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MS-Series
Programmable Micropositioners



CASCADE™ MICROTECH

The Alessi MS-series programmable micropositioners are designed for semiconductor wafer-probing applications on Alessi stations where high accuracy and repeatability are required.

Features

- Provides 3 axes of linear motion with either 1 in. or 2 in. (25 mm or 50 mm) of travel
- True linear motion for ultra precise probe-tip placement
- Active, coaxial, or triaxial probe compatibility
- Small size allows up to 6 micropositioners to be fitted to an Alessi 8-inch (203 mm) station
- Positioners on Alessi stations can operate with a host computer or with an inexpensive ERJ-02 joystick
- Right or left-hand configurations for convenience and ergonomics

(front photo shows an MS1-44/L with MMP-51 straight probe mount, top and MS1-44/R with MMP-01)

Benefits

- One-tenth micron step size offers the resolution required for today's precision probing
- Custom-made miniature stepper motors and drive systems minimize unit size
- Stepper motors have "hands-on" override for manual operation
- Orthogonal movement permits consistent motion in relation to the streets and rows of the DUT

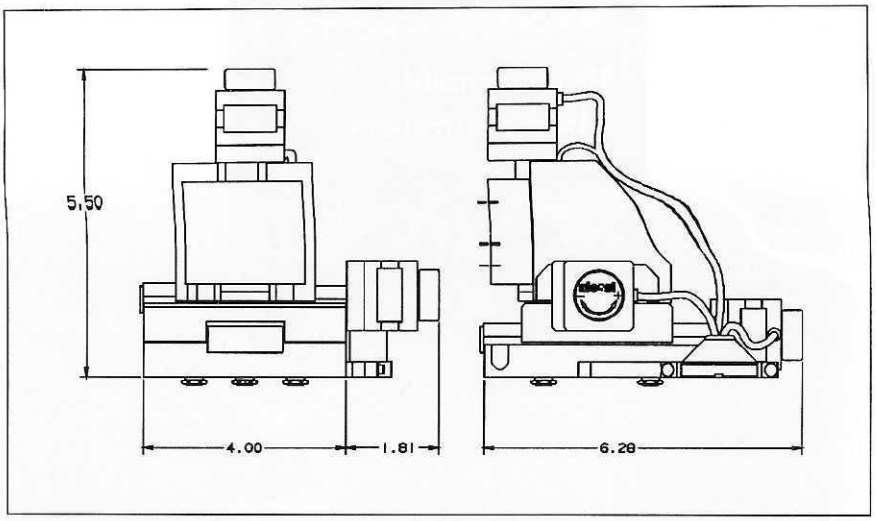
System Requirements

For REL-5500 and REL-6000 Series stations:

Requires 1 ECA-53 expansion drive card for each micropositioner and either a ERJ-02 joystick or the ECH-55 computer

For REL-4800-Series Stations:

Requires ECX-56 Controller, 1 ECA-53 Expansion Drive Card for each micropositioner and either a ERJ-02 joystick or the ECH-55 computer and ESW-56 control software



Side and back view of an MS-series positioner. Dimensions are in inches.

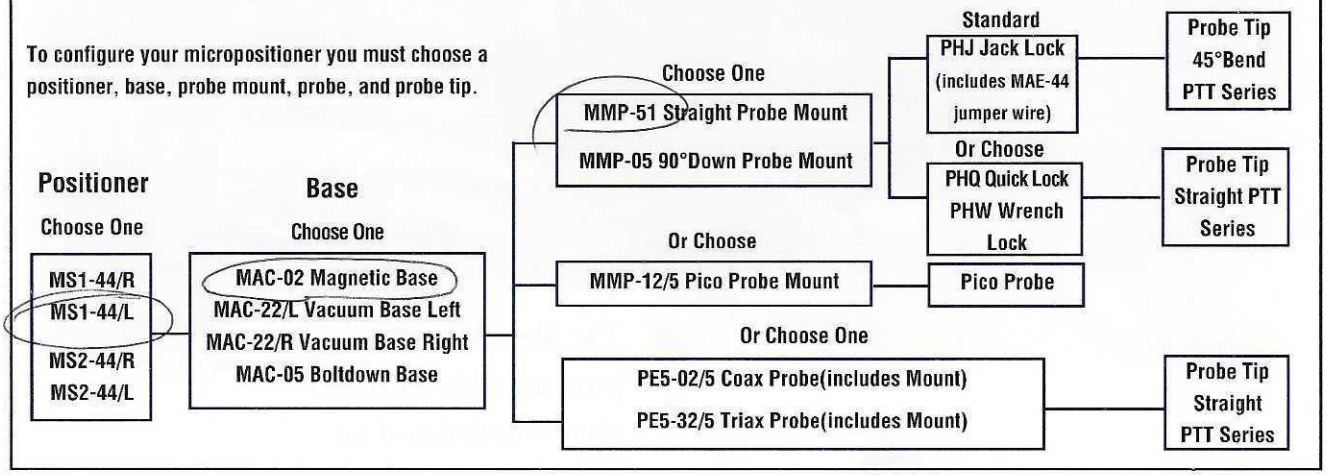
Ordering Information

1 in. (15 mm) programmable high-resolution micropositioner, 400-step motors,
left.....*MS1-44/L*
right *MS1-44/R*
2 in. (50 mm) programmable high-resolution micropositioner, 400-step motors
left.....*MS2-44/L*
right.....*MS2-44/R*

Specifications	MS1-44	MS2-44
Excursion X, Y, Z	25mm x 25 mm x 15 mm	50 mm x 50 mm x 15 mm
Speed	1 mm/sec	1 mm/sec
Leadscrew	0.4 mm	0.4 mm
Resolution	0.1 µm	0.1 µm
Repeatability	1 µm	2 µm
Accuracy	1 µm	3 µm
Motor	400 step 2 phase	400 step 2 phase

Configuration Guide for 8-in. Alessi Stations

To configure your micropositioner you must choose a positioner, base, probe mount, probe, and probe tip.



MM02

CASCADE™ MICROTECH

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Advanced Microelectronic Probing Solutions

MSDS-0695
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