



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

# MCS MOTION CONTROL SYSTEMS

## Products

Amplifiers  
Motors  
Mature Products  
Customization  
Applications

## Motion Control Systems

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Engineering Services and  
Product Assistance  
[1-540-731-0540](tel:1-540-731-0540)

## SA500, SA1000, SA2000

MCS servo systems are field proven in a wide variety of direct axis drive and spindle drive applications. We offer the industry's most flexible options for customer control including analog velocity and transconductance loops, frequency lock loops and RS232/RS422 interfaces. Commutation options include resolver, incremental encoder or Hall effect devices. Internal power supplies and complete protection circuitry simplify integration into your application. When coupled with MCS designed brushless DC motors, these systems will give you more power and better performance in a direct drive solution.



## Features

- Above audible PWM
- Very high bandwidth, extremely low deadband
- Four quadrant operation
- Panel mount enclosures
- Front panel status indicators
- Latching fault monitor
- Protection circuitry
- Resolver, incremental encoder or Hall effect commutation
- CE available

## Options

- RS232 interface
- RS422 interface
- Frequency lock speed control
- External regen load

## Performance and Characteristics

Amplifiers Performance	SA500	SA1000	SA2000
<b>Cont./Peak Output Current</b>	15/15 Amps	30/30 Amps	50/60 Amps
<b>Cont./Peak Output Power</b>	5/5 KVA	10/10 KVA	17/20 KVA
<b>Input Voltage</b>	200-240 VAC 3 phase		
<b>DC Bus Voltage</b>	280-340 VDC		
<b>PWM Frequency</b>	18-50 KHz		
<b>Bandwidth</b>	Up to 4 KHz		
<b>Efficiency</b>	> 95%		
<b>Deadband</b>	< 250µV (Typical)		

<b>Speed Regulation</b>	0.1% (0.001% available)
<b>Internal Tach Linearity</b>	0.1%
<b>Gain (Open Loop)</b>	1000 Amp/Volt (Typical)
<b>Protection Circuitry</b>	Bus Overvoltage, Amplifier Over Temp, Motor Over Temp, Over current, Logic Supply Voltage
<b>Command Differential</b>	±10V
<b>Enable</b>	Open Collector
<b>Position Word</b>	10, 12, 16 Bits
<b>Status Output</b>	TTL compatible

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