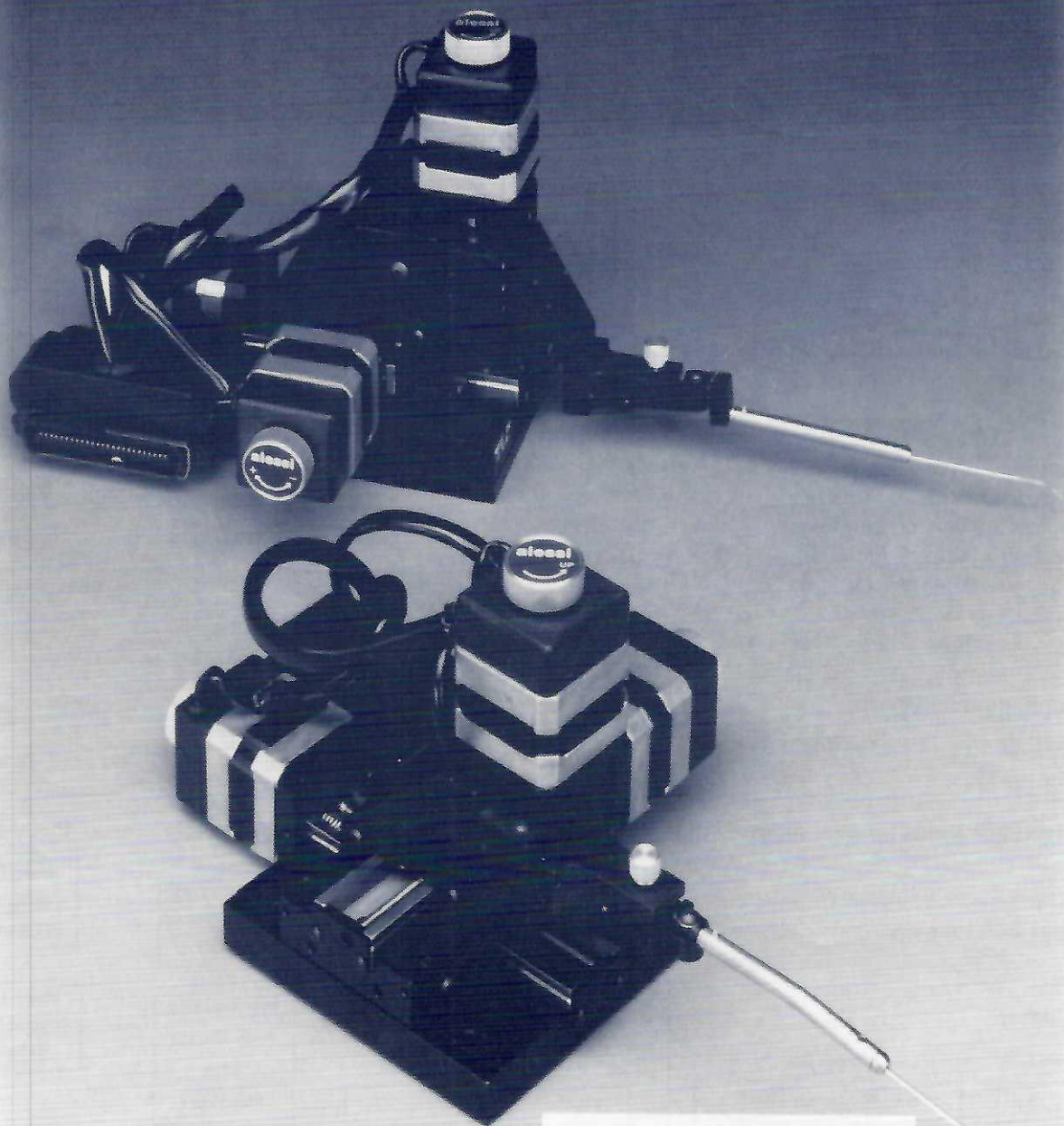


**MS-Series
Programmable
Micropositioners**



Station Accessories



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

Features

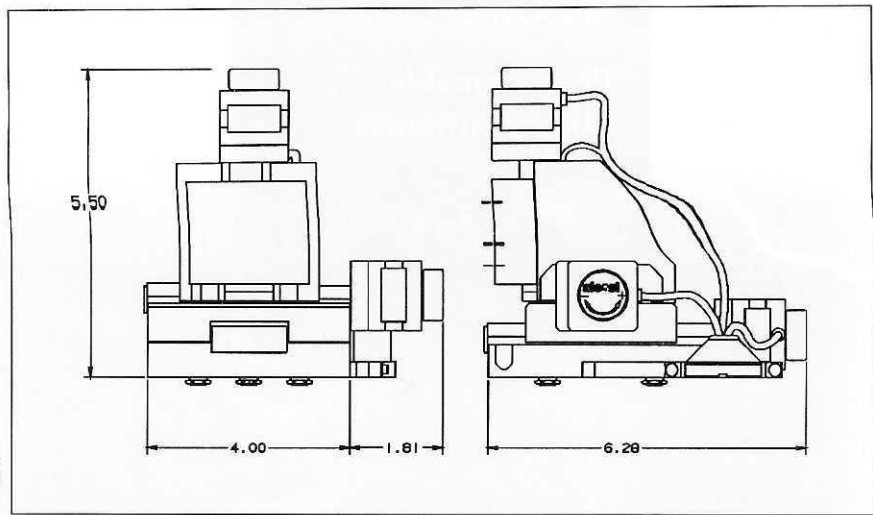
- Provides 3 axes of linear motion with either 1 in. or 2 in. (25 mm or 50 mm) of travel
 - True linear motion for ultra precise probe-tip placement
 - Active, coaxial, or triaxial probe compatibility
 - Small size allows up to 6 micropositioners to be fitted to an Alessi 8-inch (203 mm) station
 - Positioners 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:



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

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

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 μ m	0.1 μ m
Repeatability	1 μ m	2 μ m
Accuracy	1 μ m	3 μ m
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.

Positioner

Choose One

MS1-44/R
MS1-44/L
MS2-44/R
MS2-44/L

Base

Choose One

MAC-02 Magnetic Base
MAC-22/L Vacuum Base Left
MAC-22/R Vacuum Base Right
MAC-05 Bolt-down Base

Probe Mount and Probe

Choose One

MMP-51 Straight Probe Mount
MMP-05 90° Down Probe Mount

Or Choose

MMP-12/5 Pico Probe Mount

Or Choose One

PE5-02/5 Coax Probe (includes Mount)
PE5-32/5 Triax Probe (includes Mount)

Probe Holder

Standard

PHJ Jack Lock
(includes MAE-44 jumper wire)

Or Choose

PHQ Quick Lock
PHW Wrench Lock

Pico Probe

Probe Tip

Probe Tip
45° Bend
PTT Series

Probe Tip
Straight PTT
Series

Probe Tip
Straight
PTT Series



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Advanced Microelectronic Probing Solutions

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