

# Micro Positioner

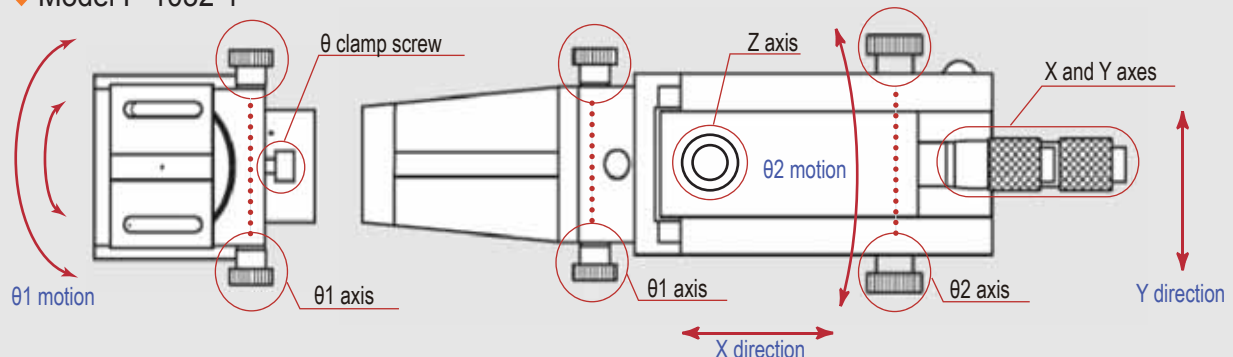
**NEW**

## High Precision 5-Axis Positioning



The micro positioner provides high precision positionings on straight motions of XYZ and rotational motions of theta 1 and 2. Each axis of XYZ has a micrometer that can be fine-adjusted. A parallel adjustment of a probe can be performed by a clamp screw roughly, and by theta 1 and 2 accurately. Each axis of theta 1 and 2 provides  $\pm 3$  degrees of rotational motion. The alignment of these five axes enables to establish a high-level measurement environment. This micro positioner can be utilized under the severe measurement condition which does not allow even the slightest gap between a probe and the sample to be measured.

### ◆ Model P-1032-1



ADVANCED ELECTRONICS TECHNOLOGY

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# Micro-Positioner

The micro positioners provide 4 types of positioners to fit to a coaxial, multi-pin types and other types of probes.

## Feature

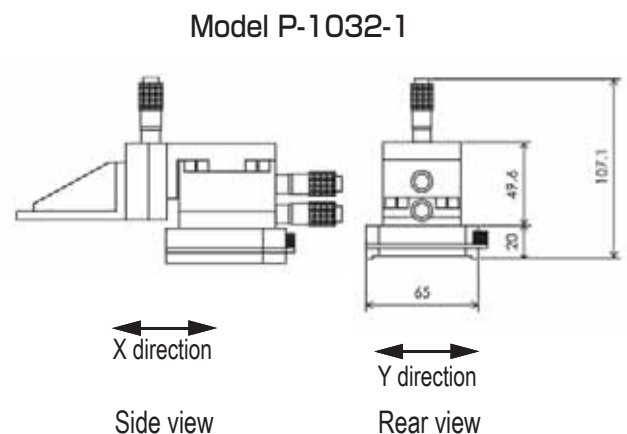
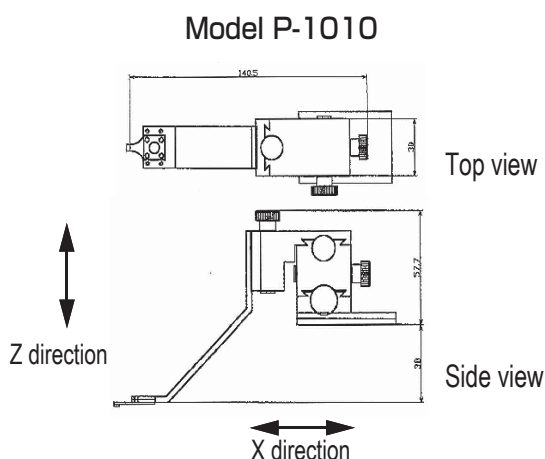
- Highly precise positioning by five axes of X, Y, Z, theta 1 and theta 2. NEW
- Each of theta 1 and theta 2 axis has  $\pm 3$  degree microadjustment control.
- Each axis of X, Y, and Z is equipped with a 0.5mm micrometer adjustment.
- The distance of X, Y and Z axis is  $\pm 5$ -6.5mm, and the linear motion is 5-10  $\mu\text{m}$  less.
- A powerful magnet ON/OFF switchable lever locks or releases the micro positioner to and from the positioner table.
- A probe fixture can be custom-made so that it can be equipped for a various types of probes.
- It can be utilized for the manufacturing process of a semiconductor wafer and measurement of a RF circuit, etc.



## Specification

Type	P-1010	P-1020	P-1022-1	P-1032-1
Theta 1 axis	—	—	—	—
Theta 1 axis rotation angle	—	—	—	—
Theta 2 axis	○	○	—	—
Theta 2 axis rotation angle	$\pm 3^\circ$	$\pm 3^\circ$	—	—
X axis position	rear	rear	rear	rear
X axis micrometer	—	○	○	○
Y axis position	side	rear	rear	rear
Y axis micrometer	—	○	○	○
Z axis position	upper	upper	upper	upper
Z axis micrometer	—	○	○	○
X/Y/Z max. linear motion	$\pm 5\text{mm}$	$\pm 6.5\text{mm}$	$\pm 6.5\text{mm}$	$\pm 6.5\text{mm}$
X/Y/Z stepping motion/oneroll	0.5mm	0.5mm	0.5mm	0.5mm
X/Y/Z linear resolution	—	$< 10 \mu\text{m}$	$< 10 \mu\text{m}$	$< 5 \mu\text{m}$
on/off switchable lever on a magnetic base	○	○	○	○
body material	aluminum	aluminum	aluminum	aluminum
surface finishing	alumite	alumite	alumite	alumite
weight	220g	880g	780g	850g

## Example Design



\*Please refer to AET, Inc., for details about other types.