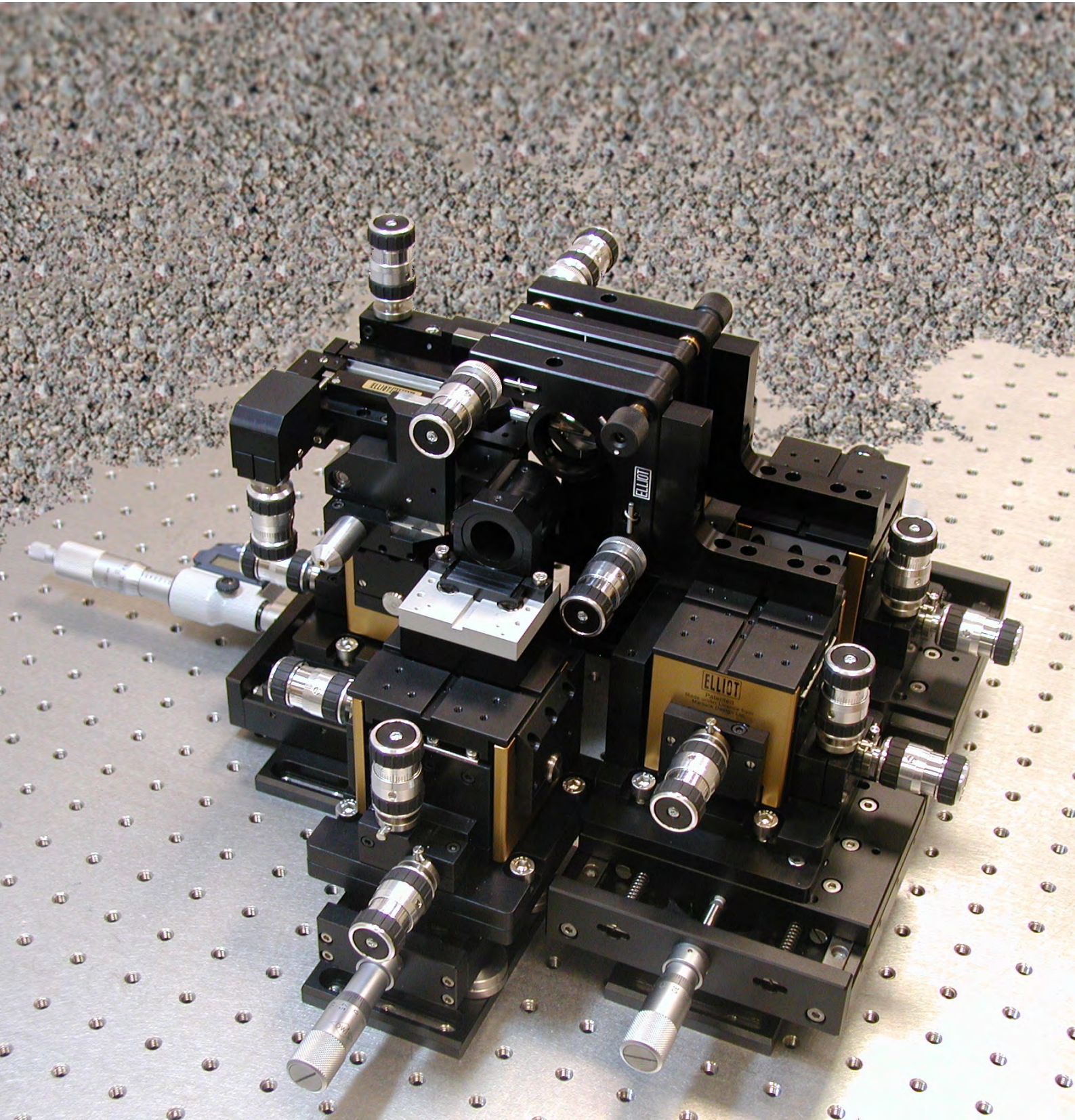


solution science

Elliot Scientific

for research and industry

Opto-Mechanics 2012



Company Profile

Elliot Scientific is a major supplier of Opto-Mechanic components and systems under the Elliot|Martock and Elliot Scientific brands to the Scientific, Research and Industrial communities. In addition, we supply world-class Laser, Cryogenic, Magnetic, Telecom and Datacom systems sourced from many British, North American, European and Far Eastern companies.

Elliot Scientific is uniquely positioned to assist customers by being able to:

- Supply competitive components and systems
- Source, integrate and manufacture complex systems
- Design and manufacture for Custom or OEM requirements

Elliot|Martock

Martock Design became a wholly owned subsidiary of Elliot Scientific in 2003 following thirty years at the forefront of design, development and manufacture of high quality precision instruments and equipment. That tradition continues today as we continually strive to improve and expand the ranges of Elliot|Martock and Elliot Scientific own brand products.

These include our award winning optical tweezer systems, the lab essentials mirror mount range, fibre positioning components, waveguide manipulators, automated alignment systems, micropositioners and other class-leading products.

All of our customers - from academic institutions and government agencies through to commercial researchers and industry - are provided with the highest levels of service backed up by solid technical support from our team of experienced engineers.

Solution Science for Research and Industry

We pride ourselves in offering Solution Science for Research and Industry. We employ the best-qualified staff and scientists to help you sift through the multitude of options available to get the equipment and systems that match your needs. That's **Solution Science**.

Staff

We employ PhD level physicists, scientists and mechanical design engineers to assist you with your product search or application, and to ensure that our advice is correct and balanced. Many of the team have been with us for over ten years, bringing with them a huge amount of experience for you to tap into.

Quality

We have been BS EN ISO 9002 registered since 1993 and BS EN ISO 9001 registered since 2003. We understand the need for continual improvement in services and traceability, both in distribution and manufacture. Our commitment to this ensures our standards are the highest in our industry.

Catalogue & Custom Manufacturing

This catalogue only gives an overview of our extensive range. If you cannot find what you are looking for here, why not phone, fax or e-mail us. Many products have been supplied that started as ideas and concepts requested by customers requiring tailored manipulation systems. With our innovative design experience, we can offer unique solutions in opto-mechanical positioning and control systems. We are here to help you find the right products to meet your requirements.

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½" Posts

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Opto-Mechanics 2012

XYZ Flexure Stages





Elliot Gold™ Series: XYZ Flexure Stages

MDE120 Standard XYZ Flexure Stage



- 200 nm resolution
- 2 mm travel per axis
- 4.5 kg load capacity
- Minimal arcuate displacement
- Orthogonal alignment grooves
- Ultra-stable patented† design XYZ flexure stage



The MDE120 flexure stage is fitted with simple manual adjusters and provides 200 nm of adjustment resolution with 2 mm of travel in each of the three axes.

The Elliot Gold™ series XYZ flexure stage is a development of the immensely popular original stage invented and patented† by Martock Design, now a subsidiary of Elliot Scientific. Flexure stages are ideal for high precision device manipulation.

Applications range from fibre launch systems for single-mode, multimode and polarisation maintaining fibres as well as waveguide alignment, through to the manipulation of microstructures in bioscience. The arcuate displacement (vertical displacement due to longitudinal flexure motion) is up to 4 times better than competing products.

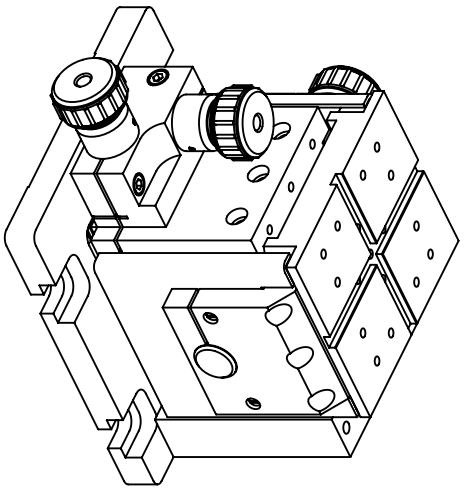
The optical axis height of all accessories is 18 mm above the top plate, placing the optical axis 94 mm above the bottom of the stage.

Specifications

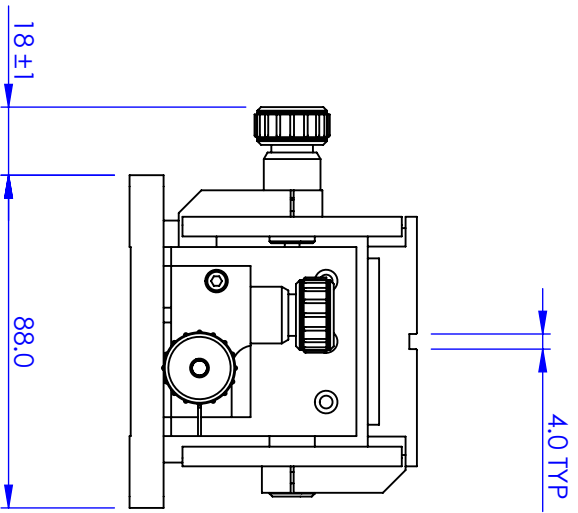
Configuration	Right handed version
Adjuster Type	Three simple, manual adjusters, 0.25 pitch (Model MDE217)
Stage travel	2 mm in X, Y and Z axes
Resolution	200 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis: 20 µm, Y & Z axes: 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Includes	Model MDE154 clamp set
Variants	Left-handed version available

† Patent Nos. GB 2129955B & USA 4635887

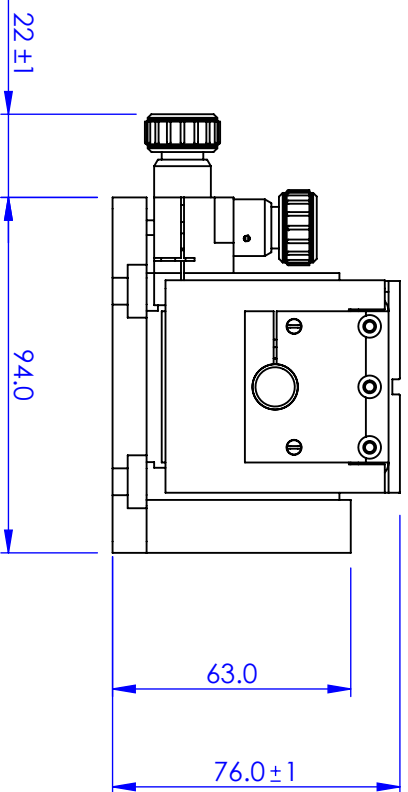
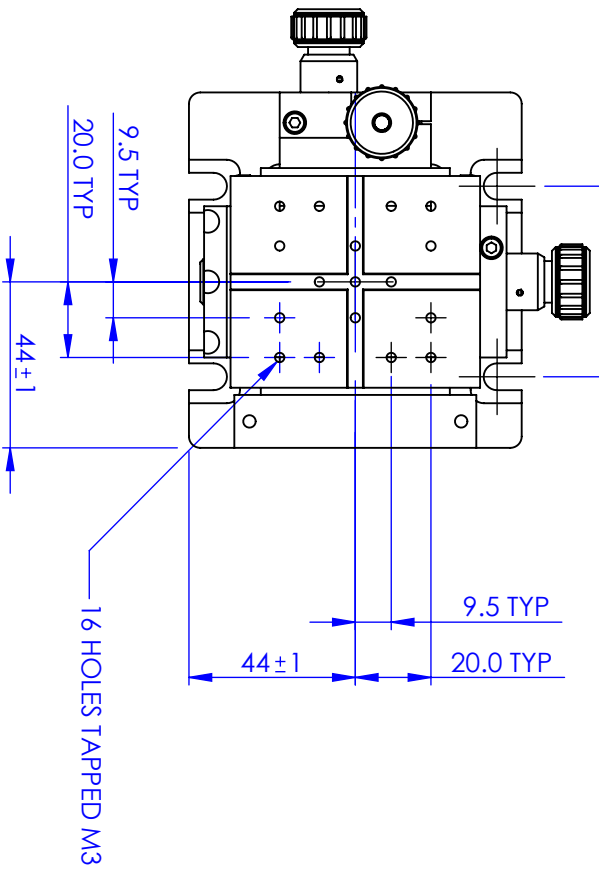
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GENERAL VIEW
SCALE: 1:2



50.4mm FOR METRIC
AND IMPERIAL MOUNTING



REV.	DESCRIPTION	DATE	APPROVED

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Eliot Scientific	
TITLE FLEXURE STAGE	
SIZE A4	DWG. NO. MDE120
SCALE: 1:2	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: XYZ Flexure Stages

MDE122 High-Precision XYZ Flexure Stage



- 20 nm resolution
- 2 mm travel per axis
- 4.5 kg load capacity
- Minimal arcuate displacement
- Orthogonal alignment grooves
- Patented† high resolution adjusters
- Ultra-stable patented†† design XYZ flexure stage



The MDE122 flexure stage is fitted with simple manual adjusters and provides 20 nm of adjustment resolution with 2 mm of travel in each of the three axes.

The Elliot Gold™ series XYZ flexure stage is a development of the immensely popular original stage invented and patented† by Martock Design, now a subsidiary of Elliot Scientific. Flexure stages are ideal for high precision device manipulation.

Applications range from fibre launch systems for single-mode, multimode and polarisation maintaining fibres as well as waveguide alignment, through to the manipulation of microstructures in bioscience. The arcuate displacement (vertical displacement due to longitudinal flexure motion) is up to 4 times better than competing products.

The optical axis height of all accessories is 18 mm above the top plate, placing the optical axis 94 mm above the bottom of the stage.

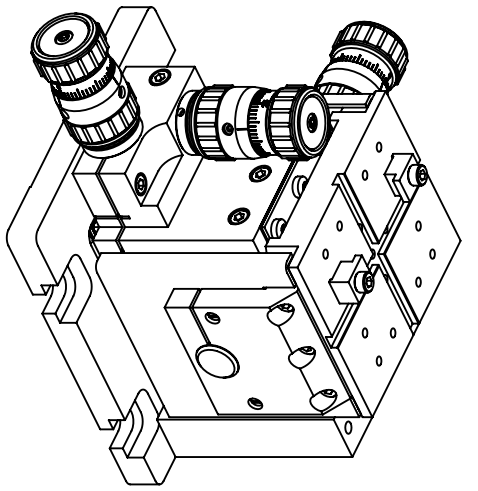
Specifications

Configuration	Right handed version
Adjuster Type	Three high-precision adjusters (Model MDE216) utilising a patented† lever system with rotary fine and coarse control
Stage travel	2 mm in X, Y and Z axes
Resolution	20 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis: 20 µm, Y & Z axes 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Includes	Model MDE154 clamp set
Variants	Left-handed version available

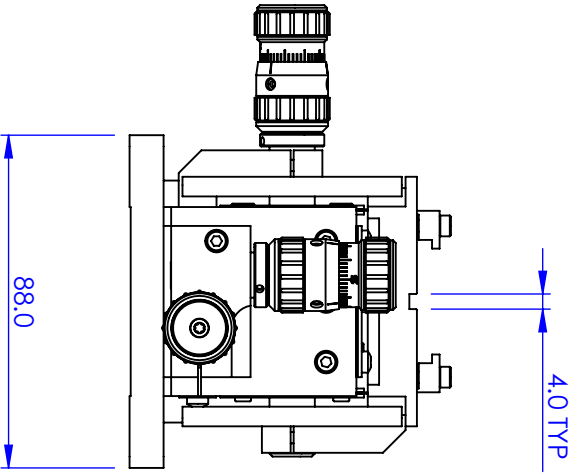
† Patent Nos. GB 2152616B & USA 4617833

†† Patent Nos. GB 2129955B & USA 4635887

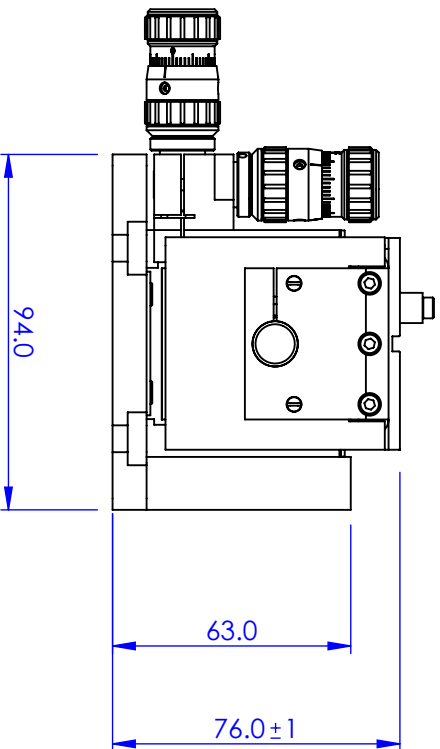
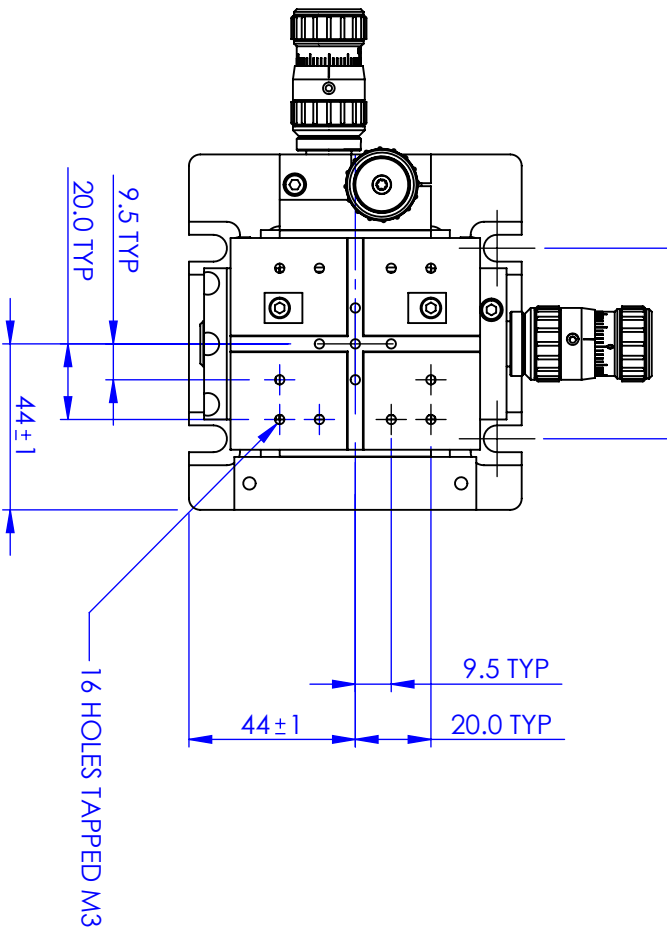
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GENERAL VIEW
SCALE: 1:2



50.4mm FOR METRIC
AND IMPERIAL MOUNTING



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	DESCRIPTION		

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AUTHOR GW	30/06/2010
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Eliot Scientific	
TITLE FLEXURE STAGE	
SIZE A4	DWG. NO. MDE122
SCALE: 1:2	THIRD ANGLE PROJECTION

Elliot Gold™ Series: XYZ Flexure Stages

MDE123 XYZ Flexure Stage with 25 µm Piezo Actuators



- 10 nm resolution
- 25 µm Piezo adjustment travel
- 2 mm coarse travel per axis
- 4.5 kg load capacity
- Minimal arcuate displacement
- Orthogonal alignment grooves
- Ultra-stable patented† design XYZ flexure stage



The MDE123 flexure stage is fitted with piezo actuators providing 25 µm of piezo and 2 mm of manual adjustment in each of the three axes. This system can be controlled either via a simple piezo controller or an Elliot Scientific Device Automated Alignment System (DALi2).

The Elliot Gold™ series XYZ flexure stage is a development of the immensely popular original stage invented and patented† by Martock Design, now a subsidiary of Elliot Scientific. Flexure stages are ideal for high precision device manipulation.

Applications range from fibre launch systems for single-mode, multimode and polarisation maintaining fibres as well as waveguide alignment, through to the manipulation of microstructures in bioscience. The arcuate displacement (vertical displacement due to longitudinal flexure motion) is up to 4 times better than competing products.

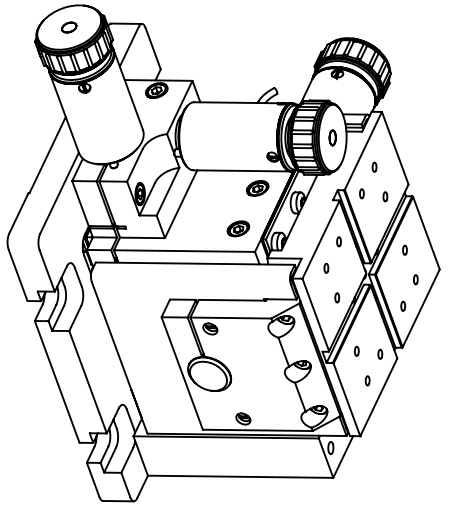
The optical axis height of all accessories is 18 mm above the top plate, placing the optical axis 94 mm above the bottom of the stage.

Specifications

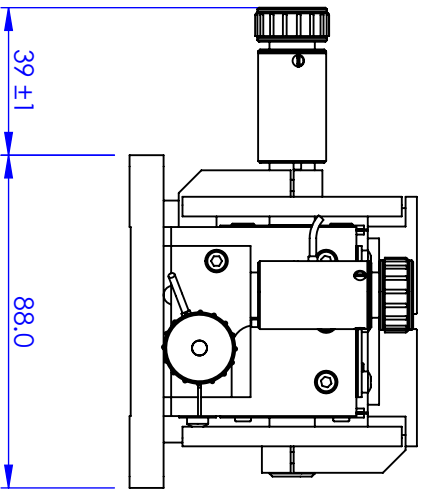
Configuration	Right handed version
Adjuster Type	Three 0 ~ 150 V piezo with manual control (model MDE218), piezo travel 25 µm
Stage travel	2 mm coarse manual travel (on 0.25 pitch thread) in X, Y and Z axes
Resolution	10 nm with piezo control (over 25 µm range)
Load capacity	4.5 kg
Arcuate Displacement	X axis: 20 µm, Y & Z axes: 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Includes Model MDE154 clamp set	
Variants	Left-handed version available

† Patent Nos. GB 2129955B & USA 4635887

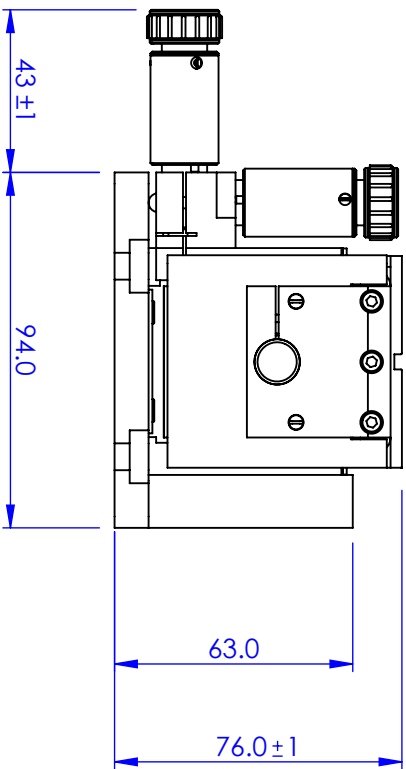
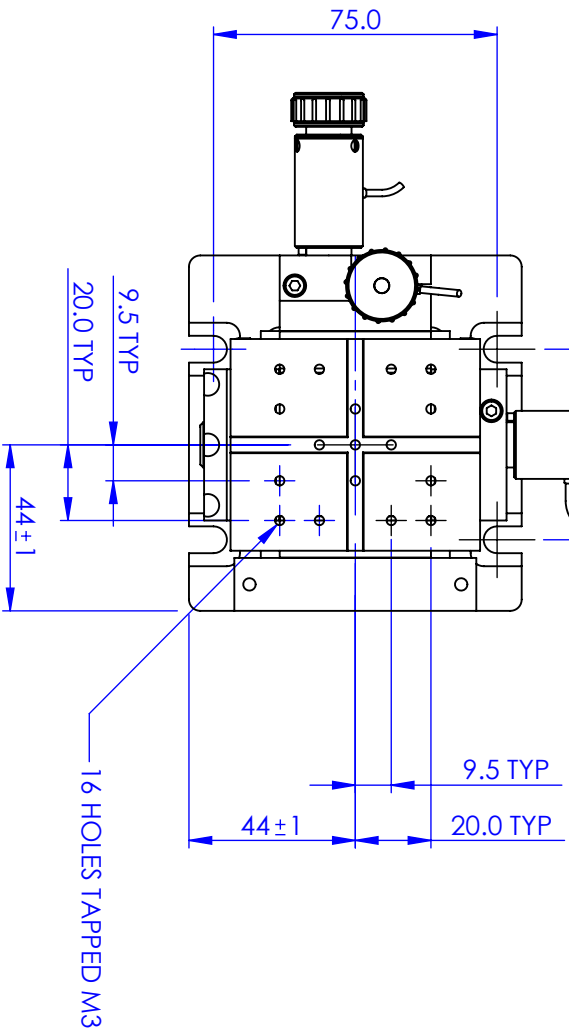
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GENERAL VIEW
SCALE: 1:2



50.4mm FOR METRIC
AND IMPERIAL MOUNTING



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Elliott Scientific

TITLE: **FLEXURE STAGE**

SIZE: **A4** DWG. NO.: **MDE123**

SCALE: 1:2 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages

MDE125 XYZ Flexure Stage with 100 µm Piezo Actuators



- 50 nm resolution
- 100 µm Piezo adjustment travel
- 2 mm coarse travel per axis
- 4.5 kg load capacity
- Minimal arcuate displacement
- Orthogonal alignment grooves
- Ultra-stable patented† design XYZ flexure stage



The MDE125 flexure stage is fitted with piezo actuators providing 100 µm of piezo and 2 mm of manual adjustment in each of the three axes. This system can be controlled either via a simple piezo controller or an Elliot Scientific Device Automated Alignment System (DALi2).

The Elliot Gold™ series XYZ flexure stage is a development of the immensely popular original stage invented and patented† by Martock Design, now a subsidiary of Elliot Scientific. Flexure stages are ideal for high precision device manipulation.

Applications range from fibre launch systems for single-mode, multimode and polarisation maintaining fibres as well as waveguide alignment, through to the manipulation of microstructures in bioscience. The arcuate displacement (vertical displacement due to longitudinal flexure motion) is up to 4 times better than competing products.

The optical axis height of all accessories is 18 mm above the top plate, placing the optical axis 94 mm above the bottom of the stage.

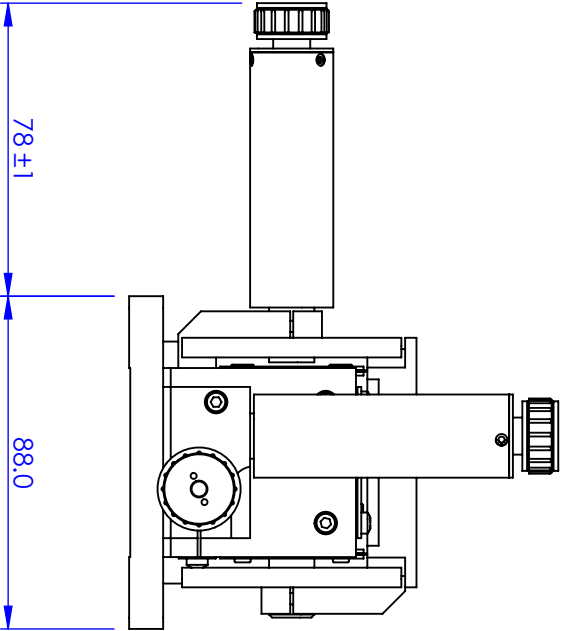
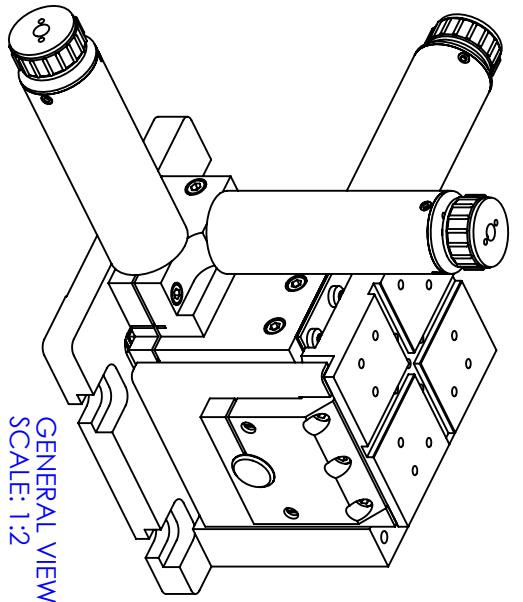
Specifications

Configuration	Right handed version
Adjuster Type	Three 0 ~ 150 V piezo with manual control (model MDE227), piezo travel 100 µm
Stage travel	2 mm coarse manual travel (on 0.25 pitch thread) in X, Y and Z axes
Resolution	50 nm with piezo control (over 100 µm range)
Load capacity	4.5 kg
Arcuate Displacement	X axis: 20 µm, Y & Z axes: 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Includes Model MDE154 clamp set	
Variants	Left-handed version available

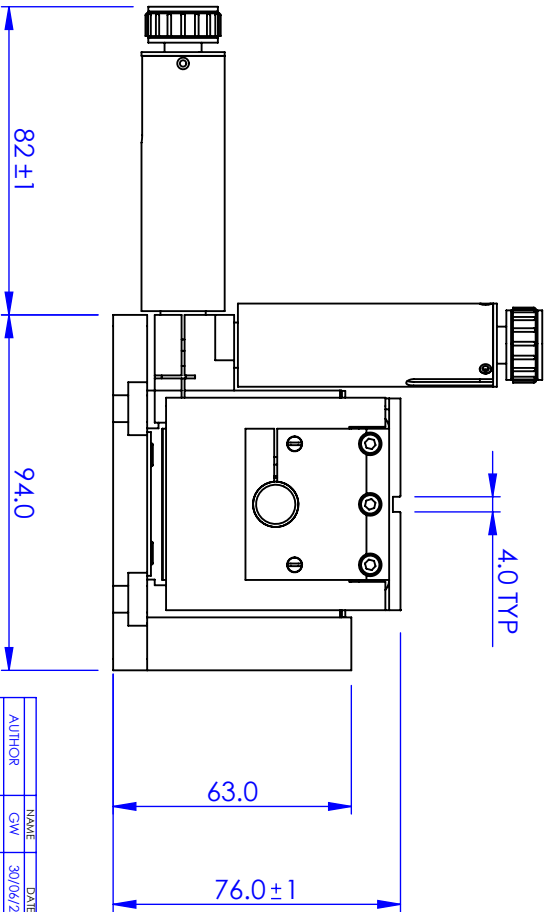
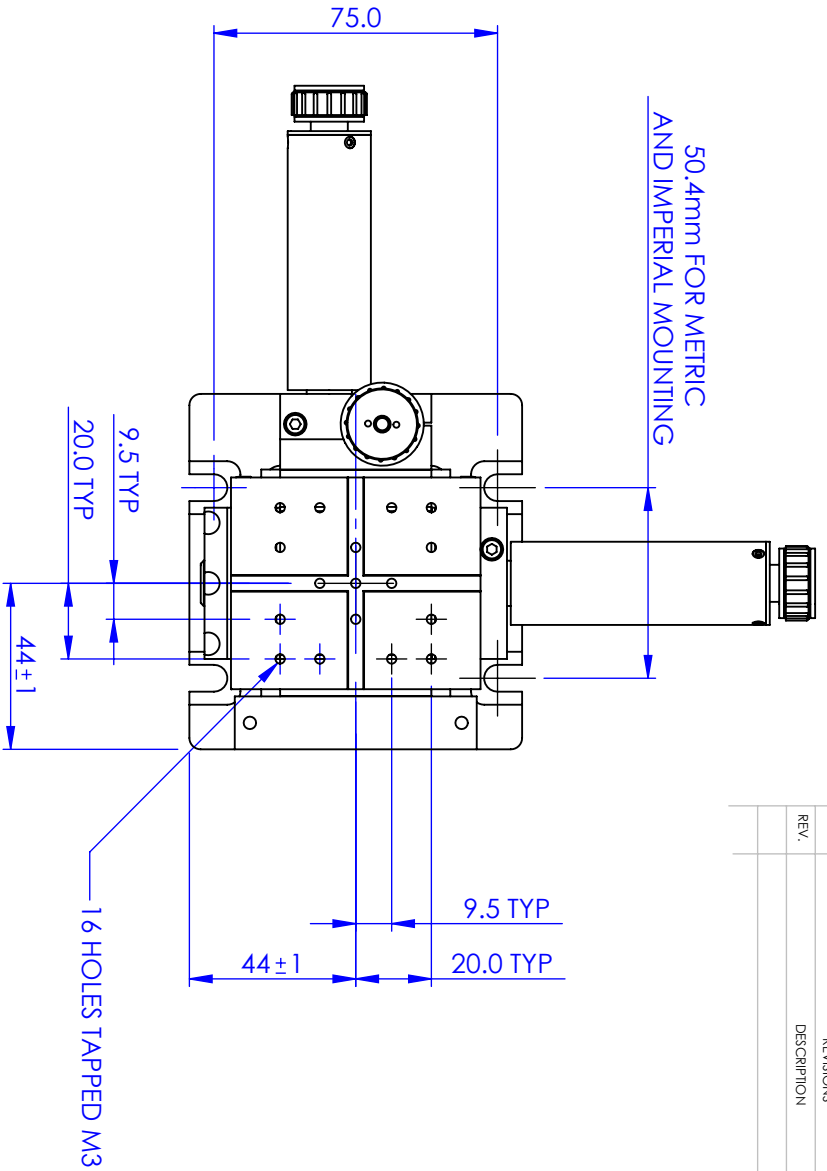
† Patent Nos. GB 2129955B & USA 4635887

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GENERAL VIEW
SCALE: 1:2



50.4mm FOR METRIC
AND IMPERIAL MOUNTING



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MATERIAL		

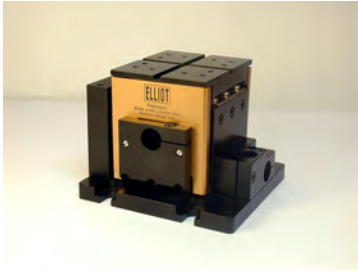
TITLE	
Eliot Scientific	
FLEXURE STAGE	
SIZE	DWG. NO.
A4	MDE125
SCALE: 1:2	
THIRD ANGLE PROJECTION	

DO NOT SCALE DRAWING

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

Elliot Gold™ Series: XYZ Flexure Stages

MDE330 XYZ Flexure Stage without Adjusters



- 2 mm coarse travel per axis
- 4.5 kg load capacity
- Minimal arcuate displacement
- Orthogonal alignment grooves
- Use any combination of Elliot Scientific adjuster types
- Ultra-stable patented† design XYZ flexure stage



The MDE330 flexure stage is supplied without adjusters, thereby permitting the user to choose and fit a different type of adjuster on each axis to match individual performance and cost requirements. For example, 1 manual and 2 piezo adjusters or 2 high-precision and 1 piezo. The MDE330 is compatible with all Elliot Scientific adjusters.

The Elliot Gold™ series XYZ flexure stage is a development of the immensely popular original stage invented and patented† by Martock Design, now a subsidiary of Elliot Scientific. Flexure stages are ideal for high precision device manipulation.

Applications range from fibre launch systems for single-mode, multimode and polarisation maintaining fibres as well as waveguide alignment, through to the manipulation of microstructures in bioscience. The arcuate displacement (vertical displacement due to longitudinal flexure motion) is up to 4 times better than competing products.

The optical axis height of all accessories is 18 mm above the top plate, placing the optical axis 94 mm above the bottom of the stage.

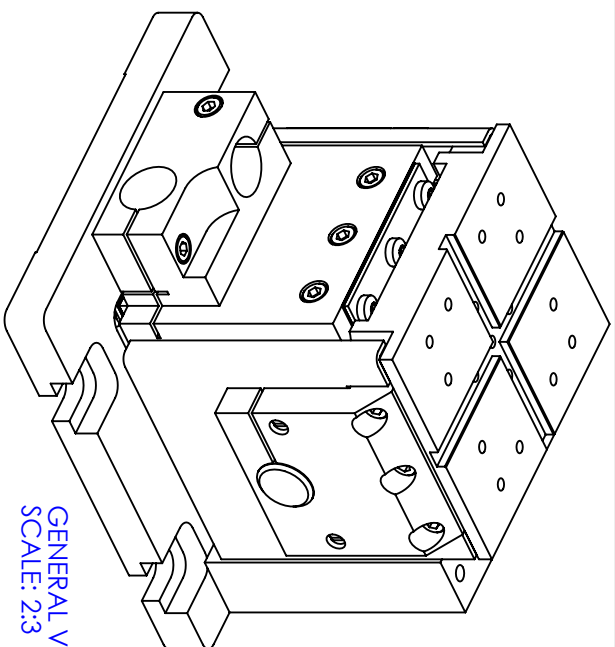
Specifications

Configuration	Right handed version
Adjusters	None fitted
Stage travel	2 mm in X, Y and Z axes
Resolution	Adjuster dependent
Load capacity	4.5 kg
Arcuate Displacement	X axis: 20 µm, Y & Z axes: 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Includes Model MDE154 clamp set	

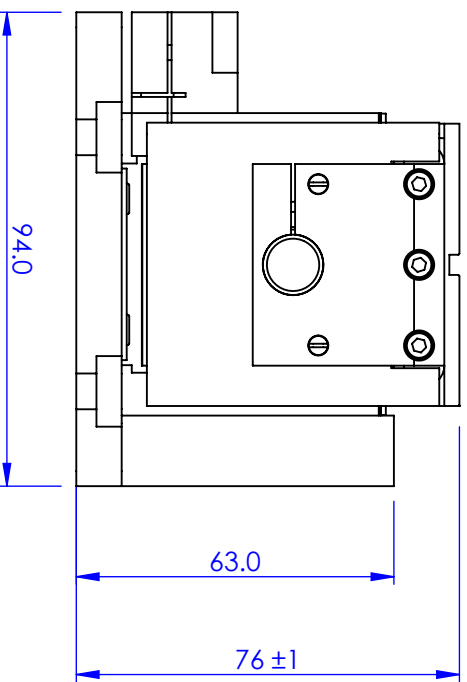
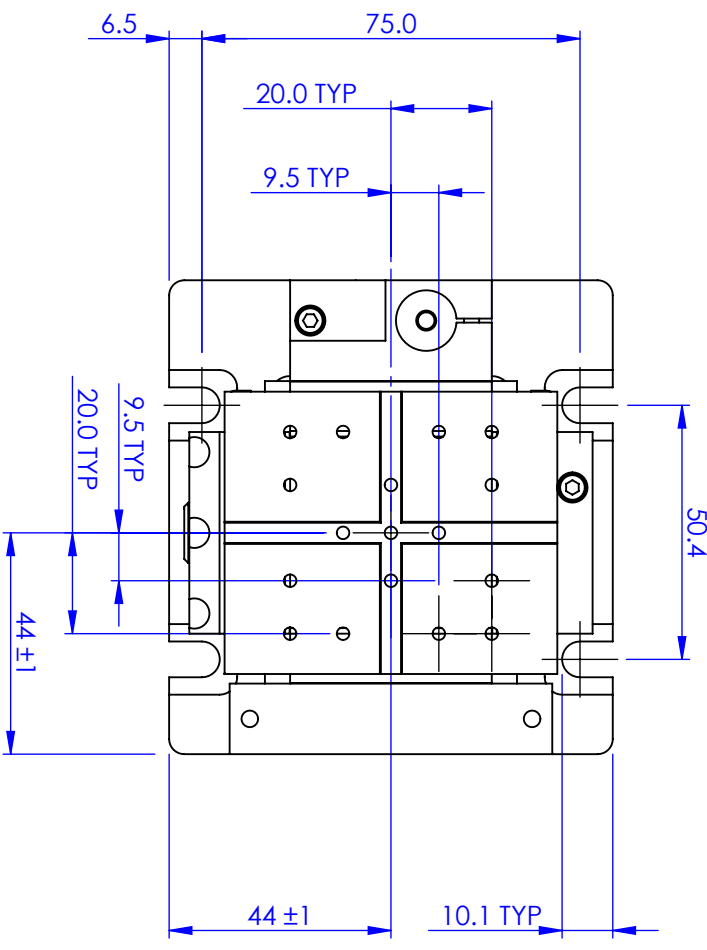
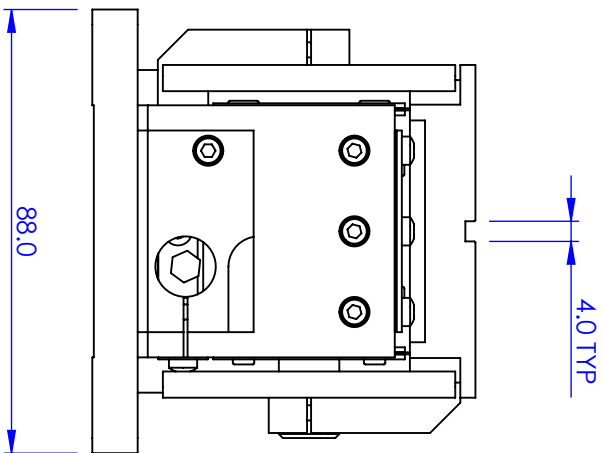
Options and Accessories

Flexure stage accessories - objective mounts, plates, clamps
 Alternative adjusters - simple, high precision, piezo or motorised
 Left-handed version (To special order)
 Pitch and yaw add-on modules
 Fibre launch systems
 Fixed brackets

For the latest price, contact us today.



GENERAL VIEW
SCALE: 2:3



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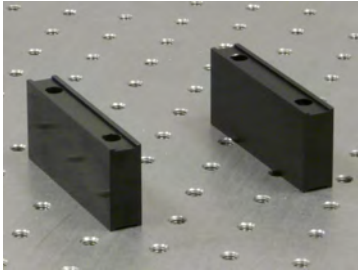
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MATERIAL		
FINISH		

Eliot Scientific	
TITLE	
FLEXURE STAGE (No Adjusters)	
SIZE	DWG. NO.
A4	MDE330
SCALE:2:3	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE141 Riser Block Set



ELLIOT MARTOCK

This riser block set is used in conjunction with XYZ Flexure Stages to raise their optical axis height from 94 mm to 125 mm. This is required when using standard stages opposite the MDE183/MDE185 Pitch and Yaw Stages, or XYZ Flexure Stages mounted on an MDE889-60 Rack & Pinion Slide.

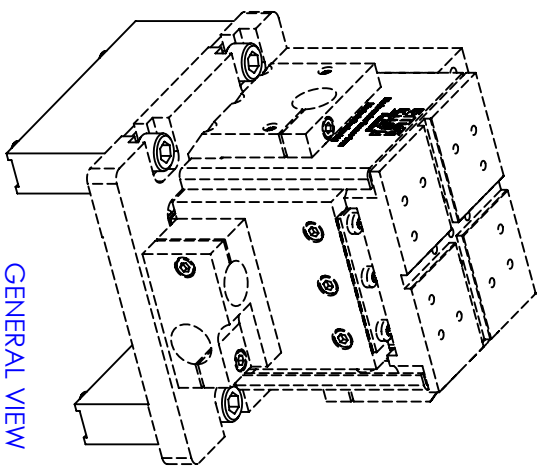
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Options and Accessories

MDE12x series XYZ Flexure Stages
MDE330 XYZ Flexure Stage
MDE183 Pitch & Yaw Stage
MDE185 Pitch & Yaw Stage
MDE889-60 Rack & Pinion Slide

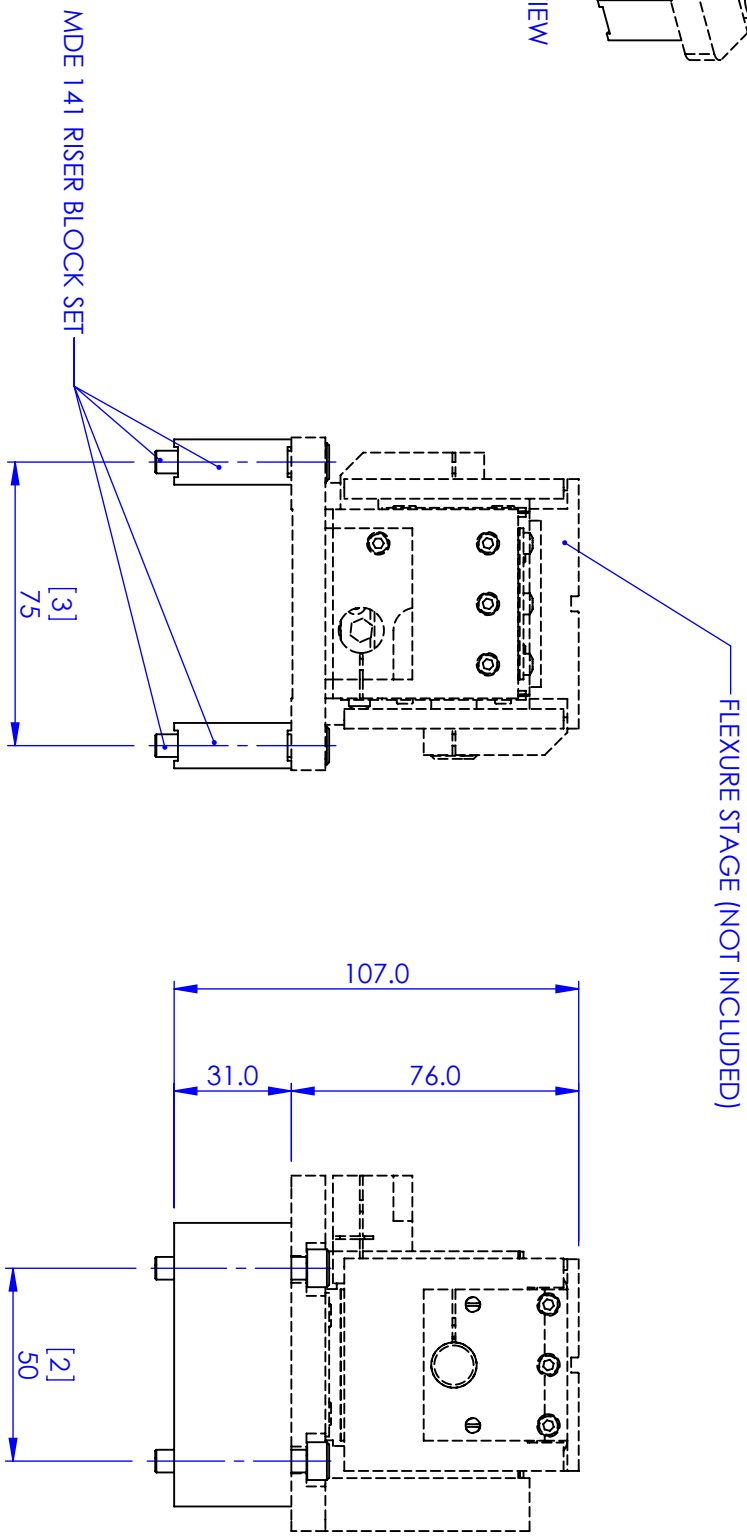
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REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:2

RISER BLOCKS ELEVATE FLEXURE STAGE
TOP PLATE FROM A STANDARD OPTICAL
AXIS HEIGHT OF 94mm TO 125mm (107 + 18)



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AUTHOR	NAME	DATE
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	GW	11/1/02/2005

Elliot Scientific

TITLE
RISER BLOCK SET

SIZE **A4** DWG. NO. **MDE141**

DO NOT SCALE DRAWING SCALE: 1:2 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE147 Large Fixed Bracket with 60 mm Slot

- For X-axis use



ELLIOT MARTOCK

The MDE147 is for mounting accessories along the X-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 60 mm milled along it, a locating groove and threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

Options

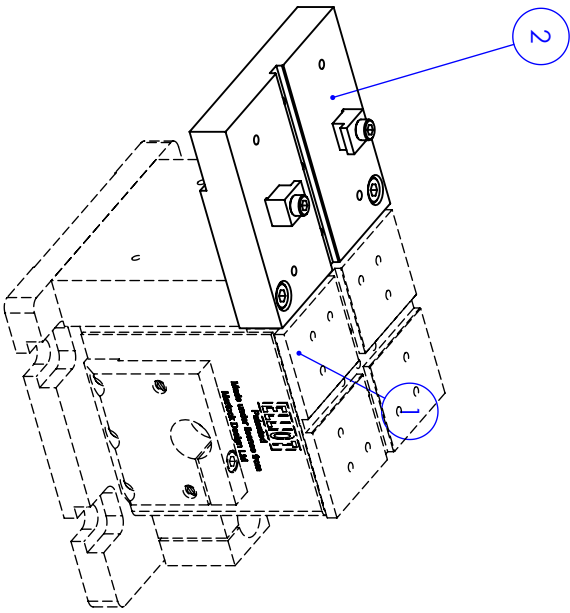
MDE189 Fixed bracket

MDE190 Riser block

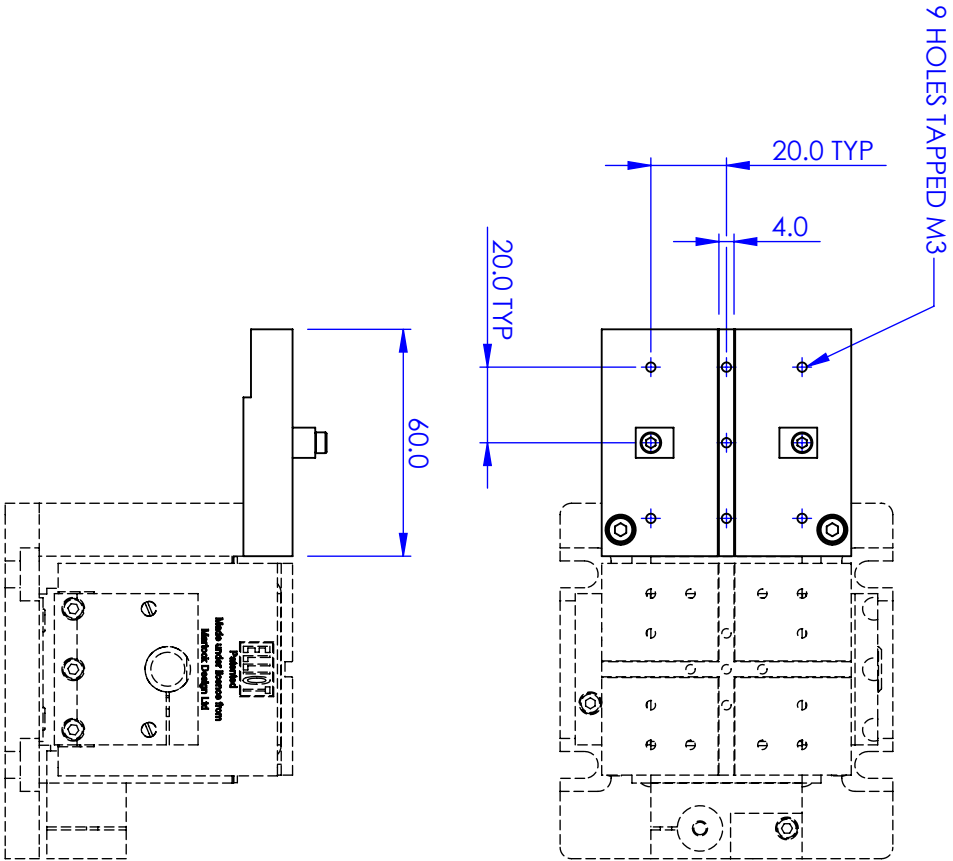
For the latest price, contact us today.

PART NO.	ITEM NO.	QTY	DESCRIPTION
MDE330	1	1	XYZ FLEXURE STAGE
MDE147	2	1	LARGE PLATFORM ASSEMBLY

NB FLEXURE STAGE NOT INCLUDED



GENERAL VIEW
SCALE: 1:2



9 HOLES TAPPED M3

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AUTHOR	NAME	DATE
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Elliot Scientific	
TITLE	LARGE FIXED PLATFORM
SIZE	A4
DWG. NO.	MDE147
SCALE: 1:2	THIRD ANGLE PROJECTION

REV.	DESCRIPTION	DATE	APPROVED

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE148 Small Fixed Bracket with 20 mm Slot

- For X-axis use



ELLIOT MARTOCK

The MDE148 is for mounting accessories along the X-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 20 mm milled along it, a locating groove and threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

Options

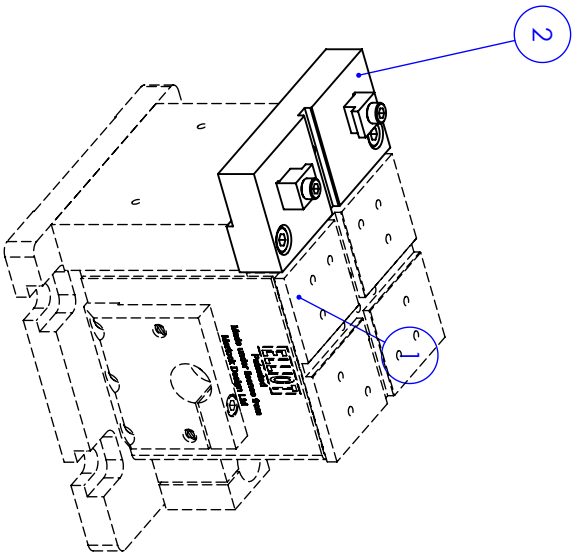
MDE189 Fixed bracket

MDE190 Riser block

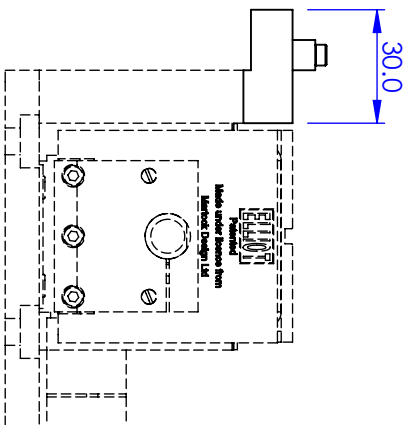
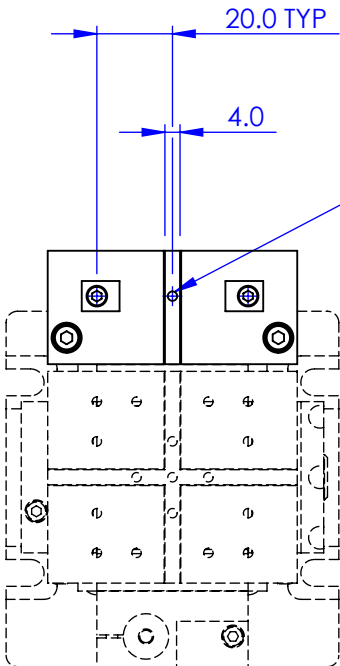
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PART NO.	ITEM NO.	QTY	DESCRIPTION
MDE330	1	1	XYZ FLEXURE STAGE
MDE148	2	1	SMALL PLATFORM ASSEMBLY

NB FLEXURE STAGE NOT INCLUDED



GENERAL VIEW
SCALE: 1:2



3 HOLES TAPPED M3

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Elliot Scientific

TITLE
SMALL FIXED PLATFORM

SIZE
A4

DWG. NO.
MDE148

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SCALE: 1:2

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE149 L-Shaped Bracket with 46 mm Slot

- For Y-axis use



ELLIOT MARTOCK

The MDE149 is for mounting accessories along the Y-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 60 mm milled along it, a locating groove and threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

Options

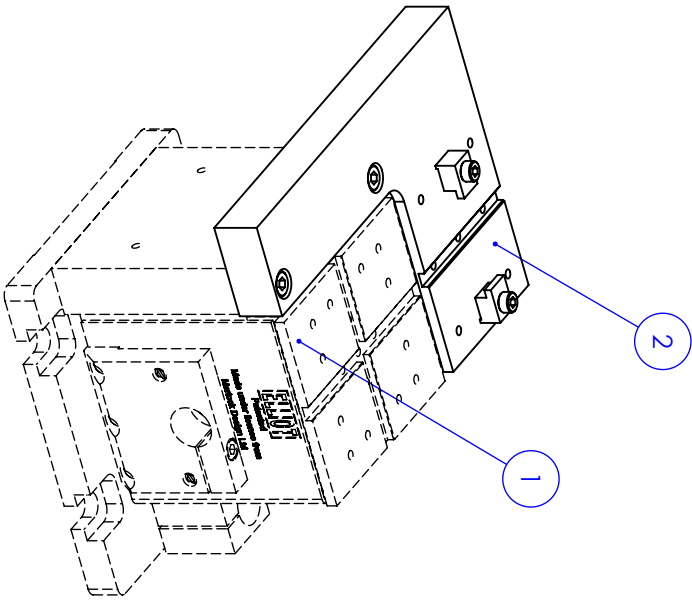
MDE189 Fixed bracket

MDE190 Riser block

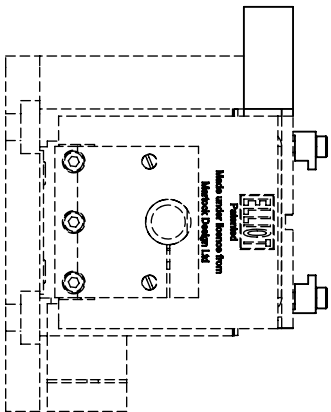
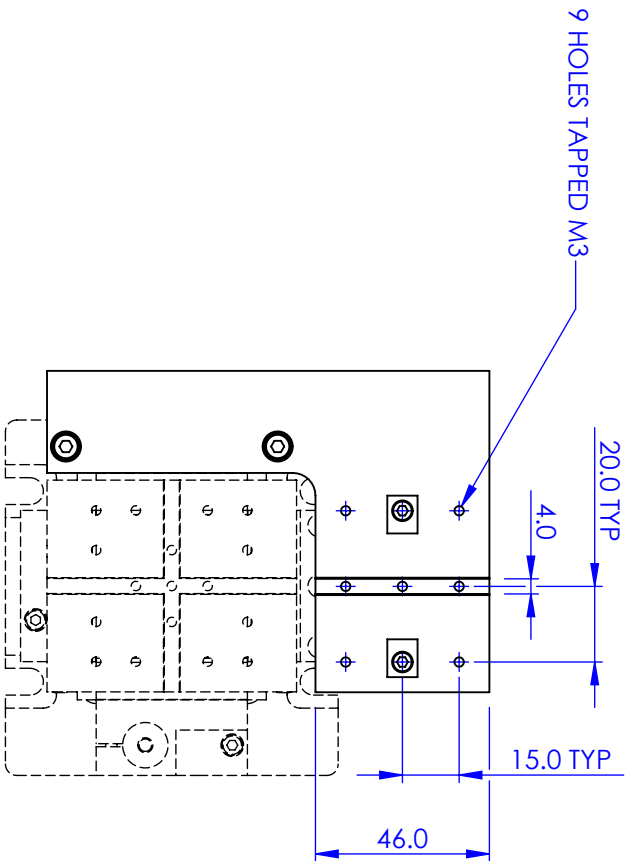
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PART NO.	ITEM NO.	QTY	DESCRIPTION
MDE330	1	1	XYZ FLEXURE STAGE
MDE149	2	1	SIDE PLATFORM ASSEMBLY

NB FLEXURE STAGE NOT INCLUDED



GENERAL VIEW
SCALE: 1:2



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Elliot Scientific

TITLE: **SIDE PLATFORM**
 DWG. NO.: **MDE149**

SIZE: **A4**
 SCALE: 1:2

THIRD ANGLE PROJECTION

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE147E Large Fixed Bracket with Imperial Tapped Holes & 60 mm Slot

- For X-axis use



ELLIOT MARTOCK

The MDE147E is for mounting accessories along the X-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 60 mm milled along it, a locating groove and 6-32 threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

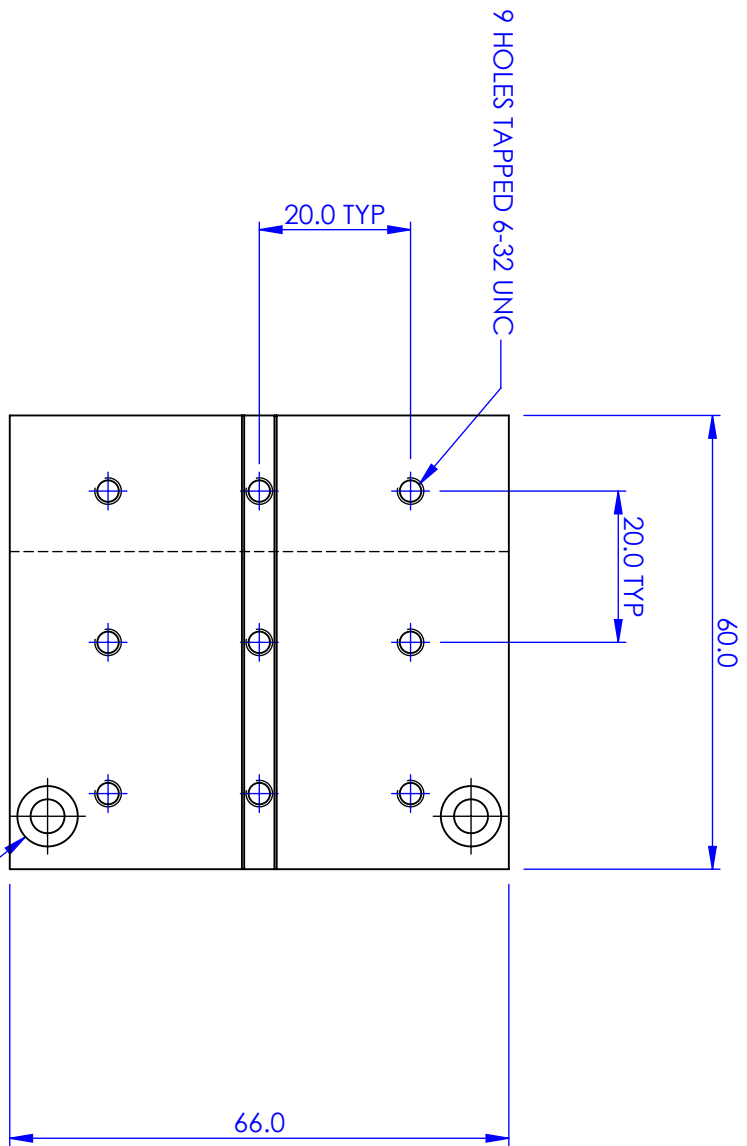
Options

MDE189 Fixed bracket

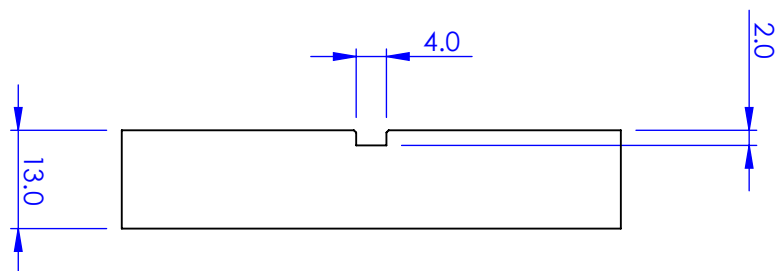
MDE190 Riser block

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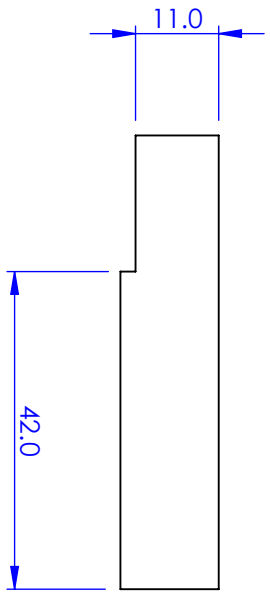
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2 HOLES FOR MOUNTING TO FLEXURE STAGE



PLATFORM SUPPLIED WITH 2 MOUNTING SCREWS, CLAMP SET AND HEX KEY



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AUTHOR	NAME	DATE
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Eliot Scientific

TITLE: **FIXED PLATFORM, LARGE**

FINISH: **ANODISED BLACK**

MATERIAL: **ALUMINIUM ALLOY**

SIZE: **A4** DWG. NO.: **MDE147E**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE148E Small Fixed Bracket with Imperial Tapped Holes & 20 mm Slot

- For X-axis use



The MDE148E is for mounting accessories along the X-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 20 mm milled along it, a locating groove and 6-32 threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

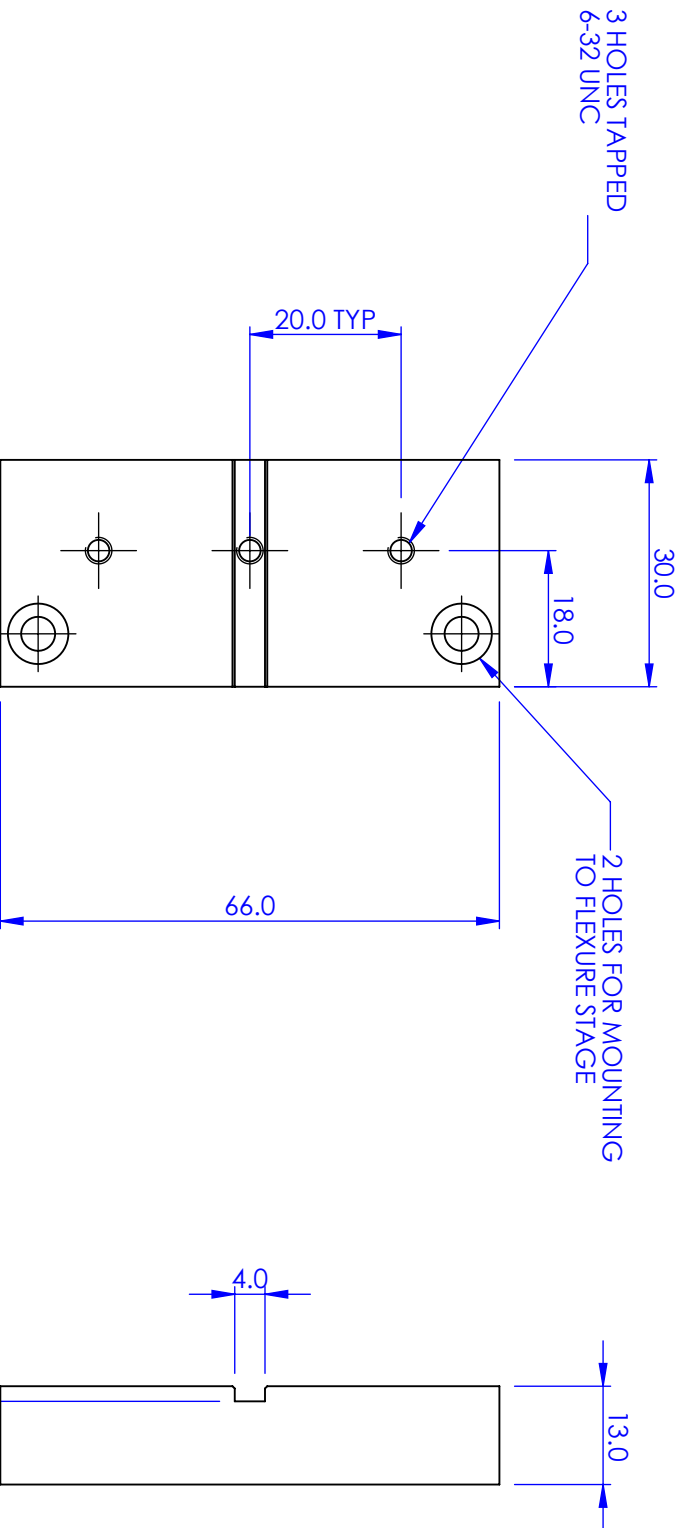
Options

MDE189 Fixed bracket

MDE190 Riser block

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PLATFORM SUPPLIED WITH 2 MOUNTING
SCREWS, CLAMP SET AND HEX KEY

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NAME	DATE
AUTHOR GW	12/07/2010
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MATERIAL ALUM ALLOY		TITLE Eliot Scientific	
FINISH BLACK ANODISED		FIXED PLATFORM, SMALL	
SIZE A4	DWG. NO. MDE148E	THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING		SCALE: 1:1	SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE149E L-Shaped Bracket with Imperial Tapped Holes & 46 mm Slot

- For Y-axis use



The MDE149E is for mounting accessories along the Y-axis of flexure stages. It attaches to front vertical pillar on the stage and provides a rigid mounting surface for other accessories. It has a slot of length 60 mm milled along it, a locating groove and 6-32 threaded mounting holes. The package includes a model MDE154 clamp set.

Fixed brackets are attached to the vertical pillar on flexure stages by using two M4 screws. They provide a convenient rigid surface for mounting standard Elliot or Martock accessories for alignment with items on the moving top plate of the flexure stage.

The fixed platform is often referred to as the "Fixed World", while the flexure stage top plate can be regarded as the "Moving World".

When mounting these brackets, a steel rule is a useful aid to ensure that they are in-line with the optical axis defined by the XYZ stage.

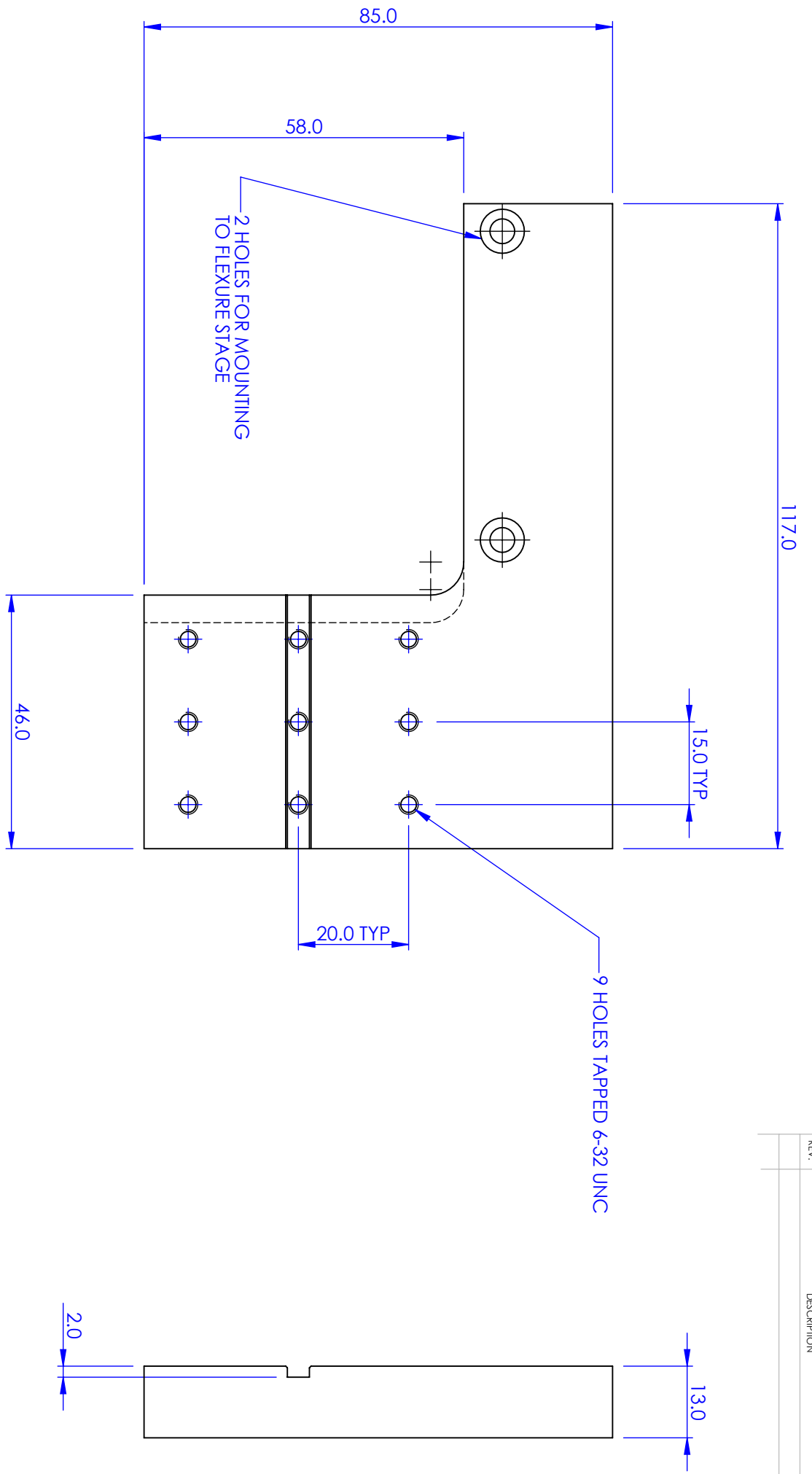
Options

MDE189 Fixed bracket

MDE190 Riser block

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



PLATFORM SUPPLIED WITH 2 MOUNTING
SCREWS, CLAMP SET AND HEX KEY

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AUTHOR GW	12/07/2010
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MATERIAL ALUMINIUM ALLOY		TITLE SIDE PLATFORM	
FINISH ANODISED BLACK		SIZE A4	DWG. NO. MDE149E
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE189 Fixed Bracket



The MDE189 fixed bracket can be used with the MDE147, MDE148 and MDE149 fixed brackets to provide a simple fixed platform for mounting standard devices and fibre holders.

Bolted directly to an optical breadboard, the MDE189 provides an optical height of 94 mm (compatible with the Elliot Gold™ series flexure stages). Add Riser Block MDE190 to raise the axis to 125 mm for use with combinations of stages at 125 mm.

Options

MDE190 Riser block

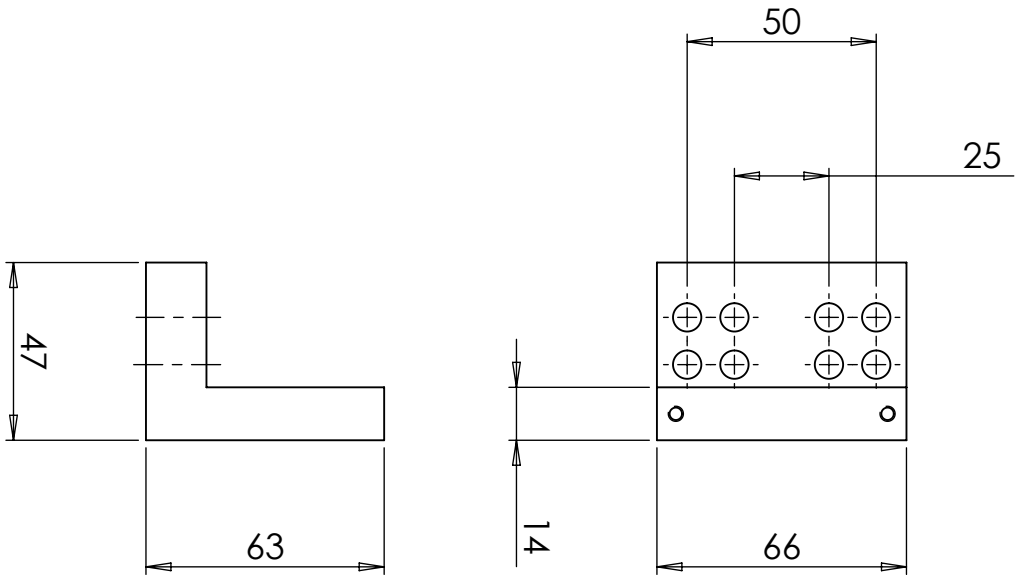
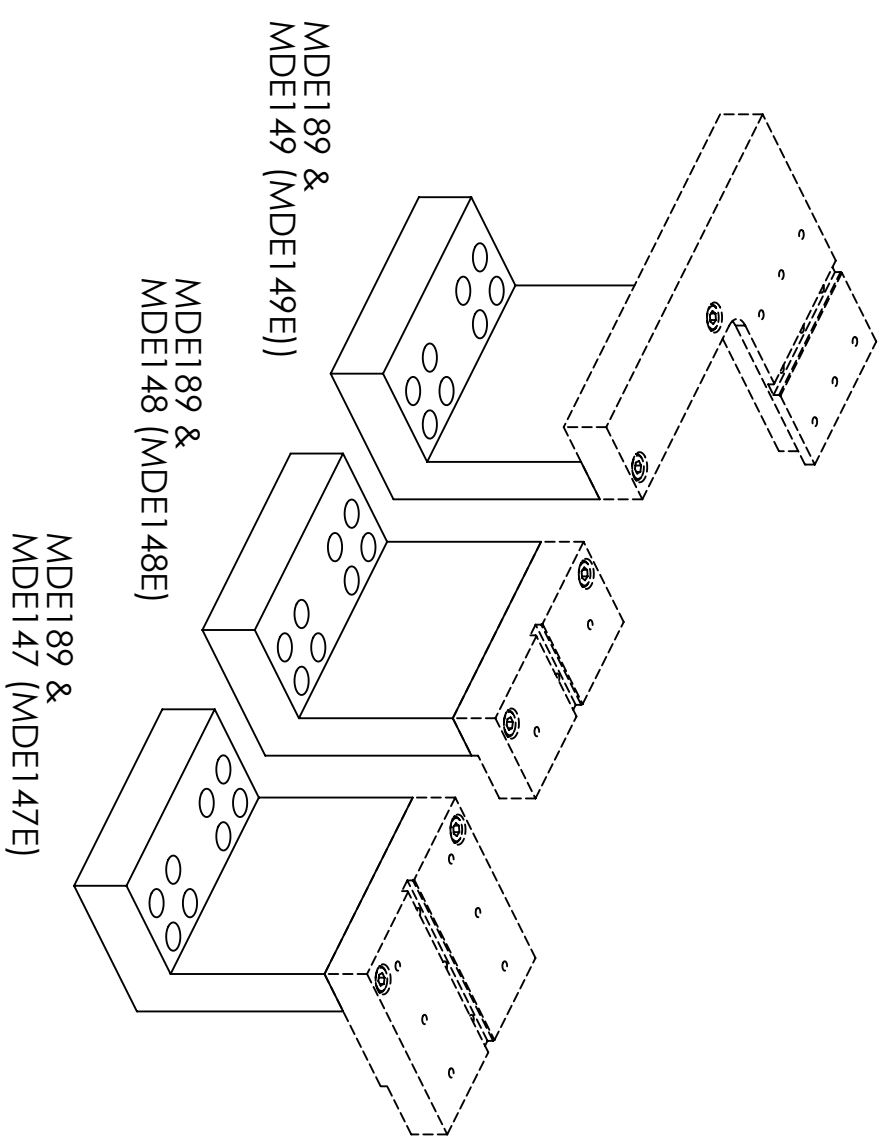
MDE147 Large fixed bracket

MDE148 Small fixed bracket

MDE149 L-shaped bracket

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



MDE189

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NAME	DATE
AUTHOR	12/07/2010
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MATERIAL		TITLE	
ALUM ALLOY		FIXED MOUNTING BRACKET	
FINISH	SIZE	DWG. NO.	
ANODISED BLACK	A4	MDE189	
DO NOT SCALE DRAWING		SCALE: 1:2	THIRD ANGLE PROJECTION
		SHEET 1 OF 1	



Elliot Gold™ Series: XYZ Flexure Stages: Accessories

MDE190 Riser Block



ELLIOT MARTOCK

A riser block is used in conjunction with the MDE189 to raise the optical axis to 125 mm. This is needed when configuring a 5 or 6 axis fibre launch with an MDE183 or MDE185 mounted on the "Moving World".

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Options

MDE147 Large fixed bracket

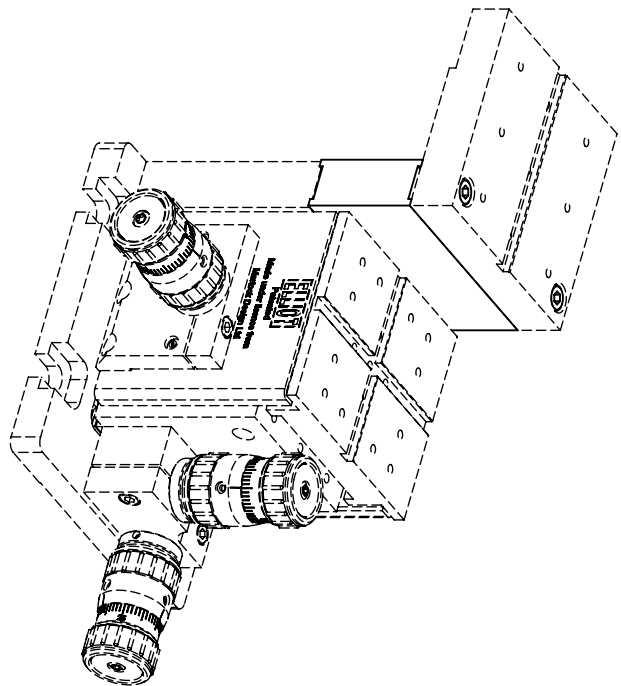
MDE148 Small fixed bracket

MDE149 L-shaped bracket

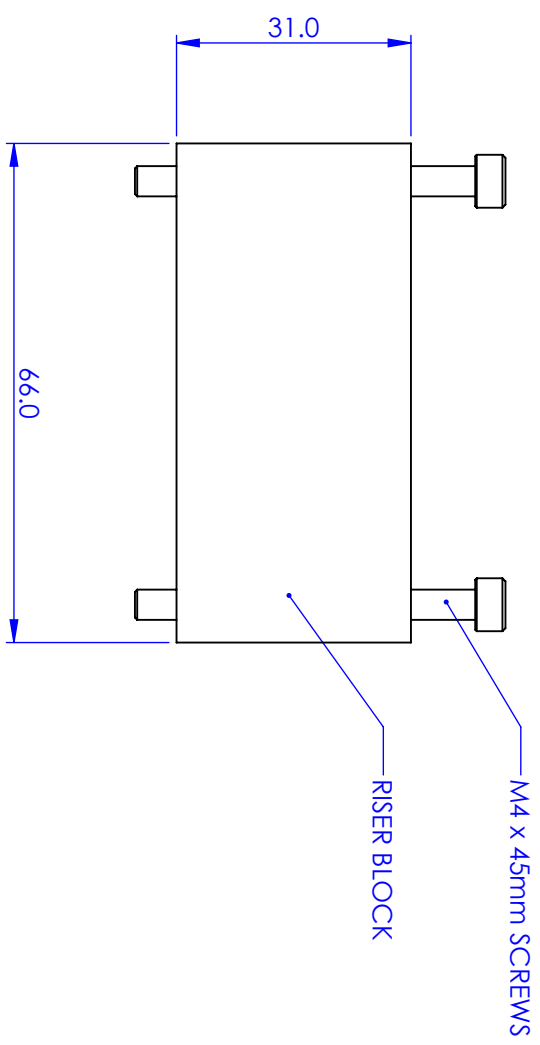
MDE189 Fixed bracket

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APPLICATION EXAMPLE



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AUTHOR	NAME	DATE
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MATERIAL		
FINISH		

Eliot Scientific

TITLE
RISER BLOCK ASSEMBLY

SIZE **A4** DWG. NO. **MDE190**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: XYZ Flexure Stages: Piezo Systems

MDE623 3-Channel Piezo Controller with MDE123 XYZ Flexure Stage



- RS-232 interface
- Channels: 3 independent
- Output voltage: 0 ~ 150 V
- Output current: 60 mA/channel
- Output noise: 1.5 mVRMS
- LED digital readout on each channel
- Internal/external voltage control
- Ext. input voltage control 0 ~ 10 V
- Output stability: <0.01% over 5 hours
- Power requirements: 115/230 Vac 50 ~ 60 Hz

Complete system comprising the MDT693 3-channel controller together with the MDE123 Elliot Gold™ series XYZ flexure stage fitted with piezo actuators providing 25 µm of piezo travel with 10 nm resolution in each of the three axes.

Specifications

Please refer to the individual data sheets for full specifications:

Flexure Stage	MDE123
Piezo Adjusters	MDE218
Piezo Controller	MDT693

Includes Model MDE154 clamp set

† Patent Nos. GB 2129955B & USA 4635887

For the latest price, contact us today.

Elliot Gold™ Series: XYZ Flexure Stages: Piezo Systems

MDE625 3-Channel Piezo Controller with MDE125 XYZ Flexure Stage



ELLIOT MARTOCK

- RS-232 interface
- Channels: 3 independent
- Output voltage: 0 ~ 150 V
- Output current: 60 mA/channel
- Output noise: 1.5 mVRMS
- LED digital readout on each channel
- Internal/external voltage control
- Ext. input voltage control 0 ~ 10 V
- Output stability: <0.01% over 5 hours
- Power requirements: 115/230 Vac 50 ~ 60 Hz

Complete system comprising the MDT693 3-channel controller together with the MDE125 Elliot Gold™ series XYZ flexure stage fitted with piezo actuators providing 25 µm of piezo travel with 10 nm resolution in each of the three axes.

Specifications

Please refer to the individual data sheets for full specifications:

Flexure Stage	MDE125
Piezo Adjusters	MDE218
Piezo Controller	MDT693

Includes Model MDE154 clamp set

† Patent Nos. GB 2129955B & USA 4635887

For the latest price, contact us today.

Fibre Launch Systems





Elliot Gold™ Series: Fibre Launch Solutions

MDE510 Fibre Launch System with High-Precision Adjusters



ELLIOT MARTOCK

- 20 nm resolution with patented† high resolution adjusters
- Ultra-stable patented†† design XYZ flexure stage
- Suitable for singlemode fibre (125/250 µm cladding/jacket)
- Orthogonal alignment grooves
- 2 mm travel per axis
- 4.5 kg load capacity

Elliot Gold™ series fibre launch system comprising: 3-axis high-precision manual flexure stage with adjustable force fibre holder, objective lens mount with RMS thread, and small fixed bracket. Suitable for launching free space light beams into singlemode fibre.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

System Constituents:

MDE710 Adjustable force fibre holder
 MDE330 Elliot Gold™ series XYZ High Precision Flexure Stage
 MDE216 High precision manual adjusters (x3)
 MDE154 Clamp Set
 MDE150 Objective mount (RMS thread)
 MDE148 Small fixed bracket

Specifications

Configuration	Right handed version
Fibre holder (Standard)	Double V-groove & clamp arms for 125/250 µm cladding/jacket fibre. Spring-loaded clamp arm force adjusts from 25 to 125 g
Fibre holder (Variants)	FC mount: Specify MDE510FC SMA mount: Specify MDE510SMA
Adjuster Type	Three high precision adjusters (Model MDE216) utilising a patented† lever system with rotary fine and coarse control
Stage travel	2 mm in X, Y and Z axes
Resolution	20 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis 20 µm, Y and Z axes 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Objective mount	Removable stainless steel sleeve with RMS thread (0.800"-36). Allows on-axis adjustment and exchange of objectives or suitably mounted aspheric or ball lenses

Options

Left-handed version (to special order)
 Custom sized V-grooves

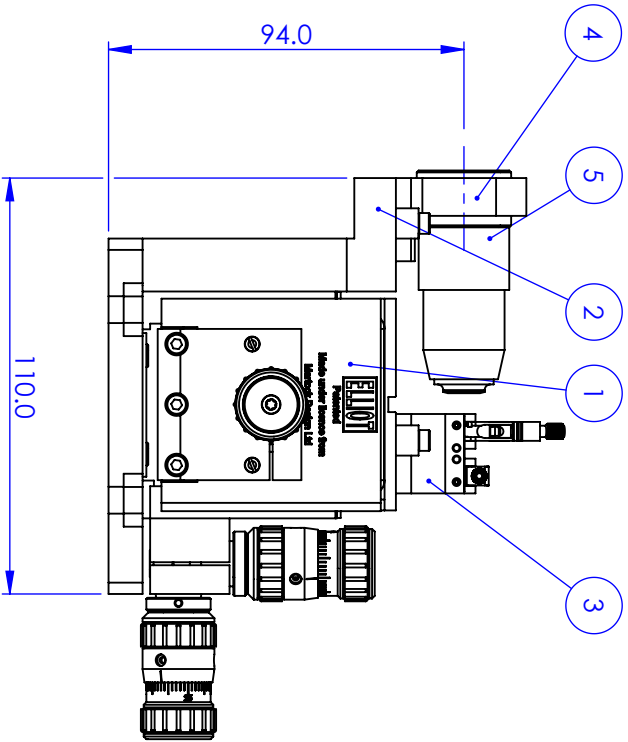
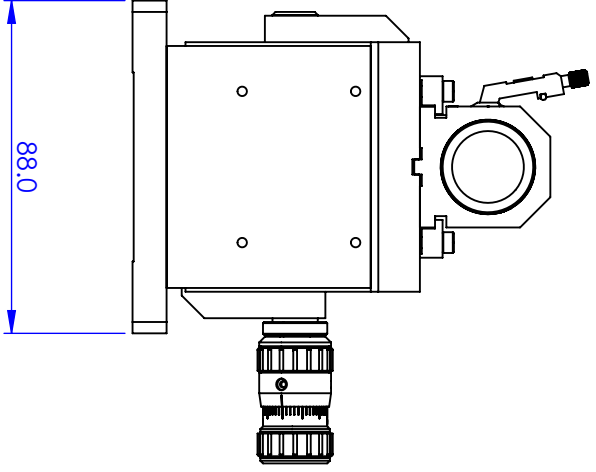
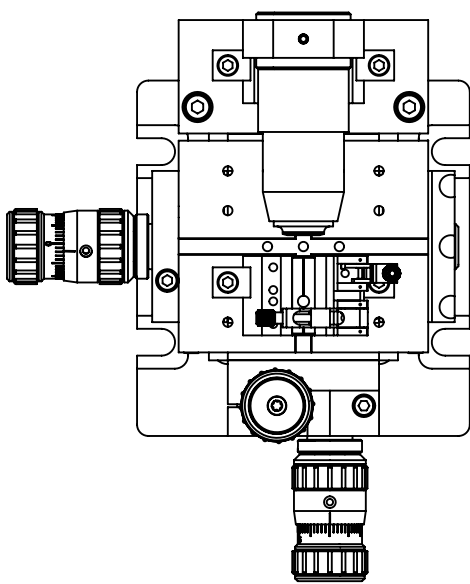
† Patent Nos. GB 2152616B & USA 4617833

†† Patent Nos. GB 2129955B & USA 4635887

PART NO.	ITEM NO.	QTY.	DESCRIPTION
MDE122	1	1	XYZ STAGE WITH MDE216 ADJUSTERS
MDE148	2	1	SMALL PLATFORM ASSEMBLY
MDE150	4	1	OBJECTIVE MOUNT
MDE173*	5	1	ES OBJECTIVE
MDE710	3	1	FIBRE HOLDER

* MDE173 not included in MDE510

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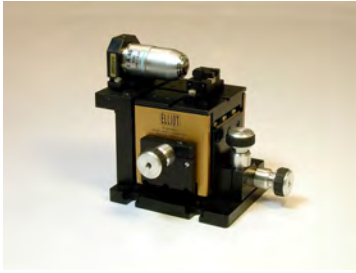
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AUTHOR	NAME	DATE
CHECKED		09/09/2010

Eliot Scientific	
TITLE FIBRE LAUNCH SYSTEM	
SIZE A4	DWG. NO. MDE510
SCALE: 1:2	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	SHEET 1 OF 1

Elliot Gold™ Series: Fibre Launch Solutions

MDE511 Fibre Launch System with Simple Adjusters



- Suitable for multimode fibre (125 µm)
- Orthogonal alignment grooves
- 200 nm resolution with 2 mm travel per axis
- 4.5 kg load capacity
- Ultra-stable patented† design XYZ flexure stage

ELLIOT MARTOCK

Elliot Gold™ series fibre launch system comprising: 3-axis simple manual flexure stage with basic fibre holder, objective lens mount with RMS thread, and small fixed bracket. Suitable for launching free space light beams into multimode fibre.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

System Constituents:

MDE711 Fibre holder

MDE330 Elliot Gold™ series XYZ High Precision Flexure Stage

MDE217 Manual adjusters 0.25 pitch (x3)

MDE154 Clamp Set

MDE150 Objective mount (RMS thread)

MDE148 Small fixed bracket

Specifications

Configuration	Right handed version
Fibre holder	Single V-groove to suit 125 µm fibre with magnetic clamping arm.
Adjuster Type	Three imple manual adjusters, 0.25 pitch (Model MDE217)
Stage travel	2 mm in X, Y and Z axes
Resolution	200 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis 20 µm, Y and Z axes 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Objective mount	Removable stainless steel sleeve with RMS thread (0.800"-36). Allows on-axis adjustment and exchange of objectives or suitably mounted aspheric or ball lenses

Options

Left-handed version (to special order)

Custom sized V-grooves

† Patent Nos. GB 2129955B & USA 4635887

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Elliot Gold™ Series: Fibre Launch Solutions

MDE520 High-Precision Polarisation Maintaining Fibre Launch System



ELLIOT MARTOCK

- 5 arc seconds rotational resolution
- Orthogonal alignment grooves
- 2 mm travel per axis
- Suitable for PM fibre (125/250 µm cladding/jacket)
- Ultra-stable patented† design XYZ flexure stage
- 20 nm linear resolution with patented†† high resolution
- adjusters

Elliot Gold™ series polarisation maintaining (PM) fibre launch system comprising: 3-axis high precision flexure stage with high precision fibre rotator, objective lens mount with RMS thread, and large fixed bracket. Suitable for launching free space light beams into PM fibre.

PM fibre requires that the roll axis be adjusted to ensure correct alignment of the laser polarisation and fibre polarisation axes.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

System Constituents:

MDE717 High precision fibre rotator

MDE330 Elliot Gold™ series XYZ High Precision Flexure Stage

MDE216 High precision manual adjusters (x3)

MDE154 Clamp Set x 2

MDE150 Objective mount (RMS thread)

MDE147 Large fixed bracket

Specifications

Configuration	Right handed version
Fibre holder	Double V-groove & clamp arms for 125/250 µm cladding/jacket fibre. Spring-loaded clamp arm force adjusts from 25 to 125g
Fibre rotation	Full 360° rotation Engraved scale ± 90° Vernier reads to 30 arc minutes Fine adjustment screw with 5 arc seconds resolution Range ± 5° V-block preset on axis with < 1 µm concentricity error V-block can be re-centred by user
Adjuster Type	Three high precision adjusters (Model MDE216) utilising a patented†† lever system with rotary fine and coarse control
Resolution	20 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis 20 µm, Y and Z axes 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Objective mount	Removable stainless steel sleeve with RMS thread (0.800"-36). Allows on-axis adjustment and exchange of objectives or suitably mounted aspheric or ball lenses

Options

Left-handed version (to special order)

Custom sized V-grooves



MDE521 Standard Polarisation Maintaining Fibre Launch System



- ~ 0.1 degrees rotational resolution
- Suitable for PM fibre (125 µm)
- Orthogonal alignment grooves
- 200 nm resolution
- 2 mm travel per axis
- 4.5 kg load capacity
- Ultra-stable patented† design XYZ flexure stage



Elliot Gold™ series polarisation maintaining (PM) fibre launch system comprising: 3-axis simple manual flexure stage with standard fibre rotator, objective lens mount with RMS thread, and small fixed bracket.

PM fibre requires that the roll axis be adjusted to ensure correct alignment of the laser polarisation and fibre polarisation axes.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

System Constituents:

MDE718 Fibre rotator

MDE330 Elliot Gold™ series XYZ High Precision Flexure Stage

MDE217 Manual adjusters 0.25 pitch (x3)

MDE154 Clamp Set

MDE150 Objective mount (RMS thread)

MDE148 Small fixed bracket

Specifications

Configuration	Right handed version
Fibre holder	V-groove & single clamp arm for 125 µm fibre. Spring-loaded clamp arm force adjusts from 25 to 125 g
Fibre rotation	Full 360° rotation. Resolution approx 0.1 degrees
Adjuster Type	Three simple manual adjuster, 0.25 pitch (Model MDE217)
Stage travel	2 mm in X, Y and Z axes
Resolution	200 nm
Load capacity	4.5 kg
Arcuate Displacement	X axis 20 µm, Y and Z axes 14 µm (at maximum range of travel)
Optical axis	94 mm above the bottom of the stage
Objective mount	Removable stainless steel sleeve with RMS thread (0.800"-36). Allows on-axis adjustment and exchange of objectives or suitably mounted aspheric or ball lenses

Options

Left-handed version (to special order)

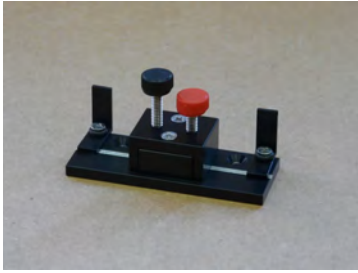
Custom sized V-grooves

† Patent Nos. GB 2129955B & USA 4635887



Elliot Gold™ Series: Fibre Launch Solutions: Accessory

ETB100 Fibre to Fibre Alignment Block



- Can be used with index matching gel to minimise coupling loss
- Quick and easy mechanical coupling of two bare fibres without splicing
- Simple and economical design



Designed to allow two bare fibres to be coupled quickly and easily without the need for splicing in applications such as OTDR testing.

For the latest price, contact us today.



Elliot Gold™ Series: 2 & 3-axis Rotation Modules

MDE183 Pitch and Yaw Stage with Simple Adjusters



ELLIOT MARTOCK

- Pitch and yaw adjustment about a single point in space
- $\pm 3^\circ$ range in pitch (θ_Y), $\pm 5^\circ$ range in yaw (θ_Z):
Resolution 2.0 arc secs
- Rotation in a true arc - no cross-talk
- Excellent long-term stability
- Swing-out pointer identifies the centre of rotation
- Fits Elliot Gold™ Series XYZ flexure stage to provide 5 & 6 axis operation
- Right or left-handed configuration available
- Add optional fibre or fibre array rotation holders to provide roll axis adjustment
- Standard fibre holders fit top plate

The MDE183 and MDE185 Rotation Stages add pitch and yaw adjustments to the Elliot Gold™ Series XYZ flexure stages. Applicable to a wide range of fibre and device alignment tasks requiring the ultimate in flexibility and precision control.

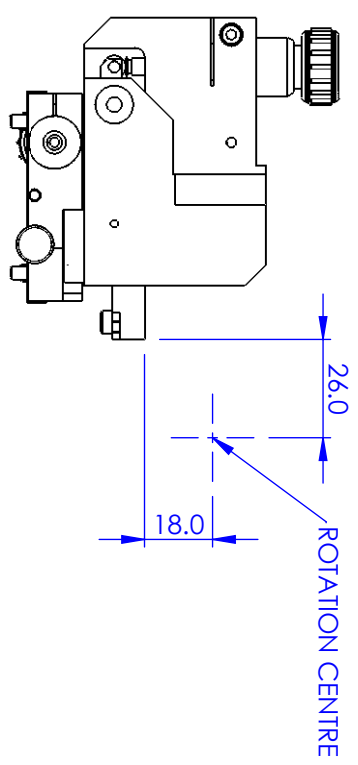
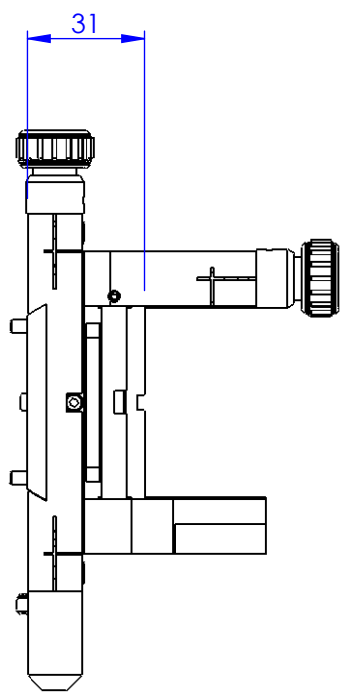
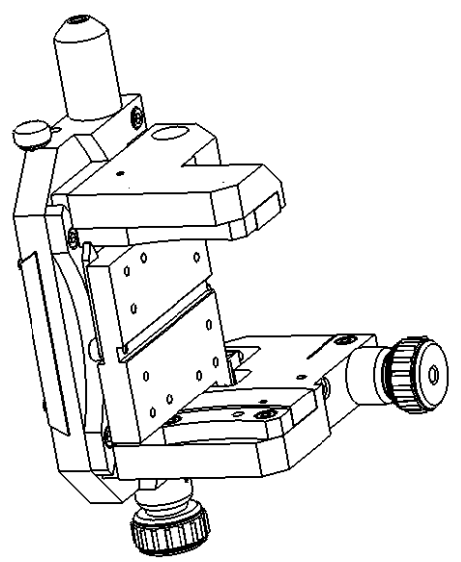
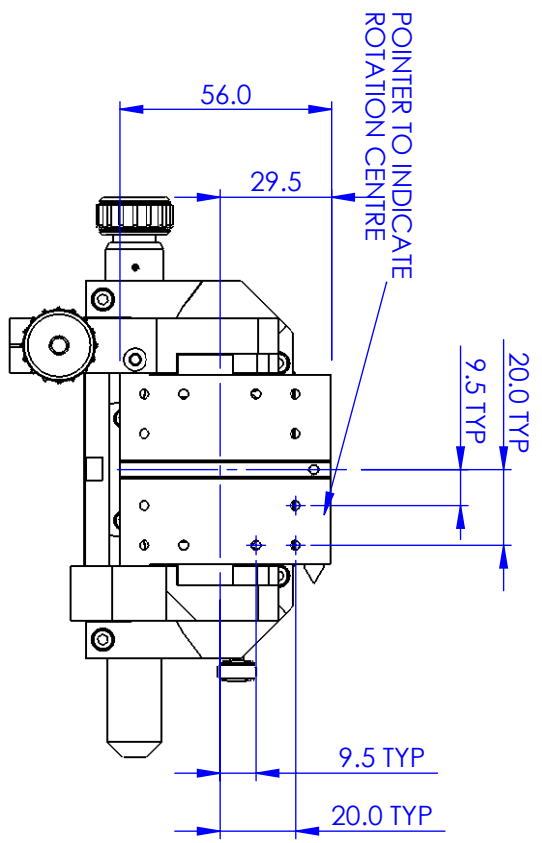
The MDE183 pitch and yaw module provides a $\pm 3^\circ$ range in pitch and a $\pm 5^\circ$ range in yaw, with a resolution of 2.0 arc secs. The module has a locating slot to accept Elliot/Martock standard top plate accessories such as fibre holders allowing bare fibre, ribbon cable and connectorised fibre to be used with the rotation module. A locating tongue on the base interfaces with the top plate of the flexure stages. When fitted with a fibre rotator and attached to a stage, the module allows 6-axis manipulation of a fibre about a single point in space. A swing-out pointer identifies the rotation centre for ease of use.

The MDE183 and MDE185 can be used with various top plate accessories from the Elliot/Martock range. These stages can also be mounted on riser blocks for 94 mm or 125 mm optical axis height. The MDE190 riser block is used to extend the axis height of an MDE147 or MDE148 bracket to 125 mm for 5 or 6 axis fibre launch applications.

All accessories are compatible with the flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and all accessories requiring attachment in this format are supplied with a clamp set.

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AUTHOR	NAME	DATE
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MATERIAL		
FINISH		

Elliott Scientific	
TITLE	
2 AXIS PITCH YAW MODULE	
SIZE	DWG. NO.
A4	MDE183
SCALE: 1:2	THIRD ANGLE PROJECTION
SHEET 1 OF 2	

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Elliot Gold™ Series: 2 & 3-axis Rotation Modules

MDE185 Pitch and Yaw Stage with High Precision Adjusters



ELLIOT MARTOCK

- Pitch and yaw adjustment about a single point in space
- $\pm 3^\circ$ range in pitch (θY)
- $\pm 5^\circ$ range in yaw (θZ)
- Resolution < 0.1 arc secs
- Rotation in a true arc - no cross-talk
- Excellent long-term stability
- Swing-out pointer identifies the centre of rotation
- Fits Elliot Gold™ Series XYZ flexure stage to provide 5 & 6 axis operation
- Right or left-handed configuration available
- Add optional fibre or fibre array rotation holders to provide roll axis adjustment

The MDE183 and MDE185 Rotation Stages add pitch and yaw adjustments to the Elliot Gold™ Series XYZ flexure stages. Applicable to a wide range of fibre and device alignment tasks requiring the ultimate in flexibility and precision control.

The MDE185 pitch and yaw module provides a $\pm 3^\circ$ range in pitch and a $\pm 5^\circ$ range in yaw, with a resolution of < 0.1 arc secs. The module has a locating slot to accept Elliot/Martock standard top plate accessories such as fibre holders allowing bare fibre, ribbon cable and connectorised fibre to be used with the rotation module. A locating tongue on the base interfaces with the top plate of the flexure stages. When fitted with a fibre rotator and attached to a stage, the module allows 6-axis manipulation of a fibre about a single point in space. A swing-out pointer identifies the rotation centre for ease of use.

The MDE183 and MDE185 can be used with various top plate accessories from the Elliot/Martock range. These stages can also be mounted on riser blocks for 94 mm or 125 mm optical axis height. The MDE190 riser block is used to extend the axis height of an MDE147 or MDE148 bracket to 125 mm for 5 or 6 axis fibre launch applications.

Specifications

Configuration	Right handed version
Adjuster Type	2x High precision adjusters (Model MDE216)
Range	
θZ (yaw)	Coarse adjustment: $\pm 5^\circ$, Fine adjustment: $\pm 0.1^\circ$
θY (pitch)	Coarse adjustment: 3° , Fine adjustment $\pm 0.1^\circ$
Resolution	
θZ (yaw)	Coarse adjustment: 5.5 arc seconds, Fine adjustment: < 0.1 arc seconds
θY (pitch)	Coarse adjustment: 5.5 arc seconds, Fine adjustment < 0.1 arc seconds
Optical axis	125 mm above the bottom of an Elliot Gold™ Series XYZ flexure stage
Cross-talk	No cross-talk - Rotation in a true arc

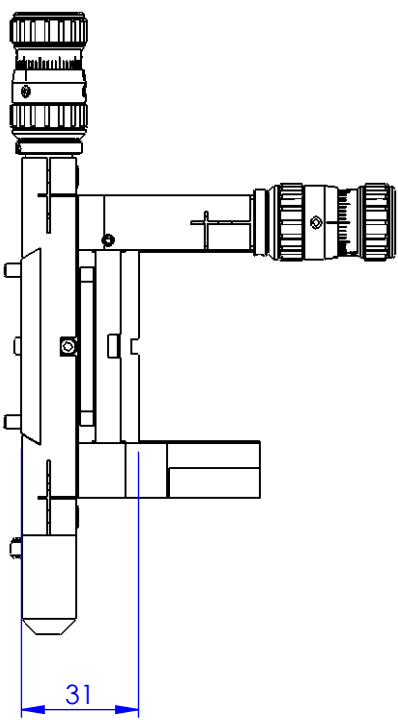
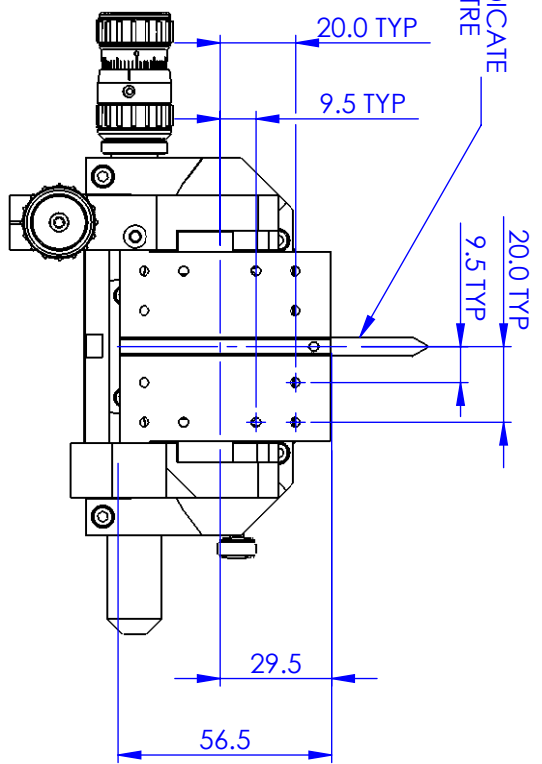
Options

Alternative adjusters (simple, high precision, motorised)
 Left-handed version (to special order)
 Fibre holders
 Fibre rotators
 Fibre array rotator (MDE884LH)
 Includes Model MDE154 clamp set

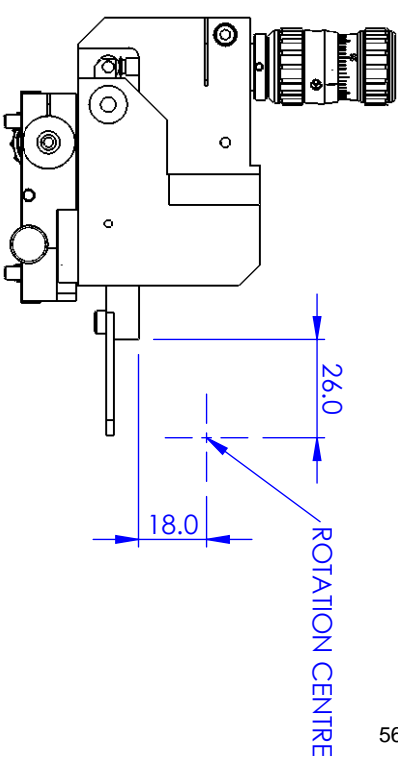
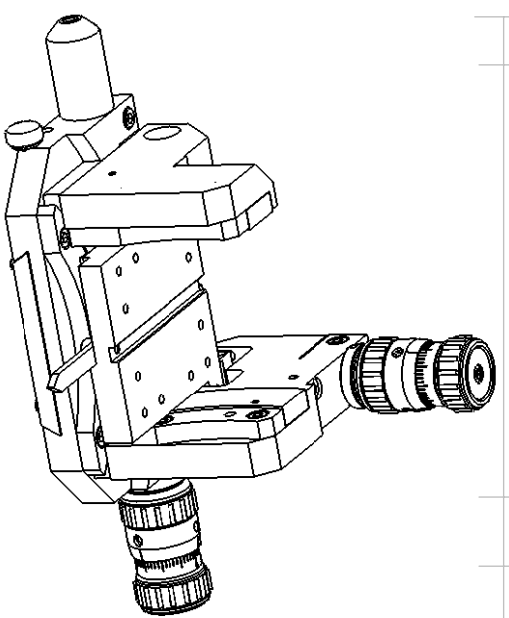
† Patent Nos. GB 2152616B & USA 4617833

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MATERIAL		

Elliott Scientific

TITLE
2 AXIS PITCH YAW MODULE

SIZE
A4

DWG. NO.
MDE185

SCALE: 1:2

THIRD ANGLE PROJECTION

SHEET 1 OF 1

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Elliot Gold™ Series: Fibre Rotators

MDE717 High Precision Fibre Rotator



- Slotted design for easy insertion and removal of fibre
- Full 360° rotation
- Fine adjustment screw with 5 arc seconds resolution
- V-block preset on axis with < 1 µm concentricity error
- V-block can be re-centred by user
- Integrates with Elliot Gold™ series flexure stages

ELLIOT MARTOCK

Designed for the most demanding rotation and alignment of angular sensitive components. It can be used anywhere that stable, accurate fibre rotation is needed.

The popular MDE717 fibre rotator is an updated version of the original and now offers the same highly accurate rotation in a more stable package.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

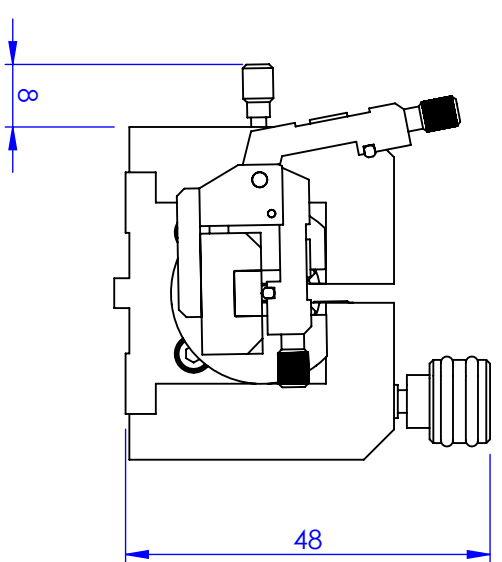
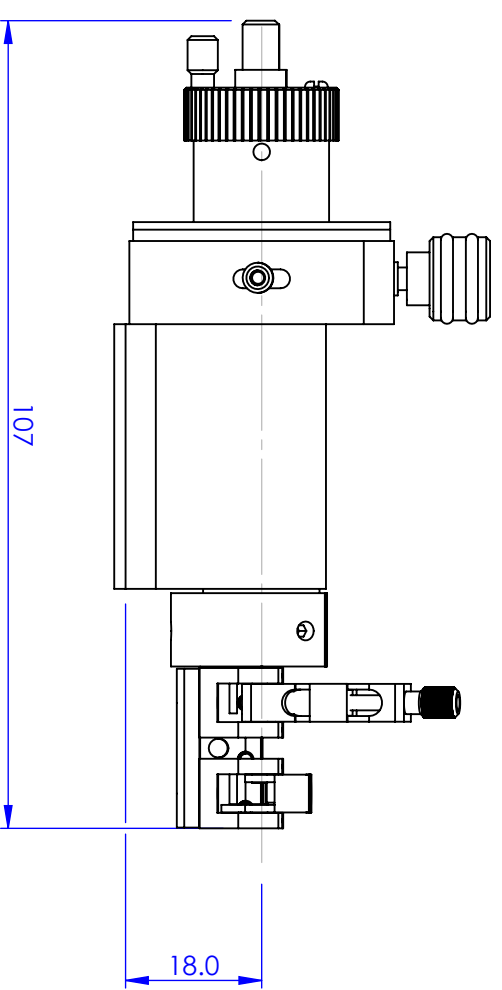
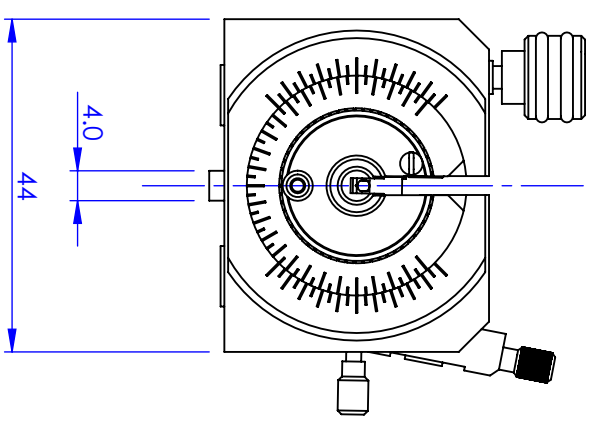
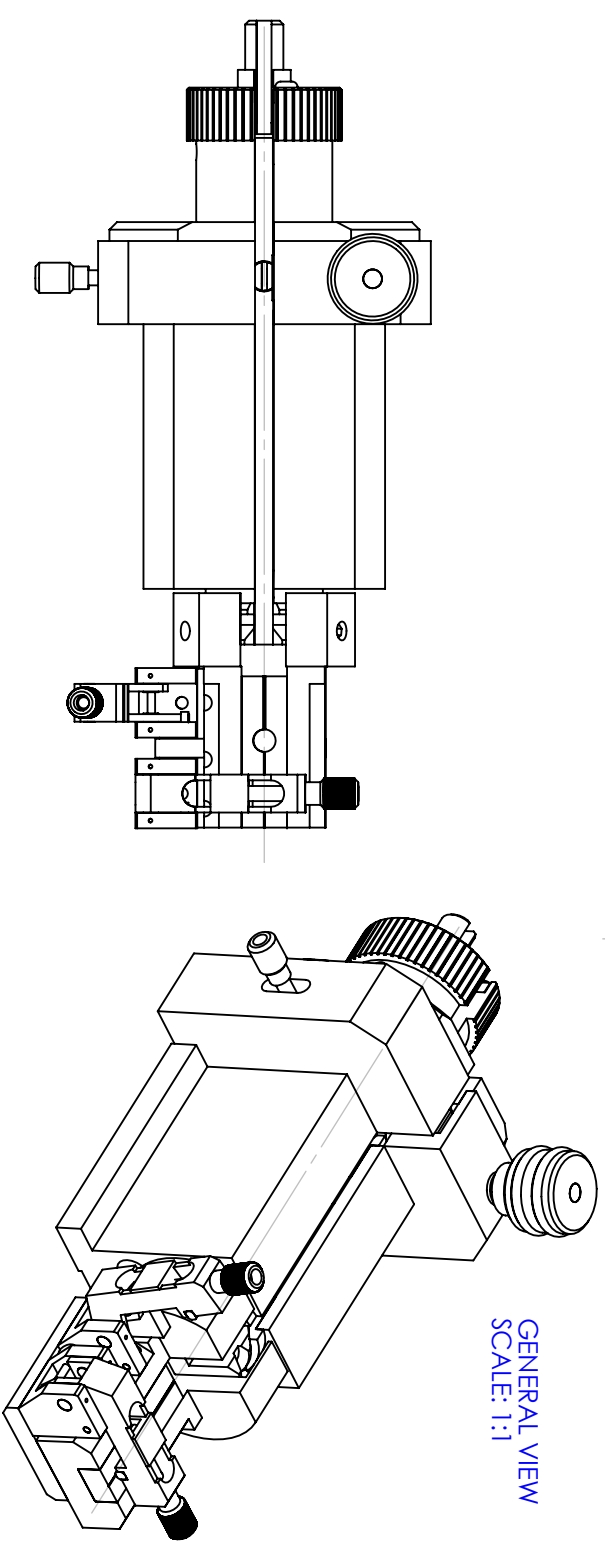
Rotation adjustment	360°
Coarse adjustment	Engraved scale ± 90°, vernier reads to 30 arc minutes
Fine adjustment	Screw with 5 arc seconds resolution
Range	± 5°
Fibre fixturing	Fibre held in double V-groove by two clamp arms
Clamp load	Adjustable 25 g to 125 g
V-block preset on axis with < 1 µm concentricity error	
V-block can be re-centred by user	
Standard V-groove for 125/250 µm fitted	
Split spring sleeve retains fibre in slot at the control end and prevents fouling during rotation	

Options

- V-groove custom sizes available
- OEM upgrade kits for fusion splicers to facilitate splicing of PM fibre
- Connectorised fibre version
- Custom configuration compatible with fibre chucks
- Clamp set (Model MDE154)

For the latest price, contact us today.

REV.	DESCRIPTION	DATE	APPROVED



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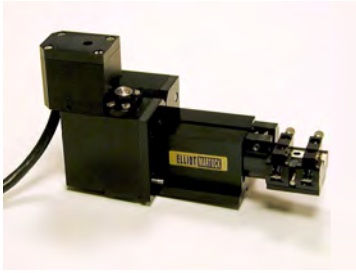
AUTHOR	NAME	DATE
CHECKED	GW	10/09/2010
MATERIAL		

Elliott Scientific	
HIGH PRECISION FIBRE ROTATOR	
SIZE	DWG. NO.
A4	MDE717
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 2	

DO NOT SCALE DRAWING

Elliot Gold™ Series: Fibre Rotators

MDE235 Motorised Fibre Rotator



- Slotted design for easy insertion and removal of fibre
- Full 360° rotation
- Integral stepper motor drive
- Resolution <0.01 degrees
- Fibre held in variable-force V-groove clamps
- Standard V-groove for 125/250 µm fitted
- (Custom sizes available)
- V-block preset on axis with < 1 µm concentricity error
- Stepper drive controllers available with LabVIEW™ drivers
- Integrates with Elliot Gold™ series flexure stages

The MDE235 is a motorised version of the MDE717 fibre rotator. It includes all the features of the original with the addition of a smooth and accurate stepper motor drive. Designed for the demanding rotation and alignment of angular sensitive components. It can be used anywhere that stable, accurate fibre rotation is needed.

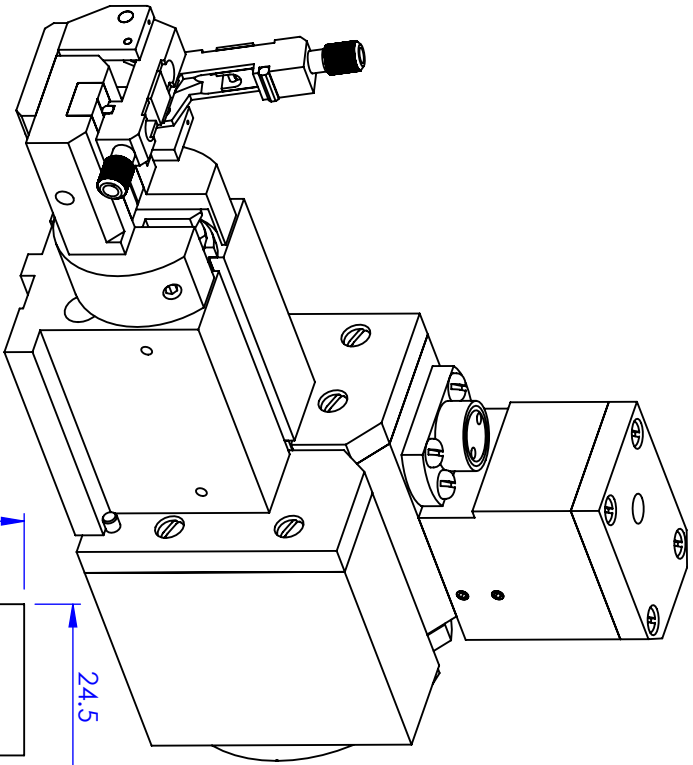
Specifications

Actuator	Stepper motor
Rotation adjustment	Continuous 360°
Resolution	< 0.01° with full step controller
Fibre fixturing	Fibre held in V-groove by two variable force clamp arms
Clamp load	Adjustable 25 g to 125 g
V-block preset on axis with < 1 µm concentricity error	Standard V-groove for 125/250 µm fitted
Split spring sleeve retains fibre in slot at the control end	

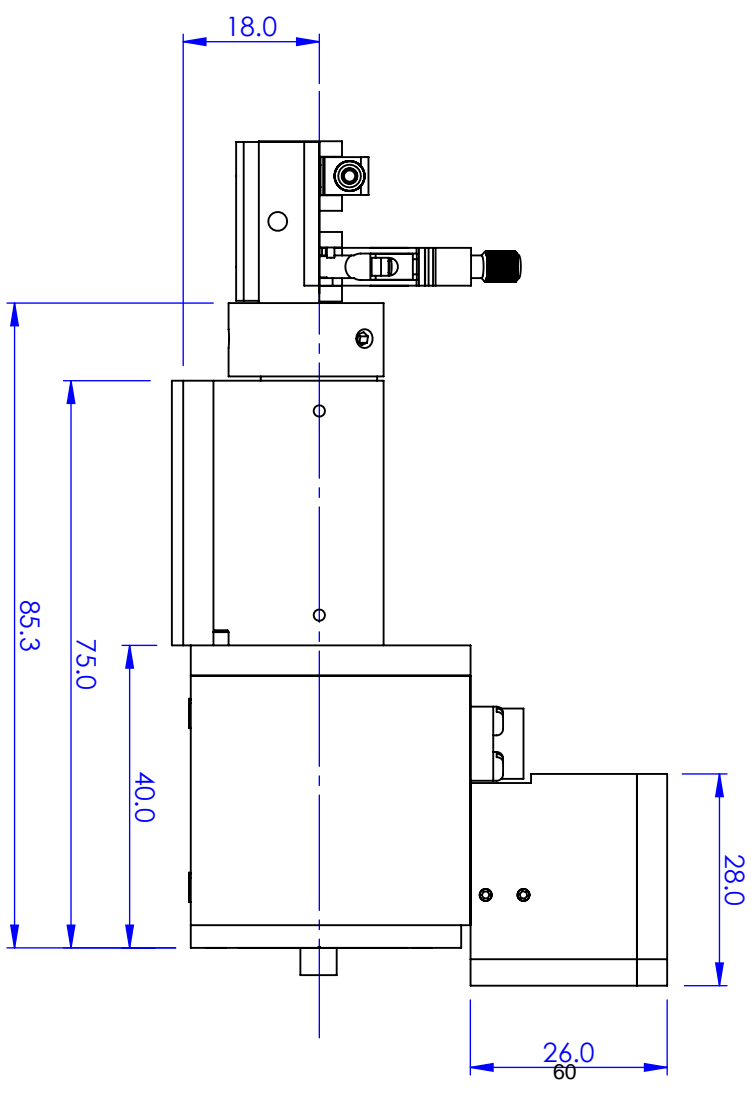
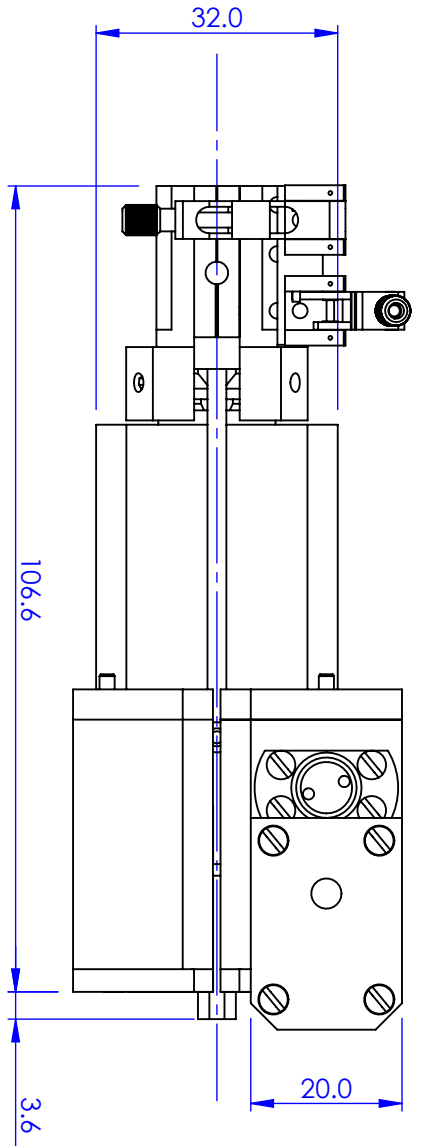
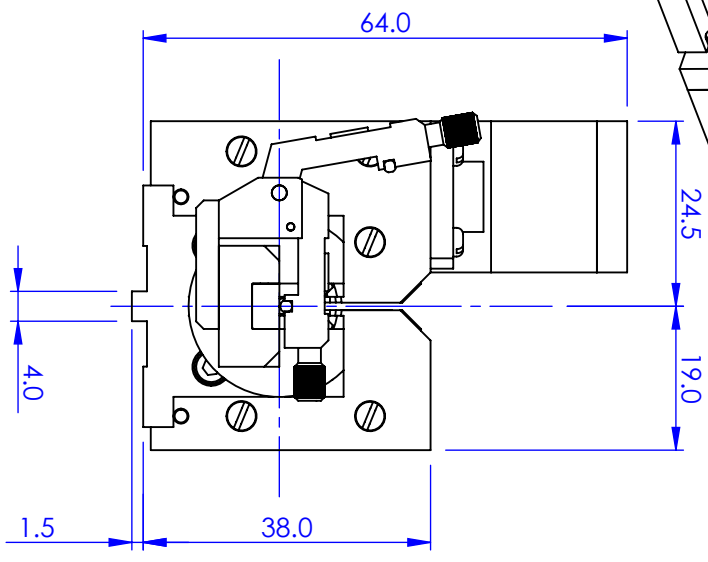
Options

- V-groove custom sizes available
- OEM upgrade kits for fusion splicers to facilitate splicing of PM fibre
- Custom versions compatible with fibre chucks

For the latest price, contact us today.



GENERAL VIEW
SCALE: 1:1



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NAME	DATE
AUTHOR	09/08/2010
CHECKED	
MATERIAL	

Elliott Scientific	
TITLE	
MOTORISED FIBRE ROTATOR	
SIZE	DWG. NO.
A4	MDF235
DO NOT SCALE DRAWING	
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

REV.	REVISIONS	DESCRIPTION	DATE	APPROVED

Elliot Gold™ Series: Fibre Rotators

MDE718 Fibre Rotator



- Slotted design for easy insertion and removal of fibre
- Full 360° rotation
- Resolution approximately 0.1 degrees
- Fibre held in V-groove by single clamp arm
- V-block can be re-centred by user
- Integrates with Elliot Gold™ series flexure stages



An economical fibre rotator designed for less demanding rotation alignment of angular sensitive components. It can be used anywhere that stable, accurate fibre rotation is needed.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms.

The clamp set (MDE154) is available separately if required.

Specifications

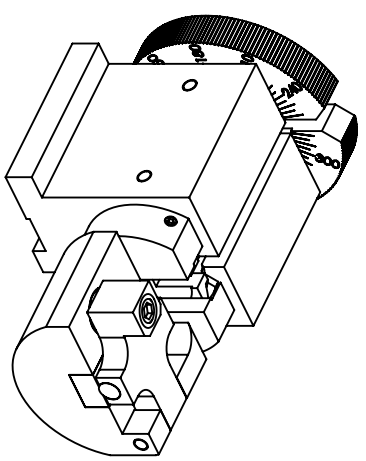
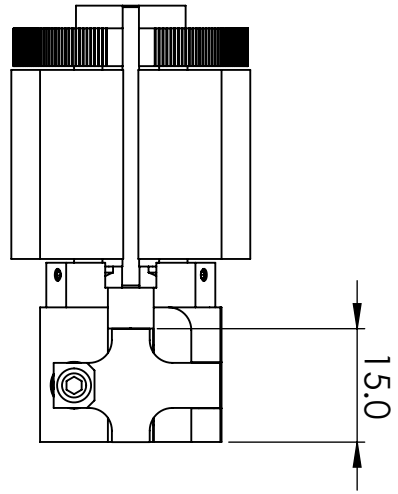
Rotation adjustment	360°
Resolution	Approximately 0.1 degrees
Fibre fixturing	Fibre held in V-groove by single clamp arm V-block can be re-centred by user Standard V-groove for 125 µm fibre fitted

Options

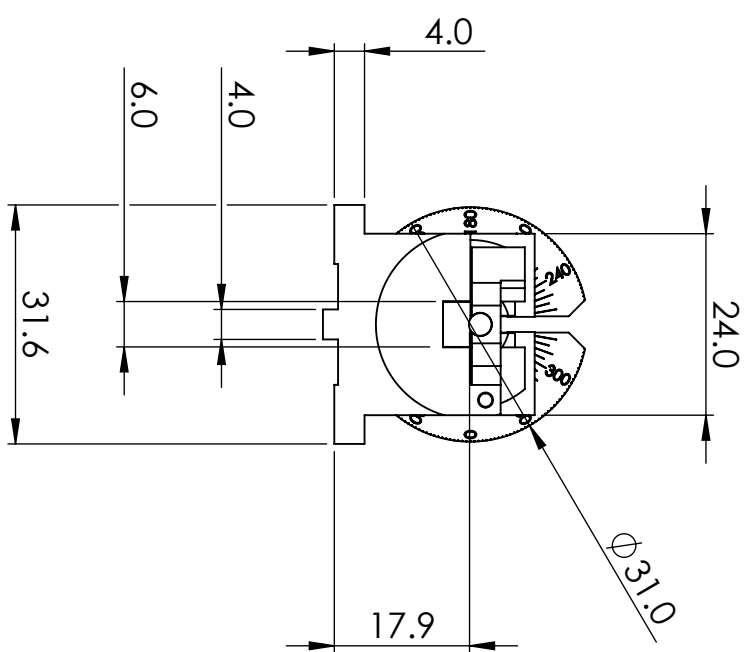
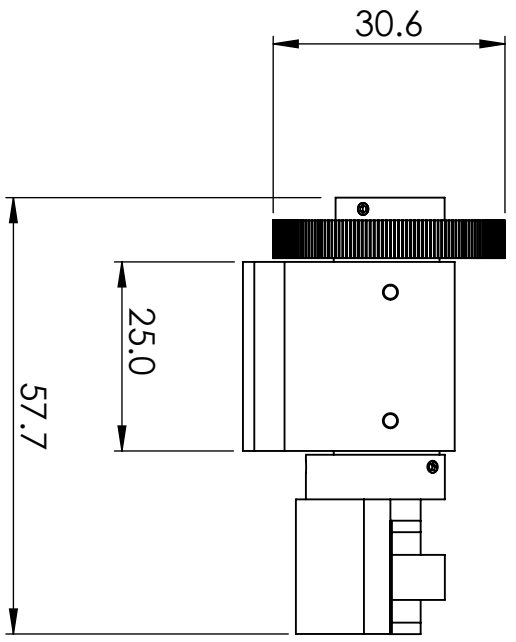
- V-groove custom sizes available (MDE712/nnn)
- OEM upgrade kits for fusion splicers to facilitate splicing of PM fibre
- Custom versions compatible with fibre chucks
- Clamp set (Model MDE154)

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GENERAL VIEW
SCALE 1:1



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AUTHOR GW	10/08/2010
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Eliot Scientific	
TITLE FIBRE ROTATOR	
SIZE A4	DWG. NO. MDE718
DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION
SCALE: 1:1	SHEET 1 OF 1

Elliot Gold™ Series: Fibre Array Rotators

MDE884LH Fibre Array / Crystal Rotator, Long Reach, Left Hand



- θ_x fibre array / crystal manipulator
- Rotates exactly on x-axis
- Maintains 18 mm centre height
- Right handed version available



Unique roll mechanism ensures rotation is exactly about x-axis, and maintains 18 mm centre height. Right and left handed versions available. Can also be supplied with θ_y and θ_z adjustments. Front block is machined by Elliot Scientific or Customer to locate silicon V-groove block on the fibre ribbon.

The unique mechanical roll design features a decoupling of the linear adjuster travel from the roll motion, which minimises any radial offset during rotation. This ensures that angular movements are exactly about the x-axis and that no radial offset is introduced. The precision of motion results in a very high level of accuracy of the roll angle.

Specifications

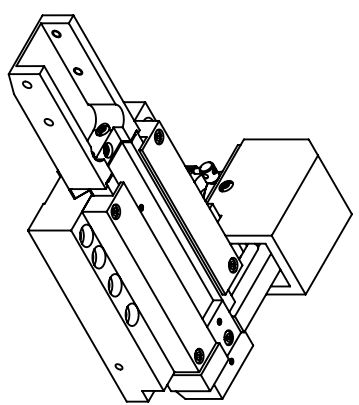
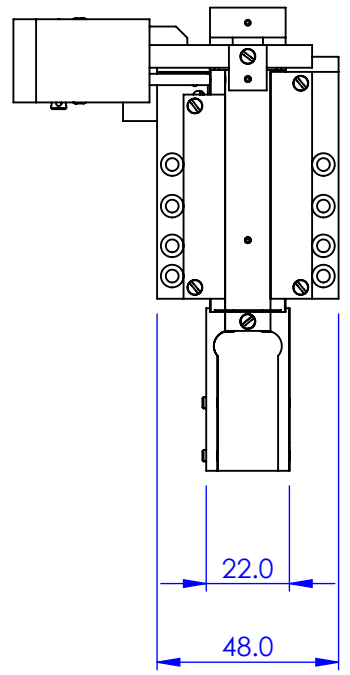
Configuration	Left hand
Centre Height	Maintained at 18 mm
θ_x Rotation	
Coarse range	$\pm 4^\circ$
Fine range	± 10 arc minutes
θ_x Resolution (Coarse adjustment)	8 arc seconds
θ_x Resolution (Fine adjustment)	< 0.1 arc seconds

Options

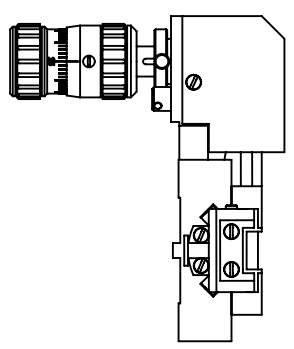
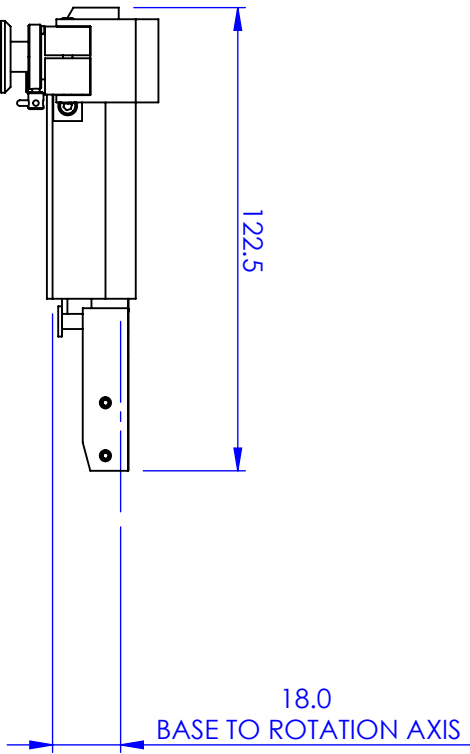
- θ_y and θ_z versions
- Inverted drive version if space is limited

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GENERAL VIEW
SCALE: 1:2



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AUTHOR	NAME	DATE
CHECKED	GW	03/06/2010
MATERIAL		
FINISH		

Eliot Scientific	
TITLE	
RIBBON CABLE ROTATOR	
SIZE	DWG. NO.
A4	MDE884LH
SCALE: 1:2	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

DO NOT SCALE DRAWING

Elliot Gold™ Series: Fibre Array Rotators

MDE884RH Fibre Array / Crystal Rotator, Long Reach, Right Hand



- θ_x fibre array / crystal manipulator
- Rotates exactly on x-axis
- Maintains 18 mm centre height
- Left handed version available



Unique roll mechanism ensures rotation is exactly about x-axis, and maintains 18 mm centre height. Right and left handed versions available. Can also be supplied with θ_y and θ_z adjustments. Front block is machined by Elliot Scientific or Customer to locate silicon V-groove block on the fibre ribbon.

The unique mechanical roll design features a decoupling of the linear adjuster travel from the roll motion, which minimises any radial offset during rotation. This ensures that angular movements are exactly about the x-axis and that no radial offset is introduced. The precision of motion results in a very high level of accuracy of the roll angle.

Specifications

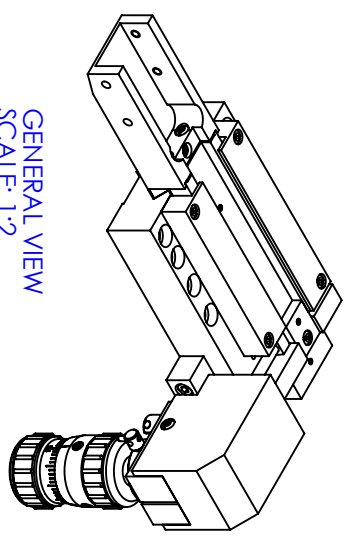
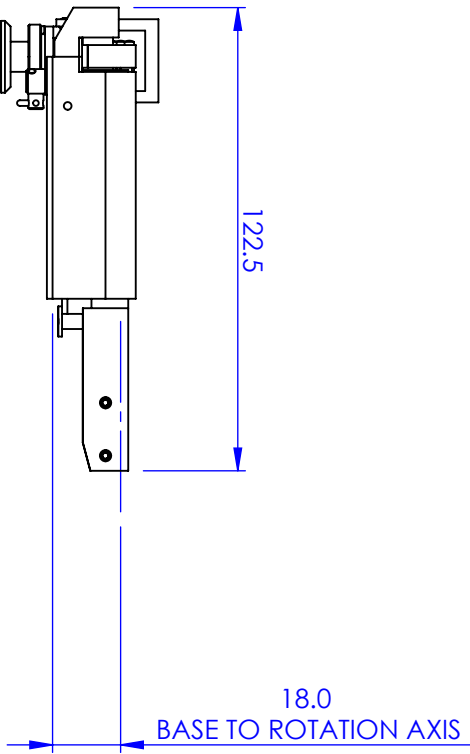
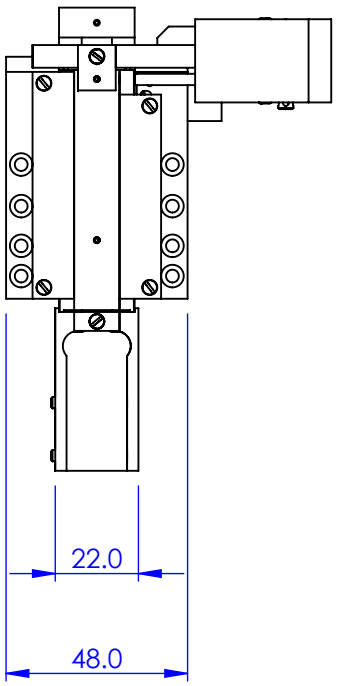
Configuration	Right hand
Centre Height	Maintained at 18 mm
θ_x Rotation	
Coarse range	$\pm 4^\circ$
Fine range	± 10 arc minutes
θ_x Resolution (Coarse adjustment)	8 arc seconds
θ_x Resolution (Fine adjustment)	< 0.1 arc seconds

Options

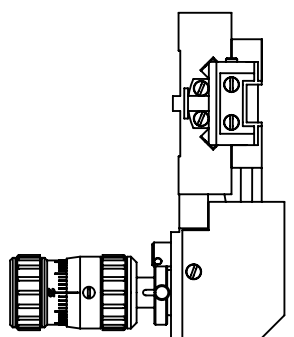
- θ_y and θ_z versions
- Inverted drive version if space is limited

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:2



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FINISH		

Eliot Scientific

TITLE
RIBBON CABLE ROTATOR

SIZE **A4** DWG. NO. **MDE884**

DO NOT SCALE DRAWING SCALE: 1:2 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Six-Axis Positioner

MDE187 Six-Axis Positioner fitted with High Precision Manual Adjusters



ELLIOT MARTOCK

- Based on ultra-stable patented† design XYZ flexure stage
- 2 mm linear travel in XYZ axes with 20 nm resolution
- Roll adjustable through full 360° rotation
- Roll resolution 5 arc seconds
- Optical axis height 125 mm
- Slotted design for easy insertion and removal of fibre
- V-block preset on axis with < 1 µm concentricity error
- V-block can be re-centred by user
- Pitch and yaw resolution < 0.1 arc secs
- Pitch and yaw adjustments about a single point in space in a true arc with no cross-talk

The model MDE187, six-axis positioner is built up from the Elliot Gold™ Series of micro-positioning precision components.

It facilitates precise manual adjustment in XYZ linear axes, plus pitch (θY), yaw (θZ) and roll (θX) with excellent accuracy and long term stability.

The Six-Axis positioner comprises:

MDE185 Pitch and Yaw Stage with High Precision Adjusters

MDE717 High Precision Fibre Rotator

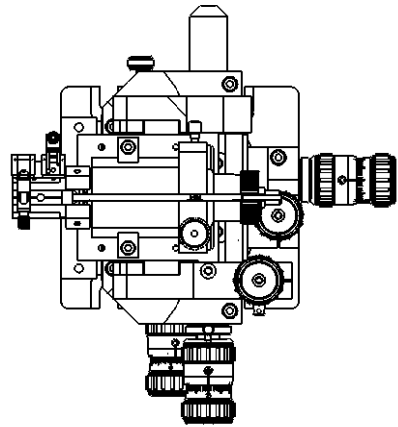
MDE154 Clamp Set

MDE122 Elliot Gold™ Series XYZ flexure stage fitted with high precision manual adjusters

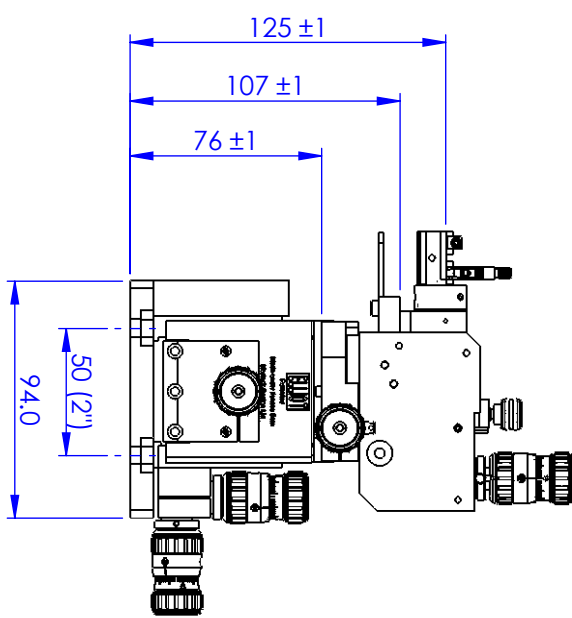
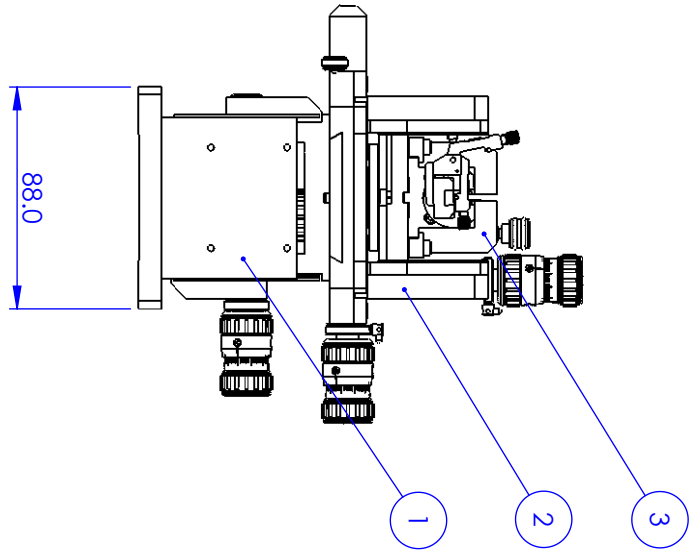
† Patent Nos. GB 2129955B & USA 4635887

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



PART NO.	ITEM NO.	QTY.	DESCRIPTION
MDE122	1	1	XYZ FLEXURE STAGE
MDE185	2	1	PITCH & YAW MODULE
MDE717	3	1	FIBRE ROTATOR



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CHECKED	GW	19/12/2006

Eliot Scientific

TITLE: **6 AXIS POSITIONER**

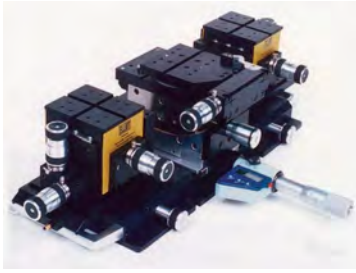
SIZE: **A4** DWG. NO.: **MDE187**

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SCALE: 1:3 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Alignment System

MDE881 Professional Workstation



- 6-Axis precision manipulation
- All 6 axes are truly independent of each other
- No cross-talk
- Direct readout of waveguide Y axis position
- Portable & stable - no need for an optical table
- Fast rack & pinion drive enables easy access to central workstation for simple loading

ELLIOT MARTOCK

Optical workstation with six independent axes of manipulation. Designed for precise alignment of both input and output fibres to an optical waveguide device.

Alignment of single mode fibres to photonic devices is a demanding task and the Elliot/Martock range of precision positioners was originally developed to address this application. With dual interface optical waveguide devices however, things become more complicated as it is necessary to align fibres (or fibre arrays) to both the input and output facets of a device.

The MDE881 Workstation has been designed specifically to provide the multiple degrees of motion required for this type of critical alignment and is suitable for use with a wide range of devices and fibre types for both characterisation and pigtailling applications.

For enhanced operator convenience and productivity, each of these XYZ flexure stages can be moved away from the central stage by 40 mm travel on a rack and pinion drive. This allows rapid outward movement of the XYZ stages holding the fibres in order to access the central stage and hence facilitates loading of the workstation.

Specifications

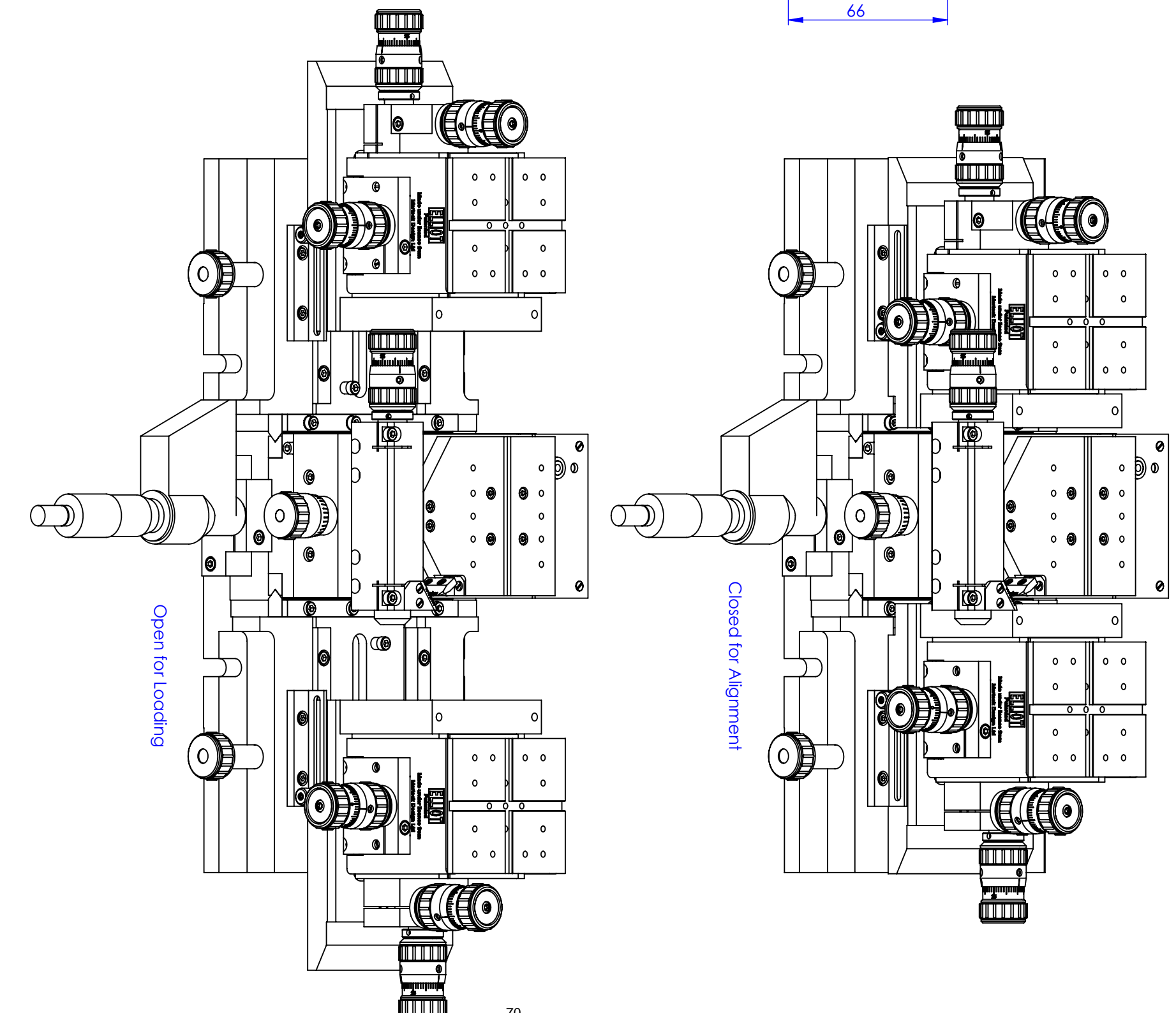
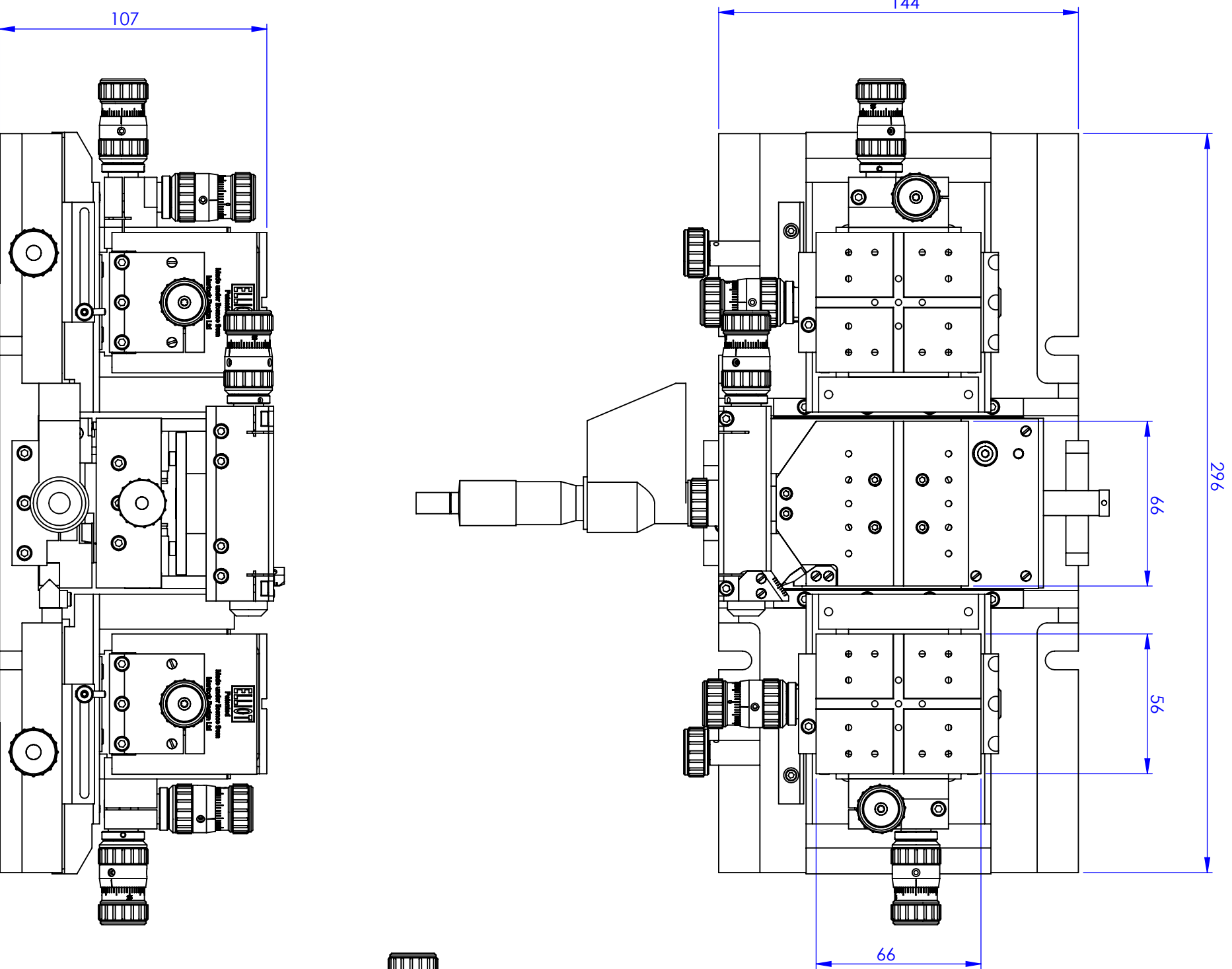
Configuration	Dual Elliot Gold™ Series XYZ Flexure Stages (MDE122), each mounted on a Rack & Pinion Slide Central 5-axis stage Integral base plate with carrying handles
Optical Axis Height	125 mm from bottom of base plate, coincident with a point 18 mm above the middle of the top plate of the θ_z rotation unit
Flexure Stages	See MDE122 Specifications
Central Workstation	See MDE883 Specifications
Rack & Pinion Slides	40 mm coarse travel in X axis. Lockable. Adjustable end-stop defines position to $<1 \mu\text{m}$ accuracy.

Options

MDE881-60 Workstation with 60 mm travel
MDE747 Waveguide Mount with Pitch, Roll and Height Adjust
MDE890 Waveguide Mount with θ_y and X Adjust
MDE891 Waveguide Mount with θ_y plus X and Z Adjust
Waveguide/Device Holders & Other Accessories
MDE884RH & MDE884LH Fibre Array / Crystal Rotator, Long Reach

More detailed information about this product can be found on our website.

For the latest price, contact us today.

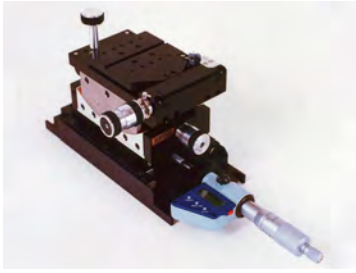


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CHECKED	AUTHOR	NAME	DATE	TITLE	SIZE	DWG. NO.	SCALE	THIRD ANGLE PROJECTION	SHEET 1 OF 1
--	GW	GW	19/11/2009	DEVICE / WAVEGUIDE MANIPULATOR	A3	MDE881	SCALE: 1:2		
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MDE883 Central Workstation with Rotation, Tilt and Transverse Motion



- $\pm 4^\circ$ adjustment, 1 arc sec resolution for θ_x and θ_z
- $\pm 1^\circ$ for θ_y
- 25 mm travel, 0.5 μm resolution for Y axis
- Direct readout of device Y linear travel position
- 6 mm travel, > 2 μm resolution for Z axis
- Mounts directly onto 25 mm or 1" pitch table



The Central Workstation provides roll (θ_x) and pitch (θ_y) at a height of 125 mm from the bottom of the base plate and these both coincide with the yaw (θ_z) axis at a height of 18 mm above the middle of the top plate of the θ_z rotation unit. Rotation axes are defined by curved bearings hence rotation is always in a true arc. Digital readout of the Y travel is provided to allow the operator to read waveguide positions. Thus stepping the fibre across the substrate to locate individual waveguides becomes a simple task.

The MDE883 Central Workstation was designed to be a key part of the MDE881 6-axes manipulator. However for applications where the geometry of the standard MDE881 is not suitable we offer the system in its key component parts, allowing custom set-ups to be configured on an optical table or breadboard. This approach means that the system can be purchased in parts as required.

Thus the MDE883 can be used in situations where the standard in-line configuration of the MDE881 is not suitable. For example when the waveguide inputs and outputs are angled at 90 degrees. Alternatively, building the system in kit form provides greater flexibility in adapting the modules to a wider range of applications.

Specifications

θ_x	$\pm 4^\circ$ rotation with 1 arc sec resolution
θ_z	$\pm 4^\circ$ rotation with 1 arc sec resolution
θ_y	$\pm 1^\circ$ rotation adjustable by hex key supplied with MDE881. Adjustment is useful for aligning to waveguides mounted on epoxy in packages where device is not necessarily sitting flat.
Y-travel	25 mm standard (MDE883) with 0.5 μm resolution and direct digital read-out of position to 1 μm (with digital micrometer)
Z-travel	6 mm with 2 μm resolution by means of hex key adjuster
Axis Height	125 mm from bottom of base plate
Includes Model MDE154 clamp set	

Options

- MDE883-60 with 60 mm of Y-travel
- MDE890 and MDE891 can be used to extend the rotation range - useful for holding components such as Fabry-Perot filters

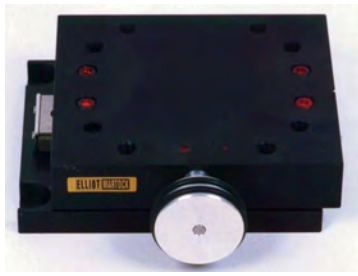
More detailed information about this product can be found on our website.

For the latest price, contact us today.



Elliot Gold™ Series: Slide

MDE889 Rack & Pinion Slide – 60 mm



- 60 mm travel
- Adjustable end-stop defines position to < 1 μm accuracy
- Lockable
- Bolts directly to optical table
- Large thumbwheel for faster positioning

ELLIOT MARTOCK

A precision translation unit designed for mounting directly to the optical table. The large mounting area can be quickly moved to and fro via the thumbwheel mechanism.

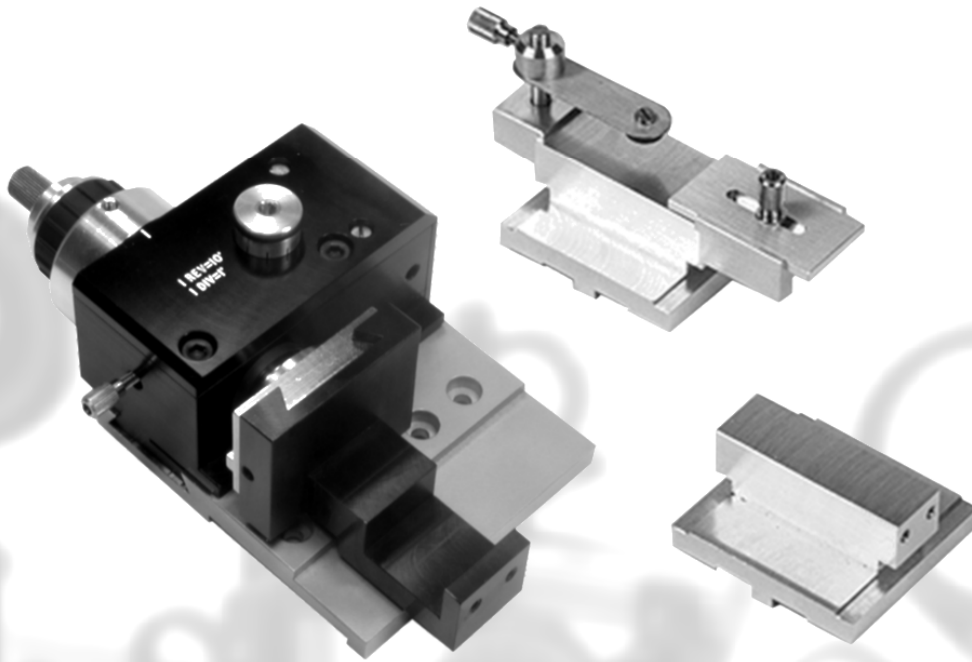
Specifications

Travel	60 mm Lockable
End stop accuracy	< 1 μm

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Opto-Mechanics 2012

Gold Series Accessories





Elliot Gold™ Series: Platforms & Mounts

MDE150 Objective Lens Mount. Standard RMS 0.800"-36 Thread



ELLIOT MARTOCK

Objective lens mount fitted with a removable stainless steel sleeve cut with the microscope objective thread. Allows easy adjustment and exchange of objectives or other components having the standard RMS 0.800"-36 thread.

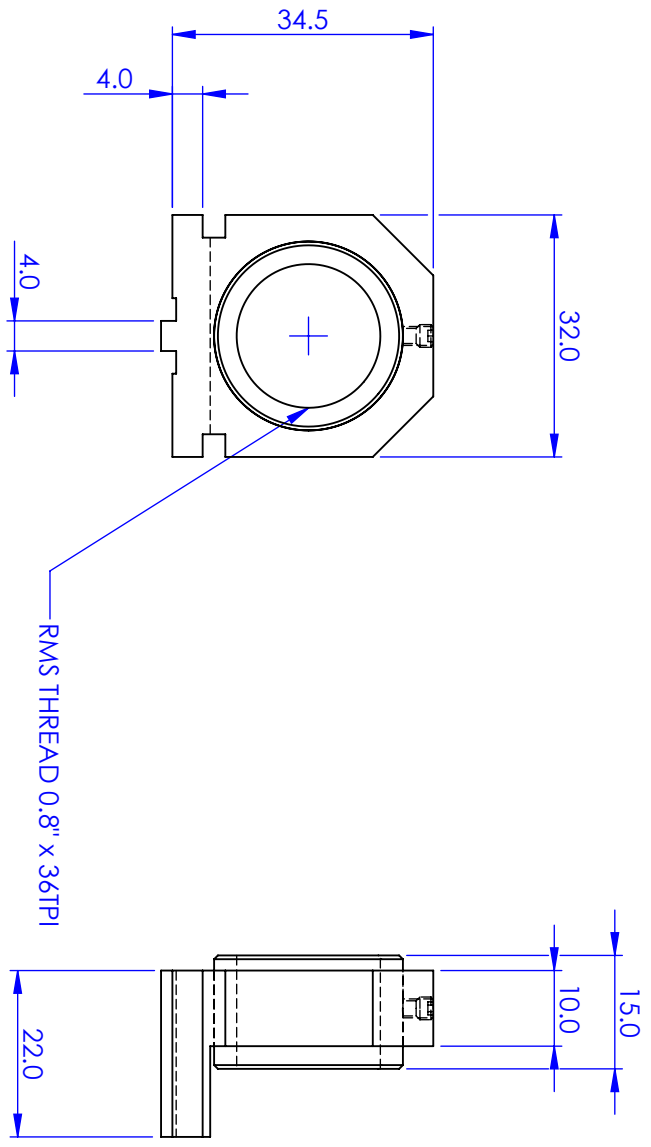
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Options

- Extension tube (MDE156)
- Flange insert for machining (MDE152)
- Plain mount with 25mm bore (MDE151)
- Adaptor plate for post holder (MDE155)
- Clamp set (MDE154)

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES AND CORNERS TO BE REMOVED

AUTHOR	NAME	DATE
ORIGINAL	GW	11/02/2008
MATERIAL	---	
FINISH	---	

Elliott Scientific

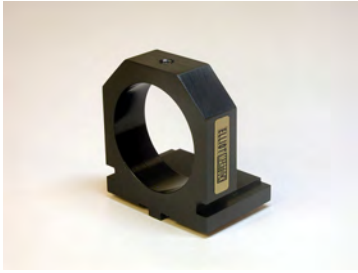
TITLE: **OBJECTIVE MOUNT MDE150**

SIZE: **A4** DWG. NO.: **MDE150**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Platforms & Mounts

MDE151 Plain Mount



ELLIOT MARTOCK

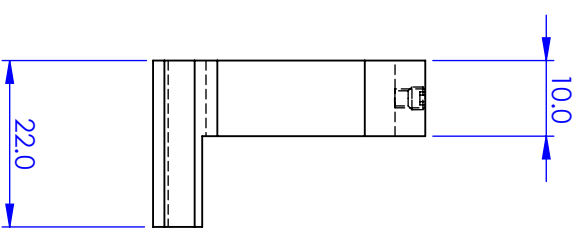
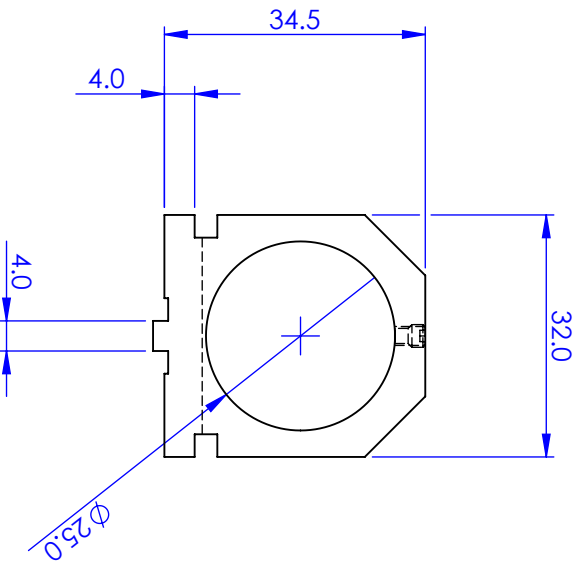
Plain mount fitted with a 25 mm bore that will hold 25 mm components such as Component Flange MDE152. All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Options

- Extension tube (MDE156)
- Flange insert for machining (MDE152)
- Clamp set (MDE154)
- Adaptor plate for post holder (MDE155)
- Extension tube (Model MDE156)

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 ANGULAR TOLERANCES: \pm
 SURFACE FINISH:
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AUTHOR	NAME	DATE
ORIGINAL		
3D MODEL	GW	11/02/2008
MATERIAL	---	
FINISH	---	

Elliott Scientific

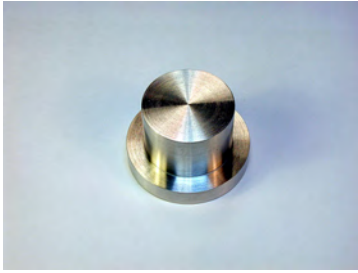
TITLE: **PLAIN MOUNT MDE151**

SIZE: **A4** DWG. NO.: **MDE151**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Platforms & Mounts

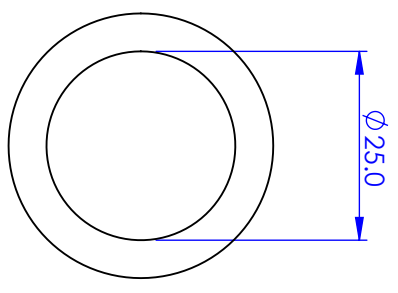
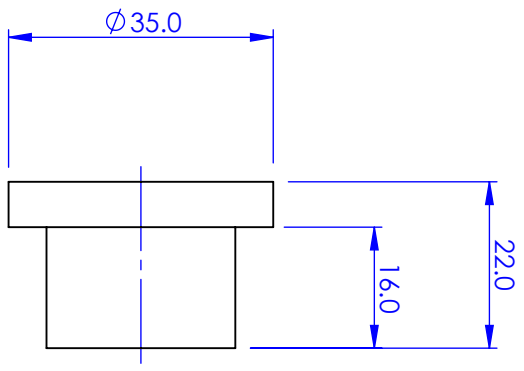
MDE152 Component Flange



Aluminium alloy flange insert which can be machined by Elliot Scientific or customer to hold components such as fibre chucks. For use with Plain Mount MDE151 or Objective/Ball Lens Mount MDE150.

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REV.	DESCRIPTION		



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 SURFACE FINISH:
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AUTHOR	NAME	DATE
ORIGINAL	KFH	
3D MODEL	GW	11/02/2008

Elliott Scientific

TITLE: **COMPONENT FLANGE**

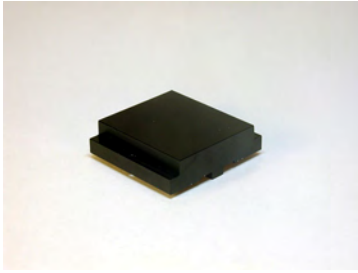
FINISH: **ALUM ALLOY**

SIZE: **A4** DWG. NO.: **MDE152**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Platforms & Mounts

MDE153 Component Plate



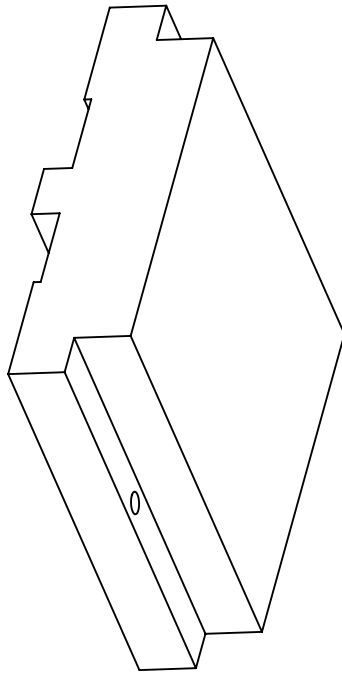
ELLIOT MARTOCK

Component plate that clamps to Elliot Gold™ series flexure stages. Provides a basic platform for mounting of non-standard components.

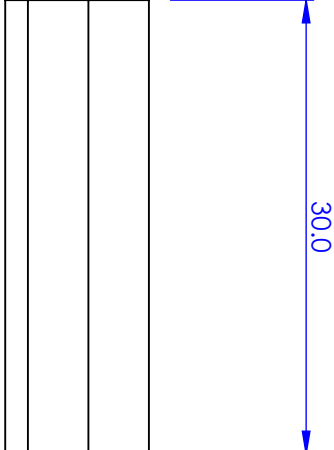
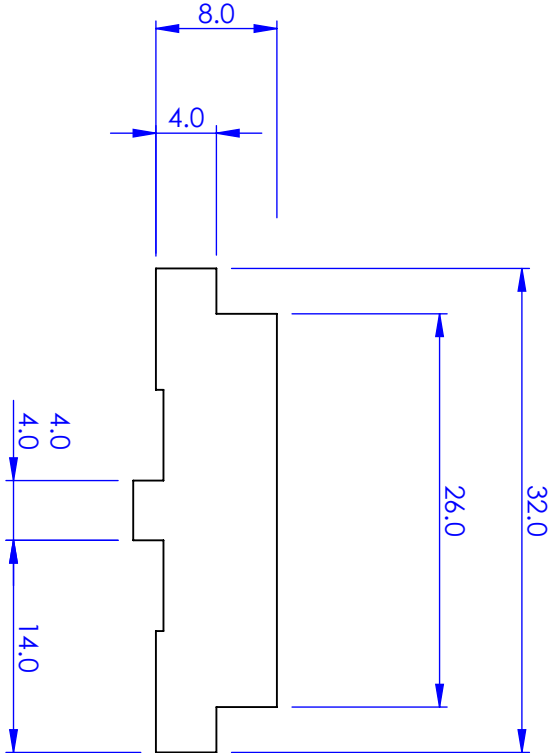
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary, a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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GENERAL VIEW
SCALE: 2:1



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DIMENSIONS ARE IN mm
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AUTHOR	NAME	DATE		
ORIGINAL	GW	11/02/2008		
3D MODEL	GW	11/02/2008	COMPONENT PLATE	
MATERIAL	ALUM. ALLOY			
FINISH	ANODISED BLACK		SIZE	DWG. NO.
DO NOT SCALE DRAWING	A4	MDE153	SCALE2:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1	

Elliot Gold™ Series: Platforms & Mounts

MDE154 Clamp Set

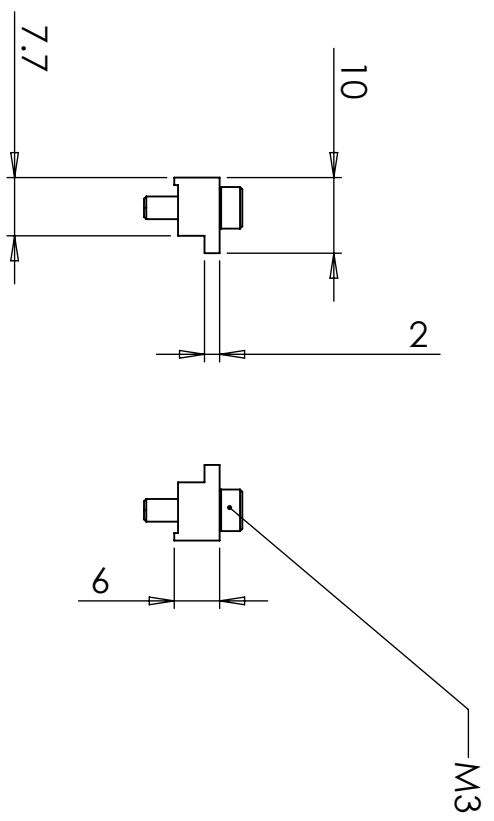
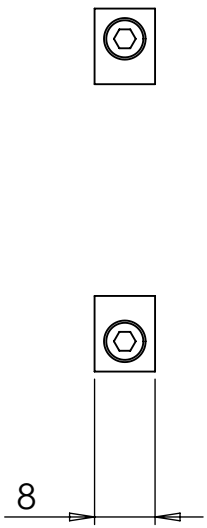


ELLIOT MARTOCK

Clamp set for use with XYZ Flexure Stage accessories. Includes two clamps plus screws and a socket key. One clamp set is supplied with each of the flexure stages and accessory platforms.

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MDE154

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AUTHOR	NAME	DATE
CHECKED	GW	12/07/2010
MATERIAL		
FINISH		

Eliot Scientific

TITLE
CLAMP SET

SIZE **A4** DWG. NO. **MDE154**

SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Platforms & Mounts

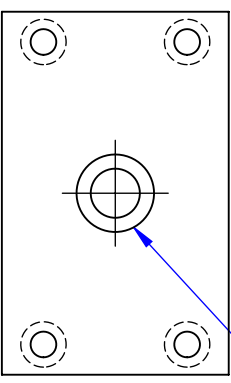
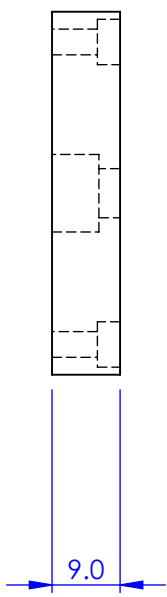
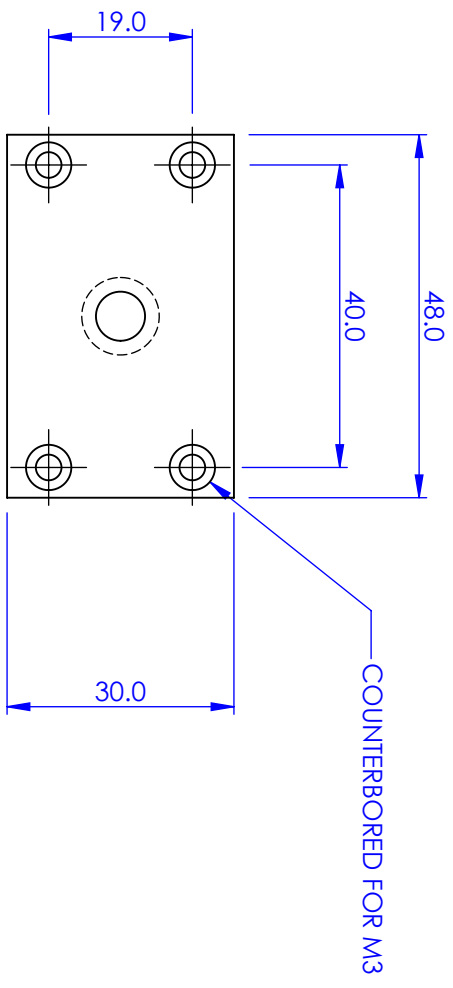
MDE155 Adaptor Plate: M6 Post Holder to Elliot Gold™ Flexure Stage



Adaptor plate that clamps to Elliot Gold™ series flexure stages. Enables M6 table post holders to fit XYZ flexure top. All accessories are compatible with the Elliot Gold™ series flexure stages.

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AUTHOR	NAME	DATE
CHECKED	GW	12/07/2010

MATERIAL		TITLE	
ALUM ALLOY		ADAPTER PLATE	
FINISH	SIZE	DWG. NO.	
ANODISED BLACK	A4	MDE155	
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1



Elliot Gold™ Series: Platforms & Mounts

MDE156 Extension Tube



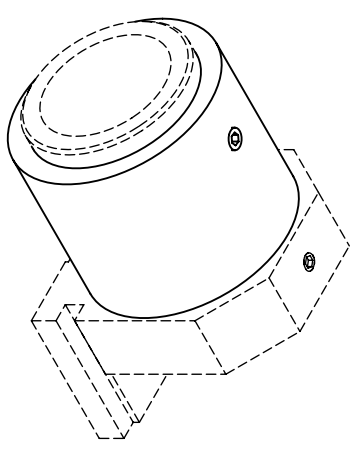
ELLIOT MARTOCK

Extension tube for use on MDE150 Objective/Ball Lens mount and MDE151 Plain Mount. Extends reach by 25 mm allowing access to components on wide platforms.

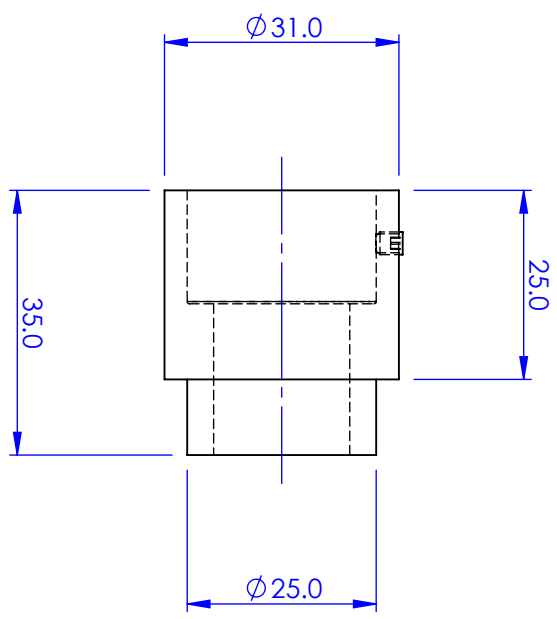
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary, a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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GENERAL VIEW
SCALE: 1:1
(SHOWN WITH MDE150)



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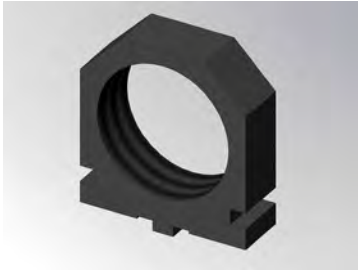
DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: ±
SURFACE FINISH:
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REMOVED

NAME	DATE
AUTHOR GW	12/02/2010
CHECKED	

MATERIAL ALUM ALLOY		TITLE Elliott Scientific	
FINISH ANODISED BLACK		EXTENSION TUBE	
SIZE A4	DWG. NO. MDE156		
DO NOT SCALE DRAWING	SCALE: 1:1	THIRD ANGLE PROJECTION	SHEET 1 OF 1

Elliot Gold™ Series: Platforms & Mounts

MDE157 Threaded Optic Mount. SM1 Series 1.035"-40 Thread



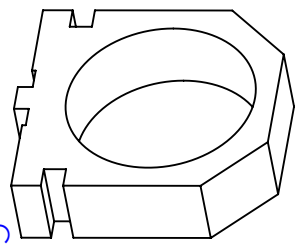
- Designed to interface with Thorlabs SM1 series lens tubes
- and accessories. This mount has a 1.035"-40 thread.

ELLIOT MARTOCK

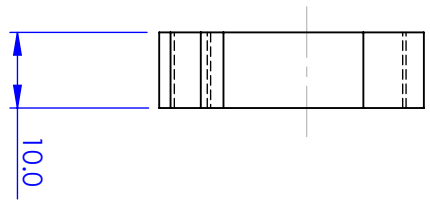
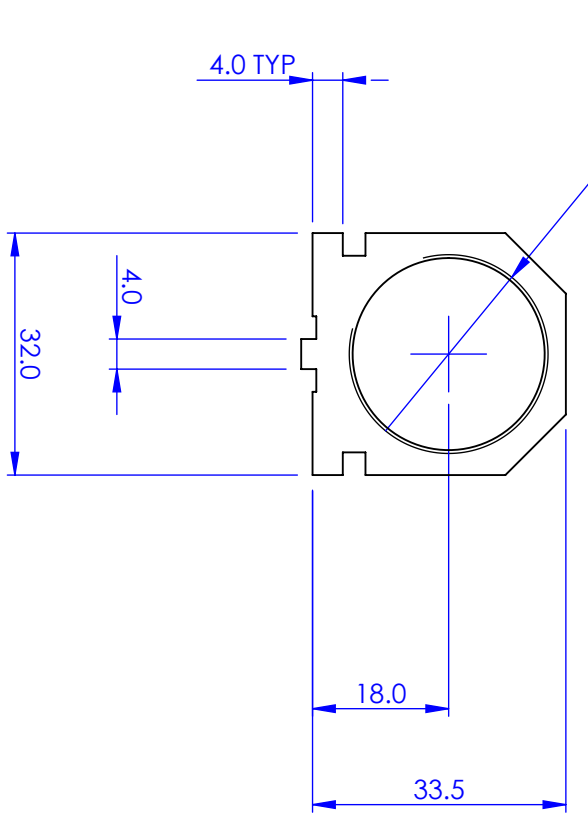
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



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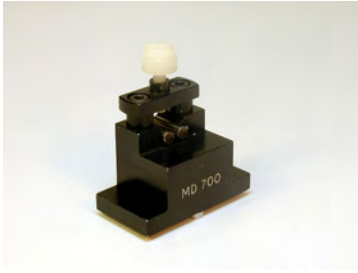
AUTHOR	NAME	DATE
CHECKED	GW	24/03/2006

MATERIAL		TITLE	
ALUM ALLOY		THREADED MOUNT	
FINISH		SIZE	DWG. NO.
ANODISED BLACK		A4	MDE157
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1



Elliot Gold™ Series: Fibre Holders

MDE700 2 ~ 4.5 mm diameter Ferrule Holder



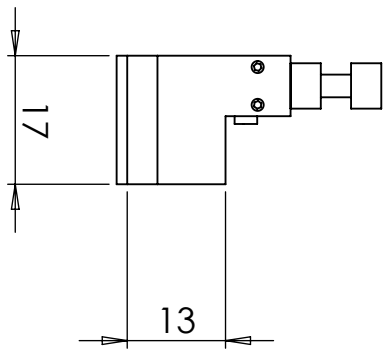
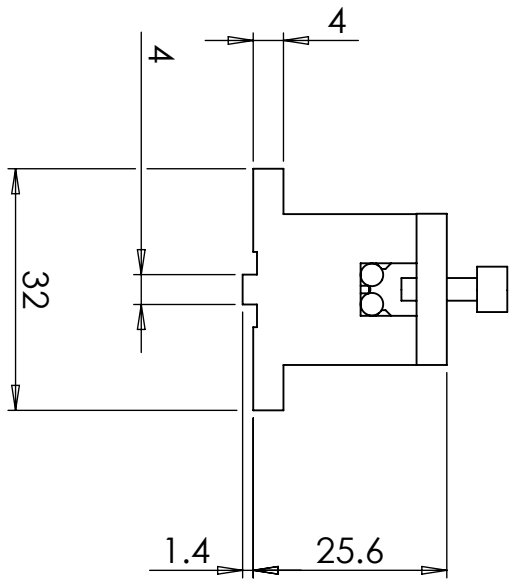
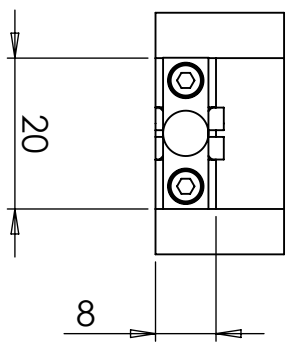
- Can also be used to hold GRIN lenses
- V-groove formed by two 9 mm stainless steel rods
- Nylon clamp screw avoids damage to component being held
- Holds optical fibre terminated with a cylindrical ferrule
- Fibre held in user-replaceable V-groove by spring clamps

ELLIOT MARTOCK

All accessories are compatible with the Elliot Gold™ Series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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MDE700
(FERRULES \varnothing 2.0mm TO \varnothing 4.5mm)

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AUTHOR	NAME	DATE
CHECKED	GW	09/08/2010
MATERIAL		
FINISH		

Eliot Scientific

TITLE
FERRULE HOLDER

SIZE
A4

DWG. NO.
MDE700

DO NOT SCALE DRAWING

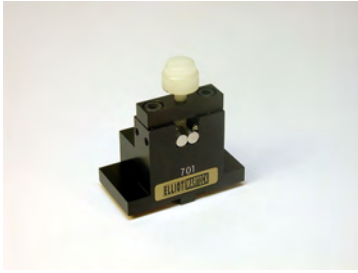
SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Fibre Holders

MDE701 1 ~ 2 mm diameter Ferrule Holder



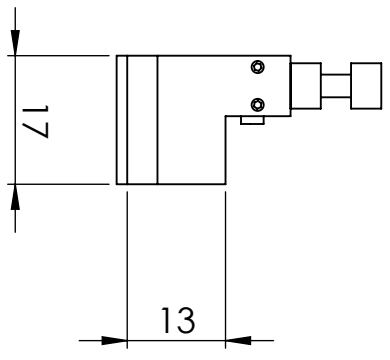
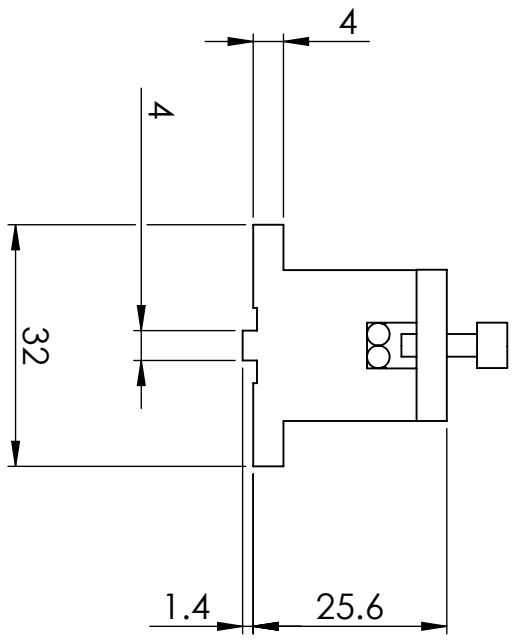
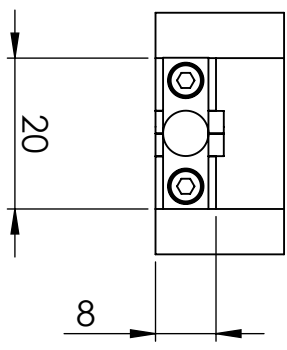
- Can also be used to hold GRIN lenses
- V-groove formed by two 9 mm stainless steel rods
- Nylon clamp screw avoids damage to component being held
- Holds optical fibre terminated with a cylindrical ferrule
- Fibre held in user-replaceable V-groove by spring clamps

ELLIOT MARTOCK

All accessories are compatible with the Elliot Gold™ Series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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MDE701
(FERRULES ϕ 1.0mm TO ϕ 2.0mm)

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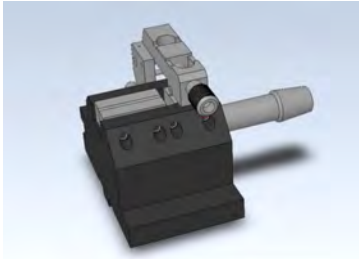
DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: \pm 0.1
 ANGULAR TOLERANCES: \pm
 SURFACE FINISH:
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 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	09/08/2010
MATERIAL		
FINISH		

TITLE	FERRULE HOLDER
SIZE	A4
DWG. NO.	MDE701
SCALE: 1:1	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	
SHEET 1 OF 1	

Elliot Gold™ Series: Fibre Holders

MDE705 Fibre Holder (Vacuum & Mechanical)



ELLIOT MARTOCK

- Very easy to use
- Very low forces on fibre
- Clamp force adjustable from 25 to 125 g
- Vacuum V-groove can be dismantled for cleaning
- Holds 125/250 µm fibre with a jacket up to 1 mm diameter
- Clamp arm swings clear of V-groove for easy loading of fibre
- Vacuum is applied through a fine slot for even clamping of fibre

The model MDE705 Fibre Holder is designed to cradle 125/250 µm fibre with a jacket up to 1 mm diameter. The unit utilises a slotted vacuum V-groove that holds the 125/250 µm bare fibre evenly, together with a clamp arm that grips the fibre jacket. The clamp force of the arm can be adjusted to relieve the pull of the trailing cable. These features combine to produce very low forces on the fibre.

The fibre holder is designed to complement the Elliot Gold™ series XYZ flexure stages, but can also be mounted on a conventional 25 mm pitch optical table using adaptor plate MDE860, or M4 post using the same adaptor.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

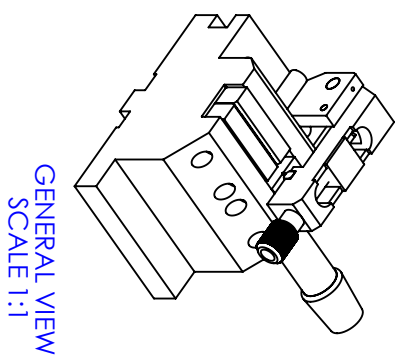
Configuration	Vacuum V cladding and clamp arm for jacket
Fibre size	125/250 µm fibre with up to 1 mm jacket
Vacuum V-groove	Double V-groove to suit 125/250 µm fibre
Vacuum slot length	7.5 mm for even clamping of the fibre
Vacuum connection	4 mm bore pipe or M5 port
Fibre Clamp	Single clamp arm with adjustable force
Clamp force	Adjustable from 25 to 125 g
Optical Axis	94 mm when mounted on an Elliot Gold™ series XYZ flexure stage

Options

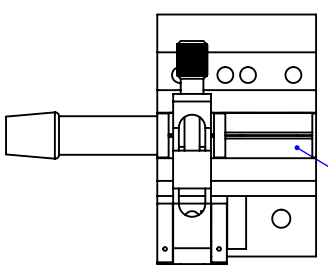
Custom sized V-grooves

For the latest price, contact us today.

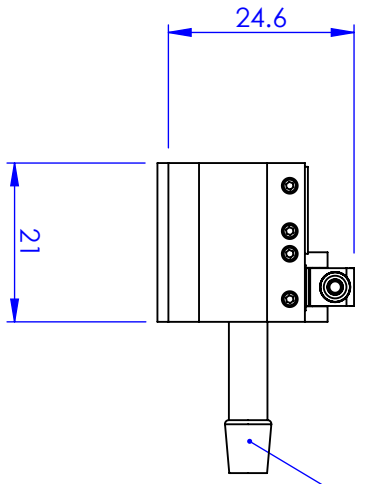
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



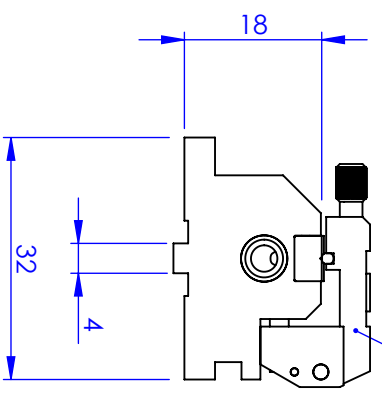
GENERAL VIEW
SCALE 1:1



VACUUM V GROOVE



VACUUM PIPE



CLAMP ARM

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AUTHOR	NAME	DATE
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MATERIAL		
FINISH		

Eliot Scientific

TITLE
VACUUM AND ARM FIBRE CLAMP

SIZE **A4** DWG. NO. **MDE705**

DO NOT SCALE DRAWING SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Fibre Holders

MDE709 Bare Fibre Holder (Mechanical)



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- Holds 125/250 µm fibre (other sizes to order)
- Clamp arm swings clear of V-groove for easy loading of fibre



The model MDE709 Fibre Holder features a double V-groove and single clamp arm to hold 125 µm fibre. The clamp arm swings clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use. The single clamp arm holds the 125 µm stripped section of fibre.

The fibre holder is designed to complement the Elliot Gold™ series XYZ flexure stages, but can also be mounted on a conventional 25 mm pitch optical table using adaptor plate MDE860 or M4 post using the same adaptor.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

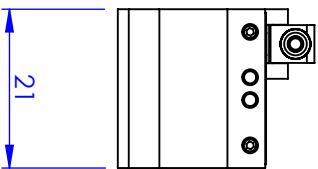
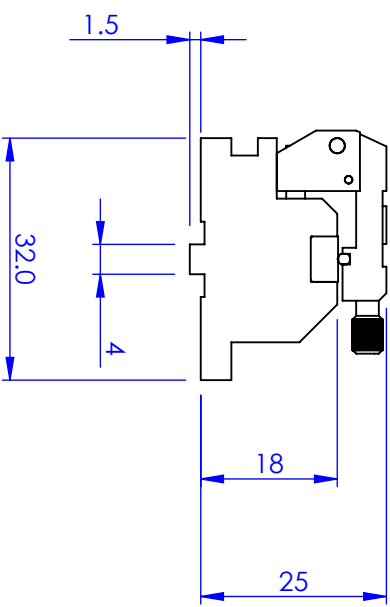
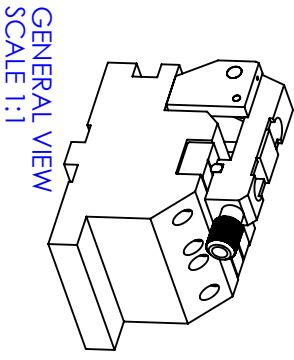
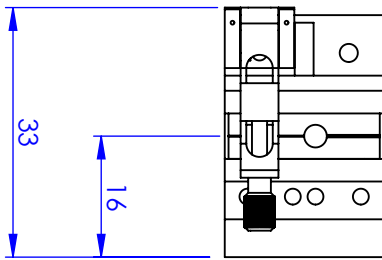
Configuration	Double V-groove single clamp arm
Fibre size	125/250 µm fibre (other sizes to order)
Fibre clamp	Single clamp arm with adjustable force
Clamp force	Adjustable from 25 to 125 g
Optical Axis	94 mm when mounted on an Elliot Gold™ series XYZ flexure stage

Options

Custom sized V-grooves

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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AUTHOR	NAME	DATE
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MATERIAL		
FINISH		

Eliot Scientific	
TITLE	
SINGLE ARM FIBRE HOLDER	
SIZE	DWG. NO.
A4	MDE709
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: Fibre Holders

MDE710 Jacketed Fibre Holder (Mechanical)



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- 125/250 µm fibre with a jacket up to 1 mm diameter
- Clamp arm swings clear of V-groove for easy loading of fibre



The model MDE710 Fibre Holder features a double V-groove and clamp arms to hold 125/250 µm fibre with a jacket up to 1 mm diameter. The clamp arms swing clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use.

The fibre holder is designed to complement the Elliot Gold™ series XYZ flexure stages, but can also be mounted on a conventional 25 mm pitch optical table using adaptor plate MDE860 or M4 post using the same adaptor.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

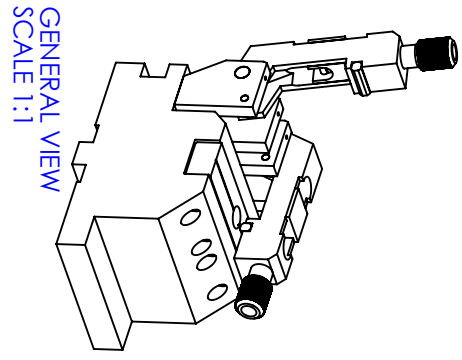
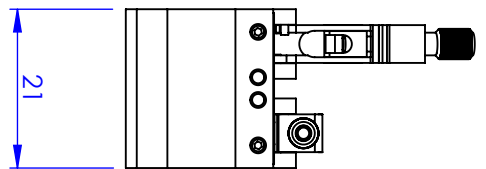
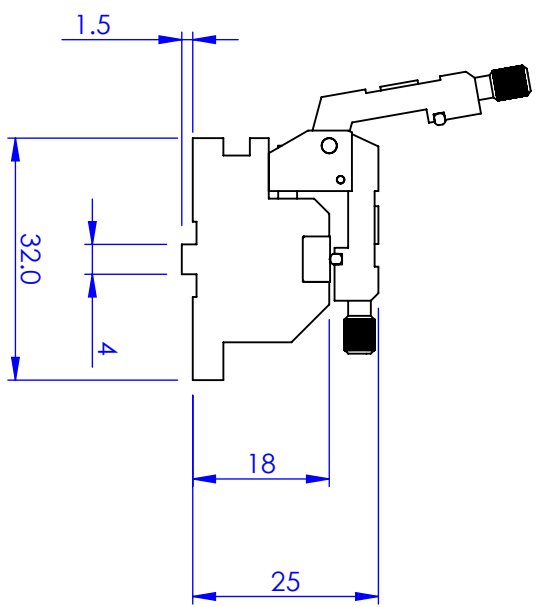
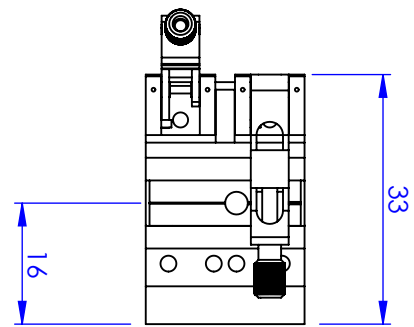
Configuration	Double V-groove and clamp arms for cladding and jacket
Fibre size	125/250 µm fibre with up to 1 mm jacket
Fibre clamp	Double clamp arms with adjustable force
Clamp force	Adjustable from 25 to 125 g
Optical Axis	94 mm when mounted on an Elliot Gold™ series XYZ flexure stage

Options

- MDE860 Adaptor
- V-groove custom sizes available
- Clamp set (Model MDE154)

For the latest price, contact us today.

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GENERAL VIEW
SCALE 1:1

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FINISH		

Eliot Scientific	
TITLE	
DOUBLE 'V' FIBRE HOLDER	
SIZE	DWG. NO.
A4	MDE710
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: Fibre Holders

MDE711 Fibre Holder



- Simple economical design
- Single fixed size V-groove for 250 µm fibre



The model MDE711 is an economical fibre holder with a machined 250 µm V-groove and magnetic clamp arm for less critical applications.

The fibre holder is designed to complement the Elliot Gold™ series XYZ flexure stages, but can also be mounted on a conventional 25 mm pitch optical table using adaptor plate MDE860 or M4 post using the same adaptor.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

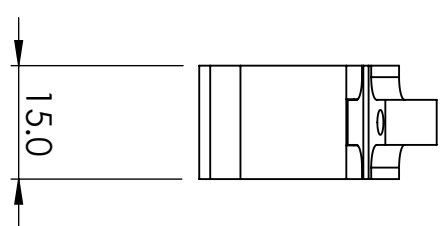
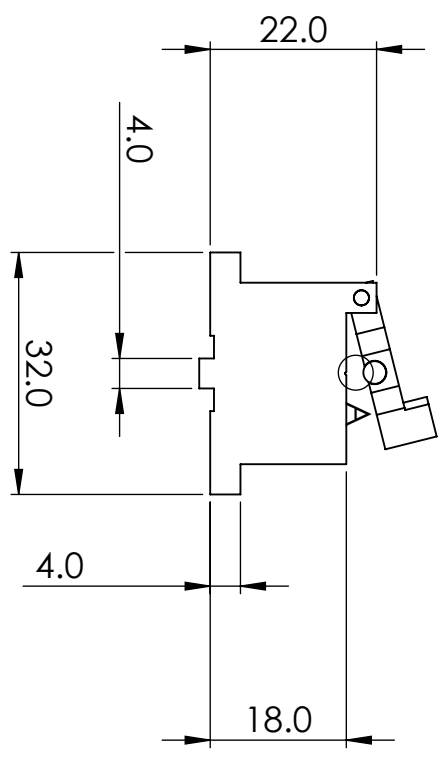
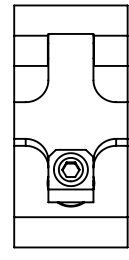
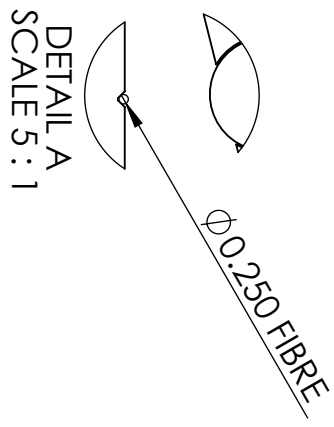
Configuration	Single machined V-groove and magnetic clamp arm
Fibre size	250 µm
Fibre clamp	Single magnetic clamp arm
Optical Axis	94 mm when mounted on an Elliot Gold™ series XYZ flexure stage

Options

Custom sized V-grooves

For the latest price, contact us today.

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MDE711

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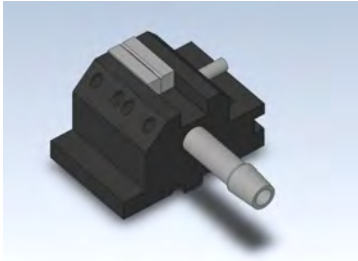
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AUTHOR	NAME	DATE
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MATERIAL		
FINISH		

TITLE	
FIBRE HOLDER	
SIZE	DWG. NO.
A4	MDE711
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: Fibre Holders

MDE715 Fibre Holder (Vacuum)



- Very easy to use
- Very low forces on fibre
- Vacuum V-groove can be dismantled for cleaning
- Holds 125 to 400 µm bare fibre
- Vacuum is applied through a fine slot for even clamping of fibre



The model MDE715 Fibre Holder is designed to cradle bare fibre ranging from 125 to 400 µm diameter. The unit utilises a slotted vacuum V-groove that holds the fibre evenly and with very low force.

The fibre holder is designed to complement the Elliot Gold™ series XYZ flexure stages, but can also be mounted on a conventional 25 mm pitch optical table using adaptor plate MDE860, or M4 post using the same adaptor.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

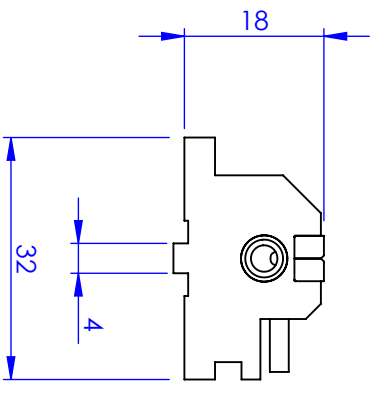
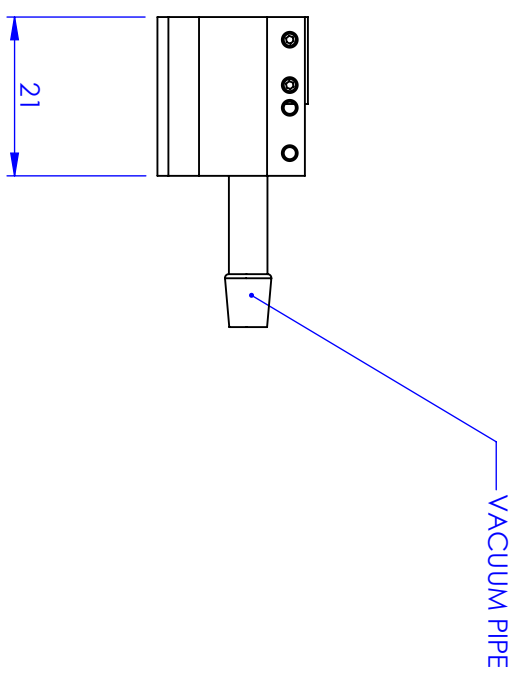
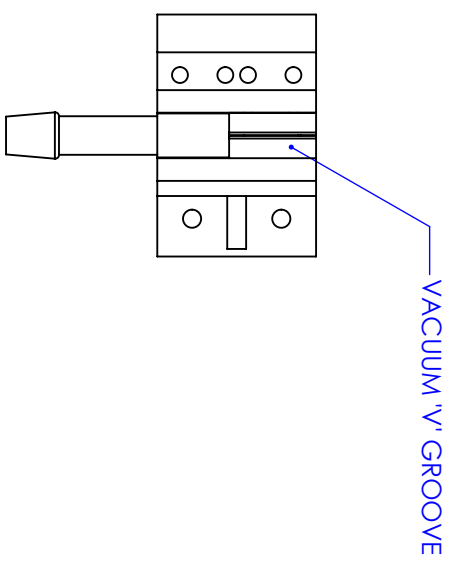
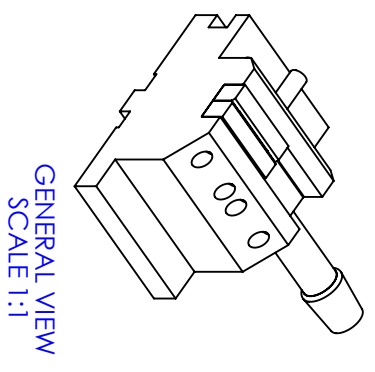
Configuration	Vacuum V for cladding only
Fibre size	125 to 400 µm diameter bare fibre
V-groove	Vacuum V-groove
Vacuum slot length	7.5 mm for even clamping of the fibre
Vacuum connection	4 mm bore pipe or M5 port
Optical Axis	94 mm when mounted on an Elliot Gold™ series XYZ flexure stage

Options

- MDE860 Adaptor
- V-groove custom sizes available
- Clamp set (Model MDE154)

For the latest price, contact us today.

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MATERIAL		
FINISH		

Elliott Scientific	
TITLE	
VACUUM FIBRE CLAMP	
SIZE	DWG. NO.
A4	MDE715
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

MDE724 Fibre Holder (Mechanical) for Melles Griot/Thorlabs Flexure Stages



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- Fits Melles Griot and Thorlabs flexure stages
- 125/250 µm fibre with a jacket up to 1 mm diameter
- Clamp arm swings clear of V-groove for easy loading of fibre



The model MDE724 Fibre Holder is designed to fit the Melles Griot/Thorlabs flexure stages and features a double V-groove and clamp arms to hold 125/250 µm fibre with a jacket up to 1 mm diameter. The clamp arms swing clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

Specifications

Configuration	Double V-groove and clamp arms for cladding and jacket
Fibre size	125/250 µm fibre with up to 1 mm jacket
Fibre clamp	Double clamp arms with adjustable force
Clamp force	Adjustable from 25 to 125 g
Optical Axis	12.5 mm centre height
Mount	Location tongue 3mm wide on base Fits Melles Griot/Thorlabs flexure stages

Options

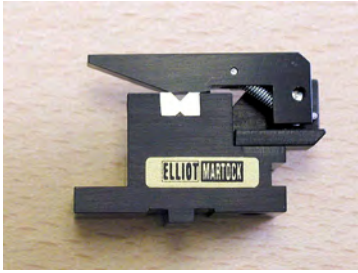
Custom sized V-grooves

For the latest price, contact us today.



Elliot Gold™ Series: Fibre Holders

MDE734 Grin Lens Holder



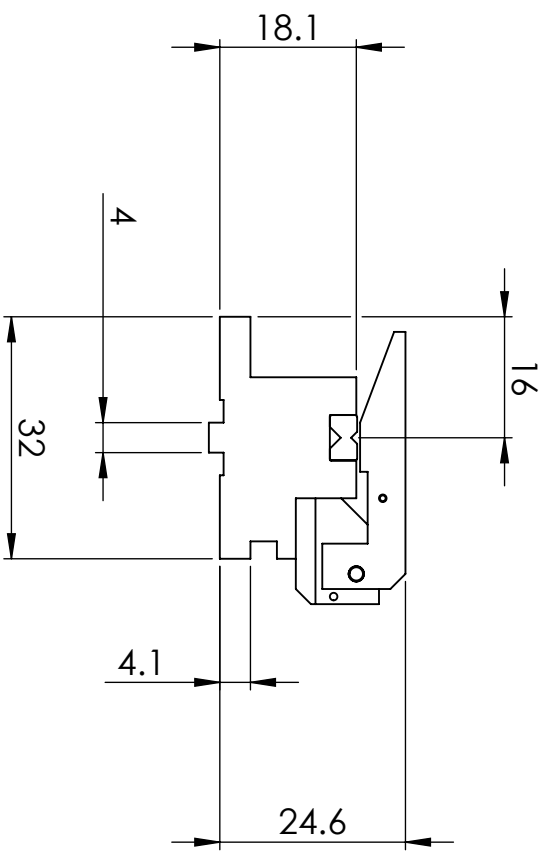
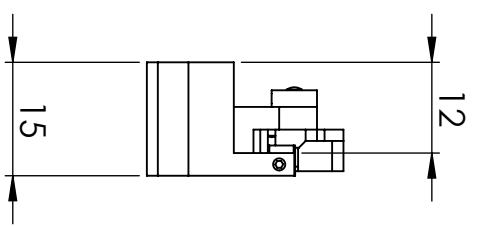
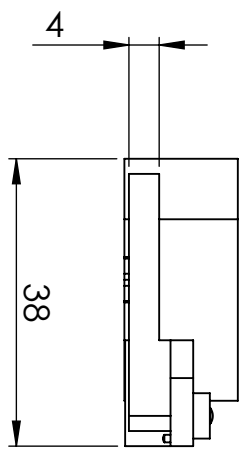
ELLIOT MARTOCK

- Optical axis height 18 mm
- Reversible V-block 4 mm long
- To hold GRIN lenses of diameter 1 - 2 mm & 2 - 3 mm

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

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MDE734

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MATERIAL		
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Eliot Scientific	
TITLE	
GRIN LENS HOLDER	
SIZE	DWG. NO.
A4	MDE734
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

DO NOT SCALE DRAWING

Elliot Gold™ Series: Fibre Holders

MDE735 Connectorised Fibre Holder FC/PC



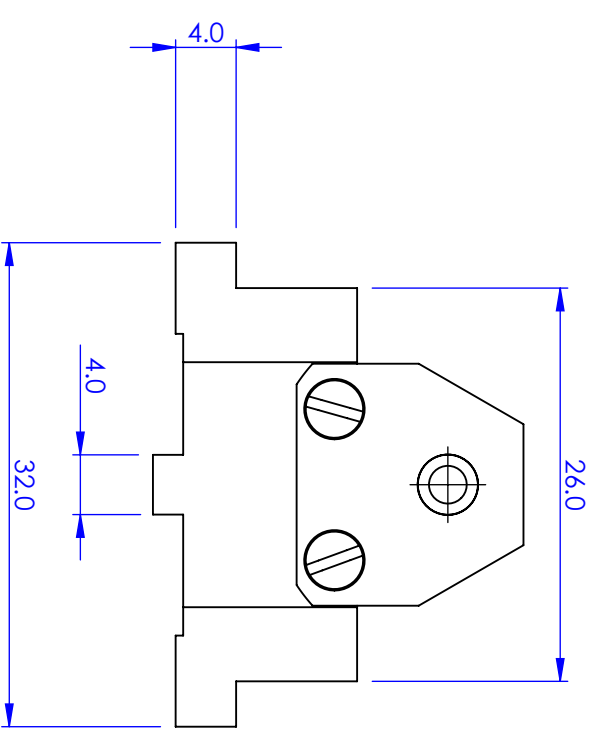
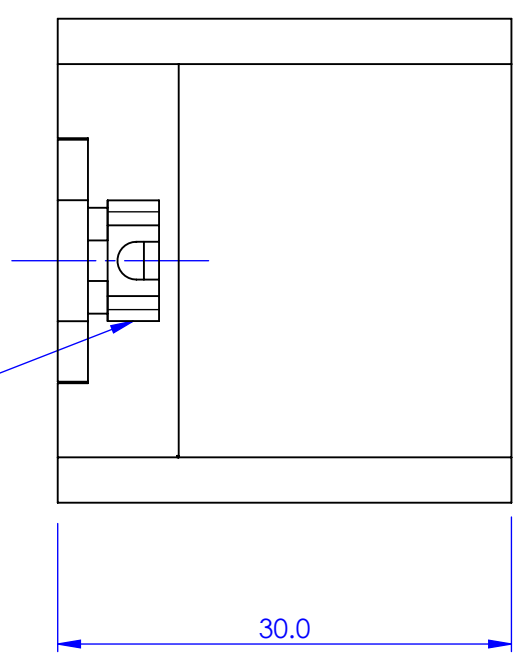
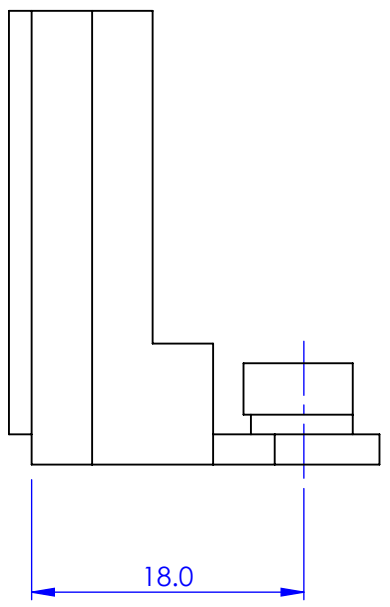
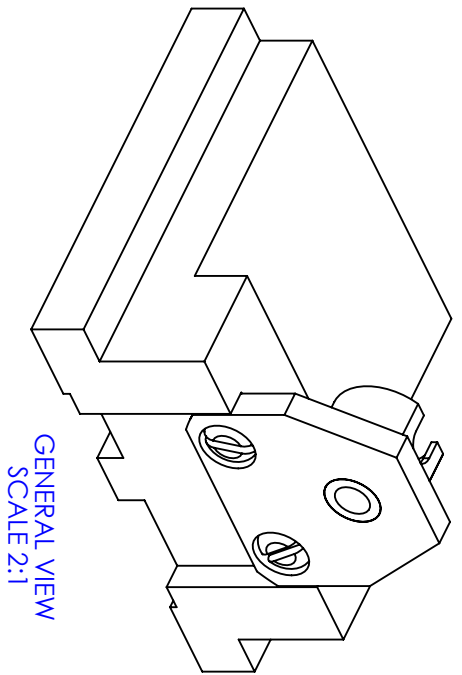
ELLIOT MARTOCK

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms.

The clamp set (MDE154) is available separately if required.

For the latest price, contact us today.

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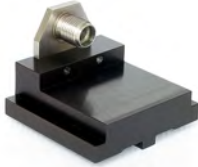
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Eliot Scientific	
TITLE CONNECTOR MOUNT FC/PC	
SIZE A4	DWG. NO. MDEF35
DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION
SCALE: 1	SHEET 1 OF 1

Elliot Gold™ Series: Fibre Holders

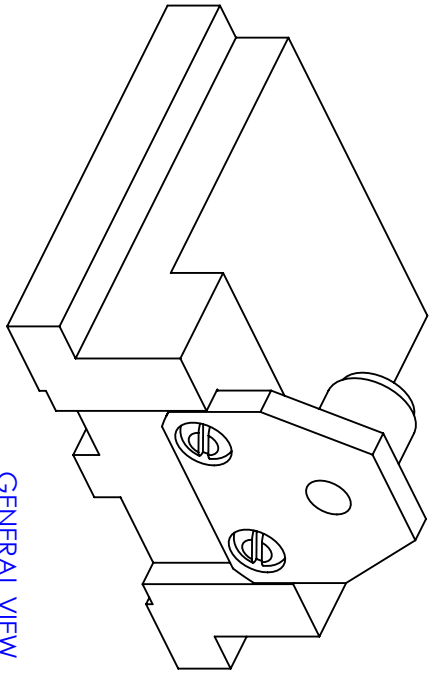
MDE736 Connectorised Fibre Holder SMA



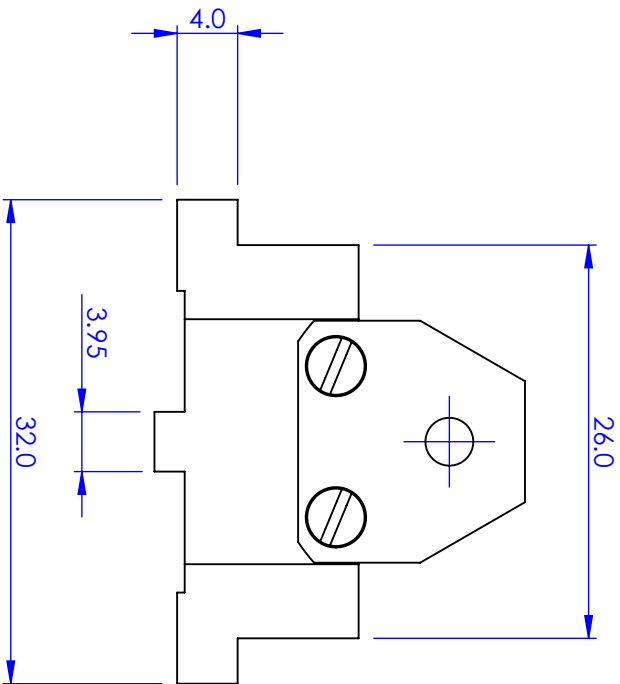
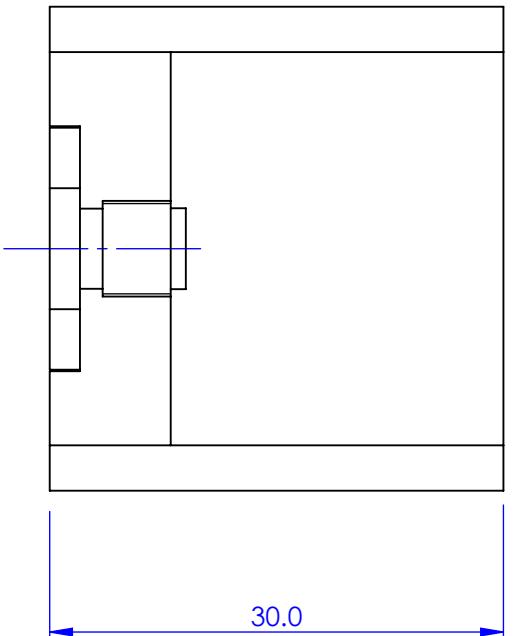
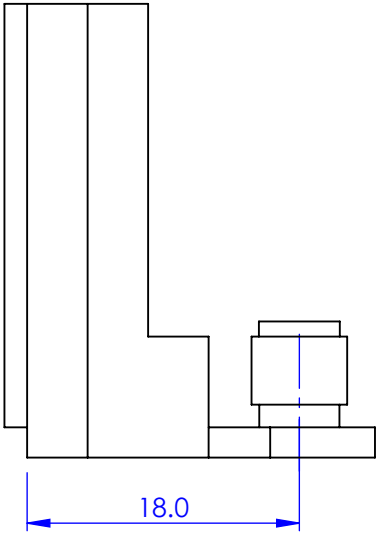
All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms.

The clamp set (MDE154) is available separately if required.

For the latest price, contact us today.



GENERAL VIEW
SCALE 2:1



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Eliot Scientific

TITLE
CONNECTOR MOUNT SMA

SIZE
A4

DWG. NO.
MDEF36

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SCALE: 2:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Fibre Holders

MDE737 Connectorised Fibre Holder ST



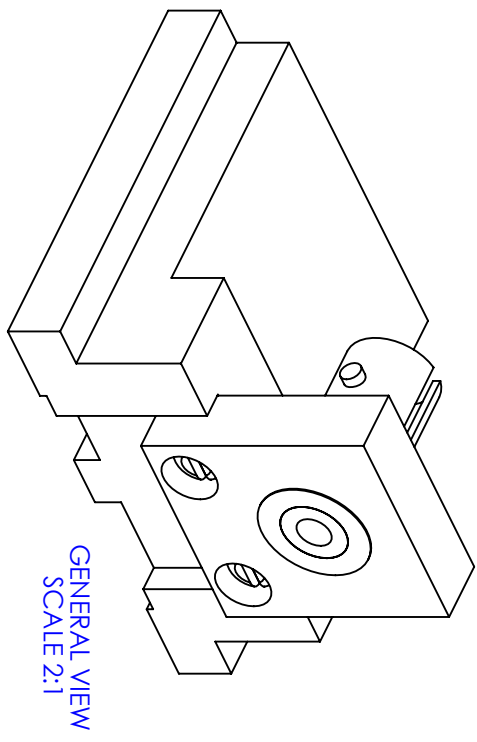
ELLIOT MARTOCK

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms.

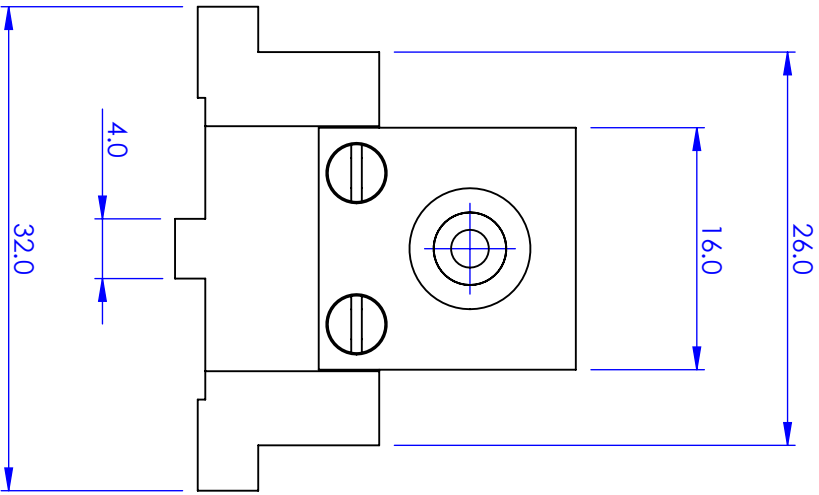
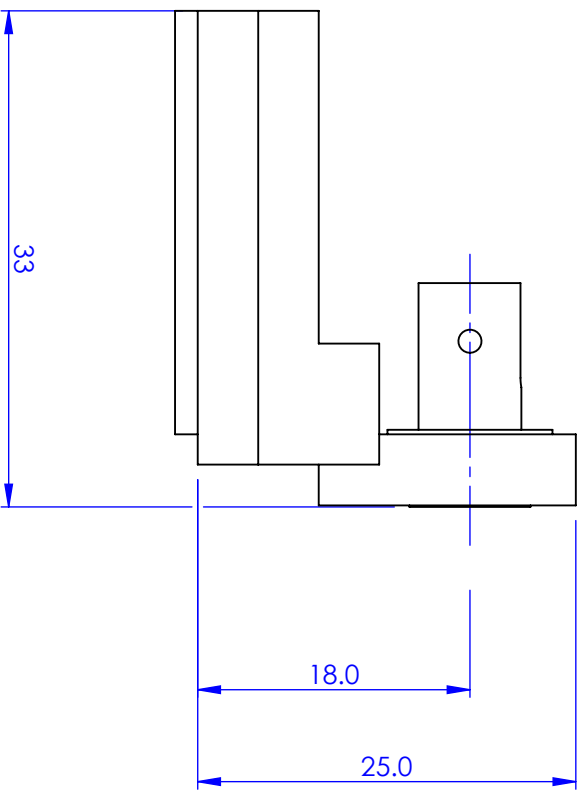
The clamp set (MDE154) is available separately if required.

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GENERAL VIEW
SCALE 2:1



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Elliott Scientific

TITLE
CONNECTOR MOUNT

SIZE
A4

DWG. NO.
MDEF37

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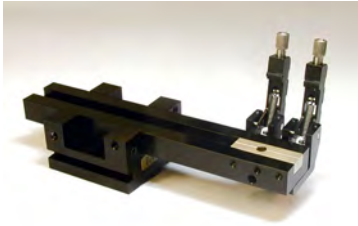
SCALE: 2:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Fibre Holders

MDE750 Bare Fibre Holder (Mechanical), Long Reach



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- 125/250 µm fibre with a jacket up to 1 mm diameter
- Fibre held in user-replaceable V-groove by spring clamps
- Clamp arm swings clear of V-groove for easy loading of fibre



Long reach fibre holder for bare fibre. Fibre held in user-replaceable V-groove by spring clamps (as on MDE710). Includes Universal Base MDE752 which allows fibres to be located offset from central axis.

The model MDE750 Fibre Holder features a double V-groove and clamp arms to hold 125/250 µm fibre with a jacket up to 1 mm diameter. The clamp arms swing clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ Series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

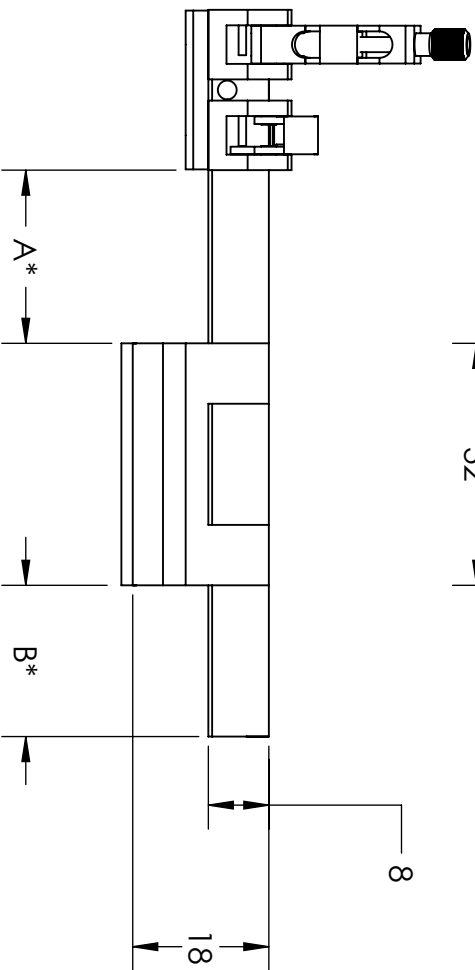
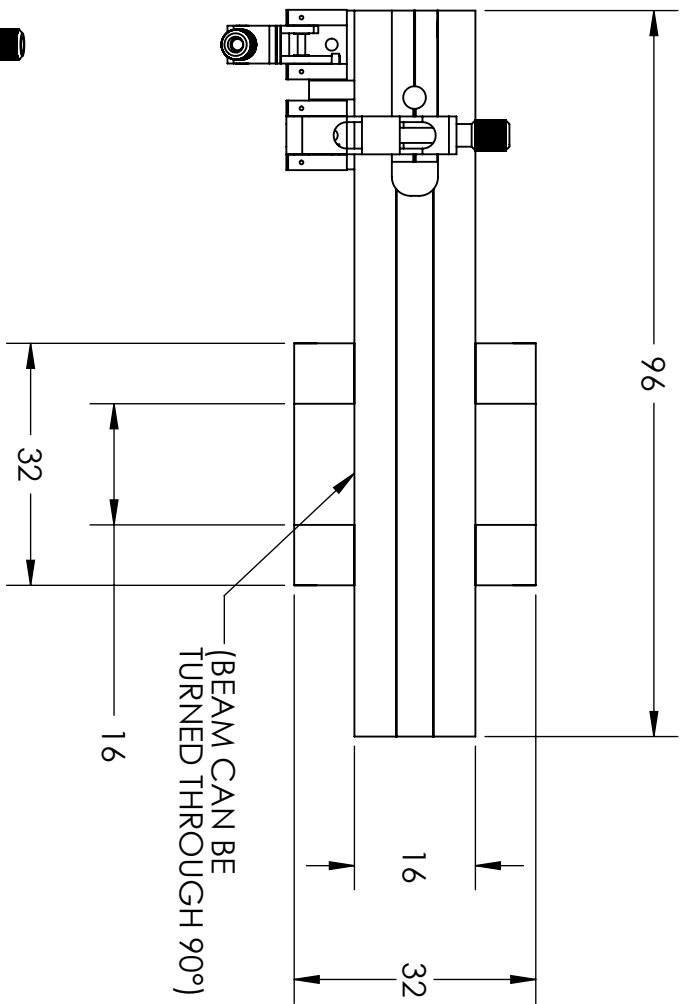
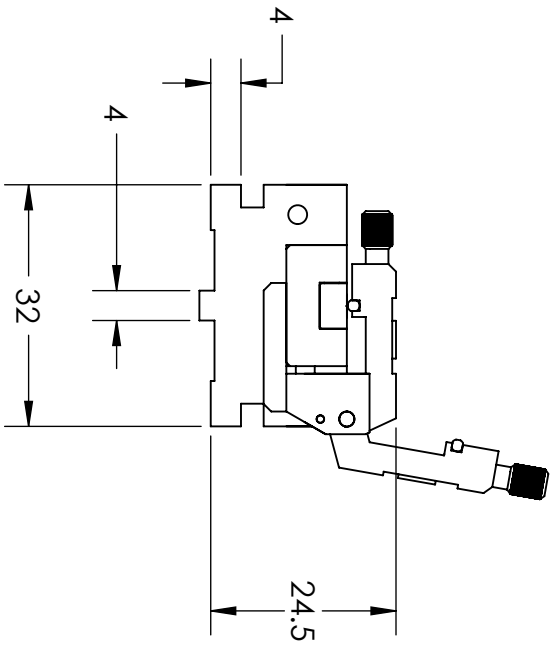
Specifications

Configuration	Double V-groove and clamp arms for cladding and jacket
Fibre size	125/250 µm fibre with up to 1mm jacket
Fibre clamp	Double clamp arms with adjustable force
Clamp force	Adjustable from 25 to 125 g

Options

Universal Base MDE752 (included)

For the latest price, contact us today.

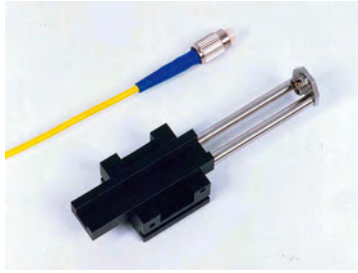


* ADJUSTABLE OVERHANG
 $A + B = 45\text{mm}$

MDE750

Elliot Gold™ Series: Fibre Holders

MDE751 FC/PC Connector Fibre Holder (Mechanical), Long Reach



- Very easy to use
- Holds standard FC/PC Patchcords
- Other connector types available
- Custom grooves available
- Fibre held in user-replaceable V-groove by spring clamps



Long reach fibre holder for FC/PC connectorised patchcords. Holds standard patchcords. Other connector types available on request. Includes Universal Base MDE752 which allows fibres to be located offset from central axis. A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ Series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

Specifications

Configuration	Long reach fibre holder for FC/PC Patchcords
Fibre size	125/250 µm fibre with up to 1mm jacket
Fibre clamp	Double clamp arms with adjustable force
Clamp force	Adjustable from 25 to 125 g

Options

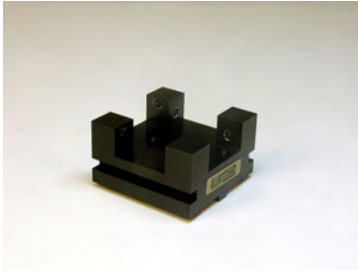
- Universal Base MDE752 (included)
- Alternative connector versions
- Clamp set (Model MDE154)

For the latest price, contact us today.



Elliot Gold™ Series: Fibre Holders

MDE752 Universal Base



ELLIOT MARTOCK

Universal base for holding components on top of flexure stages. Locates in either of the two orthogonal slots on flexure stage top plate for offset component mounting.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

For the latest price, contact us today.



Elliot Gold™ Series: Fibre Holders

MDE753 Long Reach Microscope Objective Holder



- Facilitates offset mounting of objectives
- Ideal for DWDM component inspection

ELLIOT MARTOCK

The Long Reach Microscope Objective Holder fits onto an MDE752 as shown, allowing the objective to be placed in positions offset to the optical axis. An internal RMS thread is machined for easy mounting of objectives. Recommended for DWDM component inspection.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory.

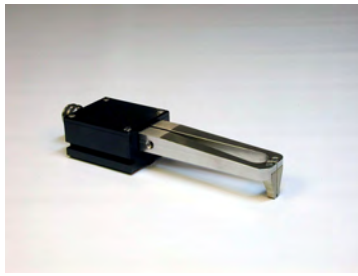
A standard clamp system is used and is supplied with the flexure stages and accessory platforms. The clamp set (MDE154) is available separately if required.

For the latest price, contact us today.



Elliot Gold™ Series: Fibre Holders

E770 Fibre Gripper



- Compact design with rapid loading and unloading feature
- Repeatable gripping force
- Minimal gripped length to maximise package accessibility
- Integrates with Elliot Gold™ series flexure stages
- Gripping arms contoured to allow a clear view and/or tool access
- Extended reach for restricted access laser diode alignment tasks
- Grips a wide range of fibre configurations from clad fibres to ferrules
- Interchangeable grips accommodate all sizes of fibre & ferrules

The E770 Fibre Gripper is designed to fit on Elliot Gold™ series flexure stages for demanding fibre alignment tasks.

Interchangeable grips accommodate a wide variety of fibre configurations ranging from clad fibres, to ferrules in excess of 3 mm diameter.

Specifications

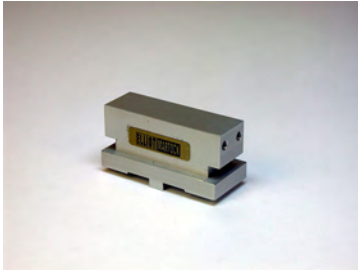
Standard Grip Size	To fit 125 µm fibre
Max Jaw Opening	10 mm
Grip Length	3.5 mm
Options and Accessories	Fibre Grips (E781-nnnn, please specify fibre diameter)
	Ferrule Grips (E782-nnnn, please specify ferrule diameter)

For the latest price, contact us today.



Elliot Gold™ Series: Waveguide Holders

MDE741-10 Basic Waveguide/Device Holder - 10 x 15 mm



- 10 mm waveguide length
- 15 mm nominal height
- Adhesive or tape mounting

ELLIOT MARTOCK

The model MDE741 series is a basic waveguide/substrate mount for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Affix device with tape or bond with adhesive.

Specifications

Length	10 mm
Height	15 mm

Options

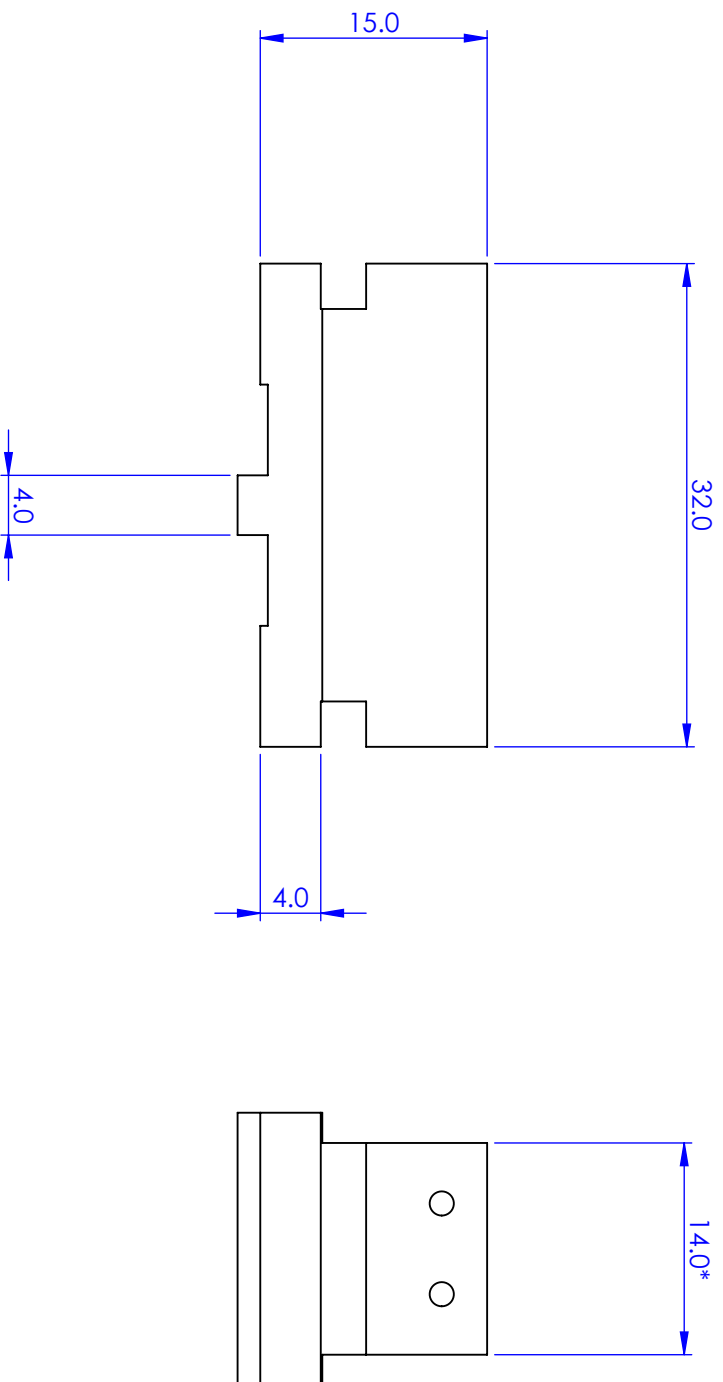
Other waveguide lengths: 14 mm and 30 mm

Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

*STANDARD WIDTHS AVAILABLE
 ARE 10mm, 14mm AND 30mm.
 ORDER MDE741/10, MDE741/14 AND MDE741/30 RESPECTIVELY



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NAME	DATE
AUTHOR GW	10/09/2010
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Elliott Scientific

TITLE
WAVEGUIDE/SUBSTRATE MOUNT

SIZE
A4

DWG. NO.
MDE741

DO NOT SCALE DRAWING

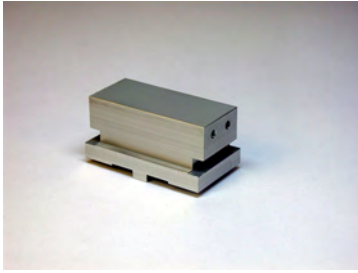
SCALE: 1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE741-14 Basic Waveguide/Device Holder - 14 x 15 mm



- 14 mm waveguide length
- 15 mm nominal height
- Adhesive or tape mounting



The model MDE741 series is a basic waveguide/substrate mount for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Affix device with tape or bond with adhesive.

Specifications

Length	14 mm
Height	15 mm

Options

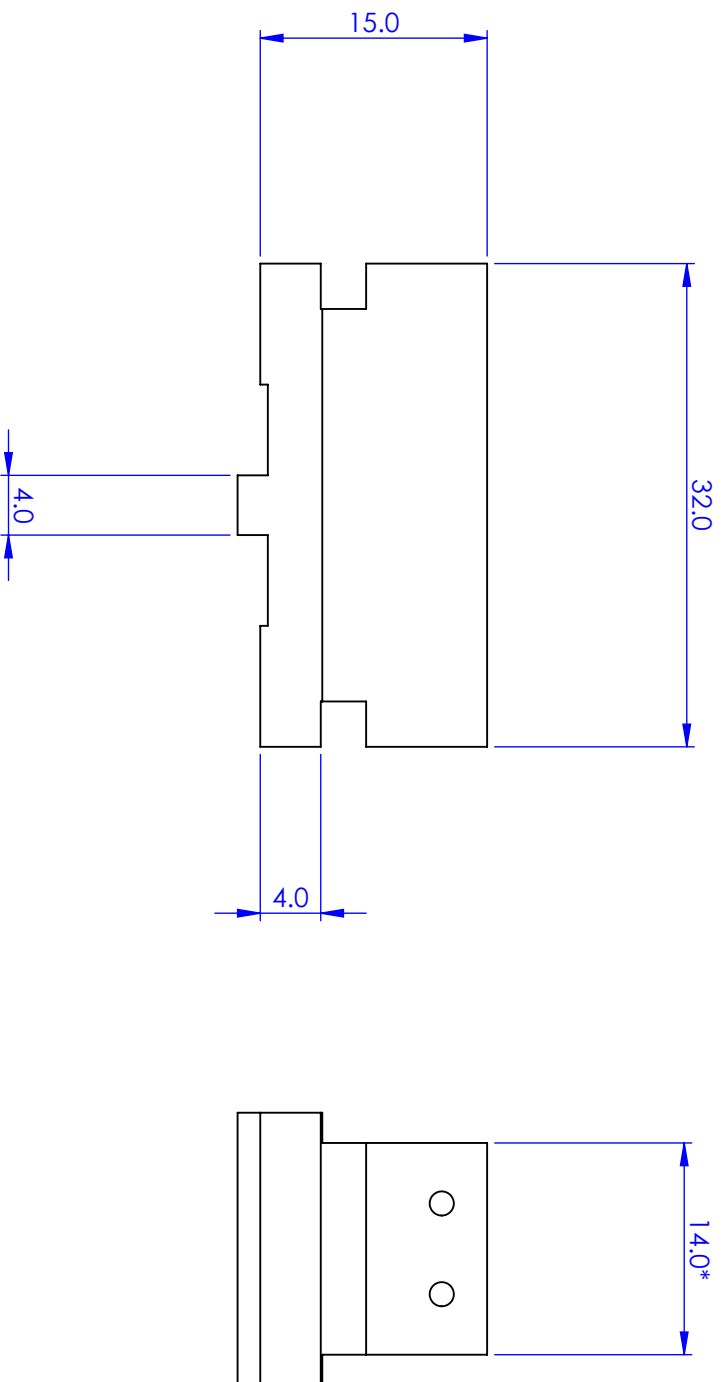
Other waveguide lengths: 10 mm and 30 mm

Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

*STANDARD WIDTHS AVAILABLE
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AUTHOR GW	10/09/2010
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Elliott Scientific

TITLE
WAVEGUIDE/SUBSTRATE MOUNT

SIZE
A4

DWG. NO.
MDE741

DO NOT SCALE DRAWING

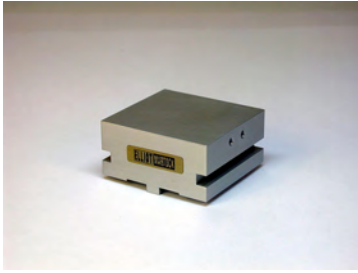
SCALE: 1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE741-30 Basic Waveguide/Device Holder - 30 x 15 mm



- 30 mm waveguide length
- 15 mm nominal height
- Adhesive or tape mounting

ELLIOT MARTOCK

The model MDE741 series is a basic waveguide/substrate mount for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Affix device with tape or bond with adhesive.

Specifications

Length	30 mm
Height	15 mm

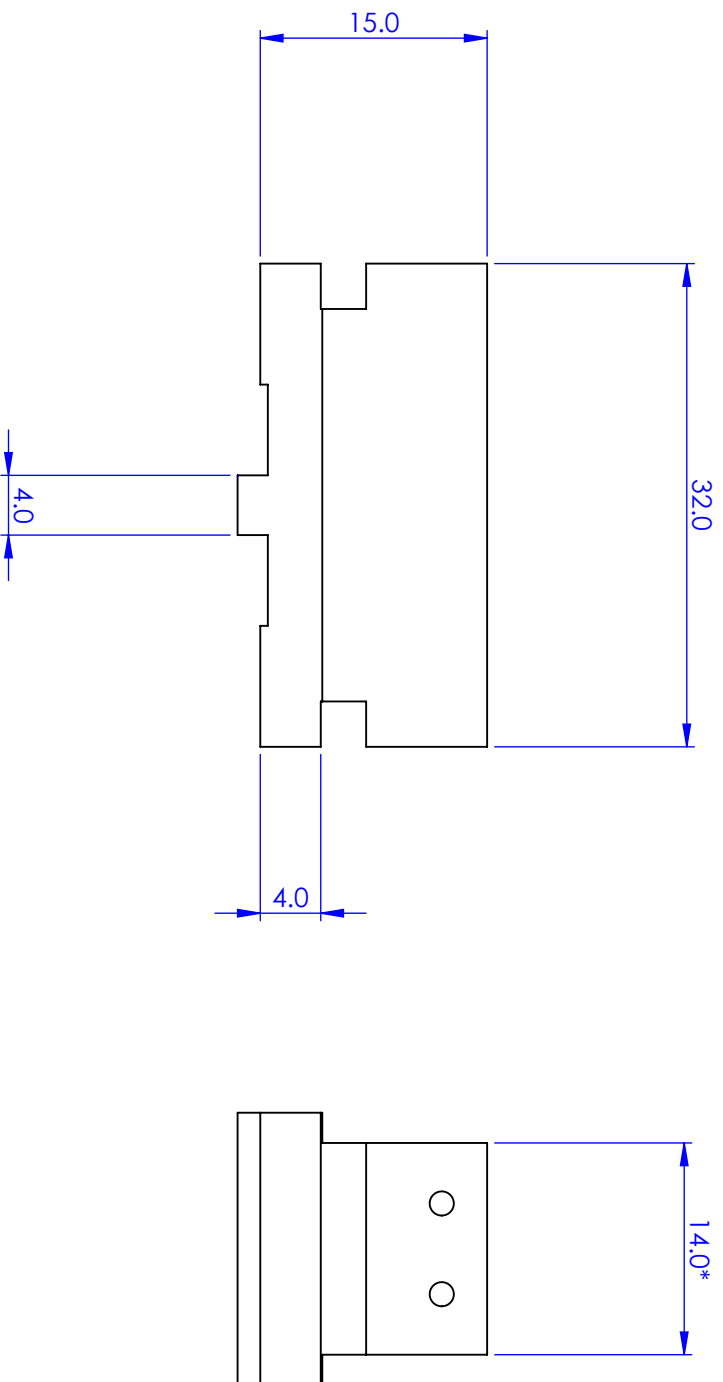
Options

Other waveguide lengths: 10 mm and 14 mm
Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

*STANDARD WIDTHS AVAILABLE
 ARE 10mm, 14mm AND 30mm.
 ORDER MDE741/10, MDE741/14 AND MDE741/30 RESPECTIVELY



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Elliott Scientific

TITLE
WAVEGUIDE/SUBSTRATE MOUNT

SIZE
A4

DWG. NO.
MDE741

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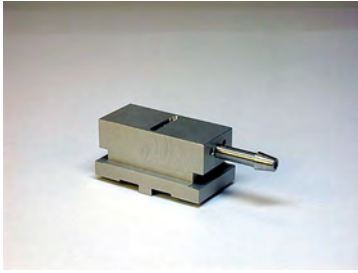
SCALE: 1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE742-10 Vacuum Waveguide/Device Holder - 10 x 15 mm



- 10 mm waveguide length
- 15 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application



The model MDE742 series is a vacuum waveguide mount for central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Vacuum hold-down groove cut to suit application.

Specifications

Length	10 mm
Height	15 mm

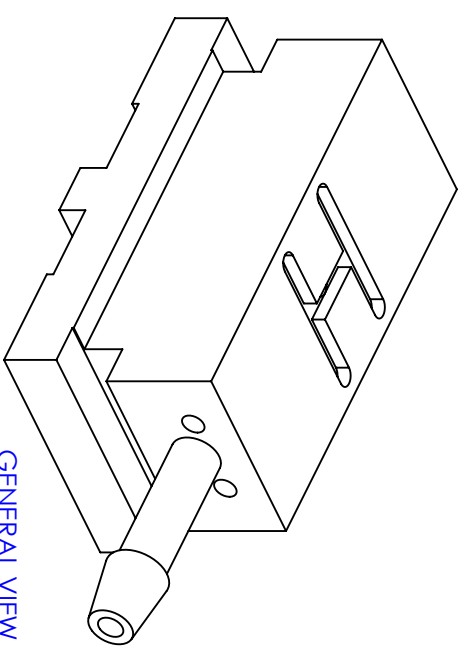
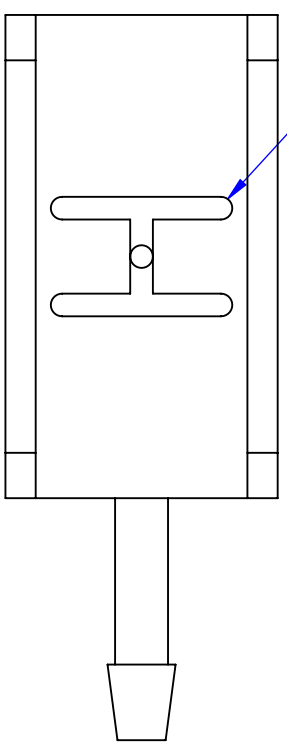
Options

Other waveguide lengths: 14 mm and 30 mm
Alternative mounting: adhesive/tape or mechanical clamp

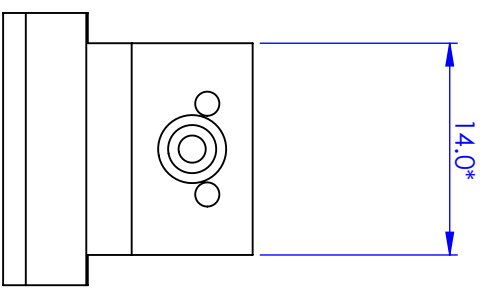
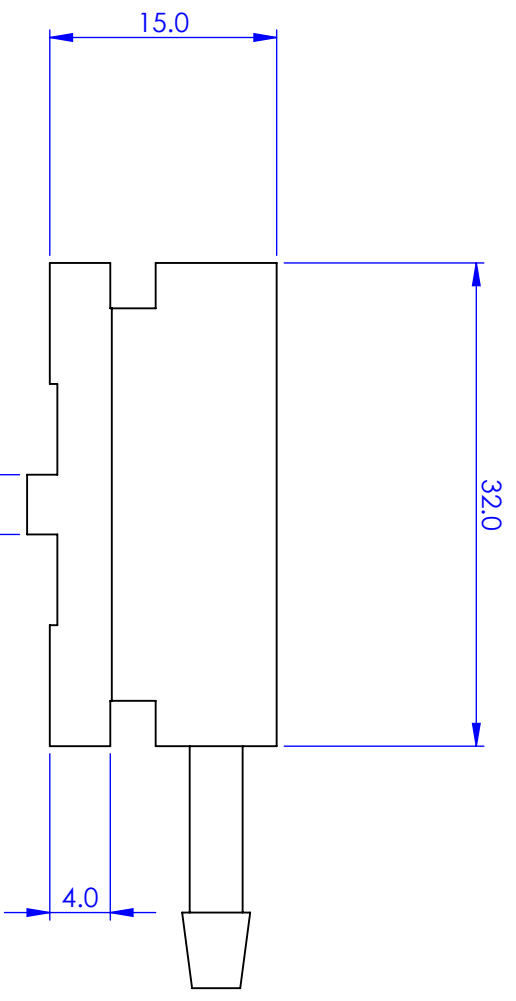
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REV.	DESCRIPTION		

SHAPE AND SIZE OF VACUUM CUT-OUT CAN BE CUSTOMISED



GENERAL VIEW
SCALE 2:1



*STANDARD WIDTHS AVAILABLE ARE 10mm, 14mm AND 30mm.
ORDER MDE742/10, MDE742/14 AND MDE742/30 RESPECTIVELY



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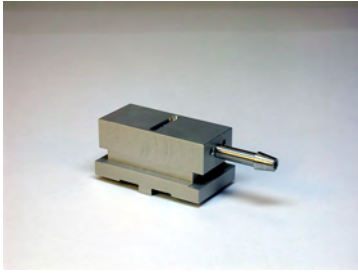
TITLE
VACUUM WAVEGUIDE MOUNT

SIZE **A4** DWG. NO. **MDE742**

DO NOT SCALE DRAWING SCALE: 1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE742-14 Vacuum Waveguide/Device Holder - 14 x 15 mm



- 14 mm waveguide length
- 15 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application



The model MDE742 series is a vacuum waveguide mount for central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Vacuum hold-down groove cut to suit application.

Specifications

Length	14 mm
Height	15 mm

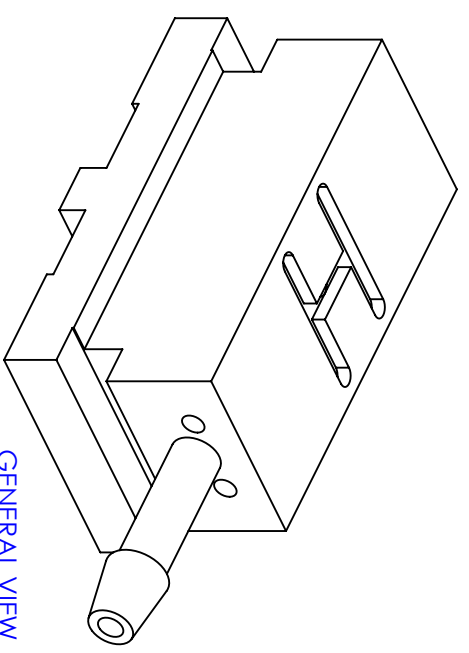
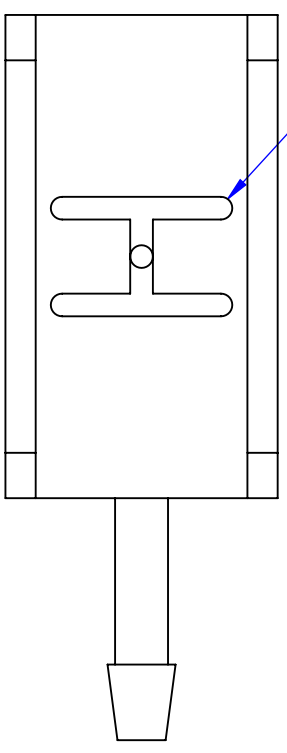
Options

Other waveguide lengths: 10 mm and 30 mm
Alternative mounting: adhesive/tape or mechanical clamp

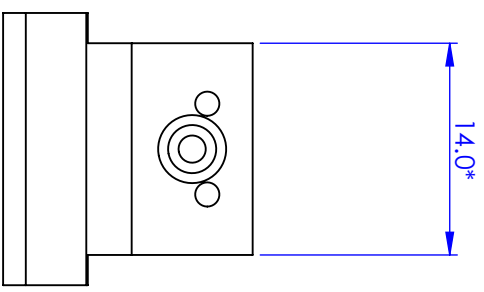
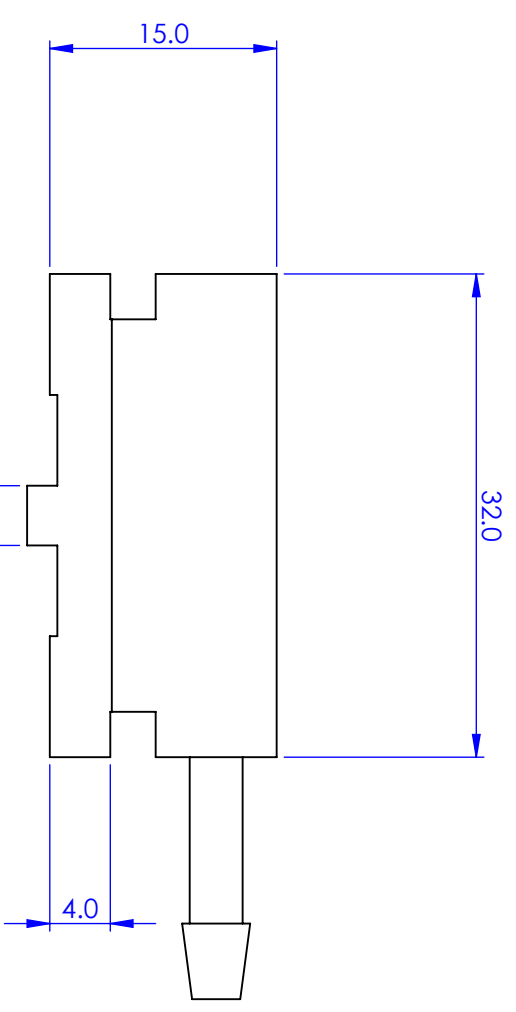
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SHAPE AND SIZE OF VACUUM CUT-OUT CAN BE CUSTOMISED



GENERAL VIEW
SCALE 2:1



*STANDARD WIDTHS AVAILABLE ARE 10mm, 14mm AND 30mm.
ORDER MDE742/10, MDE742/14 AND MDE742/30 RESPECTIVELY



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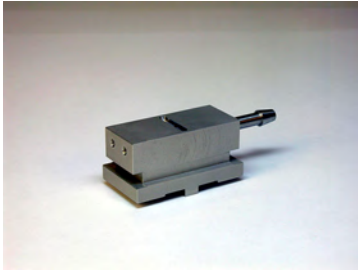
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TITLE VACUUM WAVEGUIDE MOUNT	
SIZE A4	DWG. NO. MDE742
SCALE: 1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: Waveguide Holders

MDE742-30 Vacuum Waveguide/Device Holder - 30 x 15 mm



- 30 mm waveguide length
- 15 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application



The model MDE742 series is a vacuum waveguide mount for central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets. Vacuum hold-down groove cut to suit application.

Specifications

Length	30 mm
Height	15 mm

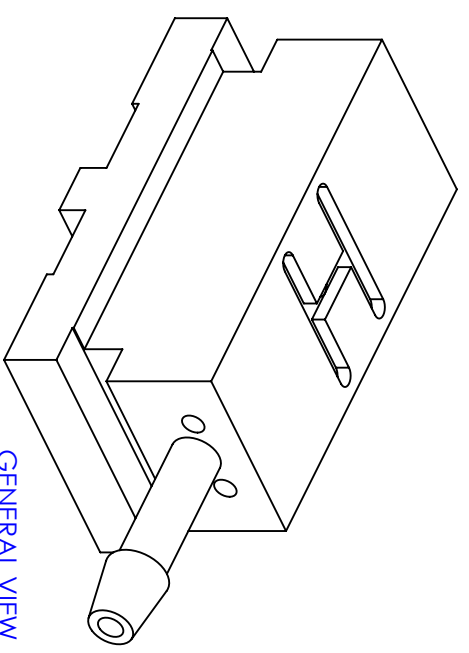
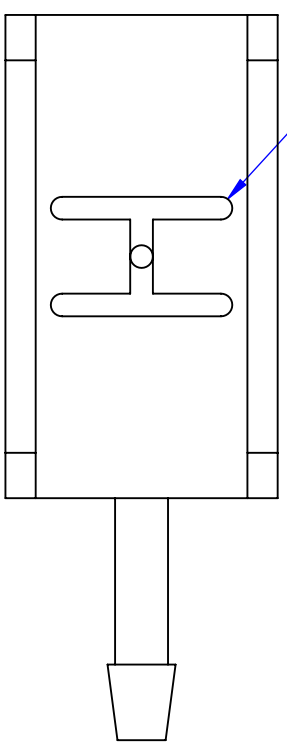
Options

Other waveguide lengths: 10 mm and 14 mm
Alternative mounting: adhesive/tape or mechanical clamp

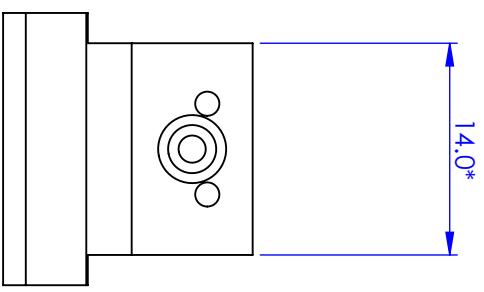
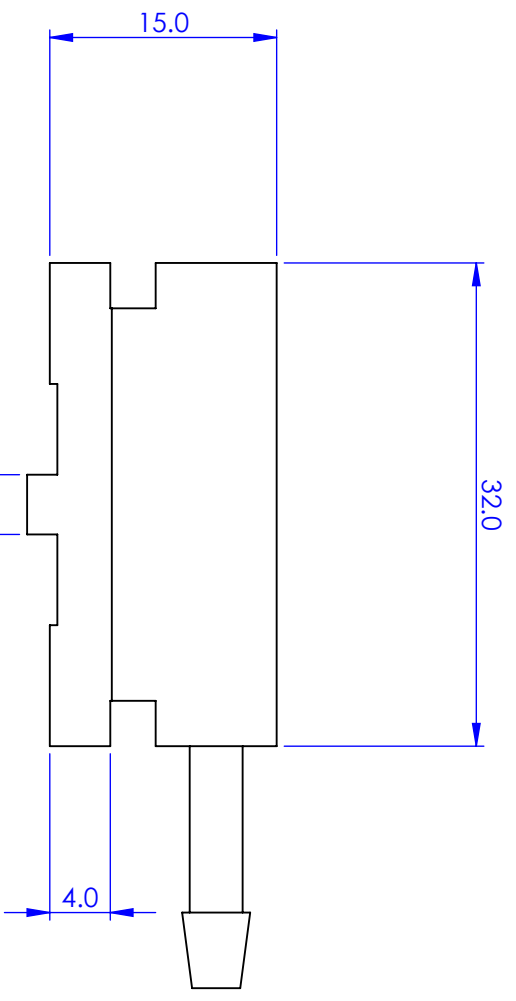
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REV.	DESCRIPTION		

SHAPE AND SIZE OF VACUUM CUT-OUT CAN BE CUSTOMISED



GENERAL VIEW
SCALE 2:1



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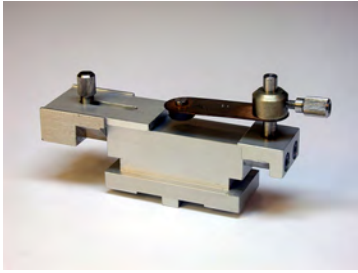
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		TITLE
		VACUUM WAVEGUIDE MOUNT
SIZE A4	DWG. NO. MDE742	
SCALE: 1	THIRD ANGLE PROJECTION	SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE743-10 Mechanical Waveguide/Device Holder - 10 x 15 mm



- 10 mm waveguide length
- 15 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop

ELLIOT MARTOCK

The model MDE743 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets.

Specifications

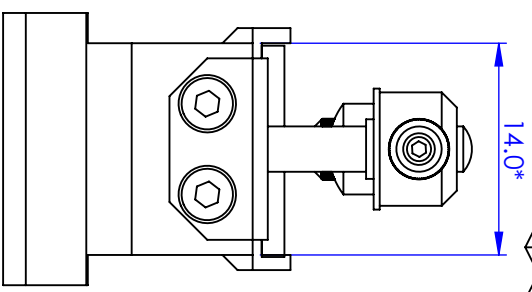
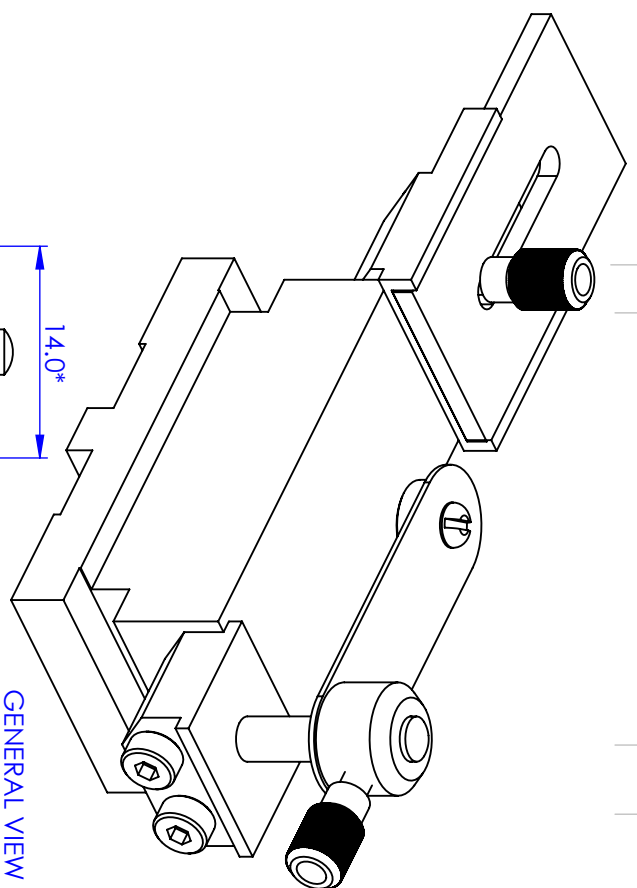
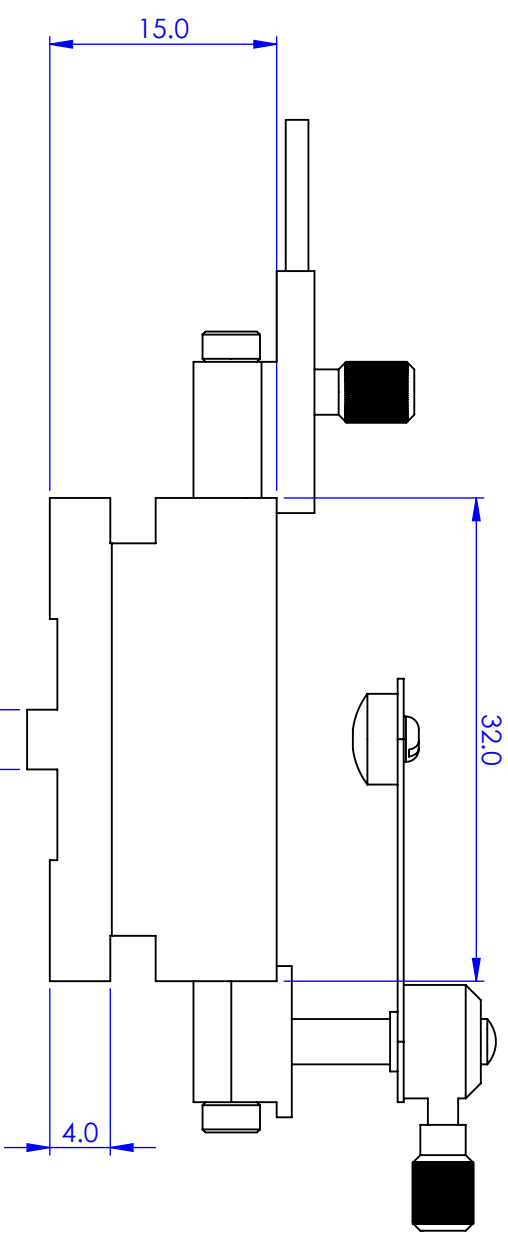
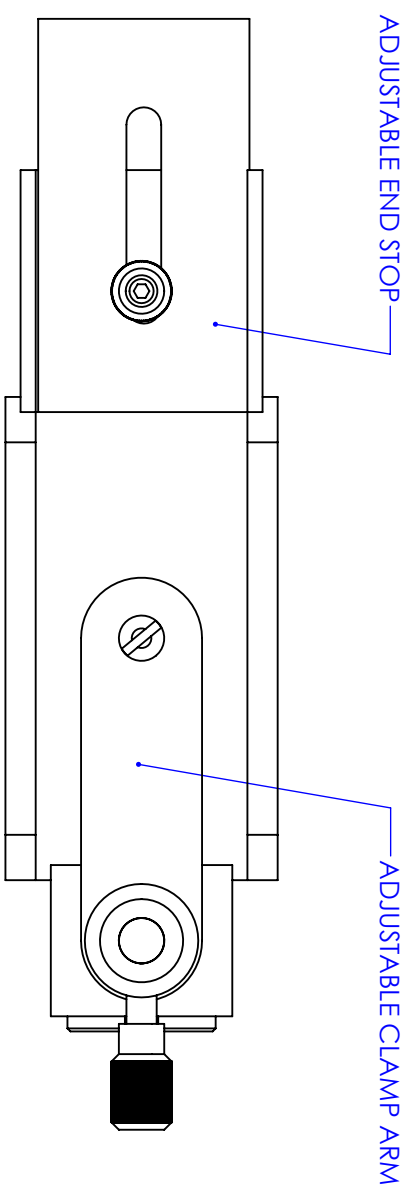
Length	10 mm
Height	15 mm

Options

Other waveguide lengths: 14 mm and 30 mm
Alternative mounting: adhesive/tape or vacuum

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



*STANDARD WIDTHS AVAILABLE
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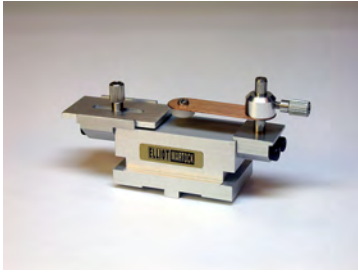
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Elliott Scientific	
TITLE WAVEGUIDE MOUNT WITH CLAMP	
SIZE A4	DWG. NO. MDE743
SCALE: 1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Elliot Gold™ Series: Waveguide Holders

MDE743-14 Mechanical Waveguide/Device Holder - 14 x 15 mm



- 14 mm waveguide length
- 15 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop

ELLIOT MARTOCK

The model MDE743 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets.

Specifications

Length	14 mm
Height	15 mm

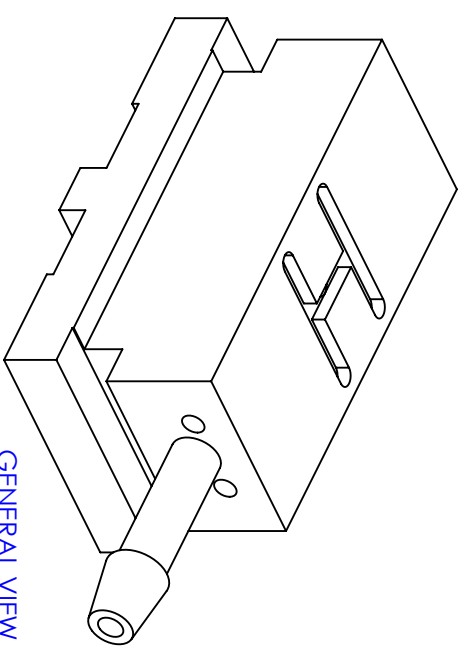
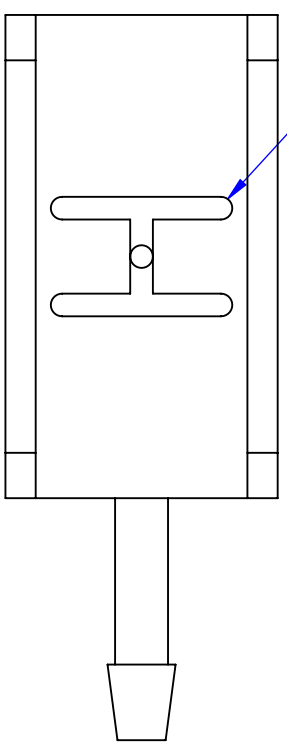
Options

Other waveguide lengths: 10 mm and 30 mm
Alternative mounting: adhesive/tape or vacuum

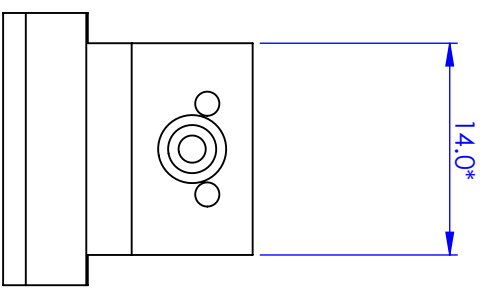
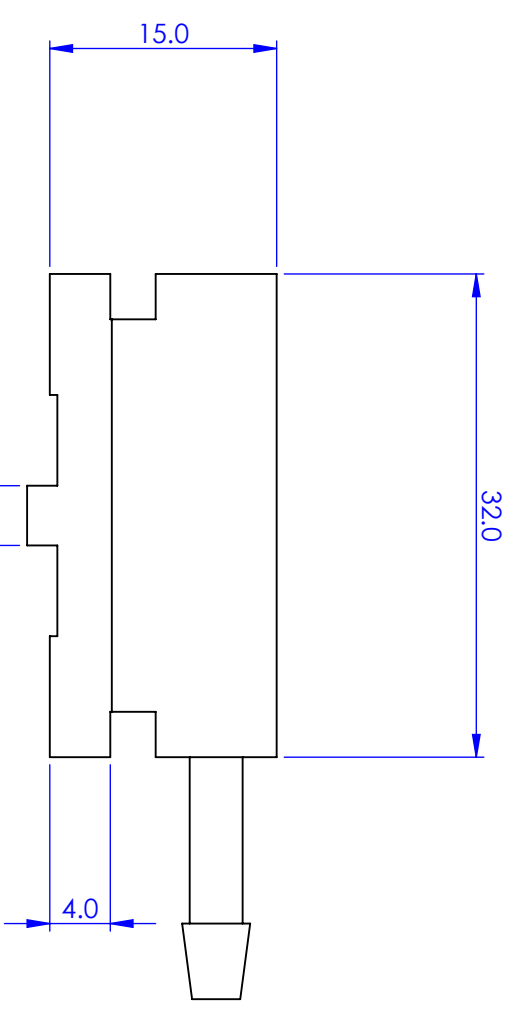
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REV.	DESCRIPTION		

SHAPE AND SIZE OF VACUUM CUT-OUT CAN BE CUSTOMISED



GENERAL VIEW
SCALE 2:1



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Eliot Scientific

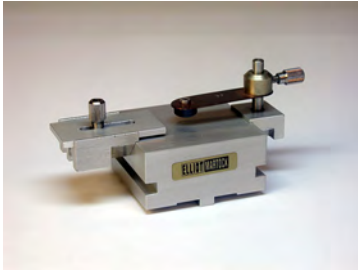
TITLE
VACUUM WAVEGUIDE MOUNT

SIZE **A4** DWG. NO. **MDE742**

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Elliot Gold™ Series: Waveguide Holders

MDE743-30 Mechanical Waveguide/Device Holder - 30 x 15 mm



- 30 mm waveguide length
- 15 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop

ELLIOT MARTOCK

The model MDE743 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with the central workstations MDE881 and MDE883, and for Elliot Gold™ series flexure stages. Also fits MDE147, MDE148 and MDE149 brackets.

Specifications

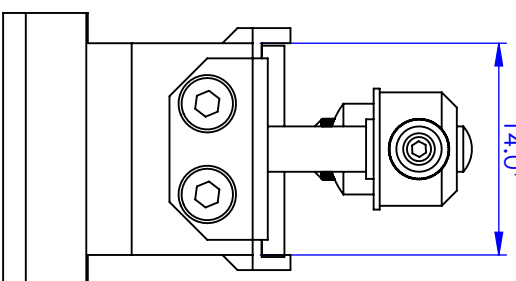
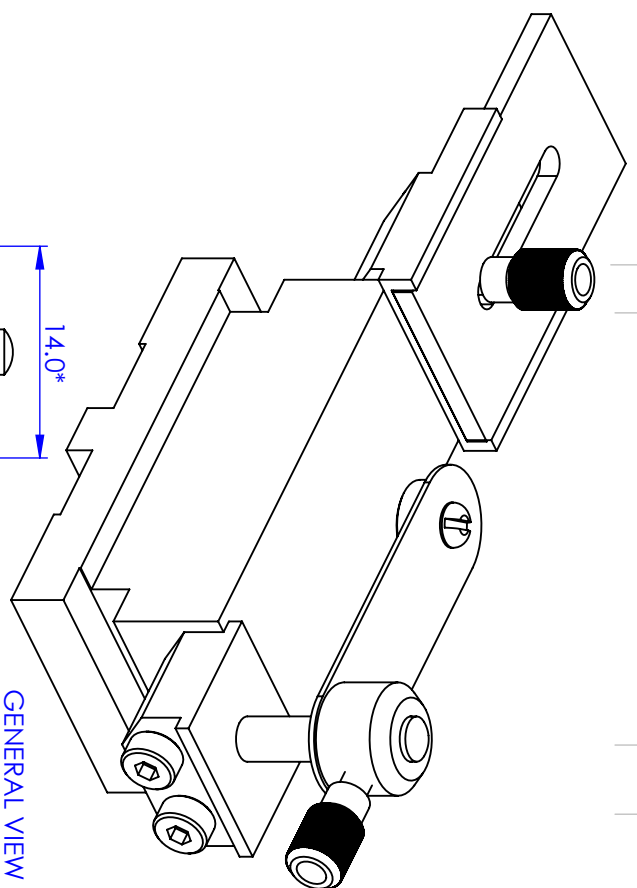
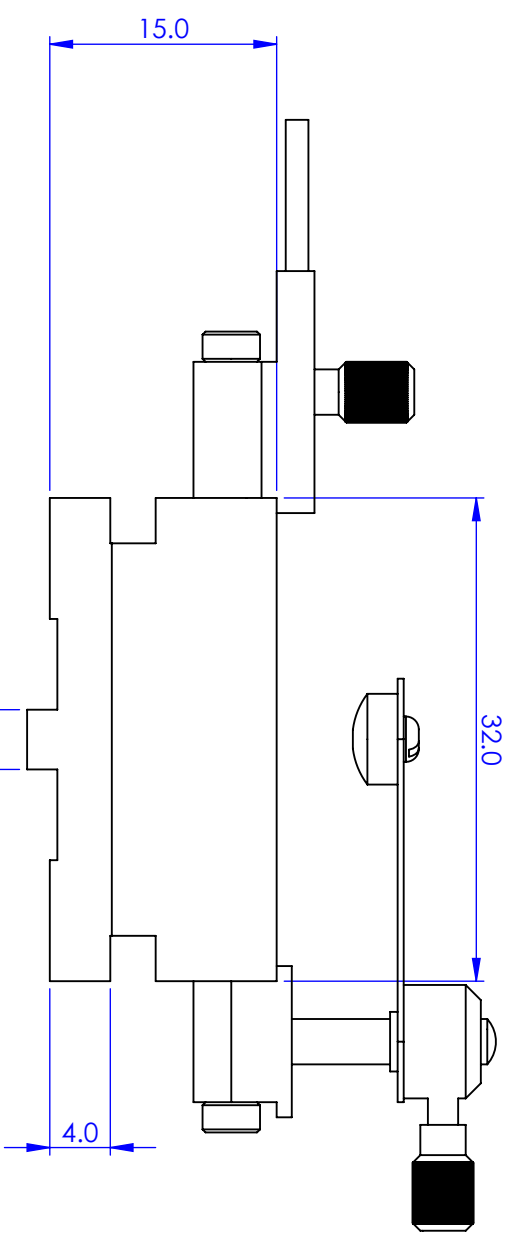
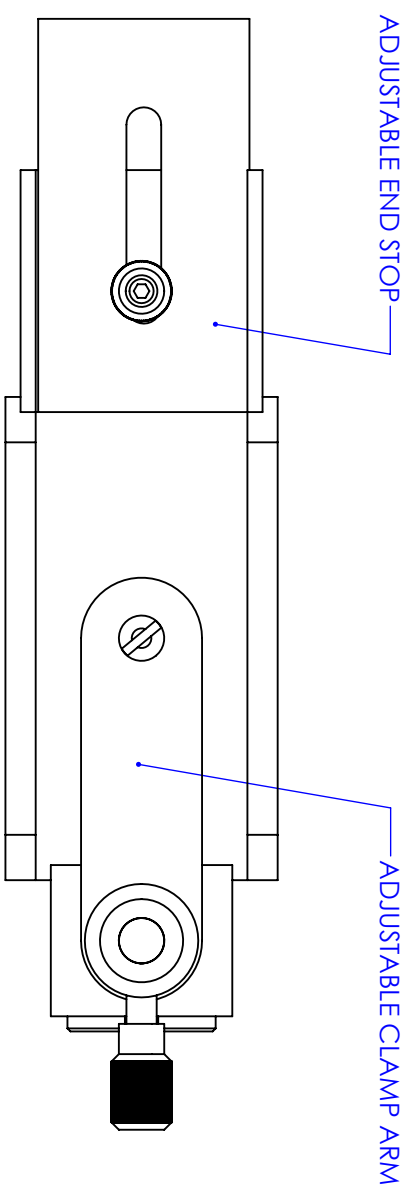
Length	30 mm
Height	15 mm

Options

Other waveguide lengths: 10 mm and 14 mm
Alternative mounting: adhesive/tape or vacuum

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



*STANDARD WIDTHS AVAILABLE
ARE 10mm, 14mm AND 30mm.
ORDER MDE743/10, MDE743/14 AND MDE743/30 RESPECTIVELY



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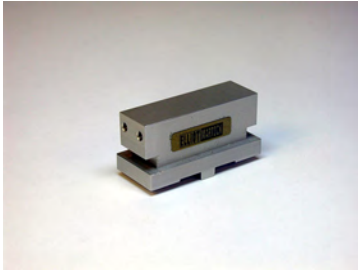
DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: ±
SURFACE FINISH:
ALL BURRS, SHARP EDGES
AND CORNERS TO BE
REMOVED

NAME	DATE
AUTHOR	10/09/2010
CHECKED	

Elliott Scientific	
TITLE WAVEGUIDE MOUNT WITH CLAMP	
SIZE A4	DWG. NO. MDE743
SCALE: 1	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	SHEET 1 OF 1

Elliot Gold™ Series: Waveguide Holders

MDE744-10 Basic Waveguide/Device Holder - 10 x 18 mm



- 10 mm waveguide length
- 18 mm nominal height
- Adhesive or tape mounting



The model MDE744 series is a basic waveguide/substrate mount for use with MDE717 and MDE718 fibre rotators. These models feature an increased mounting height of 18 mm which matches the working height of the rotators. Affix device with tape or bond with adhesive.

Specifications

Length	10 mm
Height	18 mm

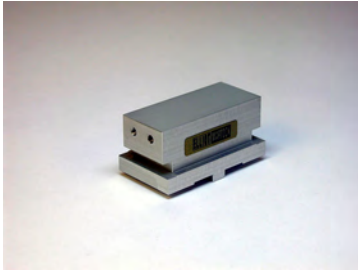
Options

Other waveguide lengths: 14 mm and 30 mm
Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE744-14 Basic Waveguide/Device Holder - 14 x 18 mm



- 14 mm waveguide length
- 18 mm nominal height
- Adhesive or tape mounting

ELLIOT MARTOCK

The model MDE744 series is a basic waveguide/substrate mount for use with MDE717 and MDE718 fibre rotators. These models feature an increased mounting height of 18 mm which matches the working height of the rotators. Affix device with tape or bond with adhesive.

Specifications

Length	14 mm
Height	18 mm

Options

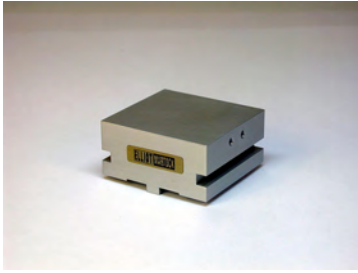
Other waveguide lengths: 10 mm and 30 mm

Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE744-30 Basic Waveguide/Device Holder - 30 x 18 mm



- 30 mm waveguide length
- 18 mm nominal height
- Adhesive or tape mounting

ELLIOT MARTOCK

The model MDE744 series is a basic waveguide/substrate mount for use with MDE717 and MDE718 fibre rotators. These models feature an increased mounting height of 18 mm which matches the working height of the rotators. Affix device with tape or bond with adhesive.

Specifications

Length	30 mm
Height	18 mm

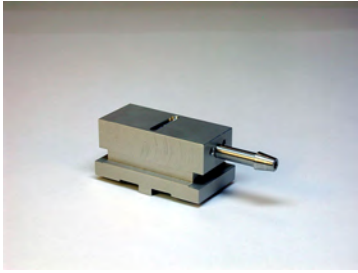
Options

Other waveguide lengths: 10 mm and 14 mm
Alternative mounting: vacuum or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE745-10 Vacuum Waveguide/Device Holder - 10 x 18 mm



- 10 mm waveguide length
- 18 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application

ELLIOT MARTOCK

Specifications

Length	10 mm
Height	18 mm

Options

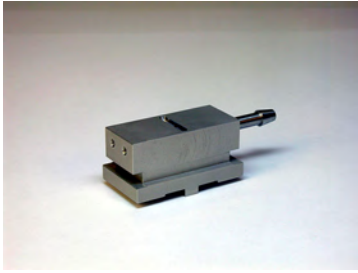
Other waveguide lengths: 14 mm and 30 mm

Alternative mounting: adhesive/tape or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE745-14 Vacuum Waveguide/Device Holder - 14 x 18 mm



- 14 mm waveguide length
- 18 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application

ELLIOT MARTOCK

Specifications

Length	14 mm
Height	18 mm

Options

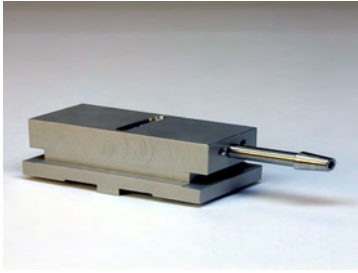
Other waveguide lengths: 10 mm and 30 mm

Alternative mounting: adhesive/tape or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE745-30 Vacuum Waveguide/Device Holder - 30 x 18 mm



- 30 mm waveguide length
- 18 mm nominal height
- Vacuum mounting
- Hold-down groove custom cut for application

ELLIOT MARTOCK

Specifications

Length	30 mm
Height	18 mm

Options

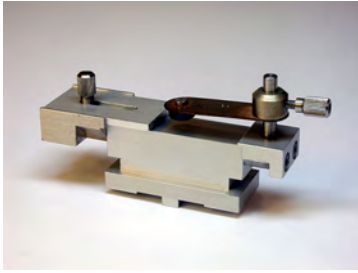
Other waveguide lengths: 10 mm and 14 mm

Alternative mounting: adhesive/tape or mechanical clamp

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE746-10 Mechanical Waveguide/Device Holder - 10 x 18 mm



- 10 mm waveguide length
- 18 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop

ELLIOT MARTOCK

The model MDE746 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with MDE717 and MDE718 fibre rotators. The model MDE746 features an increased mounting height of 18 mm which matches the working height of the rotators.

Specifications

Length	10 mm
Height	18 mm

Options

Other waveguide lengths: 14 mm and 30 mm
Alternative mounting: adhesive/tape or vacuum

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE746-14 Mechanical Waveguide/Device Holder - 14 x 18 mm



- 14 mm waveguide length
- 18 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop

ELLIOT MARTOCK

The model MDE746 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with MDE717 and MDE718 fibre rotators. The model MDE746 features an increased mounting height of 18 mm which matches the working height of the rotators.

Specifications

Length	14 mm
Height	18 mm

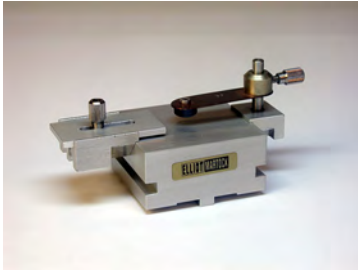
Options

Other waveguide lengths: 10 mm and 30 mm
Alternative mounting: adhesive/tape or vacuum

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE746-30 Mechanical Waveguide/Device Holder - 30 x 18 mm



- 30 mm waveguide length
- 18 mm nominal height
- Mechanical clamp mounting
- Adjustable end stop



The model MDE746 series is a waveguide/substrate mount with mechanical clamp arm and adjustable end-stop for use with MDE717 and MDE718 fibre rotators. The model MDE746 features an increased mounting height of 18 mm which matches the working height of the rotators.

Specifications

Length	30 mm
Height	18 mm

Options

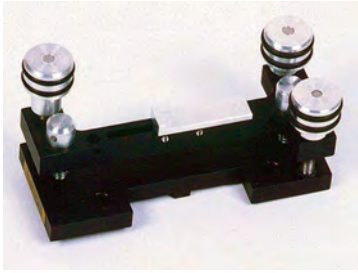
Other waveguide lengths: 10 mm and 14 mm
Alternative mounting: adhesive/tape or vacuum

For the latest price, contact us today.



Elliot Gold™ Series: Waveguide Holders

MDE747 Waveguide Mount with Pitch, Roll & Height Adjust



- Angular travel $\pm 3^\circ$
- Optical axis height 15 mm ± 3 mm
- Waveguide mount slides & clamps in Y direction 12 mm
- Mechanical clamp arm from MDE743 may be fitted to stage
- Fits on flexure stages and MDE147, MDE148, and MDE149
- brackets



Waveguide mount with kinematic adjustment of pitch and roll, plus height. Short length allows access with microscope objectives for free space coupling. Adjustable location ridge allows substrate to be placed parallel along optical axis.

Specifications

Y-Travel of waveguide mount	12 mm
Optical Axis Height	15 mm ± 3 mm
Angular Adjustment Pitch	$\pm 3^\circ$
Roll	$\pm 3^\circ$

Options

Mechanical clamp arm from MDE743

For the latest price, contact us today.

Elliot Scientific

Elliot Gold™ Series: Waveguide Holders

MDE890 Waveguide Mount with θ y and X Adjust



- X-axis travel 16 mm
- Angular resolution 1 arc second
- Attaches to MDE881 and MDE883 Central Workstation
- θ y has 360° coarse rotation with $\pm 1^\circ$ fine adjustment



Attaches to central platform of MDE881 or any Elliot/Martock flexure stage. θ y has 360° of coarse adjustment, with $\pm 1^\circ$ rotation to 1 arc second resolution. The spindle assembly can slide in the X-direction by 16 mm along a precision dovetail and is locked in place with two screws. Customer or Elliot to machine mounting block supplied to suit requirements.

Specifications

θ y Rotation	360° coarse adjustment, $\pm 1^\circ$ fine adjustment
Angular resolution	1 arc second
X-Adjustment	16 mm on precision dovetail with locking screws

Options

Machining of mounting block to suit requirements

For the latest price, contact us today.

Elliot Gold™ Series: Waveguide Holders

MDE891 Waveguide Mount with θ_y plus X & Y Adjust



- X-axis travel: 16 mm
- Z-axis travel: + 8/- 2 mm relative to spindle
- Angular resolution 1 arc second
- Attaches to MDE881 and MDE883 Central Workstation
- θ_y has 10° coarse rotation with $\pm 1^\circ$ fine adjustment



Attaches to central platform of MDE881 or any Elliot/Martock flexure stage. θ_y has 10° of coarse adjustment, with $\pm 1^\circ$ rotation to 1 arc second resolution. The spindle assembly can slide in the X-direction by 16 mm along a precision dovetail and is locked in place with two screws. The Y-adjustment is limited to + 8/- 2 mm travel relative to spindle. Customer or Elliot to machine mounting block supplied to suit requirements.

Specifications

θ_y Rotation	10° coarse adjustment, $\pm 1^\circ$ fine adjustment
Angular resolution	1 arc second
X-Adjustment	16 mm on precision dovetail with locking screws
Z-Adjustment	+ 8/- 2 mm relative to spindle

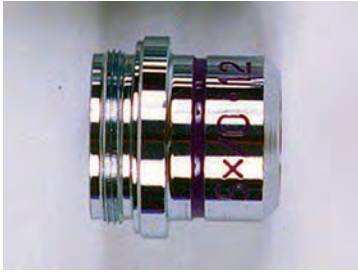
Options

Machining of mounting block to suit requirements

For the latest price, contact us today.

Elliot Gold™ Series: Microscope Objectives

MDE170 Microscope Achromatic Objective x4



- x4 Magnification
- BBAR Coated
- RMS 0.800"-36 Mounting Thread



Specifications

Magnification	x4
Numerical Aperture	0.12
Working Distance	22 mm
Anti-reflection coating	Broadband AR coated for visible wavelength range
Mounting Thread	RMS 0.800"-36

For the latest price, contact us today.

Elliot Gold™ Series: Microscope Objectives

MDE172 Microscope Achromatic Objective x10



- x10 Magnification
- BBAR Coated
- RMS 0.800"-36 Mounting Thread

ELLIOT MARTOCK

Specifications

Magnification	x10
Numerical Aperture	0.25
Working Distance	6.5 mm
Anti-reflection coating	Broadband AR coated for visible wavelength range
Mounting Thread	RMS 0.800"-36

For the latest price, contact us today.

Elliot Gold™ Series: Microscope Objectives

MDE173 Microscope Achromatic Objective x20



- x20 Magnification
- BBAR Coated
- RMS 0.800"-36 Mounting Thread



Specifications

Magnification	x20
Numerical Aperture	0.40
Working Distance	1.3 mm
Anti-reflection coating	Broadband AR coated for visible wavelength range
Mounting Thread	RMS 0.800"-36

For the latest price, contact us today.

Elliot Gold™ Series: Microscope Objectives

MDE174 Microscope Achromatic Objective x40



- x40 Magnification
- BBAR Coated
- RMS 0.800"-36 Mounting Thread

ELLIOT MARTOCK

Specifications

Magnification	x40
Numerical Aperture	0.65
Working Distance	0.6 mm
Anti-reflection coating	Broadband AR coated for visible wavelength range
Mounting Thread	RMS 0.800"-36

For the latest price, contact us today.

Elliot Gold™ Series: Microscope Objectives

MDE176 Microscope Achromatic Objective x60



- x60 Magnification
- BBAR Coated
- RMS 0.800"-36 Mounting Thread



Specifications

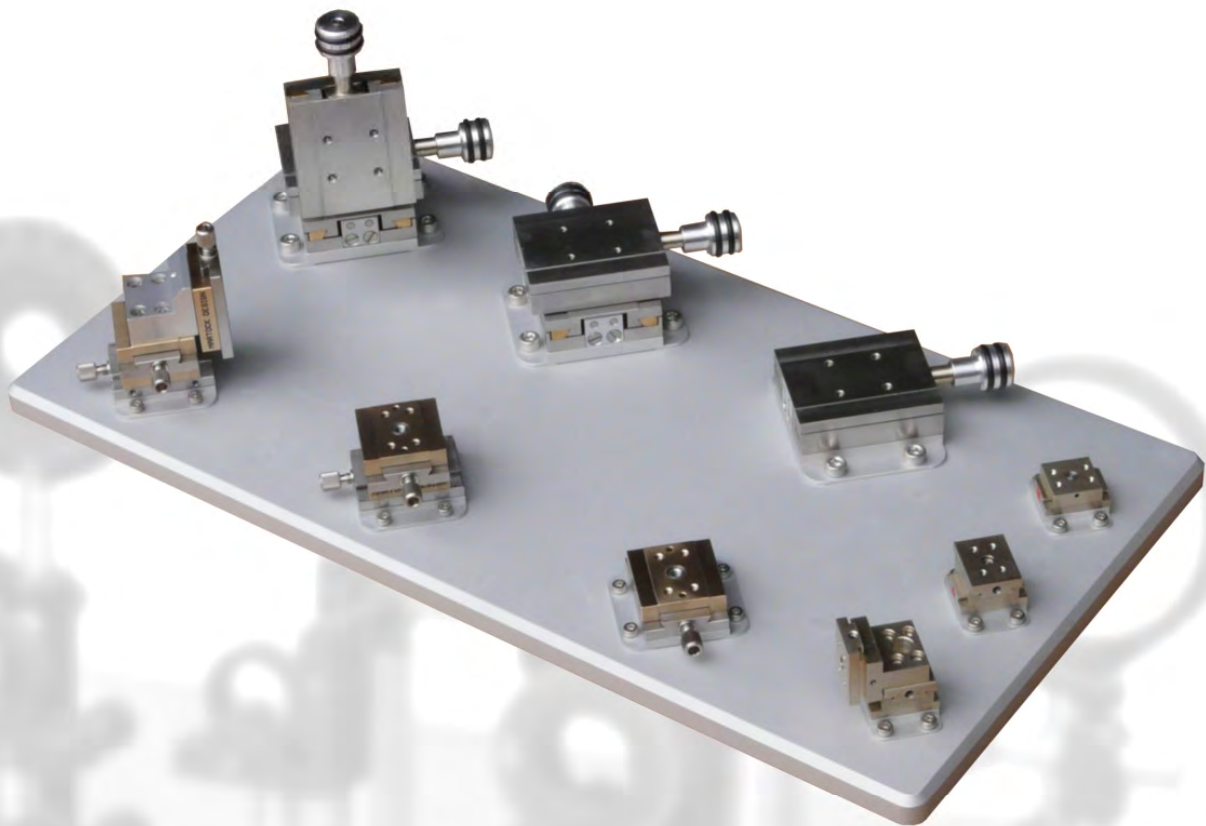
Magnification	x60
Numerical Aperture	0.85
Working Distance	0.18 mm
Anti-reflection coating	Broadband AR coated for visible wavelength range
Mounting Thread	RMS 0.800"-36

For the latest price, contact us today.



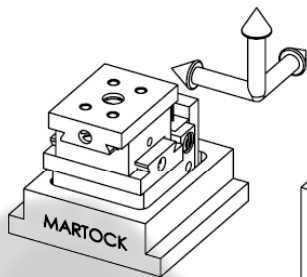
Opto-Mechanics 2012

Manual Positioners

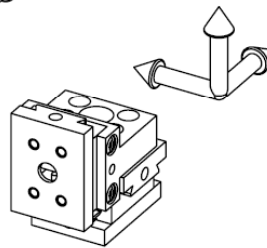




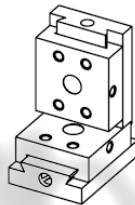
Ultra Small Linear Stages



MDE267



MDE269



MDE268



MDE266



MDE265

Elliot Scientific

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE265 Single Axis Ultra-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Very Small dovetail slide series
- One of the smallest micropositioners available



Specifications

Travel	3 mm
Sensitivity	< 0.5 μ m
Adjuster	0.25 pitch with 1.27 mm hex socket
Top plate	12 x 12 mm
Mounting holes	Four M1.6 x 2 mm deep on both sides

Options

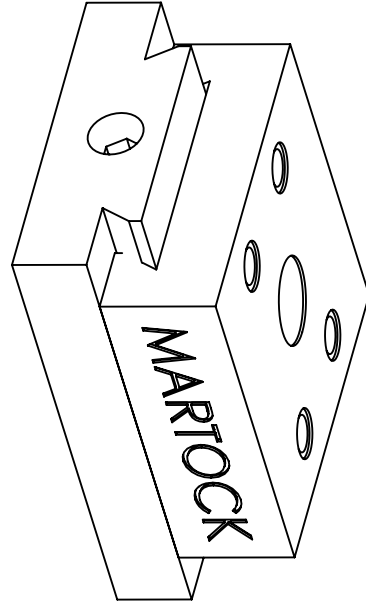
Knurled knob adjuster (Sold separately as P/No. MD-054115)
 Post mounting using MDE857 (and MDE858 if required)
 Fibre holders available: MDE719 and MDE730
 Non-magnetic versions available
 Vacuum compatible versions available

Notes

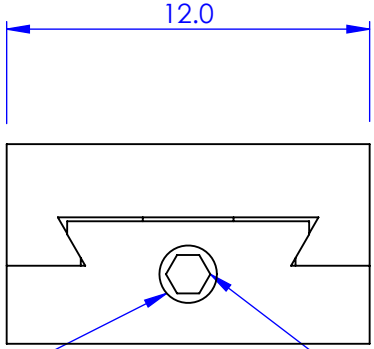
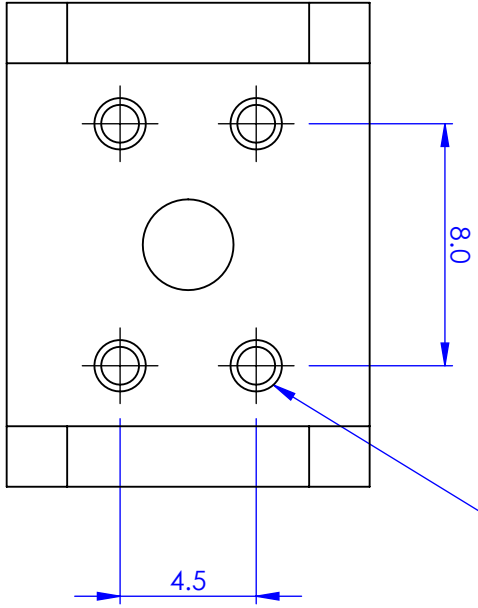
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

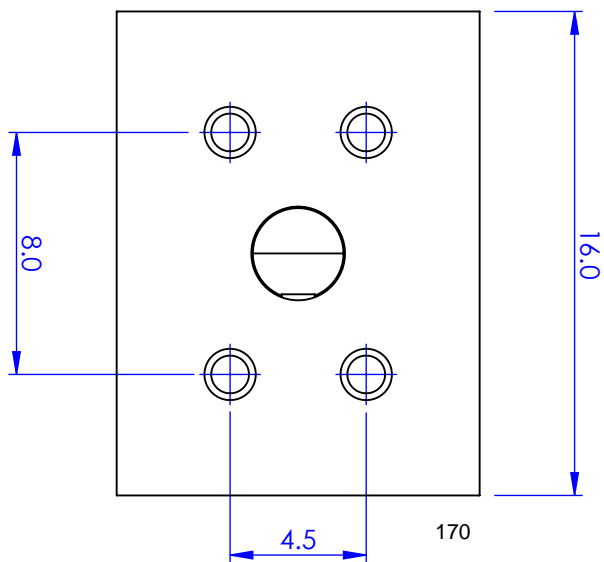
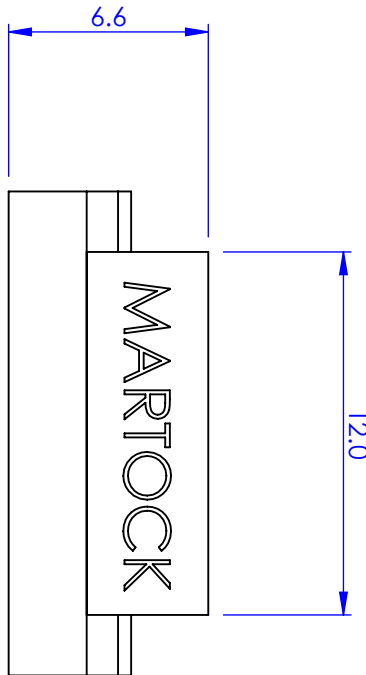


4 HOLES
M1.6 x 2 DEEP
TOP AND BOTTOM



ADJUSTER

1.27 HEX SOCKET



TRAVEL $\pm 1.5\text{mm}$

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 ANGULAR TOLERANCES: \pm
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL CU ALLOY, STAINLESS STEEL		FINISH ---	
TITLE MDE265 SINGLE AXIS STAGE		SIZE A4	DWG. NO. MDE265
DO NOT SCALE DRAWING		SCALE: 1:	THIRD ANGLE PROJECTION
SHEET 1 OF 1		Elliott Scientific	

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE266 Dual Axis XY Ultra-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Very Small dovetail slide series
- One of the smallest micropositioners available



Specifications

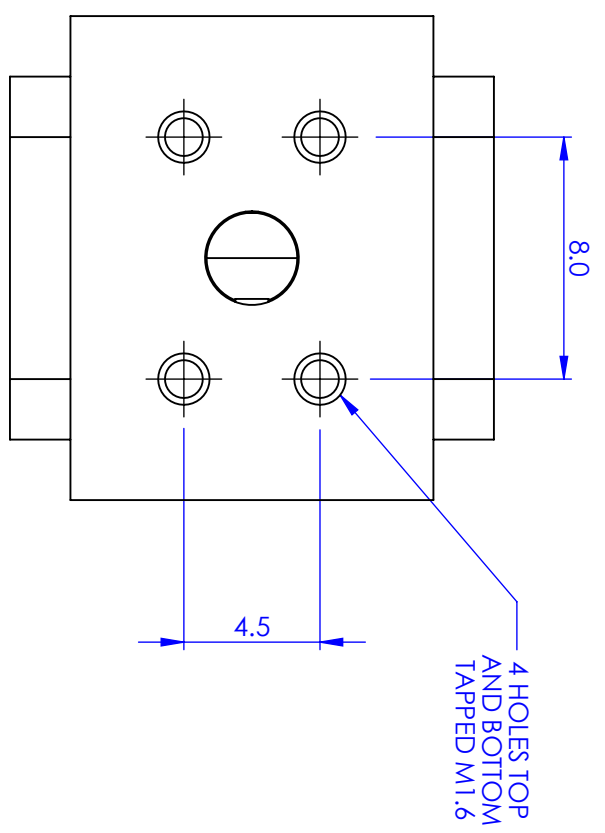
Travel	3 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with 1.27 mm hex socket
Ball hex driver supplied	
Top plate	12 x 12 mm
Thickness	11 mm
Mounting holes	Four M1.6 x 2 mm deep on both sides

Notes

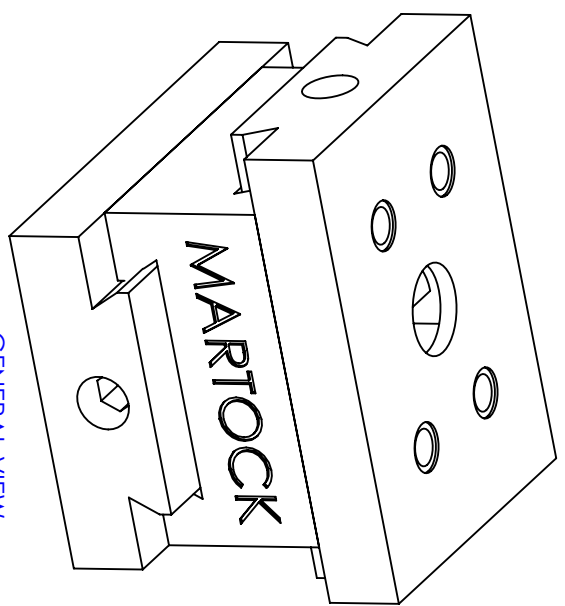
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

For the latest price, contact us today.

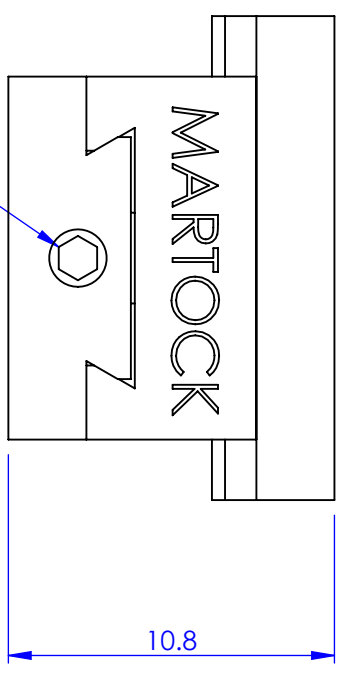
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



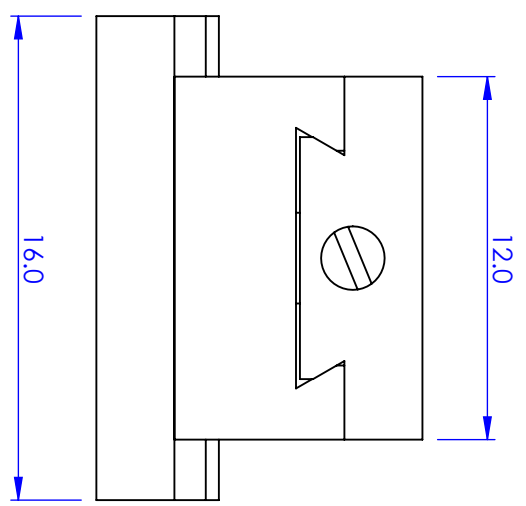
BOTH AXES ±3mm OF TRAVEL



GENERAL VIEW
SCALE: 4:1



1.27 HEX SOCKET



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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES AND CORNERS TO BE REMOVED

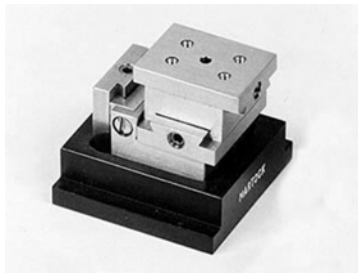
AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL		TITLE	
CU ALLOY, STAINLESS STEEL		2 AXIS DOVETAIL SLIDE	
FINISH	SIZE	DWG. NO.	
---	A4	MDEF266	
DO NOT SCALE DRAWING	SCALE: 1	THIRD ANGLE PROJECTION	SHEET 1 OF 1



Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE267 Three-Axis XYZ Ultra-Small Micropositioner on M4 Tapped Base



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Very Small dovetail slide series
- One of the smallest micropositioners available



Specifications

Travel	3 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with 1.27 mm hex socket
Ball hex driver supplied	
Top plate	12 x 12 mm
Base	M4 tapped

Options

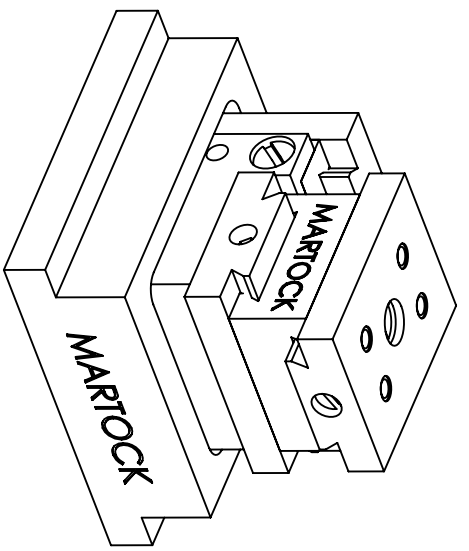
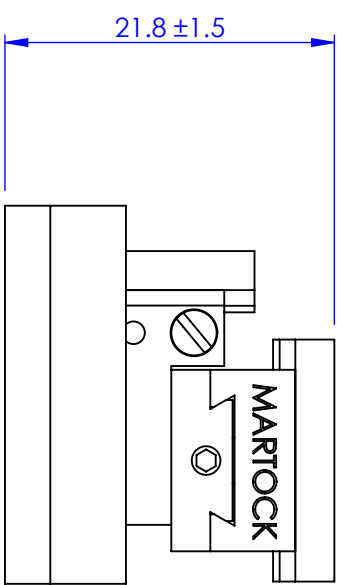
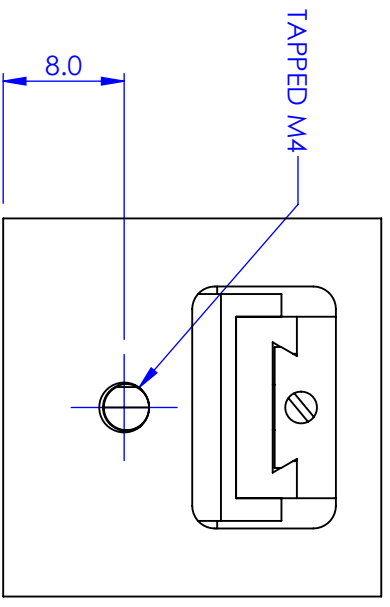
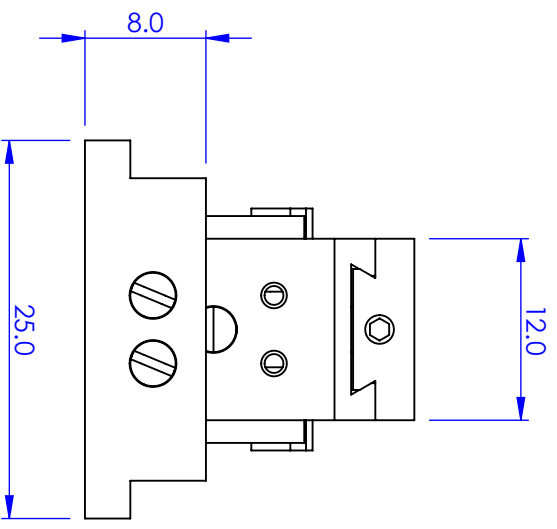
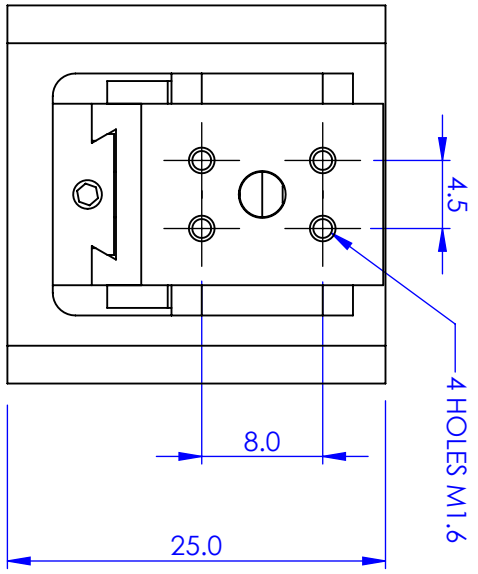
- Knurled knob adjuster (Sold separately as P/No. MD-054115)
- Post mounting using MDE857 (and MDE858 if required)
- Fibre holders available: MDE719 and MDE730
- Non-magnetic versions available
- Vacuum compatible versions available

Notes

Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	13/05/2010

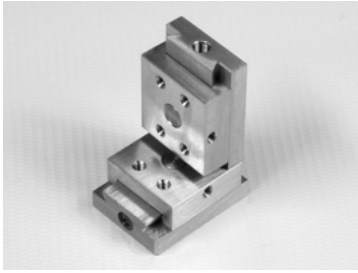
MATERIAL: **CU ALLOY, AL ALLOY STAINLESS STEEL**

FINISH: ---

		TITLE	
		MDE267 3-Axis Micropositioner	
SIZE	DWG. NO.	THIRD ANGLE PROJECTION	
A4	MDE267	SCALE: 1	SHEET 1 OF 1

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE268 Dual Axis XZ Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Very Small dovetail slide series
- One of the smallest micropositioners available

ELLIOT MARTOCK

Specifications

Travel	3 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with 1.27 mm hex socket
Top plate	12 x 12 mm
Mounting holes	Four M1.6 x 2 mm deep on both sides

Options

Knurled knob adjuster (Sold separately as P/No. MD-054115)
 Post mounting using MDE857 (and MDE858 if required)
 Fibre holders available: MDE719 and MDE730
 Non-magnetic versions available
 Vacuum compatible versions available

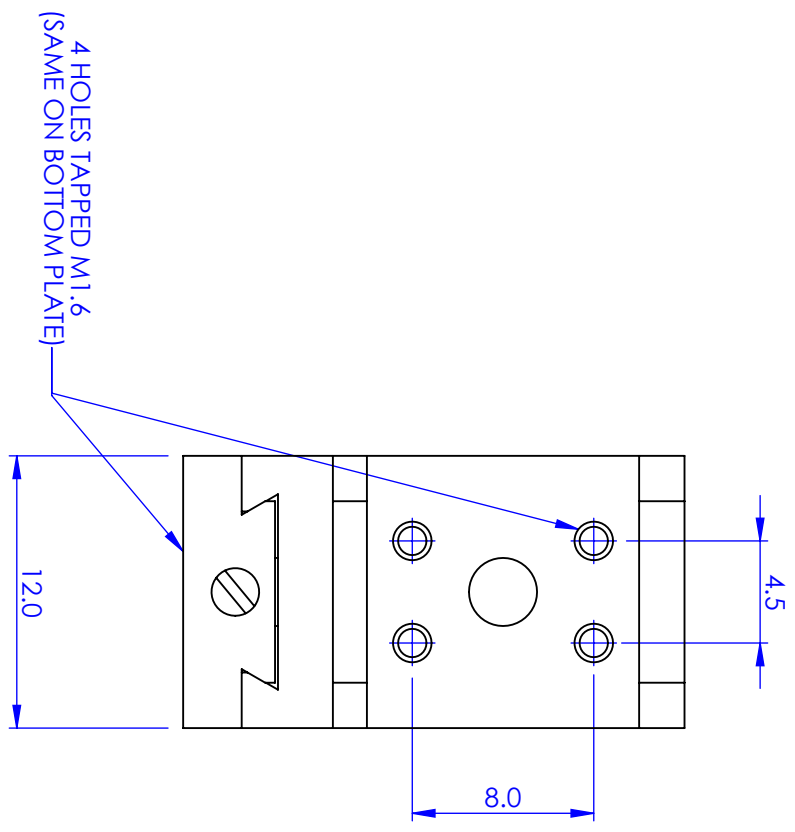
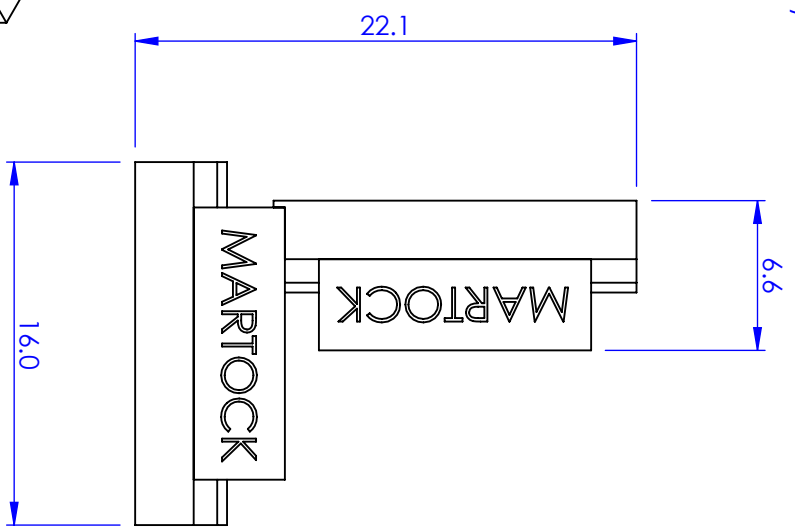
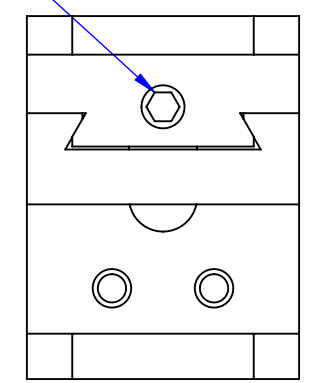
Notes

Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

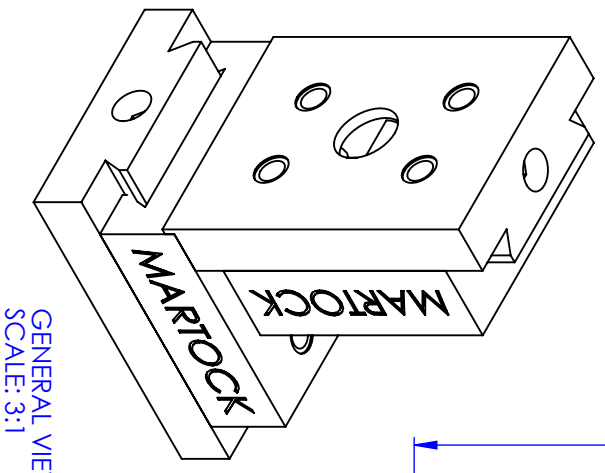
For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

0.5mm PITCH ADJUSTER,
1.27mm HEX SOCKET
(HEX KEY SUPPLIED)



BOTH AXES ±3mm OF TRAVEL



GENERAL VIEW
SCALE: 3:1

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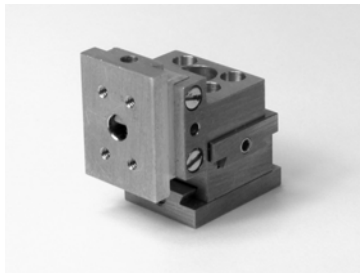
DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: ±
SURFACE FINISH:
ALL BURRS, SHARP EDGES AND CORNERS TO BE REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	13/05/2010

MATERIAL CU ALLOY, STAINLESS STEEL		FINISH ---	
TITLE Elliott Scientific XZ MICROPOSITIONER		SIZE A4	DWG. NO. MDE268
DO NOT SCALE DRAWING		SCALE: 3:1	THIRD ANGLE PROJECTION

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE269 Three Axis XZ Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Very Small dovetail slide series
- One of the smallest micropositioners available

ELLIOT MARTOCK

Specifications

Travel	3 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with 1.27 mm hex socket
Top plate	12 x 12 mm
Mounting holes	Four M1.6 x 2 mm deep on both sides

Options

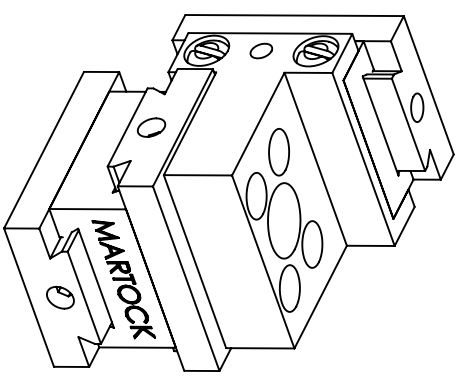
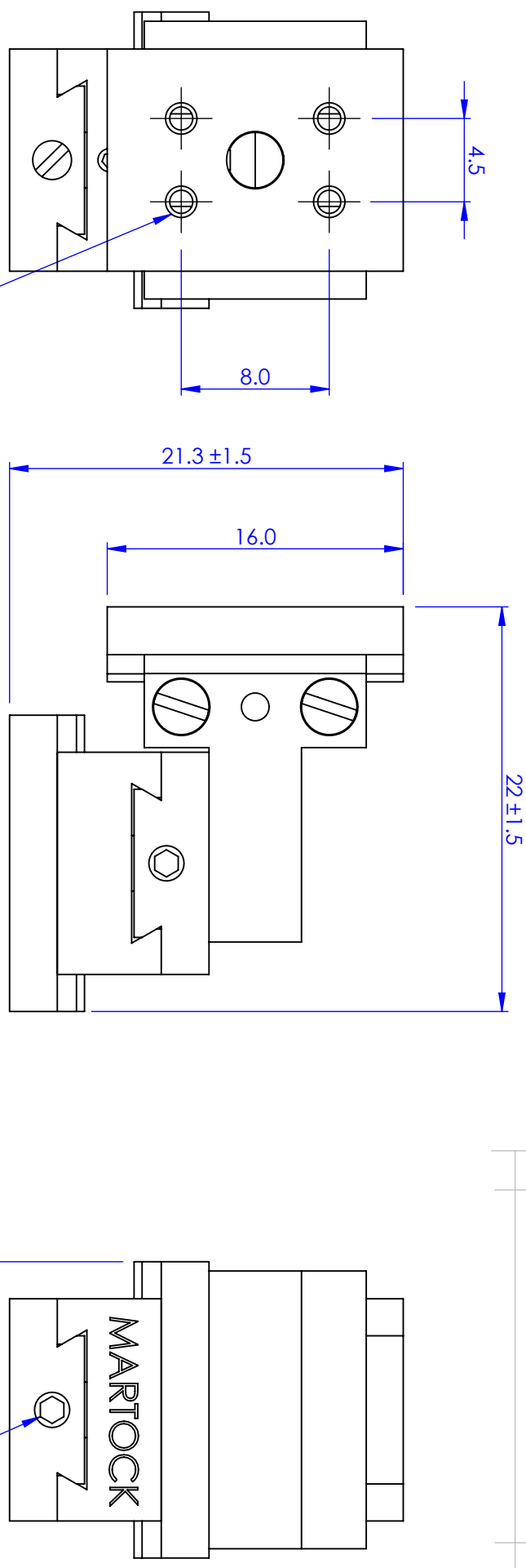
Knurled knob adjuster (Sold separately as P/No. MD-054115)
 Post mounting using MDE857 (and MDE858 if required)
 Fibre holders available: MDE719 and MDE730
 Non-magnetic versions available
 Vacuum compatible versions available

Notes

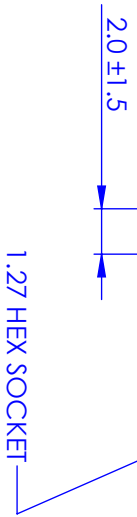
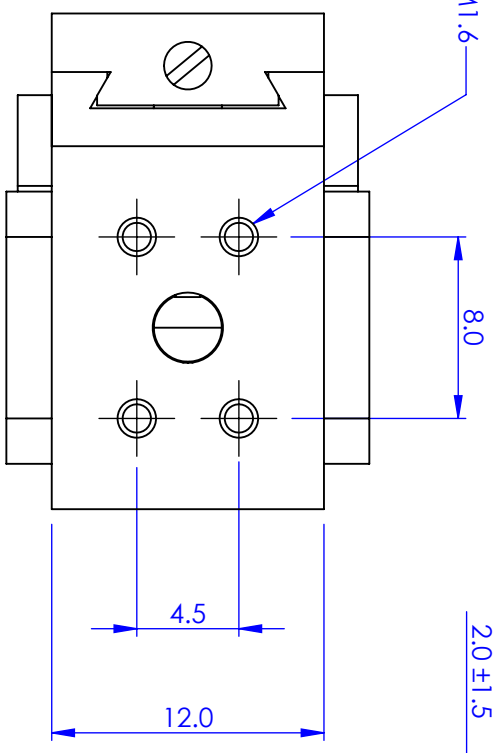
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REV.	DESCRIPTION		



GENERAL VIEW
SCALE 3:1



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DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010
MATERIAL		
CU ALLOY, STAINLESS STEEL		
FINISH		

Eliot Scientific

TITLE
3 AXIS DOVETAIL SLIDE

SIZE
A4

DWG. NO.
MDE269

DO NOT SCALE DRAWING

SCALE: 3:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Ultra Small Linear Stages: Fibre Accessories

MDE719 Fibre Rotator



- Spindle rotates 360°
- Resolution 30 arc secs
- Holds fibre ferrules only
- Fine adjustment: $\pm 5^\circ$ range
- Fits MDE265 Series Positioners
- Works with any ferrule up to 4.5 mm diameter

ELLIOT MARTOCK

The model MDE719 is a simple fibre rotator that integrates with MDE265 series positioners. It is designed to be used with fibre ferrules up to 4.5 mm in diameter (customer must specify actual ferrule size). It incorporates a spindle that rotates through 360°. Fine adjustment is $\pm 5^\circ$ with a resolution of 30 arc secs.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. The user replaceable V-grooves enable the you to work with different fibre sizes economically. Remember, custom grooves are our speciality.

All accessories are compatible with the Elliot Gold™ series flexure stages. The optical axis height is 18 mm above the platform surface and on the centre line of the location slot. Where necessary a locating tongue forms part of the accessory. A standard clamp system is used and is supplied with the flexure stages and accessory platforms.

The clamp set (MDE154) is available separately if required.

Specifications

Ferrule Size	Up to 4.5 mm diameter. Customer specified
Rotation	360° coarse rotation $\pm 5^\circ$ fine adjustment
Resolution	30 arc secs
Mount Fits MDE265 Series Positioners	
Supplied with mounting screws	

Options

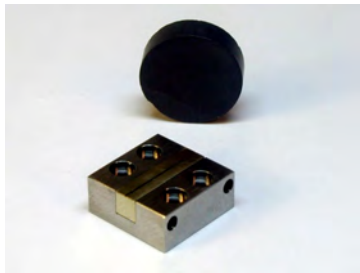
MDE265 series micropositioners
Clamp set (Model MDE154)

For the latest price, contact us today.

Elliot Scientific

Manual Positioners: Ultra Small Linear Stages: Fibre Accessories

MDE730 Fibre Holder (Magnetic)



- V-groove for 125 µm fibre
- V-groove for 125 µm fibre
- Fits MDE 265 Series Positioners
- Fibre retained by magnet (supplied)



The model MDE730 is a simple fibre holder utilising a magnetic clamp. The standard V-groove accepts 125 µm fibre, although other sizes are available on request. The fibre holder fits the MDE265 series positioners.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. The user replaceable V-grooves enable the you to work with different fibre sizes economically. Remember, custom grooves are our speciality.

Specifications

Fibre size	125 µm fibre
Fibre clamp	Magnetic
Optical axis	5.0 mm centre height
Mount Fits MDE265 Series Positioners	
Supplied with mounting screws	

Options

MDE265 series micropositioners

For the latest price, contact us today.



Manual Positioners: Ultra Small Linear Stages: Adaptors

MDE857 MDE260 & MDE265 Post Adaptor



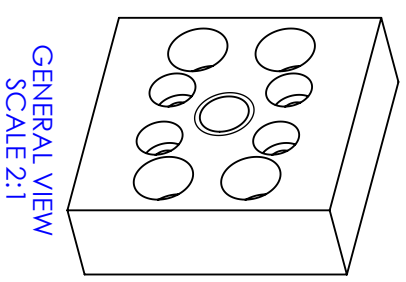
- Mount slide horizontal on post
- Mount MDE260 and MDE265 series to any M4 stud post
- Use with Elliot/Martock MDE260 and MDE265 series Ultra Small Micropositioners

ELLIOT MARTOCK

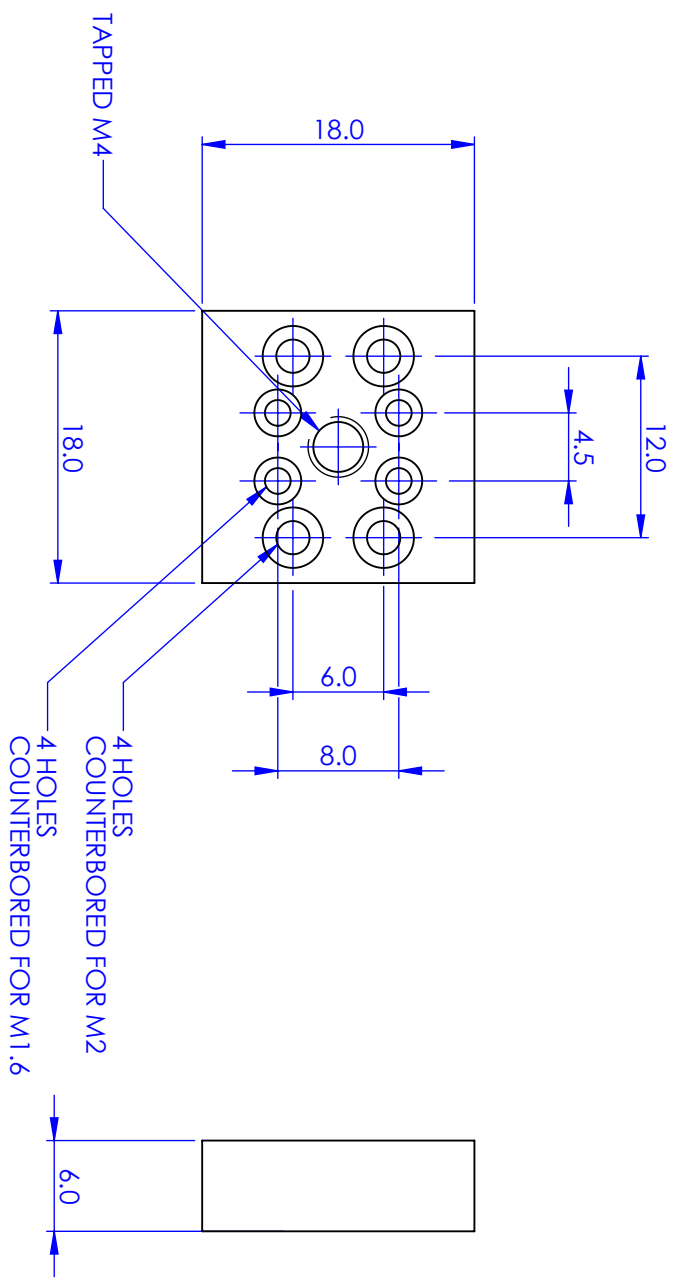
MDE857 adaptor fits MDE260 and MDE265 series slides.

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REV.	DESCRIPTION	DATE	APPROVED



GENERAL VIEW
SCALE 2:1



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 SURFACE FINISH:
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AUTHOR	NAME	DATE
CHECKED	GW	23/03/2010

MATERIAL		TITLE	
ALUMINIUM ALLOY		HORIZONTAL POST MOUNT	
FINISH		SIZE	DWG. NO.
ANODISED CLEAR		A4	MDE857
DO NOT SCALE DRAWING	SCALE: 2:1	THIRD ANGLE PROJECTION	SHEET 1 OF 1



Manual Positioners: Ultra Small Linear Stages: Adaptors

MDE858 MDE260 & MDE265 Post Adaptor for MDE857



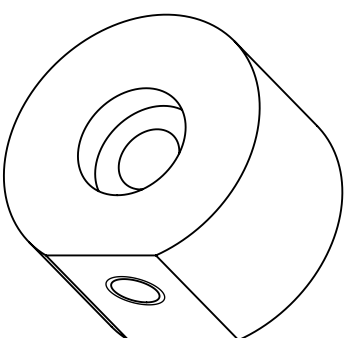
- Requires MDE857 adaptor
- Mount MDE260/MDE265 series micropositioners vertically
- or rotationally on an M4 stud

ELLIOT MARTOCK

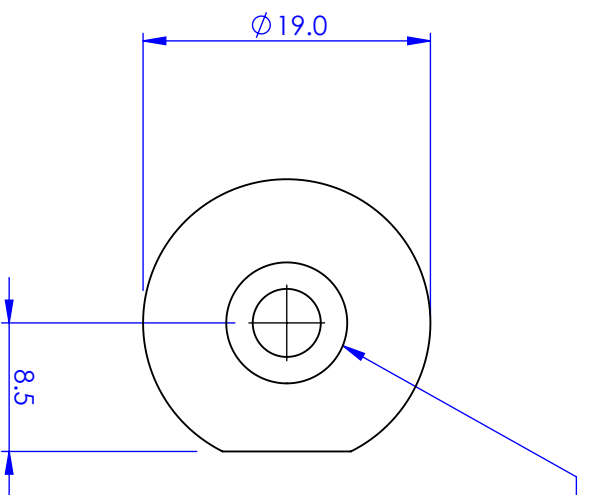
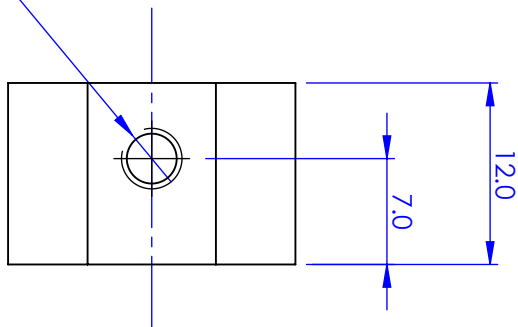
The MDE858 adaptor is used in conjunction with an MDE857 to allow vertical or rotational mounting of MDE260 and MDE265 series Ultra Small Micropositioners.

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE 2:1



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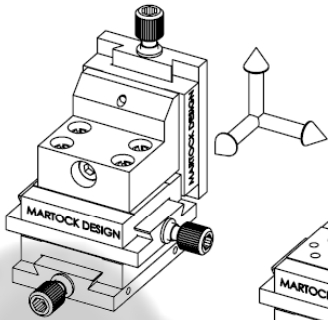
DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
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NAME	DATE
AUTHOR GW	23/03/2010
CHECKED	

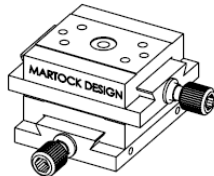
MATERIAL ALUMINIUM ALLOY		TITLE ADAPTER MOUNT	
FINISH ANODISED CLEAR		SIZE A4	DWG. NO. MDES58
DO NOT SCALE DRAWING		SCALE: 1	THIRD ANGLE PROJECTION
		SHEET 1 OF 1	



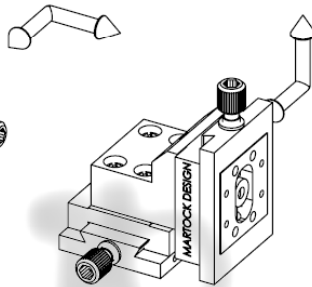
Very Small Linear Stages



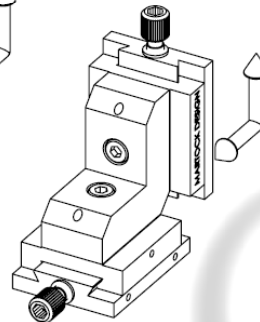
MDE263



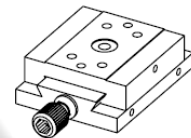
MDE262



MDE261-YZ



MDE261-XZ



MDE261

Elliot Scientific

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261 Single Axis Very-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μm
Adjuster	0.25 pitch with knurled knob and 2.5 mm hex socket
Ball hex driver supplied	
Top plate	26 x 20 mm
Thickness	8 mm
Mounting holes	Four M2 x 2 mm deep on both sides

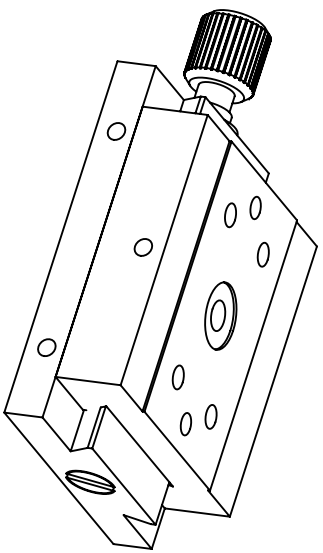
Options

Post mounting using MDE857 (and MDE858 if required)
 Fibre holder available: MDE72
 Tilting option: MDE270 and MDE273
 Rotation option: MDE283
 Table-mounting option: MDE293
 Vacuum version

Notes

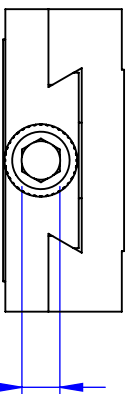
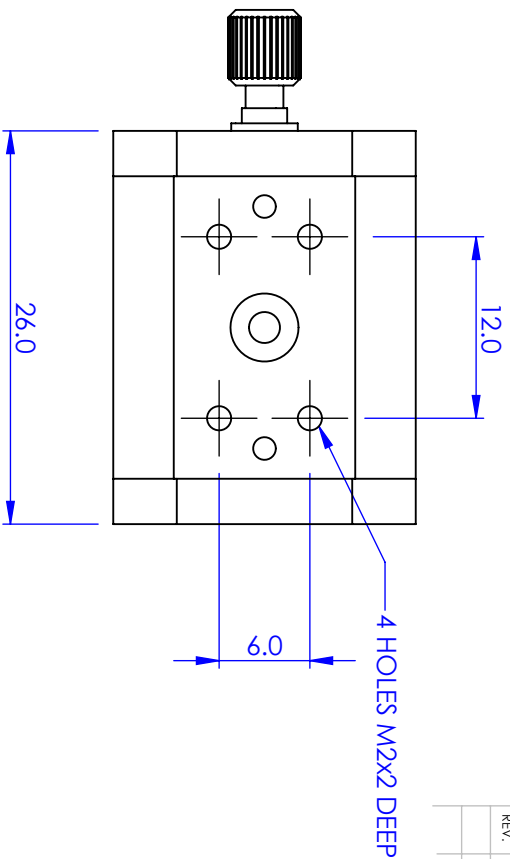
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

For the latest price, contact us today.

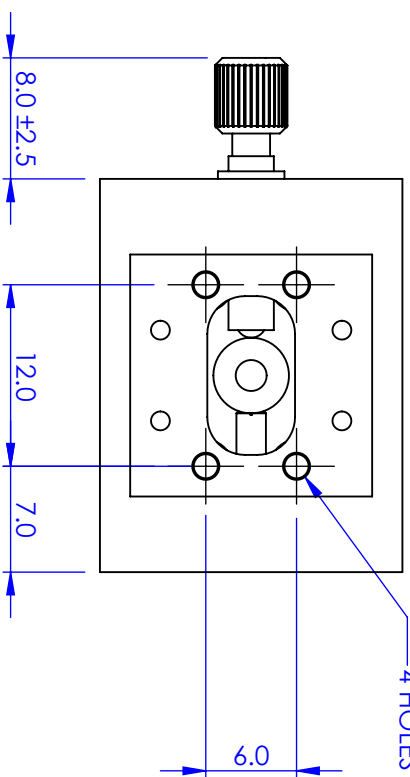
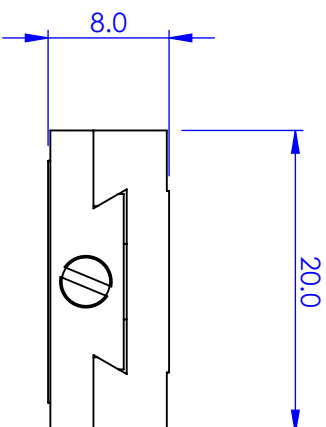
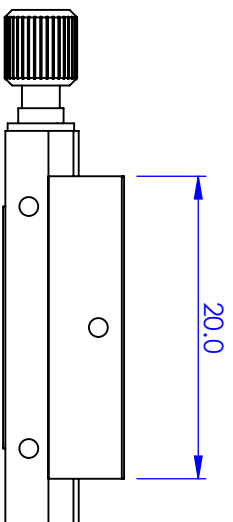


GENERAL VIEW
SCALE: 2:1

TRAVEL $\pm 2.5\text{mm}$



2.5 HEX KEY



4 HOLES M2X2 DEEP

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ANGULAR TOLERANCES: \pm
SURFACE FINISH:
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AND CORNERS TO BE
REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE MDE261 LINEAR SLIDE		SIZE A4	DWG. NO. MDE261
DO NOT SCALE DRAWING		SCALE: 2:1	THIRD ANGLE PROJECTION

REV.	DESCRIPTION	DATE	APPROVED

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE262 Dual Axis XY Very-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with knurled knob and 2.5 mm hex socket
Ball hex driver supplied	
Top plate	26 x 20 mm
Thickness	16 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

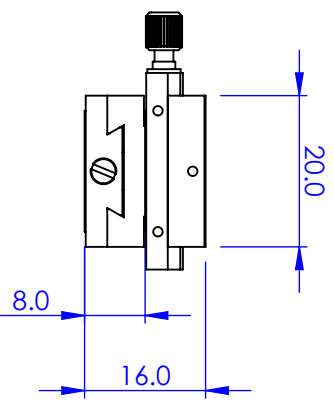
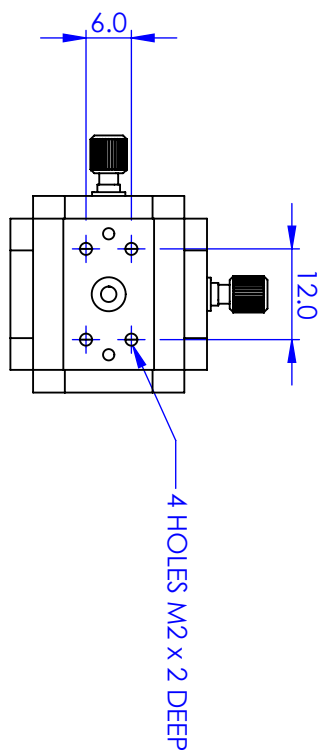
- XZ and YZ versions
- Lockable travel
- Vacuum version
- Non-magnetic version

Notes

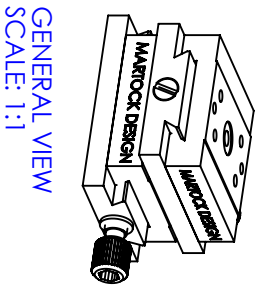
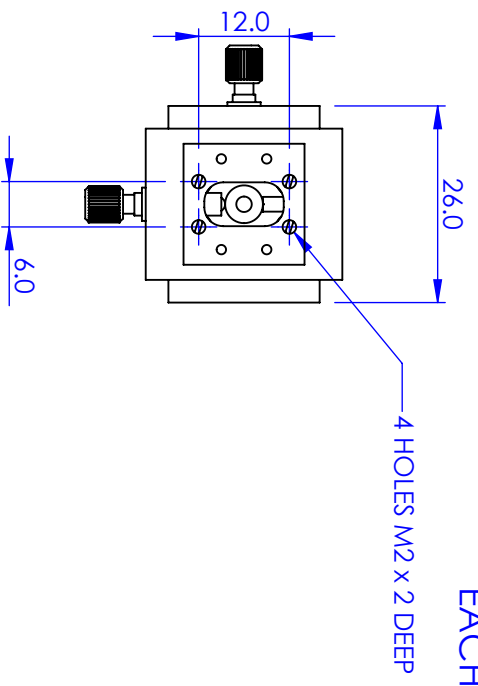
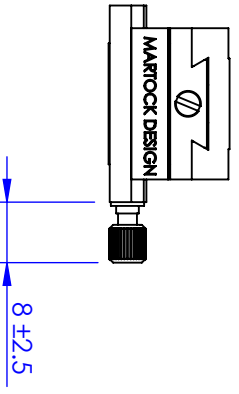
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REV.	DESCRIPTION		



EACH AXIS HAS ± 2.5 mm OF TRAVEL



GENERAL VIEW
SCALE: 1:1

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DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: \pm
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES AND CORNERS TO BE REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE Eliot Scientific 2 AXIS DOVETAIL SLIDE		SIZE A4	DWG. NO. MDEF262
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261-XZ Dual Axis XZ Very-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with knurled knob and 2.5 mm hex socket
Ball hex driver supplied	
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

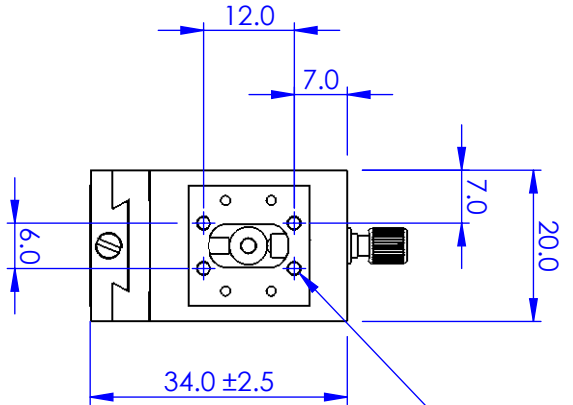
- XY and XZ versions
- Lockable travel
- Vacuum version
- Non-magnetic version

Notes

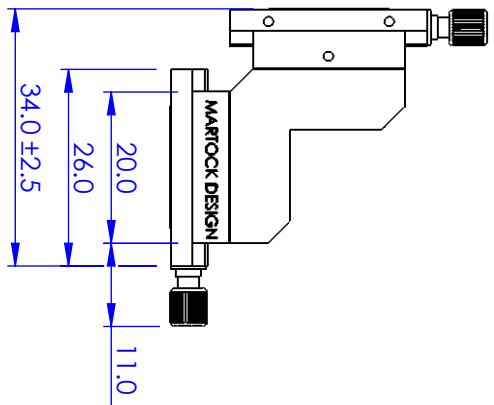
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For the latest price, contact us today.

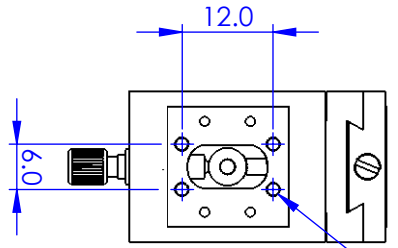
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



4 HOLES TAPPED M2 X 2 DEEP

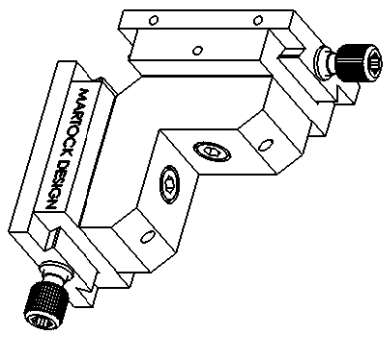


EACH AXIS HAS ±2.5mm OF TRAVEL



4 HOLES TAPPED M2 X 2 DEEP

GENERAL VIEW
SCALE: 1:1



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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE XZ DOVETAIL SLIDE		SIZE A4	DWG. NO. MDE261-XZ
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261-YZ Dual Axis YZ Very-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch with knurled knob and 2.5 mm hex socket
Ball hex driver supplied	
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

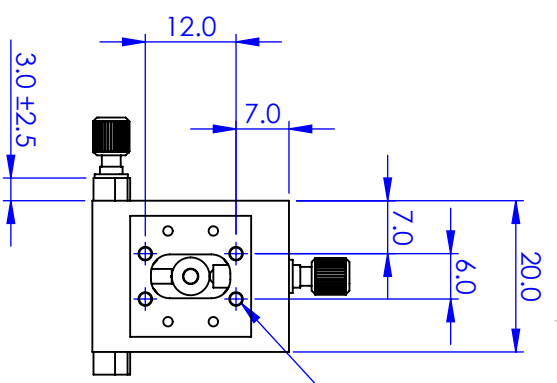
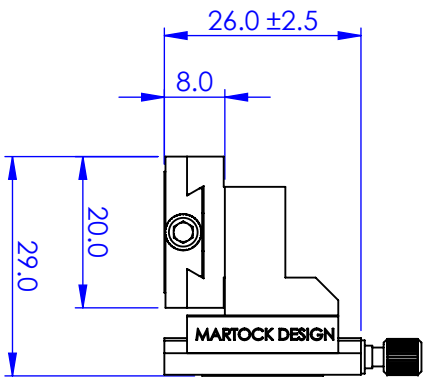
XY and XZ versions
 Lockable travel
 Vacuum version
 Non-magnetic version

Notes

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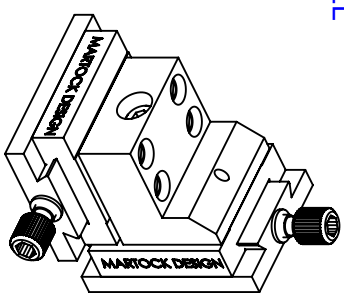
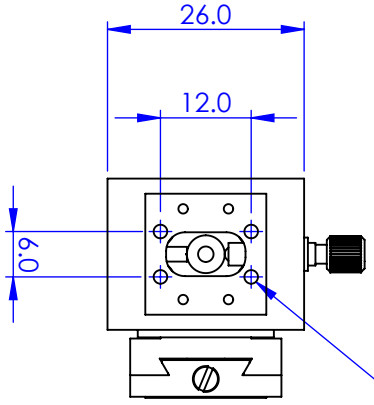
REV.	DESCRIPTION	DATE	APPROVED



EACH AXIS HAS ±2.5mm OF TRAVEL

4 HOLES TAPPED M2 X 2 DEEP

4 HOLES TAPPED M2 X 2 DEEP



GENERAL VIEW
SCALE 1:1

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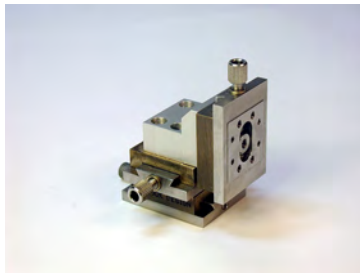
AUTHOR	NAME	DATE
CHECKED	GW	12/05/2010

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE Y-Z SLIDE ASSEMBLY		SIZE A4	DWG. NO. MD261-YZ
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE263 Three Axis XYZ Very-Small Micropositioner



- Wide range of configurations
- Very smooth backlash-free motion
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with knurled knob and 2.5 mm hex socket
Ball hex driver supplied	
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Options

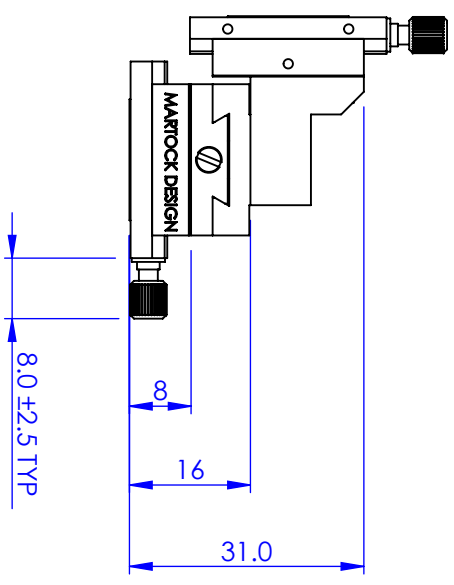
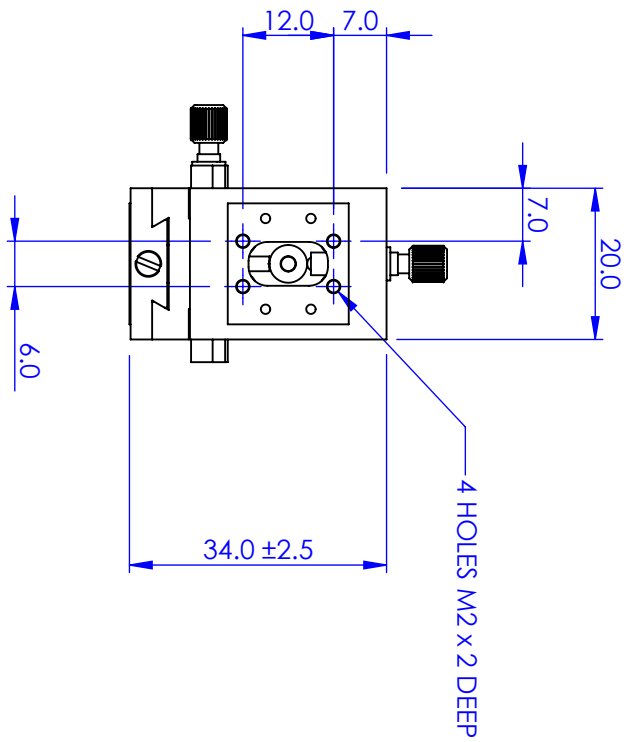
- Post mounting using MDE857 (and MDE858 if required)
- Fibre holder available: MDE72
- Tilting option: MDE270 and MDE273
- Rotation option: MDE283
- Table-mounting option: MDE293
- Vacuum version

Notes

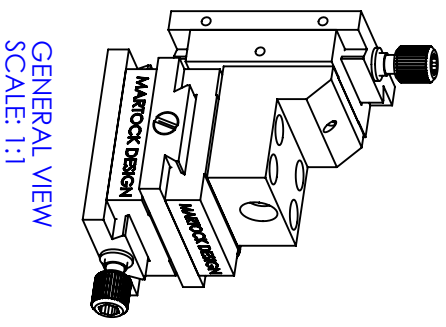
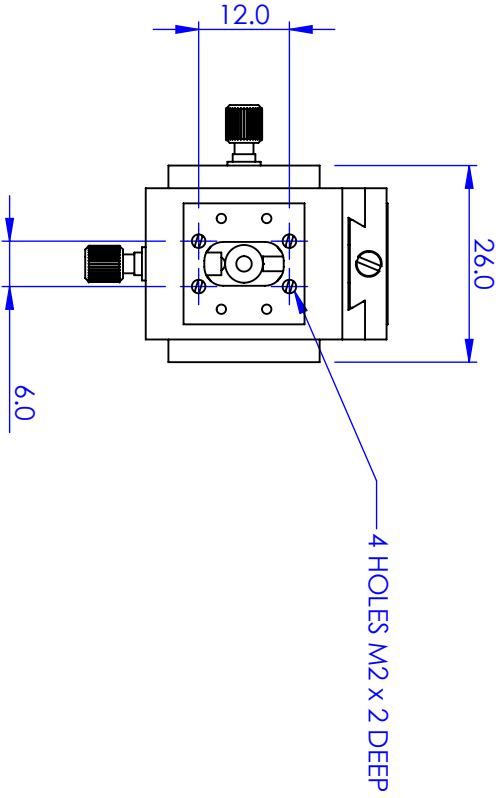
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



EACH AXIS HAS ±2.5mm OF TRAVEL



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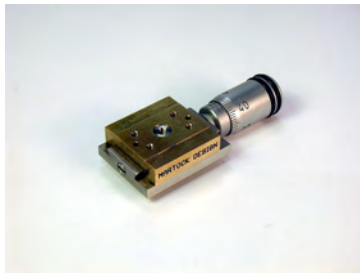
DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

TITLE	XYZ DOVETAIL SLIDE
MATERIAL	STAINLESS STEEL, ALUM. ALLOY
FINISH	
SIZE	A4
DWG. NO.	MDE263
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261M Single Axis Very-Small Micropositioner with Micrometer



- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjuster
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjuster	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Thickness	8 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Options

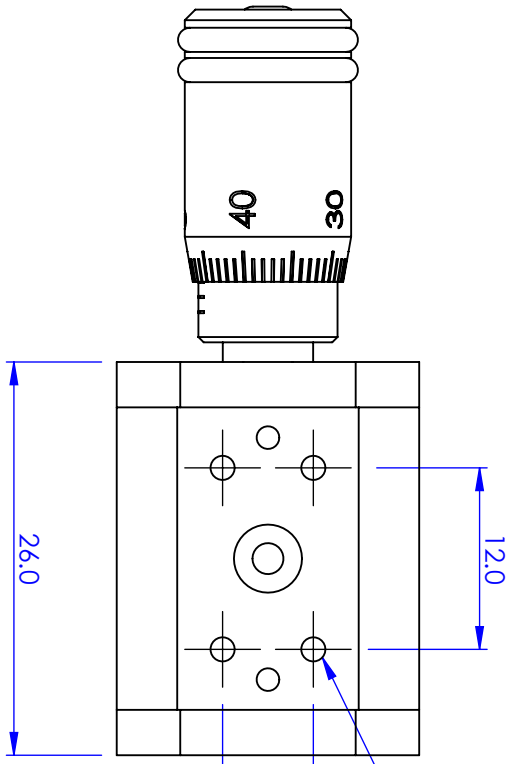
- Post mounting using MDE857 (and MDE858 if required)
- Fibre holder available: MDE72
- Tilting option: MDE270 and MDE273
- Rotation option: MDE283
- Table-mounting option: MDE293
- Vacuum version

Notes

Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

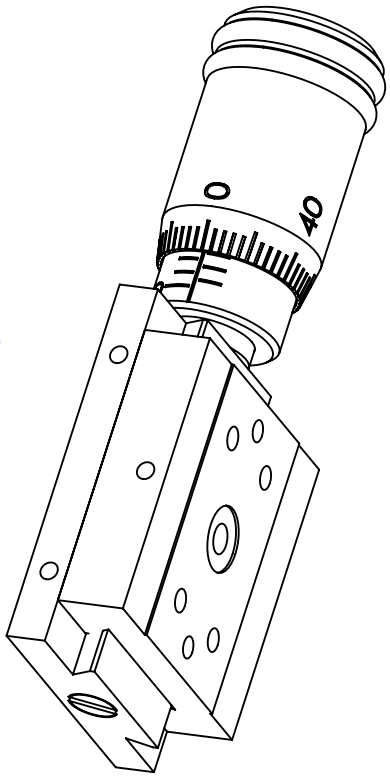
For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

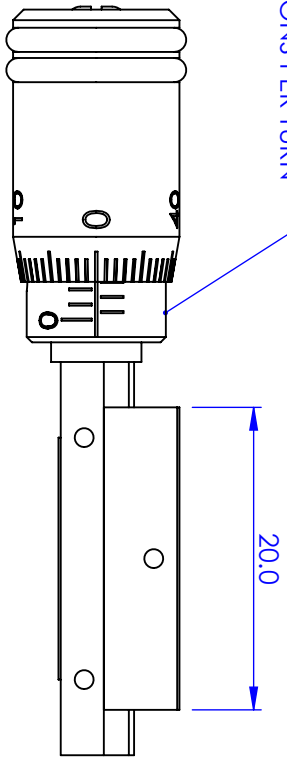


4 HOLES M2X2 DEEP

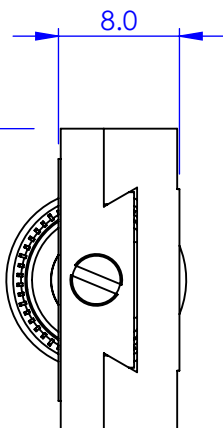
GENERAL VIEW
SCALE: 2:1



0.5mm PITCH MICROMETER
50 DIVISIONS PER TURN

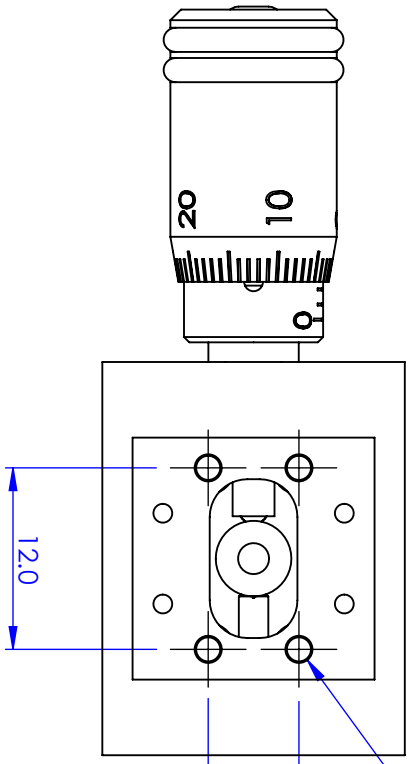


20.0



8.0

20.0



4 HOLES M2X2 DEEP

12.0

6.0

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DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: ±
SURFACE FINISH:
ALL BURRS, SHARP EDGES
AND CORNERS TO BE
REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	26/05/2010

Eliot Scientific	
TITLE DOVETAIL SLIDE	
MATERIAL STAINLESS STEEL, ALUM. ALLOY	FINISH ---
SIZE A4	DWG. NO. MDE261M
DO NOT SCALE DRAWING	SCALE: 2:1
THIRD ANGLE PROJECTION	SHEET 1 OF 1

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE262M Dual Axis XY Very-Small Micropositioner with Micrometers



- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Based on the Small dovetail slide series

Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Thickness	16 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

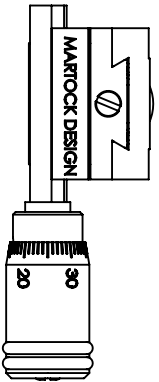
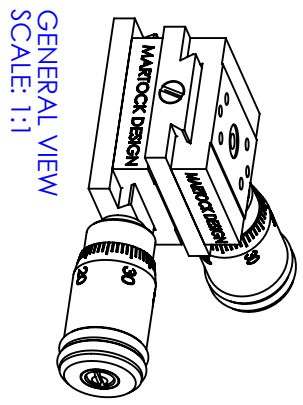
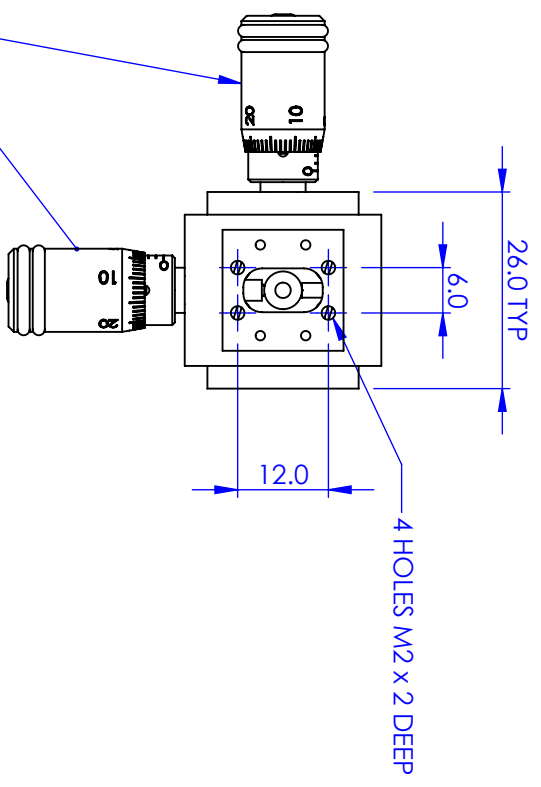
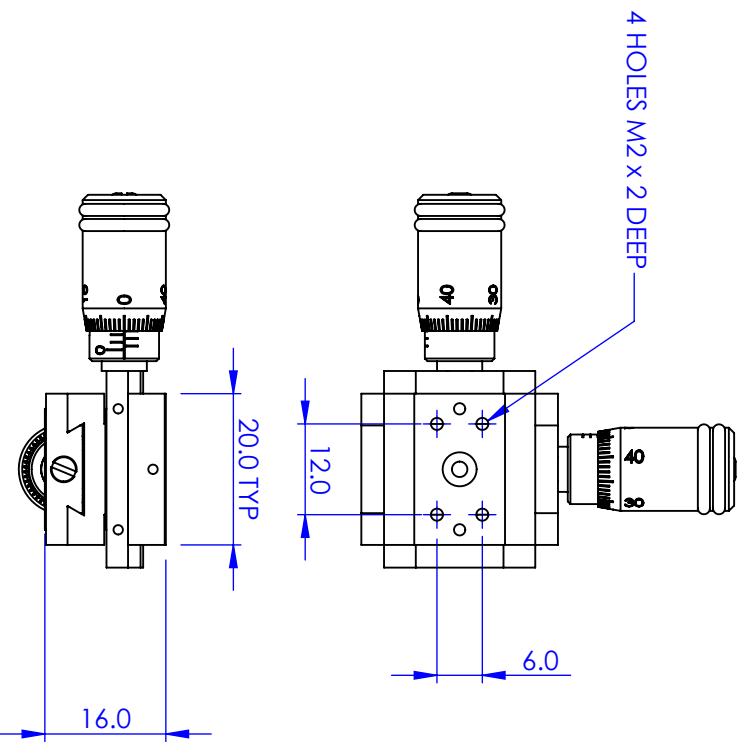
- XZ and YZ versions
- Lockable travel
- Vacuum version
- Non-magnetic version

Notes

Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



EACH AXIS HAS ±2.5mm OF TRAVEL

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 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	14/02/2007

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE Eliot Scientific		SCALE: 1:1	
SIZE A4	DWG. NO. MDE262M	THIRD ANGLE PROJECTION	
DO NOT SCALE DRAWING		SHEET 1 OF 1	

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261M-XZ Dual Axis XZ Very-Small Micropositioner with Micrometers



- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μm
Adjusters	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

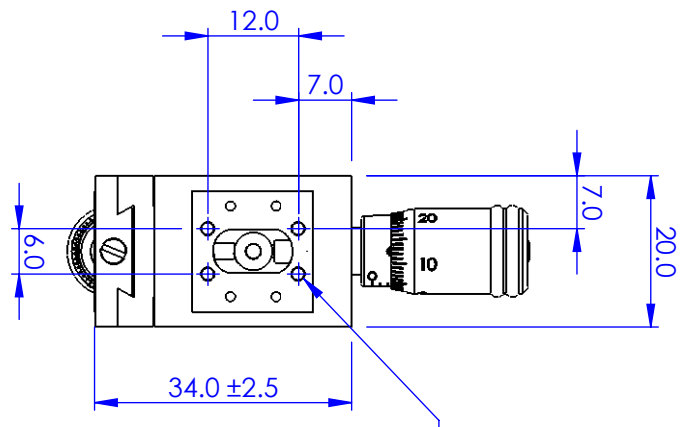
XY and XZ versions
Lockable travel
Vacuum version
Non-magnetic version

Notes

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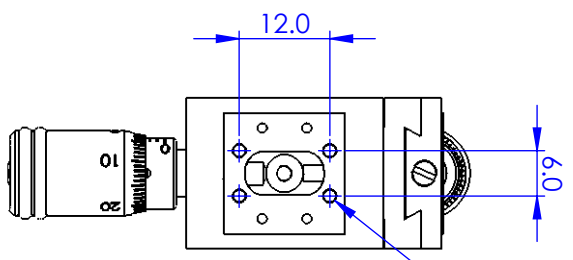
For the latest price, contact us today.

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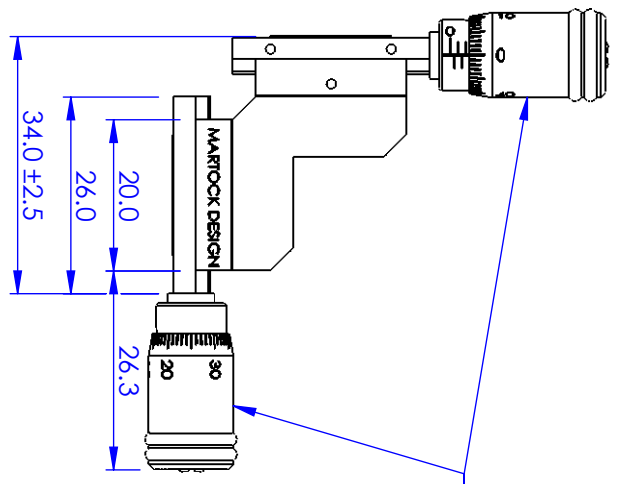


4 HOLES TAPPED M2 X 2 DEEP

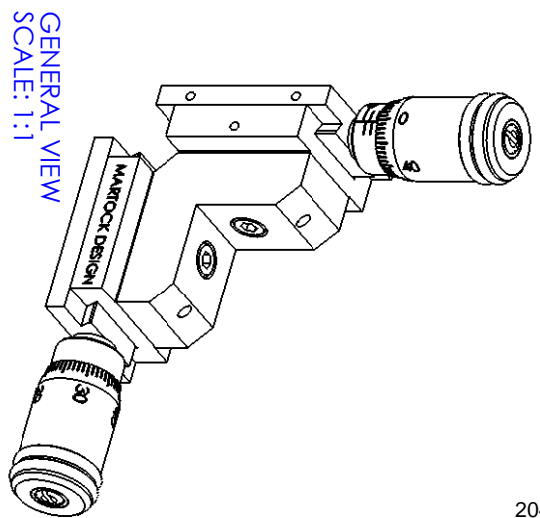
EACH AXIS HAS ±2.5mm OF TRAVEL



4 HOLES TAPPED M2 X 2 DEEP



0.5mm PITCH MICROMETERS
50 DIVISIONS PER TURN



GENERAL VIEW
SCALE: 1:1

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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
 REMOVED

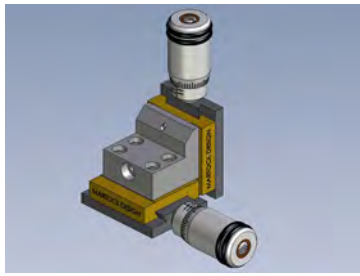
AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL STAINLESS STEEL, ALUM. ALLOY		FINISH ---	
TITLE XZ DOVETAIL SLIDE		SIZE A4	DWG. NO. MDE261M-XZ
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION

Eliot Scientific

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261M-YZ Dual Axis YZ Very-Small Micropositioner with Micrometers



- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Based on the Small dovetail slide series

Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Variants

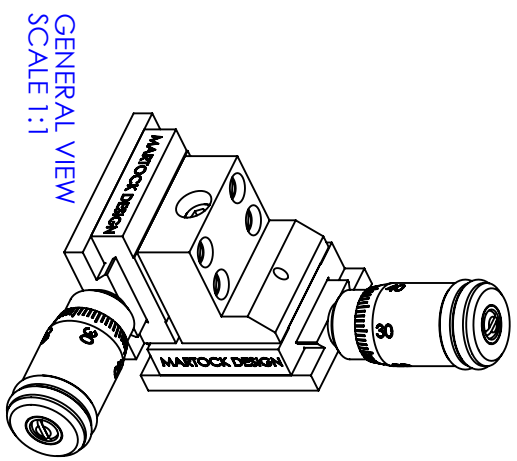
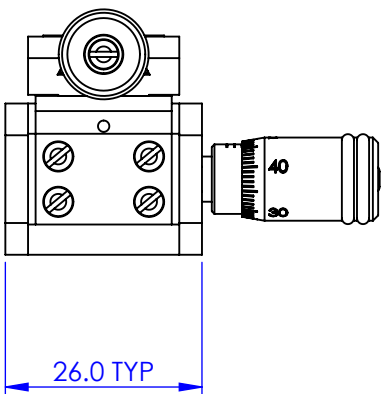
- XY and XZ versions
- Lockable travel
- Vacuum version
- Non-magnetic version

Notes

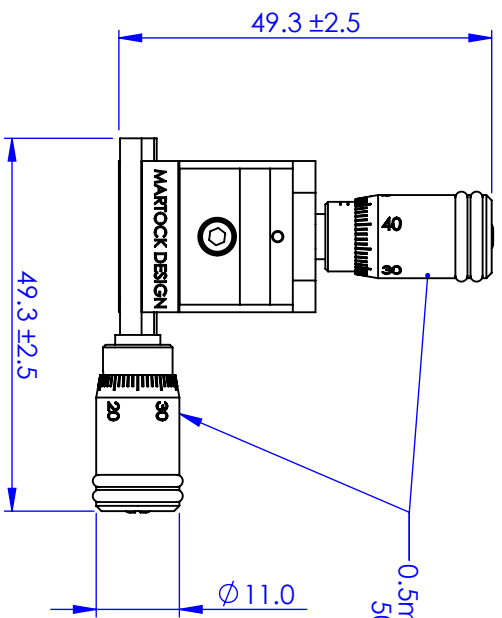
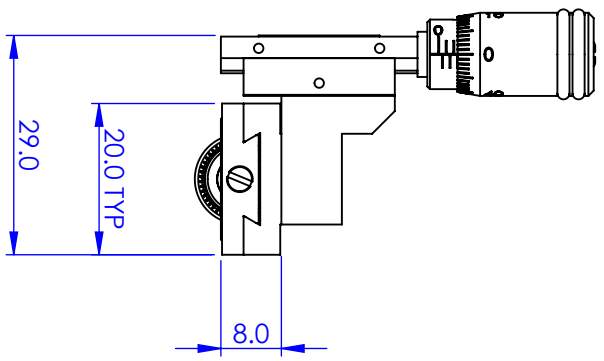
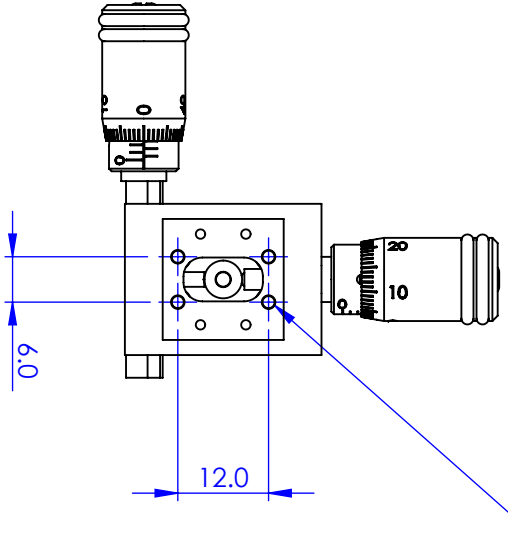
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported on a comparatively large area.

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REV.	DESCRIPTION	DATE	APPROVED



4 HOLES TAPPED M2 X 2 DEEP



0.5mm PITCH MICROMETERS
50 DIVISIONS PER TURN

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 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

NAME	DATE
AUTHOR GW	09/06/2006
CHECKED	

		TITLE
		Y-Z SLIDE ASSY WITH MICROMETERS
SIZE A4	DWG. NO. MDE261M-YZ	
SCALE: 1:1	THIRD ANGLE PROJECTION	SHEET 1 OF 1

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE263M Three Axis XYZ Very-Small Micropositioner with Micrometers



- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Based on the Small dovetail slide series



Specifications

Travel	5 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

Options

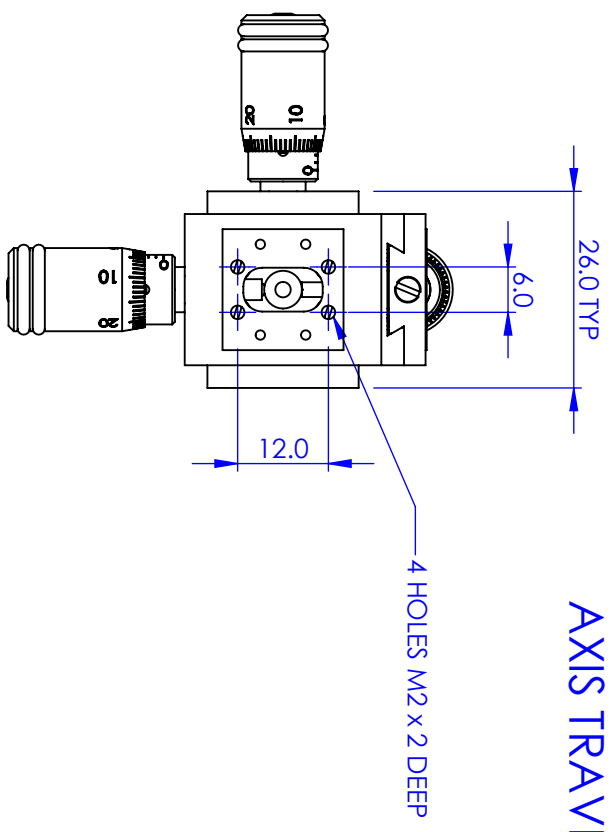
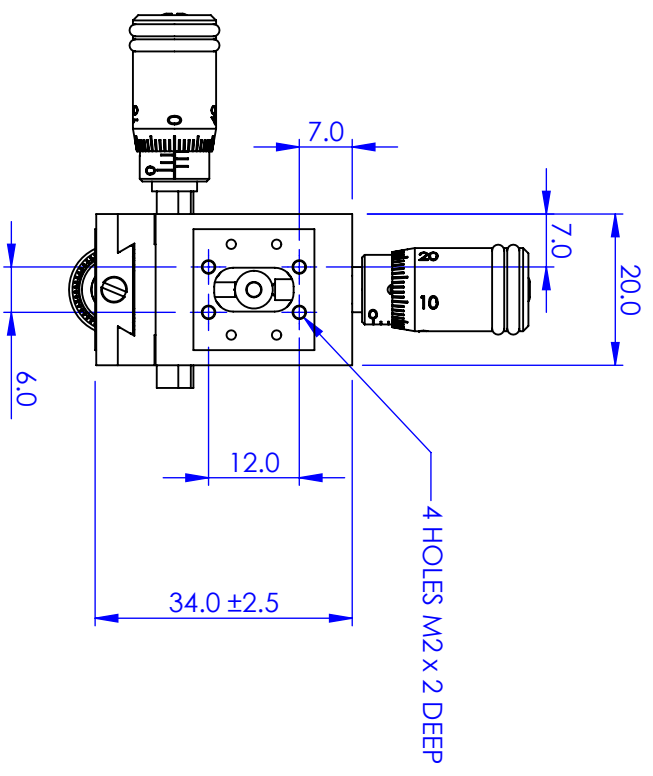
- Post mounting using MDE857 (and MDE858 if required)
- Fibre holder available: MDE72
- Tilting option: MDE270 and MDE273
- Rotation option: MDE283
- Table-mounting option: MDE293
- Vacuum version

Notes

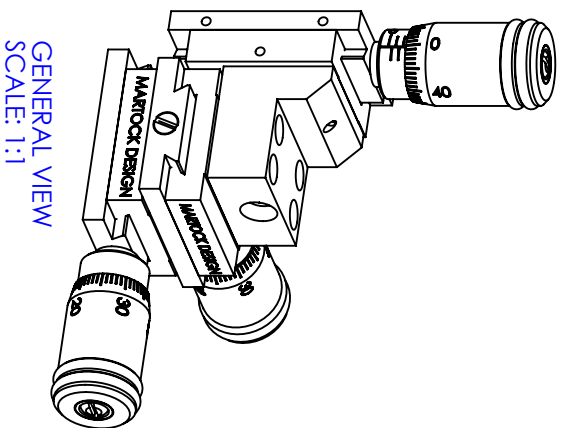
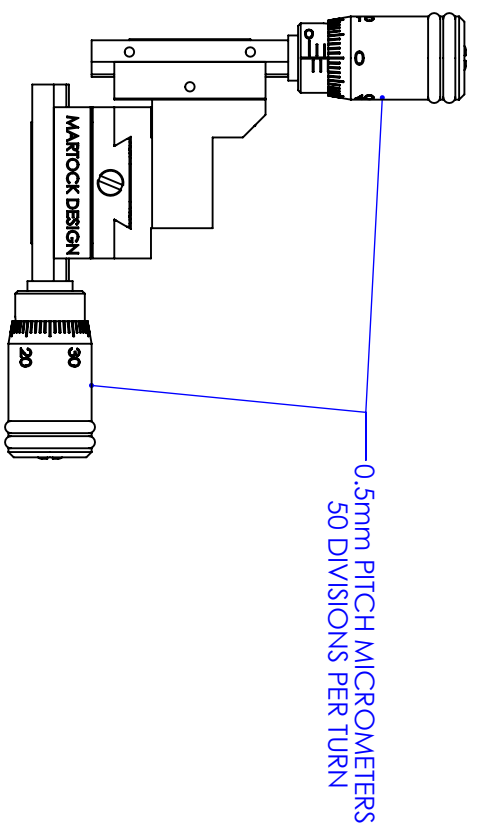
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AXIS TRAVEL ± 2.5mm



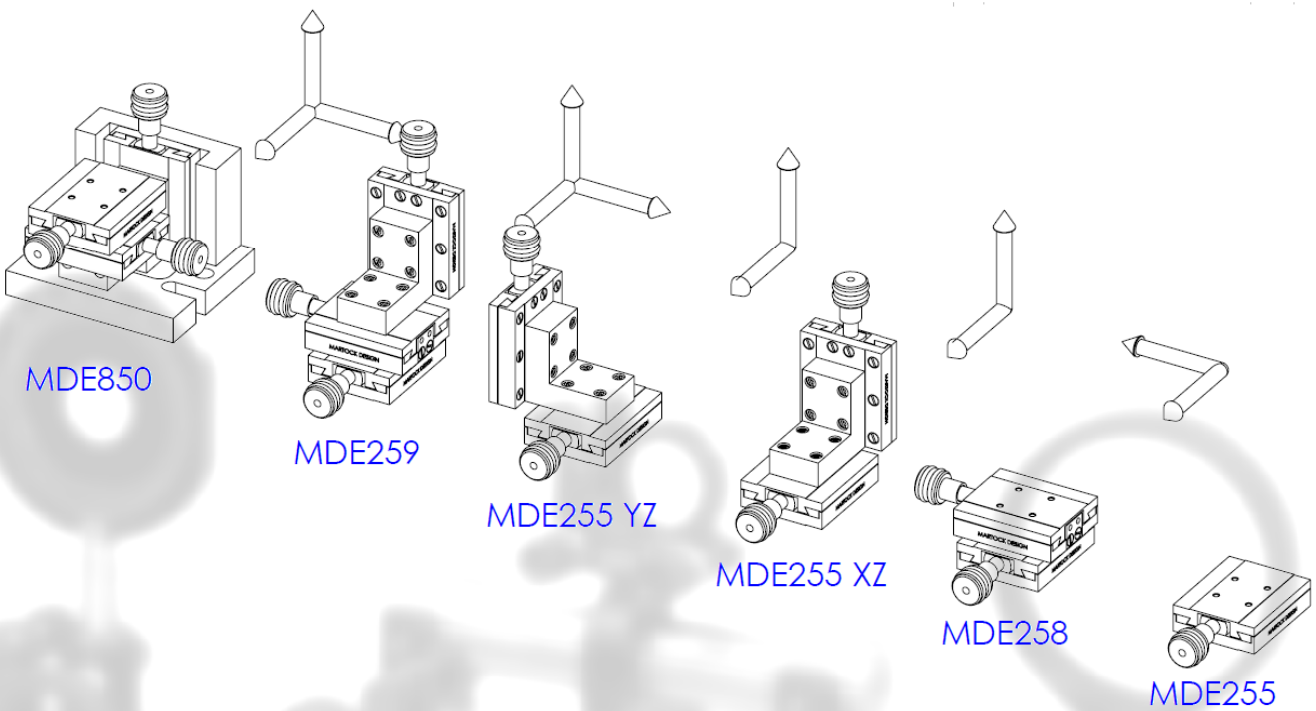
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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

NAME	DATE
AUTHOR GW	25/01/2007
CHECKED --	--

		TITLE
		MDE263 WITH MICROMETERS
SIZE A4	DWG. NO. MDE263M	DO NOT SCALE DRAWING
SCALE: 1:1	THIRD ANGLE PROJECTION	SHEET 1 OF 1

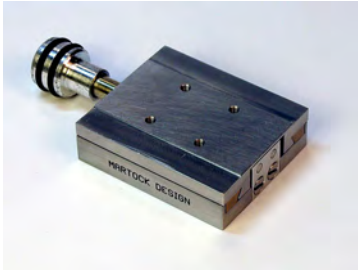
Small Linear Stages





Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255 Single Axis Small Micropositioner



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs



Specifications

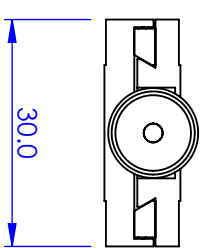
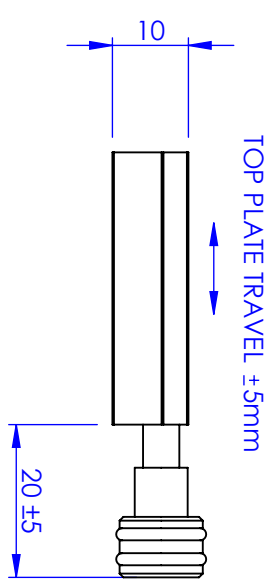
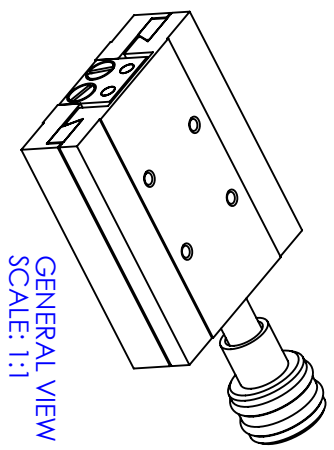
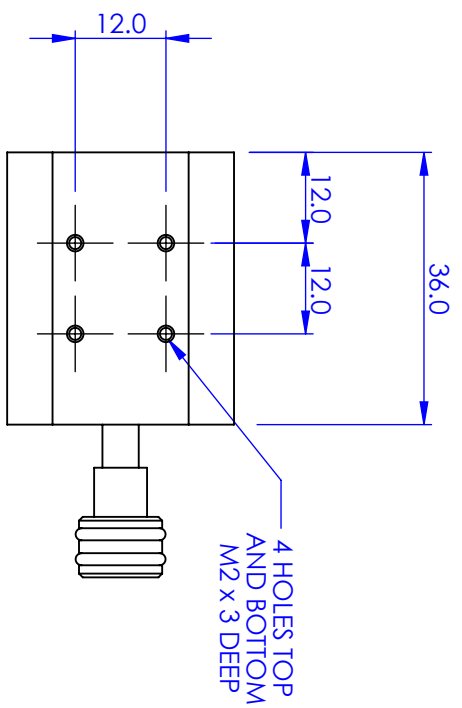
Travel	10 mm
Sensitivity	< 0.5 μm
Adjuster	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

For the latest price, contact us today.

REV.	REVISIONS	DESCRIPTION	DATE	APPROVED



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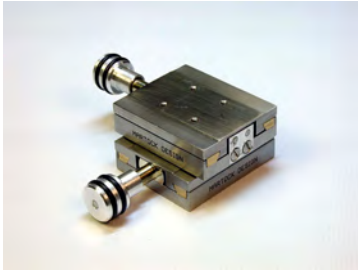
DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	27/05/2008

Eliot Scientific	
MATERIAL: STAINLESS STEEL, BRASS, ALUM, ALLOY	
FINISH:	
TITLE: MDE255 LINEAR SLIDE	DWG. NO.: MDE255
SIZE: A4	SCALE: 1:1
DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION
SHEET 1 OF 1	SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE258 Dual Axis XY Small Micropositioner



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

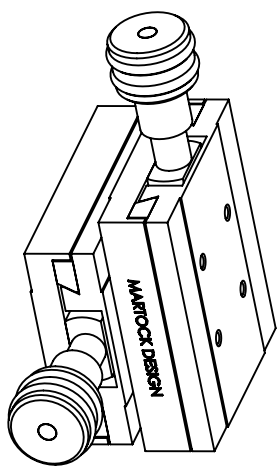
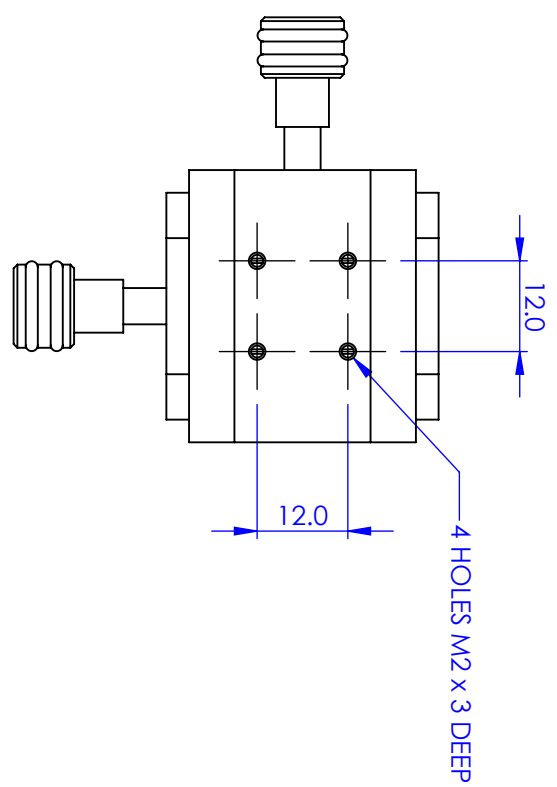
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch

Variants

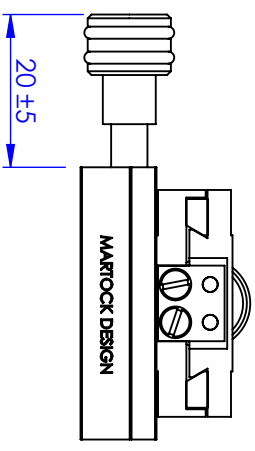
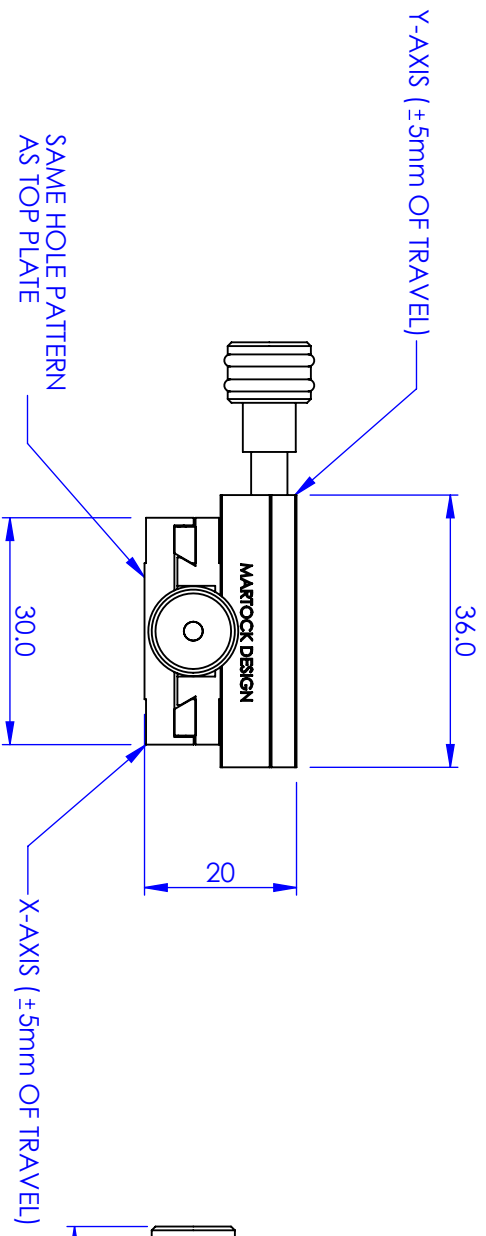
Lockable travel
Vacuum version
Non-magnetic version

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY		FINISH ---	
Eliot Scientific			
TITLE 2 AXIS MICROPOSITIONER			
SIZE A4	DWG. NO. MDE258	SCALE: 1:1	
DO NOT SCALE DRAWING			THIRD ANGLE PROJECTION
			SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255-XZ Dual Axis XZ Small Micropositioner



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

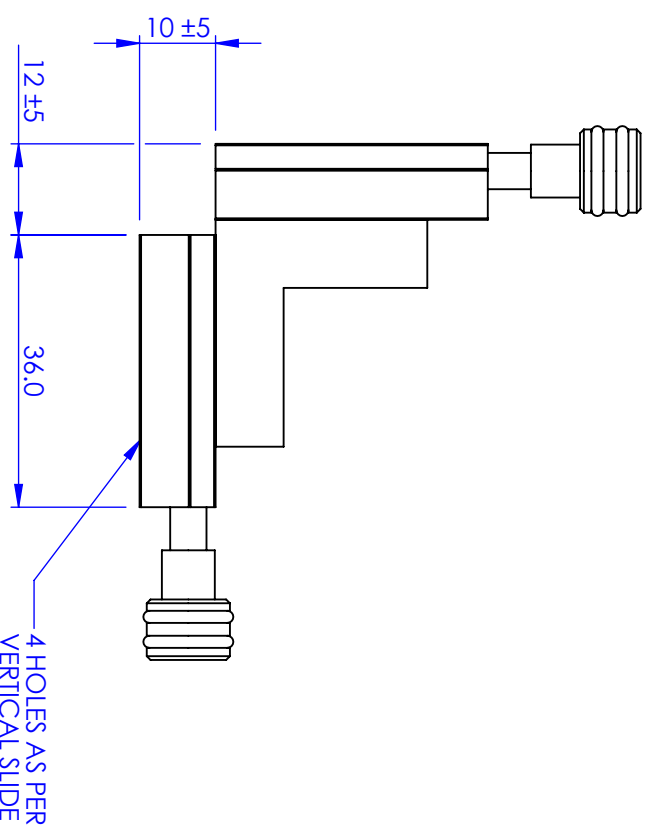
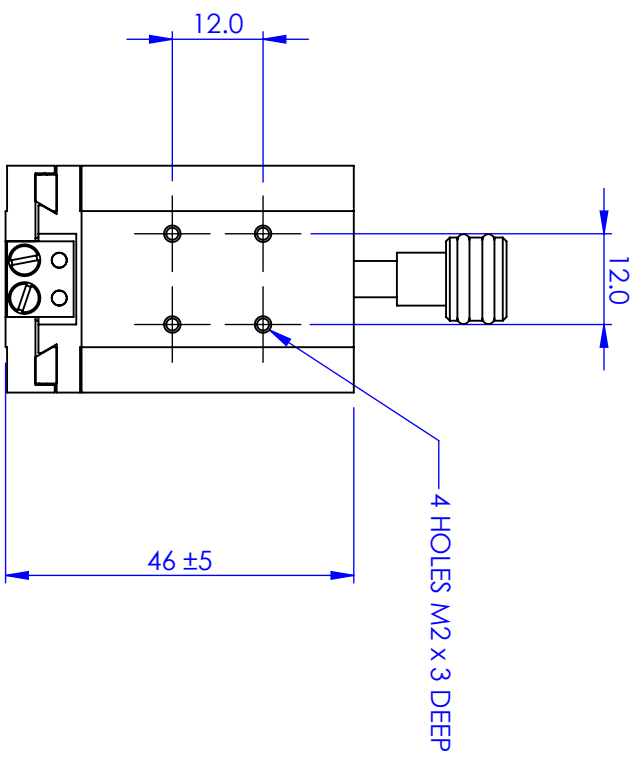
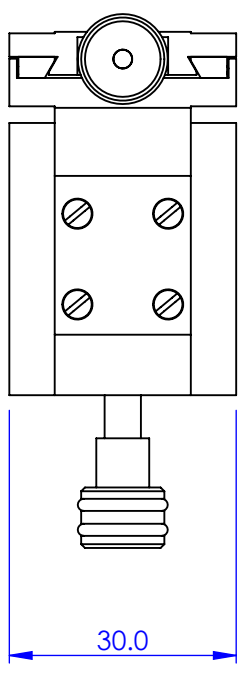
Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

Eliot Scientific

TITLE
 XZ DOVETAIL SLIDE

MATERIAL
 STAINLESS STEEL,
 BRASS, ALUM, ALLOY

FINISH

SIZE
 A4

DWG. NO.
 MDE255 XZ

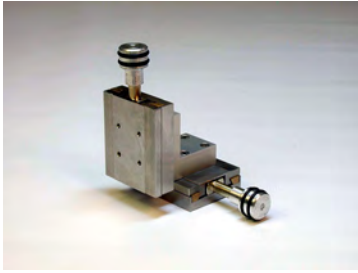
SCALE
 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255-YZ Dual Axis YZ Small Micropositioner



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

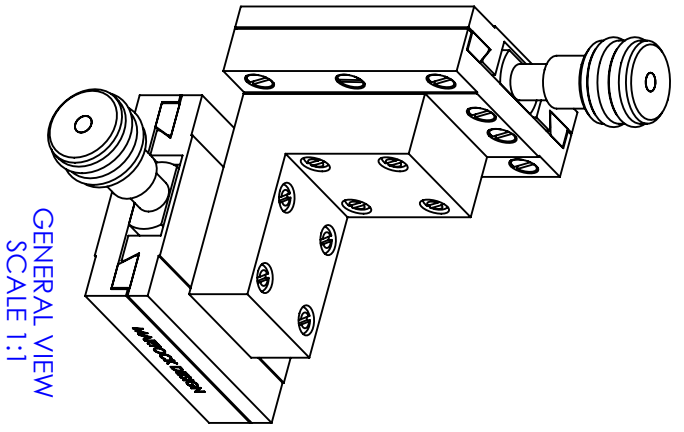
Specifications

Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

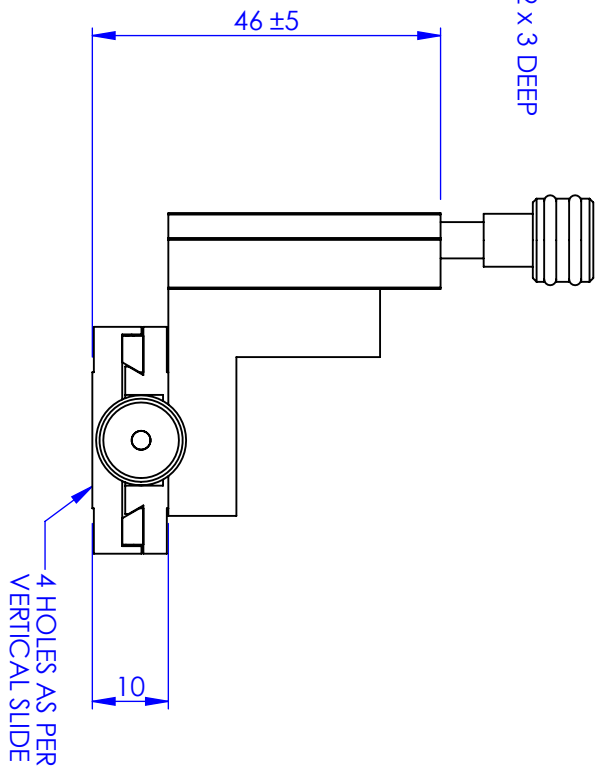
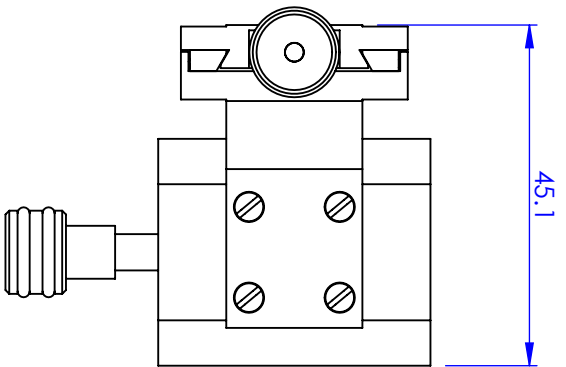
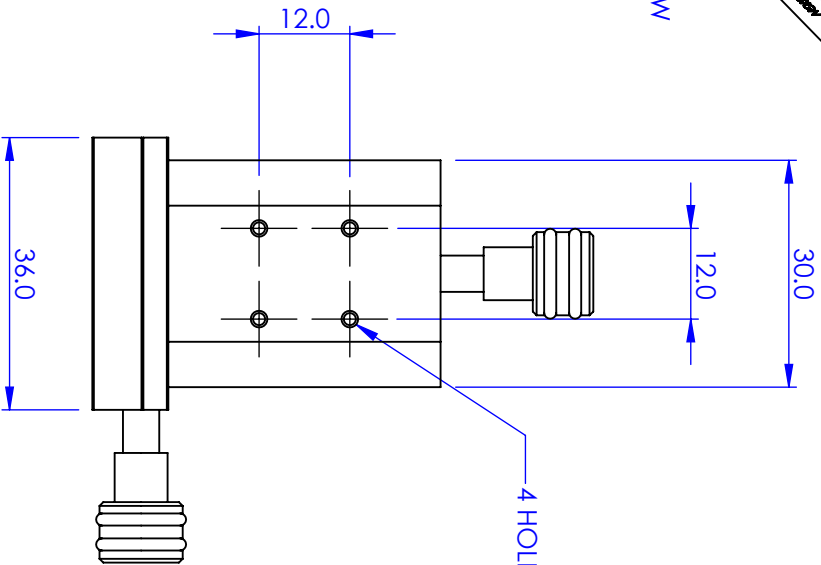
Variants

Lockable travel
Vacuum version
Non-magnetic version

For the latest price, contact us today.



GENERAL VIEW
SCALE 1:1

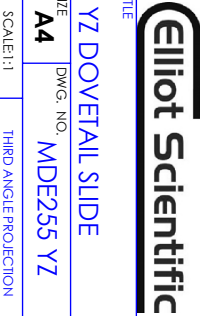


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DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

NAME	DATE
AUTHOR GW	11/05/2010
CHECKED	

TITLE	
MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY	YZ DOVETAIL SLIDE
FINISH	
SIZE A4	DWG. NO. MDEZ55 YZ



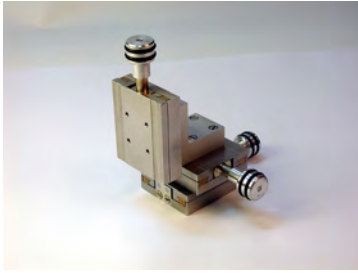
DO NOT SCALE DRAWING

SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

REV.	DESCRIPTION	DATE	APPROVED

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE259 Three Axis XYZ Small Micropositioner



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

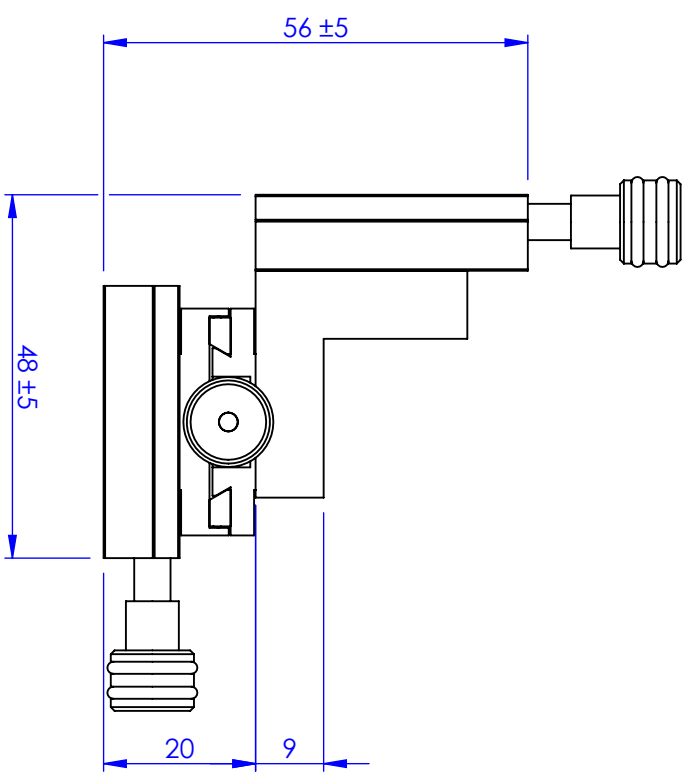
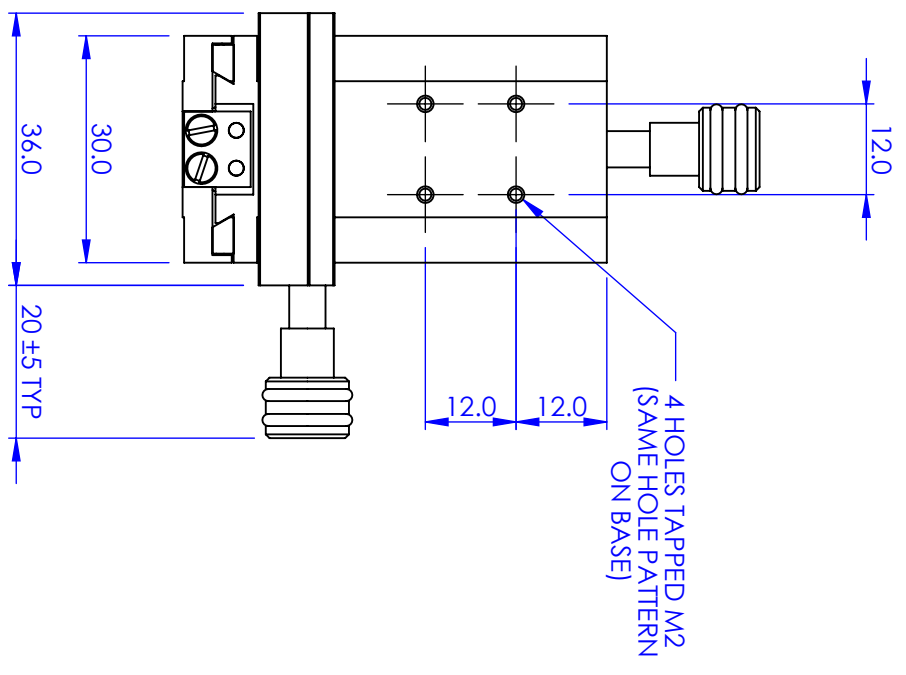
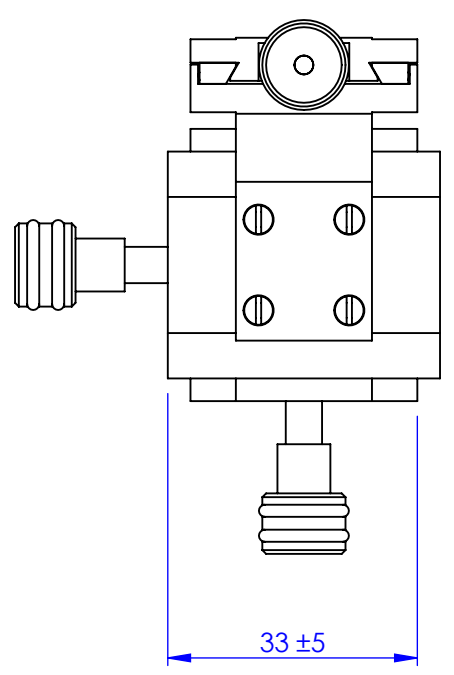
Variants

Lockable travel
Vacuum version
Non-magnetic version

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

ALL THREE AXES ±5mm TRAVEL



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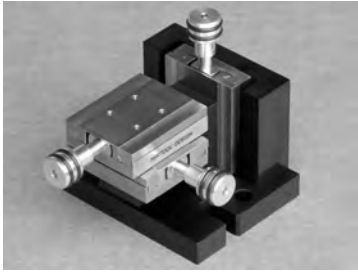
DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

Eliot Scientific	
TITLE	
3-Axis Micropositioner	
SIZE	DWG. NO.
A4	MDE259
DO NOT SCALE DRAWING	SCALE: 1:1
THIRD ANGLE PROJECTION	
SHEET 1 OF 1	

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE850 Three Axis Horizontal Platform



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Adjustable horizontal platform
- Very smooth backlash-free motion

ELLIOT MARTOCK

Specifications

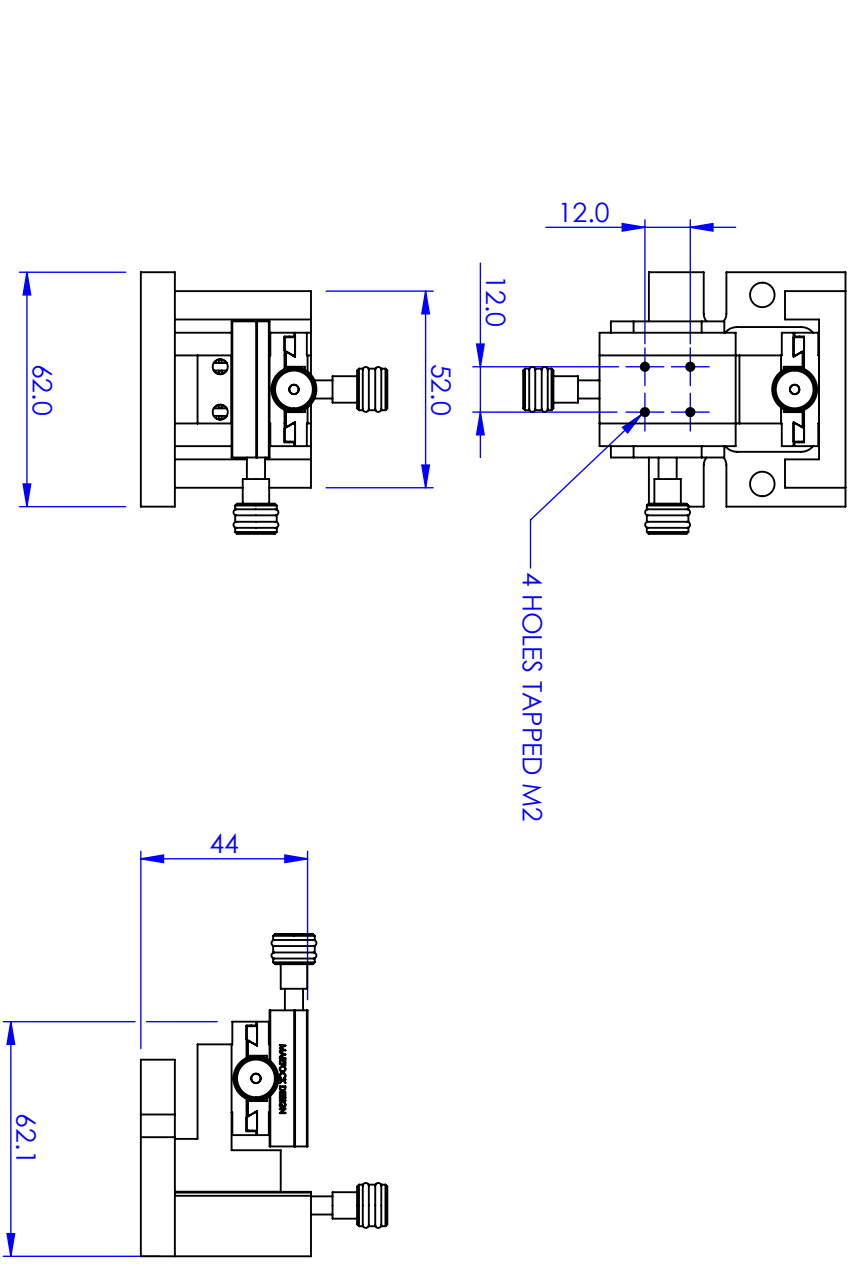
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

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AUTHOR	NAME	DATE
CHECKED	GW	26/09/2010

Eliot Scientific

XYZ MICROPOSITIONER

DWG. NO. **MDE850**

SCALE: 2 THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255M Single Axis Small Micropositioner with Micrometer



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjuster
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

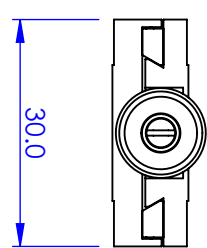
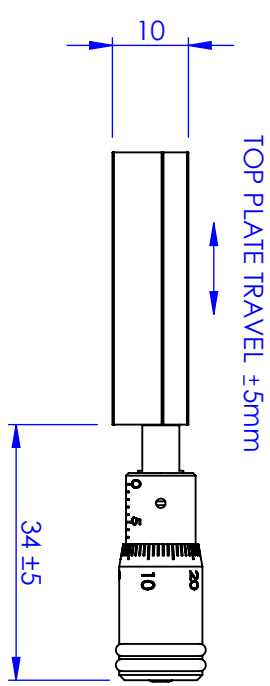
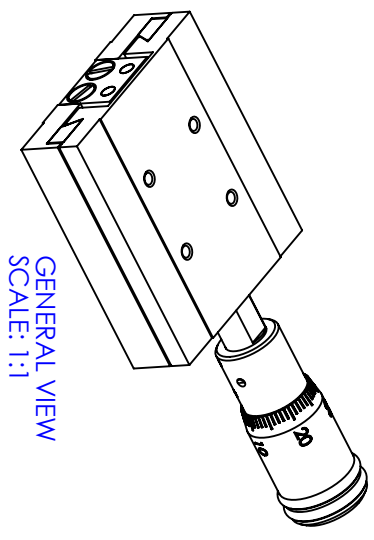
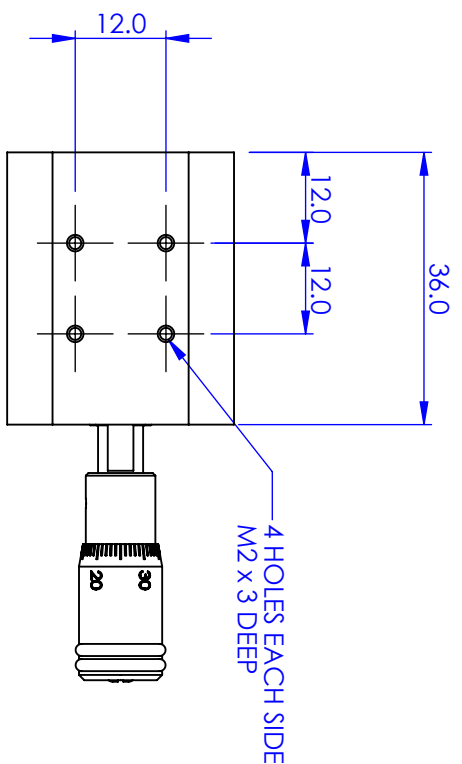
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjuster	Micrometer reading to 0.01 mm

Variants

Lockable travel
Vacuum version
Non-magnetic version

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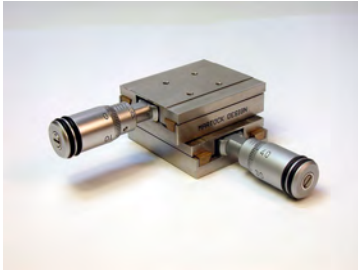
DIMENSIONS ARE IN mm
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 SURFACE FINISH:
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 AND CORNERS TO BE
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NAME	DATE
AUTHOR GW	26/09/2008
CHECKED	

SLIDE WITH MICROMETER	
MATERIAL STAINLESS STEEL, BRASS, ALUM. ALLOY	FINISH ---
SIZE A4	DWG. NO. MDE255M
DO NOT SCALE DRAWING	SCALE: 1:1
THIRD ANGLE PROJECTION	SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE258M Dual Axis XY Small Micropositioner with Micrometers



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

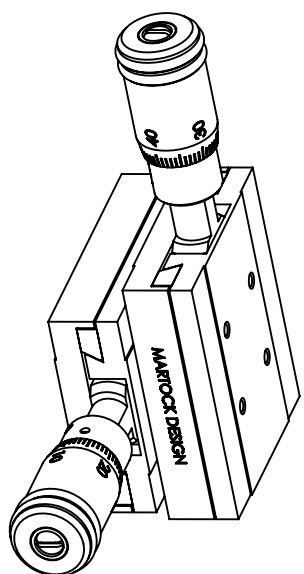
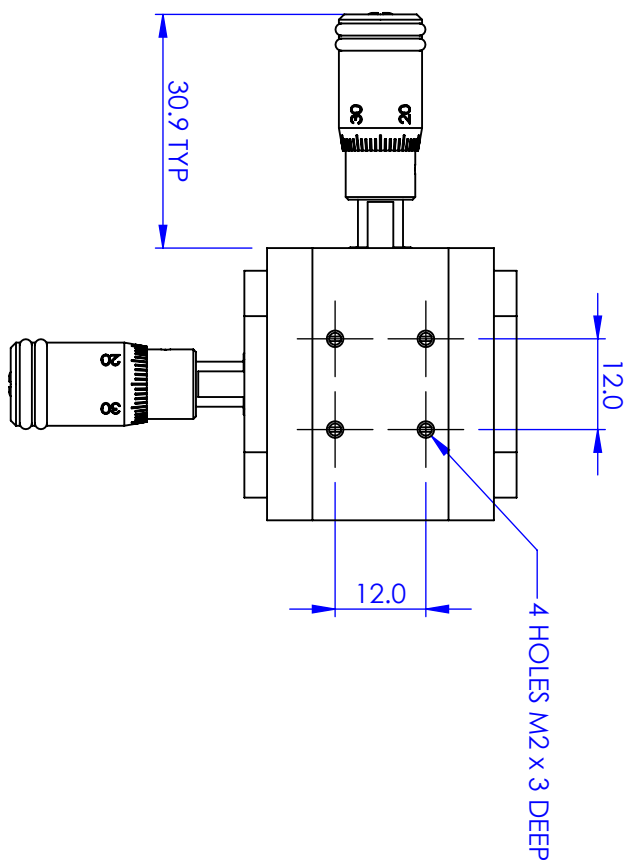
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

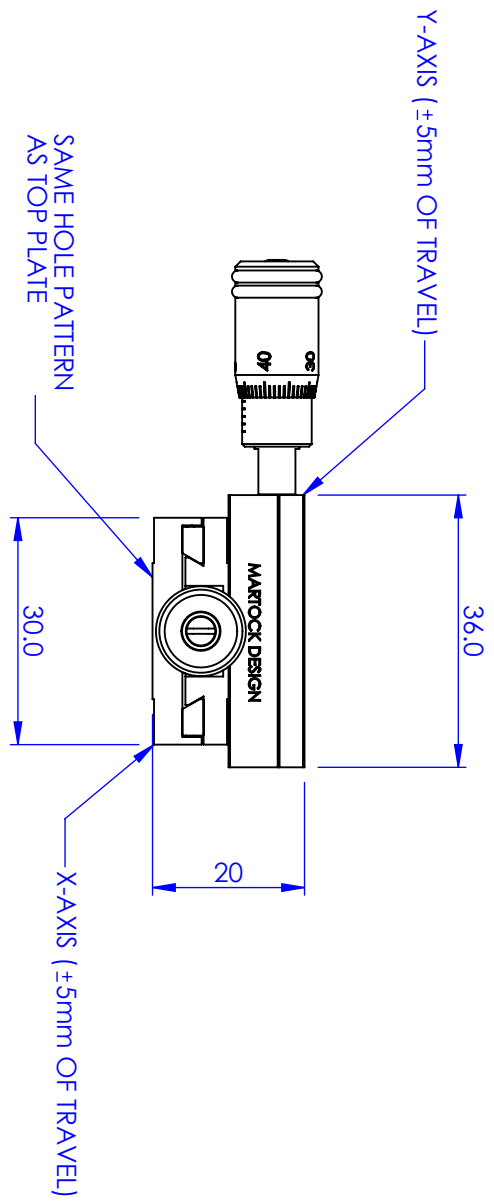
Lockable travel
Vacuum version
Non-magnetic version

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GENERAL VIEW
SCALE: 1:1



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AUTHOR	NAME	DATE
CHECKED	GW	25/05/2010

MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY		FINISH ---	
Eliot Scientific			
TITLE 2 AXIS MICROPOSITIONER		SIZE A4	DWG. NO. MDEF258M
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255M-XZ Dual Axis XZ Small Micropositioner with Micrometers



ELLIOT MARTOCK

- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Slide surfaces precision lapped in matched pairs

Specifications

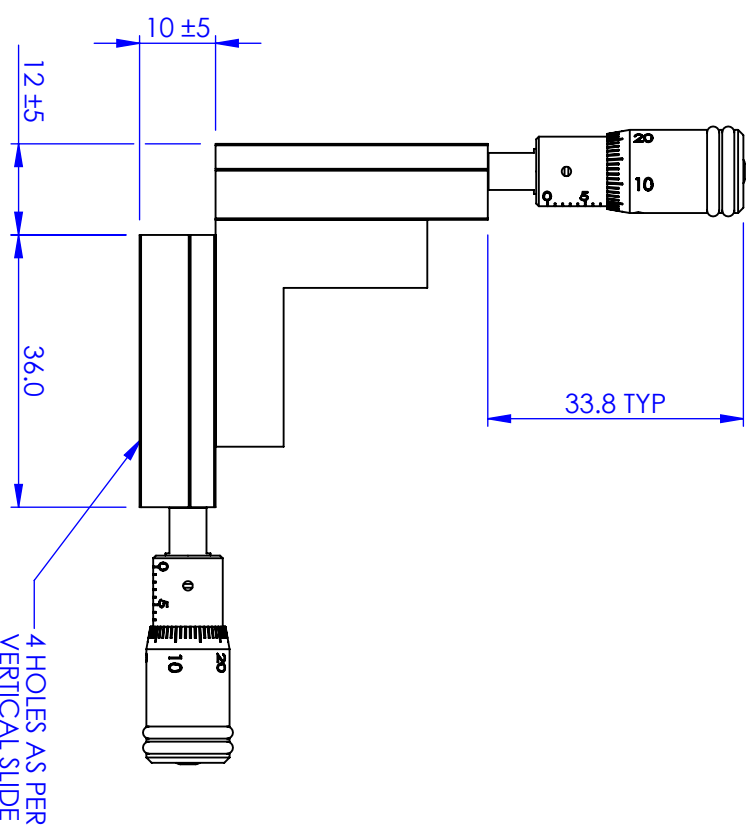
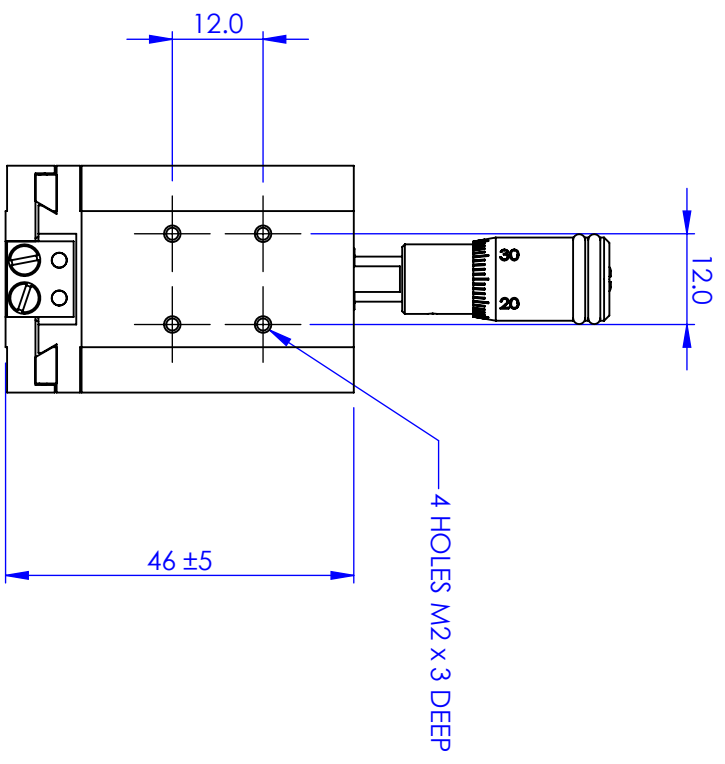
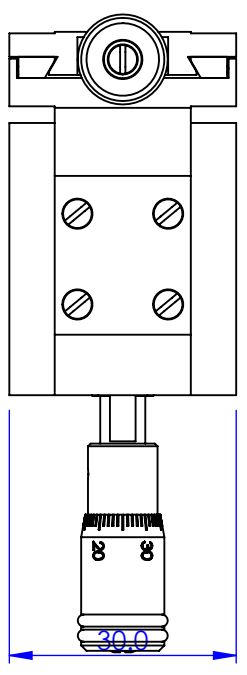
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

Lockable travel
Vacuum version
Non-magnetic version

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REVISIONS		DATE	APPROVED
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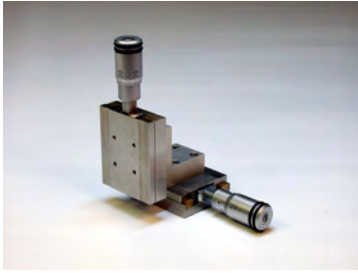
DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
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AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

Eliot Scientific	
TITLE	
XZ DOVETAIL SLIDE	
SIZE	DWG. NO.
A4	MDEZ55M-XZ
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255M-YZ Dual Axis YZ Small Micropositioner with Micrometers



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

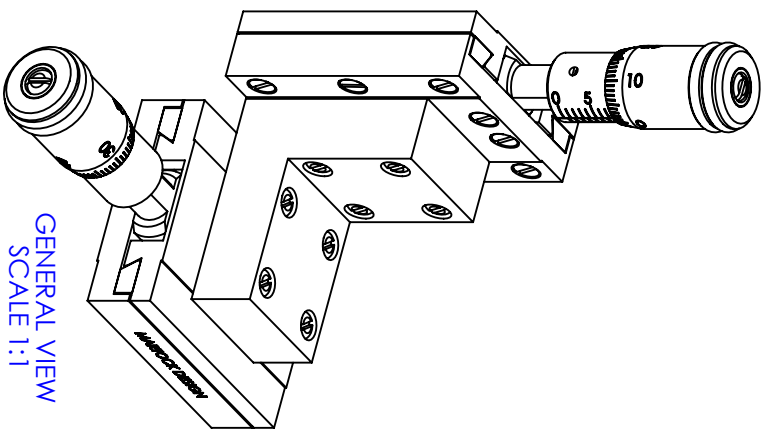
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

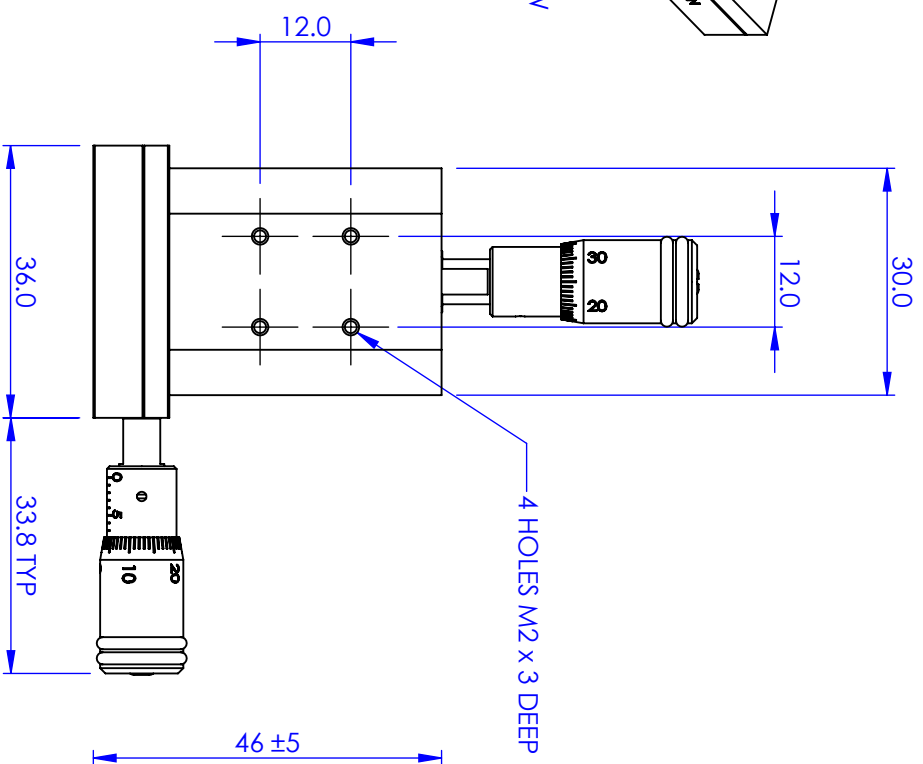
Lockable travel
Vacuum version
Non-magnetic version

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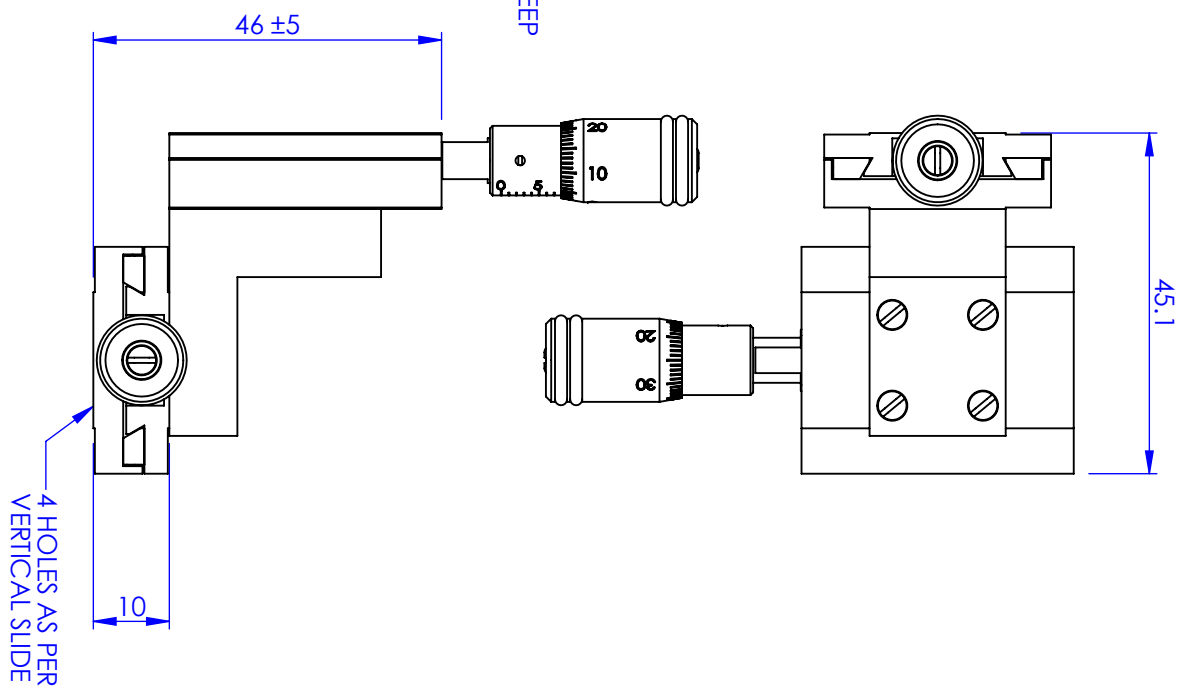
REV.	DESCRIPTION	DATE	APPROVED



GENERAL VIEW
SCALE 1:1



4 HOLES M2 X 3 DEEP



4 HOLES AS PER
VERTICAL SLIDE

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AUTHOR	NAME	DATE
CHECKED	GW	11/05/2010

YZ DOVETAIL SLIDE	
MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY	FINISH ---
SIZE A4	DWG. NO. MDE255M-YZ
DO NOT SCALE DRAWING	SCALE: 1:1
THIRD ANGLE PROJECTION	SHEET 1 OF 1

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE259M Three Axis XYZ Small Micropositioner with Micrometers



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Micrometer adjusters
- Slide surfaces precision lapped in matched pairs

ELLIOT MARTOCK

Specifications

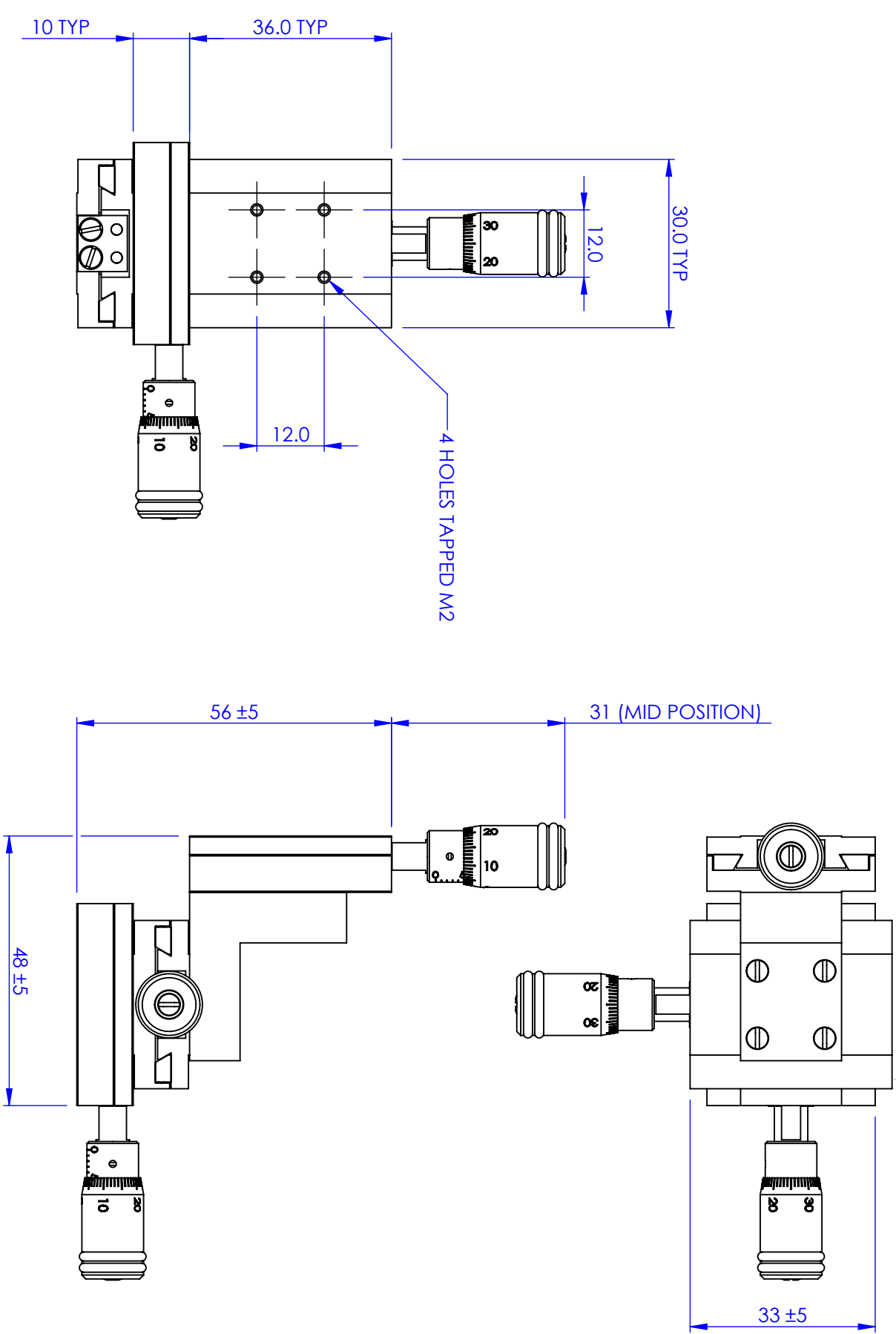
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

Lockable travel
Vacuum version
Non-magnetic version

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 AND CORNERS TO BE
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AUTHOR	NAME	DATE
CHECKED	GW	26/05/2010

MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY		FINISH ---	
TITLE 3-Axis Micropositioner		SIZE A4	DWG. NO. MDE259M
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Manual Positioners: Small Linear Stages: 10 mm Travel

MDE850M Three Axis Horizontal Platform with Micrometers



- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Adjustable horizontal platform
- Micrometer adjuster
- Very smooth backlash-free motion

ELLIOT MARTOCK

Specifications

Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

Lockable travel
Vacuum version
Non-magnetic version

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Elliot Scientific

Manual Positioners: Small Linear Stages: Adaptors

MDE252 Spigot for use with Centreing Micropositioners

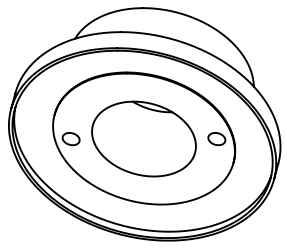


- Mounting spigot
- Compatible with Microbench from Spindler & Hoyer/Linos
- Photonics

ELLIOT MARTOCK

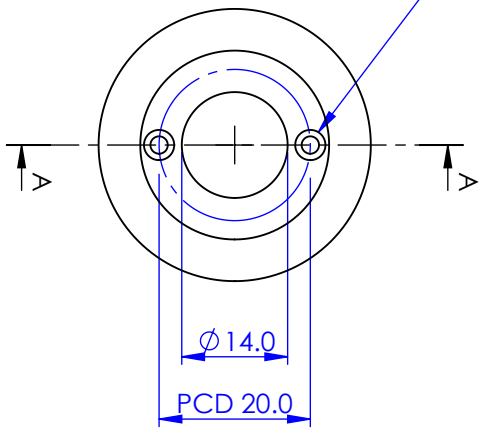
For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

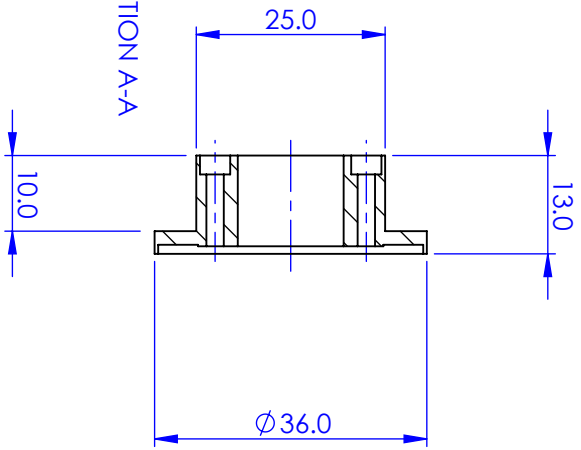


GENERAL VIEW
SCALE 1:1

2 HOLES COUNTERBORED
FOR M2



SECTION A-A



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 SURFACE FINISH:
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 AND CORNERS TO BE
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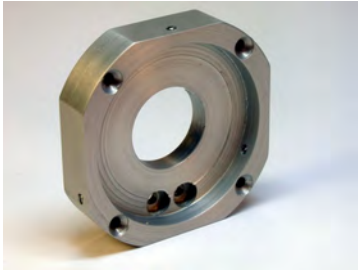
NAME	DATE
AUTHOR GW	24/03/2010
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MATERIAL ALUMINIUM ALLOY		TITLE SPIGOT ADAPTER	
FINISH ANODISED CLEAR		SIZE A4	DWG. NO. MDE252
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Manual Positioners: Small Linear Stages: Adaptors

MDE253 Micropositioner Adaptor Plate



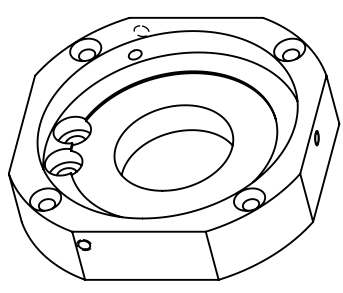
- Use with any MDE25x Series Micropositioner
- Allows external mounting via M2 screws

ELLIOT MARTOCK

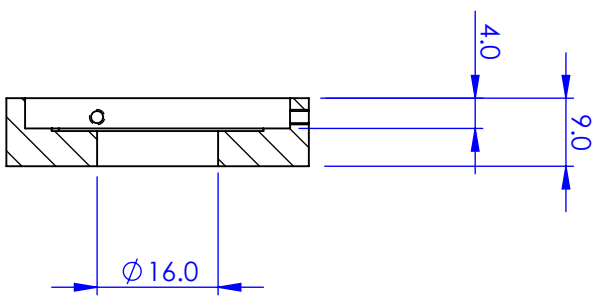
Adaptor plate for mounting MDE250 series centring and XY positioners using grub screws. The adaptor plate has 4 x 2.2 mm countersunk holes which accept M2 screws for attachment to external mount.

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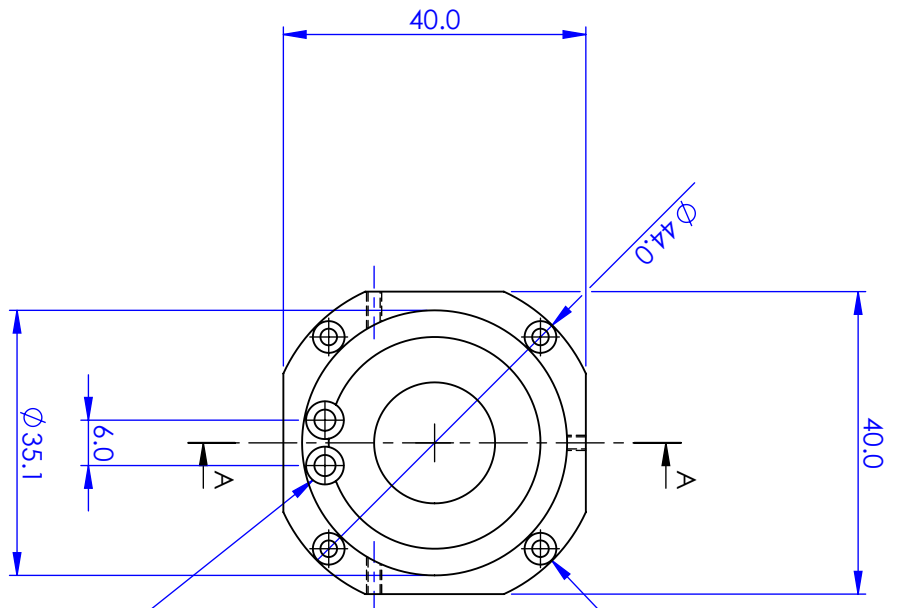
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE 1:1



SECTION A-A



4 HOLES FOR M2
COUNTERSUNK SCREWS

2 HOLES COUNTERBORED
FOR M2.5 SCREWS

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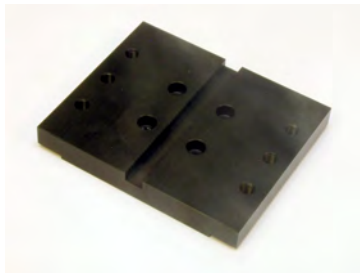
NAME	DATE
AUTHOR GW	24/03/2010
CHECKED	

MATERIAL ALUMINIUM ALLOY		TITLE ADAPTER PLATE	
FINISH CLEAR ANODISED		SIZE A4	DWG. NO. MDE253
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION



Manual Positioners: Small Linear Stages: Accessory

MDE851 Micropositioner Accessory Platform



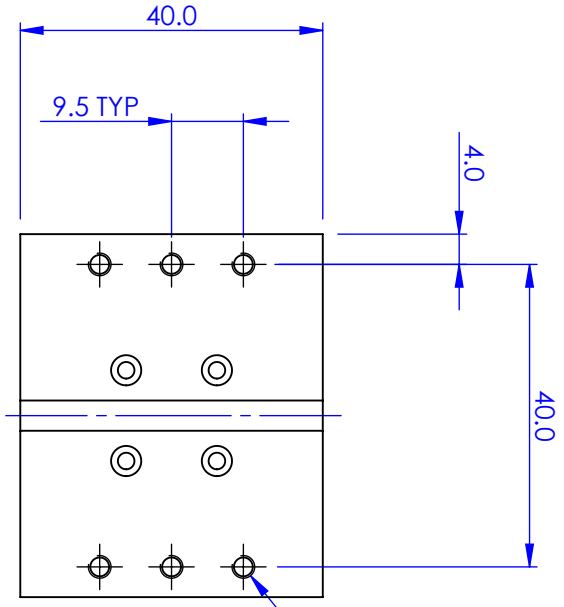
- Use with MDE850 or MDE850M
- Improves component stability

ELLIOT MARTOCK

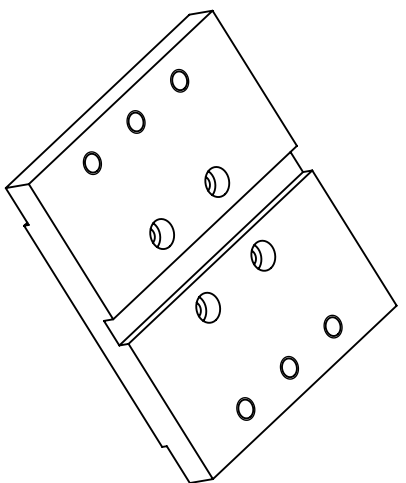
Accessory platform for use as an option with the MDE850 and MDE850M horizontal platform three axis XYZ micropositioners. It provides a stable large area platform for mounting XYZ Flexure Stage components.

For the latest price, contact us today.

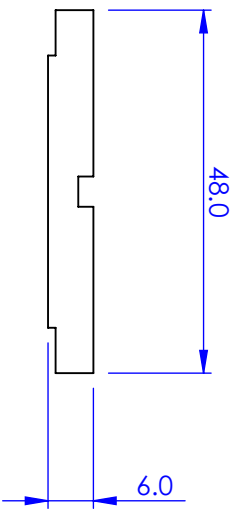
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



6 HOLES TAPPED M3 THROUGH



GENERAL VIEW
SCALE: 1:1



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 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	26/09/2010

MATERIAL		TITLE	
ALUM ALLOY		PLATFORM FOR MDE850	
FINISH	SIZE	DWG. NO.	
ANODISED BLACK	A4	MDE851	
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
		SHEET 1 OF 1	



Manual Positioners: Small Linear Stages: Fibre Accessories

MDE722 Fibre Holder (Mechanical) with Spigot



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- Holds 125/250 μm fibre with a jacket up to 1 mm diameter
- Clamp arm swings clear of V-groove for easy loading of fibre
- Includes 11 mm dia spigot for mating to centreing micropositioners

ELLIOT MARTOCK

The model MDE722 Fibre Holder features a double V-groove and single clamp arm to hold 125/250 μm fibre with a jacket up to 1mm diameter. The clamp arms swing clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use.

The fibre holder is fitted with an 11 mm diameter spigot that mates with the MDE250 series centreing micropositioners. The spigot is slotted for easy insertion of the fibre and the clamp arms can be fitted on either side of the V-groove.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

Specifications

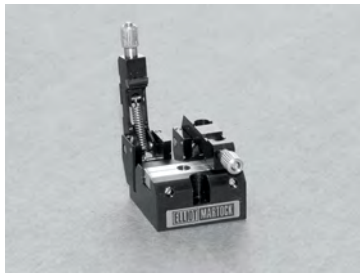
Configuration	Double V-groove and clamp arms for cladding and jacket
Fibre size	125/250 μm fibre with up to 1 mm jacket
Fibre clamp	Double clamp arms with adjustable force. Clamp arms can be fitted either side of V-groove
Clamp force	Adjustable from 25 to 125 g
Mount	11mm spigot to fit centreing mount models: MDE251, MDE250-S, MDE257, MDE257M, MDE276, MDE276M, MDE277, MDE277M

Options

Custom sized V-grooves

For the latest price, contact us today.

MDE723 Fibre Holder (Mechanical) for MDE255 & MDE260 Series Positioners



- Very easy to use
- Clamp force adjustable from 25 to 125 g
- Contact point on fibre is a resilient pad
- 125/250 μm fibre with a jacket up to 1 mm diameter
- Clamp arm swings clear of V-groove for easy loading of fibre
- Mounts MDE255/MDE260 series dovetail slide micropositioners



The model MDE723 Fibre Holder features a double V-groove and clamp arms to hold 125/250 μm fibre with a jacket up to 1 mm diameter. The clamp arms swing clear of the V-groove, and the clamp forces can be adjusted from 25 to 125 g, making the unit very easy to use.

The fibre holder fits MDE255 Series and MDE260 Series positioners (except models MDE257 & MDE257M), and can also be post mounted.

A comprehensive range of fibre holders using vacuum, magnet or spring-loaded clamps is available. User replaceable V-grooves enable the user to work with different fibre sizes economically. Custom grooves are our speciality.

Specifications

Configuration	Double V-groove and clamp arms for cladding and jacket
Fibre size	125/250 μm fibre with up to 1 mm jacket
Fibre clamp	Double clamp arms with adjustable force
Clamp force	Adjustable from 25 to 125 g
Optical Axis	11 mm centre height
Mount	M4 hole on base for post mounting Fits MDE255 Series and MDE260 series positioners (except models MDE257 & MDE257M). Supplied with mounting screws

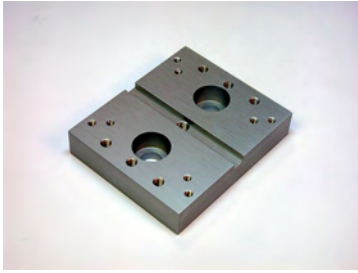
Options

- Custom sized V-grooves
- MDE255 series and MDE260 series micropositioners

For the latest price, contact us today.

Manual Positioners: Small Linear Stages: Fibre Accessories

MDE860 MDE709 Fibre Holder Adaptor

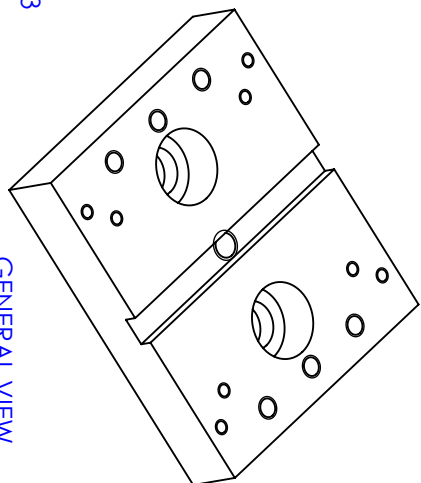


ELLIOT MARTOCK

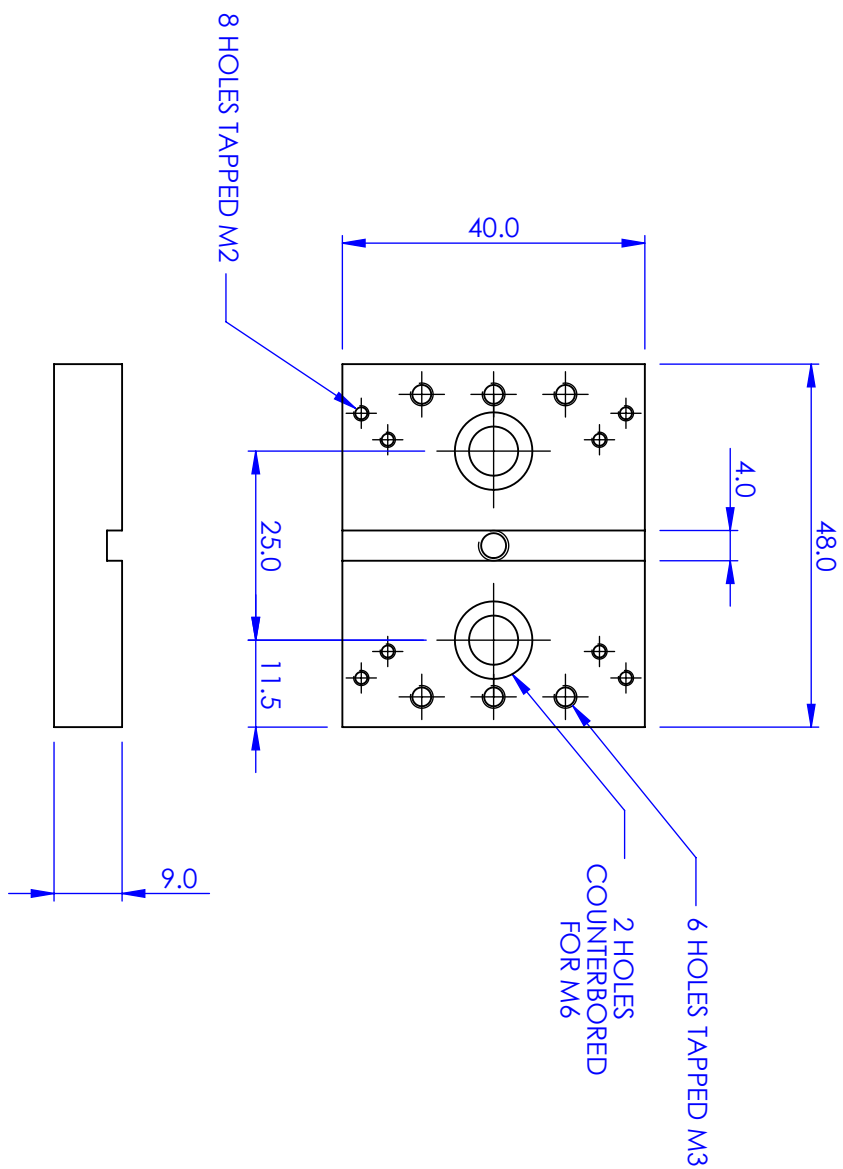
This adaptor mounts the MDE709 fibre holder on to a conventional 25 mm pitch optical table or an M4 post.

For the latest price, contact us today.

REV.	DESCRIPTION	DATE	APPROVED



GENERAL VIEW
SCALE: 1:1



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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
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AUTHOR	NAME	DATE
CHECKED	GW	25/05/2010

MATERIAL		TITLE	
ALUM. ALLOY		ADAPTER PLATE	
FINISH	SIZE	DWG. NO.	
---	A4	MDE860	
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1



Opto-Mechanics 2012

Centring Micropositioners





Manual Positioners: Centring Micropositioners

MDE250-S XY Simple Centring Micropositioner



- Travel ± 1 mm
- Stainless steel body
- Simple centring screw design
- For use where space is limited
- Wide range of configurations
- Very smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits small laser diodes)

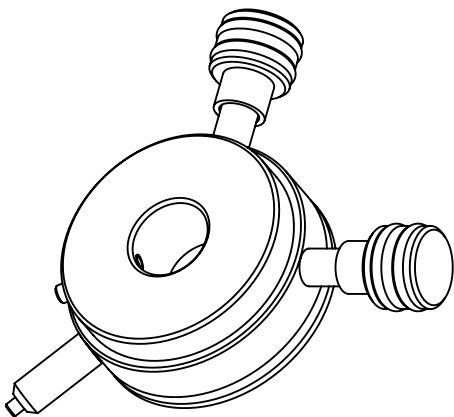
ELLIOT MARTOCK

Specifications

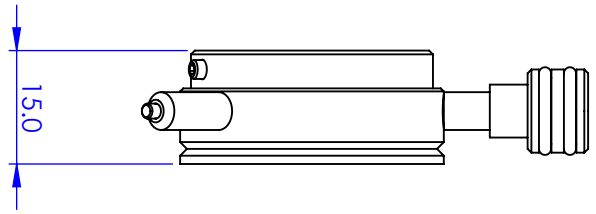
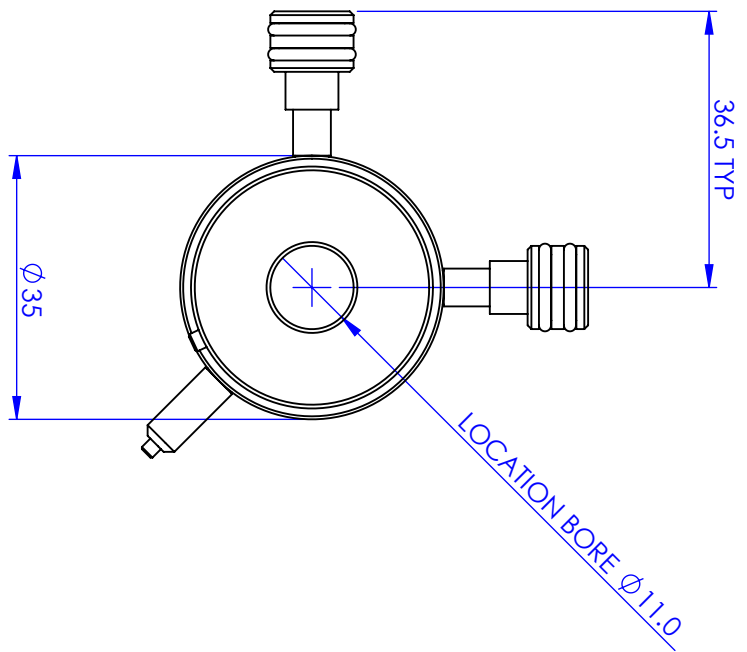
Travel	± 1 mm X and Y
Sensitivity	$< 2 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	11 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

For the latest price, contact us today.

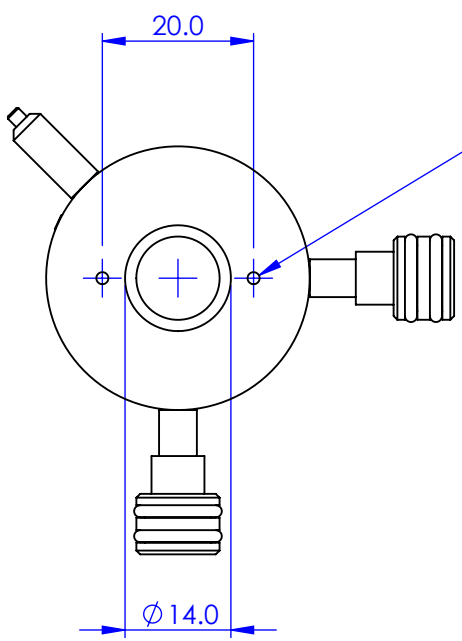
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



± 1mm X&Y TRAVEL



2 HOLES TAPPED M2



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AUTHOR	NAME	DATE
CHECKED	GW	23/03/2010

MATERIAL STAINLESS STEEL		FINISH ---	
TITLE Elliot Scientific		SCALE: 1:1	
CENTRING MOUNT		SIZE A4	DWG. NO. MDE2505
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
		SHEET 1 OF 1	

Manual Positioners: Centring Micropositioners

MDE250-S-15 XY Simple Centring Micropositioner (Large Bore)



- Travel ± 1 mm
- Stainless steel body
- Simple centring screw design
- For use where space is limited
- Wide range of configurations
- Very smooth backlash-free motion
- Large 15 mm \varnothing bore

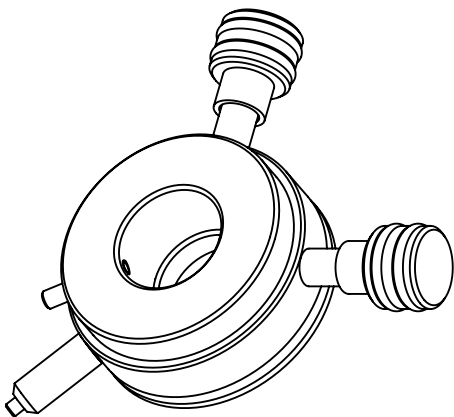
ELLIOT MARTOCK

Specifications

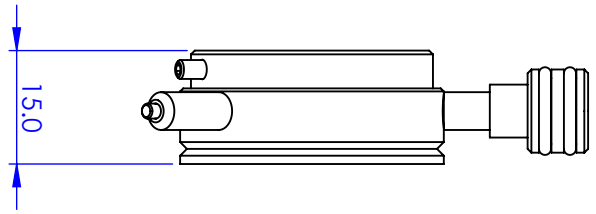
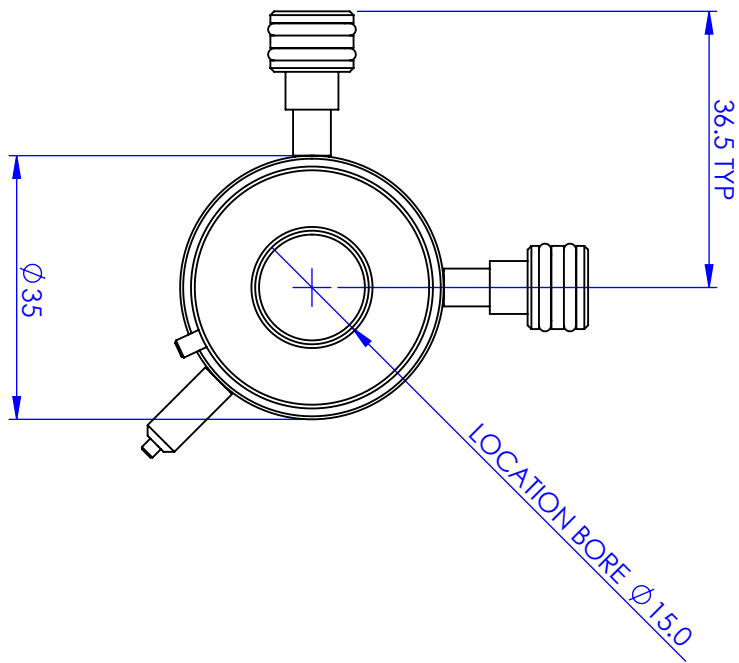
Travel	± 1 mm X and Y
Sensitivity	$< 2 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	15 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

For the latest price, contact us today.

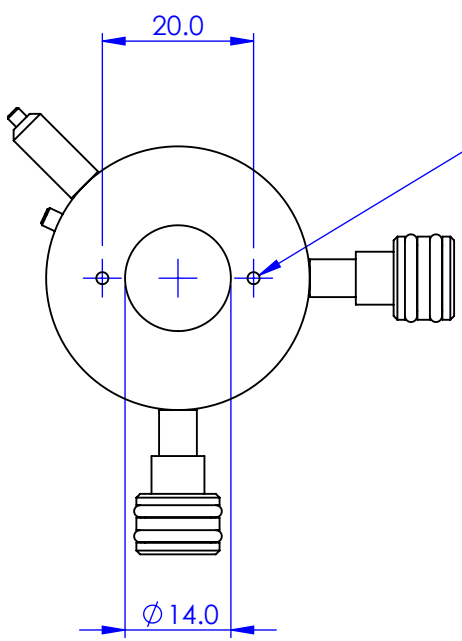
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REV.	DESCRIPTION		



± 1mm X&Y TRAVEL



2 HOLES TAPPED M2



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AUTHOR	NAME	DATE
CHECKED	GW	23/03/2010

MATERIAL STAINLESS STEEL		FINISH ---	
TITLE Elliott Scientific		SCALE: 1:1	
CENTRING MOUNT		SIZE A4	DWG. NO. MDE250-S-15
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
		SHEET 1 OF 1	

Manual Positioners: Centreing Micropositioners

MDE257 XYZ Simple Centreing Micropositioner



- X & Y centreing positioner
- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Standard 11 mm Ø bore (suits small laser diodes)
- Optional 15 mm bore model MDE257-15



Three axis XYZ micropositioner comprising MDE255 single axis positioner and MDE254 bracket fitted with MDE251 centreing positioner.

Specifications

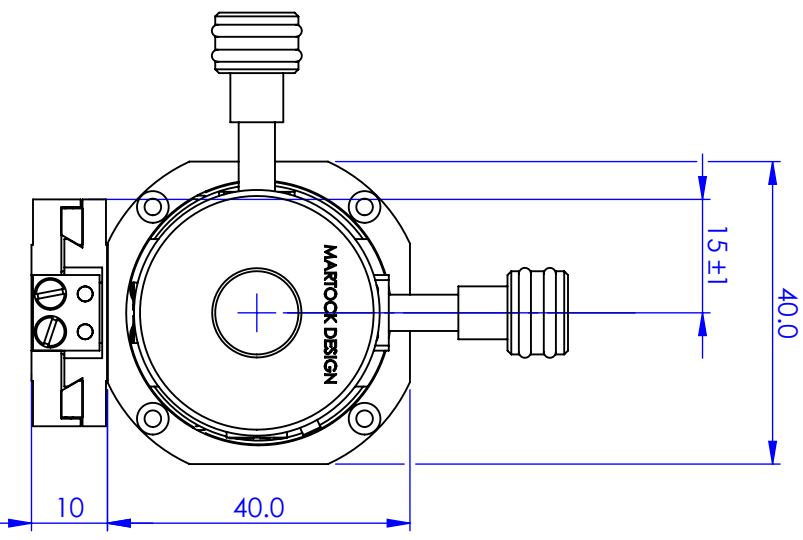
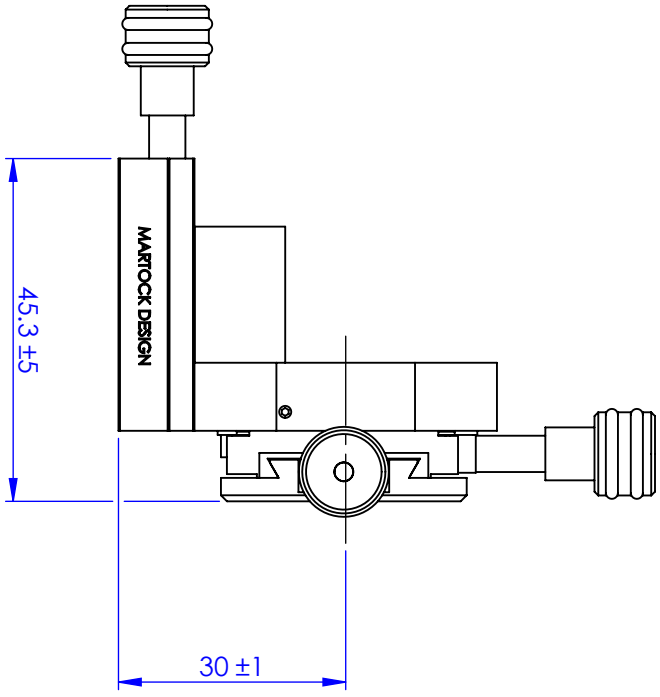
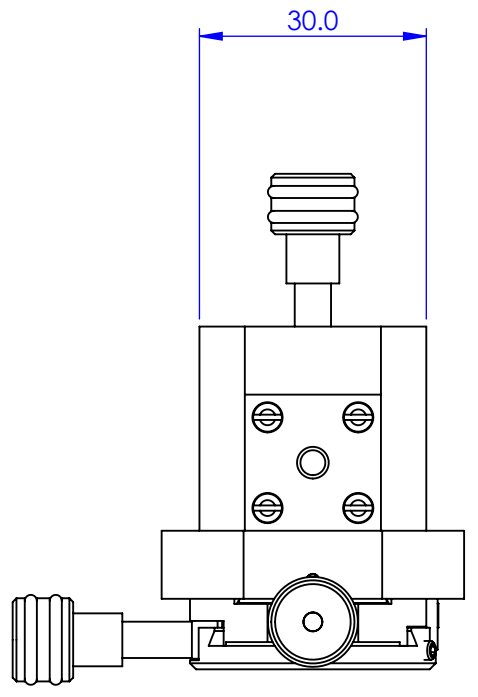
X-axis travel	10 mm
X-axis sensitivity	< 0.5 μm
Z & Y-axis travel	$\pm 1\text{mm}$
Adjusters	0.25 pitch
Z & Y-axis location bore	11 mm \varnothing , 5 mm deep

Options

MDE257-15 Large Bore Model
 Vacuum version
 Non-magnetic version

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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AUTHOR	NAME	DATE
CHECKED	GW	12/01/2007

MATERIAL: STAINLESS STEEL, BRASS, ALUM, ALLOY
 FINISH: ---

Eliot Scientific

TITLE: XYZ MICROPOSITIONER

SIZE: A4 DWG. NO. MDE257

SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Manual Positioners: Centreing Micropositioners

MDE257M XYZ Simple Centreing Micropositioner with Micrometers



- Micrometer adjusters
- Stainless steel body
- Small dovetail slides
- X & Y centreing positioner
- Wide range of configurations
- Very smooth backlash-free motion
- Standard 11 mm Ø bore (suits small laser diodes)
- Optional 15 mm bore model MDE257M-15

ELLIOT MARTOCK

Three-axis, micrometer adjusted XYZ micropositioner comprising MDE255M single axis positioner and MDE254 bracket fitted with MDE251M centreing positioner.

Specifications

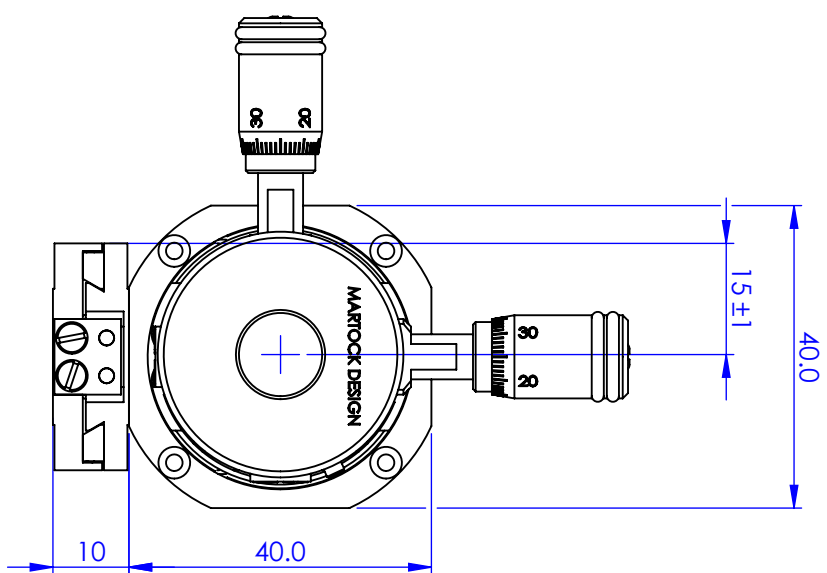
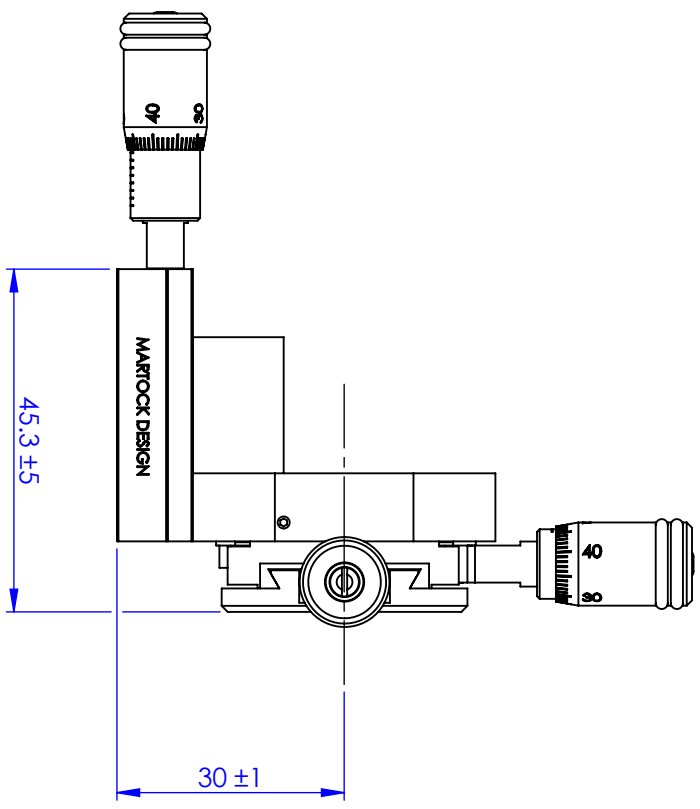
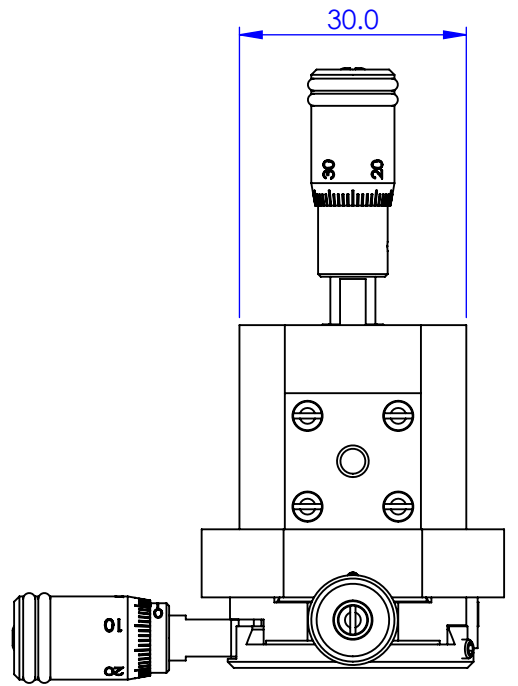
X-axis travel	10 mm
X-axis sensitivity	< 0.5 µm
Z & Y-axis travel	± 1mm
Micrometer scales	0.01 mm
Z & Y-axis location bore	11 mm Ø, 5 mm deep

Options

MDE257M-15 Large Bore Model
 Vacuum version
 Non-magnetic version

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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NAME	DATE
AUTHOR	12/01/2007
CHECKED	

Eliot Scientific

XYZ MICROPOSITIONER

MATERIAL: STAINLESS STEEL, BRASS, ALUM. ALLOY

FINISH: ---

SIZE: **A4**

DWG. NO.: **MDE257M**

SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Centreing Micropositioners

MDE251 XY Precision Centreing Micropositioner



- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits small laser diodes)



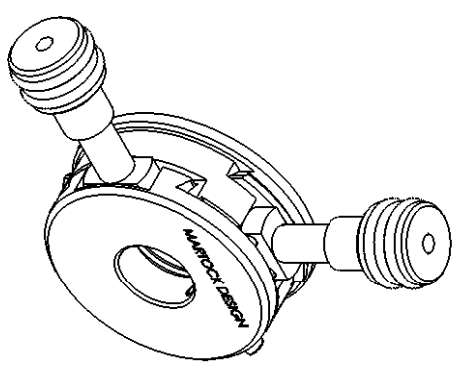
Specifications

Travel	± 1 mm X and Y
Sensitivity	$< 0.5 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	11 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

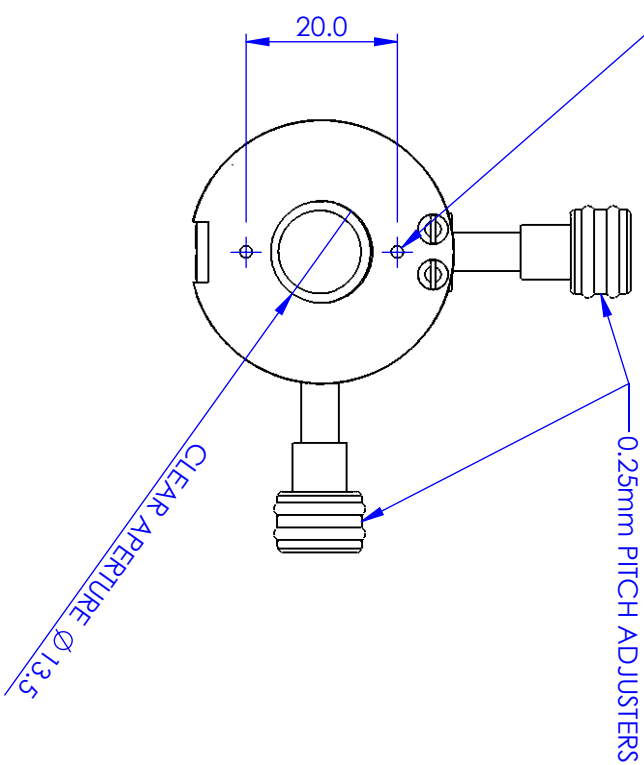
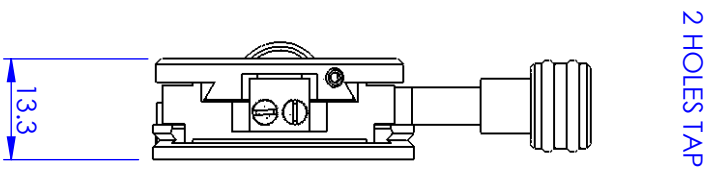
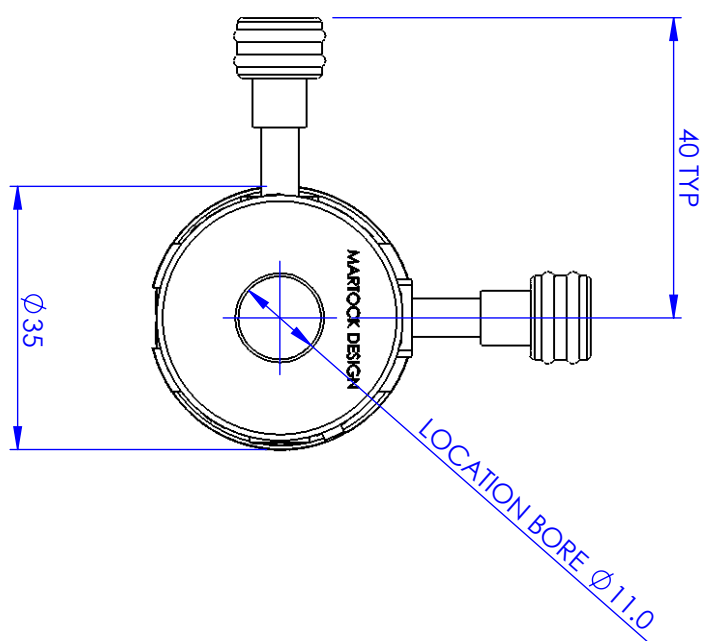
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±1mm X & Y TRAVEL DOVETAIL SLIDES



GENERAL VIEW
SCALE: 1:1



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AUTHOR	NAME	DATE
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MATERIAL STAINLESS STEEL		TITLE PRECISION XY MICROPOSITIONER
FINISH AL. ALLOY/AL. BRONZE		
SIZE A4	DWG. NO. MDE251	
DO NOT SCALE DRAWING	SCALE: 1:1	THIRD ANGLE PROJECTION
		SHEET 1 OF 1



Manual Positioners: Centreing Micropositioners

MDE251-15 XY Precision Centreing Micropositioner (Large Bore)



- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Large 15 mm \varnothing bore



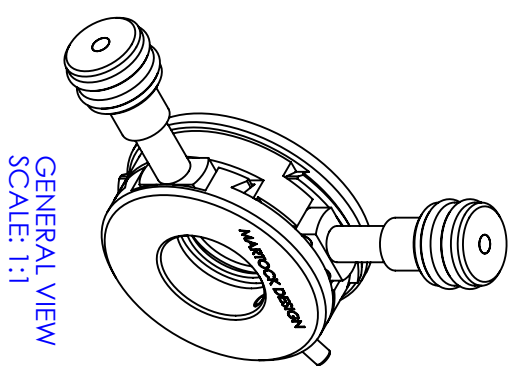
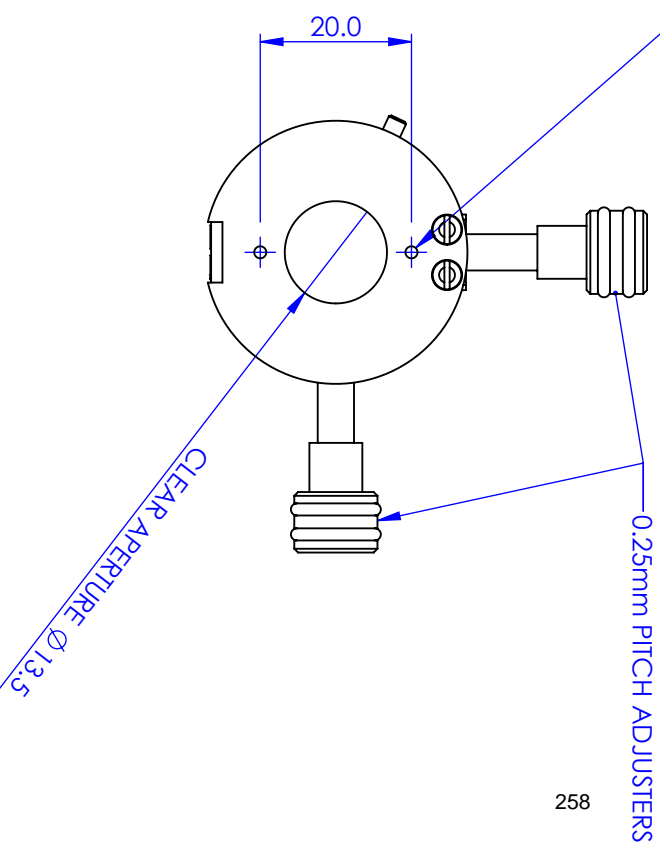
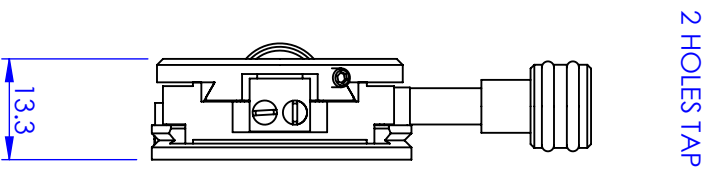
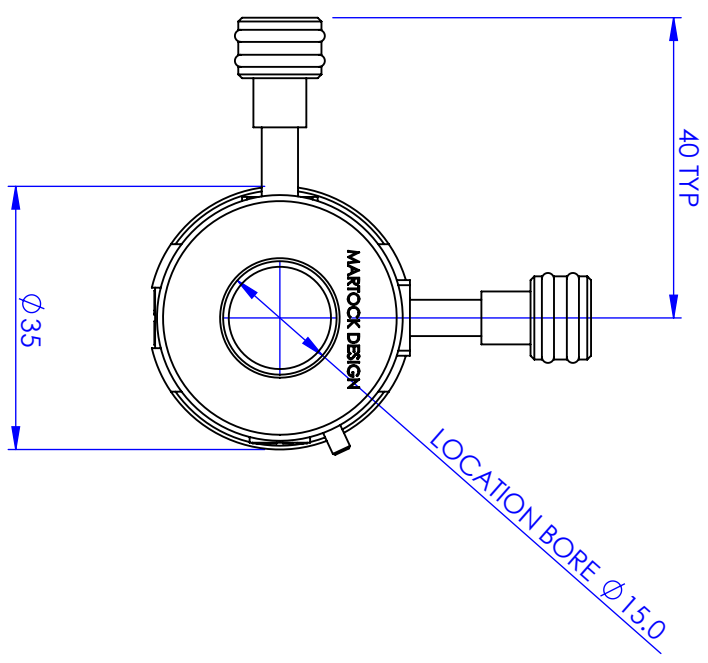
Specifications

Travel	± 1 mm X and Y
Sensitivity	$< 0.5 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	15 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

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REV.	DESCRIPTION	DATE	APPROVED

±1mm X & Y TRAVEL DOVETAIL SLIDES



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NAME	DATE
AUTHOR GW	25/03/2010
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MATERIAL STAINLESS STEEL	Eliot Scientific TITLE PRECISION XY MICROPOSITIONER
FINISH AL ALLOY/AL. BRONZE	
SIZE A4	DWG. NO. MDE251-15
DO NOT SCALE DRAWING	SCALE: 1:1
	THIRD ANGLE PROJECTION
	SHEET 1 OF 1

Manual Positioners: Centreing Micropositioners

MDE251M XY Precision Centreing Micropositioner with Micrometers (Large Bore)



ELLIOT MARTOCK

- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Micrometer adjusters
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits small laser diodes)

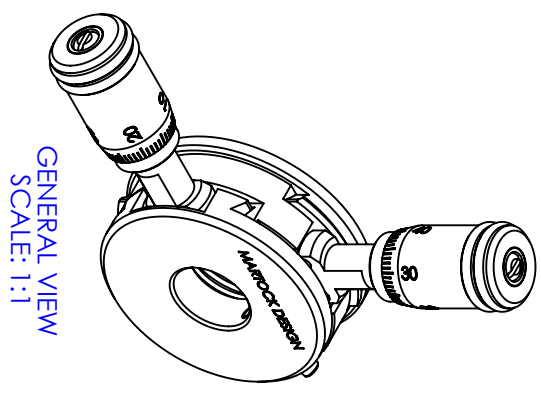
Specifications

Travel	± 1 mm X and Y
Micrometer scale	0.01 mm
Bore diameter	11 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

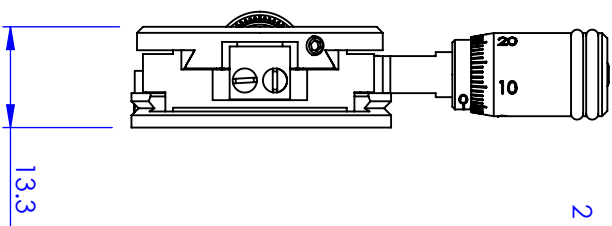
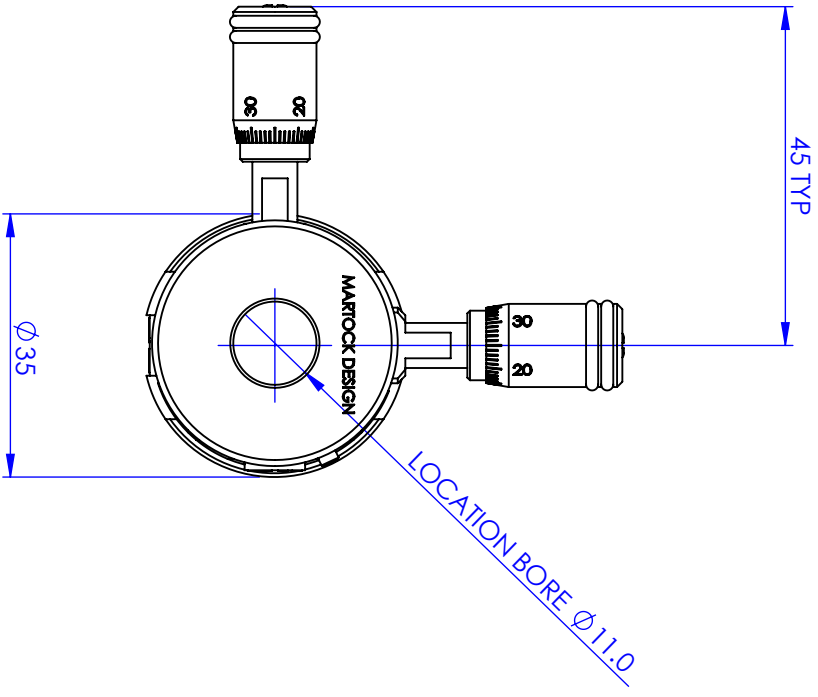
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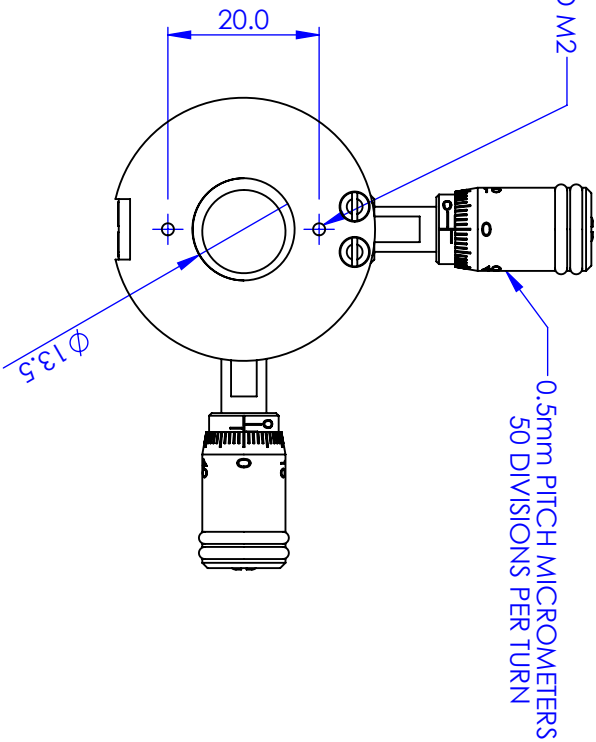
±1mm X & Y TRAVEL DOVETAIL SLIDES



GENERAL VIEW
SCALE: 1:1



2 HOLES TAPPED M2



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 AND CORNERS TO BE
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AUTHOR	NAME	DATE
CHECKED	GW	25/05/2010

MATERIAL STAINLESS STEEL		Eliot Scientific PRECISION XY MICROPOSITIONER
FINISH AL. ALLOY/AL. BRONZE		
SIZE A4	DWG. NO. MDE251M	
DO NOT SCALE DRAWING	SCALE: 1:1	THIRD ANGLE PROJECTION
		SHEET 1 OF 1

Manual Positioners: Centreing Micropositioners

MDE251M-15 XY Precision Centreing Micropositioner with Micrometers (Large Bore)



ELLIOT MARTOCK

- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Micrometer adjusters
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Large 15 mm \varnothing bore

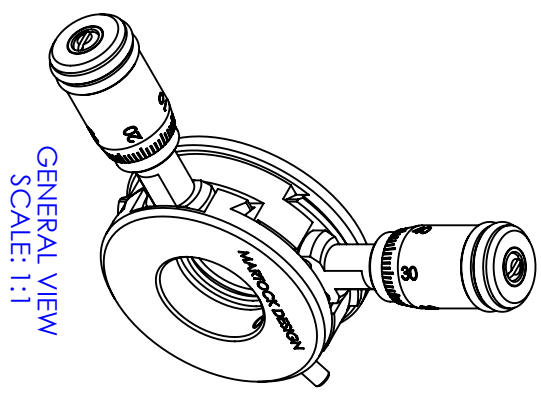
Specifications

Travel	± 1 mm X and Y
Micrometer scale	0.01 mm
Bore diameter	15 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

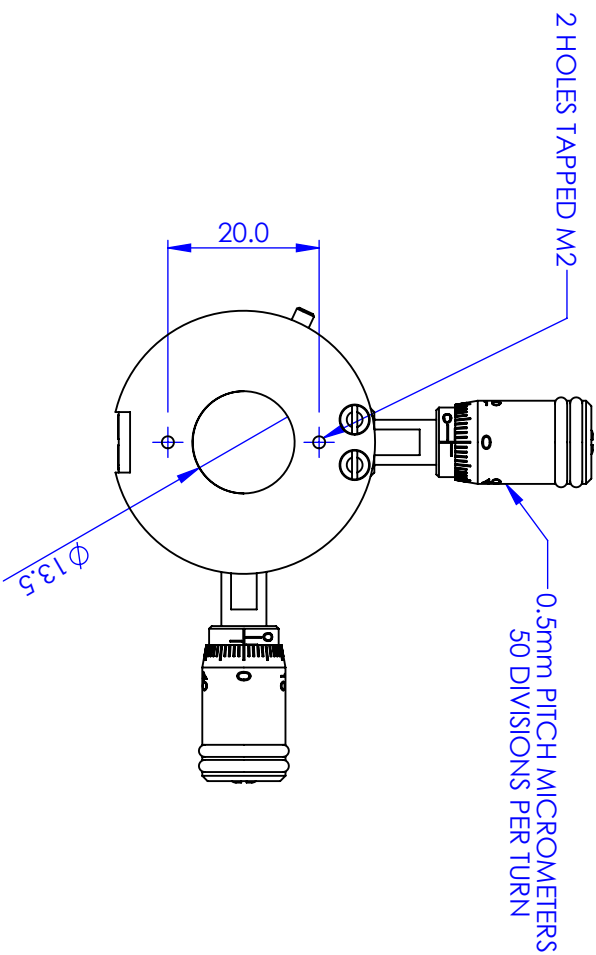
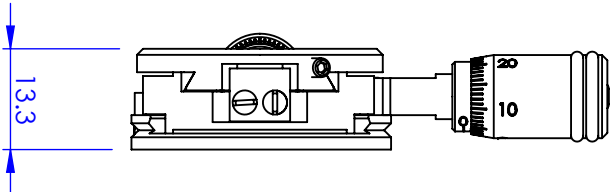
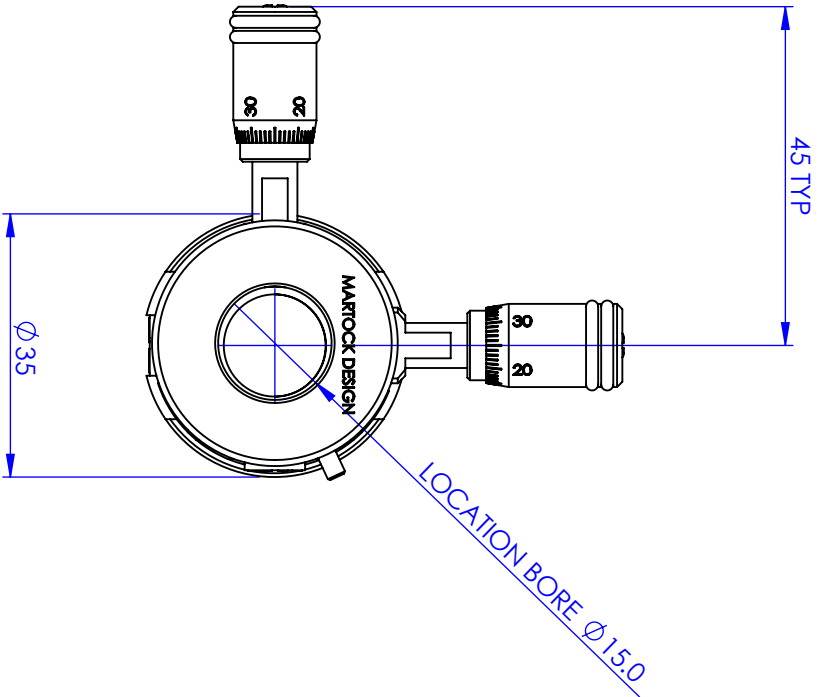
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±1mm X & Y TRAVEL DOVETAIL SLIDES



GENERAL VIEW
SCALE: 1:1



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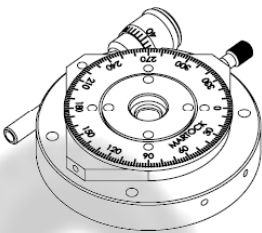
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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 AND CORNERS TO BE
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AUTHOR	NAME	DATE
CHECKED	GW	25/05/2010

MATERIAL STAINLESS STEEL		TITLE Eliot Scientific
FINISH AL. ALLOY/AL. BRONZE		
SIZE A4	DWG. NO. MDE251M-15	PRECISION XY MICROPOSITIONER
DO NOT SCALE DRAWING	SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1		

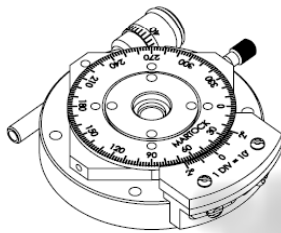
Rotation Stages

M6 CENTRAL BORE



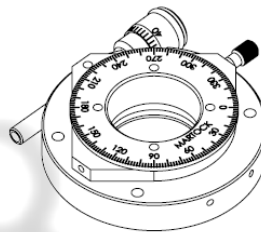
MDE282

M6 CENTRAL BORE
& 10 arcmin VERNIER



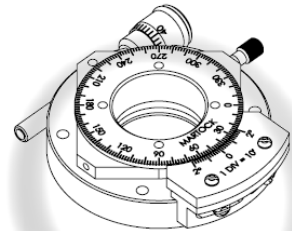
MDE282G

20mm CLEAR CENTRAL BORE



MDE282-20

20mm CLEAR CENTRAL BORE
& 10 arcmin VERNIER



MDE282-20G



Manual Positioners: Rotation Stages

MDE282 Compact Precision Rotation Stage



- Compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

ELLIOT MARTOCK

The model MDE282 rotation stage offers superb resolution (5 arc seconds) in a compact, low profile package. The calibrated fine adjustment control reads 2 arc minutes per division.

Specifications

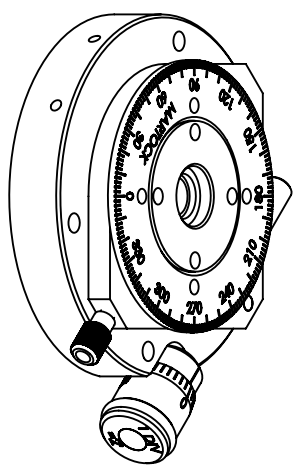
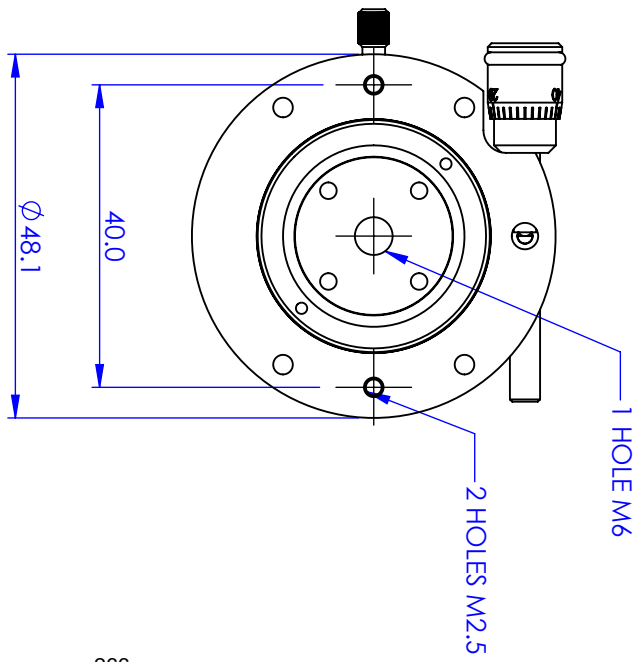
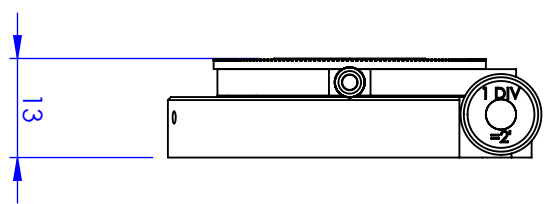
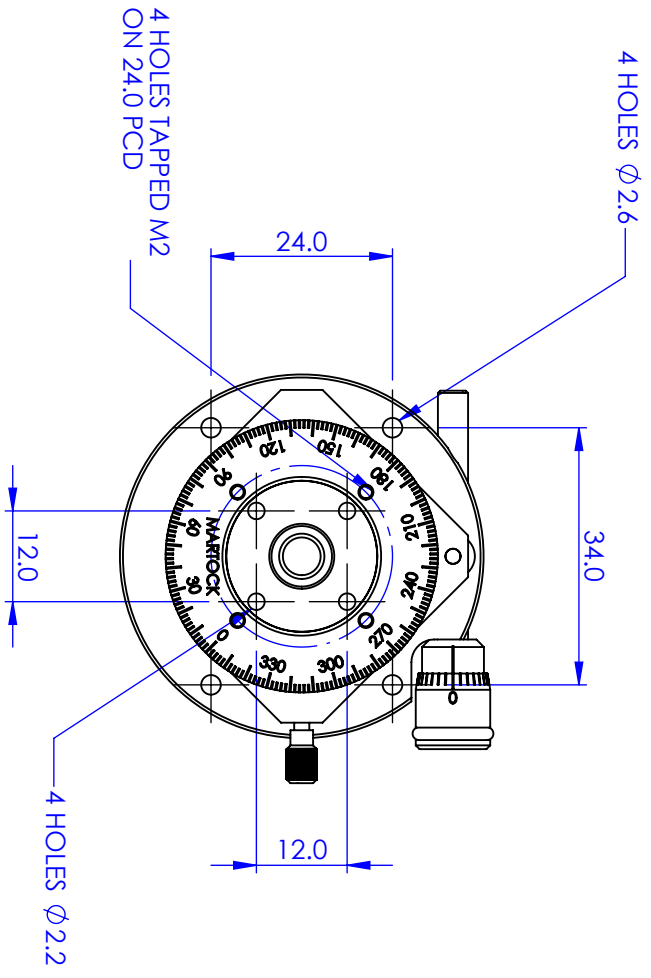
Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Fine adjustment	Tangent screw providing 10° range
Resolution	5 arc seconds
Calibration	1 division fine adjustment = 2 arc minutes
Thickness	13 mm
Standard bore tapped M6 with 8 mm counterbore	
Hole array for mounting MDE255, MDE257, MDE258 or MDE259 micropositioners	

Variants

- MDE282-20: Stage with 20 mm Clear Bore
- MDE282G: Stage with M6 Tapped Bore & Vernier Scale
- MDE282-20G: Stage with 20 mm Clear Bore & Vernier Scale

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GENERAL VIEW
SCALE: 1:1

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MATERIAL		
FINISH		

TITLE	
ROTATION STAGE	
SIZE	DWG. NO.
A4	MDF282
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Rotation Stages

MDE282G Compact Precision Rotation Stage with Vernier



- Compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range
- 360° scale with 2° divisions and 10 arc minute vernier

ELLIOT MARTOCK

The model MDE282G rotation stage offers superb resolution (5 arc seconds) in a compact, low profile package. The calibrated fine adjustment control reads 2 arc minutes per division and there is a 360° scale of 2° divisions plus a 10 arc minute vernier which itself can be adjusted and clamped over a 16° range.

Specifications

Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Gauge	360° scale with 2° divisions and 10 arc minute vernier
Fine adjustment	Tangent screw providing 10° range
Resolution	5 arc seconds
Calibration	
1 division fine adjustment = 2 arc minutes	Thickness
13 mm	Standard bore tapped M6 with 8 mm counterbore
	Hole array for mounting MDE255, MDE257, MDE258 or MDE259 micropositioners

Variants

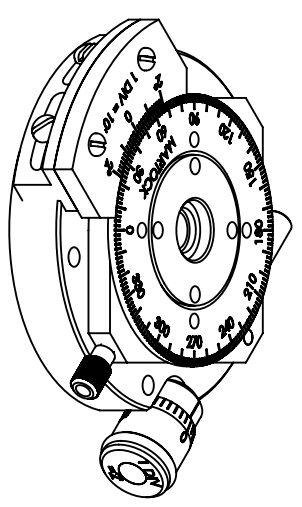
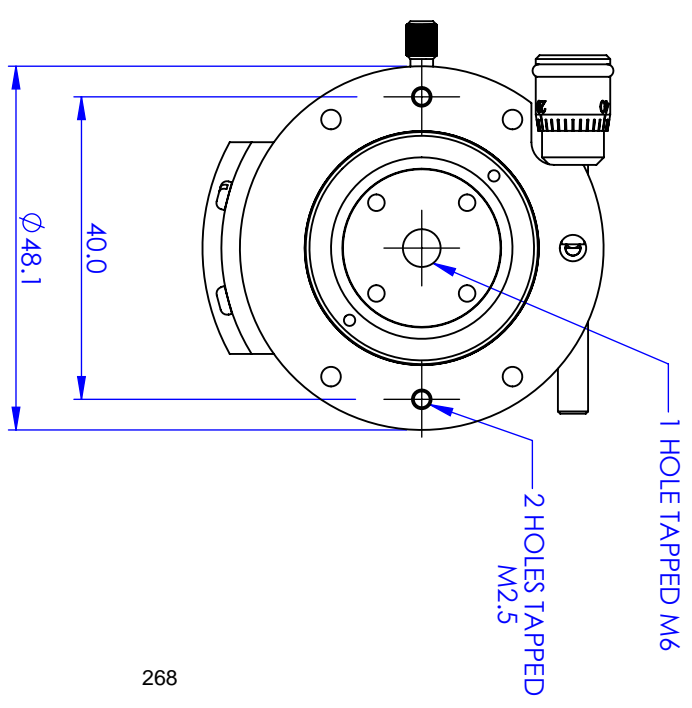
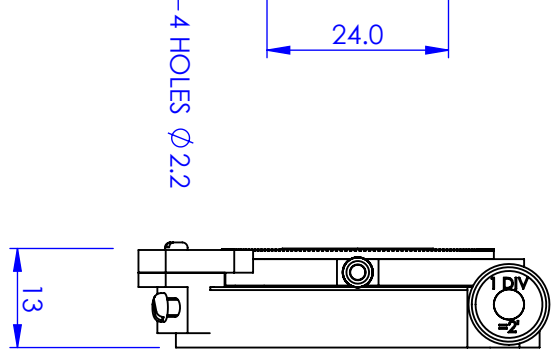
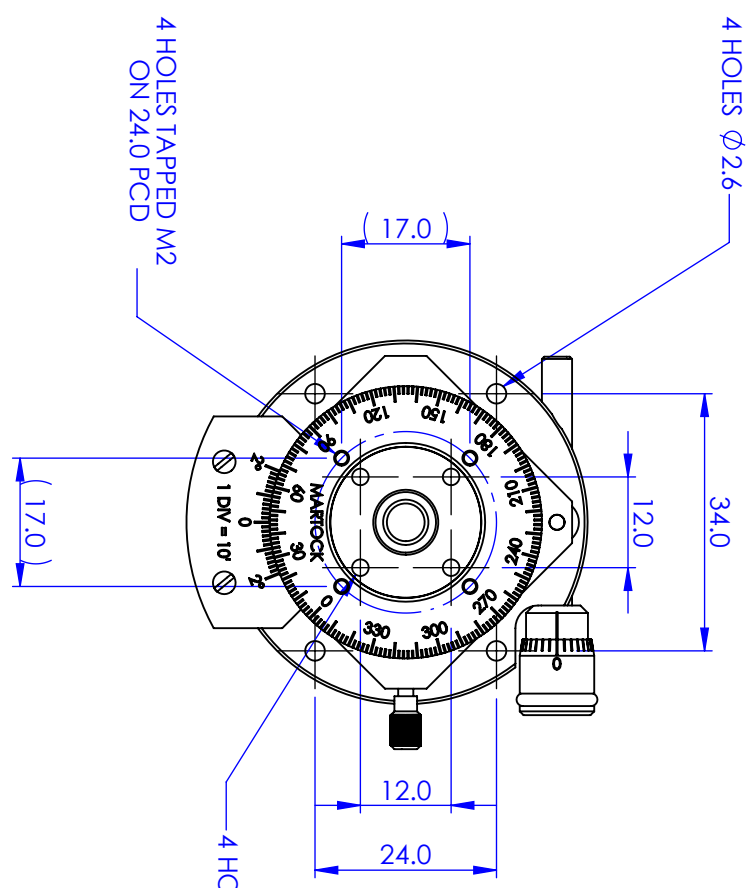
MDE282: Stage with M6 Tapped Bore

MDE282G: Stage with M6 Tapped Bore & Vernier Scale

MDE282-20G: Stage with 20 mm Clear Bore & Vernier Scale

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TITLE
ROTATION STAGE

SIZE **A4** DWG. NO. **MDF282G**

SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

Manual Positioners: Rotation Stages

MDE282-20 Compact Precision Rotation Stage, Large Bore



- Compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

ELLIOT MARTOCK

The model MDE282-20 rotation stage offers superb resolution (5 arc seconds) in a compact, low profile package with a 20 mm centre bore. The calibrated fine adjustment control reads 2 arc minutes per division.

Specifications

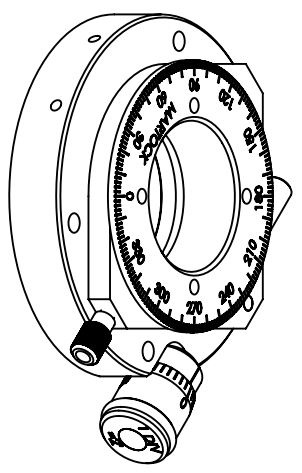
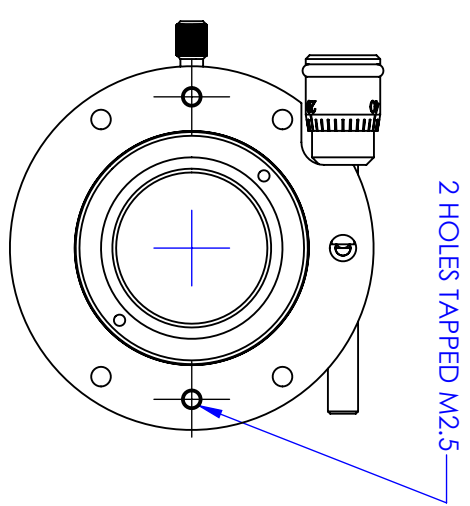
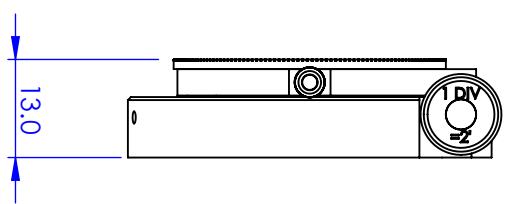
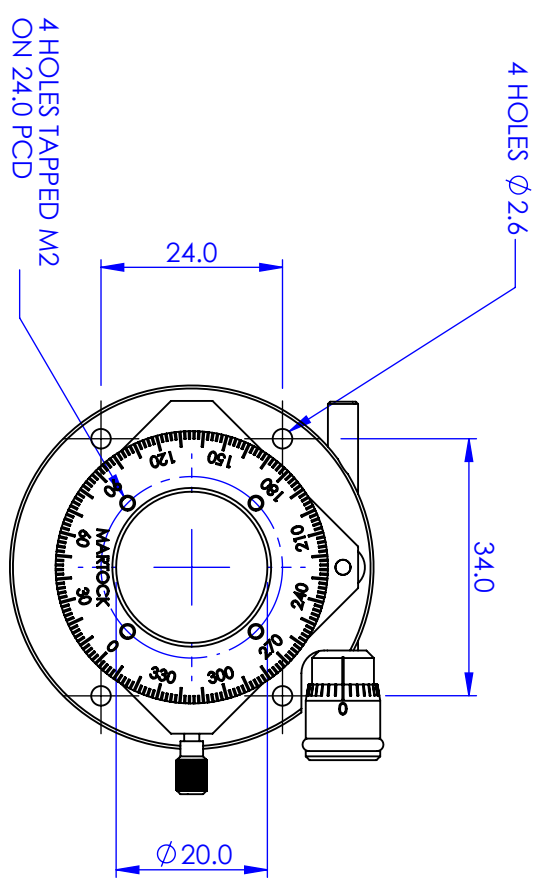
Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Fine adjustment	Tangent screw providing 10° range
Resolution	5 arc seconds
Calibration	1 division fine adjustment = 2 arc minutes
Thickness	13 mm
Bore	20 mm
Hole array for mounting MDE255, MDE257, MDE258 or MDE259 micropositioners	

Variants

- MDE282: Stage with M6 Tapped Bore
- MDE282-20: Stage with 20 mm Clear Bore
- MDE282-20G: Stage with 20 mm Clear Bore & Vernier Scale

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SCALE: 1:1

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NAME	DATE
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FINISH	

		TITLE
		ROTATION STAGE
SIZE	DWG. NO.	
A4	MDEF282-20	
SCALE: 1:1	THIRD ANGLE PROJECTION	SHEET 1 OF 1

Manual Positioners: Rotation Stages

MDE282-20G Compact Precision Rotation Stage, Large Bore with Vernier



- Compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range
- 360° scale with 2° divisions and 10 arc minute vernier

ELLIOT MARTOCK

The model MDE282-20G rotation stage offers superb resolution (5 arc seconds) in a compact, low profile package with a 20 mm centre bore. The calibrated fine adjustment control reads 2 arc minutes per division and there is a 360° scale of 2° divisions plus a 10 arc minute vernier which itself can be adjusted and clamped over a 16° range.

Specifications

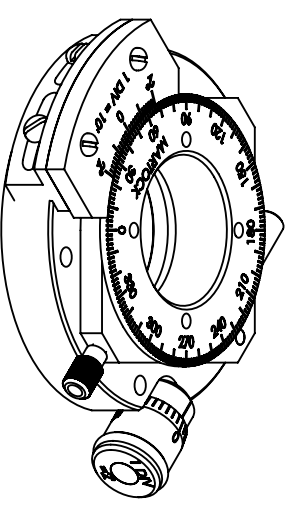
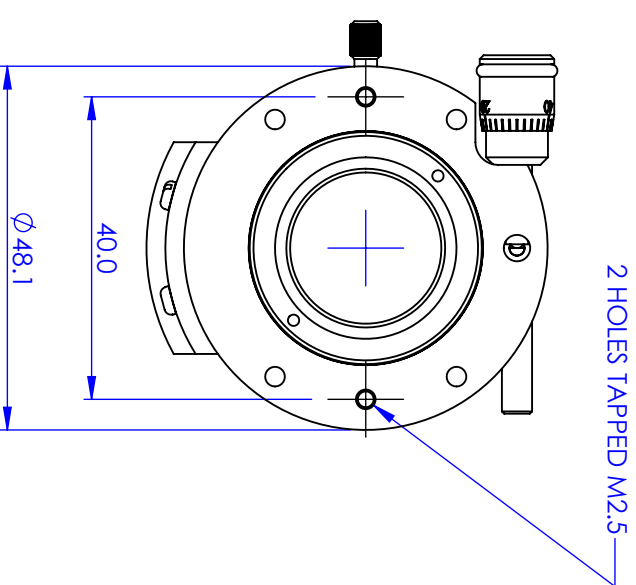
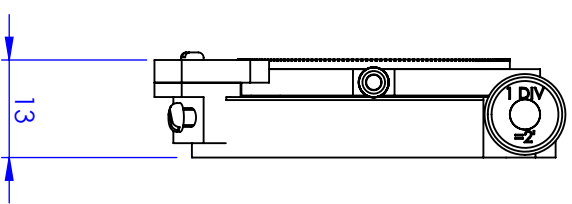
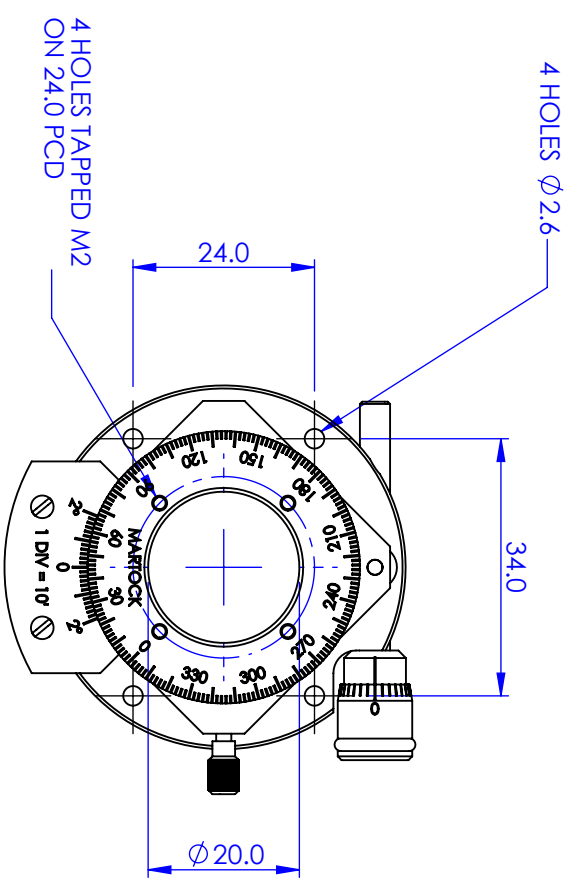
Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Gauge	360° scale with 2° divisions and 10 arc minute vernier
Fine adjustment	Tangent screw providing 10° range
Resolution	5 arc seconds
Calibration	1 division fine adjustment = 2 arc minutes
Thickness	13 mm
Bore	20 mm
Hole array for mounting MDE255, MDE257, MDE258 or MDE259 micropositioners	

Variants

- MDE282: Stage with M6 Tapped Bore
- MDE282G: Stage with M6 Tapped Bore & Vernier Scale
- MDE282-20: Stage with 20 mm Clear Bore

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GENERAL VIEW
SCALE: 1:1

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ROTATION STAGE	
SIZE	DWG. NO.
A4	MDF282-20G
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Rotation Stages

MDE283 Very Compact Precision Rotation Stage



- Very compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

ELLIOT MARTOCK

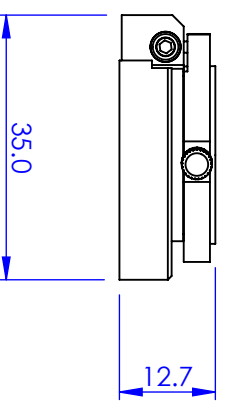
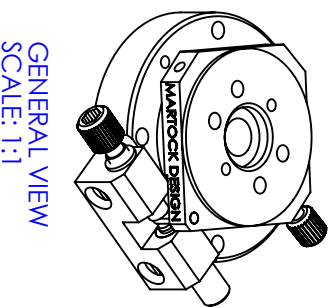
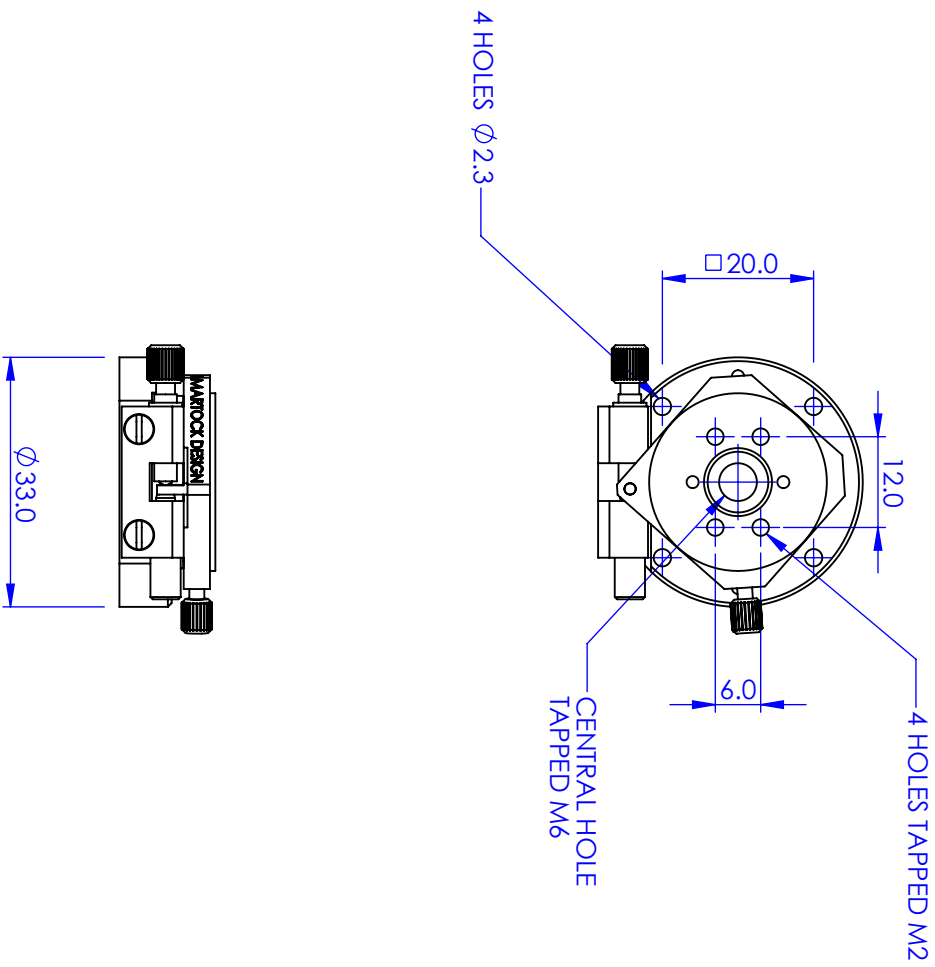
The model MDE283 rotation stage offers superb resolution (5 arc seconds) in a very compact, low profile package.

Specifications

Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Fine adjustment	Tangent screw providing 10° range: 1 turn = 1° rotation of stage
Resolution	5 arc seconds
Thickness	13 mm
Standard bore	tapped M6 with 8 mm Ø x 2 mm counterbore

For the latest price, contact us today.

MDE283
 COARSE ADJUST: FULL 360°
 FINE ADJUST: ±5°
 RESOLUTION: 5 ARC.SEC



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TITLE: ROTATION STAGE
 SIZE: A4
 DWG. NO.: MDE283
 SCALE: 1:1
 THIRD ANGLE PROJECTION
 SHEET 1 OF 1

Manual Positioners: Rotation Stages

MDE283-8 Very Compact Precision Rotation Stage, 8 mm Bore



- Very compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Very smooth backlash-free motion
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range



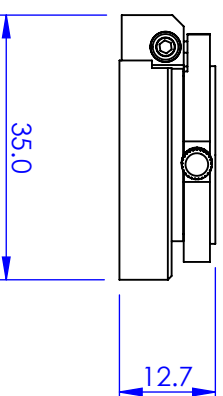
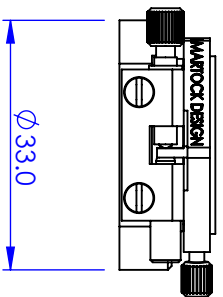
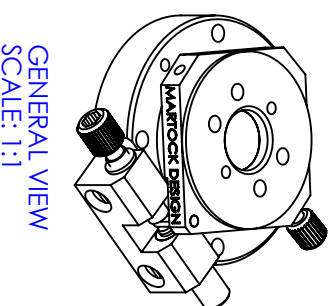
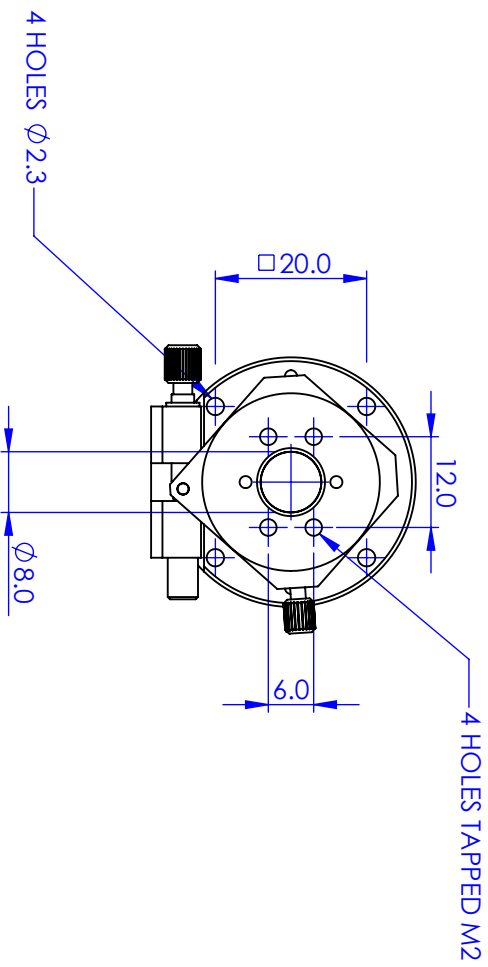
The model MDE283-8 rotation stage offers superb resolution (5 arc seconds) in a very compact, low profile package with an 8 mm bore.

Specifications

Construction	High precision lapped bearing
Rotation	360° free rotation with clamp screw
Fine adjustment	Tangent screw providing 10° range: 1 turn = 1° rotation of stage
Resolution	5 arc seconds
Thickness	13 mm
Bore	8 mm

For the latest price, contact us today.

MDE283-8
 COARSE ADJUST: FULL 360°
 FINE ADJUST: ±5°
 RESOLUTION: 5 ARC.SEC



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TITLE	
ROTATION STAGE	
SIZE	DWG. NO.
A4	MDE283-8
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Rotation Stages: Adaptors

MDE292 Compact Rotation Stage to Optical Table Adaptor



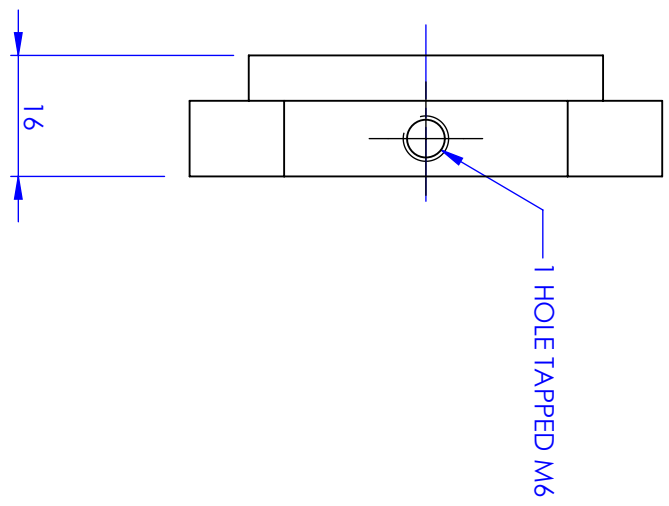
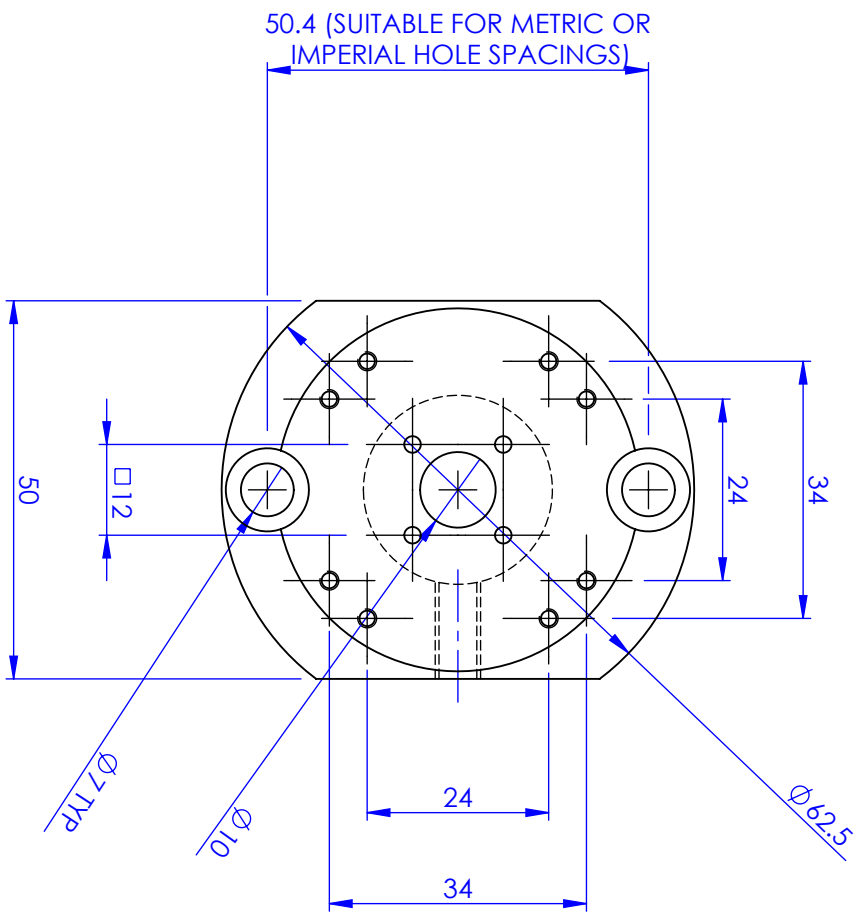
- Mounts stage onto optical table
- Alternative M6 hole for post mounting
- Adapts MDE255 and MDE282 series micropositioners to
- optical tables

ELLIOT MARTOCK

The MDE292 Adaptor Plate allows the mounting of MDE282 compact rotation stages and the MDE255 series linear stages onto optical tables or M6 studded posts.

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Eliot Scientific

TITLE
ADAPTOR PLATE

SIZE
A4

DWG. NO.
MDE292

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SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Rotation Stages: Adaptors

MDE293 Very Compact Rotation Stage to Optical Table Adaptor



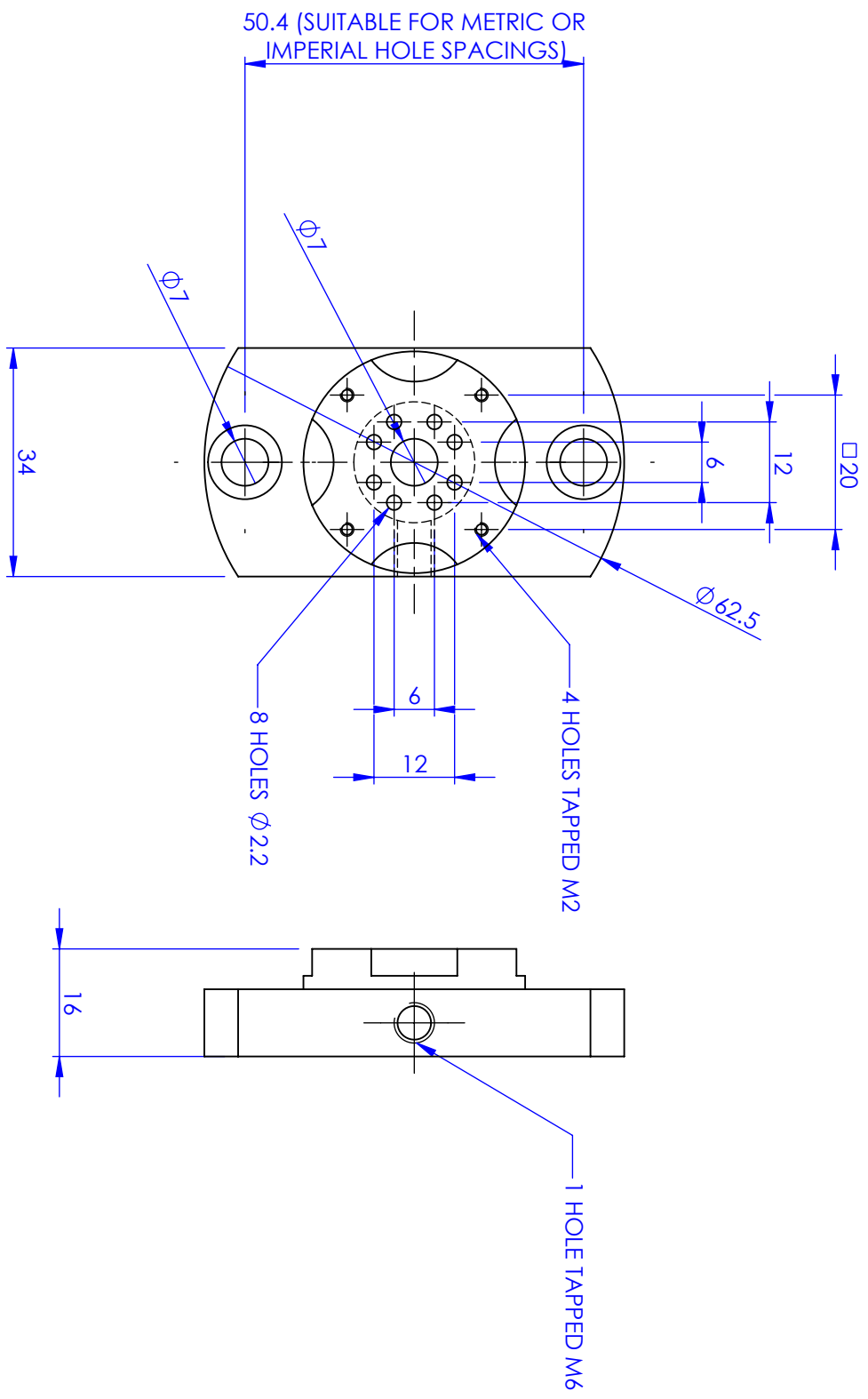
- Mounts stage onto optical table
- Alternative M6 hole for post mounting
- Adapts MDE260 series micropositioners to optical tables

ELLIOT MARTOCK

The MDE293 Adaptor Plate allows the mounting of the MDE283 very compact rotation stage and the MDE26x Series linear stages onto optical tables or M6 studded posts.

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Elliott Scientific

TITLE
ADAPTOR PLATE

SIZE
A4

DWG. NO.
MDE293

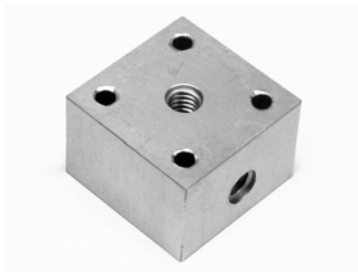
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THIRD ANGLE PROJECTION

SHEET 1 OF 1

Manual Positioners: Rotation Stages: Adaptors

MDE856 Very Small Micropositioner Adaptor

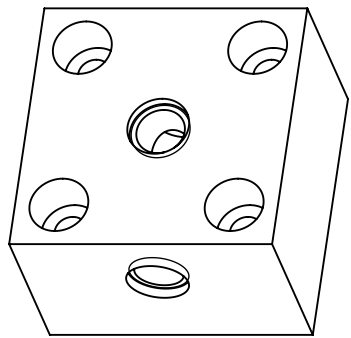


- Use with any MDE25x Series Micropositioner
- Allows mounting onto any post with M4 stud
- Facilitates vertical and horizontal mounting

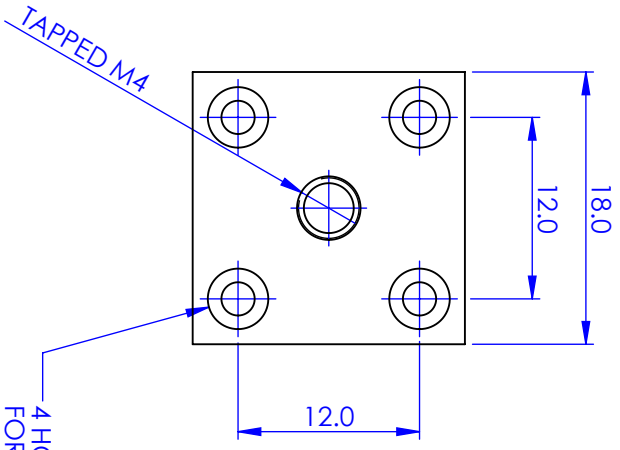
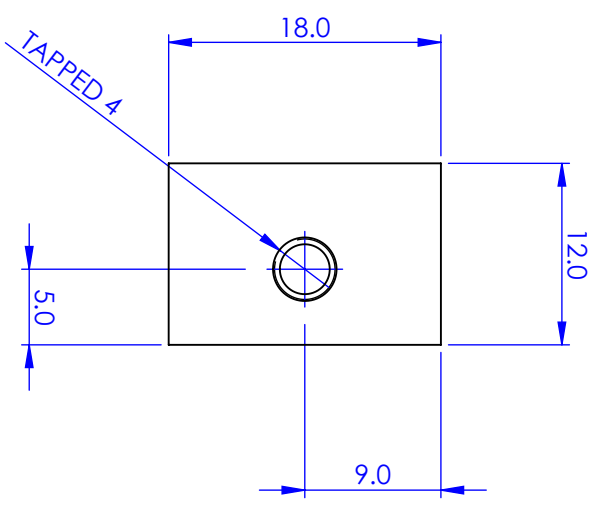
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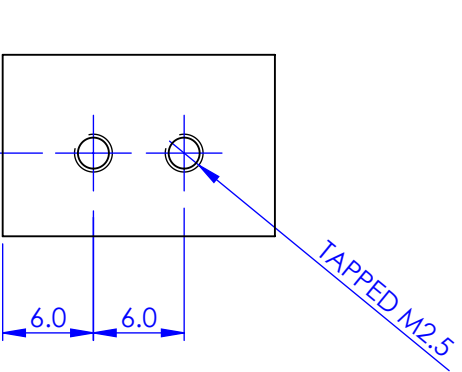
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GENERAL VIEW
SCALE 2:1



4 HOLES COUNTERBORED
FOR M2 CHEESE HEAD



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AUTHOR	NAME	DATE
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MATERIAL ALUMINIUM ALLOY		TITLE POST MOUNT ADAPTER	
FINISH ANODISED CLEAR		SIZE A4	DWG. NO. MDE856
DO NOT SCALE DRAWING		SCALE: 1	THIRD ANGLE PROJECTION



Manual Positioners: Rotation Stages: Adaptors

MDE857 MDE260 & MDE265 Adaptor



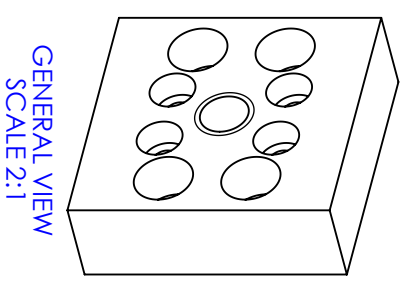
- Mount slide horizontal on post
- Mount MDE260 and MDE265 series to any M4 stud post
- Use with Elliot/Martock MDE260 and MDE265 series Ultra
- Small Micropositioners

ELLIOT MARTOCK

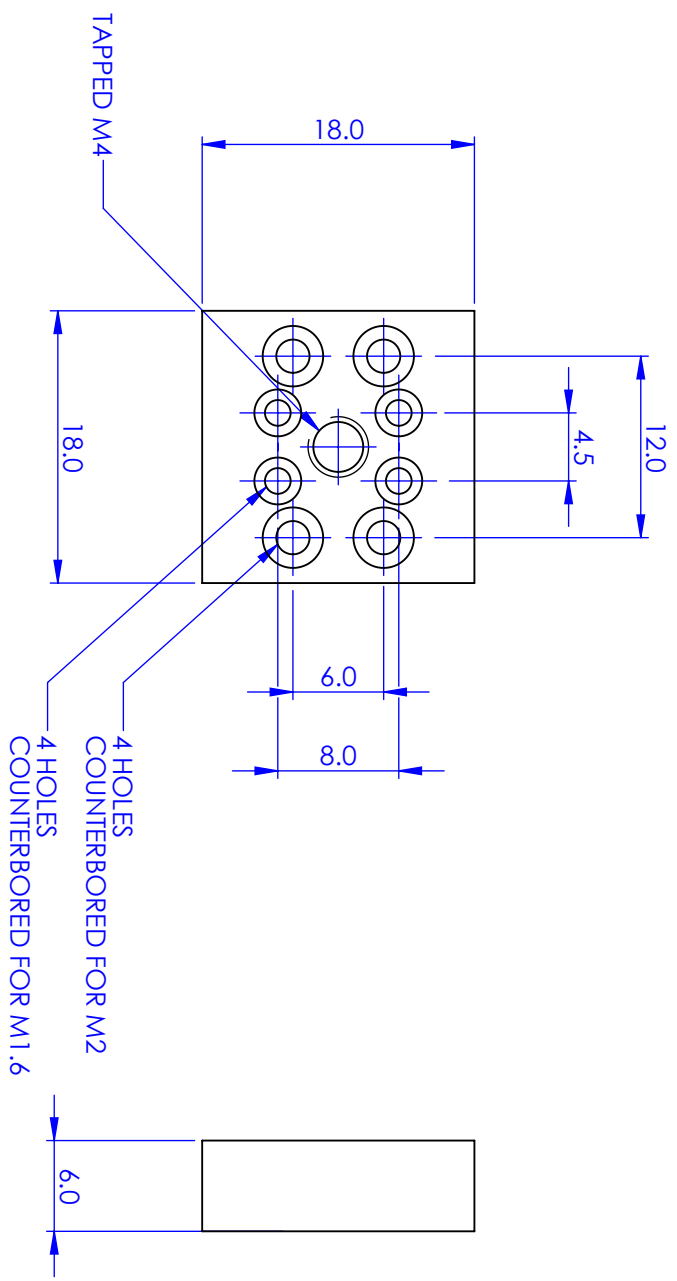
MDE857 adaptor fits MDE260 and MDE265 series slides.

For the latest price, contact us today.

REV.	DESCRIPTION	DATE	APPROVED



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SCALE 2:1



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AUTHOR	NAME	DATE
CHECKED	GW	23/03/2010

MATERIAL		TITLE	
ALUMINIUM ALLOY		HORIZONTAL POST MOUNT	
FINISH		SIZE	DWG. NO.
ANODISED CLEAR		A4	MDE857
DO NOT SCALE DRAWING		SCALE: 2:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1



Manual Positioners: Rotation Stages: Adaptors

MDE858 MDE260 & MDE265 Adaptor



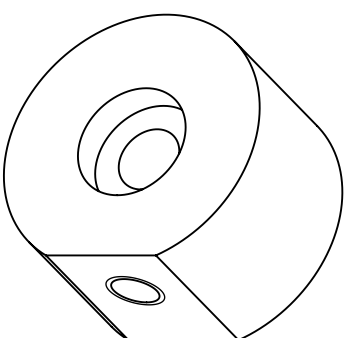
- Requires MDE857 adaptor
- Mount MDE260/MDE265 series micropositioners vertically
- or rotationally on an M4 stud

ELLIOT MARTOCK

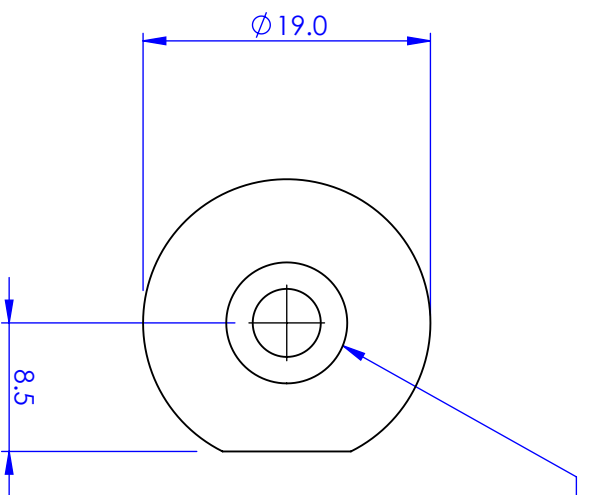
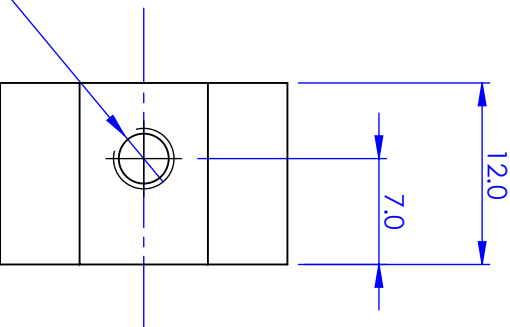
The MDE858 adaptor is used in conjunction with an MDE857 to allow vertical or rotational mounting of MDE260 and MDE265 series Ultra Small Micropositioners.

For the latest price, contact us today.

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GENERAL VIEW
SCALE 2:1



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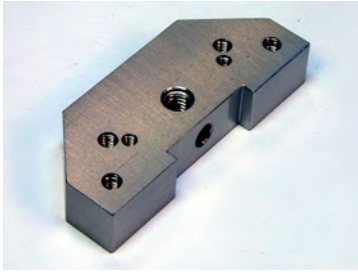
NAME	DATE
AUTHOR GW	23/03/2010
CHECKED -	-

MATERIAL ALUMINIUM ALLOY		TITLE ADAPTER MOUNT	
FINISH ANODISED CLEAR		SIZE A4	DWG. NO. MDES58
DO NOT SCALE DRAWING		SCALE: 1	THIRD ANGLE PROJECTION



Manual Positioners: Rotation Stages: Adaptors

MDE859 Rotation Stage to Post Mount Adaptor



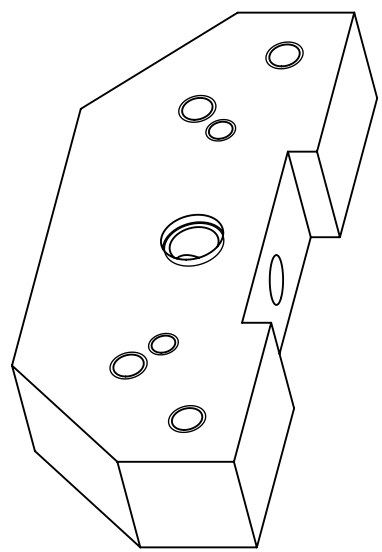
- Post mount stage onto any M4 stud post
- Designed for MDE282 & MDE283 rotation stages
- Allows mounting in vertical or horizontal plane

ELLIOT MARTOCK

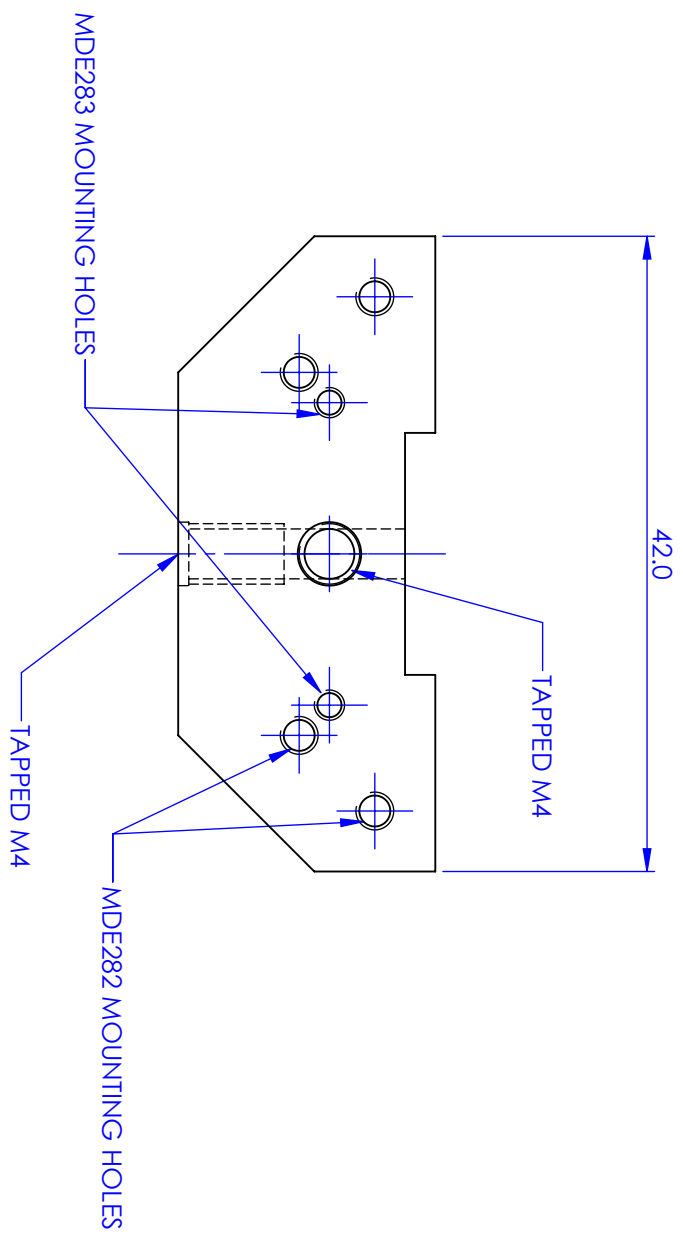
The MDE859 adaptor fits both MDE282 and MDE283 Rotation Stages allowing you to mount them onto a post via an M4 stud in the vertical or horizontal plane. The adaptor can also be used with FEMTO-BENCH™ accessories.

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE 2:1



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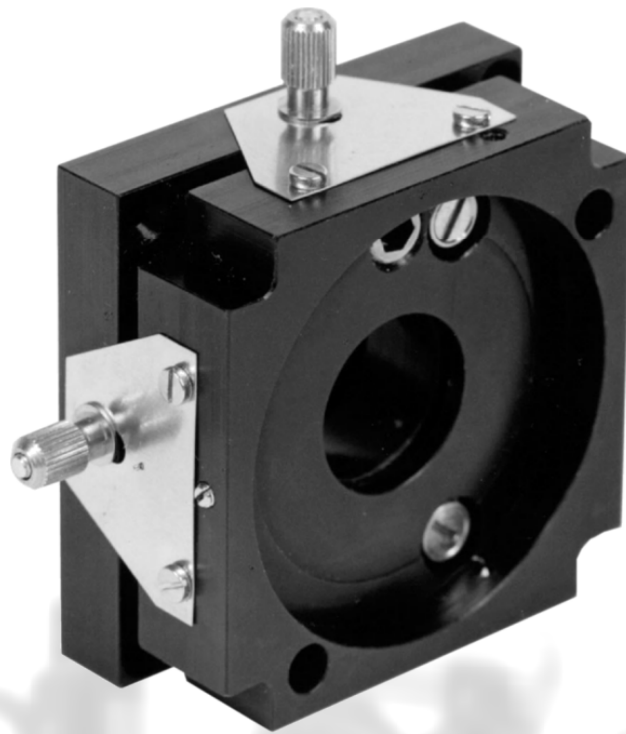
NAME	DATE
AUTHOR GW	23/03/2010
CHECKED	

MATERIAL ALUMINIUM ALLOY		TITLE ROTATION STAGE ADAPTER	
FINISH ANODISED CLEAR		SIZE A4	DWG. NO. MDE859
DO NOT SCALE DRAWING		SCALE2:1	THIRD ANGLE PROJECTION



Opto-Mechanics 2012

Tilt Stages





Manual Positioners: Tilt Stages

MDE270 High Precision Tilting Stage



- Clamps fitted to angular motions
- Range on each axis 3°
- Sensitivity 5 arc seconds
- Kinematic gimbal design gives independent adjustment on
- two axes

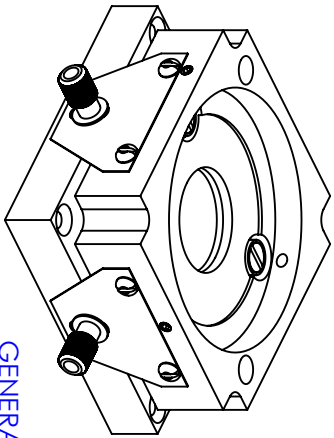


This high precision tilting stage provides angular adjustment to a range of Elliot Scientific linear micropositioners and rotation stages. Specifically for use with MDE251 or MDE251M micropositioners, it can also be used with the MDE283 rotation stage, and MDE255 or MDE260 series micropositioners using an appropriate adaptor plate.

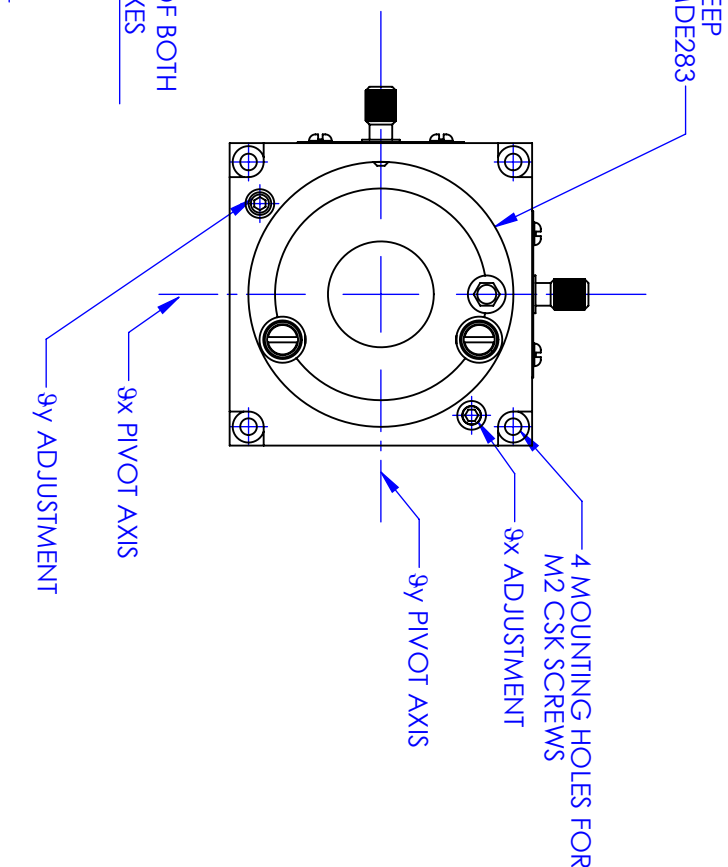
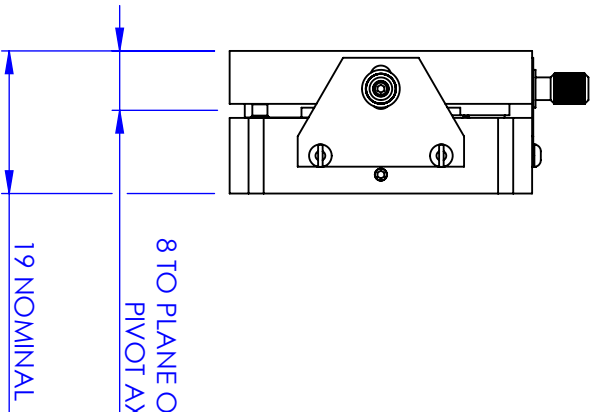
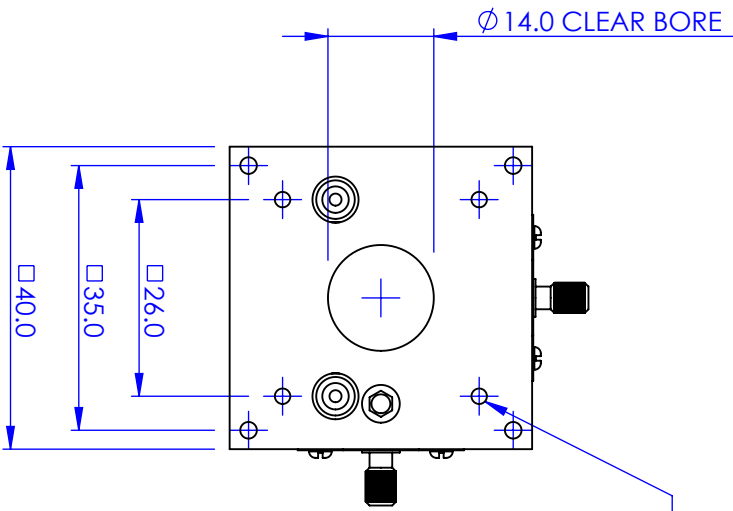
Specifications

Range on each axis	3°
Sensitivity	5 arc seconds
Adjustment	Hex key
Mounting options	M2 clearance holes, M2.5 tapped holes & M4 post-mounting using adaptor (MDE274)
Clamps fitted to angular motions	

For the latest price, contact us today.



GENERAL VIEW
SCALE: 1:1



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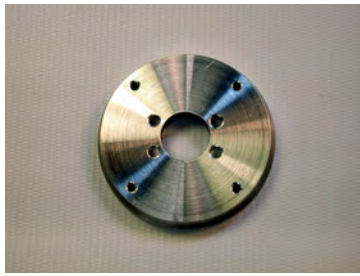
NAME	DATE
AUTHOR GW	26/05/2010
CHECKED --	--

		TITLE
		MDE270 PRECISION TILT STAGE
SIZE A4	DWG. NO. MDE270	THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

Manual Positioners: Tilt Stages: Adaptors

MDE273 MDE283/MDE26x to MDE270 Adaptor Plate

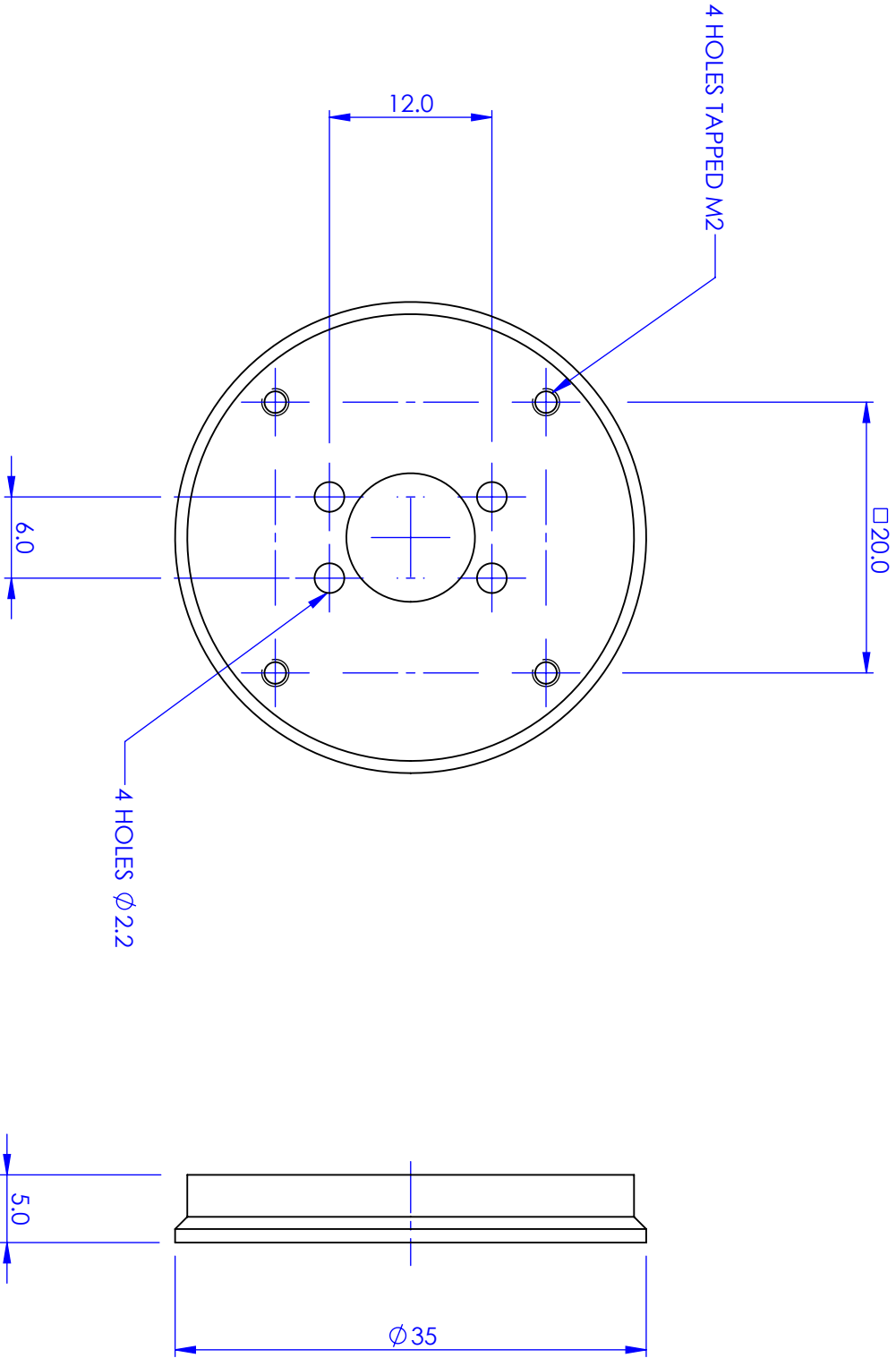


ELLIOT MARTOCK

Adaptor plate that facilitates mounting of rotation stage MDE283 or linear micropositioner MDE26x series stages to the MDE270 tilt stage.

For the latest price, contact us today.

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NAME	DATE
AUTHOR GW	27/05/2010
CHECKED	

Eliot Scientific

ADAPTER PLATE

MATERIAL: ALUMINIUM ALLOY

FINISH: --

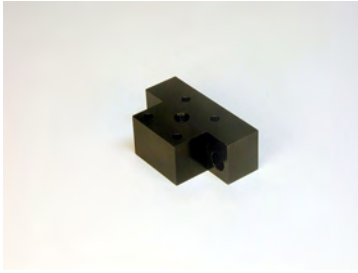
SIZE: **A4** DWG. NO. **MDE273**

SCALE: 1:1 THIRD ANGLE PROJECTION

DO NOT SCALE DRAWING

Manual Positioners: Tilt Stages: Adaptors

MDE274 MDE270 to MDE255 Adaptor

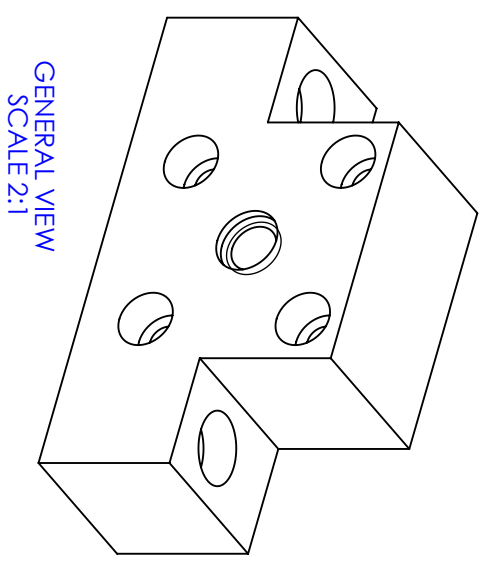
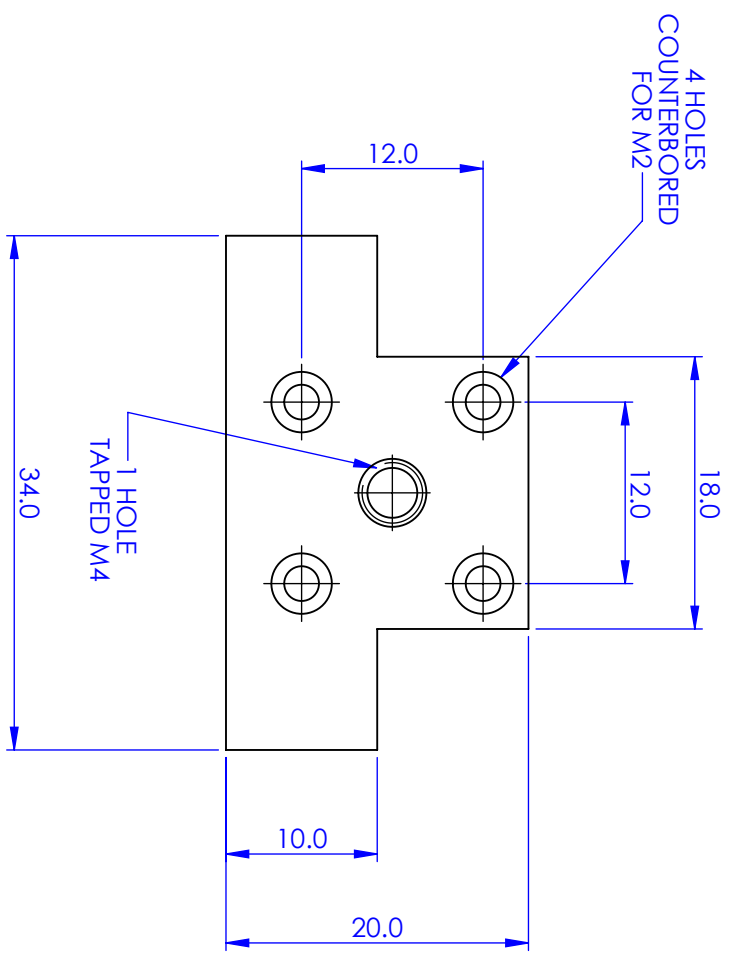
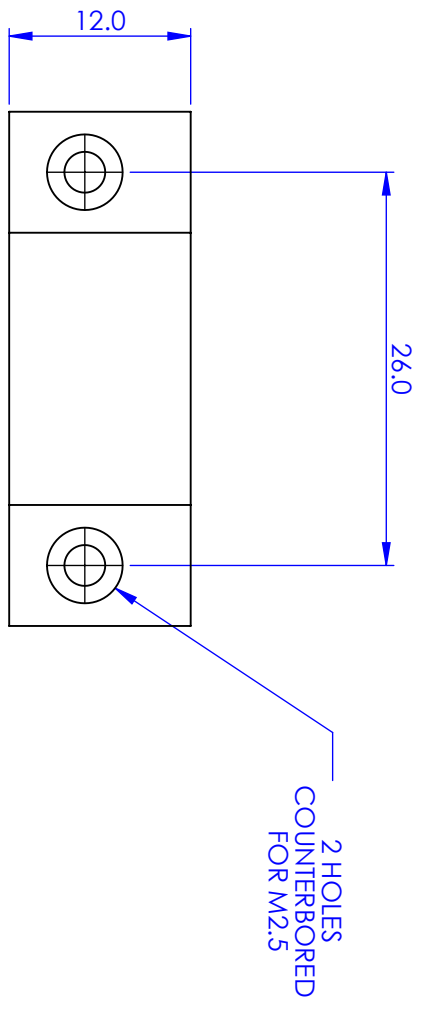


ELLIOT MARTOCK

Adaptor block to allow tilt stage MDE270 to be mounted to single axis micropositioner MDE255. Also includes M4 tapped hole to accept mounting post.

For the latest price, contact us today.

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AUTHOR GW	27/05/2010
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MATERIAL ALUM ALLOY		TITLE ADAPTER BLOCK	
FINISH BLACK ANODISE		SIZE A4	DWG. NO. MDE274
DO NOT SCALE DRAWING		SCALE:2:1	THIRD ANGLE PROJECTION
			SHEET 1 OF 1



Manual Positioners: Tilt Stages

MDE276 Four-Axis Micropositioner



ELLIOT MARTOCK

- Clamps fitted to angular motions
- Tilt range on each axis 3° - sensitivity 5 arc seconds
- Kinematic gimbal design gives independent adjustment on two tilt axes
- X & Y Travel ± 1 mm
- Two independent dovetail slides
- Very smooth backlash-free motion
- No interaction between X and Y axes
- Fine thread 0.25 pitch adjusters
- Standard 11 mm \varnothing bore suits small laser diodes

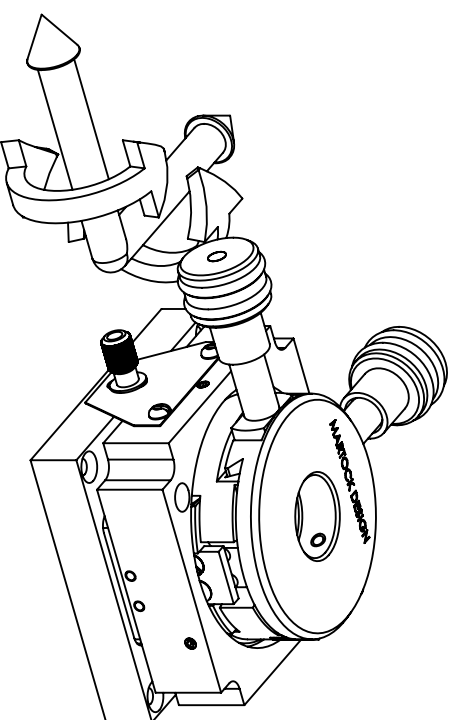
A four-axis micropositioner comprising an MDE270 Precision Tilt Stage and MDE251 Precision XY Centring Micropositioner

Specifications

Tilt range on each axis	3°
Sensitivity	5 arc seconds
Adjustment	Hex key
Mounting options	M2 clearance holes, M2.5 tapped holes & M4 post-mounting (use adaptor MDE274)
Clamps fitted to angular motions	
Two independent dovetail slides combined	
Travel in X & Y	± 1 mm
Sensitivity	$< 0.5 \mu\text{m}$
Bore diameter	11 mm
Adjusters	0.25 pitch (x2)

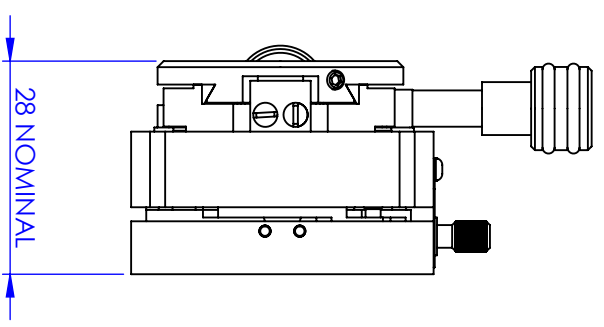
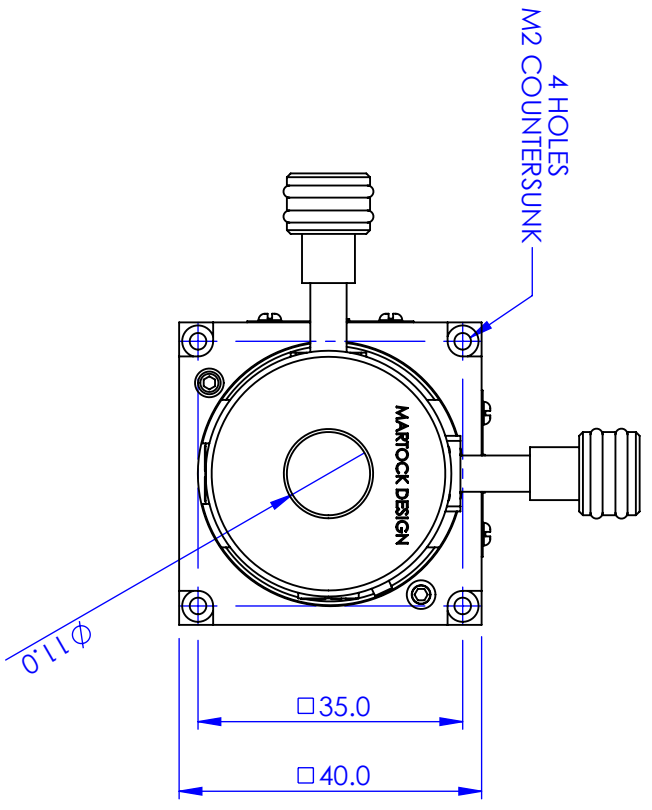
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GENERAL VIEW SHOWING ROTATION AND TRANSLATION AXES

3° ROTATION AXES
±1mm TRANSLATION AXES



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AUTHOR	NAME	DATE
CHECKED	GW	01/06/2010
MATERIAL		

Eliot Scientific	
4 AXIS MICROPOSITIONER	
SIZE A4	DWG. NO. MDE276
DO NOT SCALE DRAWING	THIRD ANGLE PROJECTION
SCALE: 1:1	SHEET 1 OF 1

Manual Positioners: Tilt Stages

MDE276M Four-Axis Micropositioner with Micrometers



ELLIOT MARTOCK

- Clamps fitted to angular motions
- Tilt range on each axis 3° - sensitivity 5 arc seconds
- Kinematic gimbal design gives independent adjustment on two tilt axes
- X & Y Travel ± 1 mm
- Two independent dovetail slides
- Very smooth backlash-free motion
- No interaction between X and Y axes
- Micrometer scales read to 0.01 mm
- Standard 11 mm \varnothing bore suits small laser diodes

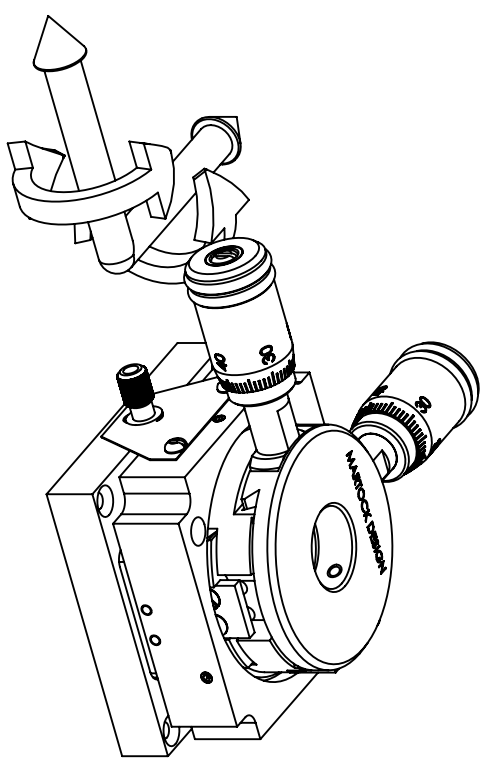
A four-axis micropositioner comprising an MDE270 Precision Tilt Stage and MDE251M Precision XY Centreing Micropositioner

Specifications

Tilt range on each axis	3°
Sensitivity	5 arc seconds
Adjustment	Hex key
Mounting options	M2 clearance holes, M2.5 tapped holes & M4 post-mounting (use adaptor MDE274)
Clamps fitted to angular motions	
Two independent dovetail slides combined	
Travel in X & Y	± 1 mm
Bore diameter	11 mm
Adjusters	Micrometer reading to 0.01 mm (x2)

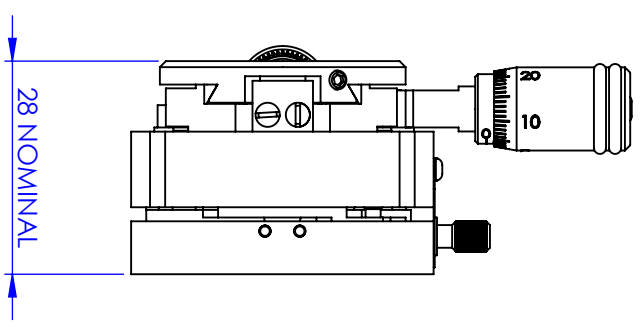
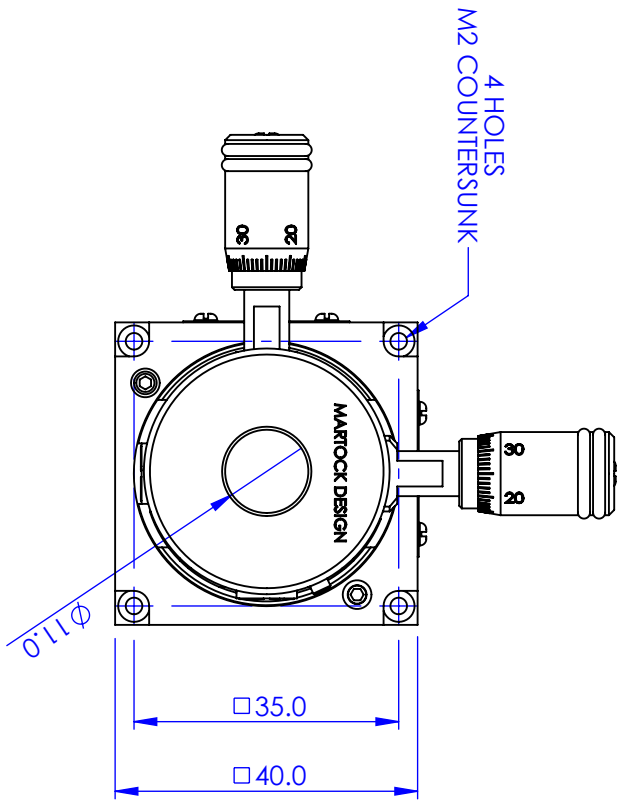
For the latest price, contact us today.

REVISIONS		DATE	APPROVED
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GENERAL VIEW SHOWING ROTATION AND TRANSLATION AXES

3° ROTATION AXES
±1mm TRANSLATION AXES



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MATERIAL	

Eliot Scientific	
TITLE 4 AXIS MICROPOSITIONER	
SIZE A4	DWG. NO. MDEZ76M
DO NOT SCALE DRAWING	SCALE: 1:1
	THIRD ANGLE PROJECTION
	SHEET 1 OF 1

Manual Positioners: Tilt Stages

MDE277 Five-Axis Micropositioner



ELLIOT MARTOCK

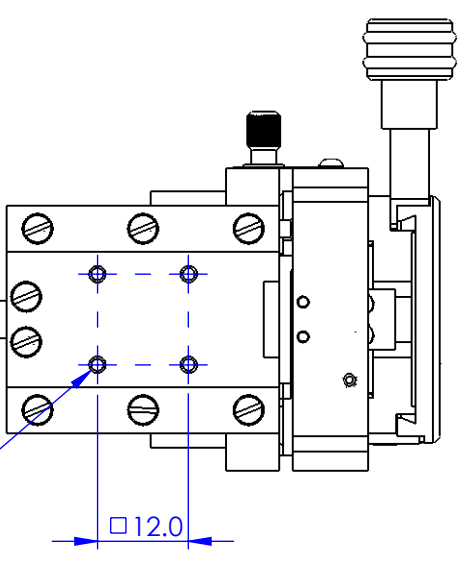
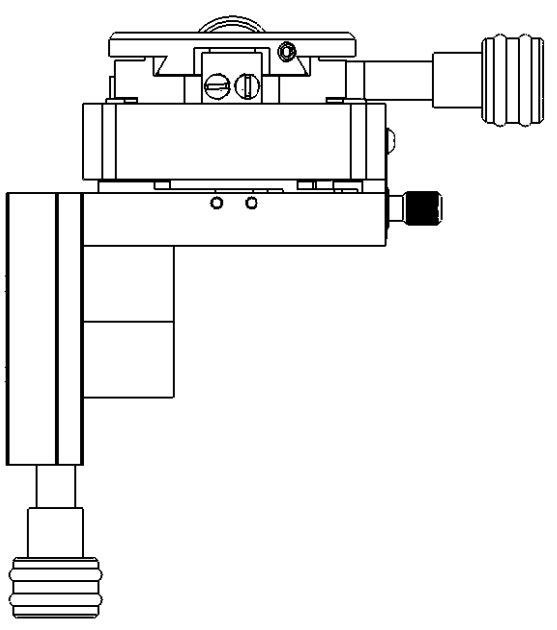
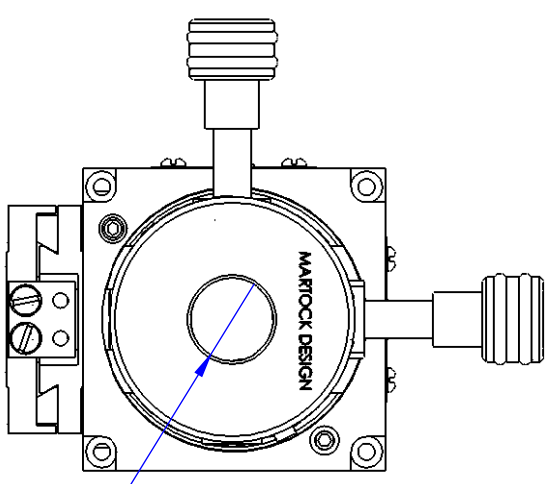
- Kinematic gimbal design gives independent adjustment on two tilt axes
- Tilt range on each axis 3° with sensitivity of 5 arc seconds
- Clamps fitted to angular motions
- Centring is by two independent dovetail slides (stainless steel body)
- Travel: ± 1 mm with very smooth backlash-free motion
- No interaction between X and Y axes
- Fine thread 0.25 pitch adjusters
- Standard 11 mm \varnothing bore suits small laser diodes
- Positioner is a small dovetail slide (stainless steel body)

Specifications

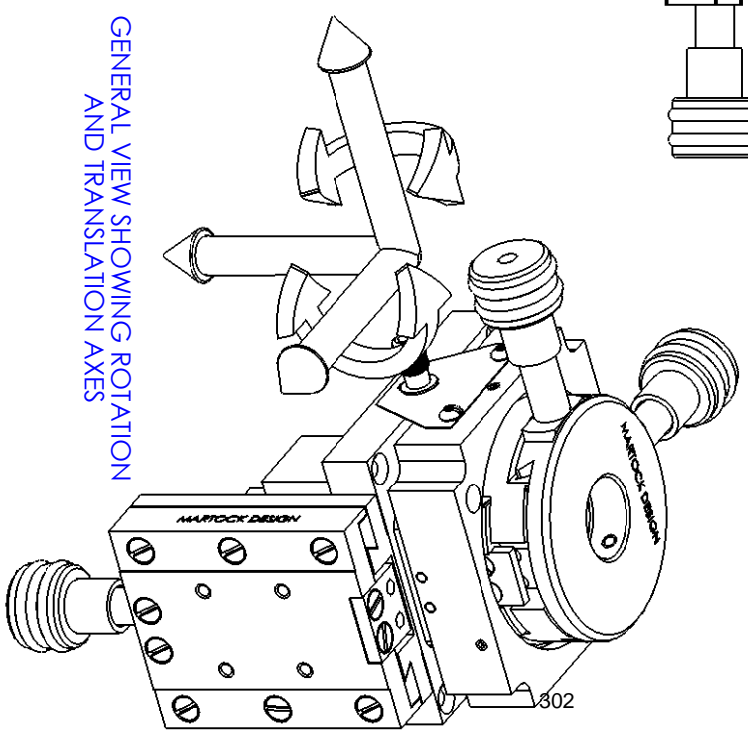
Tilt range on each axis	3°
Sensitivity	5 arc seconds
Adjustment	Hex key
Mounting options	M2 clearance holes, M2.5 tapped holes & M4 post-mounting (using adaptor MDE274)
MDE251 Specifications	Two independent dovetail slides combined
Travel in X & Y	± 1 mm
Bore diameter	11 mm
Adjusters	Fine thread 0.25 pitch adjusters
MDE255 Specifications	Dovetail slide with fine thread 0.25 pitch adjuster
Travel	10 mm

For the latest price, contact us today.

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3° ROTATION AXES
 $\pm 1\text{mm}$ X&Y TRANSLATION,
 $\pm 5\text{mm}$ Z TRANSLATION



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NAME	DATE
AUTHOR	01/06/2010
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Elliott Scientific	
TITLE	
5 AXIS MICROPOSITIONER	
SIZE	DWG. NO.
A4	MDE277
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

DO NOT SCALE DRAWING

Manual Positioners: Tilt Stages

MDE277M Five-Axis Micropositioner with Micrometers



ELLIOT MARTOCK

- Kinematic gimbal design gives independent adjustment on two tilt axes
- Tilt range on each axis 3° with sensitivity of 5 arc seconds
- Clamps fitted to angular motions
- Centring is by two independent dovetail slides (stainless steel body)
- Travel: ± 1 mm with very smooth backlash-free motion
- No interaction between X and Y axes
- Micrometer scales read to 0.01 mm
- Standard 11 mm \varnothing bore suits small laser diodes
- Positioner is a small dovetail slide (stainless steel body)

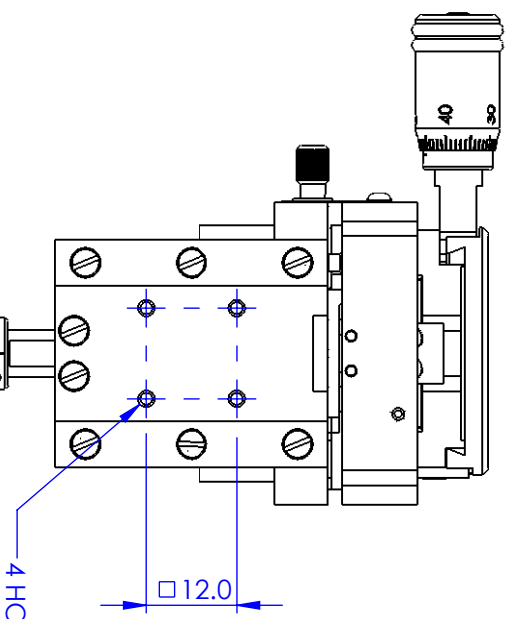
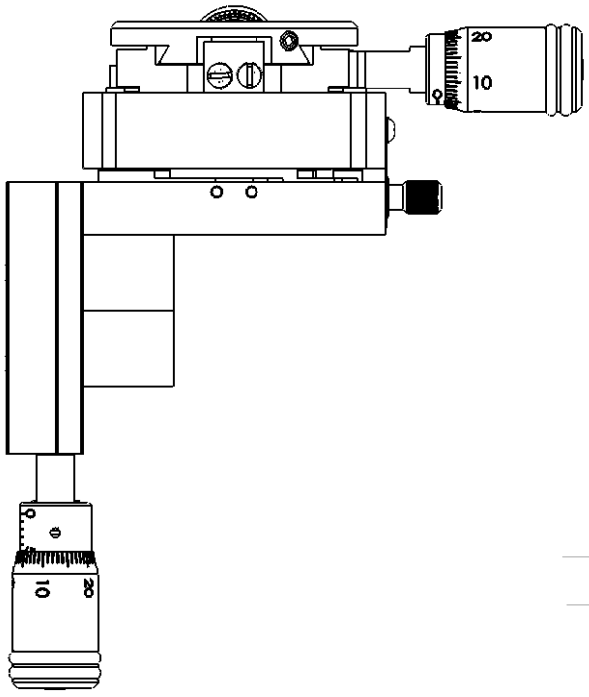
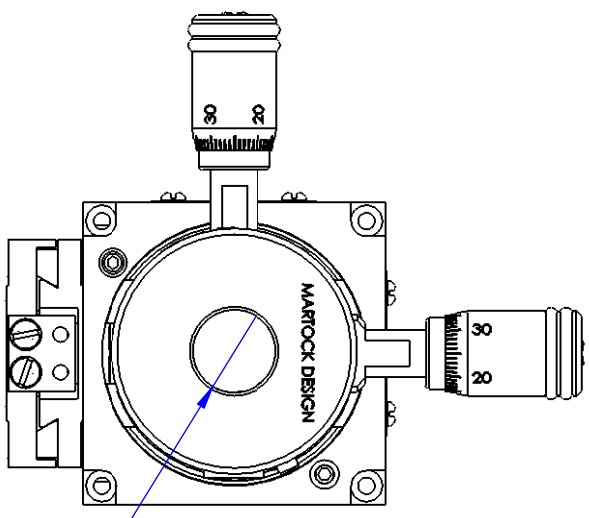
A five-axis micropositioner comprising an MDE270 Precision Tilt Stage, MDE251 Precision XY Centring Micropositioner, MDE274 Adaptor Block and MDE255M Single Axis Micropositioner.

Specifications

Tilt range on each axis	3°
Sensitivity	5 arc seconds
Adjustment	Hex key
Mounting options	M2 clearance holes, M2.5 tapped holes & M4 post-mounting (using adaptor MDE274)
MDE251M Specifications	Two independent dovetail slides combined
Travel in X & Y	± 1 mm
Bore diameter	11 mm
Adjusters	Micrometer reading to 0.01 mm x2
MDE255M Specifications	Dovetail slide with micrometer reading to 0.01 mm
Travel	10 mm

For the latest price, contact us today.

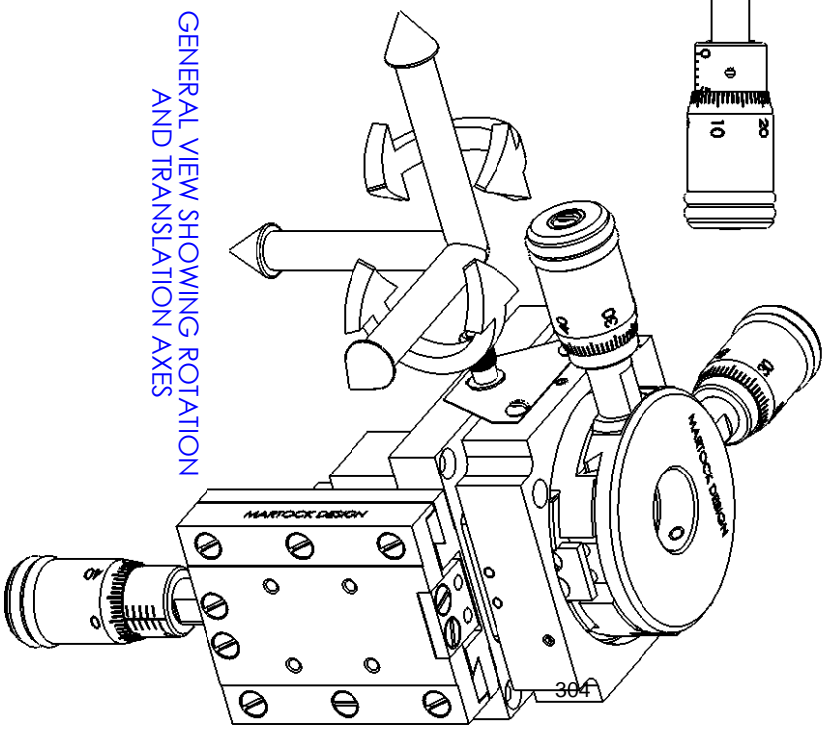
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4 HOLES TAPPED M2

3° ROTATION AXES
 $\pm 1\text{mm}$ X&Y TRANSLATION,
 $\pm 5\text{mm}$ Z TRANSLATION

GENERAL VIEW SHOWING ROTATION
AND TRANSLATION AXES



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NAME	DATE
AUTHOR GW	01/06/2010
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Eliot Scientific	
TITLE	
5 AXIS MICROPOSITIONER	
SIZE	DWG. NO.
A4	MDE277M
DO NOT SCALE DRAWING	
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Opto-Mechanics 2012

Centring Lens Mounts



Elliot Scientific

Manual Positioners: Centreing Lens Mounts

MDE870 1" (25 mm) Centreing Lens Mount



- Mounts 1" or 25 mm lens
- Travel in X & Y ± 2.5 mm
- Convenient sleeve clamping of optic
- Accepts a range of optic thicknesses

ELLIOT MARTOCK

Part of a range of economical, post mountable lens holders with X and Y adjustment for lens centreing applications and general laboratory use.

Specifications

Optic size	25 mm / 1.0 inch
Adjusters	Drive screws with knurled knob
Travel	± 2.5 mm in X & Y
Mounting hole	M4 threaded hole

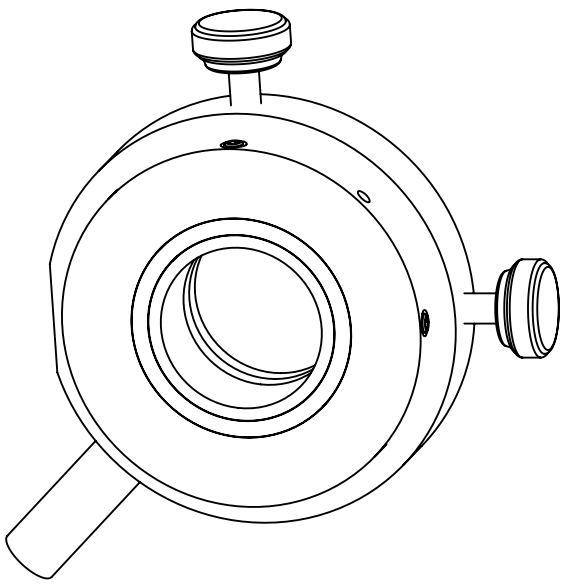
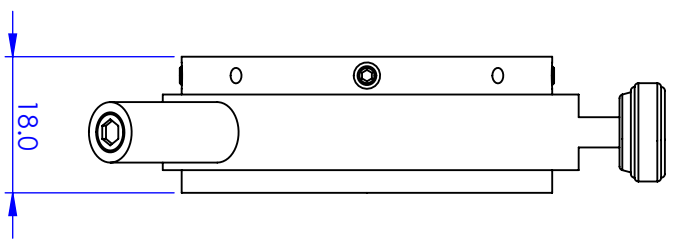
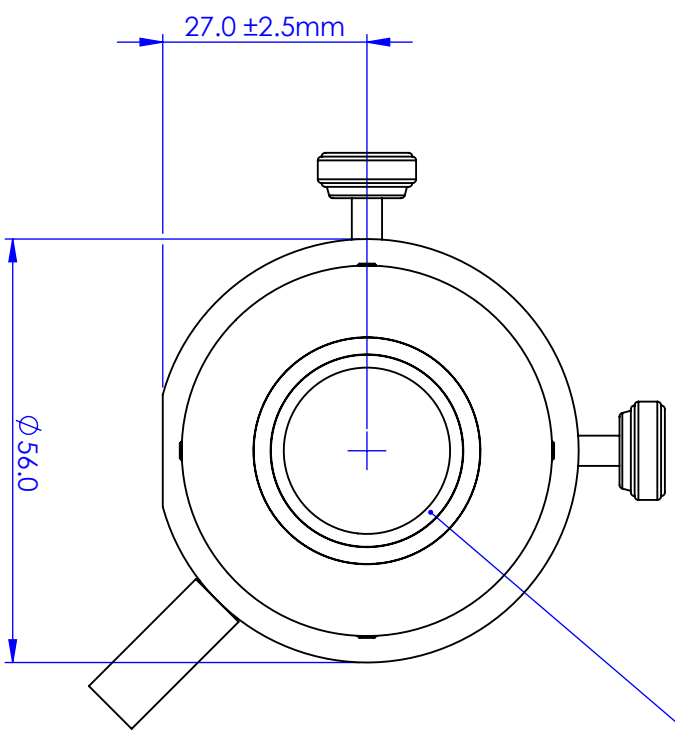
Options and Accessories

MDE874 RMS 0.800-36 threaded insert to accept microscope objectives
Posts
Post holders

For the latest price, contact us today.

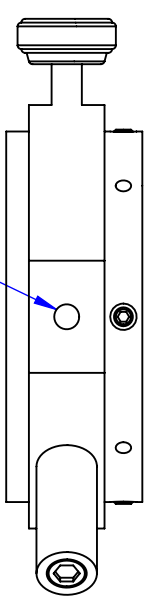
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REV.	DESCRIPTION		

OPTIC RETAINING SLEEVE.
HOLDS 1" OPTICS UP
TO 11mm THICK



GENERAL VIEW
SCALE 1:1

±2.5mm TRAVEL IN X AND Y



TAPPED M4 MOUNTING HOLE

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NAME	DATE
AUTHOR GW	10/07/2009
CHECKED	
MATERIAL	

Eliot Scientific	
TITLE LENS CENTRING MOUNT	
SIZE A4	DWG. NO. MDE870
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Centreing Lens Mounts

MDE871 1/2" (12.5 mm) Centreing Lens Mount



- Mounts 1/2" or 12.5 mm lens
- Travel in X & Y ± 2.5 mm
- Convenient sleeve clamping of optic
- Accepts a range of optic thicknesses

ELLIOT MARTOCK

Part of a range of economical, post mountable lens holders with X and Y adjustment for lens centreing applications and general laboratory use.

Specifications

Optic size	12.5 mm / 1/2 inch
Adjusters	Drive screws with knurled knob
Travel	± 2.5 mm in X & Y
Mounting hole	M4 threaded hole

Options and Accessories

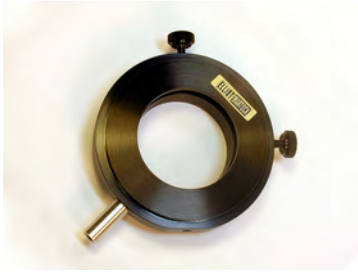
Posts
Post holders

For the latest price, contact us today.



Manual Positioners: Centreing Lens Mounts

MDE872 2" (50 mm) Centreing Lens Mount



- Mounts 2" or 50 mm lens
- Travel in X & Y ± 2.5 mm
- Convenient sleeve clamping of optic
- Accepts a range of optic thicknesses
- 2.035" - 40 thread on rear for mounting lens tubes

ELLIOT MARTOCK

Part of a range of economical, post mountable lens holders with X and Y adjustment for lens centreing applications and general laboratory use.

Specifications

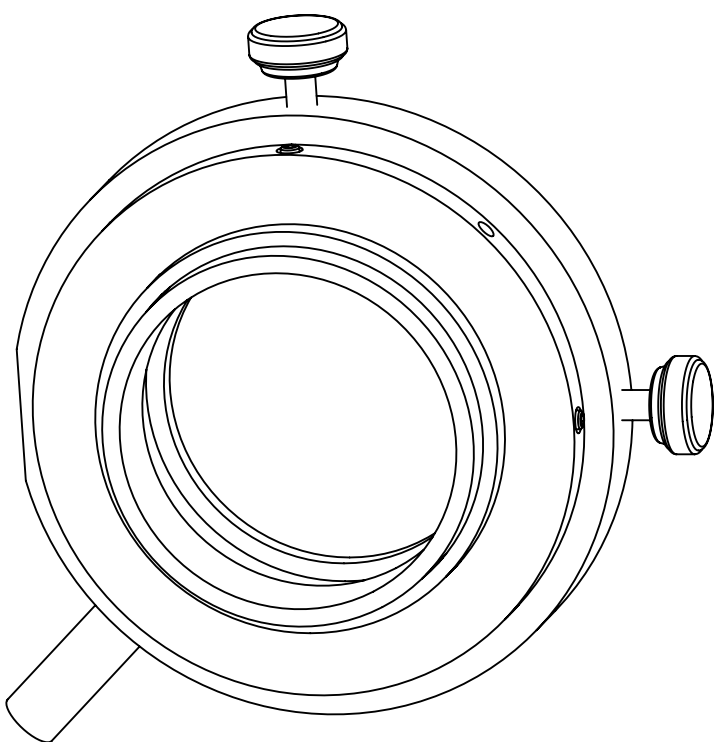
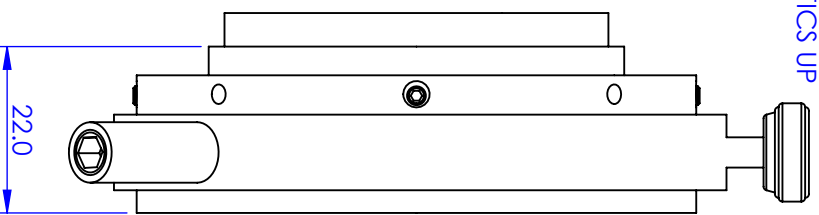
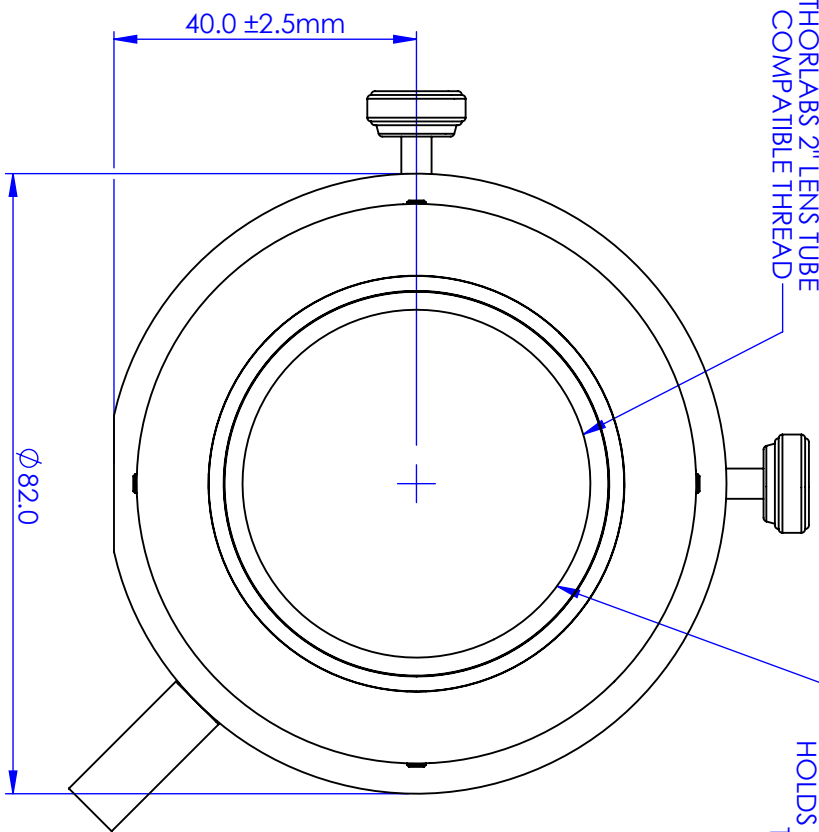
Optic size	50 mm / 2.0 inch
Adjusters	Drive screws with knurled knob
Travel	± 2.5 mm in X & Y
Mounting hole	M4 threaded hole

For the latest price, contact us today.

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REV.	DESCRIPTION		

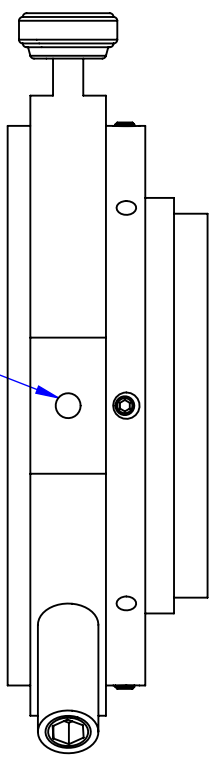
REMOVE SLEEVE TO REVEAL THORLABS 2" LENS TUBE COMPATIBLE THREAD

OPTIC RETAINING SLEEVE. HOLDS 2" or 50mm OPTICS UP TO 11mm THICK



GENERAL VIEW
SCALE 1:1

±2.5mm TRAVEL IN X AND Y



M4 TAPPED MOUNTING HOLE

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DIMENSIONS ARE IN mm
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 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
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NAME	DATE
AUTHOR	10/07/2009
CHECKED	
MATERIAL	

Eliot Scientific	
TITLE	
2" LENS CENTRING MOUNT	
SIZE	DWG. NO.
A4	MDE872
DO NOT SCALE DRAWING	SCALE: 1:1
	THIRD ANGLE PROJECTION
	SHEET 1 OF 1

Opto-Mechanics 2012

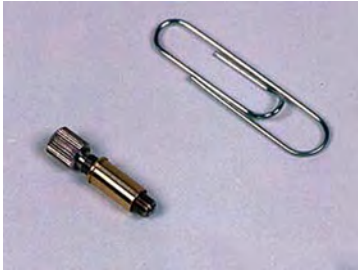
Micrometers & Adjusters



Elliot Scientific

Micrometers, Adjusters, Piezos & Inertial Drives: Miniature Adjusters

MDE208 Simple Adjuster with 5 mm travel



- 5 mm travel
- Extremely compact
- Very smooth operation
- Very fine thread - 0.25 mm pitch
- Designed specifically for micropositioning applications
- Positioning to 0.5 μm using a hex key/driver in the integral hex hole in knob
- Long life stainless steel spindle with hard steel ball tip & nickel silver nut

ELLIOT MARTOCK

This miniature adjuster is used in the MDE260 series micropositioners. It incorporates a 4 mm diameter mounting spigot. A knurled knob facilitates simple adjustment or an optional hex driver can be used when greater sensitivity is required.

Specifications

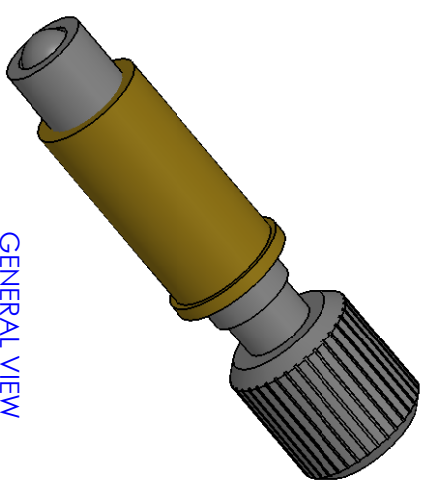
Travel	0 ~ 5 mm
Thread	0.25 mm pitch
Sensitivity	0.5 μm

Options

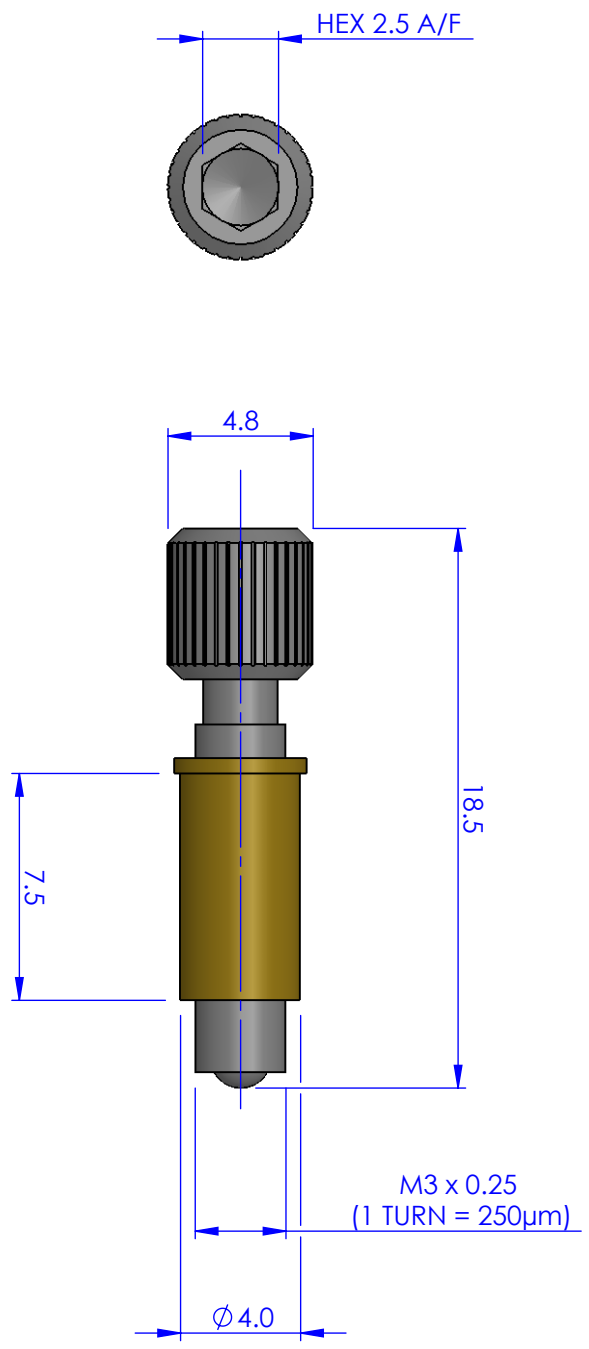
Long travel version - 10 mm

For the latest price, contact us today.

REV.	DESCRIPTION	DATE	APPROVED



GENERAL VIEW
SCALE: 4:1



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 AND CORNERS TO BE
 REMOVED

NAME	DATE
AUTHOR GW	02/06/2010
CHECKED	
MATERIAL	

TITLE	MDE208 ADJUSTER
SIZE	A4
DWG. NO.	MDE208
SCALE: 1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

MDE213 Simple Adjuster with 3 mm travel



- 3 mm travel
- Ultra-miniature
- Very smooth operation
- Very fine thread - 0.25 mm pitch
- Designed specifically for micropositioning applications
- Positioning to 0.5 μm using the supplied 1.27 AF Ball Drive key
- Long life stainless steel spindle with hard steel ball tip & nickel silver nut



This miniature adjuster is used in the MDE265 series micropositioners. It incorporates a 3 mm diameter mounting spigot. A ball drive key is supplied to effect adjustments.

Specifications

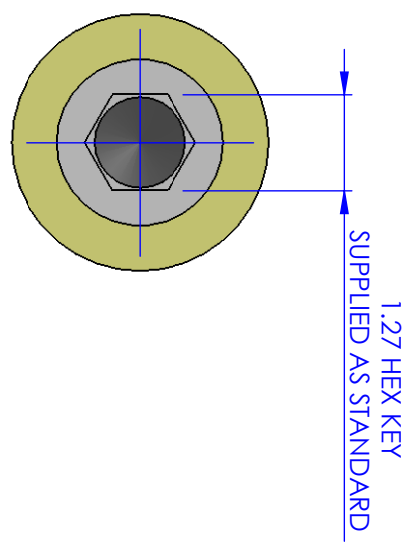
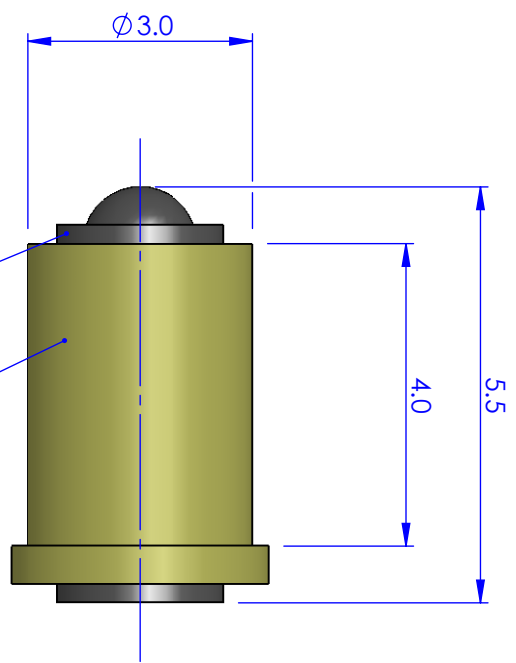
Travel	0 ~ 5 mm
Thread	0.25 mm pitch
Sensitivity	0.5 μm

Options

Long travel version

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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NAME	DATE
AUTHOR GW	23/04/2008
CHECKED	
MATERIAL	

Eliot Scientific

TITLE
M2.2 ADJUSTER

SIZE
A4

DWG. NO.
MDE213

SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

DO NOT SCALE DRAWING

Micrometers, Adjusters, Piezos & Inertial Drives: Miniature Adjusters

MDE214 Simple Adjuster with 10 mm travel



- 10 mm travel
- Compact design
- Very smooth operation
- Positioning to 0.5 μm
- Very fine thread - 0.25 mm pitch
- Designed specifically for micropositioning applications
- Long life stainless steel spindle with hard steel ball tip & nickel silver nut

ELLIOT MARTOCK

This miniature adjuster is used in the MDE255 and MDE260 series micropositioners. It incorporates a side mounting bar and a knurled knob facilitates simple adjustment.

Specifications

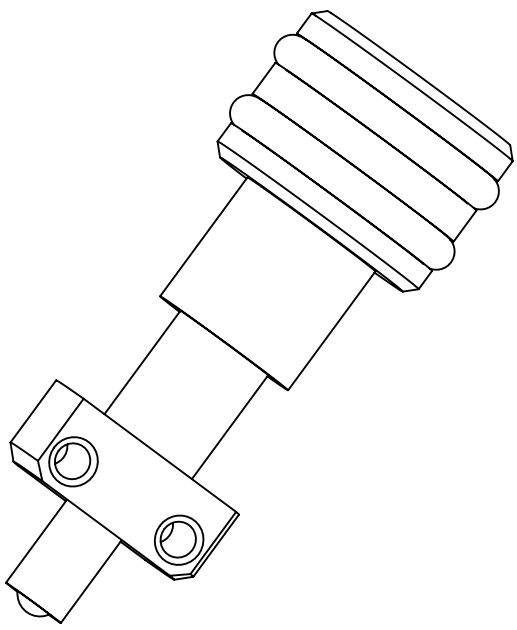
Travel	0 ~ 10 mm
Thread	0.25 mm pitch
Sensitivity	0.5 μm

Options

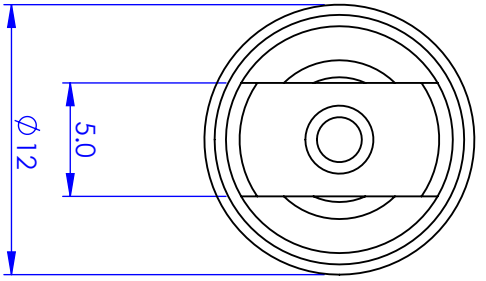
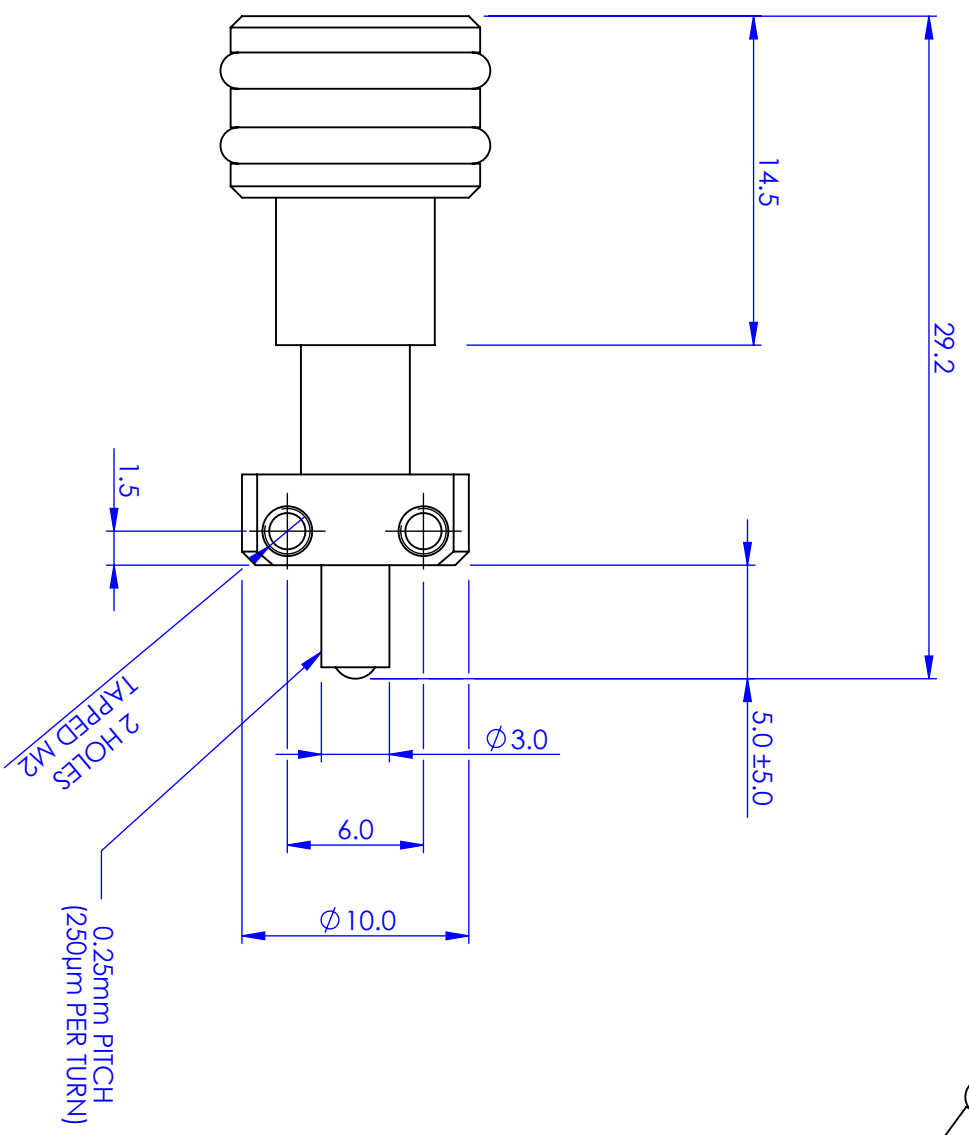
Short travel version

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REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 3:1



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AUTHOR	NAME	DATE
CHECKED	GW	07/04/2010

Elliott Scientific

TITLE: **ADJUSTER**

SIZE: **A4** DWG. NO.: **MDE214**

DO NOT SCALE DRAWING

SCALE: 3:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

E200 Simple Adjuster with 12 mm travel



- 12 mm travel
- Compact design
- Very smooth operation
- Positioning to 0.5 μm
- Highest quality hand-lapped adjusters
- Hex drive adjusters with removable knurled knobs
- Designed specifically for micropositioning applications
- Very fine thread - 0.25 mm pitch (~100 turns/inch thread)
- Long life stainless steel spindle with hard steel ball tip & nickel silver nut

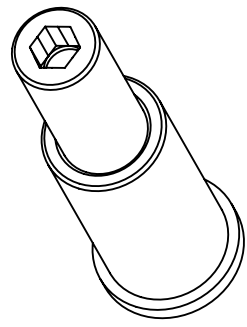
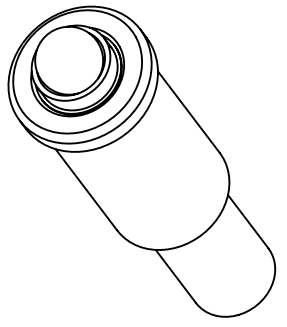
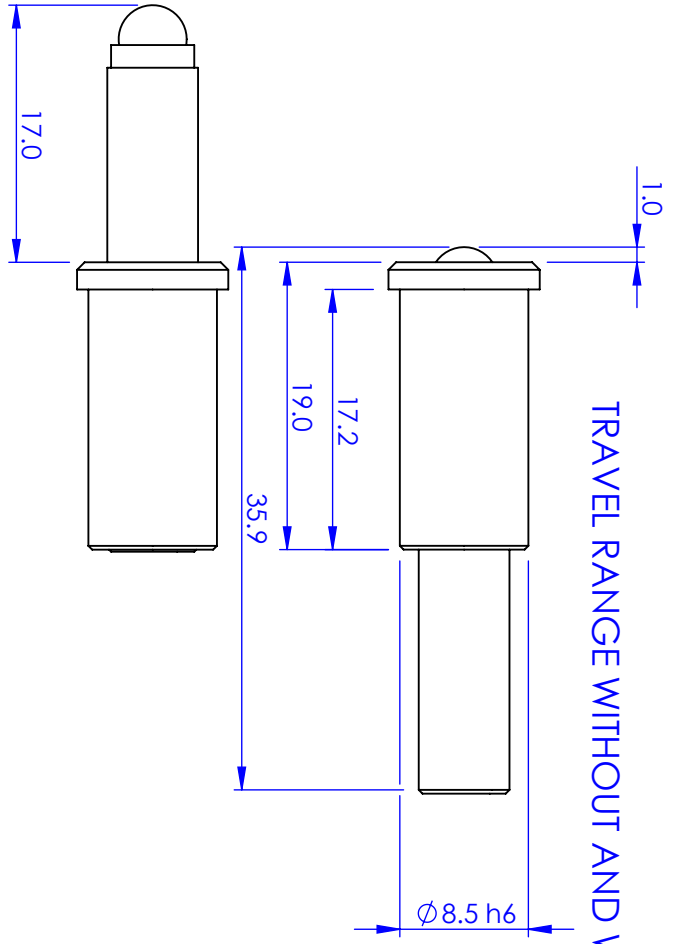
This miniature adjuster is used in the E901, E902 and E910 series micropositioners. Adjustment is either via a removable knurled knob or a 3 mm hex socket.

Specifications

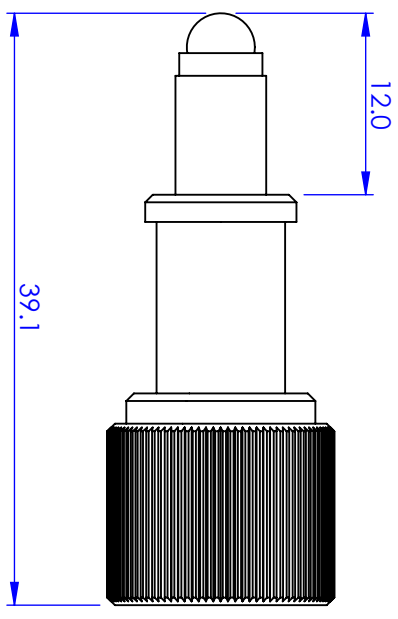
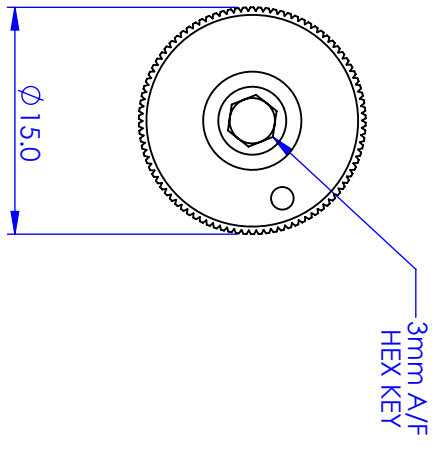
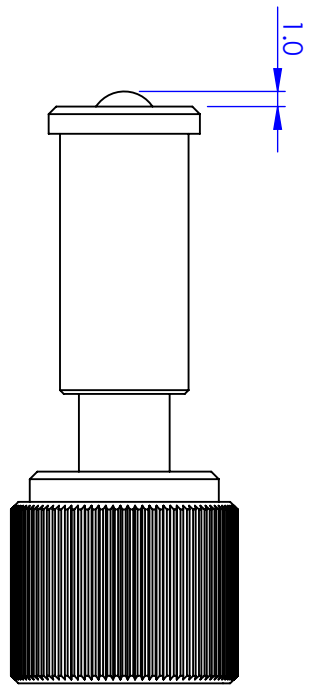
Travel	0 ~ 12 mm
Thread	0.25 mm pitch
Sensitivity	0.5 μm

For the latest price, contact us today.

TRAVEL RANGE WITHOUT AND WITH REMOVEABLE KNOB



GENERAL VIEWS
SCALE: 2:1



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NAME	DATE
AUTHOR GW	15/09/2006
CHECKED	
MATERIAL	

TITLE E-200 ADJUSTER	
SIZE A4	DWG. NO. E-200 Adjuster
SCALE: 2:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Micrometers, Adjusters, Piezos & Inertial Drives: Micrometers

MDE206 Micrometer Adjuster with 5 mm travel



- Very compact
- 0.01 mm graduations, 0.5 mm per revolution
- Very smooth motion allows positioning to 1 μm
- Rubber rings provide a sensitive but precise grip
- Designed specifically for micropositioning applications
- Stainless steel screw with hard steel ball on spindle tip



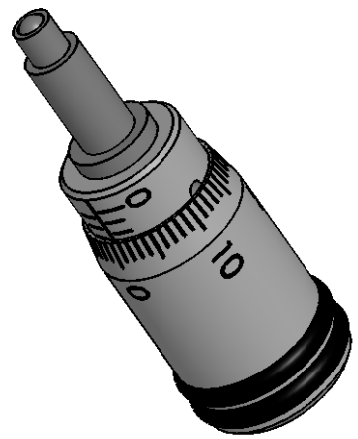
This micrometer features rubber finger grips and very smooth motion that give a linear sensitivity of 1 μm . Graduations indicate 10 μm of linear travel.

Specifications

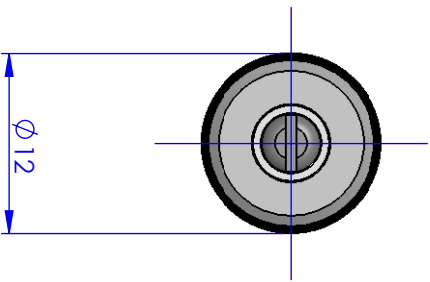
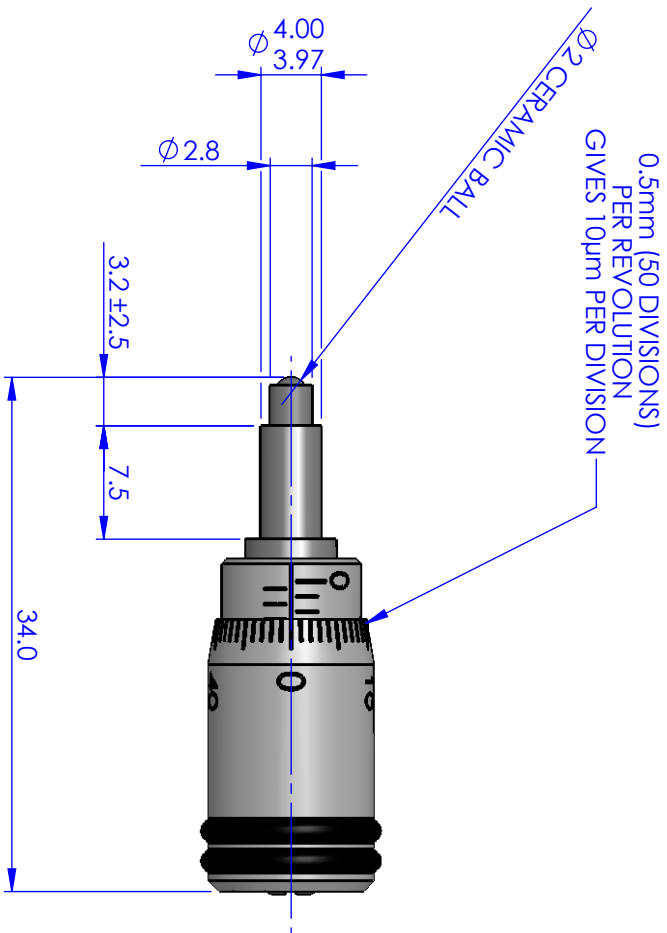
Travel	0 ~ 5 mm
Displacement	0.5 mm per revolution
Graduations	10 μm
Sensitivity	1 μm
Spigot diameter	4 mm

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GENERAL VIEW



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AUTHOR	NAME	DATE
CHECKED	GW	22/04/2008

Eliot Scientific	
5mm TRAVEL MICROMETER	
TITLE	DWG. NO.
SIZE	MDEF206
A4	DWG. NO.
SCALE: 1:1	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	SHEET 1 OF 1

Micrometers, Adjusters, Piezos & Inertial Drives: Micrometers

MDE219 Micrometer Adjuster with 10 mm travel



- Very compact
- 0.01 mm graduations, 0.5 mm per revolution
- Very smooth motion allows positioning to 1 μm
- Rubber rings provide a sensitive but precise grip
- Designed specifically for micropositioning applications
- Stainless steel screw with hard steel ball on spindle tip



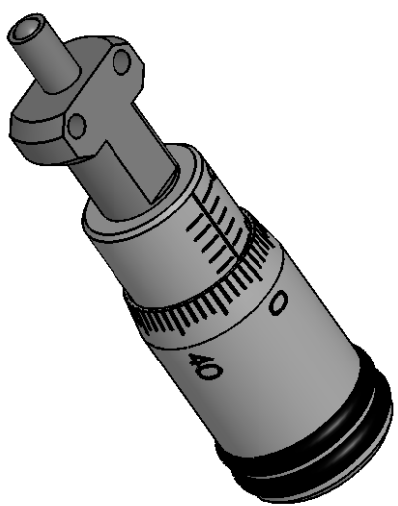
This micrometer features rubber finger grips and very smooth motion that give a linear sensitivity of 1 μm . Graduations indicate 10 μm of linear travel.

Specifications

Travel	0 ~ 10 mm
Displacement	0.5 mm per revolution
Graduations	10 μm
Sensitivity	1 μm
Mounting	M2 tapped holes x2

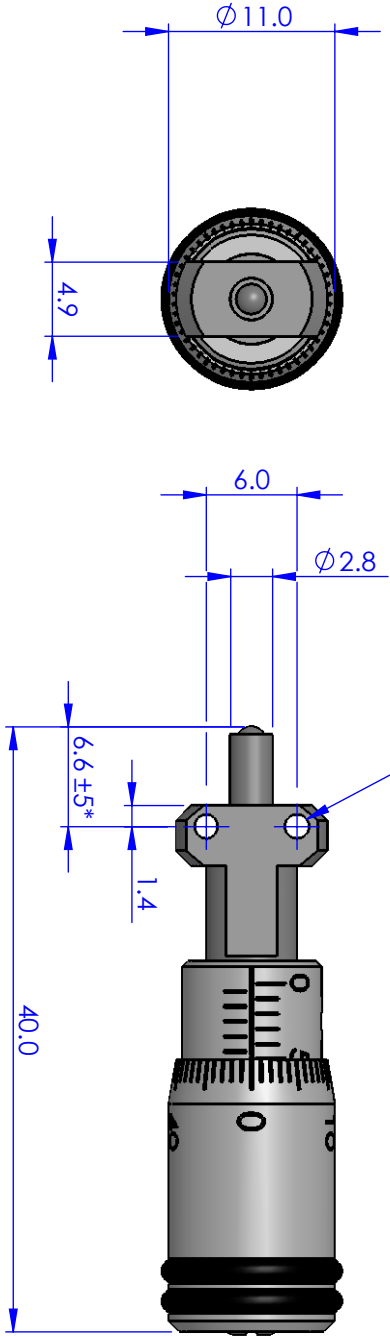
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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



2 HOLES TAPPED M2

GENERAL VIEW



*MDE219 HAS $\pm 5\text{mm}$ OF TRAVEL FROM POSITION SHOWN.
SCREW PITCH IS 0.5 SO ONE COMPLETE TURN GIVES
 0.5mm OF TRAVEL AT $10\mu\text{m}$ PER DIVISION

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REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	22/04/2008

Elliott Scientific	
MATERIAL	TITLE
ALUM. ALLOY, NICKEL SILVER, STAINLESS STEEL	$\pm 5\text{mm}$ TRAVEL MICROMETER
FINISH	SIZE
---	A4
DO NOT SCALE DRAWING	DWG. NO.
SCALE: 2:1	MDE219
THIRD ANGLE PROJECTION	
	SHEET 1 OF 1

Micrometers, Adjusters, Piezos & Inertial Drives: Micrometers

MD-Mitutoyo Digital Micrometer Adjuster with 25 mm travel



- Data hold
- Data output
- Zero setting
- Large LCD display
- Inch/metric conversion
- Tungsten carbide tip
- Reads to 1 μm or 0.00005"



Digital micrometer with direct read-out of position to 1 μm on LCD display. Very smooth motion that gives a linear sensitivity of 0.5 μm .

Specifications

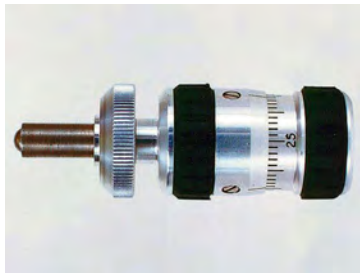
Travel	0 ~ 25 mm
Displacement	0.635 mm (0.025") per revolution
Graduations	0.001"
Sensitivity	0.5 μm
Mounting shaft	9.5 mm \varnothing

For the latest price, contact us today.

Elliot Scientific

Micrometers, Adjusters, Piezos & Inertial Drives: Precision Adjusters

MDE215 Ultra Fine Mirror Mount Adjuster



- 20 nm resolution
- Lockable coarse drive
- Provides ultra-fine adjustment
- Retrofits existing mirror mounts
- Fits the ¼-80 tapped hole
- Improves resolution



The MDE215 incorporates a patented† mechanical lever that can achieve a linear sensitivity of 20 nm. Suitable for retrofitting to existing optical mounts, as it fits the 1/4-80 tapped hole typically found on kinematic mirror mounts, enhancing their adjustment precision.

Specifications

Resolution	20 nm
Mounting size	¼-80 tapped thread

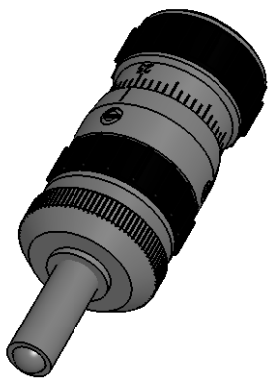
Options

Elliot Scientific can supply a mirror mount for 1" optics fitted with two MDE215 adjusters. Resolution is increased from around 2 arc seconds to 0.1 arc seconds.

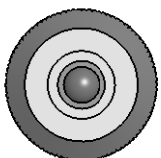
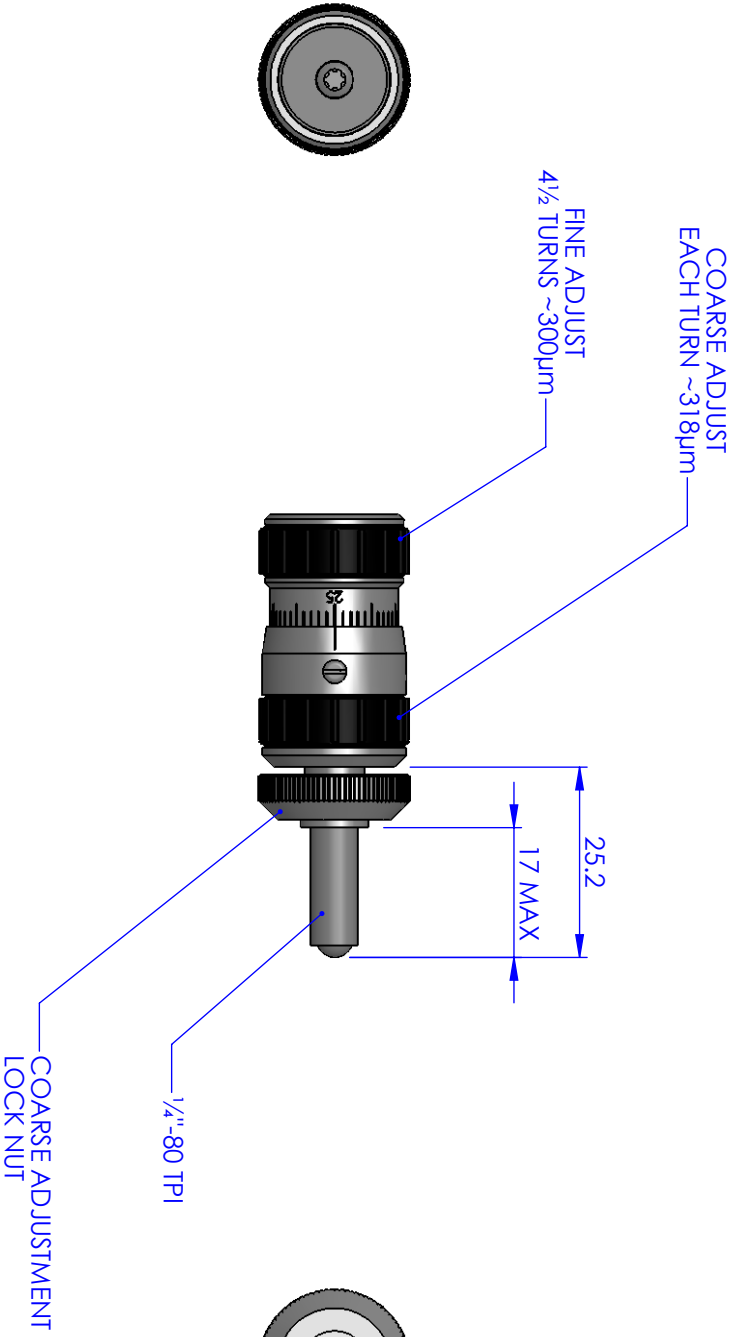
† Patent Nos. GB 2152616B & USA 4617833

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GENERAL VIEW
SCALE: 1:1



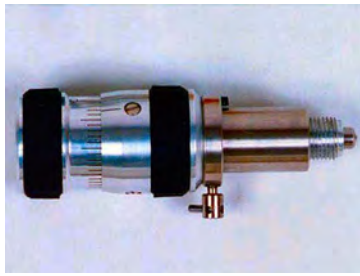
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AUTHOR	NAME	DATE
CHECKED	GW	12/02/2010
MATERIAL		
FINISH		

Elliott Scientific	
TITLE HIGH PRECISION ADJUSTER	
SIZE A4	DWG. NO. MDE215
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

MDE216 High Precision Manual Adjuster



- Negligible backlash
- Graduated knob
- Output via non-rotating hard steel ball
- Positive travel limit stops on control knob
- Coarse adjustment: 8.0 mm travel at 1 μ m resolution
- Fine adjustment: 0.3 mm travel at 20 nm resolution
- Very smooth feel, largely independent of applied load
- Santoprene control ring allows a delicate touch and reduces heat transfer into the drive



The MDE216 high precision adjuster is based on a patented† mechanical lever system and is the highest resolution mechanical (non-piezo) adjuster in the Elliot Scientific range.

It is ideal for use with the Elliot Gold™ series flexure stages as it incorporates a 12 mm diameter matching sleeve. Travel is 8 mm (limited to 2 mm in flexure stages), with 20 nm resolution on the fine control.

Not all applications require that three adjusters be fitted in a flexure stage. Substitution with an MDE229 fixed axis spacer sets an axis in mid travel position and provides a cost saving. At a later date it can be replaced by an adjuster if user requirements change.

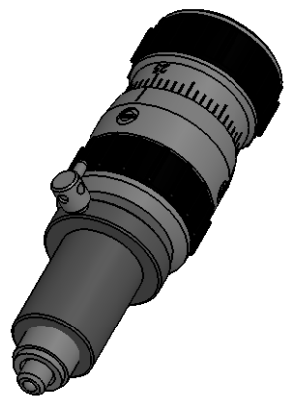
Specifications

Coarse adjustment	8 mm travel, 1 μ m resolution
Fine adjustment	0.3 mm travel, 20 nm resolution
Readout	Graduated knob with 50 arbitrary divisions

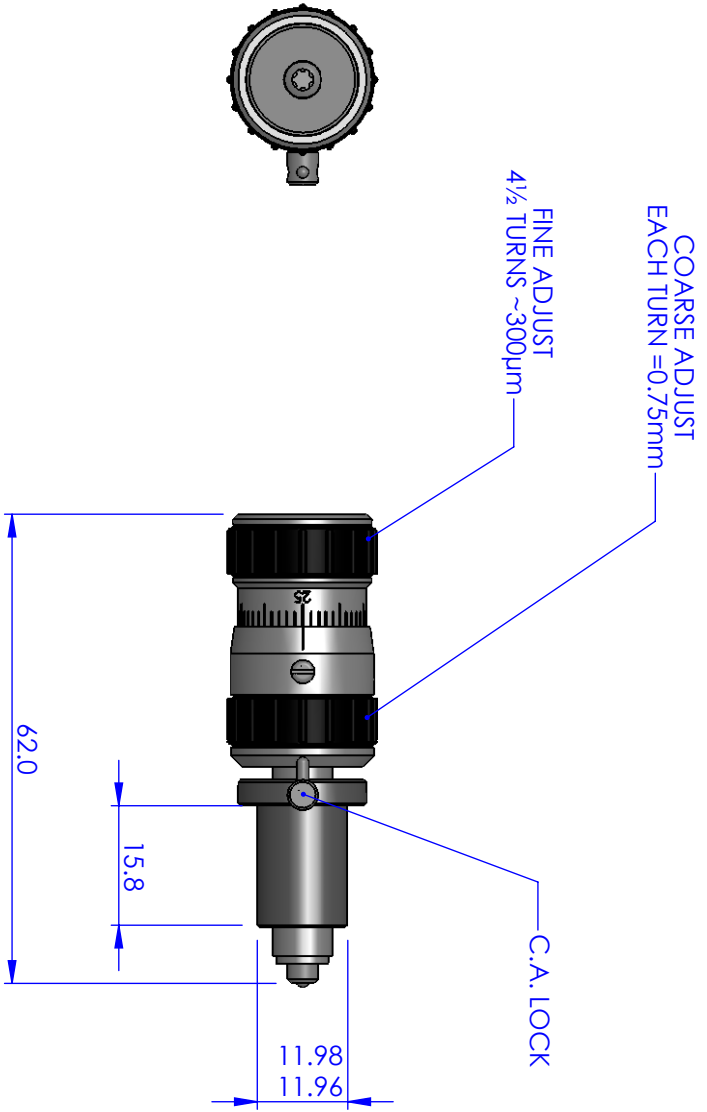
† Patent Nos. GB 2152616B & USA 4617833

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REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



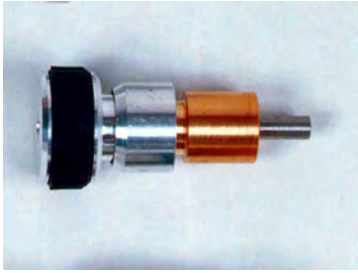
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AUTHOR	NAME	DATE
CHECKED	GW	12/07/2010
MATERIAL		
FINISH		

TITLE	
HIGH PRECISION ADJUSTER	
SIZE	DWG. NO.
A4	MDE216
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

MDE217 Simple Manual Adjuster



- 8.0 mm travel
- 1 μm resolution
- Cost effective



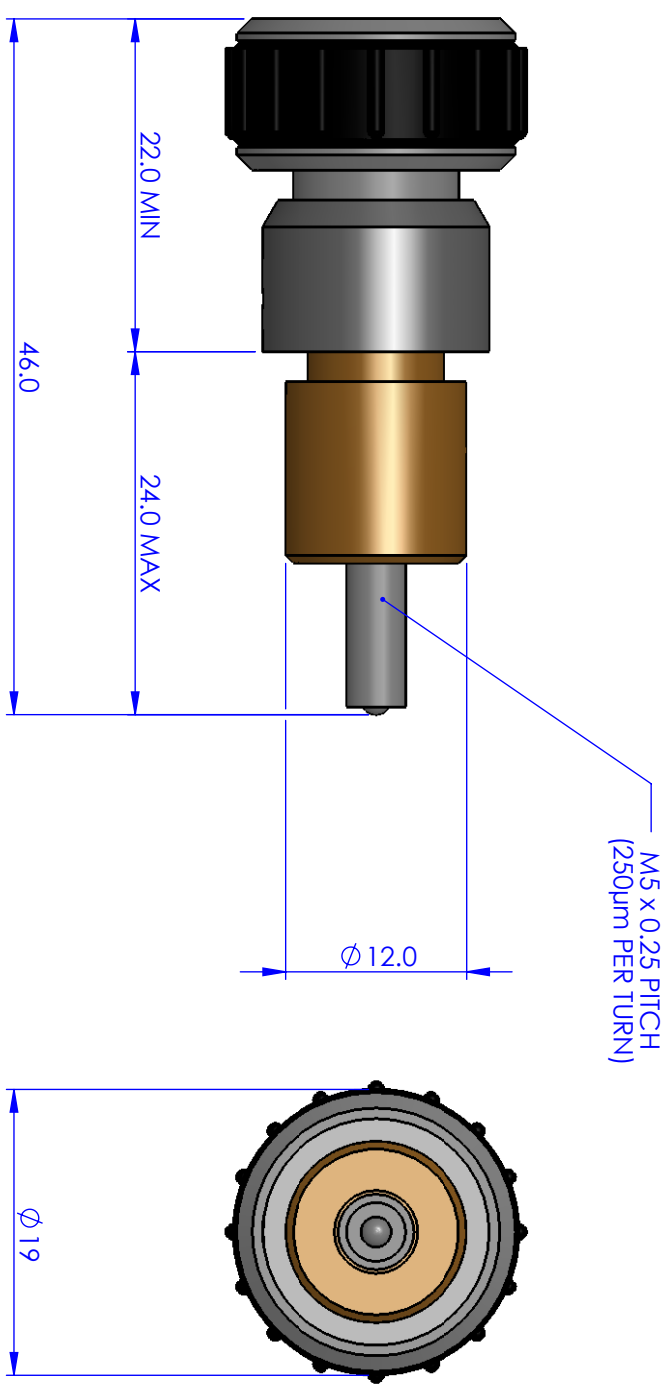
The MDE217 is a manual adjuster incorporating a 12 mm diameter sleeve matched to the Elliot Gold™ series flexure stages. It has 1 μm resolution and provides a cost effective solution where simple adjustment is required.

Specifications

Travel	8 mm
Resolution	1 μm
Thread type	0.25 pitch

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REVISIONS		DATE	APPROVED
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AUTHOR	NAME	DATE
CHECKED	GW	29/04/2008
MATERIAL		
FINISH		

Eliot Scientific

TITLE
SIMPLE ADJUSTER

SIZE
A4

DWG. NO.
MDE217

SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

Micrometers, Adjusters, Piezos & Inertial Drives: Precision Adjusters

MDE229 Fixed Axis Spacer



- Eliminates expense of high precision adjuster
- Preset to fit Elliot Gold™ series flexure stage

ELLIOT MARTOCK

A Fixed Axis Spacer is used when a third axis is not required on a flexure stage. For example, when used as an YZ waveguide mount between two XYZ stages.

Not all applications require that three adjusters be fitted in a flexure stage. Substitution with an MDE229 fixed axis spacer sets an axis in mid travel position and provides a cost saving. At a later date it can be replaced by an adjuster if required.

For the latest price, contact us today.

Elliot Scientific

MDE231 Stepper Motor Actuator: 8 mm travel



- Non-rotating spindle
- Resolution 0.254 μm single step
- Integral stepper motor drive and gearbox
- Integrates with Elliot Gold™ series flexure stages and rotation units



The MDE231 is a stepper motor-driven 8 mm travel actuator. The non-rotating spindle offers low noise translation or rotation when integrated with the Elliot Gold™ series flexure stages, pitch & yaw stages and rotation units. Developed for the demanding rotation and alignment of fibre optic components, it can be used anywhere that stable, accurate motion is needed.

Specifications

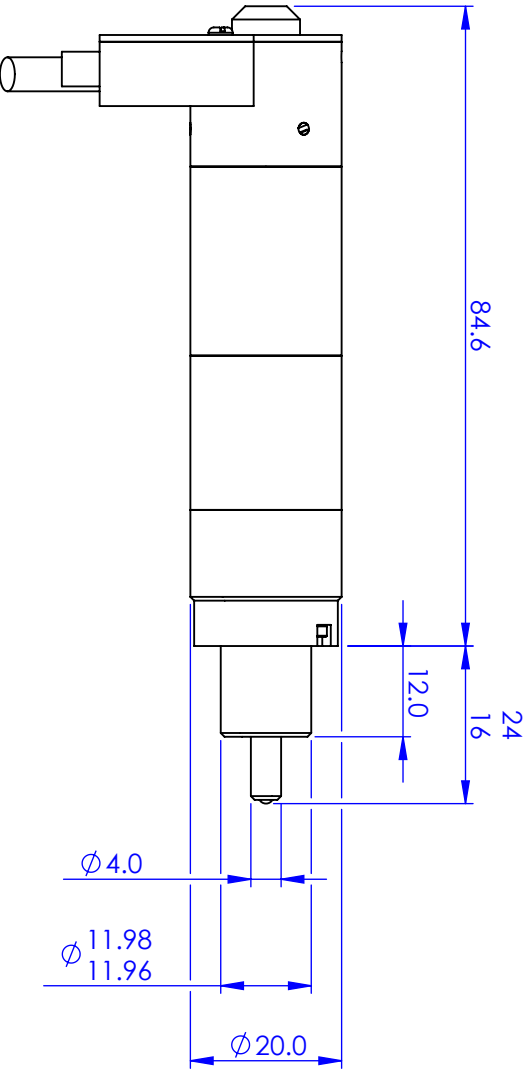
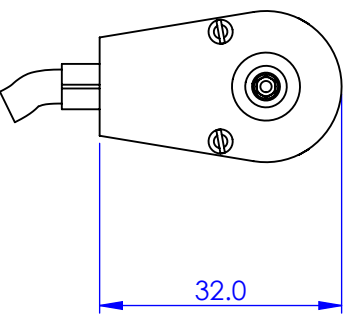
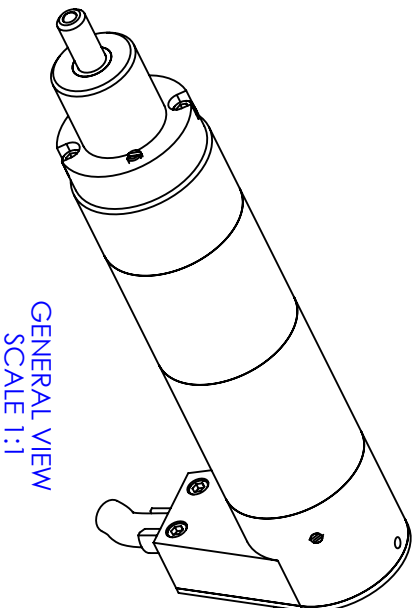
Travel	8 mm
Thread	0.254 μm pitch
Max. speed	0.5 mm/s
Non-rotating spindle	
Manual adjustment via hex key	

Options

Stepper drive controllers available

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



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NAME	DATE
AUTHOR GW	09/08/2010
CHECKED	
MATERIAL	
FINISH	

Eliot Scientific

8mm STEPPER MOTOR ACTUATOR

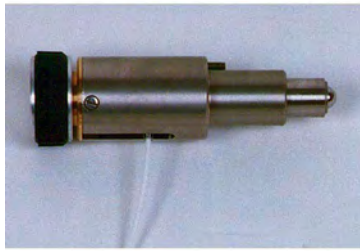
SIZE **A4** DWG. NO. **MDEF231**

SCALE: 1:1 THIRD ANGLE PROJECTION SHEET 1 OF 1

DO NOT SCALE DRAWING

Micrometers, Adjusters, Piezos & Inertial Drives: Piezo Adjusters

MDE218 Standard Piezo Adjuster with 25 µm travel



- 25 µm direct-drive piezo
- 8 mm coarse travel on 0.25 pitch thread
- Adjustable hard stop prevents damage to the piezo when axis is at full mechanical extension



Standard piezo adjuster for applications requiring greater resolution than that achievable with manual adjusters or where "hands free" operation of the positioner is required.

The MDE218 piezo adjuster offers 25 µm of direct-drive piezo travel with 10 nm resolution and incorporates a 12 mm sleeve matched to the Elliot Gold™ series flexure stage.

Specifications

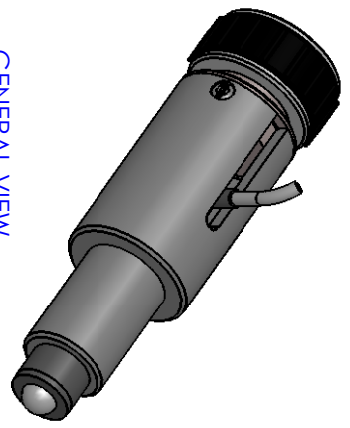
Travel	25 µm direct-drive piezo
Resolution	10 nm
Coarse travel	8 mm coarse travel on 0.25 pitch thread (limited to 2 mm when fitted to an Elliot Gold™ Series flexure stage)
Operating voltage	0 ~ 150 V
Hysteresis	12 ~ 15%
Adjustable hard stop prevents damage to the piezo when axis is at full mechanical extension	

Options

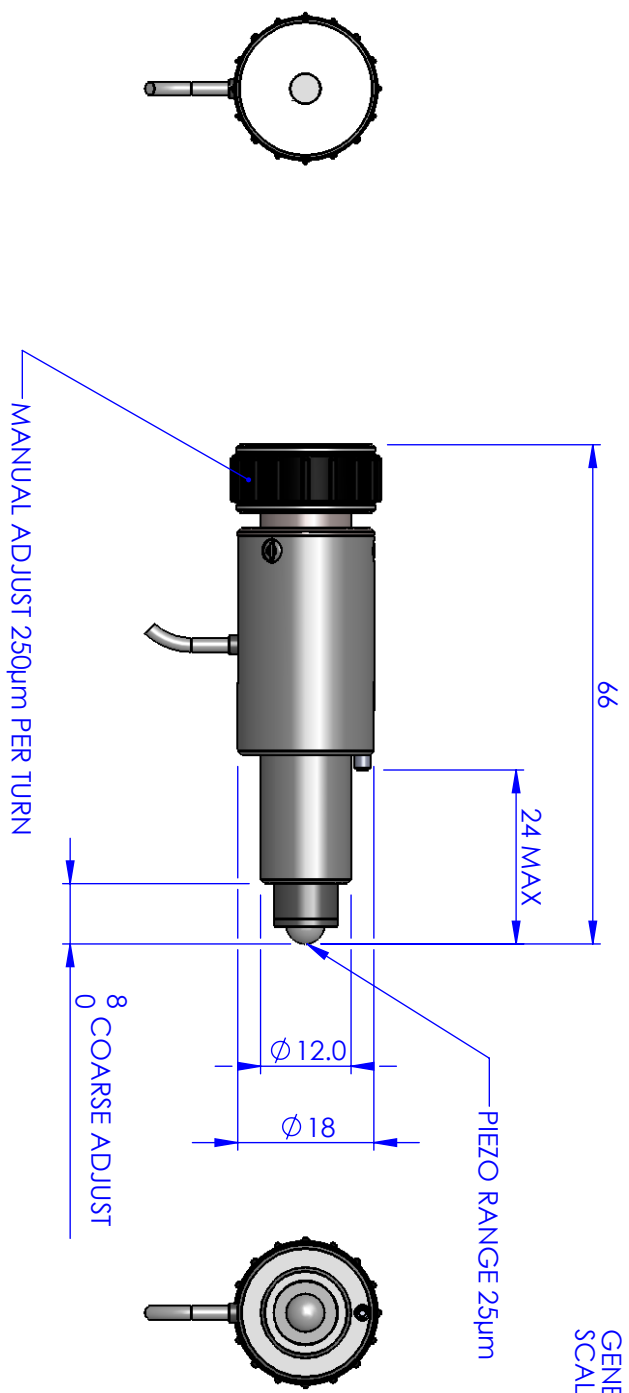
- Long travel 100 µm piezo adjuster (MDE227)
- Very long travel 200 µm piezo adjuster (MDE230)
- DALi2 piezo controller (E-2200)

For the latest price, contact us today.

REV.	DESCRIPTION	DATE	APPROVED



GENERAL VIEW
SCALE: 1:1



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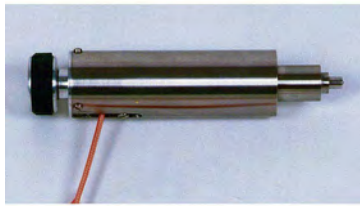
DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

NAME	DATE
AUTHOR GW	30/04/2008
CHECKED	---

TITLE PIEZO ADJUSTER	
SIZE A4	DWG. NO. MDE218
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Micrometers, Adjusters, Piezos & Inertial Drives: Piezo Adjusters

MDE227 Long Travel Piezo Adjuster with 100 µm travel



- 100 µm travel
- 50 nm resolution



This Long Travel Piezo Adjuster is for applications requiring an increased range of high precision adjustment. The MDE227 gives 100 µm of piezo travel with 50 nm resolution by means of a lever mechanism to amplify the extension of a 40 µm piezo stack. It also incorporates a 12 mm sleeve matched to the Elliot Gold™ series flexure stage.

On drives such as the MDE227, an integral hex adjuster is built into the coarse drive. This adjuster protrudes significantly from the flexure stage body, so finger pressure effects during manual adjustment can cause cross-talk between axes. Adjustment using a ball-headed hex key avoids these effects and the adjuster is driven in the intended axis only.

Specifications

Travel	100 µm piezo travel
Resolution	50 nm
Coarse travel	± 1 mm travel on coarse drive with 1 µm resolution
Operating voltage	0 ~ 150 V
Hysteresis	12 ~ 15%

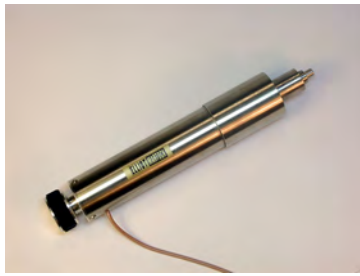
Options

- Standard travel 25 µm piezo adjuster (MDE218)
- Very long travel 200 µm piezo adjuster (MDE230)
- DALi2 piezo controller (E-2200)

For the latest price, contact us today.

Micrometers, Adjusters, Piezos & Inertial Drives: Piezo Adjusters

MDE230 Very Long Travel Piezo Adjuster with 200 µm travel



- 200 µm travel
- 130 nm resolution



This Very Long Travel Piezo Adjuster is for applications requiring an increased range of high precision adjustment.

The MDE230 gives 200 µm of piezo travel with 130 nm resolution by means of a lever mechanism to amplify the extension of a piezo stack. It also incorporates a 12 mm sleeve matched to the Elliot Gold™ series flexure stage. The MDE230 features an integral hex adjuster built into the coarse drive. The adjuster protrudes significantly from the flexure stage body, so finger pressure effects during manual adjustment can cause cross-talk between axes. Adjustment using a ball-headed hex key avoids these effects and the adjuster is driven in the intended axis only.

Specifications

Travel	200 µm piezo travel
Resolution	130 nm
Coarse travel	± 1 mm travel on coarse drive with 1 µm resolution
Operating voltage	0 ~ 150 V
Hysteresis	12 ~ 15%

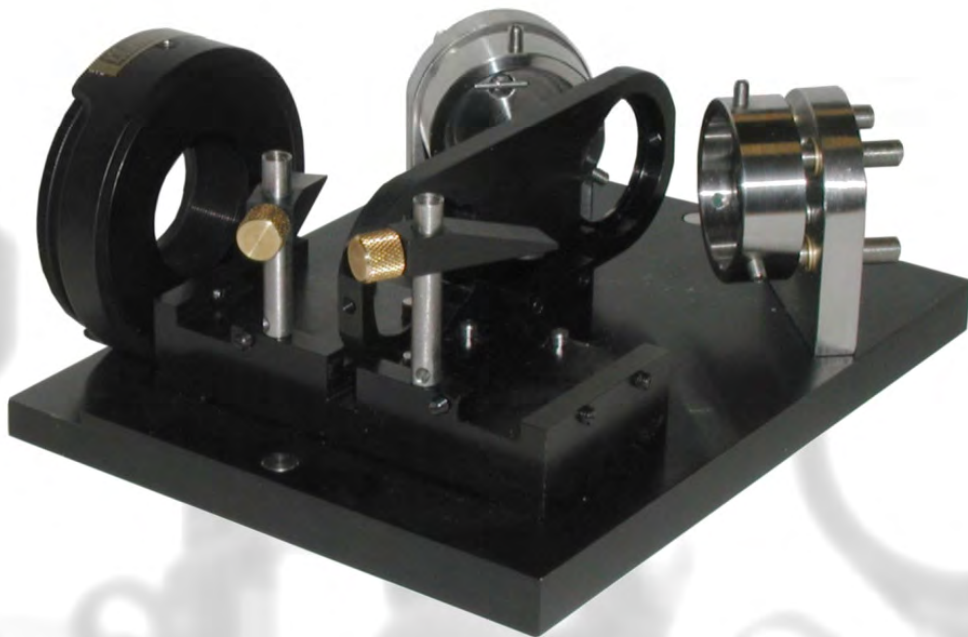
Options

- Standard travel 25 µm piezo adjuster (MDE218)
- Long travel 100 µm piezo adjuster (MDE227)
- DALi2 piezo controller (E-2200)

For the latest price, contact us today.

Opto-Mechanics 2012

Specialist Systems & Custom Design



Elliot Scientific

E2200 DALi 2 - Device Automatic Alignment System with IEEE Interface



- 3-Axis piezo controller for 150v actuators
- Menu-driven setup and operation
- Button search and optimize routine
- Store parameter sets for each alignment
- Full control over scan parameters
- Full IEEE-488.2 specification with LabVIEW drivers included
- Power meter display
- Floating input stage
- Clear LCD display - High visibility black-on-white LCD display

The Elliot Scientific E2200 DALi 2 is a 3-axis piezo controller for photonic device alignment using an automated feedback routine. It is compatible with a wide range of external optical detectors and facilitates rapid and automated alignment of photonic components across a wide range of applications.

The E2200 DALi 2 is a sophisticated 3-axes piezo actuator controller, designed to complement the piezo-driven versions of the Elliot Gold™ Series range of flexure stages, but which is also suited to other piezo devices working on 0 - 150 V. It works by locating and optimizing an optical signal fed back from any suitable external detector.

The user interface features a convenient menu-driven system with full control over the scan parameters. In addition an IEEE-488.2 interface is provided for full remote control of the instrument, allowing it to be incorporated into automated test and measurement rigs or production alignment systems. A complete set of parameters for any particular alignment can be stored and recalled, making it simple to switch between alignment tasks.

Specifications

Display Parameters	Piezo Voltage, Detector Current, Function, dB power level
Piezo Drivers	Three at 60 mA per channel
Voltage	0 - 150 V
Stability	< 0.1%
Output Noise	< 100 mV rms
Control	Automatic or manual for each of the three axes
Detector Input Source	Voltage or Current with 6 autoranges: 20 nA to 2 mA
Bias	-100 V to +100 V
Bandwidth	1 kHz (max)
Accuracy	0.1%

Options

- E2223 - DALi 2 E2200 with MDE123 piezo driven XYZ positioner (25 µm piezo travel)
- E2225 - DALi 2 E2200 with MDE125 piezo driven XYZ positioner (100 µm piezo travel)
- Rack mount kit

Continued overleaf...

E2200 DALi 2 - Continued



- Fibre-to-laser diode alignment
- Fibre-to-waveguide alignment
- Fibre-to-fibre coupling
- Fibre array-to-device alignment
- Compensation for epoxy drift during pigtailling
- Compensation for drift during long-term characterisation
- Simultaneous alignment of input & output fibres (or arrays)
- to waveguide device



Principle of Operation - DALi 2 works by continuously monitoring an optical feedback signal derived from the components being aligned and then adjusting their relative position in 3 axes to optimize the signal and hence their alignment. This signal can come from any suitable external optical detector plugged into the back of the unit.

The first step is to acquire a signal above the operating threshold of the system. This is done by selecting SEARCH from the front panel, at which point the piezo adjusters in the plane perpendicular to the optical axis are scanned over their full range of travel in a raster pattern. For example, for the long travel piezo adjusters (MDE227) this allows an area of 100 μm x 100 μm to be searched for an optical signal. As soon as a signal is found, an indication appears on the screen of the instrument and the unit switches (either manually or automatically) into TRACK mode.

In TRACK mode the signal is optimized by applying a small circular dither motion in the plane perpendicular to the optical axis to generate modulation within the detected signal. Proprietary algorithms are used to derive correction vectors from the modulated signal. These vectors are fed back to the corresponding piezo axes. This analogue process is iterated and the optimization occurs virtually in real time, with the whole procedure including the initial search taking a matter of seconds. If the optical system contains a focus point, then movement along the third axis can also be included within the TRACK mode procedure. Alternatively, the third axis position can be manually set.

Once the signal has been successfully located and optimized, the dither continues about the peak of the signal unless HOLD is selected from the menu. On this command the piezos are moved to the centre of the dither pattern coincident with the peak of the signal.

For critical alignment tasks that require the simultaneous optimization of two components to a third one, (eg where both input and output fibres need to be simultaneously aligned to a waveguide device) two DALi units can be operated together at different dither frequencies to independently optimise the alignment of the separate components.

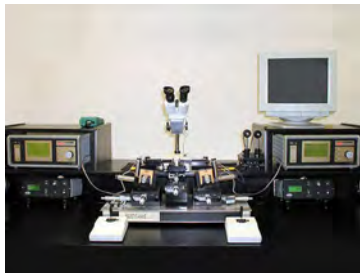
Specifications continued...

Automatic Alignment	
Programmable Dither	17 nm to 25 μm scan size (typical - actual scan size is piezo dependent), adjustable in XYZ
Programmable Gain	0 - 25 in steps of 0.1
Programmable Frequency	25 Hz to 325 Hz with Y and Z in quadrature, X independent
Threshold	0.5% full scale
IEEE 488 Interface	
Type	IEEE 488.2
Access	Full access to all setup, operation, menu commands
Drivers	LabVIEW and LabWindows/CVI

Accessories

- MDE218 - Piezo adjuster (25 μm)
- MDE227 - Piezo adjuster (100 μm)
- MDE230 - Piezo adjuster (200 μm)

E22884 E-Wedge™



- Automatic Alignment for Multi-channel Optical Devices



The E-Wedge™ system is designed to provide automatic alignment for multi-channel optical devices and fibre V-groove arrays. It includes automatic roll axis optimisation and compensation for angled device facets. The E-Wedge can be configured as a dual-ended automatic waveguide/device alignment workstation providing simultaneous alignment of input and output fibre arrays. The system can be customised to provide the number of axes needed for any particular devices. Holding fixtures are available for the full range of devices, fibres and v-groove arrays. Custom fixtures can also be provided.

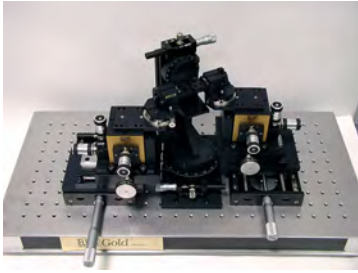
Automatic alignment is provided by two E2200 DALi controllers, designed to speed up and automate alignment in a wide range of applications such as laser diode to single-mode fibre, or input and output pigtailling to waveguide devices, couplers, splitters and WDMs. The E2200 includes a sophisticated 3-axis piezo actuator controller suitable for the piezo-actuated versions of our Elliot Gold™ Series flexure stages, and works by locating and optimising an optical signal fed back from any suitable detector.

The user interface features a convenient menu-driven system with full control over the scan parameters. An IEEE-488.2 interface with LabVIEW and LabWindows CVI drivers are provided for full remote control of the instrument, allowing it to be incorporated into automated test and measurement rigs or production alignment systems.

E-Wedge™ Resolution

25 µm piezo drive	10 nm in X, Y & Z axes
100 µm piezo drive	50 nm in X, Y & Z axes
Rotation	< 0.1 arc seconds

For the latest price, contact us today.

MDE22885 Semiconductor Optical Amplifier Aligner

- Slotted design for easy insertion and removal of fibre
- Full 360° rotation on all rotational axes
- Piezo drives available for linear axes
- Can be configured for variable facet angle
- Fibre held in V-groove clamps
- Standard V-groove for 125/250 µm fitted. (Custom sizes available.)

ELLIOT MARTOCK

The MDE22885 is a specialised system for the alignment of SOAs (semiconductor optical amplifiers) and other similar dual-ended devices with angled facets.

The system comprises two 5-axis stages with Elliot Gold™ Series flexure stages, long-travel base platforms and a 2-axis fibre rotation mount. The central unit is a 2-axis rotation device mount configured for mounting of passive or active single- or multi-channel planar devices.

The linear axes of the flexure stages can be automated with a E2200 DALi alignment controller and piezo adjusters. Automated alignment is of particular benefit when working with lensed fibres.

For the latest price, contact us today.

Specialist Systems & Custom Designs

MDE2350 PM Fibre Alignment



ELLIOT MARTOCK

- Slotted design for easy insertion and removal of fibre
- Full 360° rotation
- Integral stepper motor drive
- Resolution < 0.01° single step
- Maximum speed 18°/s (20 s for 360°)
- Fibre held in variable-force V-groove clamps
- Standard V-groove for 125/250 µm fitted. (Custom sizes available.)
- V-block preset on axis with < 1 µm concentricity error
- Stepper drive controllers available with LabVIEW drivers for
- auto rotation alignment

The MDE2350 comprises an MDE235 motorised fibre rotator mounted on an Elliot Gold™ Series 3-axis piezo-driven flexure stage. A DALi alignment system is used to maintain alignment while the fibre is rotated.

Designed for the alignment of angular-sensitive components, the MDE2350 is particularly effective for the alignment of polarisation-maintaining fibre and components.

For the latest price, contact us today.

Specialist Systems & Custom Designs

MDE9183 Fibre Collimator Aligner



ELLIOT MARTOCK

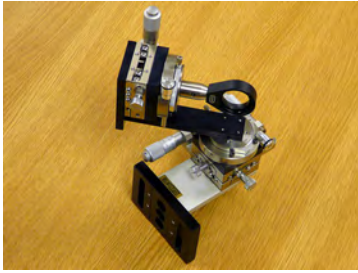
- Slotted design for easy insertion and removal of fibre
- Full 360° rotation
- Integral stepper motor drive
- Resolution <math><0.01^\circ</math> single step
- Maximum speed 18°/s (20s for 360°)
- Fibre held in variable-force V-groove clamps
- Standard V-groove for 125/250 μm fitted. (Custom sizes available.)
- V-block preset on axis with <math><1\mu\text{m}</math> concentricity error
- Stepper drive controllers available with LabVIEW drivers for
- auto rotation alignment

The MDE9183 is configured for the alignment of fibre collimators. It utilises the accurate MDE185 two axis pitch and yaw stage in combination with Elliot Gold™ Series flexure stages giving accurate 5-axis control.

Includes model MDE154 clamp set.

For the latest price, contact us today.

E22933 Five-Axis Lens Positioning Stage



- Combination of precision rotation stages and slides
- 5 degrees of independent movement
- 10 μm micrometer adjusters
- 360° free rotation in two axes with clamp screws
- Tangent screws for fine adjustment



The E22933 combines Elliot Scientific's precision manufacturing and expertise in component design to provide a specialist lens holding stage with two axes of independent rotational movement combined with three in precise linear slide motion.

Larger or smaller units can be manufactured as the design is scalable. If you have specific interests for different sizes, then please let us know.

For the latest price, contact us today.



Opto-Mechanics 2012

Lab Essentials





Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E911 Adjustable High Precision Mirror Mount Frame with 1" Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- Hex drive adjusters with removable knurled knobs
- M6 mounting holes (x 5) for on-axis post mounting
- User configurable left-hand or right-hand geometry
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread
- Accepts interchangeable front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics with rear optic loading
- for repeatable location of mirror face

The E910 Series kinematic mirror mounts consist of a precision frame with adjusters to which the user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm.

These mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base. Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Interchangeable front plates boost the versatility of these mounts as the same frame can accommodate a variety of optic sizes. Furthermore, on-line mirrors can be quickly replaced with alternative optics preloaded off-line into additional front plates.

Specifications

Mirror size	Interchangeable front plate for 1"/25 mm optics (Supplied)
Angular range	$\pm 4.5^\circ$
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations

Interchangeable front plate optic holders (see below)

E200 market-leading adjusters available separately

Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E912 Precision frame with adjusters and 2 inch/50 mm front plate

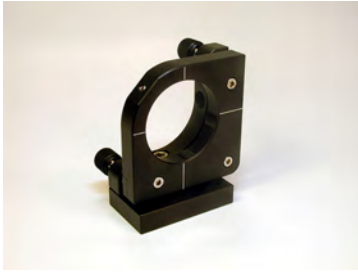
E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E912 Adjustable High Precision Mirror Mount Frame with 2" Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- Hex drive adjusters with removable knurled knobs
- M6 mounting holes (x 5) for on-axis post mounting
- User configurable left-hand or right-hand geometry
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread
- Accepts interchangeable front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics with rear optic loading
- for repeatable location of mirror face

The E910 Series kinematic mirror mounts consist of a precision frame with adjusters to which the user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm.

These mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base. Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Interchangeable front plates boost the versatility of these mounts as the same frame can accommodate a variety of optic sizes. Furthermore, on-line mirrors can be quickly replaced with alternative optics preloaded off-line into additional front plates.

Specifications

Mirror size	Interchangeable front plate for 2"/50 mm optics (Supplied)
Angular range	$\pm 4.5^\circ$
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations

Interchangeable front plate optic holders (see below)

E200 market-leading adjusters available separately

Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

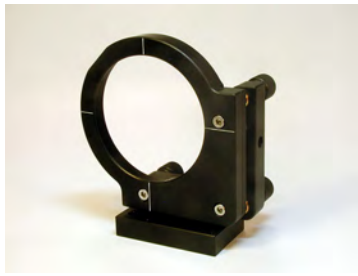
E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E913 Adjustable High Precision Mirror Mount Frame with 3" Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- Hex drive adjusters with removable knurled knobs
- M6 mounting holes (x 5) for on-axis post mounting
- User configurable left-hand or right-hand geometry
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread
- Accepts interchangeable front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics with rear optic loading
- for repeatable location of mirror face

The E910 Series kinematic mirror mounts consist of a precision frame with adjusters to which the user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm.

These mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base. Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Interchangeable front plates boost the versatility of these mounts as the same frame can accommodate a variety of optic sizes. Furthermore, on-line mirrors can be quickly replaced with alternative optics preloaded off-line into additional front plates.

Specifications

Mirror size	Interchangeable front plate for 3"/75 mm optics (Supplied)
Angular range	$\pm 4.5^\circ$
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations

Interchangeable front plate optic holders (see below)

E200 market-leading adjusters available separately

Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

sales@elliottscientific.com

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Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E914 Adjustable High Precision Mirror Mount Frame with 4" Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- Hex drive adjusters with removable knurled knobs
- M6 mounting holes (x 5) for on-axis post mounting
- User configurable left-hand or right-hand geometry
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread
- Accepts interchangeable front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics with rear optic loading
- for repeatable location of mirror face

The E910 Series kinematic mirror mounts consist of a precision frame with adjusters to which the user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm.

These mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base. Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Interchangeable front plates boost the versatility of these mounts as the same frame can accommodate a variety of optic sizes. Furthermore, on-line mirrors can be quickly replaced with alternative optics preloaded off-line into additional front plates.

Specifications

Mirror size	Interchangeable front plate for 4"/100 mm optics (Supplied)
Angular range	$\pm 4.5^\circ$
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations

Interchangeable front plate optic holders (see below)

E200 market-leading adjusters available separately

Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

E913 Precision frame with adjusters and 3 inch/75 mm front plate

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

EFP911 Interchangeable 1" (25 mm) Front Plate Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- User configurable left-hand or right-hand geometry
- Rear optic loading for repeatable location of mirror face
- Range of front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics
- Interchangeable front plate optic holders for E910 Series
- High Precision Mirror Mounts

The EFP91n Series front plate optic holders are for use with the E910 Series mirror mount frames. The user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm. The interchangeable front plates greatly boost the versatility of these mounts as the same frame can accommodate a variety of mirror sizes. Furthermore, on-line optics can be quickly replaced with alternative mirrors that have previously been preloaded off-line into additional front plates.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Specifications

Mirror size	Interchangeable front plate for 1"/25 mm optics (Supplied)
Angular range	± 4.5°
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations
 Interchangeable front plate optic holders (see below)
 E200 market-leading adjusters available separately
 Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

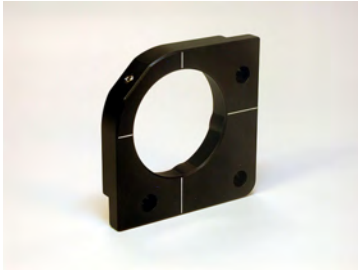
E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

EFP912 Interchangeable 2" (50 mm) Front Plate Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- User configurable left-hand or right-hand geometry
- Rear optic loading for repeatable location of mirror face
- Range of front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics
- Interchangeable front plate optic holders for E910 Series
- High Precision Mirror Mounts

The EFP91n Series front plate optic holders are for use with the E910 Series mirror mount frames. The user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm. The interchangeable front plates greatly boost the versatility of these mounts as the same frame can accommodate a variety of mirror sizes. Furthermore, on-line optics can be quickly replaced with alternative mirrors that have previously been preloaded off-line into additional front plates.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Specifications

Mirror size	Interchangeable front plate for 2"/50 mm optics (Supplied)
Angular range	$\pm 4.5^\circ$
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations
 Interchangeable front plate optic holders (see below)
 E200 market-leading adjusters available separately
 Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

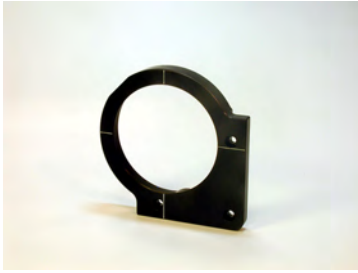
E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

EFP913 Interchangeable 3" (75 mm) Front Plate Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- User configurable left-hand or right-hand geometry
- Rear optic loading for repeatable location of mirror face
- Range of front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics
- Interchangeable front plate optic holders for E910 Series
- High Precision Mirror Mounts

The EFP91n Series front plate optic holders are for use with the E910 Series mirror mount frames. The user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm. The interchangeable front plates greatly boost the versatility of these mounts as the same frame can accommodate a variety of mirror sizes. Furthermore, on-line optics can be quickly replaced with alternative mirrors that have previously been preloaded off-line into additional front plates.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Specifications

Mirror size	Interchangeable front plate for 3"/75 mm optics (Supplied)
Angular range	± 4.5°
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations
 Interchangeable front plate optic holders (see below)
 E200 market-leading adjusters available separately
 Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP914 4 inch/100 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

EFP914 Interchangeable 4" (100 mm) Front Plate Optic Holder



- Nylon tipped clamping screw
- Excellent long term stability
- Engraved cross-hairs aid alignment
- User configurable left-hand or right-hand geometry
- Rear optic loading for repeatable location of mirror face
- Range of front plates for 1"/25 mm, 2"/50 mm, 3"/75 mm or 4"/100 mm optics
- Interchangeable front plate optic holders for E910 Series
- High Precision Mirror Mounts

The EFP91n Series front plate optic holders are for use with the E910 Series mirror mount frames. The user can fit different sizes of front plate to hold optics ranging from 1 inch/25 mm through to 4 inch/100 mm. The interchangeable front plates greatly boost the versatility of these mounts as the same frame can accommodate a variety of mirror sizes. Furthermore, on-line optics can be quickly replaced with alternative mirrors that have previously been preloaded off-line into additional front plates.

Optics are loaded via the rear of the front plate, and the front face of the mirror locates against a mechanical datum. Thus the critical optical surface always locates in the same place irrespective of the thickness of the mirror substrate. A nylon tipped screw positively locks the mirror optic against two machined pads within the front plate.

Specifications

Mirror size	Interchangeable front plate for 4"/100 mm optics (Supplied)
Angular range	± 4.5°
Angular resolution	2.5 arc seconds
Configuration	Right-hand or left-hand user changeable

Options

Custom configurations

Interchangeable front plate optic holders (see below)

E200 market-leading adjusters available separately

Mirror mounts for 1" / 25 mm, 2" / 50 mm, 3" / 75 mm or 4" / 100 mm optics (see below)

Variants

E910 Precision frame with adjusters - No front plate

Front plate optic holders:

EFP911 1 inch/25 mm front plate optic holder

EFP912 2 inch/50 mm front plate optic holder

EFP913 3 inch/75 mm front plate optic holder

E911 Precision frame with adjusters and 1 inch/25 mm front plate

E912 Precision frame with adjusters and 2 inch/50 mm front plate

E913 Precision frame with adjusters and 3 inch/75 mm front plate

E914 Precision frame with adjusters and 4 inch/100 mm front plate

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E901 High Precision L/H 25 mm (1") Mirror Mount



- M6 mounting holes (x 3)
- Nylon tipped clamping screw
- Excellent long term stability
- Soft mounting for optic protection
- 25 mm optic mounting (12.5 mm on request)
- Hex drive adjusters with removable knurled knobs
- Left-hand (E901) and right-hand (E902) versions
- Ultra-stable base with proven laser alignment performance
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread

The E900 series precision kinematic mirror mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base.

Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob. A nylon tipped locking screw positively locates the mirror optic against two compliant pads which minimise the stress applied to the optical substrate.

To improve access in confined spaces, both left-hand (E901) and right-hand (E902) versions are available.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 7.5^\circ$
Angular resolution	0.001°

Variants

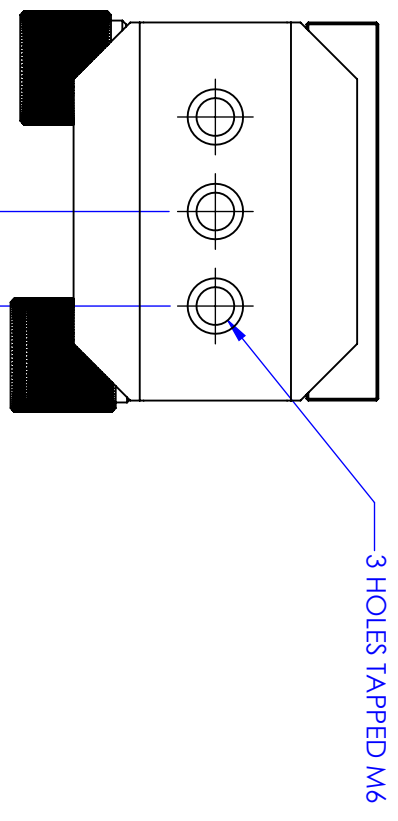
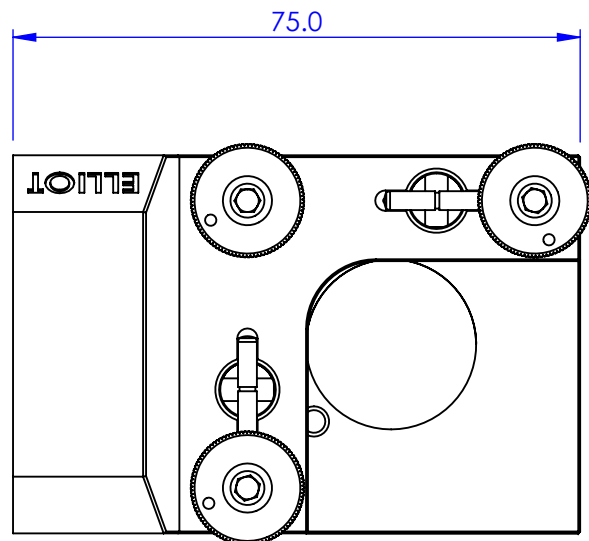
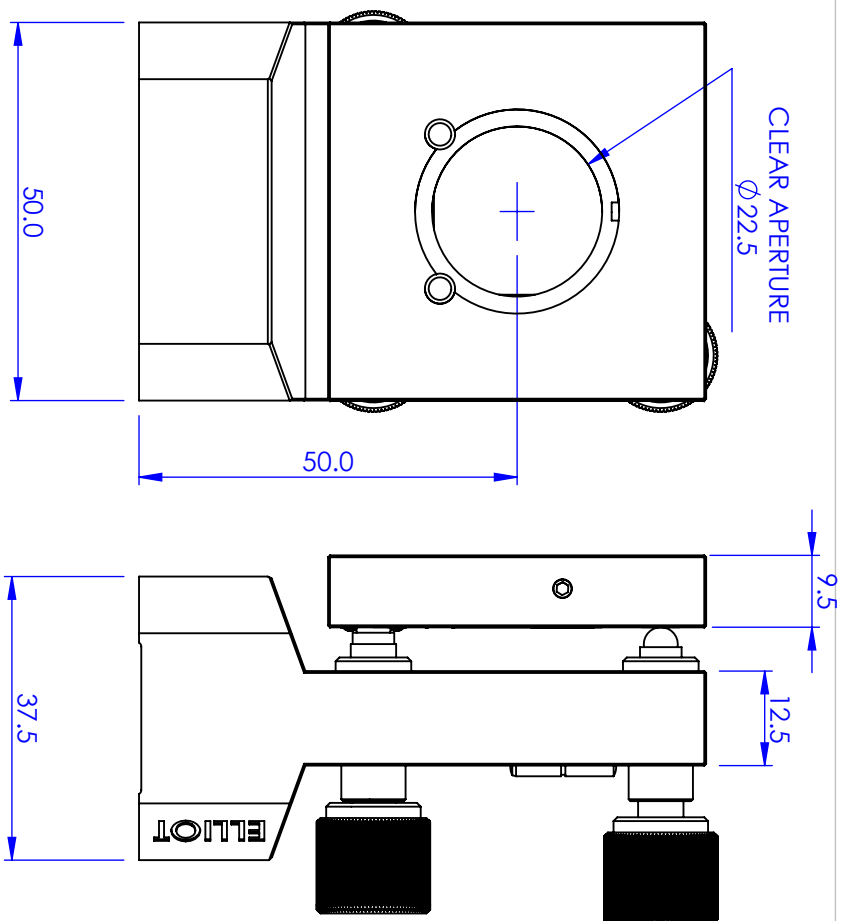
Right hand version
 12.5 mm optic mounting
 Custom configurations

Note

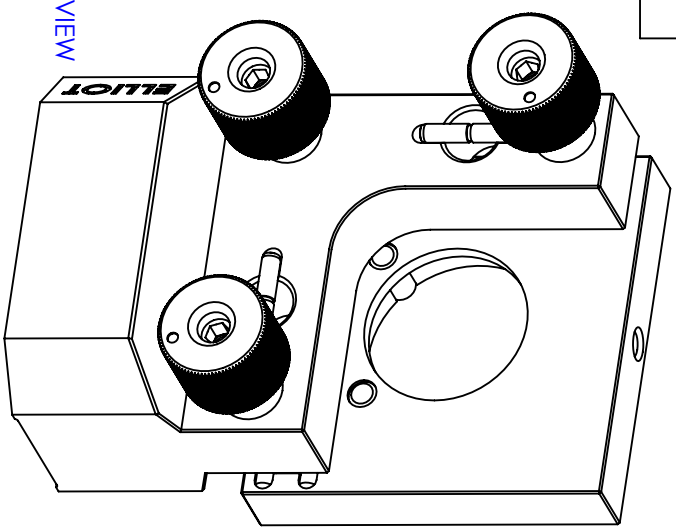
E200 market-leading adjusters available separately

For the latest price, contact us today.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



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DIMENSIONS ARE IN mm
 GENERAL TOLERANCES: ± 0.1
 ANGULAR TOLERANCES: ±
 SURFACE FINISH:
 ALL BURRS, SHARP EDGES
 AND CORNERS TO BE
 REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	16/09/2009
MATERIAL		
FINISH		

Elliott Scientific	
TITLE	E-901 Kinematic Mount Left L
SIZE	A4
DWG. NO.	E-901 Kinematic Mount
SCALE: 1:1	THIRD ANGLE PROJECTION
DO NOT SCALE DRAWING	SHEET 1 OF 1

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

E902 High Precision R/H 25 mm (1") Mirror Mount



- M6 mounting holes (x 3)
- Nylon tipped clamping screw
- Excellent long term stability
- Soft mounting for optic protection
- 25 mm optic mounting (12.5 mm on request)
- Hex drive adjusters with removable knurled knobs
- Left-hand (E901) and right-hand (E902) versions
- Ultra-stable base with proven laser alignment performance
- Uses unique 0.25 μm pitch highest quality hand-lapped adjusters with ~ 100 turns/inch thread

The E900 series precision kinematic mirror mounts use the highest quality hand-lapped adjusters to provide smooth and accurate adjustment for critical laser and optical alignment. The 0.25 pitch (approx 100 TPI) threaded screws provide a very high degree of sensitivity and control, and complement the excellent long term stability of the base.

Ease of use is enhanced by the provision of both a hex drive socket and a removable knurled knob. A nylon tipped locking screw positively locates the mirror optic against two compliant pads which minimise the stress applied to the optical substrate.

To improve access in confined spaces, both left-hand (E901) and right-hand (E902) versions are available.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 7.5^\circ$
Angular resolution	0.001°

Variants

Right hand version
 12.5 mm optic mounting
 Custom configurations

Note

E200 market-leading adjusters available separately

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: High Precision Kinematic Mirror Mounts

MDE320 25 mm (1") Ultra-fine Kinematic Mirror Mount



- 25 mm optic mounting
- Angular resolution 0.1 arc secs
- Lockable coarse drive on adjusters
- Patented† mechanical lever system on adjusters



The MDE320 mount consists of a conventional kinematic mirror mount for 25 mm (1 inch) optics fitted with two MDE215 ultra-fine mirror mount adjusters.

The MDE215 adjusters used on the MDE320 mirror mount incorporate a patented mechanical lever system to achieve a linear sensitivity of 20 nm. This plus the ability to lock the coarse drive gives much improved precision of the mirror mount.

Specifications

Mirror size	1" / 25 mm diameter
Angular resolution	0.1 arc seconds
Adjusters	MDE215 Ultrafine Mirror Mount Adjuster, with coarse (lockable) and fine drive x 2

† Patent Nos. GB 2152616B & USA 4617833

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Standard Kinematic Mirror Mounts

KMP021 Standard 1/2" (12.5 mm) Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Left or right-handed mounting
- Imperial and metric compatible
- Two M4-0.25 pitch hex drive adjusters

A quality 1/2" mirror mount for general laboratory applications. Clearance hole for imperial and metric mounting. Features M4-0.25 pitch adjusters with hex key drive. A nylon tipped set screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement even with small adjustments.

Specifications

Mirror size	1/2" / 12.7 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	7 arc seconds
Configuration	Right-hand or left-hand
Base mounting	M4 (#8-32) counterbored mounting clearance hole

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Standard Kinematic Mirror Mounts

KMP121 Standard 1" (25 mm) Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Left or right-handed mounting
- Imperial and metric compatible
- $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive



A quality 1" mirror mount for general laboratory applications. Clearance hole for imperial and metric mounting. Features $\frac{1}{4}$ "-80 adjusters with removable knobs and hex key drive. A nylon tipped set screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement even with small adjustments.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	5 arc seconds
Configuration	Right-hand or left-hand
Base mounting	M4 (#8-32) clearance hole

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Standard Kinematic Mirror Mounts

KMP221 Standard 2" (50 mm) Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Left or right-handed mounting
- Imperial and metric compatible
- $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

A quality 2" mirror mount for general laboratory applications. Clearance hole for imperial and metric mounting. Features $\frac{1}{4}$ "-80 adjusters with removable knobs and hex key drive. A nylon tipped set screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement even with small adjustments.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand or left-hand
Base mounting	Six M4 (#8-32) counterbored clearance mounting holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Standard Kinematic Mirror Mounts

KTO121 1" Threaded Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Load optics from the rear
- Left or right-handed mounting
- Imperial and metric compatible
- Particularly suitable for thin optics
- Holds 1" (25.4 mm) optics up to 6.5 mm thick
- Threaded retaining ring to reduce optic distortion
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

A quality 1" mirror mount with rear loading and a threaded retaining ring to minimise optic distortion. Clearance holes for imperial and metric mounting. Features two $\frac{1}{4}$ "-80 adjusters with hex drive and removable knobs. Stainless steel adjusters act on hardened inserts to ensure smooth movement even with small adjustments. One ORR100 retaining ring is included with each mount and additional rings are available separately.

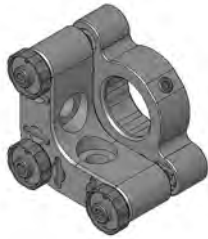
Specifications

Mirror size	1" / 25 mm diameter
Mirror thickness	$\frac{1}{2}$ " / 6.5 mm
Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right hand, left hand or horizontal mounting
Base mounting	M4 (#8-32) clearance mounting holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Locking Kinematic Mirror Mounts

KML031 ½" (12.5 mm) Locking Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Superior locking mechanism
- Left or right-handed mounting
- Imperial and metric compatible
- Angular adjustment and translation
- Three ¼-80 adjusters with removable knobs and hex drive

A quality half inch locking mirror mount for demanding applications. With clearance holes for imperial and metric mounting.

It features three ¼-80 adjusters with removable knobs and hex drive allowing both angular adjustment and translation. A nylon tipped set-screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement, even with small adjustments.

Locking is performed by a superior mechanism that virtually eliminates movement during the locking process. Once positioned, the adjusters are held in place by a simple twist of the scalloped lock ring.

Specifications

Mirror size	½" / 12.7 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	7 arc seconds
Configuration	Right-hand or left-hand user changeable
Base mounting	M4 (#8-32) clearance hole on the base for either left or right handed mounting

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Locking Kinematic Mirror Mounts

KML131 1" (25 mm) Locking Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Superior locking mechanism
- Left or right-handed mounting
- Imperial and metric compatible
- Angular adjustment and translation
- Three $\frac{1}{4}$ -80 adjusters with removable knobs and hex drive

A quality one inch locking mirror mount for demanding applications. With clearance holes for imperial and metric mounting.

It features three $\frac{1}{4}$ -80 adjusters with removable knobs and hex drive allowing both angular adjustment and translation. A nylon tipped set-screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement, even with small adjustments.

Locking is performed by a superior mechanism that virtually eliminates movement during the locking process. Once positioned, the adjusters are held in place by a simple twist of the scalloped lock ring.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	5 arc seconds
Configuration	Right-hand or left-hand user changeable
Base mounting	M4 (#8-32) clearance hole on the base for either left or right handed mounting

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Locking Kinematic Mirror Mounts

KML231 2" (50 mm) Locking Kinematic Mirror Mount



- Angular range $\pm 4^\circ$
- Superior locking mechanism
- Left or right-handed mounting
- Imperial and metric compatible
- Angular adjustment and translation
- Three $\frac{1}{4}$ -80 adjusters with removable knobs and hex drive

A quality two inch locking mirror mount for demanding applications. With clearance holes for imperial and metric mounting.

It features three $\frac{1}{4}$ -80 adjusters with removable knobs and hex drive allowing both angular adjustment and translation. A nylon tipped set-screw positively locks the optic in place. Stainless steel adjusters act on hardened inserts to ensure smooth movement, even with small adjustments.

Locking is performed by a superior mechanism that virtually eliminates movement during the locking process. Once positioned, the adjusters are held in place by a simple twist of the scalloped lock ring.

Specifications

Mirror size	1" / 25 mm diameter
Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand or left-hand user changeable
Base mounting	Six M4 (#8-32) clearance holes on the base for either left or right handed mounting

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KPH121 Kinematic Platform Mount



- Angular range $\pm 4^\circ$
- Left or right-handed vertical mounting
- Imperial and metric compatible
- Tapped M4 hole pattern on front plate
- Horizontal post mounting with M4 (#8-32) clearance hole
- $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive



A quality platform mount for general laboratory applications. Clearance holes for imperial and metric mounting. Features two $\frac{1}{4}$ "-80 adjusters with hex drive and removable knobs. Stainless steel adjusters act on hardened inserts to ensure smooth movement even with small adjustments.

For prism mounting, clamp arm CAA101 is available separately.

Specifications

Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand or left-hand vertical mounting
Base mounting	M4 (#8-32) clearance holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

CAA101 General Purpose Clamp Arm



- M4 thread
- Rubber pad on arm
- Standard height 27 mm
- Extension rods available (35 mm)



The CAA101 is a general purpose clamp arm for use with prism tables and V-mounts. The arm has a rubber pad for the soft mounting of optics. An M4 thread is provided for mounting (and stacking) which can be extended with separately available additional pieces.

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KNA121 Plain Kinematic Mount



- Angular range $\pm 4^\circ$
- Left or right-handed mounting
- Imperial and metric compatible
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive
- Removable unanodised front plate for user modification
- Vertical or horizontal post mounting with M4 (#8-32)
- clearance holes

The KNA121 is a quality mount for general laboratory applications. The front plate can be removed for user modification or optics can be glued directly to it.

Clearance holes are provided for imperial and metric mounting in either vertical or horizontal planes. KNA121 features two stainless steel $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive that act on hardened inserts to ensure a smooth movement - even with small adjustments.

Optic is held in place by the CAA101 clamp arm supplied.

Specifications

Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand or left-hand mounting
Base mounting	M4 (#8-32) clearance holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KMO121 Kinematic Objective Mount



- Angular range $\pm 4^\circ$
- 0.8"-36 RMS thread
- Suitable for mounting microscope objectives
- Left or right-handed mounting
- Imperial and metric compatible
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

The KMO121 is a quality kinematic mount for mounting microscope objectives. It has clearance holes for imperial and metric mounting and features two stainless steel $\frac{1}{4}$ "-80 adjusters with hex drive and removable knobs that act on hardened inserts to ensure smooth movement - even with small adjustments.

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KTA121 Three Axis 1" Kinematic Mount



- 3-axis movement
- Angular range $\pm 4^\circ$ with 360° rotation
- Holds 1" (25.4 mm) optics up to 11.4 mm thick
- Threaded retaining ring
- Imperial and metric compatible
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

The KTA121 is a quality one inch kinematic mount with three axis adjustment including rotation. It has clearance holes for imperial or metric mounting and features two $\frac{1}{4}$ "-80 stainless steel adjusters which act on hardened inserts.

The rotation axis utilises a pair of precision thrust bearings to give smooth continuous 360° rotation that can be locked at the desired angle.

A single optic retaining ring is included with each mount and additional retaining rings ORR100 are available separately.

Specifications

Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Mirror size	1" / 25 mm diameter
Mirror thickness	11.4 mm
Rotation range	360°
Graduations	2°
Base mounting	M4 (#8-32) clearance hole

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KPV121 Kinematic Prism Table



- Angular range $\pm 4^\circ$
- Imperial and metric compatible
- Tapped M4 holes
- $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

The KPV121 is a quality platform mount for general laboratory applications. It has a counterbored clearance hole for imperial and metric mounting and features two $\frac{1}{4}$ "-80 stainless steel adjusters with removable knobs and hex drive that act on hardened inserts to ensure smooth movement - even with small adjustments.

The optic platform has tapped M4 mounting holes.

For prism mounting, clamp arm CAA101 is available separately.

Specifications

Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand
Base mounting	M4 (#8-32) counterbored mounting clearance holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KVM121 Kinematic V-Mount



- Angular range $\pm 4^\circ$
- Holds cylindrical objects up to 27 mm diameter
- Tapped M4 holes
- $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

The KVM121 is a quality V-mount for holding cylindrical objects. It has a counterbored clearance hole for imperial or metric mounting and features two $\frac{1}{4}$ "-80 stainless steel adjusters with removable knobs and hex drive that act on hardened inserts to ensure smooth movement - even with small adjustments.

The optic is held in place by the CAA101 clamp arm supplied.

Specifications

Optic diameter	27 mm maximum
Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand
Base mounting	M4 (#8-32) counterbored mounting clearance holes

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KCL121 Kinematic Cylindrical Lens Mount



- Rubber mounting faces
- Holds cylindrical lenses
- Angular range $\pm 4^\circ$
- Imperial and metric compatible
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

The KCL121 is a quality mount for holding cylindrical lenses. It has a counterbored clearance hole for imperial or metric mounting and features two $\frac{1}{4}$ "-80 stainless steel adjusters with removable knobs and hex drive that act on hardened inserts to ensure smooth movement - even with small adjustments.

The open design allows mounting of optics of any width, while the height of the optic held can be increased by extending the post with the supplied extension pieces.

Specifications

Optic height	30 mm (65 mm with included extension pieces)
Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand
Base mounting	M4 (#8-32) counterbored mounting clearance hole

For the latest price, contact us today.

Kinematic Mirror & Component Mounts: Kinematic Component Mounts

KMF121 Kinematic Mount Frame



- Angular range $\pm 4^\circ$
- Supplied without front plate
- Imperial and metric compatible
- User configurable left-hand or right-hand geometry
- Horizontal post mounting with M4 (#8-32) clearance hole
- Two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive

A quality mount for general laboratory applications. The user can mount their own front plate or parts. Clearance mounting holes for imperial and metric mounting. Features two $\frac{1}{4}$ "-80 adjusters with removable knobs and hex drive. Stainless steel adjusters act on a hardened inserts to ensure smooth movement even with small adjustments.

A front plate can be attached with four M2.5 screws.

Specifications

Angular range	$\pm 4^\circ$
Angular resolution	3 arc seconds
Configuration	Right-hand, left-hand or horizontal mounting
Base mounting	M4 (#8-32) clearance holes

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP012 12.5 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP025 25 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP050 50 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP075 75 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP100 100 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

POP150 150 mm long, 1" diameter Stainless Steel Pillar Post



- A 1" diameter stainless steel pillar posts for general mounting applications.
- M4 tapped at one end to accept optical mounts
- M6 tapped at other end to mount on optical table
- A through hole is provided to allow tightening when mounted directly to optical tables
- Can also be used as extensions for PPP pedestal posts
- POP pillar posts can be converted to pedestal style pillar posts with the addition of our BAS101 pedestal base adaptor

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pillar Posts

BAS101 Pedestal Base Adaptor



- Pedestal base adaptor to convert the POP range of 1" pillar posts to 1" pedestal pillar posts
- Can also be used to convert the POH post holders into pedestal style allowing the use of TCL clamping forks

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pedestal Posts

PPP025 25 mm long, 1" diameter Stainless Steel Pedestal Pillar Post



- A 1" diameter stainless steel pedestal post for direct mounting of optical components
- Tapped M4 at both ends
- Use with table clamping forks TCL011 or TCL012 to position post anywhere on an optical table
- Height can be extended with the POP range of posts
- A through hole is provided to allow tightening

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pedestal Posts

PPP050 50 mm long, 1" diameter Stainless Steel Pedestal Pillar Post



- A 1" diameter stainless steel pedestal post for direct mounting of optical components
- Tapped M4 at both ends
- Use with table clamping forks TCL011 or TCL012 to position post anywhere on an optical table
- Height can be extended with the POP range of posts
- A through hole is provided to allow tightening

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pedestal Posts

PPP075 75 mm long, 1" diameter Stainless Steel Pedestal Pillar Post



- A 1" diameter stainless steel pedestal post for direct mounting of optical components
- Tapped M4 at both ends
- Use with table clamping forks TCL011 or TCL012 to position post anywhere on an optical table
- Height can be extended with the POP range of posts
- A through hole is provided to allow tightening

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Pedestal Posts

PPP100 100 mm long, 1" diameter Stainless Steel Pedestal Pillar Post



- A 1" diameter stainless steel pedestal post for direct mounting of optical components
- Tapped M4 at both ends
- Use with table clamping forks TCL011 or TCL012 to position post anywhere on an optical table
- Height can be extended with the POP range of posts
- A through hole is provided to allow tightening

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: Post Spacers

ESP003 3 mm Spacer for 1" Posts



- A 1" diameter stainless steel post spacer for use with the PPP & POP range of posts
- Can be used singly or in combination to provide intermediate heights between the standard sizes
- The spacers have an M4 through hole

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: Post Spacers

ESP005 5 mm Spacer for 1" Posts



- A 1" diameter stainless steel post spacer for use with the PPP & POP range of posts
- Can be used singly or in combination to provide intermediate heights between the standard sizes
- The spacers have an M4 through hole

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: Post Spacers

ESP007 7 mm Spacer for 1" Posts



- A 1" diameter stainless steel post spacer for use with the PPP & POP range of posts
- Can be used singly or in combination to provide intermediate heights between the standard sizes
- The spacers have an M4 through hole

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: Post Spacers

ESP009 9 mm Spacer for 1" Posts



- A 1" diameter stainless steel post spacer for use with the PPP & POP range of posts
- Can be used singly or in combination to provide intermediate heights between the standard sizes
- The spacers have an M4 through hole

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Post Clamps

OPC410 1" Post Clamp for M4 Components



- Allows the side or angle mounting of M4 components on PPP & POP 1" diameter posts
- Clamps to a 1" post using a non-marring brass tipped set screw
- Two mounting M4 holes: one tapped and one counterbored
- Can be also be used in creating 3D structures

For the latest price, contact us today.

Component Mounting: 1" Pillars & Pedestal Posts: 1" Post Clamps

OPC610 1" Post Clamp for M6 Components



- Allows the side or angle mounting of M6 components on PPP & POP 1" diameter posts
- Clamps to a 1" post using a non-marring brass tipped set screw
- Two mounting M6 holes: one tapped and one counterbored
- Can be also be used in creating 3D structures

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS020 20 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS030 30 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS040 40 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS050 50 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS075 75 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS100 100 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS150 150 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: 1/2" Posts, Holders & Bases: 1/2" Posts

POS200 200 mm long, 1/2" diameter Stainless Steel Post



- Precision ground 1/2" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS250 250 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Posts

POS300 300 mm long, ½" diameter Stainless Steel Post



- Precision ground ½" diameter Stainless Steel
- Removable M4 stud screw in the top
- M6 tapped hole in the base
- Through hole provided to allow tightening

Accessories

Post Holders

Bases

Table Clamps & Table Clamping Forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH025 25 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH040 40 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH050 50 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH075 75 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH100 100 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Holders

POH150 150 mm long Holder for ½" diameter Posts



- Designed to hold our POS range or any other ½" diameter post
- Can be attached to any of our BAS range of bases
- Converts to pedestal style with a BAS101 adaptor
- Mounts directly on optical tables via the M6 tapped hole
- Internal relief cut design provides two line-contacts for stable positioning of the post
- Easy positioning is enabled by the spring-loaded
- thumbscrew

Accessories

Spring Loaded Thumbscrew THS001

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Clamps

EPC001 90° Post Clamp



- Mount two POS posts or any other ½" posts at 90° to one another
- Orthogonal adjustment allows positioning of the posts horizontally and vertically
- Internal relief cut design provides two line-contacts for stable positioning
- Brass thumbscrews with 4 mm hex sockets



For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Clamps

EPC002 End Post Clamp



- Horizontally mount a POS or any other ½" post atop another at a fixed height
- M4 tapped hole for attachment to the vertical post
- Internal relief cut design provides two line-contacts for stable positioning
- Brass thumbscrew with 4 mm hex socket

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Clamps

EPC003 Swivel Post Clamp



- Mount two POS or any other ½" posts at any angle to one another
- Friction bearing design allows full non-slip 360° movement that can then be locked into position
- Internal relief cut design provides two line-contacts for stable positioning
- Brass thumbscrews with 4 mm hex sockets

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Clamps

THS001 Spring Loaded Thumbscrew



The THS001 is designed for use with POH post holders and POS stainless steel posts. It is made of brass to prevent marring and has a spring loaded plunger to allow single handed adjustment of the post prior to final tightening.

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: ½" Post Clamps

THS002 Thumbscrew



The THS002 is a brass locking thumbscrew incorporating a 4 mm hex socket for use with the POH range of post holders and EPC post clamps. It can be used to firmly lock POS stainless steel posts in place without marring.

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BAS001 One Sided Base



- Imperial/Metric optical table compatible
- Accepts M6 or ¼"-20 cap screws



One sided base for mounting our POH range or other post holders. The base has a clearance hole, to allow post holders to be attached by M6 or ¼"-20 soc cap screws.

All bases are compatible with Imperial or Metric optical tables and are machined specifically for stable mounting.

Specifications

Dimensions 25 x 57.5 x 9.2 mm

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BAS002 Two Sided Base



- Imperial/Metric optical table compatible
- Accepts M6 socket cap screws



Two sided base for mounting the POH range of post holders. The base has an M6 clearance hole, to allow post holders to be attached by M6 soc cap screws.

All bases are compatible with Imperial or Metric optical tables and are machined specifically for stable mounting.

Specifications

Dimensions 25 x 76 x 9.2 mm

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BAS003 Twin slotted base



- Imperial/Metric optical table compatible
- Accepts M6 socket cap screws



Twin slotted base for mounting the POH range of post holders. The base has an M6 clearance hole, to allow post holders to be attached by M6 soc cap screws.

All bases are compatible with Imperial or Metric optical tables and are machined specifically for stable mounting.

Specifications

Dimensions 50 x 76 x 9.2 mm

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BAS101 Pedestal Base Adaptor



- Pedestal base adaptor to convert the POP range of 1" pillar posts to 1" pedestal pillar posts
- Can also be used to convert the POH post holders into pedestal style allowing the use of TCL clamping forks

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

KFM101 Flip Mount



- Tapped M4 for component mounting
- M6 counterbore mounting hole
- Compact design, only 12.7 mm thick
- Ball on hard pad indexing
- Repeatedly returns to the same position
- Designed to mount on the POP and PPP series of 1" posts



The KFM101 is a kinematic flip mount designed to move optics from the beam path and return them repeatedly to the same position.

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BKA301 Kinematic Magnetic Base Assembly



- Accurate & repeatable placement
- Array of M4 & M6 mounting holes
- Ergonomic design



The BK range of kinematic bases provide a removable and replaceable platform for mounting of optical components. Hardened steel balls locate in kinematic slots on the base providing accurate, repeatable placement. The plate is held in place by 4 high strength magnets.

The finger friendly design of the 75 x 75 x 25 mm (3 x 3 x 1 inch) base features rounded edges and cut-outs to allow the top to be easily removed and replaced without trapping fingers.

Mounting is by either a central M6 (¼-80) counterbored clearance hole or by parallel slots. The top plate has an array of both M6 and M4 holes for mounting the full range of posts, post holders and optical component mounts.

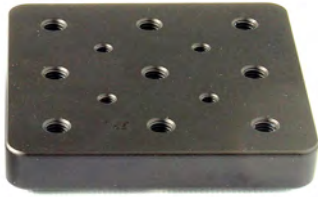
Accessories

Additional BKT301 top plates and BKB301 bases are available separately.

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BKT301 Kinematic Magnetic Base Top Plate



- Easy and repeatable swapping
- Array of M4 & M6 mounting holes



BKT301 is a 75 x 75 mm (3 x 3") top plate for use in conjunction with the BKB301 base plate. Together they make up the BKA301 kinematic base assembly.

This top plate is available separately to facilitate easy and repeatable swapping of two or more components in a beam path.

The top plate has an array of both M6 and M4 holes for mounting the full range of posts, post holders and optical component mounts.

Accessories

Additional BKB301 bases are available separately.

For the latest price, contact us today.

Component Mounting: ½" Posts, Holders & Bases: Bases

BKB301 Kinematic Magnetic Base Bottom Plate



- Easy and repeatable swapping
- Central M6 (¼"-80) clearance hole
- Parallel clearance slots



The BKB301 is a 75 x 75 mm (3 x 3") bottom plate for use in conjunction with the BKT301 top plate. Together they make up the BKA301 kinematic magnetic base assembly.

This bottom plate is available separately to facilitate easy and repeatable positioning of a mounted component in different positions in a single beam path or separate experimental set-up.

The base can be mounted by either a central M6 (¼"-80) clearance hole or parallel clearance slots.

Accessories

Additional BKT301 top plates are available separately.

For the latest price, contact us today.

Component Mounting: Table Clamps and Table Clamping Forks

TCL001 Table Clamp



- Imperial or Metric compatible
- Used when a base is not near suitable holes on an optical table
- table

Table clamps are used for holding the BAS range of bases when suitable holes are not available on the optical table. They are imperial or metric compatible.

Specifications

Size 18 x 19 x 50 mm

Accessories

1" Pillar Posts
1" Pedestal Posts
Bases
Posts
Post Holders

For the latest price, contact us today.

Component Mounting: Table Clamps and Table Clamping Forks

TCL002 Compact, Variable Height Table Clamp



- Imperial or Metric compatible
- Used when a base is not near suitable holes on an optical table
- table



Table clamps are used for holding the BAS range of bases when suitable holes are not available on the optical table.

The TCL002 has an M6 screw thread and a clearance slot to accept either an M6 or ¼"-20 bolt, so they are imperial or metric compatible.

Specifications

Size 12.6 x 10 x 50 mm

Accessories

1" Pillar Posts
1" Pedestal Posts
Bases
Posts
Post Holders

For the latest price, contact us today.

Component Mounting: Table Clamps and Table Clamping Forks

TCL011 Short Fork Table Clamp



- For PPP pedestal pillar posts or adapted POH post holders
- Used when a base is not near suitable holes on an optical table
- table

Table clamps are designed to secure accessories to the optical table when suitable holes are not available.

Accessories

1" Pillar Posts

1" Pedestal Posts

Bases

Posts

Post Holders

For the latest price, contact us today.

Component Mounting: Table Clamps and Table Clamping Forks

TCL012 Long Fork Table Clamp



- For PPP pedestal pillar posts or adapted POH post holders
- Used when a base is not near suitable holes on an optical table
- table

Table clamps are designed to secure accessories to the optical table when suitable holes are not available. These clamping forks are for holding PPP pedestal pillar posts or POH post holders that have been fitted with a BAS101 pedestal base adaptor. Imperial or metric compatible.

Accessories

1" Pillar Posts
1" Pedestal Posts
Bases
Posts
Post Holders

For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

OLM050 1/2" (12.7 mm) Lens Mount

- Holds 1/2" (12.7 mm) diameter optics up to 5 mm thick
- M4 post mounting hole



The lens is held in place by a threaded retaining ring. One retaining ring is included with each mount and additional retaining rings can be ordered separately as part code ORR050. The mount has a flat mating surface with M4 threaded mounting hole for post mounting.

Specifications

Beam height	15 mm
Clear aperture	11.5 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

OLM100 1" (25.4 mm) Lens Mount



- Holds 1" (25.4 mm) diameter optics up to .75 mm thick
- M4 post mounting hole



The lens is held in place by a threaded retaining ring. One retaining ring is included with each mount and additional retaining rings can be ordered separately as part code ORR100. The mount has a flat mating surface with M4 threaded mounting hole for post mounting.

Specifications

Beam height	22 mm
Clear aperture	24 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

OLM200 2" (50.8 mm) Lens Mount



- Holds 2" (50.8 mm) diameter optics up to 7.5 mm thick
- M4 post mounting hole

The lens is held in place by a threaded retaining ring. One retaining ring is included with each mount and additional retaining rings can be ordered separately as part code ORR200. The mount has a flat mating surface with M4 threaded mounting hole for post mounting.

Specifications

Beam height	35 mm
Clear aperture	48 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

OLM300 3" (76.2 mm) Lens Mount



- Holds ½" (76.2 mm) diameter optics up to 9 mm thick
- M4 post mounting hole

The lens is held in place by a threaded retaining ring. One retaining ring is included with each mount and additional retaining rings can be ordered separately as part code ORR300. The mount has a flat mating surface with M4 threaded mounting hole for post mounting.

Specifications

Beam height	50 mm
Clear aperture	72 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

ORR050 ½" Lens Retaining Ring



- Threaded retaining ring
- Fits OLM050 ½" lens mount



For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

ORR100 1" Lens Retaining Ring



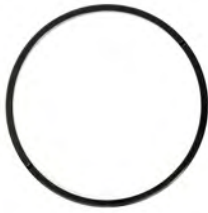
- Threaded retaining ring
- Fits OLM100 1" lens mount



For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

ORR200 2" Lens Retaining Ring



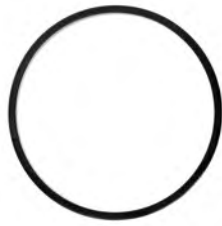
- Threaded retaining ring
- Fits OLM200 2" lens mount



For the latest price, contact us today.

Component Mounting: Fixed Holders: Lens Mounts

ORR300 3" Lens Retaining Ring



- Threaded retaining ring
- Fits OLM300 3" lens mount



For the latest price, contact us today.

Component Mounting: Fixed Holders: Rotation Mount

ROT011 1" Rotation Mount



- Post mountable rotation mount
- Lockable 360° continuous rotation
- Holds 1" (25.4 mm) diameter optics up to 11.4 mm thick

The ROT011 rotation mount provides a simple method of post mounting 1" (25.4 mm) diameter linear polarisers and waveplates. The mount utilises a pair of precision thrust bearings to give smooth continuous 360° rotation that can be locked at the desired angle.

The optic is held in place by a threaded retaining ring and one is included with each mount. Additional ORR100 retaining rings are available separately.

The mount has a flat mating surface with M4 threaded hole for post mounting.

Specifications

Optic Size	1" (25 mm) diameter
Optic thickness	11.4 mm
Rotation range	360°
Graduations	2°
Sensitivity	1°
Beam height	27.8 mm
Clear aperture	23 mm
Mount height	56 mm
Mount thickness	15 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Iris Diaphragms

MID012 12 mm Iris Diaphragm



- Laser engraved scale
- Post mountable iris diaphragm
- Continuously variable aperture

The MID012 post mountable iris diaphragm provides a continuously variable aperture up to 12 mm. The aperture is lever operated with the nominal aperture size being indicated by a laser engraved scale. It is supplied with a fixed M4 stud for mounting to the POP, POS or PPP ranges of posts.

Specifications

Maximum aperture	12 mm (½")
Minimum aperture	1 mm
Optical axis height	14.5 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Iris Diaphragms

MID025 25 mm Iris Diaphragm



- Laser engraved scale
- Post mountable iris diaphragm
- Continuously variable aperture

The MID025 post mountable iris diaphragm provides a continuously variable aperture up to 25 mm. The aperture is lever operated with the nominal aperture size being indicated by a laser engraved scale. It is supplied with a fixed M4 stud for mounting to the POP, POS or PPP ranges of posts.

Specifications

Maximum aperture	25 mm (1")
Minimum aperture	1 mm
Optical axis height	23 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Iris Diaphragms

MID036 36 mm Iris Diaphragm



- Laser engraved scale
- Post mountable iris diaphragm
- Continuously variable aperture

The MID036 post mountable iris diaphragm provides a continuously variable aperture up to 36 mm. The aperture is lever operated with the nominal aperture size being indicated by a laser engraved scale. It is supplied with a fixed M4 stud for mounting to the POP, POS or PPP ranges of posts.

Specifications

Maximum aperture	36 mm (1½")
Minimum aperture	2 mm
Optical axis height	29.5 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Iris Diaphragms

MID050 50 mm Iris Diaphragm



- Laser engraved scale
- Post mountable iris diaphragm
- Continuously variable aperture

The MID050 post mountable iris diaphragm provides a continuously variable aperture up to 50 mm. The aperture is lever operated with the nominal aperture size being indicated by a laser engraved scale. It is supplied with a fixed M4 stud for mounting to the POP, POS or PPP ranges of posts.

Specifications

Maximum aperture	50 mm (2")
Minimum aperture	3.5 mm
Optical axis height	39.5 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Fixed Mirror Holders

FMH050 1/2" (12.7 mm) Fixed Mirror Holder



- Imperial and metric compatible
- Post mountable by M4 (#8-32) clearance hole

The FMH050 fixed mirror mount is designed for holding 0.5" (12.7 mm) diameter optics. The optic is held in place with a nylon tipped grubscrew and the mount has a flat mating surface with M4 threaded hole for post mounting.

Specifications

Beam height	15 mm
Clear aperture	12 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Fixed Mirror Holders

FMH100 1" (25.4 mm) Fixed Mirror Holder



- Imperial and metric compatible
- Post mountable by M4 (#8-32) clearance hole

The FMH100 fixed mirror mount is designed for holding 1" (25.4 mm) diameter optics. The optic is held in place with a nylon tipped grubscrew and the mount has a flat mating surface with M4 threaded hole for post mounting.

Specifications

Beam height	22 mm
Clear aperture	24 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Fixed Mirror Holders

FMH200 2" (50.8 mm) Fixed Mirror Holder



- Imperial and metric compatible
- Post mountable by M4 (#8-32) clearance hole

The FMH200 fixed mirror mount is designed for holding 2" (50.8 mm) diameter optics. The optic is held in place with a nylon tipped grubscrew and the mount has a flat mating surface with M4 threaded hole for post mounting.

Specifications

Beam height	35 mm
Clear aperture	48 mm

For the latest price, contact us today.

Component Mounting: Fixed Holders: Filter Holder

EFH001 Stackable Filter Holder



- Holds 2" (50 mm) square filters up to 4 mm thick
- Imperial and metric compatible
- Post mountable by M4 (#8-32) clearance hole
- Stackable



The EFH001 post mountable filter holder is ideal for holding square filters. The optic is held in place by two spring clips. The holders can be stacked together using the two through holes on the front (suitable for M4).

For the latest price, contact us today.

Component Mounting: Fixed Holders: Vee Mount

VBA101 Post Mounted Vee Mount



- Holds cylindrical items up to 27 mm diameter
- M4 threaded hole for post mounting
- Rubber pad on arm
- Standard height 27 mm
- Extension rods available



The VBA101 V-mount provides a simple method for post mounting cylindrical objects up to 27 mm diameter. The optic being held in place with the supplied CAA101 clamp arm.

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