



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*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at 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 ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com

Axi-dyne[®] MSS Microstepping Controller/Drive

FEATURES / SPECIFICATIONS



Tol-O-Matic's MSS stand-alone microstepping controller/drive system is absolutely the simplest and most cost-effective way to provide single axis motion to Tol-O-Matic's stepper motor/actuator systems. The Tol-O-Motion™ MSS software allows sophisticated programming to be achieved by even the most novice user, through icons arranged in a simple, easy to follow format. Once programmed over the RS232 the PC may be removed and program interaction achieved through I/O or the PIT (Panel Mount User Interface).

COMPATIBILITY:
 SYSTEM: STEPPER
 MOTORS: MRS
 DRIVE: MSD
 MSS
 CONTROLLER: MSS
 INTERFACE: PIT

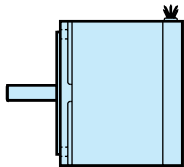
MSS FEATURES

- Motor Current: 0.5 to 5.5 amps/phase, (software selectable)
- Drive Voltage: 80 Vdc (from internal linear, toroidal power supply)
- Input Voltage: 115 or 230 Vac (switch selectable)
- Microstep Resolution: 13 resolutions, 2000 to 50800 steps/revolution (software selectable)
- Automatic idle current reduction: 0%, 25%, 50% or 100% (software selectable)
- Connectors: pluggable, screw terminal connectors are included.
- Two optically isolated limit switch inputs can be used as inputs, (7 - 8)
- CW and CCW jog inputs can be used as inputs, (5 - 6)
- Four general purpose, opto-isolated inputs
- Drive fault output (activated by overcurrent or over-temperature condition)
- 3 general purpose, optically isolated outputs for interfacing to other equipment
- Uses Tol-O-Motion MSS Software with absolute positioning, single-step program execution
- CE compliant

MSS SPECIFICATIONS

Power	
Input Current (AC line):	Varies with motor & load
	6.0A max. at 115 Vac
Input Voltages (AC line):	115 or 230 Vac, 50-60Hz (switch selected)
Input Fuses	
(AC line):	6.3A time lag, TR5 style
Motor Current Output:	0.5 - 5.5 A / phase peak
Internal Bus Voltage:	80 Vdc (unregulated)
Parameter Ranges	
Distance:	1 to 16,000,000 steps
Speed:	.025 to 50 revolutions per second (in any microstep resolution)
Acceleration:	1 to 3000 rev/sec/sec (limited by accel torque)
Deceleration:	1 to 3000 rev/sec/sec (set independently from acceleration, limited by decel torque)
Time Delays:	0.1 to 25.5 seconds
Microstep Resolution:	2000-50800 steps/rev
Inputs*	
Input 1-4, Optically isolated,	5 - 24 Vdc, 20 mA max
CW Jog, CCW Jog:	2200 Ohms internal resistance
CW Limit, can be configured for	sinking (NPN)
CCW Limit:	or sourcing (PNP) signals.
Outputs*	
Outputs 1-3:	Optically isolated, 24 Vdc max, 100mA
Environment	
Maximum Case Temp.:	167° F (75° C)
Ambient Temp. Range:	32° to 113° F (0 to 45° C)

* NOTE: External 5-24 Vdc power supply required for operation.



MICROSTEPPING

MSS Controller/Drive

- Features
- Specifications

Axi-dyne[®] MSS Microstepping Controller/Drive

PROGRAMMING

MSS PROGRAMMING SOFTWARE



Main Programming Screen

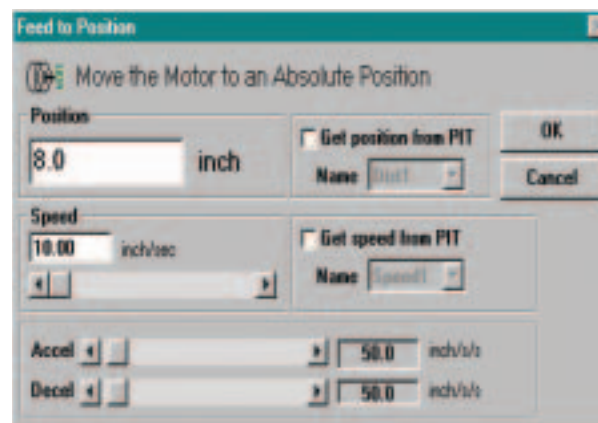
Programmable by RS232 connection to a PC running Windows 95, 98, NT, 2000 or XP. Programming software and cable included. Programming is very easy to learn and requires no previous programming experience.

Programs can be up to 100 lines long. Instructions are powerful, so 100 lines can provide the user with a sophisticated program. For example, in one program line the motor can be moved until a sensor changes state, then fed a precise distance to stop, delayed and returned to the starting point. Distances, delays, feed and return speeds, acceleration and deceleration parameters are all included in the single program instruction. The same move can take 10 program lines or more on other indexers. There are a total of 16 different instructions, including input/output, branches, loops and motion commands. These instructions can be combined to make a nearly infinite variety of programs, meeting the demands of a wide range of applications.

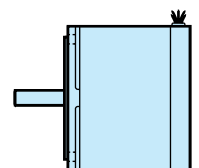
The main programming screen is shown above. On the right of the screen are the 100 program lines. In the center are command buttons and on the left are global parameters such as microstep resolution and jog. Clicking on a program step icon brings up a sequence of dialog boxes, making program selection and parameter setting easy.

Once programmed, the cable can be removed and the indexer-drive will run stand alone. Programs and parameters are stored internally in non-volatile memory. Upon power up, the drive automatically senses the connection to the Windows programming software. If no connection is detected, the program is automatically executed starting on line 1.

The MSS also allows program interaction to take place using the PIT user interface.



Dialog box for setting Feed to position



MICROSTEPPING

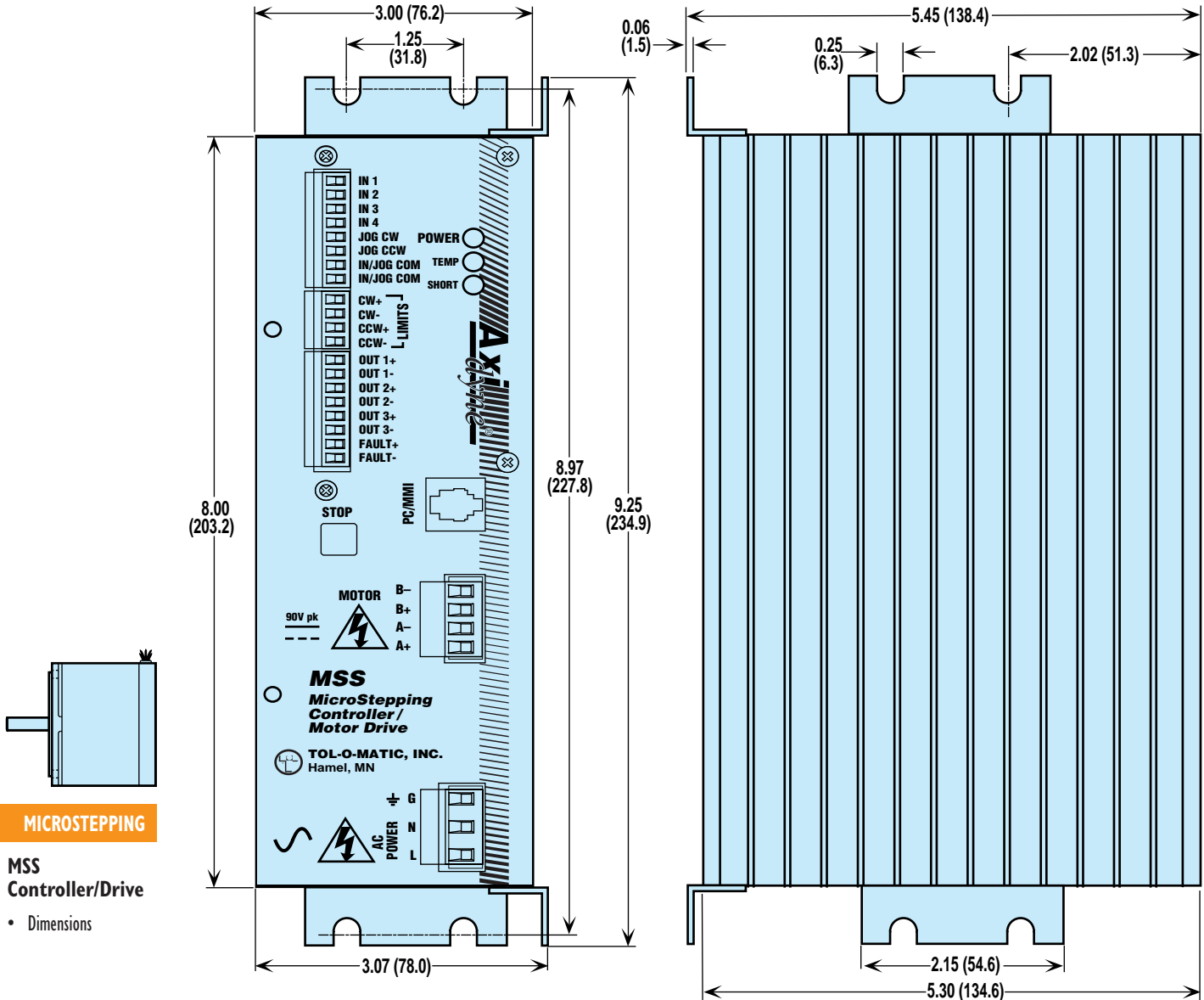
MSS Controller/Drive

- Programming

Axi dyne[®] MSS Microstepping Controller/Drive

DIMENSIONS

MSS MICROSTEPPING CONTROLLER/DRIVE



MICROSTEPPING

MSS Controller/Drive

- Dimensions

Unless otherwise noted, all dimensions shown are in inches (Dimensions in parenthesis are in millimeters)



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*SM REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at 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 ↗

LOOKING FOR MORE INFORMATION?

Visit us on the web at www.artisanng.com ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

Contact us: (888) 88-SOURCE | sales@artisanng.com | www.artisanng.com