



## P2 Controller



### Applications

- HDD media certification
- Start/stop striation tests
- Air bearing spin stands
- Magnetic parametric measuring systems
- Laser texture systems
- CD Mastering systems
- Optical grinding machines
- Wafer inspection systems

## P3 Controller



### Applications

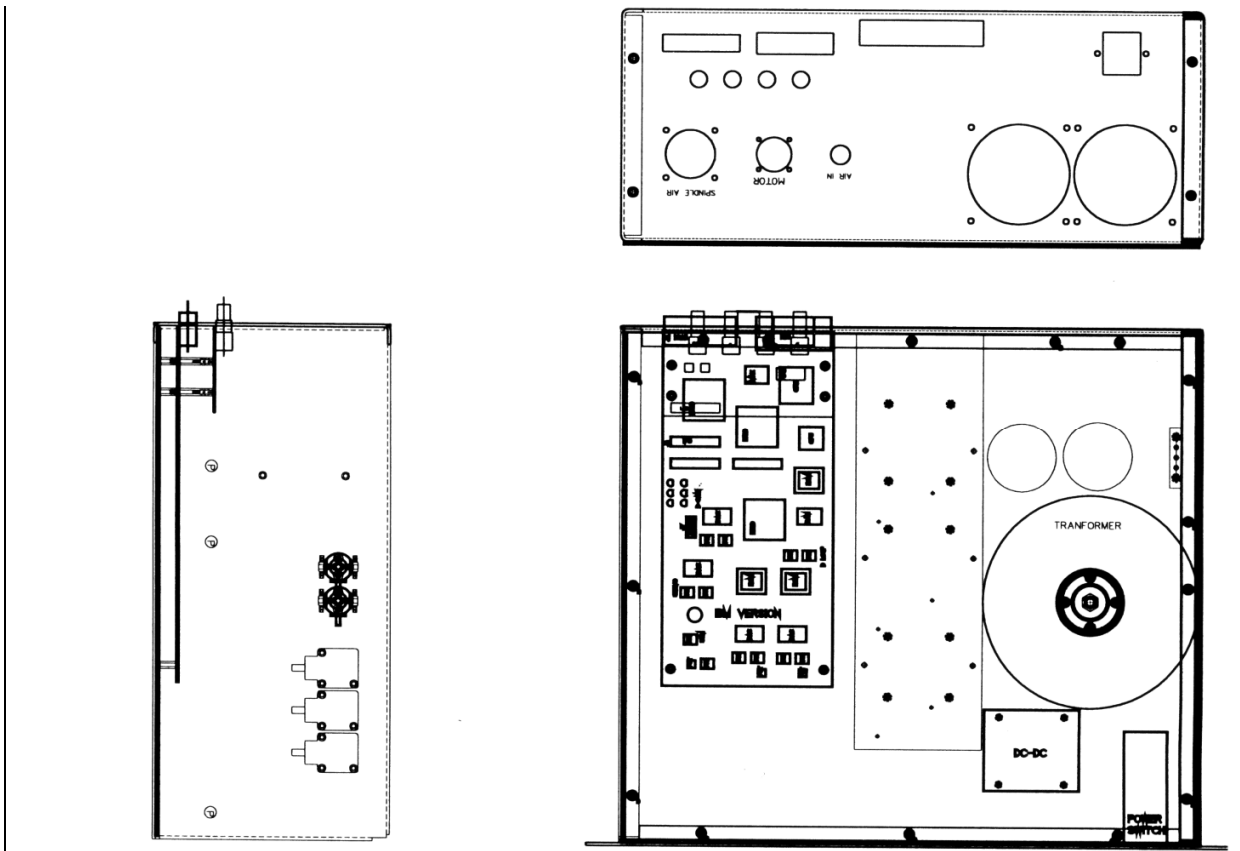
- HDD media certification
- Start/stop striation tests
- Air bearing spin stands
- Magnetic parametric measuring systems
- Laser texture systems
- CD Mastering systems
- Optical grinding machines
- Wafer inspection systems

## M1 Dual Axis Controller



### Applications

- HDD media certification
- Start/stop striation tests
- Air bearing spin stands
- Magnetic parametric measuring systems
- Laser texture systems
- CD Mastering systems
- Optical grinding machines
- Wafer inspection systems



	P2	P3	M1
<b>CONTROLLERS *</b>			
Axis control	Single	Single	Dual
Absolute position mode	Yes	No	Yes
Output capacity	20,000 rpm	>20,000 rpm	>20,000 rpm
Bi-directional speed regulation	+/- .0001%	+/- .0001%	+/- .0001%
Servo loop	Stand alone	Digital	Digital
Safety	External fault	External fault	External fault
Interface	IEEE or RS232	IEEE or RS232	IEEE or RS232
Single access encoder	Front & rear	Front & rear	Front & rear
Internal & external reference control	Yes	Yes	Yes
Vacuum clamp monitoring	Yes	Yes	Yes
Compatible w/ air and ball bearing	Yes	Yes	Yes
Maximum output current	10 Amps	10 Amps	10 Amps 1 Axis
Continuous output current	2.2 Amps	3.3 Amps	3.3 Amps 1 Axis
Maximum output voltage	80 Volts	80 Volts	80 Volts
Input voltage (50/60 Hz)	115/230 VAC	115/230 VAC	115/230 VAC
Input fuse	250V/7A	250V/7A	250V/7A
Operating temperature	0-50 degrees C	0-50 degrees C	0-50 degrees C
Internal forced air-cooling	2 fans	1 fan	1 fan
Dimensions	19"x7"x15"	19"x3.5"x15"	19"x4.2"x15"
Net weight	20 Lbs.	12 Lbs.	12 Lbs.
Speed range	100-20K rpm	100-20K rpm	100-20K rpm
Speed control	0.0001%	0.0001%	0.0001%

\* Due to continuing improvements in design, specifications are subject to change without notice.