

Base Positioners

850-0010
MULTI-AXES TILT PLATFORM


Multi-Axes Tilt Platform 850-0010 provides angular adjustment about two axes – tilting and in-plane rotation.

The mounting platform is rotated around kinematic pivot point by two micrometers. The out-of-plane tilting range is $\pm 2^\circ$ and the in-plane rotation ranges is $\pm 2.5^\circ$. Two micrometer screws are located side by side for a handy use. The adjustment movements are not calibrated, and they are uncoupled.

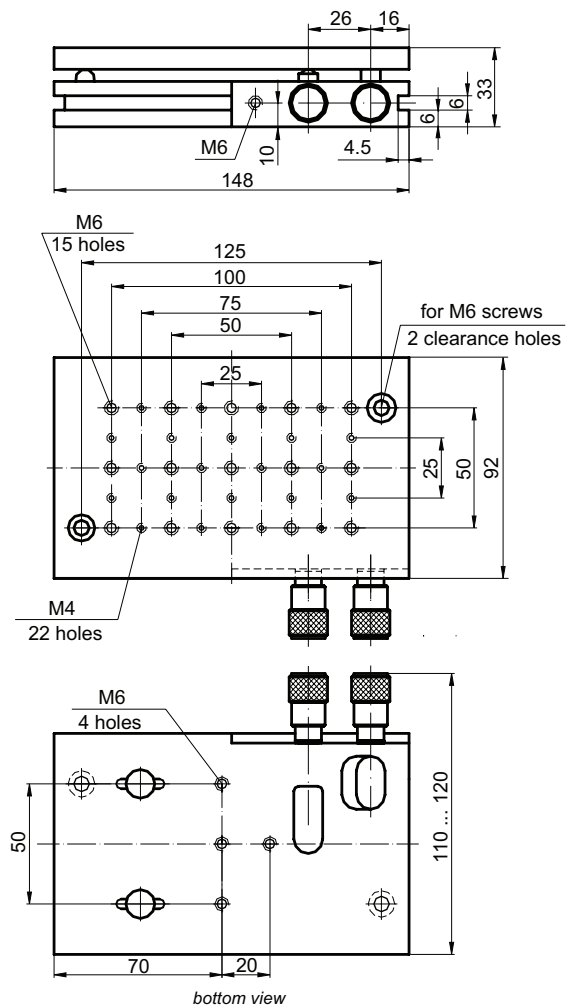
The platform has a 25 mm grid of M6 and M4 tapped holes.

Two clearance holes $\varnothing 6.2$ mm are provided in the base of the unit. This allows to attach 850-0010 to tables and breadboards. Also you can clamp the base of the unit by Table Clamp 820-0240; this way you can place the unit on the table in any direction.

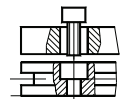
The tilt platform is made of black anodized aluminium.

SPECIFICATIONS

Tilt $\varnothing y$	$\pm 2^\circ$
Rotation $\varnothing z$	$\pm 2.5^\circ$
Load capacity	15 kg
Weight	1 kg

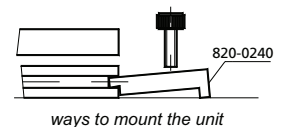


bottom view



Complementary Products

Code	Page
820-0240	5.48



ways to mount the unit

850-0020 • 850-0022 KINEMATIC BASES



850-0020

- Kinematic repositioning with repeatability of several arcsec
- Exclusive mounting disk for extra freedom in positioning (850-0020 only)
- Hooks made of spring steel enable reliable locking and quick-release

A kinematic base is used for repeated positioning of groups of units mounted on its platform.

A platform has M6 mounting holes. Alternatively, fit an M6 screw through a clearance hole from beneath.

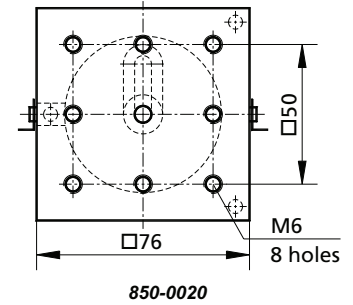
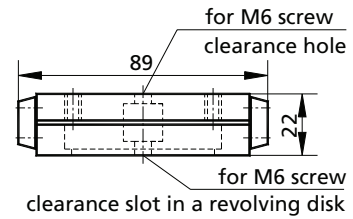
Unhook the platform from the bottom plate and stow it away with all the units still mounted. Later replace the platform, just as it was, with a repeatability of several arcsec.

The bases use a kinematic scheme, where three steel balls register with a cone, a v-groove, and a flat. The balls and registers are made of hardened polished steel.

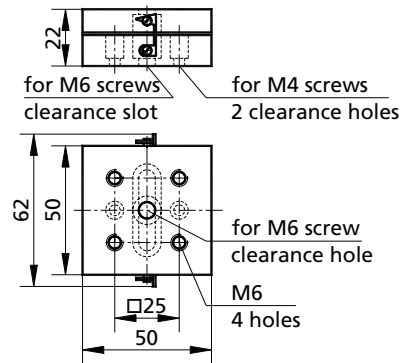
Hooks prevent a platform move by accident.

A bottom plate is fastened through clearance holes or a slot. 850-0020 has a revolving mounting disk adding a degree of freedom of positioning.

Material: black anodized aluminium.



850-0020



850-0022

Code	Weight, kg
850-0020	0.30
850-0022	0.14

OPTICAL TABLES

BRACKETS & RAILS

BASE MOUNTS & ACCESSORIES

OPTICAL MOUNTS

OPTICAL POSITIONERS

BASE POSITIONERS

TRANSLATION & ROTATION STAGES

ADJUSTMENT SCREWS

MOTORIZED POSITIONERS

OPTO-MECHANICS SETS

850-0030
MAGNETIC KINEMATIC BASE


You can lift the units mounted on the platform as a group. The platform is replaced with a repeatability of a micro-radian.

The platform has patterns of M4 and M6 mounting holes. Alternatively, fit M6 screws through its clearance slots from beneath.

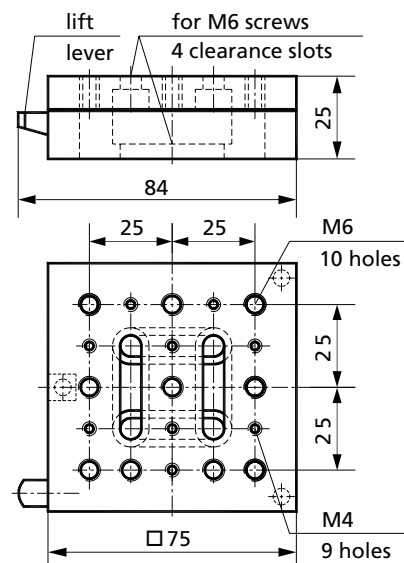
Two high strength magnets lock the platform to the bottom plate.

The bottom plate is fastened by M6 screws through a pair of transversal clearance slots.

Push the special lever to lift the platform with minimal jolts.

Material: black anodized aluminium.

Code	Weight, kg
850-0030	0.36


850-0040
SINGLE AXIS TILT STAGE


A Single-Axis Tilt Stage 850-0040 provides tilt range of 6° with 6 μrad sensitivity. Pivot is done on two hardened steel balls.

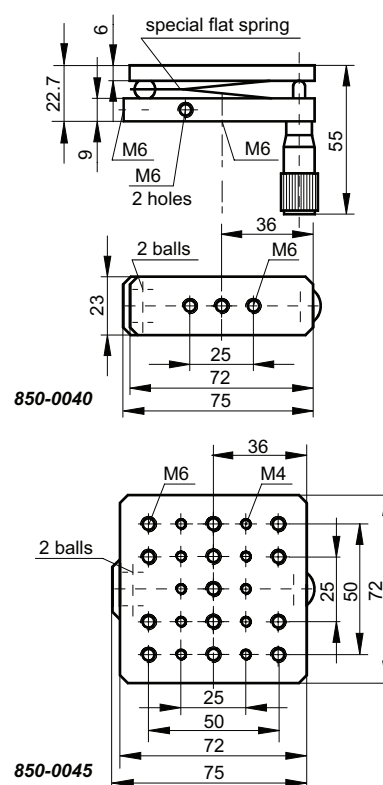
The base has M6 tapped holes on four sides, to fasten the platform, for example on mounting posts 3MP.

Material – black anodized aluminium.

Code	Weight, kg
850-0040	0.11
850-0045	0.16

Ordering Information

Example codes	Fine driving screw	See page
850-0040 850-0045	870-0030 (comes as standard – omit the screw code)	5.100
850-0040-06 850-0045-06	870-0060 (alternative screw – append 06 to the code)	5.100
850-0040-08 850-0045-08	870-0050	5.100



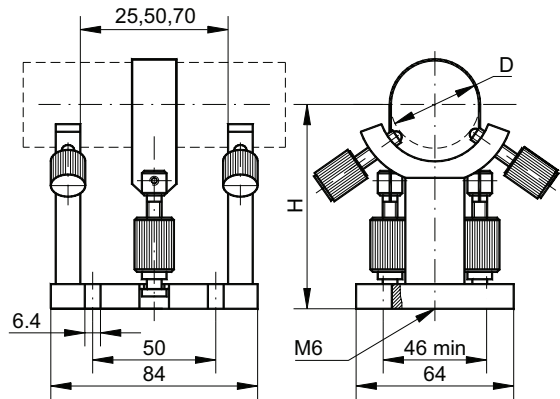
850-0095 **ADJUSTABLE LASER / LASER HEAD HOLDER**



Adjustable Laser/Laser Head Holder 850-0095 is used for repeatable mounting and drift-free pointing of laser heads and other cylindrical objects.

You may easily reposition the two supports to select an optimal basis for cylindrical objects of differing lengths (basis of 25, 50, or 70 mm).

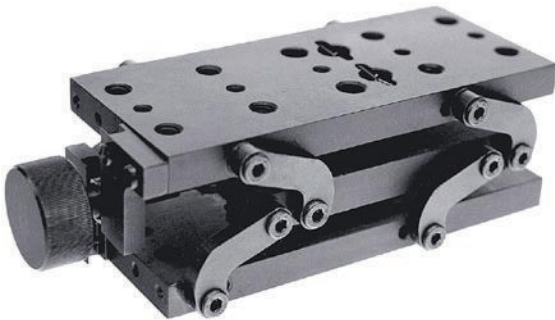
850-0095 is made of black anodized aluminium and is equipped with 6.4 mm clearance slots and M6 tapped holes to attach to tables and breadboards.



- Stable design
- Precise adjustment about linear and angular coordinates
- Wide adjustment angle
- High load capacity
- Convenient mounting

Code	D, mm	H, mm	Weight, kg
850-0095	Ø25-Ø36	≈75	0.26
850-0085	Ø48-Ø55	≈65	0.20

850-0200 **ADJUSTABLE HEIGHT PLATFORM**

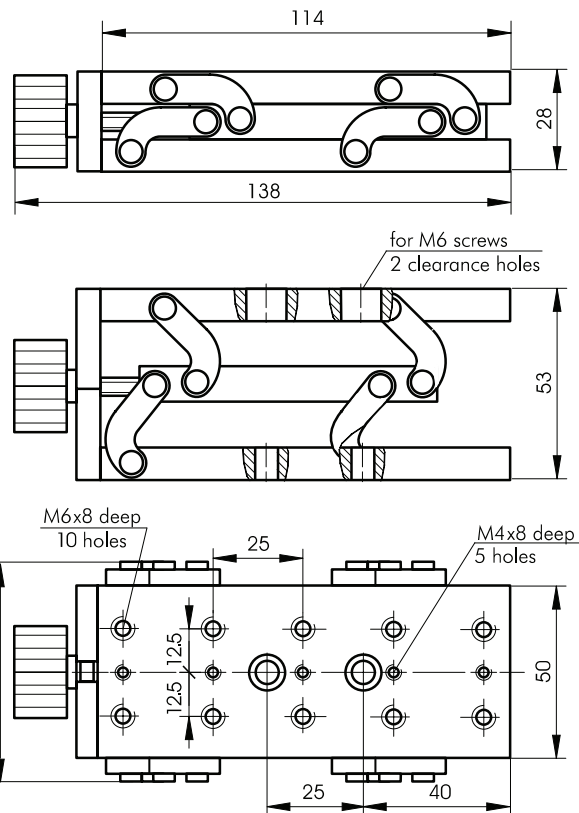


Adjustable Height Platform 850-0200 is a stable vertical translation stage of original design with 25 mm travel range and maximum load capacity of 3 kg. A polished lead screw has 0.5mm pitch and allows to define the height of platform with 20 µm sensitivity.

Arrays of mounting holes M6 and Ø6.5 mm with 25 mm spacing are identical on the upper and lower plates.

Adjustable Height Platform is ideal for use with 860-0060-06 Translation Stage, when it is necessary to define one or two horizontal coordinates at a certain height.

The platform is produced from black anodized aluminium, the lead screw block is produced from stainless steel and bronze.



Code	Weight, kg
850-0200	0.5

Complementary Products

Code	Page
860-0060-06	5.107