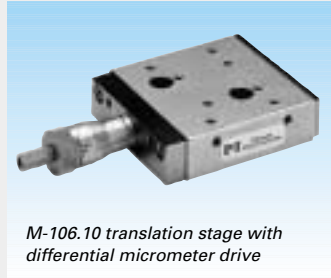


M-105
M-106

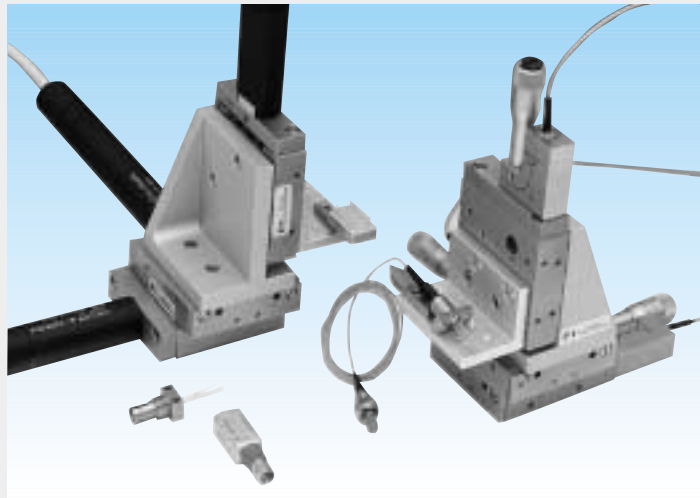
Translation Stages with Crossed Roller Bearings

Ordering Information

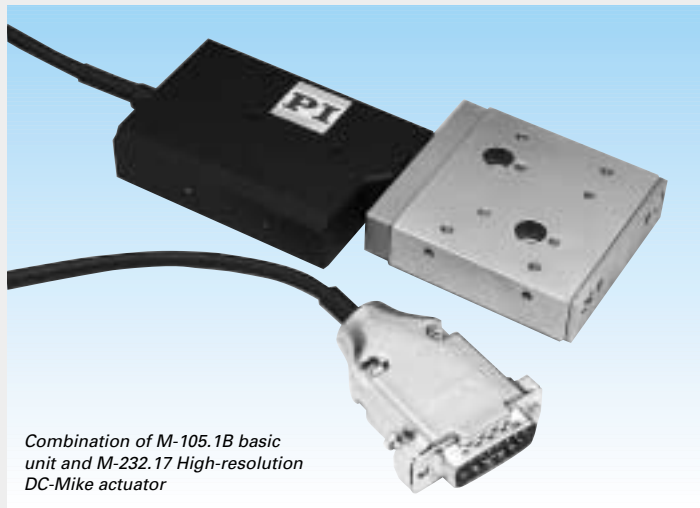
- M-105.10**
Translation Stage, 18 mm
- M-105.11**
Translation Stage, 18 mm w/
Lockable Micrometer
- M-105.20**
XY Translation Stage, 18 mm
- M-105.30**
XYZ Translation Stage, 18 mm
(includes M-009.10, side mount
Z-bracket)
- M-105.1P**
Translation Stage, 18 mm,
PiezoMike Drive
- M-105.2P**
XY Translation 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
- M-106.20**
XY Translation Stage, 5 mm,
Differential Micrometer
- M-106.30**
XYZ Translation Stage, 5 mm,
Differential Micrometer (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



M-106.10 translation stage with differential micrometer drive



Piezoelectric and motorized XYZ combinations of M-105.3BA translation stages e.g. for photonics packaging and fiber alignment or biomedical applications



Combination of M-105.1B basic unit and M-232.17 High-resolution DC-Mike actuator

- **Travel Range to 18 mm**
- **All-Stainless-Steel Construction**
- **XY and XYZ Combinations**
- **Resolution to 0.1 μ m**
- **Optional PiezoMike for 10 nm Resolution**
- **Optional Motor Drives**

M-105 and M-106 are micrometer-driven translation stages with travel ranges of 18 mm and 5 mm, respectively. The carriage is spring preloaded against the micrometer tip for excellent repeatability and elimination of backlash. M-105 and M-106 stages are available in one-, two- or three-axis configurations. Precision crossed roller bearings guarantee straightness of travel of better than 2 μ m. The M-106 is equipped with a differential micrometer drive providing resolution of 0.1 μ m.

PiezoMike Option

Versions with PiezoMike drive provide additional 30 μ m fine range for remotely controlled ultra-high-resolution (e.g. scanning or tracking, see page 7-76 for further details and recommended controllers).

The vertical stage in the XYZ assembly supports the load through the micrometer spindle (not the preload springs) providing excellent stability.

Motor Drive Upgrades

Two motor drives are available, the M-231.17 and the M 232.17 actuators (see p. 7-70, 7-71). Both provide resolution better than 0.1 μ m.

Notes

See "Accessories," page 7-82 ff. for adapters, brackets, etc.

