

Microscope XY Stage

Compact, Stable, Long Travel Range



M-545

- Stable platform for P-545 PInano® piezo nanopositioning systems
- Low profile for easy integration: 30 mm
- Travel range 25 mm × 25 mm
- Manual operation with micrometer screws, optional motorization
- For inverted microscopes from Nikon, Zeiss, Leica, and Olympus

Standard-class, manual microscope XY stage

Rough adjusting for piezo nanopositioners from PI as well as manual positioning of specimen holders. Supports optimum scanning and settling behavior.

Micrometer screw or stepper motor drive

The M-545 XY stage can also be equipped with drives from the M-229 series (all models except M-545.2MZ). Complete packages with two stepper motor drives, matching controller, and joystick, are available under the product numbers M-545.USG respectively M-545.USC.

Suitable for microscopes from a large number of manufacturers

For inverted microscopes from Nikon (TI), Zeiss (Axio Observer), Leica (DMI), and Olympus (IX2, IX3). Versions for other microscopes on request.

Can be combined with numerous PI nanopositioners

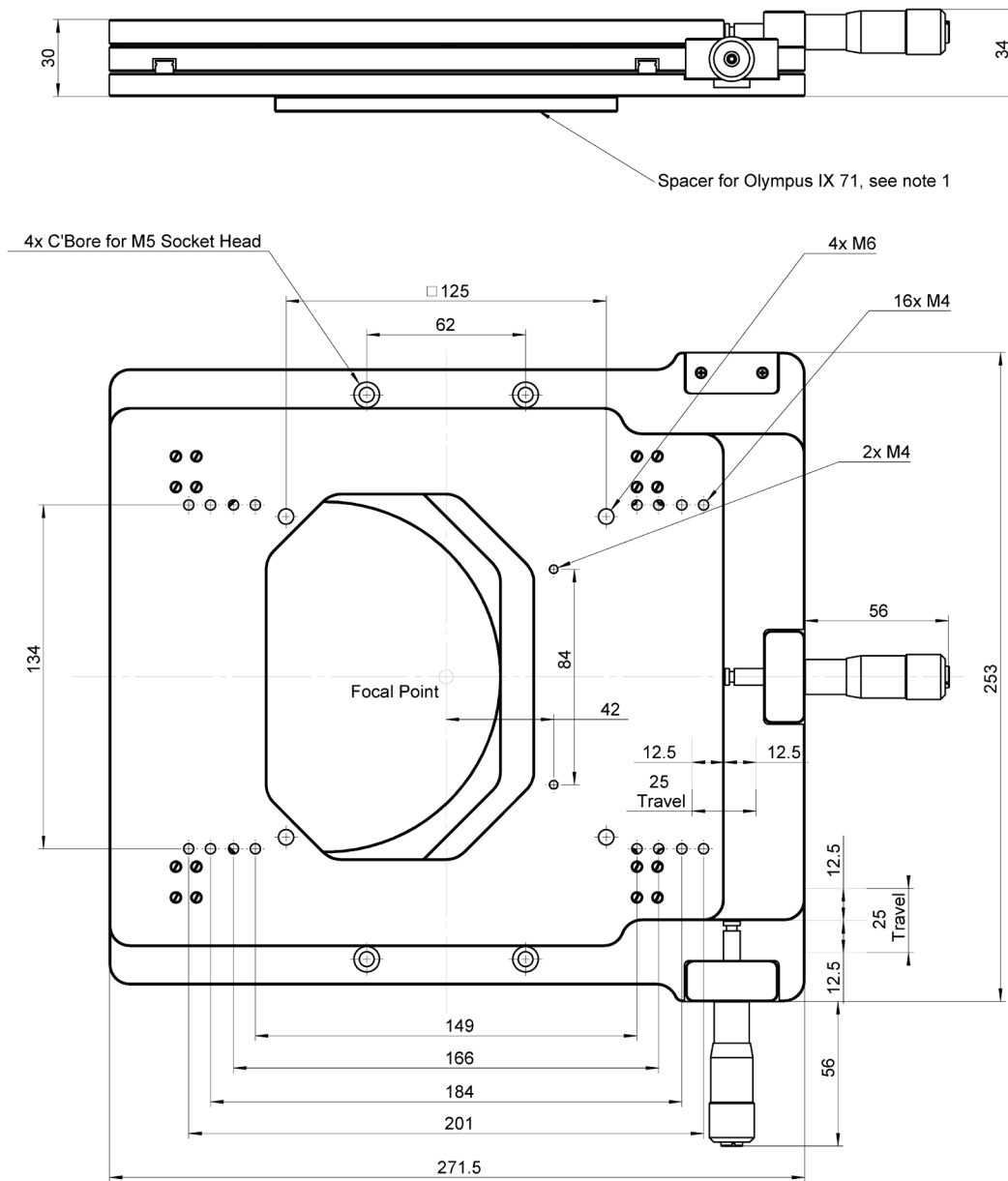
It is possible to mount piezo nanopositioners from the P-545 PInano® and P-541 / P-542 series onto the platform of the M-545. Adapter plates from PI are available for combining with other piezo nanopositioners.

Specifications

	M-545.2M	Unit	Tolerance
Active axes	X, Y		
Motion and positioning			
Travel range	25 mm × 25 mm		
Minimum incremental motion	1	μm	typ.
Minimum incremental motion with M-229 linear actuators*	1	μm	typ.
Velocity with M-229 linear actuators*	1.5	mm/s	max.
Mechanical properties			
Load capacity	50	N	max.
Preload	10	N	
Miscellaneous			
Material	Aluminum, stainless steel		
Mass	4	kg	±5 %

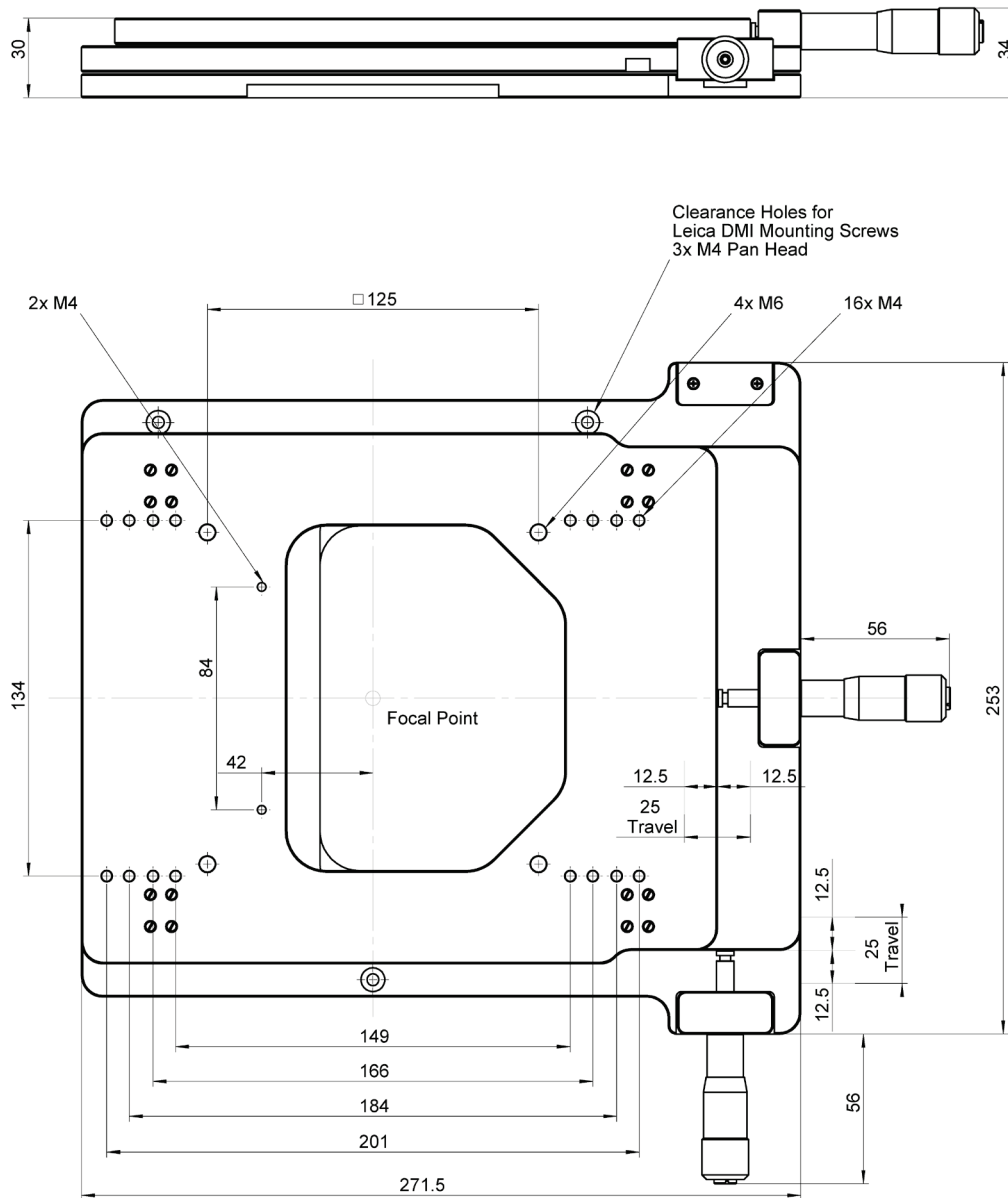
* Optional (for all models except M-545.2MZ)
Ask about customized versions.

Drawings / Images

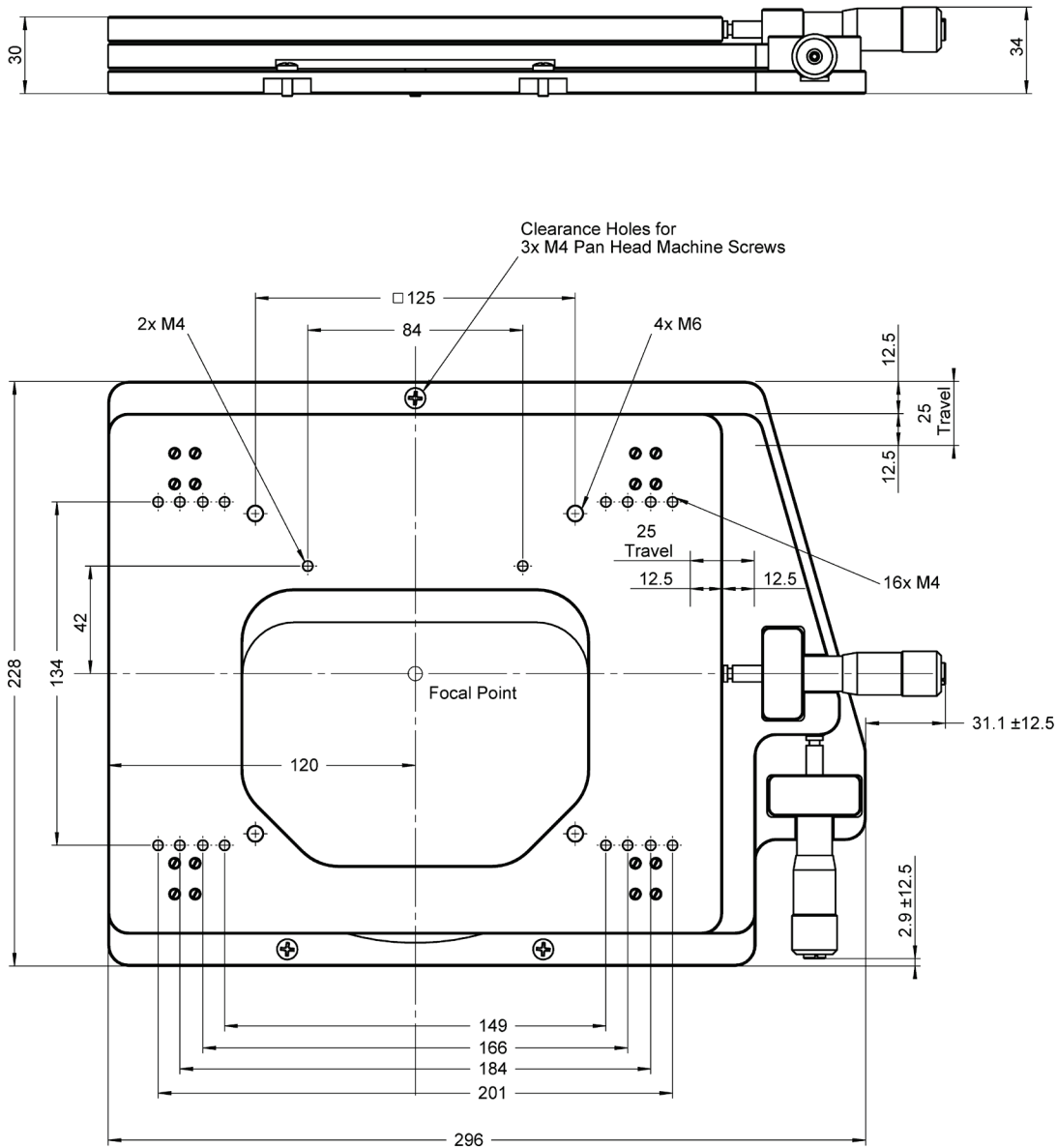


Note 1: Spacer shown for Olympus IX 71. Adapter for Nikon Ti Series Microscopes is available as well.

M-545.2MO and M-545.2MN: dimensions in mm. Delivery includes holders for Olympus respectively Nikon microscopes.



M-545.2ML: dimensions in mm



M-545.2MZ: dimensions in mm



P-545 Plnano® piezo positioner on M-545 XY stage

Ordering Information

M-545.2MO

XY stage, 25 mm × 25 mm, micrometer screw, high stability, compatible with PI piezo stages, for Olympus microscopes (IX2, IX3)

M-545.2MN

XY stage, 25 mm × 25 mm, micrometer screw, high stability, compatible with PI piezo stages, for Nikon microscopes (TI series)

M-545.2ML

XY stage, 25 mm × 25 mm, micrometer screw, high stability, compatible with PI piezo stages, for Leica microscopes (DMI series)

M-545.2MZ

XY stage, 25 mm × 25 mm, micrometer screw, high stability, compatible with PI piezo stages, for Zeiss microscopes (Axio Observer)

Accessories

Specimen holders

P-545.SH3

Microscope slide holder for PInano® piezo stages

P-545.PD3

Petri dish holder, 35 mm, for PInano® piezo stages

P-545.PP3

Universal holding plate for accessory for PInano® piezo stages

Adapter plates

M-545.SHP

Adapter plate for microscope sample holder for M-545 XY stage

P-733.AP1

Adapter plate for mounting P-733 piezo stages onto M-545 XY stages

P-736.AP1

Adapter plate for mounting P-736.ZRx PInano® Z piezo scanners onto M-545 XY stages

Stepper motor drive sets (optional; for all models except M-545.2MZ)

M-545.USC

Drive set for M-545 XY stage: Includes stepper motor linear actuators, controller and joystick

M-545.USG

Drive set for M-545 XY stage: Includes stepper motor linear actuators