solid state relay for AC control allows software control of external devices
- Feed rate override on front panel for convenient speed control

The MD400 is an all-in-one intelligent drive subsystem that houses the MN400 motion controller and the MightyDrive electronics. This unit has a built-in power supply and drivers for up to 4 stepper motors, and a software-controlled AC outlet. This is typically suitable for stepper motors from 30 to 175 oz-in. Standard output current is 1.2 amps per phase @ 40 vdc and other current settings are selected with appropriate resistors. This system has input and output connection terminals for digitizing probes and robotics as well as a safety shield interrupt input. This system can be used with 115 VAC or 230 VAC.

<b>Product</b>	<b>Order #</b>
<i>MD400 – 1 axis</i>	<i>999-3600-701</i>
<i>MD400 – 2 axis</i>	<i>999-3600-702</i>
<i>MD400 – 3 axis</i>	<i>999-3600-704</i>
<i>MD400 – 4 axis</i>	<i>999-3600-705</i>

**SPECIFICATIONS:**

Drive circuit	Bipolar constant current
Chopping rate	20 kHz nominal
Voltage	40 VDC
Output current	Up to 1.2A per phase
Stepping mode	Half/full
Current cutback	Half current after 1/2 second of idle
Limit switch inputs	8 TTL compatible, active low
Shield switch input	1 TTL compatible, active low
Auxiliary inputs	8 open-collector
Control outputs	Up to 2 solid-state relays; up to 8 open-collector outputs
Motor control outputs	4 connections per axis
Working temperature range	32°–158°F (0°–70°C)



OPTIONAL SECOND CONTROLLED OUTLET

ENCODER INPUTS  
 AUX INPUTS 1 – 8  
 OUTPUTS 5 – 8  
 FEED RATE OVERRIDE

USB PORT

