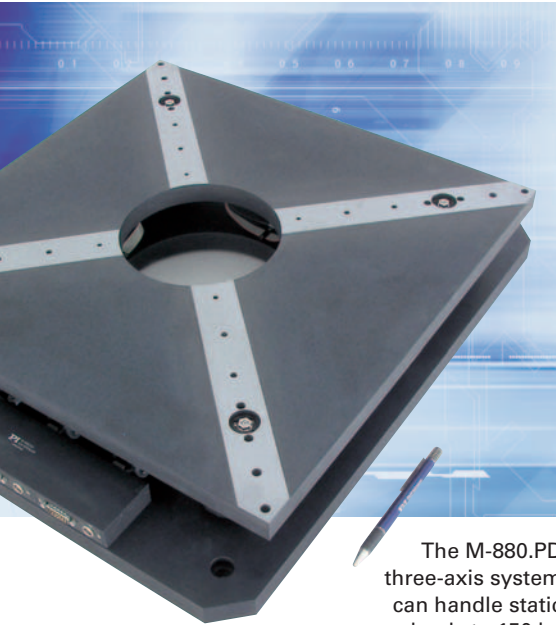


## Parallel-Kinematics XY $\theta$ Z Stage (Tripod) for LCD and Semiconductor Inspection



The M-880.PD three-axis system can handle static loads to 150 kg

### Parallel kinematics features low profile as well as high load capacity and accuracy

The new M-880.PD micropositioning stage offers three degrees of freedom with all the advantages of a parallel-kinematics multi-axis system for dynamic positioning of loads to 20 kg in a plane. The 500 x 500 mm moving platform with a 160 mm clear aperture is ideal for transmitted-light applications.

The low profile of just 105 mm is possible because all actuators are connected directly to the same moving platform—a principle taken from PI's extensive experience with the design of Hexapod systems.

Three ActiveDrive™ DC motors provide linear velocities up to 20 mm/s. Travel to  $\pm 10$  mm from the centerpoint and

rotation around Z to  $\pm 4^\circ$  are possible, with a minimum step size of 0.25  $\mu\text{m}$ .

Precision bearings ensure high stiffness and limit the out-of-plane tilt of the stage to  $\pm 10$  arcseconds.

### Very high static load capacity

The stage is designed to withstand static loads to 150 kg. This allows, for example, performing manufacturing steps with the stage at rest between inspections without transferring the workpiece to another support.

The system includes the translation stage and a high-performance, PC-based controller which performs coordinate transformation necessary to command the three actuators.

## Request the hardbound PI Catalog



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- Hexapods
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