## M-105 • M-106 Linear Slide

## Precision Crossed Roller Guides, PiezoMike Option, XY(Z) Combinations



## Ordering Information

M-105. 10
Translation Stage, 18 mm
M-105.11
Translation Stage, 18 mm , with Lockable Micrometer Drive

## M-105.20

XY-Translation Stage, 18 mm

## M-105.30

XYZ-Translation Stage, 18 mm , (Includes M-009.10, Side Mount Z-Bracket)

## M-105.1P

Translation Stage, 18 mm , PiezoMike Drive

## M-105.2P

XY-Translation Stage, 18 mm , PiezoMike Drive

## M-105.3P

XYZ-Translation Stage, 18 mm ,
PiezoMike- Drive (Includes
M-009.10, Side Mount Z-Bracket)
M-106.10
Translation Stage, 5 mm ,
Differential Micrometer Drive

## M-106.20

XY-Translation Stage, 5 mm ,
Differential Micrometer Drive
M-106.30
XYZ-Translation Stage, 5 mm ,
Differential Micrometer Drive
(Includes M-009.10, Side Mount Z-Bracket)

M-105.1B
Translation Stage, Basic Unit, Order Drives Separately

## M-105.2B

XY-Translation Stage, Basic Unit, Order Drives Separately
M-105.3BA
XYZ-Translation Stage, Basic Unit (Includes M-105.VB1, Top Mount Z-Bracket), Order Drives Separately

## M-105.3BB

XYZ-Translation Stage, Basic Unit (Includes M-009.10, Side Mount Z-Bracket), Order Drives Separately

## Accessories

M-232.17
DC-Mike, Linear Actuator

## M-009.10

Z-axis Mounting Bracket for Vertical Mount of M-105/6 (Attaches to Side of M-105)

## M-105.VB1

Z-axis Mounting Bracket for Vertical Mount of M-105/6 (Attaches to Top of M-105)

## M-009.20

Mounting Bracket for Mounting
P-280 PZT NanoPositioning
Systems or F-010 Fiber Holders

## M-009.30

Z-axis Mounting Bracket for Vertical
Mount of M-105/6 Stages on PI
Standard Hole Pattern

Two motor drives are available, the $\mathrm{M}-231.17$ and the M 232.17 actuators (see p. 1-48 and p. 1-49). Both provide resolution a resolution of $0.1 \mu \mathrm{~m}$.
dle (not the preload springs) providing excellent stability.

## Motor Drive Upgrades

 carriage is spring preloaded against the micrometer tip for excellent repeatability and elimination of backlash. M-105 and $\mathrm{M}-106$ stages are available in one-, two- or three-axis configurations. Precision crossed roller bearings guarantee straightness of travel of better than $2 \mu \mathrm{~m}$. The $\mathrm{M}-106$ is equipped with a differential micrometer drive providing resolution of $0.1 \mu \mathrm{~m}$.
## PiezoMike Option

Versions with PiezoMike drive provide additional $30 \mu \mathrm{~m}$ fine range for remotely controlled ultra-high-resolution (e.g. scanning or tracking, (see p. 1-54) for further details and recommended controllers).

The vertical stage in the XYZ assembly supports the load through the micrometer spin-

## Notes

See "Accessories" for adapters, bracket, etc. see p. 4-89 ff.


Linear Actuators \& Motors

Nanopositioning / Piezoelectrics

Nanometrology

Micropositioning
Hexapod 6-Axis Systems / Parallel Kinematics

Linear Stages
Translation (X)
Vertical (Y)
Multi-Axis

Rotary \& Tilt Stages

Accessories
Servo \& Stepper
Motor Controllers
Single-Channel
Hybrid
Multi-Channel
Micropositioning
Fundamentals


M-105.3P XYZ translation stage (includes PiezoMikes and M-009.10, side mount Z-bracket) and optional M-009.20 bracket with F-010.00 V-groove fiber holder


Combination of $\mathrm{M}-105.1 \mathrm{~B}$ basic unit and M-232.17 high-resolution DC-Mike actuator

