Flipping Mirror/Beamsplitter Mounts



5F21-1 (left hand version)



5F21M-1 (right hand "Mirror" version)

Use the **Flipping Mount 5F21-1** to place optics **in** and **out** of the optical scheme. Flip the platform out and back again – it sits on the adjustment screws in a repeated position.

Precise alignment of various optical elements to desired **angles** is done by **2 adjustment screws**.

3 seats form 3 kinematic points for definite position of the platform. The seats are of hardened steel. This increases the service life, as they counter the hardened steel tips of adjustment screws and pivot balls.

Mount **5F21-1** has a **1"** mounting hole with \emptyset **24 mm** clear aperture. A fixing screw secures the optics against **2 contact lines**,

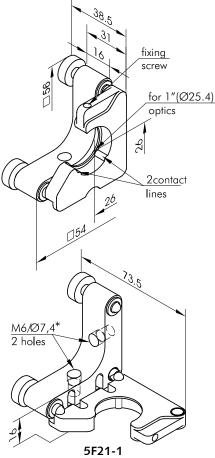
- Flip optics in and out of the experiment
- Repeatability 30 μrad
- Kinematic design
- Precise and handy angular adjustment in two orthogonal planes
- Stable vertical mounting
- Adjustment range of 8°
- Sensitivity of 3 arcsec
- Made of black anodized aluminium
- Weight 0.09 kg
- 5F21M-1 "Mirror" version

which make **2 contact points**. To prevent damage to the optics, the tip of the fixing screw is made of **plastic**.

On one side the **edge** of the optics stays **clear**. So you can use the optics close to the edge in schemes where you work with a beam very closely situated to another beam.

Fine Screws **9S127** or **9SH127** come as standard (one screw has its tip modified to form a kinematic point).

Depending on which side you mount the unit, you flip the platform either vertically or horizontally. By flipping out vertically the optics goes beneath the common **level** of the optical scheme. Still one leg of the base, with a adjustment screw on it, stays up. Yet this wouldn't obstruct the optical path, as it wouldn't when the optics was flipped in. Legs protruding upwards ease your access to the adjustment screws, with less risk of obscuring the beam. No need to design the legs extended down, so as to clear the space totally, like in some flippers from other manufacturers.



5F21

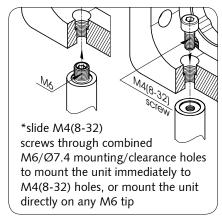
e-mail: sales@standa.lt

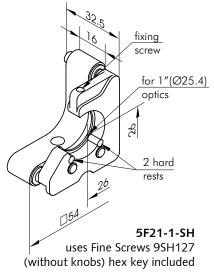
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uses Fine Screws 9S127 (with knobs)







optics stays in the experiment



optics flipped down



optics flipped to the

Note: "Mirror" version is a right hand version of the standard model.

5F21-2

5F21-2-SH

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Flipping Mirror/Beamsplitter Mount



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Phone: +370-5-2651474

- Flip optics in and out of the optical scheme

Tilt/tip range 8°, sensitivity 3 arcsec

- Kinematic design

- For Ø50.8 mm optics (2 inch)

- 49 mm clear aperture

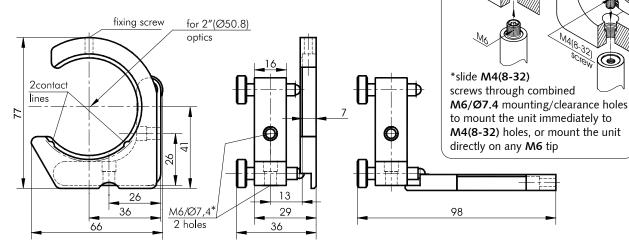
Repeatability 20 μrad

- Clear edge design

- Hex key drive optional

- Material: black anodized aluminium

- 5F21M-2 "Mirror" version

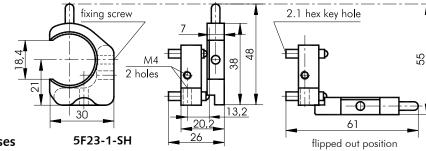


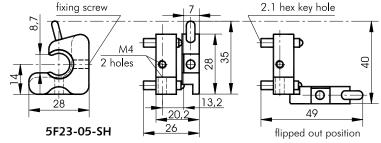
Miniature Flipping Mirror/Beamsplitter Mounts





- Flip optics in and out of the optical scheme
- Repeatability 20 μrad
- Tilt/tip range 9°
- Sensitivity 8 arcsec
- For Ø12.7 and Ø25.4 mm (0.5" and 1") optics
- Clear edge design suits schemes where beam passes close to optics' edge
- Kinematic design
- High stability
- Hex key drive
- Material: black anodized aluminium
- Weight 0.02 kg
- "Mirror" versions available 5F23M-1-SH, 5F23M-05-SH





Model	Туре	Accepts optics	Clear aperture
5F23-05-SH		Ø12.7 mm (0.5 inch)	Ø10.2 mm
5F23M-05-SH	"Mirror"	\varnothing 12.7 mm (0.5 inch)	Ø10.2 mm
5F23-1-SH		\emptyset 25.4 mm (1 inch)	Ø24 mm
5F23M-1-SH	"Mirror"	\emptyset 25.4 mm (1 inch)	Ø24 mm

Kinematic Mirror/Beamsplitter Mounts

5MBM21-1

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5MBM21-1-2

Precise and easy adjustment, angular in two orthogonal planes, and linear Stable vertical mounting

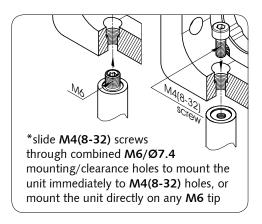
- Adjustment range of 9° or 5 mm
- Sensitivity of 3 arcsec or 1 μ m
- Made of black anodized aluminium
- Weight 0.09 kg
- Available 2 inch version-5MBM21-2
- Available motorized version-8MBM21

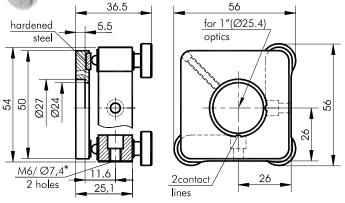
Kinematic Mirror/Beamsplitter Mounts 5MBM21-1 are designed for precise alignment of various optical elements to desired angular and linear orientation. Models with 2 or 3 screws are available (see ordering).

The base of the mount has holes \emptyset 8.7 mm for adjustment screws of your choice. As standard, we fit Fine Screws 9S127 or **9SH127**. Each screw has a hardened steel ball tip.

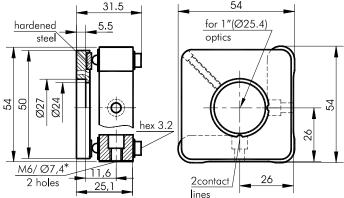
The mounts have a one inch mounting hole with \emptyset **24 mm** clear aperture.

5MBM21-1 may be mounted on one side or another, e.g. to swap left/right hand side of access to the drive relative to the beam. It mounts to an M6 screw or directly to Mounting Posts on their M6 tips. Put an M4 screw through the combined Ø7/M6 hole to fasten the mount to units with M4 holes.





5MBM21-1-3 uses three Fine Screws 9S127



5MBM21-1-3SH uses three Fine Screws 9SH127

Ordering

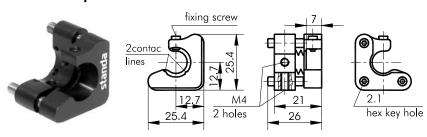
5MBM21-1

To specify how many screws you want in a mount, append the number to the code. Suffix "SH" specifies hex screws.

Examples:

5MBM21-1-3 3 screws 5MBM21-1-2 2 screws 5MBM21-1-2SH 2 hex screws

Miniature Kinematic Mirror/ Beamsplitter Mount



Model	Туре	Accepts optics	Clear aperture
5MBM23-05-3SH		Ø12.7 mm (0.5 inch)	Ø10.2 mm
5MBM23M-05-3SH	"Mirror"	Ø12.7 mm (0.5 inch)	Ø10.2 mm

5MBM23-05-3SH

- For Ø12.7 mm optics (0.5 inch)
- **Kinematic**
- Clear edge design
- Hex key drive
- Tilt/tip range 14°
- Sensitivity 8 arcsec
- Black anodized aluminium
- Weight 0.03 kg
- "Mirror" version available 5MBM23M-05-3SH

hand version of the standard model.

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Kinematic Mirror/Beamsplitter Mounts



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Phone: +370-5-2651474



5MBM24-1-3

5MBM24-2-3SQ

- 1", 2", 3" optics mounts
- Tilt range 9° (about two axes)
- Travel range 4 mm
- Sensitivity of 3 arcsec and 1 μ m
- Mounting on either of 2 sides
- Two models round and square aperture
- **Kinematic**
- Clear edge design
- A screw pushes via seat of hardened stainless steel
- "Mirror" versions available
- Black anodized aluminium
- Available motorized version 8MBM24

Kinematic Mirror/Beamsplitter Mounts 5MBM24 are used for precise angular and linear alignment of optical elements.

There are two series: one for round (5MBM24-1, 5MBM24-2, 5MBM24-3) and one for square (5MBM24-1SQ, 5MBM24-2SQ, **5MBM24-3SQ**) optical elements.

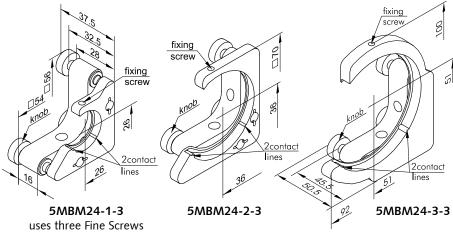
5MBM24 has a resting flange to stop the optics. One fixing screw (two in "square" mounts) secures the optics against 2 contact lines, which make 2 contact points. To prevent damage to the optics, the tip of the fixing screw is made of plastic.

Square mount additionally has 4 fixing screws for thin optics. They have conic tips to work as wedges to clutch a thin plate of optics to the resting flange. For thick optics it has 2 screws rather than one.

A platform is preloaded by two strong coil springs, ensuring tight kinematic fit. A thick base adds to stability.

This allowed us to eliminate part of the mount, keeping clear one edge of the optics. Useful in schemes where beams go very close to each other.

As standard, we fit screws 9S127. You may order the mounts with 2 or 3 adjustment screws. Choose any **screw** and **removable** knob found in section 9.



Model

5MBM24-1-3SO

5MBM24-2-3SQ

5MBM24-3-3SQ



b, mm **Ax**, mm **Ay**, mm

26

37.4

53.6

26

38.2

55.4

5MBM24-1-3
uses three Fine Screws
9S127 (with knobs)
5MBM24-1-3SH

uses three Fine Screws 9SH127 (without knobs) risk of tampering is reduced (hex key included)

fixina

5MBM24-SQ

~	
Mo	M4(8.32)
*slide M4(8-32)	

H, mm

56

72.5

102.5

W, mm

56

64

92.5

B, mm

37.5

37.5

50.5

	\bigcirc	1.6M	
*slide M			
screws th	hrough cor	nbined	
M6/Ø7.	4 mountin	g/clearai	nce
holes to	mount the	unit	
immedia	tely to M4	(8-32) h	oles,
or moun	t the unit o	directly o	n
any M6	tip		

Examples of codes:	Screws:
5MBM24-1 -3	3
5MBM24-1 -2	2
5MBM24-1 -2SH	2 hex
5MBM24-1 -3SH	3 hex

32.5

32.5

45.5

"SH" - hex screws. Removable hex knobs 9RK127 are available separately.

	1 3
5MBM24 -1- 3	for 1" optics
5MBM24 -2- 3	for 2" optics
5MBM24 -3 -3	for 3" optics
$5 \mathrm{MBM24}\text{-}1\text{-}3\mathbf{SQ}$	square aperture
5MBM24-1-3	round aperture
5MBM24 M -1-3	"Mirror" version



/

Mounts with hard seats



5MBM22S-1-3SH

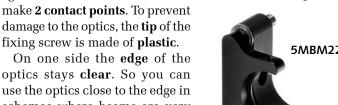
- Original stabilized L-shaped flat spring
- 1" and 2" optics mounts
- Precise (sensitivity of 3 arcsec and 1 μ m)
- Stable, with hard steel or sapphire seats under adjustment screws
- Tilt range of 5° in two orthogonal planes
- Travel range 4 mm
- Vertical mounting on either of two sides
- "Mirror" versions available
- Material: black anodized aluminium

Each screw has a hardened steel ball tip. It pushes the aluminium platform against a **hard seat**. This results in increased durability, stability, and fine motion.

 $M6/\varnothing 7,4$ mounting/clearance holes are centered against the center of the mounted optics.

The platform has an original L-shaped flat spring. It performs two functions: preloading the platform, and reducing its drift. The high tension spring and the thick base of the unit increase its stability. This allowed to eliminate a part of the mount, keeping clear one side of the optics.





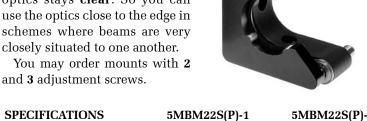
5MBM22S-2-3

Mounts 5MBM22S, 5MBM22SP

have a 1" and 2" mounting hole.

A fixing screw secures the optics

against 2 contact lines, which



SPECIFICATIONS	5MBM22S(P)-1	5MBM22S(P)-2
Tilt/tip range	5°	5°
Sensitivity	5(3) arcsec	5(3) arcsec
Travel range	4 mm	4 mm
Sensitivity	$1(0.5)\mu\mathrm{m}$	$1(0.5) \mu { m m}$
Optics diameter	≤ Ø25.4 mm	≤∅50.8 mm
Clear aperture	24 mm	45 mm
Weight	0.09 kg	0.14 kg

5MBM22SP sapphire steel

5MBM22S

A screw pushes via a seat of hardened stainless steel or sapphire.

Examples of codes:	Screws:
5MBM22 S -1 -3	3
5MBM22 S -1 -2	2
5MBM22 S -2 -2SH	2 hex
5MBM22 SPM- 1 -3SH	3 hex
"C"	of bondone

"S" – a screw pushes via a seat of hardened stainless steel

"SP" - a screw pushes via a seat of sapphire

"M" – "Mirror" version

"-1-" – for 1" optics

"-2-" – for **2"** optics

"-2" or "-3" – number of screws
"SH" – hex screws. Removable hex

knobs 9RK127 are available separately.

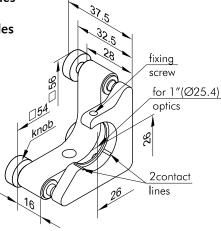
5MBM22S-1 5MBM22SP-1 5MBM22S-2

5MBM22SP-2

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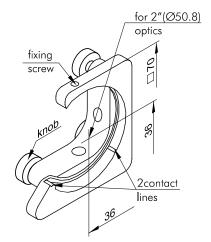
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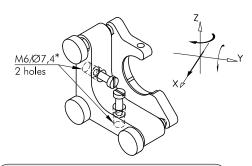
5MBM22S-1-3

uses three Fine Screws 9S127 (with knobs). **5MBM22S-1-3SH** uses three Fine Screws 9SH127 (without knobs) risk of tampering is reduced (hex key included)



5MBM22S-2-3

uses three Fine Screws 9S127 (with knobs). **5MBM22S-2-3SH** uses three Fine Screws 9SH127 (without knobs) risk of tampering is reduced (hex key included). Other dimensions are like in **5MBM22S-1**



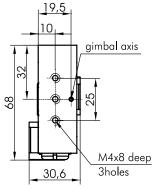
*slide M4(8-32) screws through combined M6/Ø7.4 mounting/clearance holes to mount the unit immediately to M4(8-32) holes, or mount the unit directly on any M6 tip

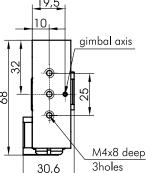
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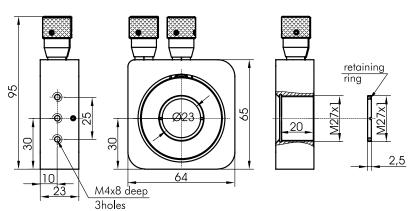
Phone: +370-5-2651474

True Gimbal Mount

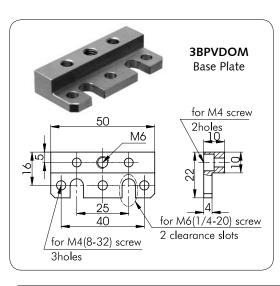












Two plastic padding rings and a retaining ring M27x1 to fix the optics are included.

A tightening key 3K-25 for the retaining ring is available on request.

Motorized version 8MGM251-1

SPECIFICATIONS

of Echi Ichi Ichi	
Optics diameter	25,4 mm
Clear aperture	23 mm
Angular range	±2,5°
Type of actuator	8CMA20-8/15
Resolution*	
in full step	$1,25~\mu\mathrm{m}$
in 1/8 step	$0,156~\mu\mathrm{m}$
Lead screw pitch	0.25 mm
Repeatability	$1\mu\mathrm{m}$
Maximum speed	4 mm/s
Cable	1.2 m length cable included
Motor connector	HDB15(M)
Weight	0.7 kg

*Actuator`s movement dependance of horizontal position is not linear.





- True Gimbal design

Adjustment knobs with engraved scale

±2.5° angular range

Hardened steel drive for stability

Lightweight aluminium body

Weight - 0.6 kg



Precision Kinematic Optical Mounts

- Precise and handy two orthogonal angular adjustments
- Stabile vertical mounting
- 9° adjustment range
- Various modifications with sensitivity from 10 arcsec to 3 arcsec
- M6×0.35 adjustment screws provide precise kinematic control
- Made of black anodized aluminium

Precision Kinematic Optical Mounts are designed for precise angular alignment of optical elements, in a range of 9° in both orthogonal axes.

The tilting element is always true-kinematicregistered.

The Mounts are produced of black anodized alu**minium.** Custom colors are available on request.

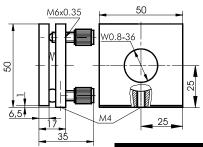
Objective Mount

50BM119



Objective Mount 50BM119 has W0.8-36 aperture and is used for precise adjustments of standard microscope objective lenses and allows low-cost positioning of a focus point. Applications - it can also be used in fiber optics.

Weight 0.08 kg



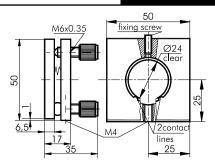
Beamsplitter/Optics Mount

5BM121



Beamsplitters/Optics Mount 5BM121 is designed for beamsplitters of Ø25.4 mm (1 inch). Fixing screw with a plastic tip clutches a beamsplitter against 2 contact lines. Mounting opening has a rest-flange designed to stop optics inside - its clear aperture is \emptyset **24 mm**.

Weight 0.09 kg



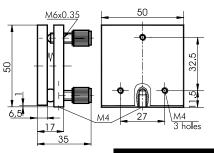
Universal Mirror Mount/Platform

5UM122



Universal Mirror Mount/Platform 5UM122 is suited for precise adjustments of standard mirrors which can be directly bound to it. The mount may also be used in horizontal position as a tilt table. Then it can be used to align opto-mechanics around two axes. For such mounting the Mount has an M4 hole on its back.

Weight 0.11 kg



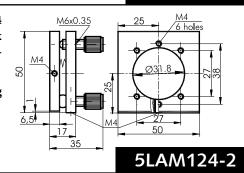
Large Aperture Optical Mount

5LAM124



Large Aperture Optical Mount 5LAM124 on its platform has \emptyset 31.8 aperture and six M4 mounting holes. It is designed for precise orthogonal adjustment of mirrors.

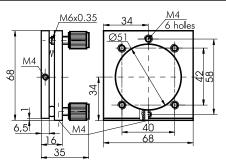
Weight 0.08 kg



Large Aperture Optical Mount

Large Aperture Optical Mount 5LAM124-2 has Ø50 mm aperture and is designed for precise kinematic orthogonal adjustment of mirrors.

Weight 0.1 kg





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NEW LOW-COST VERSION

Handy two orthogonal angular adjustments
9° range

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Phone: +370-5-2651474

- Sensitivity 3 arcsec
- M6×0.25 adjustment screws provide precise kinematic control
- Made of black anodized aluminium

Budget Kinematic Optical Mounts are designed for angular alignment of optical elements, in a range of 9° in both orthogonal axes.

The **tilting** element is always true-kinematic-registered.

The Mounts are produced of **black anodized aluminium**. Custom colors are available on request.

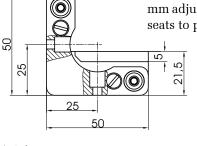
Weight 0.1 kg

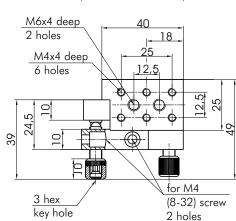
Prism/Optics Mount

5PM131

Prism Mount 5PM131 provides basic mounting for prisms, beamsplitter, cubes and etc. Spring clamps 4SC series should be ordered seperately. This mount is metric compatible.

5PM131 Mounts are equipped with fine pitch M6x0.25 mm adjustment screws, which rest upon hardened steel seats to provide reliable and repeatable adjustment.







"Right-hand" version
available



Universal Platform Mount

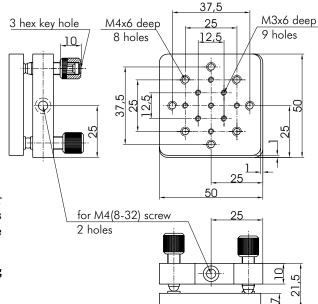
5UM131



Universal Platform Mount 5UM131 is designed for precise adjustments of various optical components which can be directly bound to it. The mount can be also used horizontally for tip/tilt adjustment.

Weight 0.11 kg

Ordering information on the next page.



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Optica Tables

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Mount: Accesso

ts &

Optical Mounts

Optical Positioners

Base Positioners

Rotation
Stages

Motorised Positioners Controllers

Adjustmo

Opto-Mechar o Sets

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Light lest & Measurement Instruments 1

5-8

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Beamsplitter/Mirror Mounts



Beamsplitter/Mirror Mount

5BM131

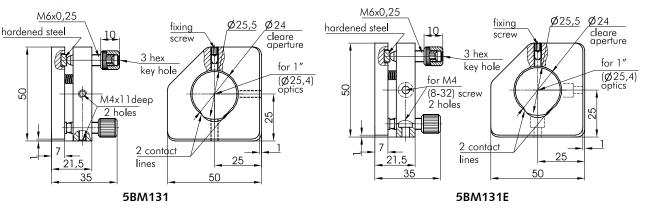
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Phone: +370-5-2651474 Fax: +370-5-2651483

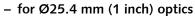
- for Ø25.4 mm (1 inch) optics
- Reset-flange inside the central aperture stops the optic
- Nylon-tipped fixing screw secures the optic
- M6×0.25 adjustment screws provide precise kinematic control
- Weight 0.08 kg

"Right-hand" version available



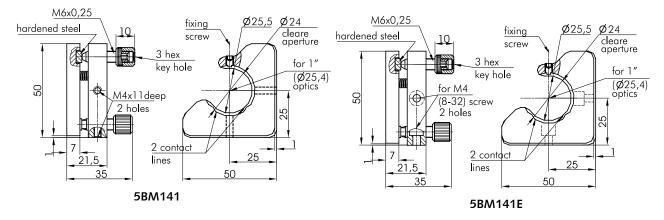
Mirror Optical Mount

5BM141



- 2 contact points for optimum stability
- One edge of the optics stays clear, helpful in schemes where beams are very closely
- situated to one another M6×0.25 adjustment screws provide precise kinematic control
- Weight 0.08 kg





Ordering Information

for 5PM131, 5UM131, 5BM131 and 5BM141

To specify how many adjustment screws you want in a mount, append the number to the code.

Examples of codes:

5BM141 With "M4x11 deep" mounting holes 5BM141E With mounting through holes for

M4(8-32) screws 5UM131-1-3 3 adjustment screws 5BM131E-1-2 2 adjustment screws

5BM141EM-1-2 "Right-hand" version with 2 screws 5PM131M-1-3 "Right-hand" version with 3 screws



50M60 • 50M61

Precision and High Stability **Optics Mounts**



50M60-3-9S67M

50M61-2-9S67M

Precision and High Stability Optic Mounts 50M60 and 50M61 are universal, durable, and render very stable adjustment.

Independent tilt about two horizontal axes - 6° with 3 arcsec sensitivity. Linear translation - 5 mm, sensitivity – $1 \mu m$. For translation a third actuator replaces the removable socket and the pivot bearing.

To enhance stability: the platform is preloaded by three special spring blocks; actuators push against hardened steel seats.

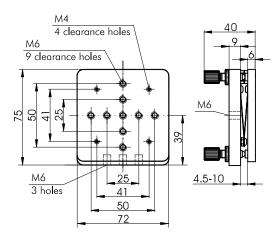
The mounts have M6 mounting holes. Mount 50M61 also has a Ø42 mm clear aperture.

The mounts can be fastened on any mounting post on its M6 tip. Additionally, mount 50M60 has a hole on its back and can be mounted in horizontal position to be used as a tilt platform.

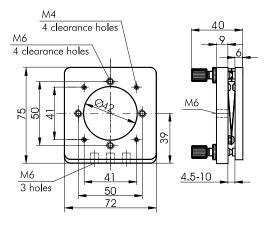
The base of the stage has three holes M10x1 for adjustment screws of your choice. Standard screws have a pitch of **0.5 mm**. For greater **sensitivity** you may request actuators with 0.35 or 0.25 pitch.

Material: black anodized aluminium (default), black finished steel (on request). The codes for steel mounts are: 50M60S, 50M61S.

Weight 0.35 kg



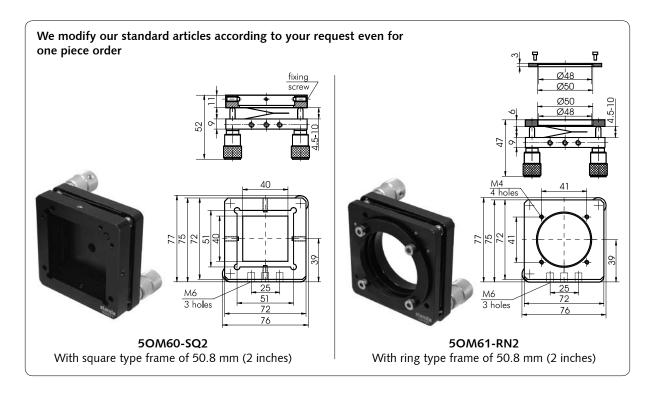
5OM60-3-9S67M



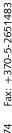
50M61-3-9S67M

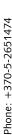
See the next page

"Modifications and ordering 50M60 and 5OM61"









Modifications and ordering

50M60 and 50M61

Examples of codes for 5OM60 stages: 5OM60-3

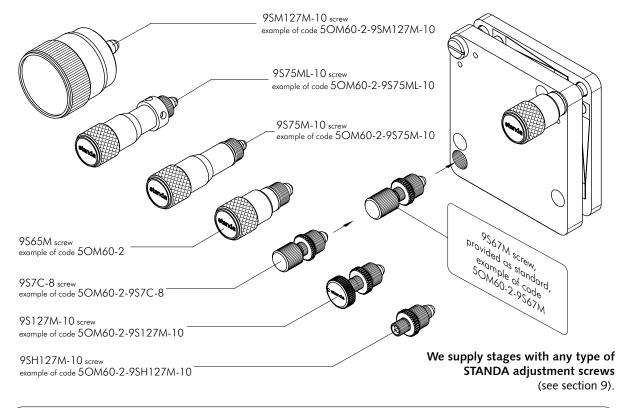
has three 9S65M adjustment screws 5OM60-2 has two 9S65M adjustment screws

and 1 ball

5OM60S-3 made of steel, and has three 9S65M screws 5OM60-3-9S67M has three 9S67M adjustment screws 5OM60-2-9S127M-10 has two 9S127M-10 screws and 1 ball 5OM60-2-9S127M-10-K15 has two 9S127M-10-K15 screws and 1 ball

has two 9S7C-8 screws and 1 ball 5OM60-2-9S7C-8

The stage may be fitted with 2 or 3 screws. A variant with 2 adjustment screws has a ball Ø8 as a third base-point. The stage comes with 9S67M screw as standard. You don't have to specify this screw in your order. If you order the stage with alternative screws, please specify this in order, by appending the screw code name to the stage code.









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Base Positioners

Highly Stable Precision L-shaped Steel Optical Mounts

- Special flat spring for improved stability, versatility and durability
- Kinematics, orthogonal angular adjustments
- 9° range, 5 arcsec sensitivity
- Left or right hand mountable
- Vertical and horizontal mounting

Highly Stable Precision L-shaped Optical Mounts are designed on the basis of two angular adjustment mount, and are produced of steel with black chemical finishing. Special figure spring is used in these Mounts for two purposes:

- 1. It provides pre-loading against the tips of two precise adjustment screws for elimination of backlash.
- 2. It ensures the absence of the roll coordinate.

The Highly Stable Precision L-shaped Optical Mounts have two M10x1 threaded holes for actuator mounting. This allows using all STANDA adjustment screws with these mounts. M6 tapped holes on the sides provide a wide variety of mounting configurations, either horizontal or vertical. A special L-shaped design of the Mounts allows for maximum clear aperture.

Two Angular Fine Adjustment Mounts

"Mirror version available Special flat spring 2holes 28 max48 39 59

Two models - for optical elements sized 0-28 mm and 22-52 mm - are available. Adjustment about two angular coordinates. A clamping bar is used to fix optical elements, ensuring gentle but firm clutch.

50M37M - "Mirror" version is a right hand version of the standard.

Model	H, mm	\mathbf{H}_{max} , mm	Weight, kg
5OM37-20	0-28	89	0.23
5OM37-50	22-52	122	0.28

Polarization Optics Mount

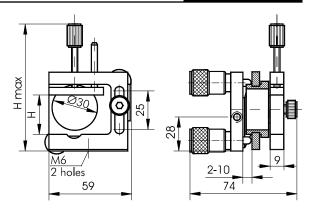
50M38

50M37



The same functions as 5OM37, but additionally provides 360° rotation around the optical axis. Ideally suitable for positioning of polarization filters.

Model	H, mm	$\mathbf{H}_{\mathbf{max}}$, mm	Weight, kg
5OM38-20	0-26	108	0.43
5OM38-40	18-46	127	0.42







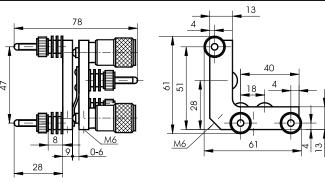




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Multiple Filter Mount



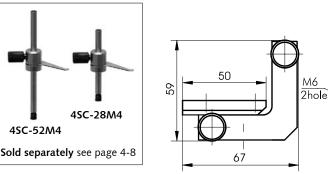


Provides fixation and adjustments of up to 6 filters about two angular coordinates. Filter thickness can be from 2 mm to 6 mm.

Weight 0.27 kg

Prism/Optics Mount

4SC-52M4



Platform of this holder allows to hold wider optics. Clamps 4BC32 and 4VC41 (ordered separately) used for fastening optical elements like prisms, cubes and etc.

Weight 0.29 kg

page 5-8 LOW-COST versions are available

Universal Prism/Optics Mount

5PMF57

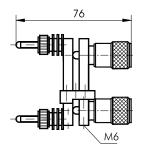
5FM57

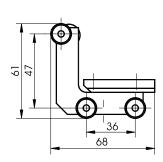
5PM57

Μ4









The same as 5PM57 with filter holder as in 5FM57.

Weight 0.31 kg

Modifications and ordering

We supply optical mounts with any of STANDA adjustment screws (see section 9).



Optical Mounts

Examples of codes for mounts:

5OM38-20 5OM38-20-9S67M 5OM38-20-9S127M-K5 5OM38-20-9S7C

with 9S65M screws with 9S67M screws with 9S127M-K5 screws with 9S7C screws

Standard stages come with 9S65M adjustment screw. You don't have to specify this screw in your order. If you order the stage with alternative screws, please specify this in order, by appending the screw code name to the stage code.

See section 9 for screws and their codes.



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5BM57

5

Stable Steel Mirror/Beamsplitter Mounts

- Special flat spring for improved stability versatility and durability
- Suitable for 1", 2", 3", 4", 6" optics

for 4"(Ø101.6)

optics

2

31

- 6° range

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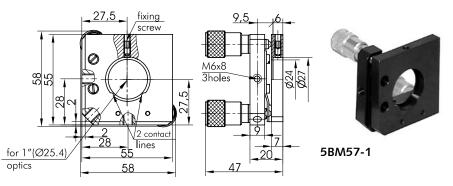
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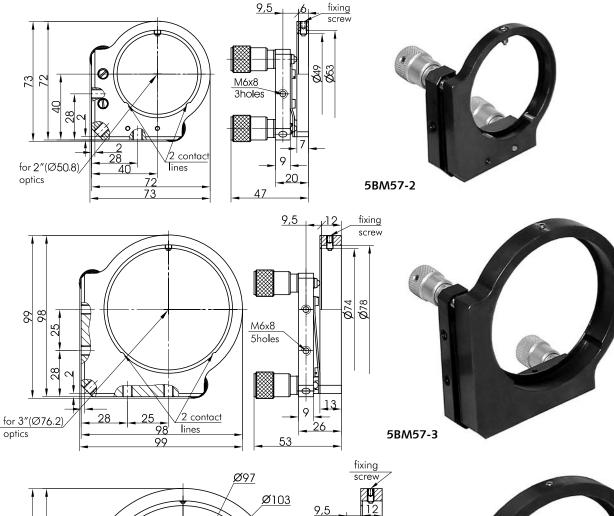
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The mount comes with 9S65M screw as standard. You may choose different screws. If you order the mount with alternative screws, please specify this in order, by appending the screw code name to the mount code. See section 9 for screws and their codes.

A special holder with two contact lines for optics and plastic fixing screw.



M6 4holes

2 contact

lines

<u> 124</u> 125

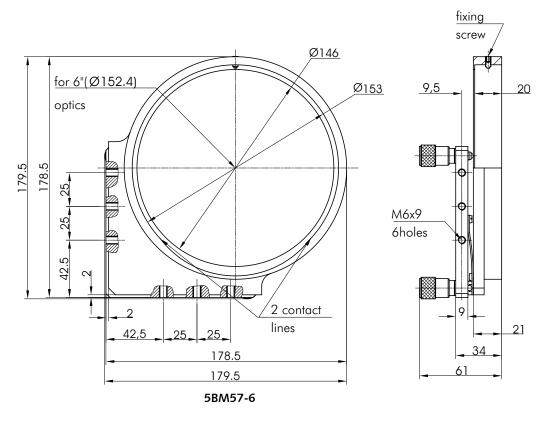


125 24





5BM57-4



Ordering Information

Model

C 431(CCO = 4)		
for $1"(\emptyset 25.4)$ optics	5BM57-1	
for $2"(\emptyset 50.8)$ optics	5BM57-2	
for $3"(\varnothing 76.2)$ optics	5BM57-3	
for $4"(\varnothing 101.4)$ optics	5BM57-4	
for $6"(\emptyset 152.4)$ optics	5BM57-6	
Available motorized ve 8MBM5 8MBM 8MBM	di e	standa ₀₀₈₈₄₇

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Weight, kg

Miniature Precision Mirror Mounts

- Miniature mounts for small optical elements
- ±10° tilt adjustments about two orthogonal axes
- High degree of versatility
- Made of black anodized aluminium

Miniature Precision Mirror Mounts ensure precise angular adjustments of small optics about two orthogonal axes with 10 arcsec sensitivity. M4 and M6 taped holes are provided for mounting. These black anodized aluminium mounts are ideal for holding 25 mm and smaller optics in tight spaces.

Mirror/Optics Mount

50M111



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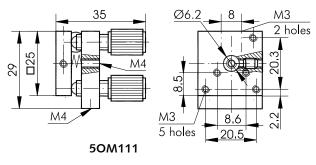
Mirror/Optics Mount 50M111 provides smooth and precise adjustment with sensitivity of 10 arcsec.

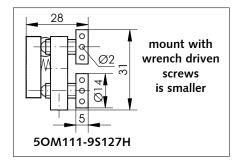
It can be used as a tilt platform - with Spring Clamp 4SC-28T and Mounting Post **3SMP4-47**.

Platform of the mount has a clear aperture of 6.2 mm in diameter.

The mount has $M6 \times 0.35 \, mm$ holes on its base for adjustment screws. Alternatively, to order the mount with wrench driven screws, you append the code of that screw: 50M111-9S127H.

Weight 0.04 kg



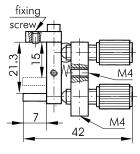


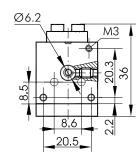
Modifications

50M111-0 • 50M111-45

Mirror/Optics Mount 50M111 with adapters 50M111A0 and 50M111A45 are suitable for round (Ø25.4 (1") and Ø12.7(0.5")) and square (15x15 mm and 20x20 mm) optical elements.

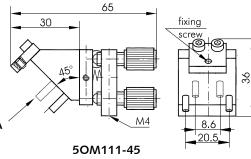


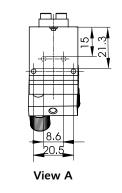




50M111-0

View A





ORDERING INFORMATION

Examples of codes:

- 50M111 standard mount.
- 50M111-0 Mount 50M111 with adapter 50M111A0.
- 50M111-9S127H-45 Mount 50M111 with 9S127H screws and with adapter 50M111A45.

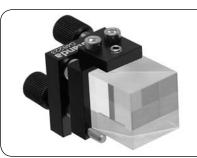




 $\begin{tabular}{ll} Mirror/Optics Mount 5 OM 111-0 \\ with round 0.5" high reflectivity mirror. \\ \end{tabular}$



Mirror/Optics Mount 50M111-0 with round 0.5" high reflectivity mirror.



Mirror/Optics Mount 50M111-0 with a 20x20x20mm polarizing beamsplitter cube.

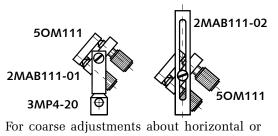


 $\label{lem:mirror/Optics Mount 50M111-0} With a ~15x15x15mm ~ polarizing beamsplitter cube.$



 ${\bf Mirror/Optics\ Mount\ 5OM111}$ with ${\bf adapter\ 5OM100A3}$ and with ${\bf round\ 1"}$ high reflectivity mirror.

For optical elements see page 14-1.



For coarse adjustments about horizontal or vertical axes compact Mirror mounts can be used with Mini Angle Brackets **2MAB111**.



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50M100A3

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Mirror Adapter

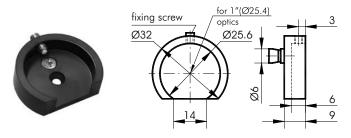
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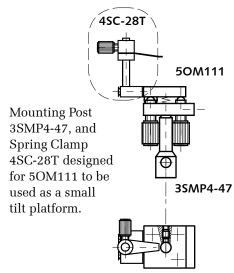
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Connecting cone facilitates adjustment of the adapter to the required position. The cut-off side clears the edge of the optics for working with a beam that is very closely situated to another beam. Optics is firmly held in place by a teflon set screw and rests against the two contact lines formed at the cut-off side. (See also adapters in articles 5OM10T, and 5OM122T.)

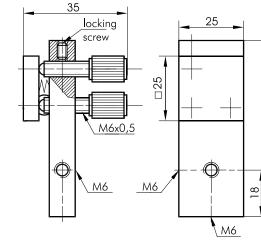
Weight 0.01 kg



Mirror Mounts with Locking Screws

5LSM110





Mirror Mount with Locking Screws 5LSM110 are provided with extended back for convenient mounting in horizontal or vertical position. Teflon locking screw tips ensure stability.

Model	H, mm	Weight , kg
5LSM110-01	68	0.07
5LSM110-02	33	0.04

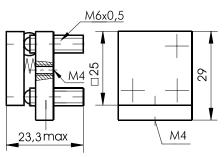
hex 3.2

Compact Mirror Mount

5CM123

5CM123





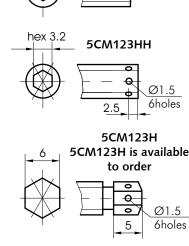
The extremely small mount has small adjustment screws with a hexagonal head or a hexagonal keyhole.

A suffix to the unit code specifies adjustment screws of a desired type:

5CM123 hexagonal keyhole 5CM123HH hexagonal keyhole and six holes for a wrench

5CM123H hexagonal head and six holes for a wrench

Weight 0.04 kg



Mirror Mounts/Tilt Platforms of Side Drive

Mirror Mount of Side Regulation 50M122T enables to greatly increase the thickness of optical elements as it has a convenient access to the regulation handles. L-shaped flat spring of original design renders the great stability of the mount's platform. Angular range is ±2.5° about each of two orthogonal axes. Precision screws with pitch of 0.25 mm render sensitivity of 3 arcsec.

M4 tapped holes on the sides of the base allow a variety of mounting configurations, e.g. horizontal and vertical.

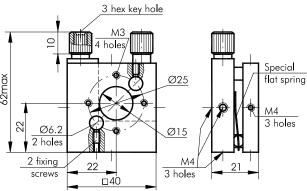
The mount is produced from black anodized aluminium. L-shaped spring is produced from high quality stainless spring steel.

Weight 0.09 kg

Mirror Mount of Side Regulation 50M122T. Eccentric mounting holes **⊘6.2** for connecting cone allow handy replacement and adjustment of Adapt-

ers to required place.

50M122T • 50M122TE

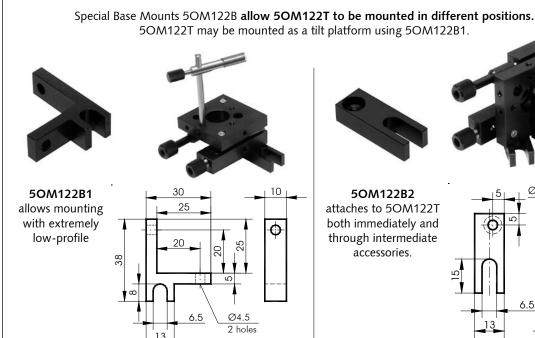


50M122T

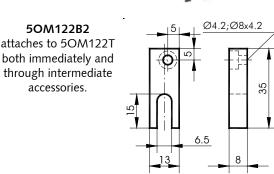


Mirror Mount of Side Regulation 50M122TE. This variant has no clear aperture. This makes it an ideal tilt platform. The clear of holes flat surface allows to mount or paste mirrors on it.

50M122TE





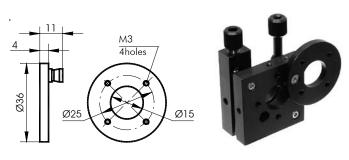


Platform Adapter 5OM122A5

50M122T



Allows to turn optics to a convenient position.





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Many of these adapters may be used with other mounts, e.g. 50M111, 50M10T. For more adapters browse this catalogue, e.g. in article 50M10T

Round Optics Adapters 50M122A1



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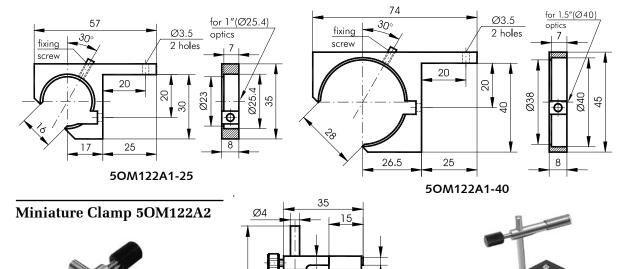
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50M122A1 can be attached to the platform of 5OM122T mount on any side. Optics is firmly held by a stainless steel fixing screw, and it rests against two contact lines - the edges of the cut-off corner. The frame doesn't obstruct the view. It allows to work with two beams going very close to each other.

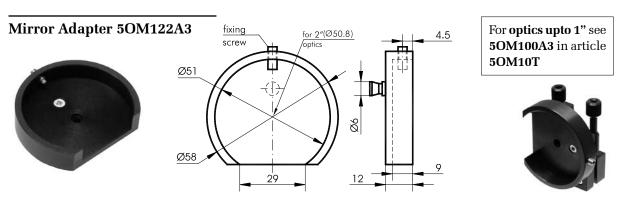
50M122A1-40 fixes thin optical elements \emptyset **30**- \emptyset **40 mm** in diameter. **50M122A1-25** fixes elements \emptyset **20** to \emptyset **25** (1") in diameter.



Ideal if a Mount is used as a Tilt platform. Plastic clutching pad clamps elements upto Ø40 mm (1.5").

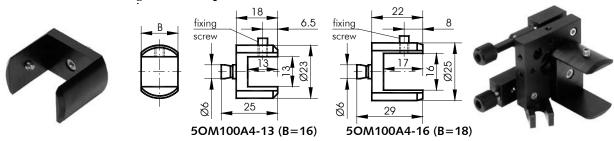
М3

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Connecting cone facilitates adjustment of the adapter. The cut-off side clears the edge of the optics for working with a beam very closely situated to another beam. Optics is firmly clutched by a stainless steel fixing screw and rests against the two contact lines formed at the cut-off side. The adapter is suitable for optical elements upto Ø50 mm (2 inch) in diameter.

Prism and Polarizing Cube Adapters 50M100A4



Connecting cone allows to adjust the adapter to the required angle by hand. The adapter allows to work with two beams going close to each other. Stainless steel fixing screw clutches optics firmly. There are two models: 50M100A4-13, and 50M100A4-16 (apertures 13 and 16 mm).

Small Optical Mount of Side Drive

50M10T



- Single side drive

- Tilt/tip ±5° about two orthogonal axes

- Fine adjustment screws with 0.25 mm pitch

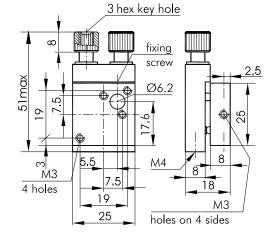
- Hardened seats under adjustment screws

- Sensitivity 10 arcsec

- Large assortment of additional adapters

- Material: black anodized aluminium

- Weight: 0.05 kg



50M10T is designed to hold optics in schemes of high density. **Adapters** are available for round and rectangular lenses, mirrors and beamsplitters or polarizing cubes (see below and next page).

The unit mounts on one M4 hole in its base. Special Base Mounts (see below) and standard ones are available in order to mount the unit in various orientations.

A platform has four M3 holes on its face for mounting of optics, and three M4 holes on the sides for adapters.

Adapters with connecting cones match the \emptyset **6.2 mm** hole, where a cone is clutched by the fixing screw.

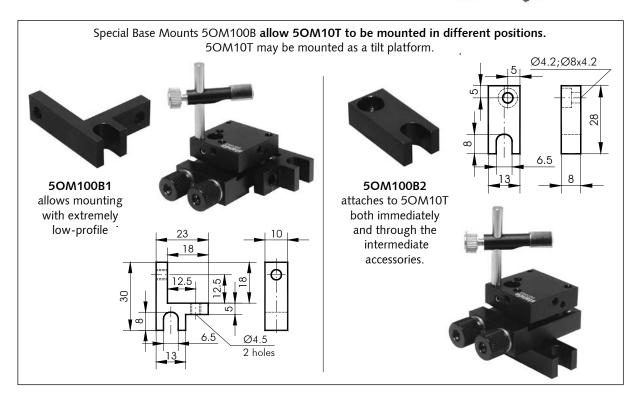
A platform is preloaded against a base by coil springs. The mount is held together and stabilized by a flat spring.

Note: 5OM10T replaces the older mount 5OM100T.

The pictures on this and on the next page show how to combine bases and adapters with the old mount 5OM100T.

These adapters combine in the same manner with the new mount 5OM10T.





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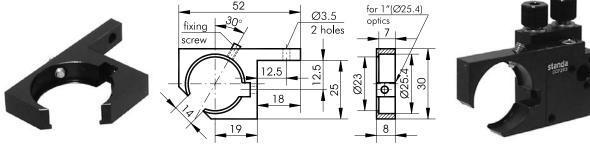
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e.g. 50M111, 50M122T. For more adapters browse this catalogue, e.g. in article 50M1227

Many of these adapters may be used with other mounts,

Round Optics Adapter 50M100A1



50M100A1 may be attached to the platform of 50M10T mount on any side. Optics is firmly held by a stainless steel fixing screw, and it rests against two contact lines – the edges of the cut-off corner. The frame doesn't obstruct the view. It allows to work with two beams going very close to each other.

Miniature Clamp 50M100A2

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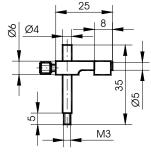
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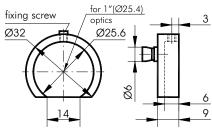
Ideal if the mount is used as a tilt platform. It has a fixing screw, and a plastic fastening pad. Allows fastening of optical elements upto 1". The rod has a

mounting thread M3. So the clamp combines with any units, which has M3 holes.

Mirror Adapter 50M100A3

For optics up to 2" see 5OM122A3 in article 5OM122T

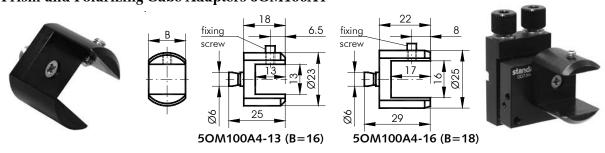






Connecting cone facilitates adjustment of the adapter to required position. The cut-off side clears the edge of the optics for working with a beam very closely situated to another beam. A fixing screw of stainless steel clutches optics firmly against two contact lines formed at the cut-off side.

Prism and Polarizing Cube Adapters 50M100A4



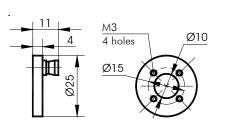
Connecting cone allows to adjust the adapter to the required angle by hand. The adapter allows to work with two beams going close to each other. Stainless

steel fixing screw clutches optics firmly. There are two models: 50M100A4-13, and 50M100A4-16 (apertures 13 and 16 mm).

Platform Adapter 5OM100A5



Allows to turn optics to a convenient position.





Budget Precision Optical Mounts of Side Control

Series T

50BM119T

- Original L-shaped flat spring
- Adjustment of both angles is controlled from one side
- Ideal for high density optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Travel range ±2°
- Hardened inserts under adjusters

Budget Precision Optical Mounts of Side Control enable to greatly increase thickness of optical elements as it has a convenient access to the adjustment handles.

L-shaped flat spring of original design provides great stability of the mount's platform. The spring performs two functions: that of a usual spring, and also eliminates polarizing rotation of the platform.

Angular range is $\pm 2^{\circ}$ about each of the two orthogonal axes. Precision screws with pitch of 0.25 mm provide sensitivity of 10 arcsec.

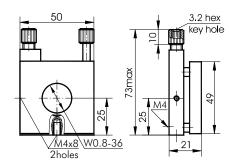
Three M4 tapped holes on the sides of the base and on its back allow a variety of mounting configurations, e.g. horizontal and vertical.

The mount is produced from black anodized aluminium. L-shaped spring is produced from high quality stainless spring steel.

Objective Mount

The Objective Mount of Side Control 5OB-M119T has W0.8-36 aperture and is used for precise adjustments of standard microscope objective lenses and ensures low-cost positioning of a focus point. Also it can be used in the fiber optics.

Weight 0.1 kg

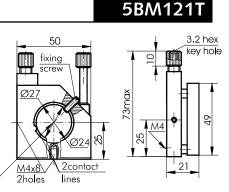


Beamsplitters/Optics Mount

The Beamsplitters/Optics Mount 5BM121T is designed to adjust beamsplitters measuring \(\infty 25 mm. \) Fixing screw with a plastic tip clutches a beamsplitter against 2 contact lines. The aperture has a rest-blade around its edge designed to stop optics inside.

Weight 0.09 kg



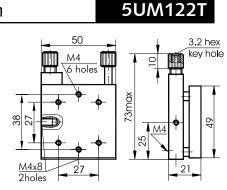




Universal Mirror Mount/Platform

The Universal Mirror Mount/Platform **5UM122T** is suited for precise adjustments of standard mirrors which can be directly bound to it. The Mount may also be used in horizontal position as a tilt table. Then it can be used to align opto-mechanics around two axes.

Weight 0.12 kg

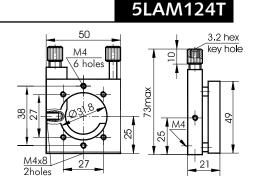




Large Aperture Optical Mount

The Large Aperture Optical Mount **5LAM124T** on its platform has \emptyset **31.8** aperture and three M4 mounting holes. It is designed for precise orthogonal adjustment of mirrors.

Weight 0.09 kg



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Base Positioners

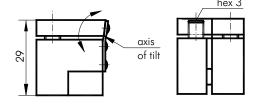
- Top side drive
- Compact design for dense optical schemes
- Stable design
- Material: black anodized

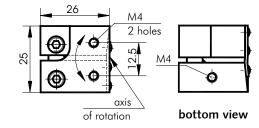
Miniature Tilt/Rotation Mount 50M101T allows to tilt and rotate an optical component.

A flat spring preloads three main pieces of the mount which make it bend on two separate pivot axes. Mounts of other designs have a common pivot point for all adjustments. The design ensures that both adjustment movements are independent and do not cause mutual distortions, so the adjustment scheme is very close to an ideal kinematic model.

Mounting surface with two M4 holes in the platform is on the same side with the adjustment screws.

Best for crystal adjustment!



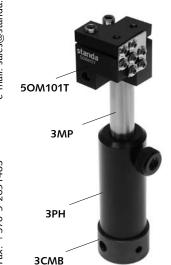


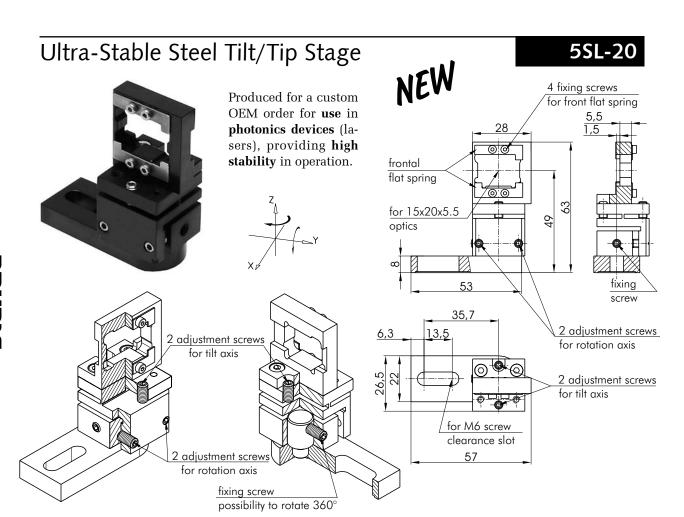
Base of the mount has an M4 hole for mounting to other positioners.

The adjustment screws have a pitch of 0.25 mm. Each screw can be driven with a 3 mm hex key.

SPECIFICATIONS

Tilt range	6°
Rotation range	6°
Sensitivity	10 arcsec
Weight	0.06 kg









- 6° tilt and in-plane rotation

aluminium

standa

Beamsplitter Mount of Side Drive

5BM59T-1

e-mail: sales@standa.lt

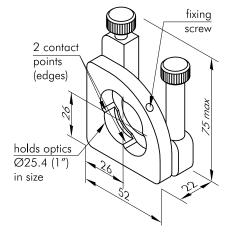
http://www.standa.lt

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Original stabilized L-shaped flat spring

- Dimensions most compact among 1" optics mounts
- Both tilt and tip are controlled from aside the optical path
- Ideal for dense optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Hardened inserts under adjusters
- Accepts optics 25.4 mm (1 inch) in diameter
- Tilt/tip travel range ±2°
- Two pick-hollows allow gripping optics while reinserting
- Horizontal and Vertical mounting
- Mounting holes M4 on three sides



pick-hollows ease lifting of optics Adjustable Beamsplitter Mount 5BM59T-1 complements our range of Series T mounts with additional features, like pick-hollows yet more stabilized spring. The style of the mount relates to such units as 5APH59T-1 and 5MBM21-1.

The mount accepts optics **25.4 mm** in diameter. Optics is stopped by a **rest-flange** inside the central aperture of the platform, and is secured by a steel hex fixing screw.

The fixing screw has a hard plastic tip to prevent damage to the optics.

To allow an **unimpeded** access for your fingers there are two **pick-hollows**. Now you may forget about problems like: hassle and stains while picking the optics out, or dropping the optics before you secure it.

Pick-hollows form two lines of contact in the aperture. Clamped by the fixing screw, optics rests against these two lines, so its position stays definite.

Angular adjustment range of tilt/tip is ±2°.

Side control of tilt and tip is done by two stainless steel fine adjustment screws with pitch of **0.25 mm**. The screws push rolling balls against **hardened seats**, ensuring smooth operation and sensitivity of **3 arcsec**.

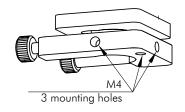
Large knobs ease the strain on your fingers that this tight and stable system might cause. Both screws protrude from the top. Control from one side

allows easy access, and dense placement of surrounding instruments.

The platform is preloaded with L-shaped flat spring of our **original design** which renders the great stability and eliminates induced polarization.

Three M4 tapped holes on the sides of the base and on its back allow horizontal or vertical mounting. The holder easily mounts on posts and bases.

Material: black anodized aluminium. L-shaped spring is made of high quality stainless spring steel.



3 mounting holes allow different mounting orientations

SPECIFICATIONS

Tilt/tip range	±2°
Sensitivity	3 arcsec
Optics accepted	
Diameter	≤ Ø25.4 mm
Clear aperture	23 mm
Weight	0.1 kg



5APH59T-1

standa

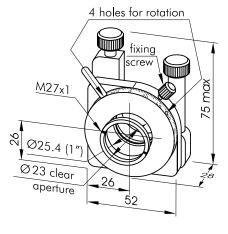
Adjustable Polarizer Holder of Side Drive

- Original stabilized L-shaped flat spring

- **Dimensions most compact** among 1" optics mounts
- Both tilt and tip are controlled from aside the optical path
- Ideal for dense optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Hardened inserts under adjusters

- Accepts optics 25.4 mm (1") in diameter

- Accepts optics upto 10.5 mm thick
- Tilt/tip travel range ±2°
- Roller bearings
- Lockable
- Continuous 360° rotation
- Horizontal and Vertical mounting
- Mounting holes M4 on three sides



Adjustable Polarizer Holder 5APH59T-1 is a 1 inch polarizer with an integrated adjustment of tilt and tip about two orthogonal axes within ±2°. The design is the slimmest ever.

The polarizer platform is graduated in 2° on a 360° angular scale. The platform has a removable rod by which you rotate it continuously the whole 360°, without obscuring the aperture. You can use the rod on any of the 4 holes on the perimeter.

The holder accepts Ø25.4 mm optics. Optics is stopped by a rest-flange, and is secured by a threaded retaining ring with \emptyset **23 mm** clear aperture. A tightening key **3K-25** for the retaining ring is available on request.

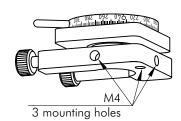
Tilt and tip is done by two stainless steel fine adjustment screws with pitch of **0.25 mm**. The screws push rolling balls against hardened seats, ensuring smooth operation and sensitivity of 3 arcsec.

Large knobs ease the strain on your fingers. Both screws protrude from the top side, allowing easy access in dense schemes.

For tilting, the platform is preloaded against the base with L-shaped flat spring of our original design which renders great stability and eliminates induced polarization.

Three M4 tapped holes on the sides of the base and on its back allow horizontal or vertical mounting. The holder easily mounts on posts and bases.

Material: black anodized aluminium. L-shaped spring is made of high quality stainless spring steel.



3 mounting holes allow different mounting orientations, e.g. as a rotation stage.

Thickness

Clear aperture

Weight

≤ 10.5 mm

23 mm

0.15 kg



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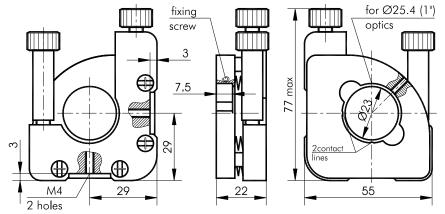
e-mail: sales@standa.lt

Kinematic Optical Mount of Side Drive

5BM69T-1



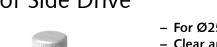
- For Ø25.4 mm (1 inch) optics
- Clear aperture 23 mm
- Kinematic design
- **Dimensions most compact** among 1 inch optics mounts
- Tilt/tip range ±2°
- Sensitivity 3 arcsec
- Both tilt and tip controlled from aside the optical path
- Ideal for dense optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Hardened seats under adjustment screws
- Weight 0.12 kg



To prevent damage to the optics the fixing screw has a plastic tip.

Kinematic Adjustable Polarizer Holder of Side Drive

5APH69T-1

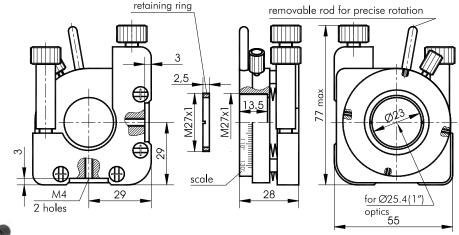


- For Ø25.4 mm (1 inch) optics
- Clear aperture 23 mm
- Kinematic design
- Dimensions most compact among 1 inch optics mounts
- Tilt/tip range ±2°
- Sensitivity 3 arcsec
- Both tilt and tip controlled from aside the optical path
- Ideal for dense optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Hardened seats under adjustment screws
- Rotation range 360°
- Scale gradation 2°
- Weight 0.12 kg



A retaining ring M27x1 to fix the optics is included.

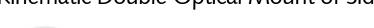
A tightening key **3K-25** for the retaining ring is available on request.



Model	Accepts optics, diameter	Places for optics	Weight, kg
5APH69T-1	25.4 mm (1 inch)	1	0.13
5APH79T-1	25.4 mm (1 inch)	2	0.13
5BM69T-1	25.4 mm (1 inch)	1	0.10
5BM79T-1	25.4 mm (1 inch)	2	0.10

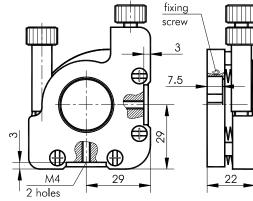


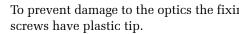
for Ø25.4 (1")



- For Ø25.4 mm (1 inch) optics

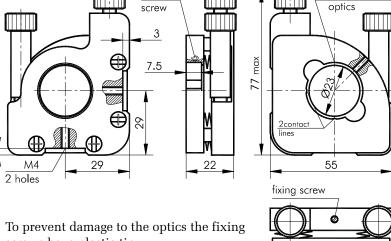
- Clear aperture 23 mm
- Kinematic design
- **Dimensions most compact** among 1 inch optics mounts
- Tilt/tip range ±2°
- Sensitivity 3 arcsec
- Both tilt and tip controlled from aside the optical path
- Ideal for dense optical schemes
- Fine adjustment screws with 0.25 mm pitch
- Hardened seats under adjustment
- Accepts two pieces of optics: on the platform (adjustable), and on the base (not adjustable)







front and rear view - the base has an aperture for the second optics (not adjustable)



Kinematic Double Optical Mount of Side

5APH79T-

Drive with Adjustable Polarizer Holder

- For Ø25.4 mm (1 inch) optics
- Clear aperture 23 mm
- Kinematic design
- **Dimensions most compact** among 1 inch optics mounts
- Tilt/tip range ±2°
- Sensitivity 3 arcsec
- Both tilt and tip controlled from aside the optical path
- Ideal for dense optical schemes

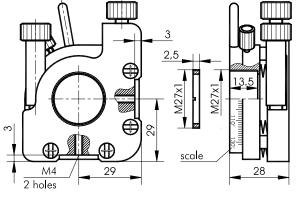
- Fine adjustment screws with 0.25 mm pitch
- Hardened seats under adjustment screws
- Rotation range 360°
- Scale gradation 2°
- Accepts two pieces of optics: on the platform (adjustable), and on the base (not adjustable)

removable rod for precise rotation



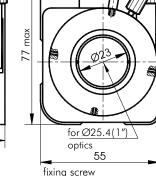


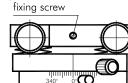
back view - the base has an aperture for the second optics (not adjustable)



The screw for fixing optics in the base has a plas-

A retaining ring M27x1 to fix the optics is included. A tightening key 3K-25 for the retaining ring is available on request.





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of its products without prior notice.

STANDA reserves the right to make changes to any

Polarizer Holders

Polarizer Holders

5PH50



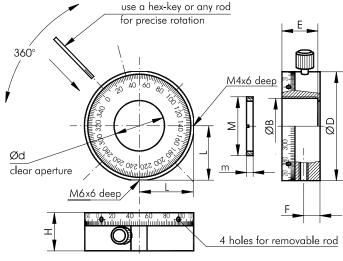
two scales extend viewing range

Polarizer Holders 5PH50 are ideal for positioning rotation sensitive optics such as polarizers or waveplates. Holders are offered for optics 1", 2" and 3" in diameter. Optics is placed inside central aperture, where it is securely held in place by a threaded retaining ring. The position is indicated on two 360° angular scales, with gradation of 2°. Where space doesn't allow to read one scale, you always will be able to view another.

The base of a holder has threaded holes M6 and M4 for mounting on posts or bases. 5PH50 has a removable rod to rotate the platform by any of its 4 holes.

Material: black anodized aluminium.

- 2 engraved scales located on face and outer surfaces
- Compact design with roller bearings
- Lockable
- Continuous 360° rotation
- Direct mounting of optics 1", 2" or 3" in diameter



5PH50-1, 5PH50-2

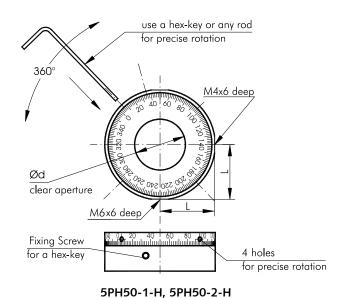
Model	D , mm	E, mm	H, mm	B, mm	d, mm	L, mm	M, mm	F, mm	m, mm	Weight, kg
5PH50-1	51	16.5	17.5	25.5	23	25	M27x1	7.5	2.5	0.08
5PH50-1-H	51	16.5	17.5	25.5	23	25	M27x1	7.5	2.5	0.08
5PH50-2	82	19	20	51.5	48	40.5	M53x1	9.5	2.5	0.18
5PH50-2-H	82	19	20	51.5	48	40.5	M53x1	9.5	2.5	0.17
5PH50-3	115	24.5	26.5	76.9	72	57	M78x1	12	3.5	0.46
5PH50-3-H	115	24.5	26.5	76.9	72	57	M78x1	12	3.5	0.45

Polarizer Holders

Polarizer Holders 5PH50-H are the same as 5PH50, except that their fixing screw is tightened with a hex-key (included), this way fixing screw doesn't stand out from the surface.

Like in 5PH50, the platform is rotated by any rod or the same hex key.





Ordering Polarizer Holders

5PH50, 5PHH50, 5PH51 - 1 and 2 inch

1" polarizer holders 5PH50-1, 5PH50-1-H, 5PH51-1, 5PHH50-1, are available from stock.

2" polarizer holders 5PH50-2, 5PH50-2-H, 5PH51-2, 5PHH50-2 are produced on demand. A tightening key for the retaining ring is available on request: 3K-25 for 1", or 3K-50 for 2" holders. e-mail: sales@standa.lt

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Polarizer Holders



Scale with variable origin

- Revolving scale resets the angular position
- Conical scale easily read from a wide angle
- Continuous 360° rotation
- Lockable

- Accepts 1" optics (25.4 mm); 2" model available

5PH51-1 • 5PH51-2

- Accepts optics up to 19 mm thick
- Mounting holes M6 and M4
- Compact design with roller bearings

Polarizer Holder 5PH51 is an original mount with revolving conical angular scale on the face of the holder. This enables the user to set the current position on the scale to any chosen angle independently of the position of the holder.

The optical element is secured inside central aperture of the platform of the holder by the threaded retaining ring. The zero on the revolving scale is aligned to the desired axis of transmission.

For example rotate the platform to choose the required orientation of polarization. Lock the platform with its fixing screw. Revolve the scale to reset its zero origin. Lock the scale by retightening its own two fixing screws. Now the scale moves simultaneously with the platform of the holder, so you measure angles relative to any initial position.

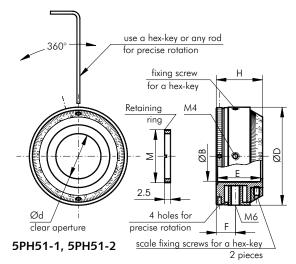
The holder accepts rotation sensitive optics 1" (25.4 mm) or 2" (50.8 mm) in diameter.

The scale is graduated into 2° increments. It is engraved on a conical surface. Angle of the cone is 60°. So the **scale** is read from a wide angle.

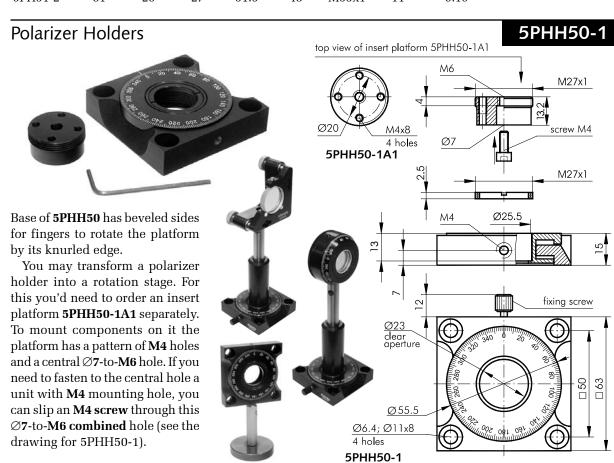
The platform rotates a full **360°**. It has a **knurled edge** for easy grip. Also it has **4** holes on its perimeter. Use the same **1.5 mm hex-key** to rotate the platform by these holes, to lock the platform, and to lock the revolving conical scale.

To mount on posts or bases the holder has M6 and M4 holes in its base. Yet the design is compact.

Material: black anodized aluminium.



Model	D , mm	E, mm	H, mm	B, mm	d, mm	M, mm	F , mm	Weight, kg
5PH51-1	50	23	24	25.5	23	M27x1	10	0.09
5PH51-2	81	26	27	51.5	48	M53x1	11	0.19





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Y-Z Positioner for Lens, Pinholes, and Objectives

5ZYP

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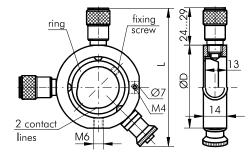
Phone: +370-5-2651474 Fax: +370-5-2651483



Y-Z Positioners for Lens, Pinholes and Objectives 5ZYP are compact mounts designed to precisely position optical components in the plane orthogonal to the optical axis. Ideal for microscope objectives, mounted pinholes, fiber optics chucks, and diode lasers.

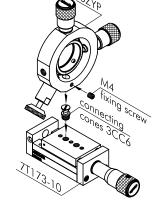
The mounts provide **5 mm** translation with sensitivity of 2 μm.

Two Standa adjustment screws are used for positioning. They can be replaced with any screw or micrometer with M10x1 mounting thread.



Model	D , mm	d, mm	C, mm	L, mm	Weight, kg
5ZYP-1	58	25.5	24	102	0.26
5ZYP-2	83	51	48	127	0.38

Insert rings for 5ZYP



The stage comes with 9S65M screw as standard. You don't have to specify this screw in your order. If you order the stage with alternative screws, please specify this in order, by appending the screw code name to the stage code. See section 9 for screws and their codes.

Two ways to fasten 5ZYP: by an M6 hole or on a connecting cone **3CC4**, **3CC6** by a \emptyset **7** hole.

Material: black anodized aluminium.

A1, A2 B1, B2 W 0.8 **W0.8**

ORDERING INFORMATION

5ZYP-1-A1 - 1" Positioner with ring A1 5ZYP-1-B1

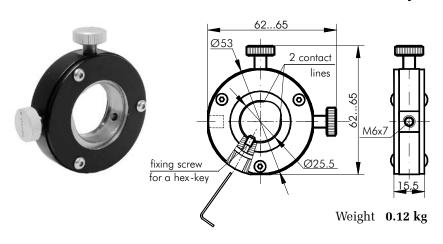
5ZYP-2-A2 - 2" Positioner with ring A2 - 1" **Positioner** with ring **B1**

5ZYP-1-W0.8 - 1" Positioner with ring W0.8

5ZYP-2-B2 - 2" Positioner with ring B2

Y-Z Positioner for Lens, Pinholes and Objectives

5TLM-1

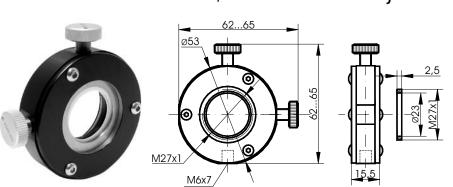


- Travel range 3 mm

Y-Z Positioner 5TLM-1 accepts optics of Ø25.4 mm. Optics is stopped by a restflange inside the central aperture of the platform and is secured by a hex fixing screw with hard plastic tip. 5TLM-1 is ideal for microscope objectives, mounted pinholes, fiber optics chucks and diode lasers.

Y-Z Positioner for Lens, Pinholes and Objectives

5TLM-1TH



- Travel range 3 mm

Two plastic padding rings and a retaining ring M27x1 to fix the optics are included.

A tightening key **3K-25** for the retaining ring is available on request.

Weight 0.12 kg

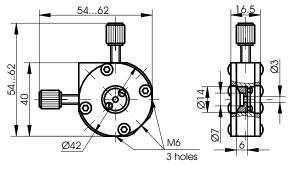
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Base Positioners

Measurement 11

Self-made Pinholes Y-Z Mount





5ZYPS

standard configuration with screws 9S7C.

Self-made Pinholes Y-Z Mount 5ZYPS has two screws to adjust the pinhole about two axes in **8 mm** range. 5ZYPS has a pinhole

holder mounted – 14 mm in diameter with 3 mm clear aperture, made of steel. On request

we supply pinholes. Or you may insert a \emptyset 7 disk of thin sheet of any material into this holder, and you will be able to make a hole at any desired position using any available method (e.g. with a needle).

5ZYPS has three M6 holes and it can be mounted on Mounting Posts 3MP6.

Weight **0.1 kg**

Translating Post Holder



- Fine post height adjustment within
 13 mm without rotation
- One rotation of adjustment ring adjusts height of post by 1 mm
- High stability position locking

Translation Post Holder 3TPH-13 is used for height adjustment of components mounted on 12 mm posts 3MP or equivalent. Range of coarse height setting is 50 mm. After coarsely setting position, post is locked inside the 12 mm round bore with stable two-line contact using upper thumbscrew with hex socket. Precise height

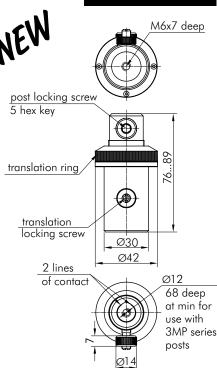
adjustment is then done by a handy knurled adjustment ring. One rotation of the ring moves the post up or down 1 mm to a total of 13 mm. Precise position can be locked using the lower thumbscrew.

M6 threaded hole in the base can be used for attaching directly to optical table, to other positioners or to magnetic bases 3CMB.

Material: black anodized aluminum.

Weight: 0.15 kg

3TPH-13



Locking Option





50BM119TL

example – lockable versions of these standard units: 5MBM22S. 5OBM119T. 7T228T You may order lockable versions of our mounts.

There are different locking mechanisms. They lock a Fine Screw, while causing a slightest displacement possible. A lock at each Fine Screw is tightened with a hex key.

For lockable versions the code is formed by appending letter "L" to the code of the standard unit.

Some models of our Ultra Fine Screws (see Section 9) have locking mechanisms of their own. You may use them, just make sure a given unit has the appropriate mounting holes for these screws.

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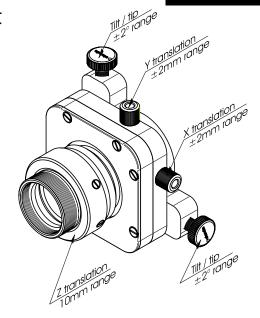
Kinematic Optical Mount

Translation Optical Mount

SPECIFICATIONS

Optics diameter	Ø25.4 mm
Tilt/tip range	±2°
screw thread pitch 2	250 μm (100TPI)
Sensitivity	3 arcsec
XY translation range	±2 mm
screw thread pitch 2	250 μm (100TPI)
Sensitivity for XY transla	tion $1 \mu m$
Sensitivity for Z translati	on $1 \mu m$
Z translation range	10 mm
Material black anodiz	zed aluminium
Weight	0.28 kg

5KOM • 5TOM

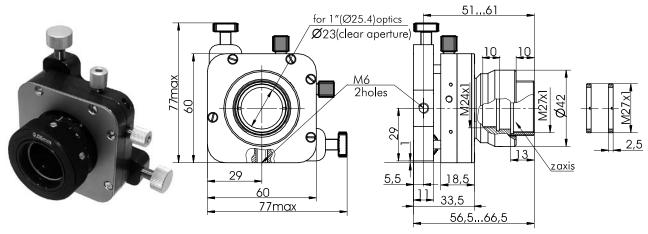


ORDERING INFORMATION

5KOM5-1	Five Axis Kinematic Optical Mount:	Tilt/tip range; - XY translation range;Z translation range
5KOM5F-1	Five Axis Kinematic Optical Mount	with reinforced springs for mounting of heavy objects
5KOM4-1	Four Axis Kinematic Optical Mount:	- Tilt/tip range; - XY translation range
5TOM3-1	Three Axis Translation Optical Mount:	- $\mathbf{X}\mathbf{Y}$ translation range; - \mathbf{Z} translation range
5TOM2-1	Two Axis Translation Optical Mount:	- XY translation range

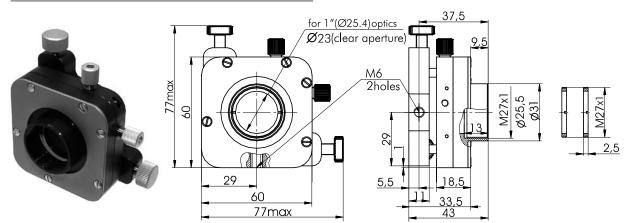
Five Axis Kinematic Optical Mount

5KOM5-1



Four Axis Kinematic Optical Mount

5KOM4-1





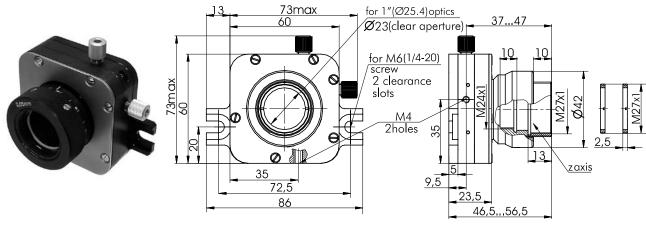
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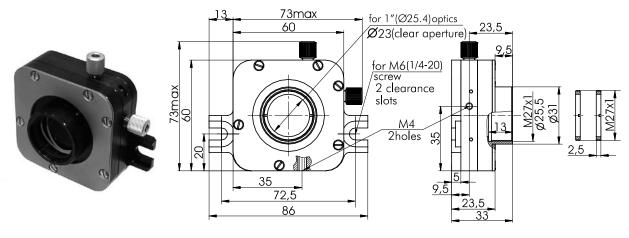
5TOM3-1

Three Axis Translation Optical Mount



Two Axis Translation Optical Mount

5TOM2-1



Adapter

 \bigoplus

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e-mail: sales@standa.lt

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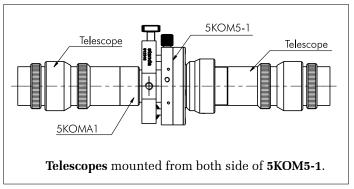
Fax: +370-5-2651483

Phone: +370-5-2651474



Material: aluminium with black finish.

Adapter 5KOMA1 is used with 5KOM5-1, 5KOM5F-1 and 5TOM3-1 for mounting objects that have M27x1 thread on the back side of the mount.



5KOMA1

Two-Axis Optical Mount 5TOM2-1 with Compact

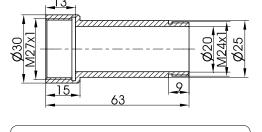
Motorized

Actuators

8CMA20-8/15

page 8-30

8MT0M2-1





Kinematic Vertical Drive Optical Mounts Vertical Drive Optical Mounts



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5KVDOM-1

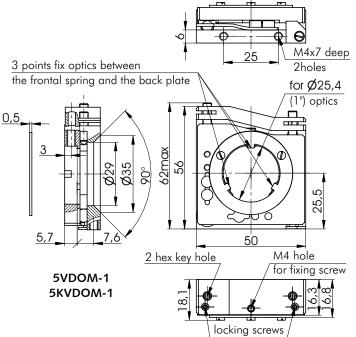
- For 1", 2" or 3" optics
- Stainless steel
- Compact/robust design
- Lockable adjustment screws
- Fine screws pitch 0.25 mm (101.6 TPI)
- Tilt/tip range ±2.5°
- Sensitivity 2 arcsec
- Vacuum compatible version is available on request

ORDERING INFORMATION

5KVDOM-1 5VDOM-1 5KVDOM-2 5KVDOM-3

Ultra-stable Kinematic Mirror Mount for Ø25.4 mm (1 inch) optics Ultra-stable Mirror Mount with L-shaped flat spring for Ø25.4 mm (1 inch) optics Ultra-stable Kinematic Mirror Mount for Ø50.8 mm (2 inch) optics Ultra-stable Kinematic Mirror Mount for Ø76.5 mm (3 inch) optics

Detailed information at www.STANDA.LT

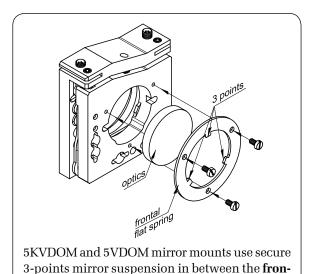


1,5 hex key hole

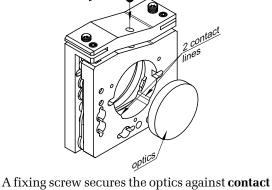
Ultra-stable Mirror Mounts 5KVDOM and 5VDOM are designed to minimize mount-induced wavefront distortions. In conventional mounts, the mirror is tightened by a side screw. Radial forces acting on the mirror induces parasitic wavefront distortion, such as astigma-

Uniformly distributed axial forces eliminate wavefront distortion.

These mounts are ideal for industrial applications in different optical devices (laser cavities, optical sub-assemblies, limited space applications) because of their long-term stability.



tal flat spring and the back plate.



lines, which make 2 contact points. To prevent damage to the optics, the tip of the fixing screw is made of plastic.

3BPVDOM

Universal Base Plate

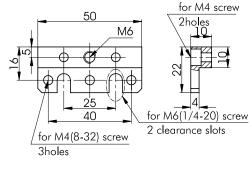


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http://www.standa.lt

e-mail: sales@standa.lt

Phone: +370-5-2651474 Fax: +370-5-2651483



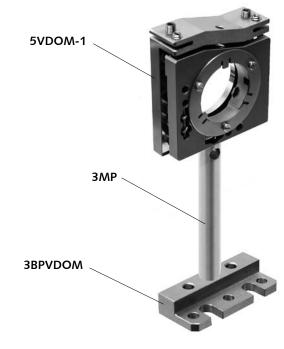


Available motor version 8MKVDOM-1



- Material of Optical Mount - Stainless steel
- Compact design
- Used actuator 8CMA20-8/15

Motorized Vertical drive optical mount 8MKVDOM-1 with 2 axis step motor Manual Controller in box 8SMMC2-B2-2







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Kinematic Vertical Drive Optical Mount

5KVDOM-05

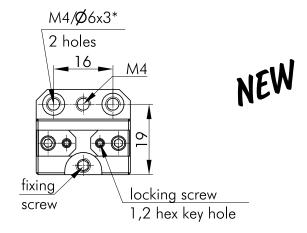




ORDERING INFORMATION

5KVDOM-05 Ultra-stable **Kinematic** Mirror Mount 5KVDOM-05.10 Frontal flat spring

Fine Adjustment screw M4x0,25 2 hex key hole M2,5x3,5 deep 2 holes Ø12<u>,9x4,7</u> ഗ 36,5 deep M4x6 23 25,4 deep



- For Ø12.7 mm (0.5 inch) optics

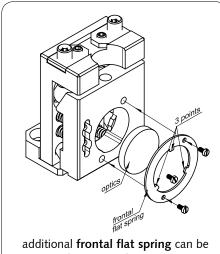
- Stainless steel
- Compact/robust design
- Lockable adjustment screws
- Fine screws pitch 0.25 mm (101,6 TPI)
- Tilt/tip range ±2.5°
- Sensitivity 2 arcsec
- Vacuum compatible version is available on request
- Weight 0.1 kg

Kinematic Vertical Drive Optical Mount 5KVDOM-05 is designed to minimize mount-induced wavefront distortions. In conventional mounts, the mirror is tightened by a side screw. Radial forces acting on the mirror induces parasitic wavefront distortion, such as astigmatism.

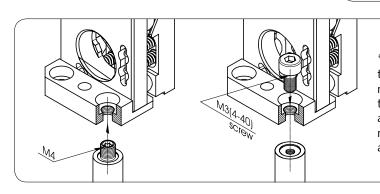
Uniformly distributed axial forces eliminate wavefront distortion.

This mount is ideal for industrial applications in different optical devices (laser cavities, optical sub-assemblies, limited space applications) because of their long-term stability.

A fixing screw secures the optics against contact lines, which make 2 contact points. To prevent damage to the optics, the tip of the fixing screw is made of **plastic**.



ordered for optics of given thickness



*slide M3(4-40) screws through combined M4/Ø6 mounting/clearance holes to mount the unit immediately to M3(4-40) holes, or mount the unit directly on any M4 tip

Base Positioners

standa

We will gladly assist you in building your own system from scratch or adapting it to an existing setup. We design, test, and remodel custom gadgets till they work as you specify.

Here are some examples.



Super stable L-shaped Optical Mount for optics of various types and dimensions We modify
our standard
products
according to
your request
even for
one piece order



A custom slit,
7R7 – a rotation stage,
50M122T – an optical mount (2 axis tilt),
7T164 – an ultra low profile translation stage,
custom brackets and a plate.

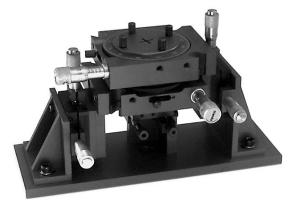


50BM119T – 2 axis tilt optical mount, three **8MT167-25** – motorized translation stages stacked in **XYZ** axes,

8MR180 – motorized rotation stage,

3MB6 - magnetic base.

The set also contains custom brackets and plates.



Two custom profile slits overlap. Each sits on its own independent system designed to align it against a target seated on a 2 axis tilt optics mount **50M122T**.

Each alignment system consists of:

7R129 – rotation stage,

7T264 – 2 axis translation stage.

The set also contains custom brackets and plates.



Gimbal system, that contains: 8MR180-2 – two motorized rotation stages. Two sets of custom brackets.

Fresnel Rhomb retarders



Closed type Fresnel Rhomb adapted for use with a Mini Rotation Stage 7R7.



Open type Fresnel Rhomb adapted for use with a Mini Rotation Stage **7R7**.

Large Adjustable Kinematic Optical Mount

5AM-250 5TAM-250

e-mail: sales@standa.lt

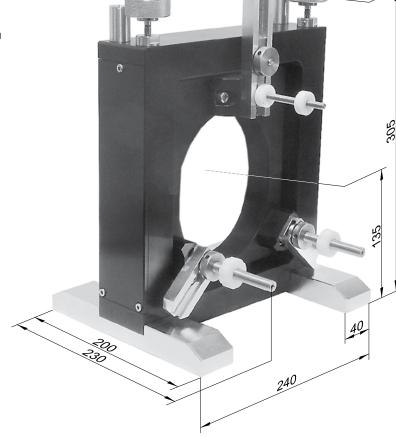
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Phone: +370-5-2651474 Fax: +370-5-2651483

5AM-250

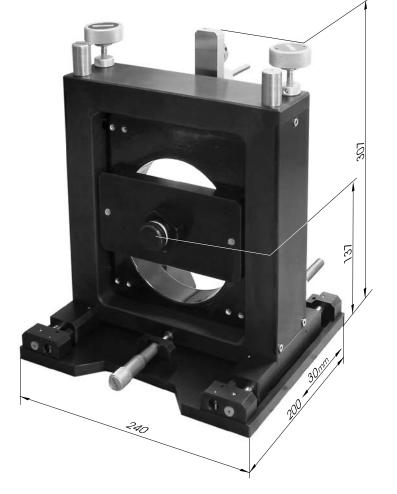
- 2 axis
- Tilt/tip travel range ±1.5°
- Optics diameter 115 ÷ 250 mm
- Optics thickness 52 mm
- Sensitivity 0.5 arcsec
- Load capacity 6 kg
- Weight 10.1 kg

Super fine and stable Kinematic Optical Mounts **5AM-250** and **5TAM-250** for large and heavy optics. Optionally universal element holder can be mounted from the backside of the holder to easily adapt the holder for test parts of various sizes and shapes.



5TAM-250

- 3 axis
- Tilt/tip travel range ±1,5°
- X axis translation range 30 mm
- Optics diameter 115÷250 mm
- Optics thickness 52 mm
- Sensitivity 0.5 arcsec.
- Load capacity 6 kg
- Weight 10.3 kg







Phone: +370-5-2651474 Fax: +370-5-2651483

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Base Mounts & Accessories

Self-centring Large Aperture Optical Mount

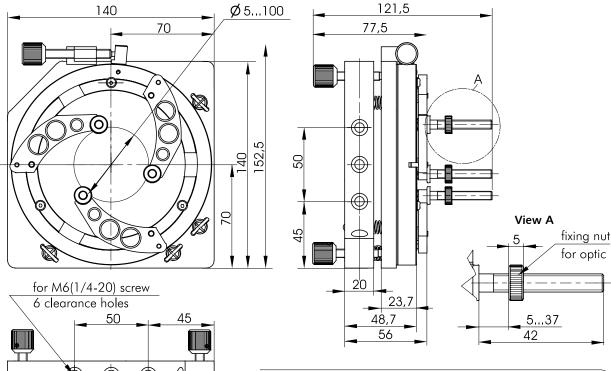
NEW

- Tilt/tip range ±2.2°
- Linear adjustment of X axis is possible on request
- More linear axes are possible on request
- Great variety of optics diameters can be used with this mount

SPECIFICATIONS

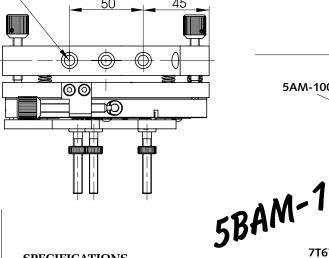
Optics diameter range 5-100 mm Tilt/tip range $\pm 2.2^{\circ}$





5AM-100

7T67-25



SPECIFICATIONS

Optics diameter range Tilt/tip range

Option

Translation stage 7T67-25 Base plate 3BP5BAM

5-100 mm $\pm 2,2^{\circ}$

25 mm



3BP5BAM