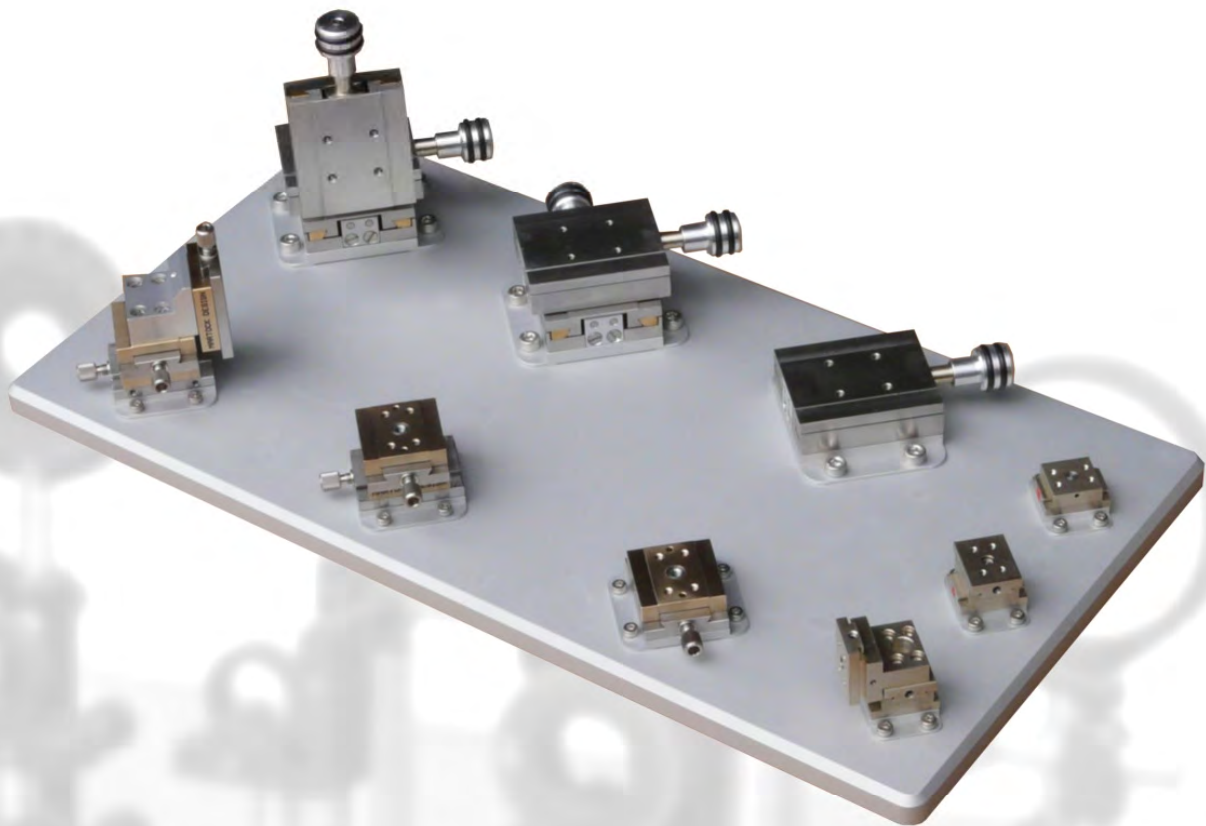


Opto-Mechanics 2011

Manual Positioners



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.

Elliot Scientific Limited

3 Allied Business Centre, Coldharbour Lane, Harpenden, AL5 4UT

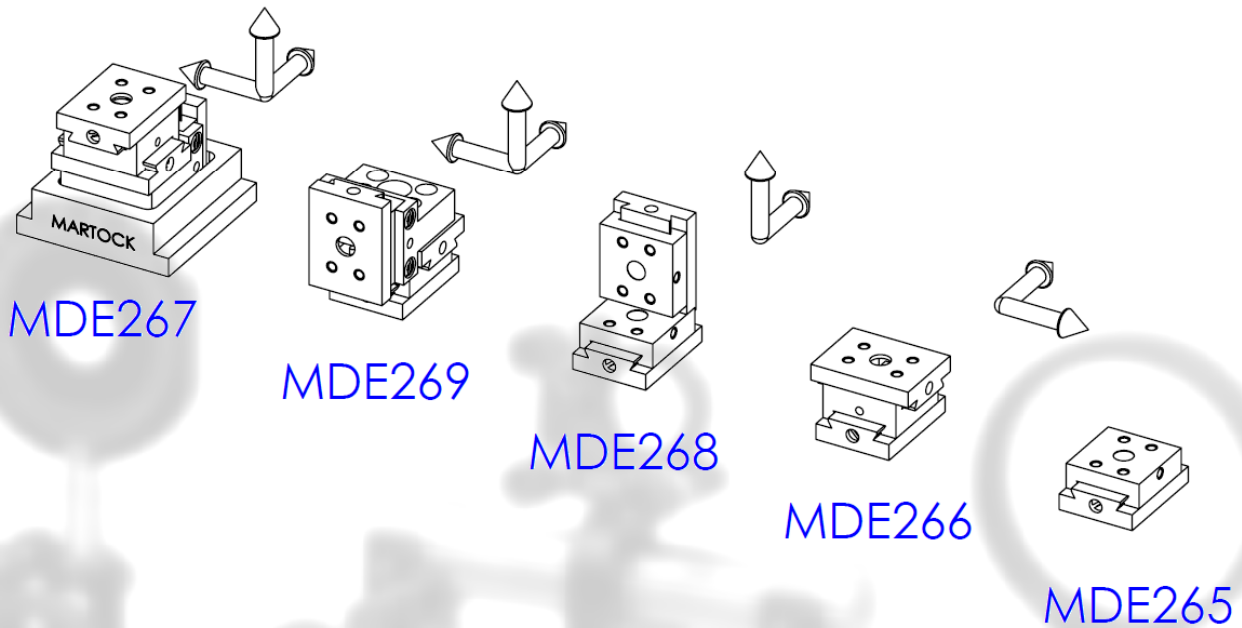
Tel. +44 (0)1582 766300 Fax. +44 (0)1582 766340 Eml. sales@elliotscientific.com

Registered in England No. 2460146

VAT Registration No. GB 540 1277 78

WEEE Registration No. WEE/DF0052TQ

Ultra Small Linear Stages



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)

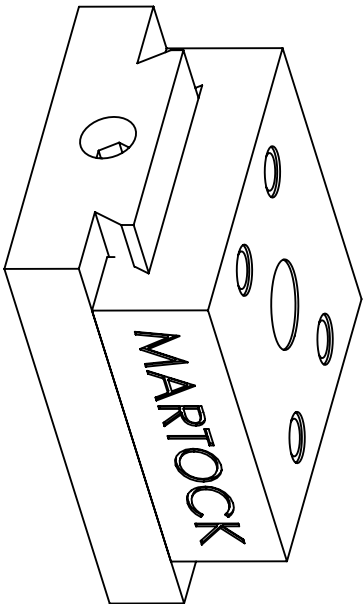
Fibre holders available: MDE719 and MDE730

Non-magnetic versions available

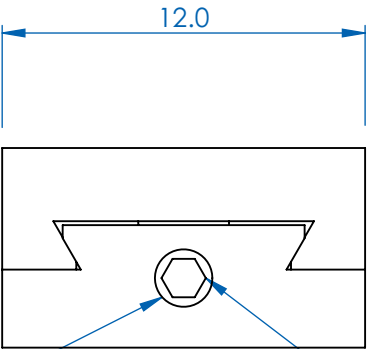
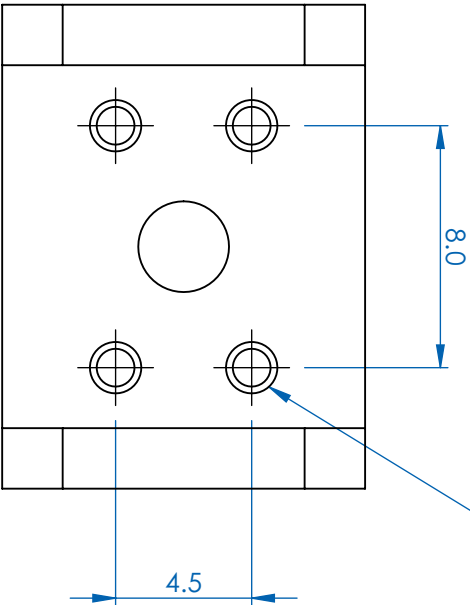
Vacuum compatible versions available

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.

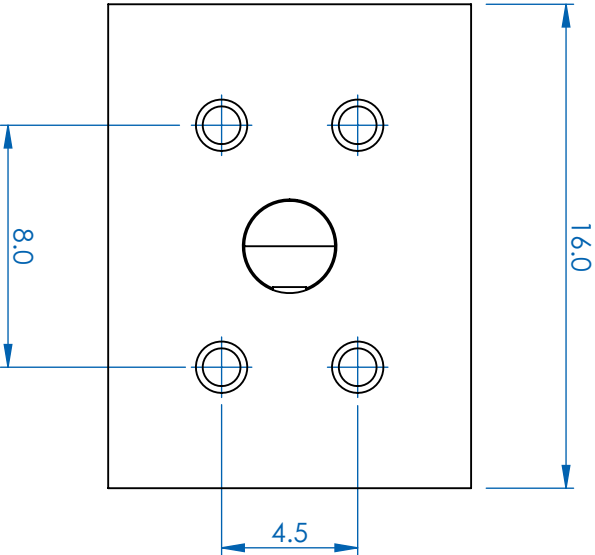
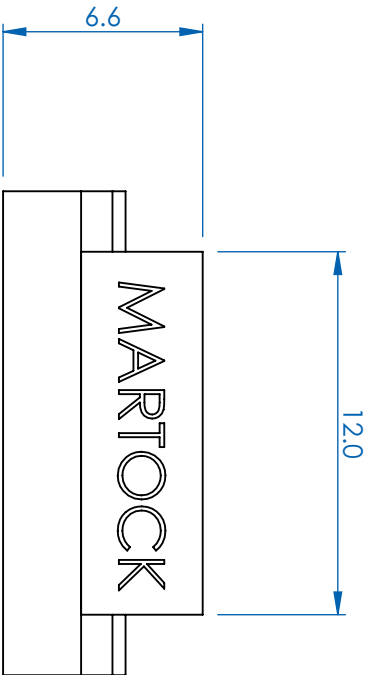


4 HOLES
M1.6 x 2 DEEP
TOP AND BOTTOM



ADJUSTER

1.27 HEX SOCKET



TRAVEL $\pm 1.5\text{mm}$

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

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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					

DO NOT SCALE DRAWING					
TITLE					
MDE265 SINGLE AXIS STAGE					
SIZE					
A4					
DWG. NO.					
MDE265					
SCALE: 1		THIRD ANGLE PROJECTION		SHEET 1 OF 1	

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

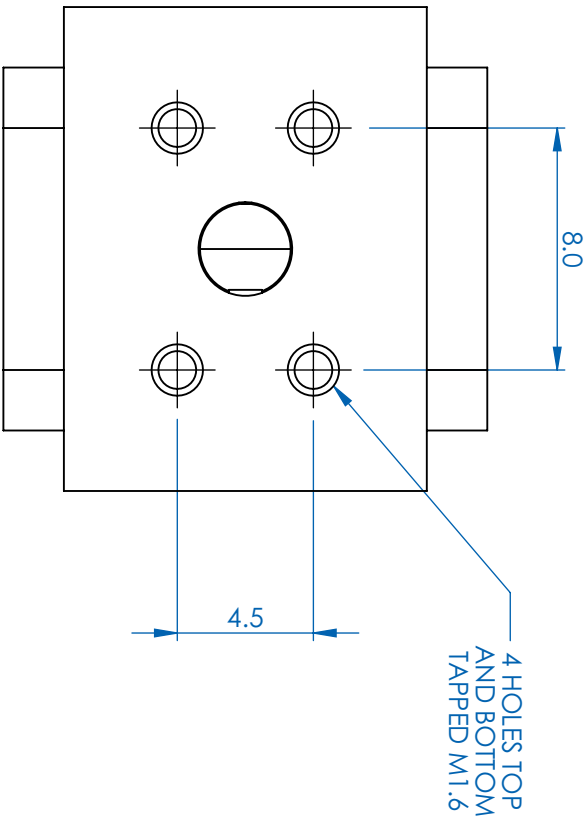
Specifications

Travel	3 mm
Sensitivity	< 0.5 μm
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

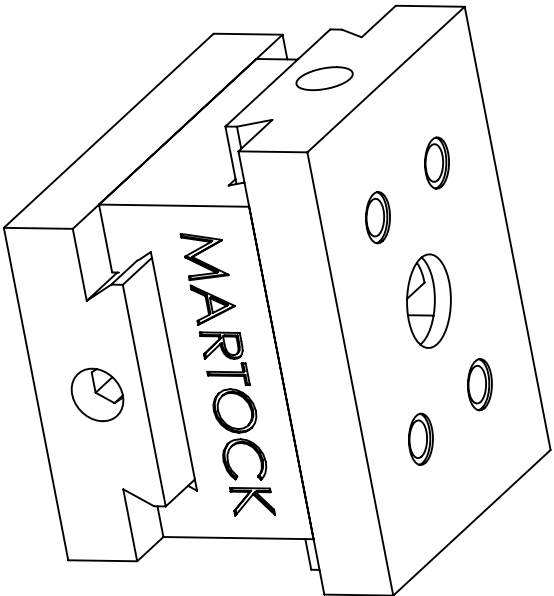
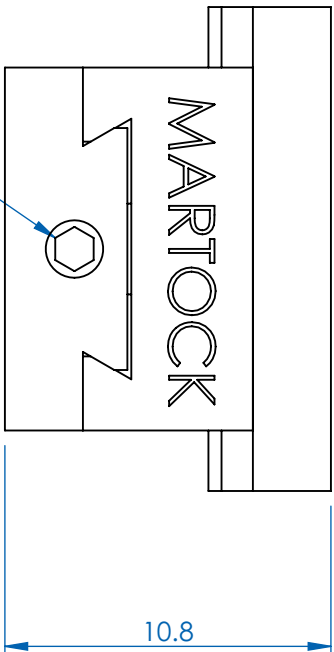
Notes

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.

REVISIONS			DATE	APPROVED
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BOTH AXES ±3mm OF TRAVEL



GENERAL VIEW
SCALE: 4:1

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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
GW	GW	11/05/2010
CHECKED	NAME	DATE
---	---	---
MATERIAL CU ALLOY, STAINLESS STEEL		
FINISH ---		
TITLE 2 AXIS DOVETAIL SLIDE		
SIZE A4		
DWG. NO. MDE266		
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

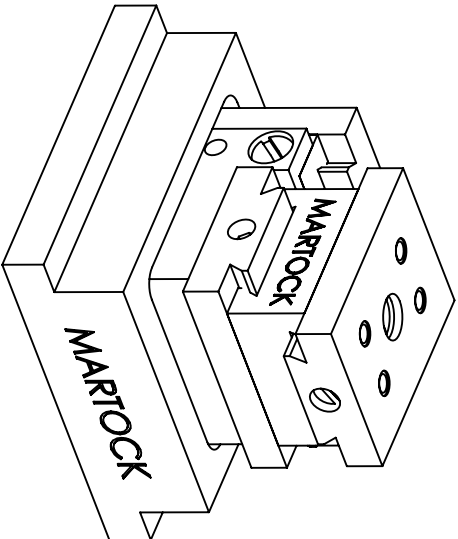
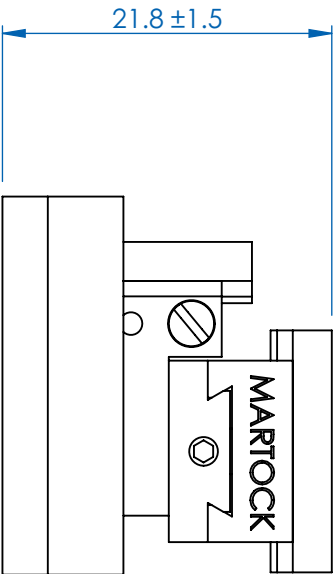
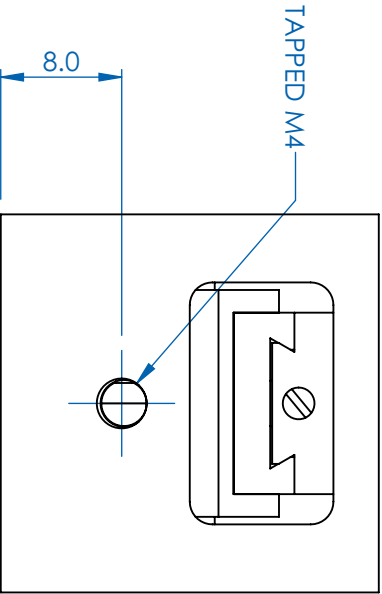
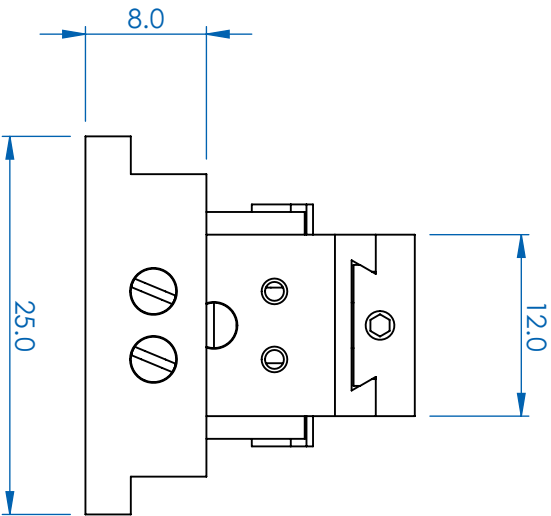
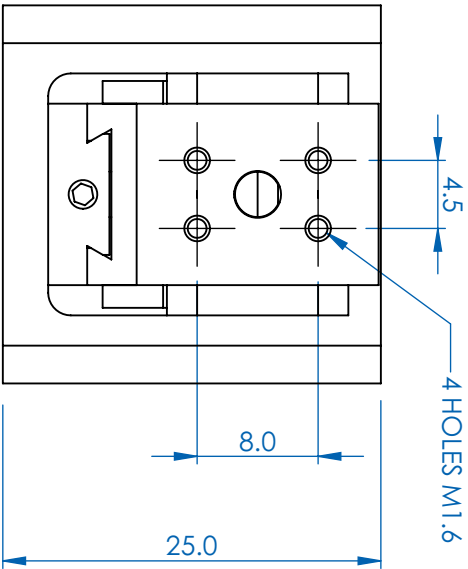
Travel	3 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch with 1.27 mm hex socket
Ball hex driver supplied	
Top plate	12 x 12 mm
Base	M4 tapped

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.



REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

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AUTHOR		NAME		DATE			
CHECKED		GW		13/05/2010			
MATERIAL				CU ALLOY, AL ALLOY			
				STAINLESS STEEL			
FINISH				---			
				TITLE			
				MDE267 3-Axis Micropositioner			
SIZE		DWG. NO.					
A4		MDE267					
SCALE: 2:1		THIRD ANGLE PROJECTION		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

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

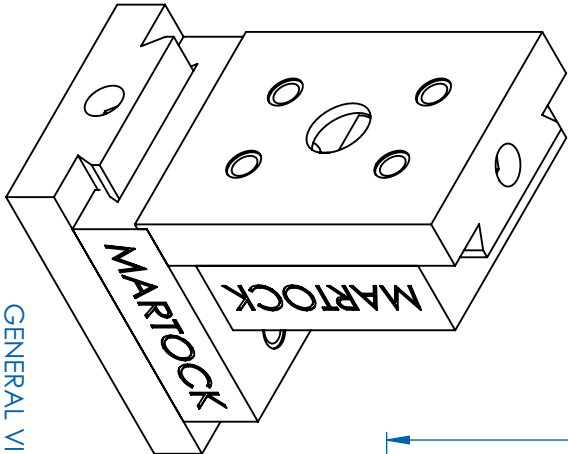
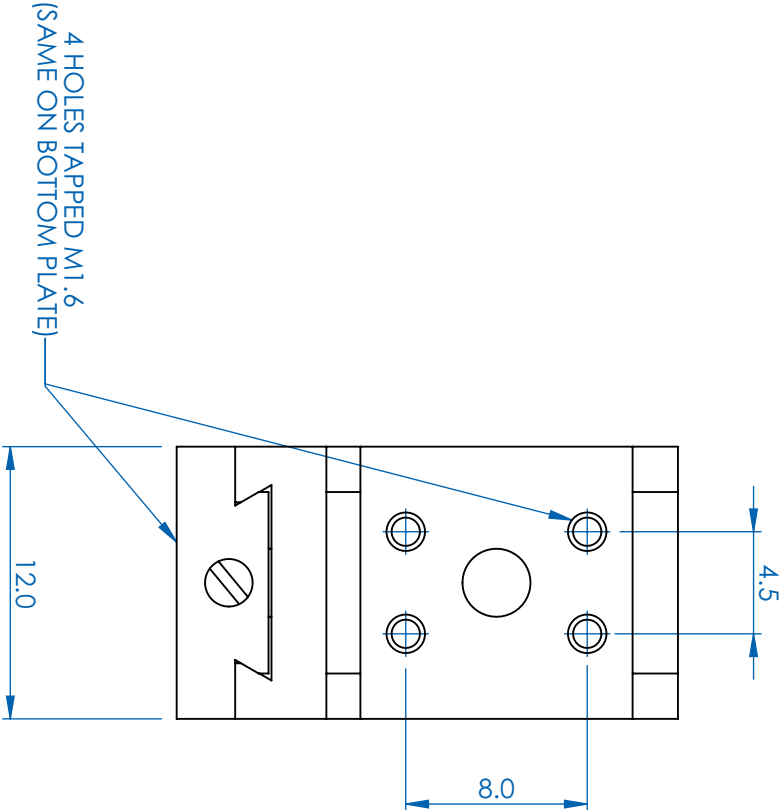
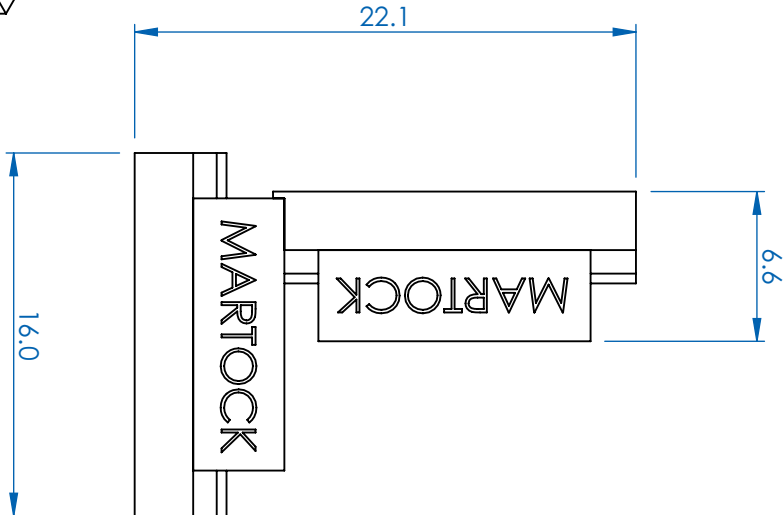
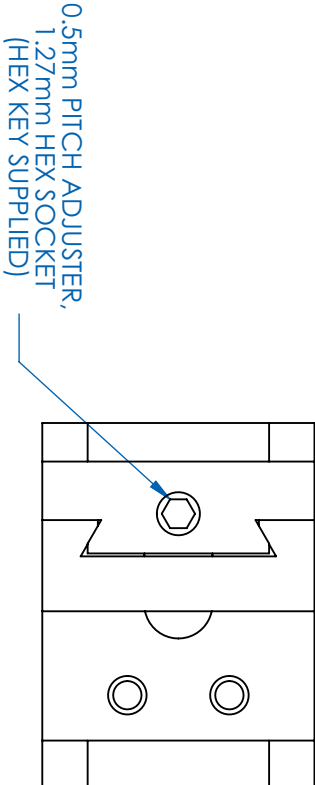
Non-magnetic versions available

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.

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GENERAL VIEW
SCALE: 3:1

BOTH AXES $\pm 3\text{mm}$ OF TRAVEL

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MATERIAL CU ALLOY, STAINLESS STEEL			FINISH ---		
AUTHOR CHECKED			NAME GW		
DATE 13/05/2010			---		

Elliott Scientific

TITLE
XZ MICROPOSITIONER

SIZE
A4

DWG. NO.
MDE268

DO NOT SCALE DRAWING

SCALE: 3:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

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

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.

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

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

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

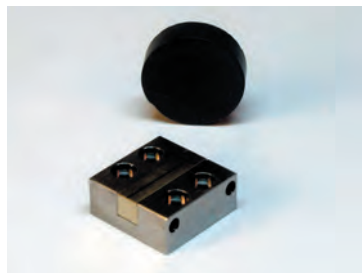
Ferrule Size	Up to 4.5 mm diameter. Customer specified
Rotation	360° coarse rotation $\pm 5^\circ$ fine adjustment
Resolution	30 arc secs
	Mount Fits MDE265 Series Positioners
	Supplied with mounting screws

Options

MDE265 series micropositioners
Clamp set (Model MDE154)

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

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 utilizing 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

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE857 MDE260 & MDE265 Post Adapter

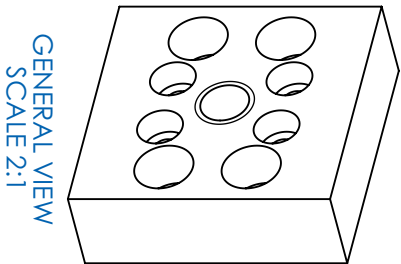


- Mount slide horizontal on post
- Mount MDE260 and MDE265 series to any M4 stud post
- Post mount MDE260 and MDE265 series onto FEMTO-BENCH™
- Use with Elliot/Martock MDE260 and MDE265 series Ultra Small Micropositioners

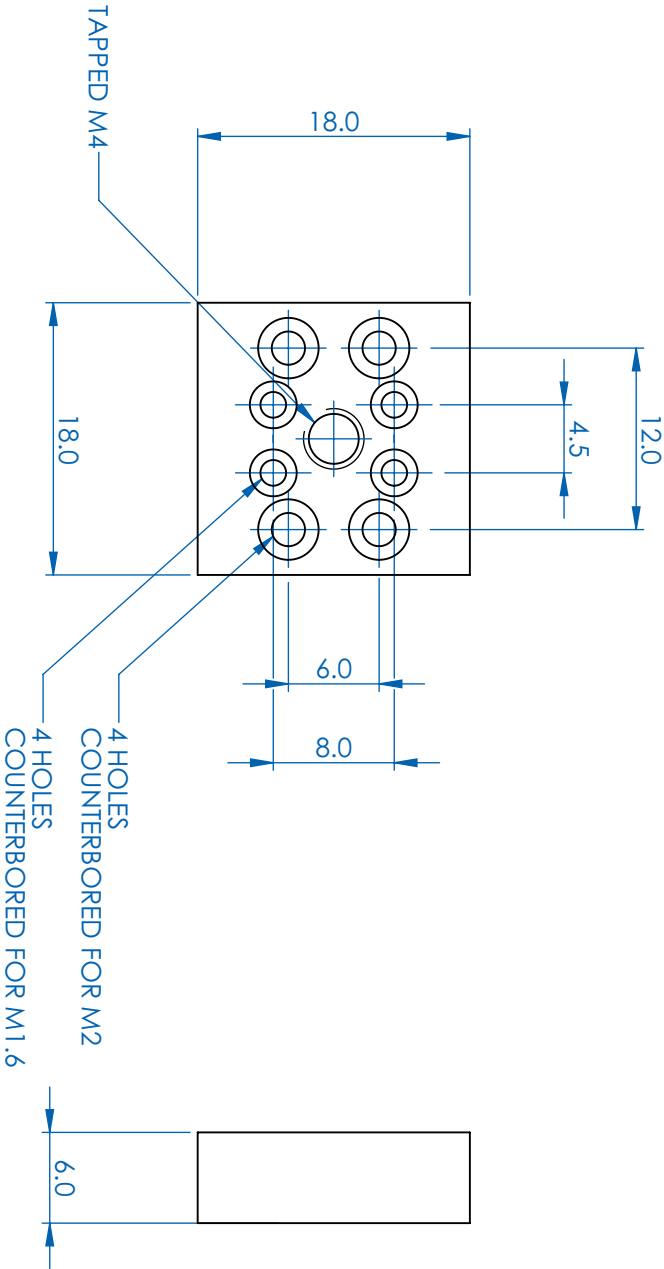


MDE857 adapter fits MDE260 and MDE265 series slides.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE 2:1



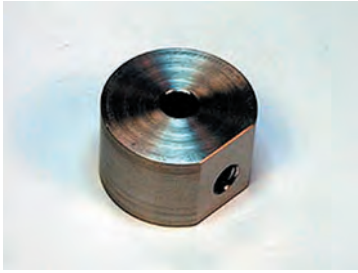
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SURFACE FINISH:
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AND CORNERS TO BE
REMOVED

AUTHOR	NAME	DATE
CHECKED	GW	23/03/2010
	-	-
MATERIAL ALUMINIUM ALLOY		
FINISH ANODISED CLEAR		
TITLE HORIZONTAL POST MOUNT		
SIZE A4	DWG. NO. MDE857	SCALE: 2:1
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION
		SHEET 1 OF 1

Manual Positioners: Ultra Small Linear Stages: 3 mm Travel

MDE858 MDE260 & MDE265 Post Adapter for MDE857

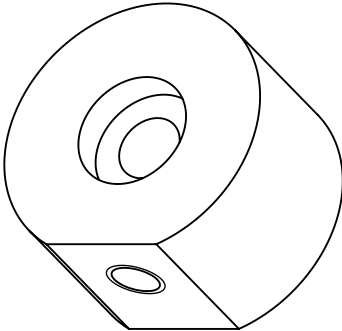


- Requires MDE857 adaptor
- Mount MDE260/MDE265 series micropositioners vertically or rotationally on an M4 stud

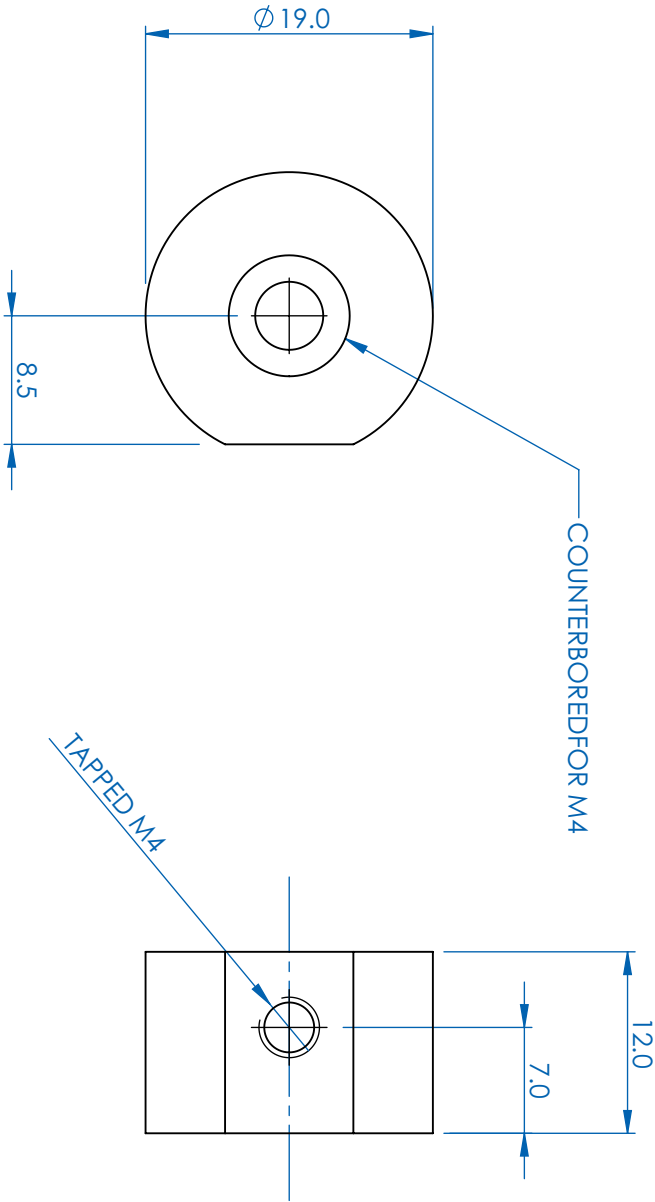


The MDE858 adapter is used in conjunction with an MDE857 to allow vertical or rotational mounting of MDE260 and MDE265 series Ultra Small Micropositioners.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE 2:1



COUNTERBORED FOR M4

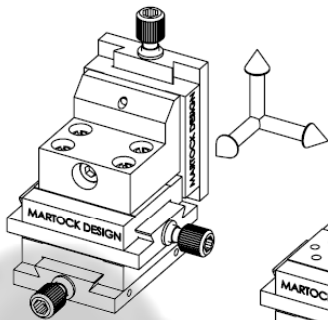
TAPPED M4

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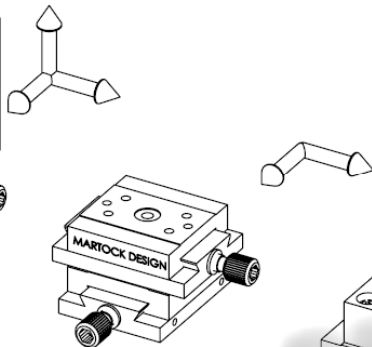
DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: \pm
SURFACE FINISH:
ALL BURRS, SHARP EDGES
AND CORNERS TO BE
REMOVED

NAME		DATE	
AUTHOR		23/03/2010	
CHECKED		-	
MATERIAL		ALUMINIUM ALLOY	
FINISH		ANODISED CLEAR	
DO NOT SCALE DRAWING		TITLE	
SIZE		ADAPTER MOUNT	
A4		DWG. NO.	
SCALE: 2:1		MDE858	
THIRD ANGLE PROJECTION		SHEET 1 OF 1	

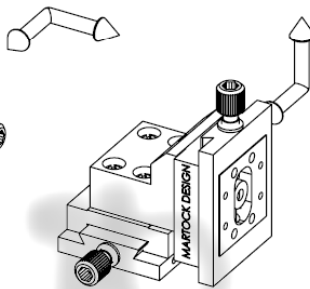
Very Small Linear Stages



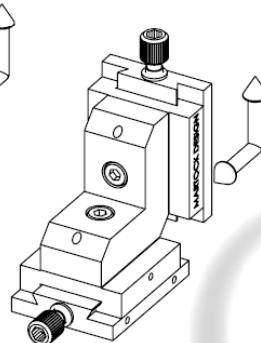
MDE263



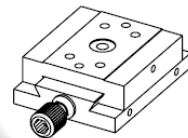
MDE262



MDE261-YZ



MDE261-XZ



MDE261

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

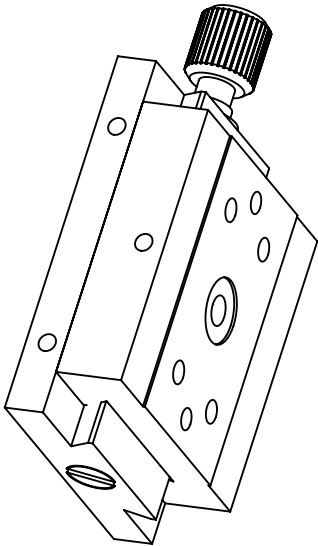
Rotation option: MDE283

Table-mounting option: MDE293

Vacuum version

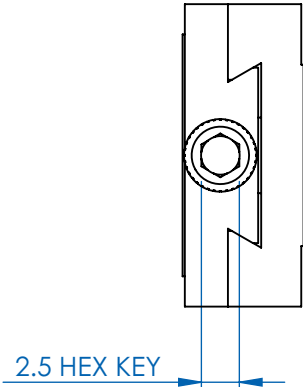
Notes

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.

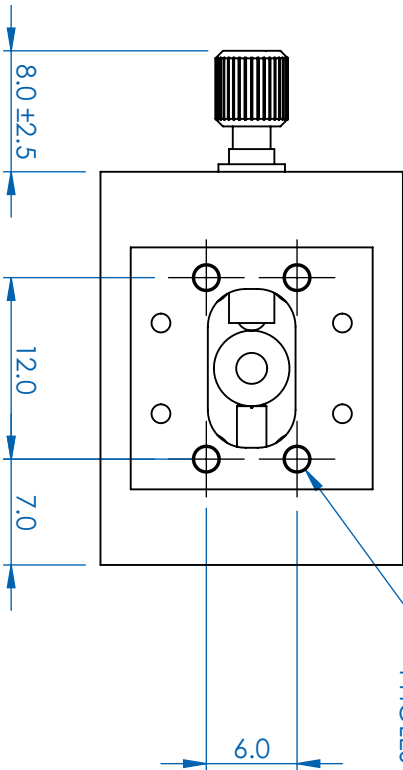
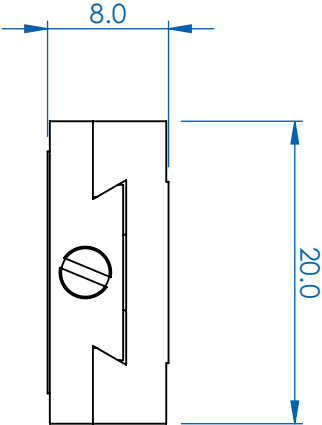
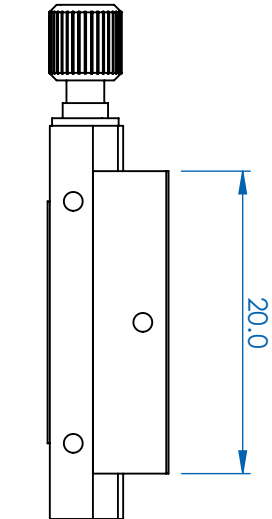
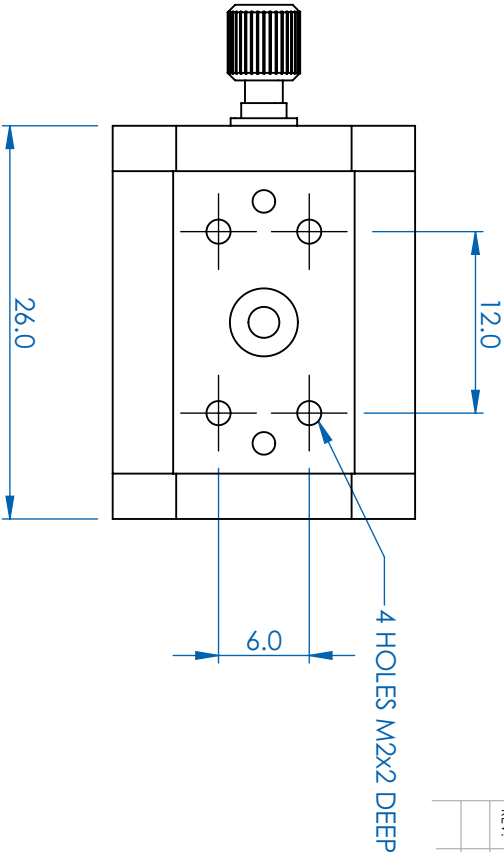


GENERAL VIEW
SCALE: 2:1

TRAVEL $\pm 2.5\text{mm}$



2.5 HEX KEY



4 HOLES M2X2 DEEP

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

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MATERIAL STAINLESS STEEL, ALUM. ALLOY		TITLE MDE261 LINEAR SLIDE	
FINISH ---		SIZE A4	
DO NOT SCALE DRAWING		DWG. NO. MDE261	

NAME	DATE
AUTHOR GW	11/05/2010
CHECKED ---	---



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

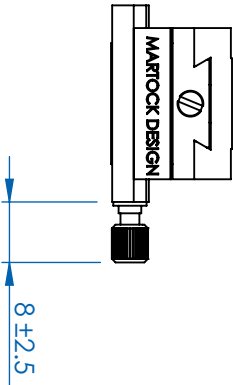
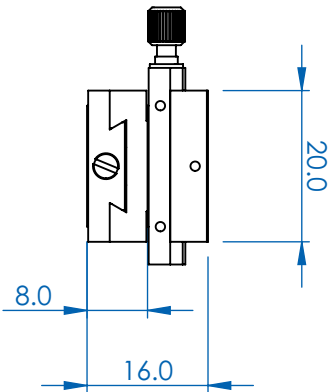
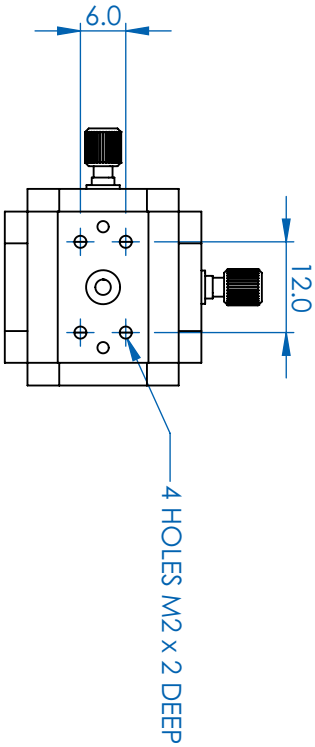
Variants

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

Notes

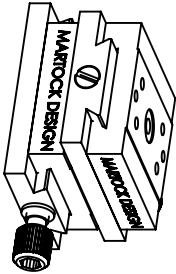
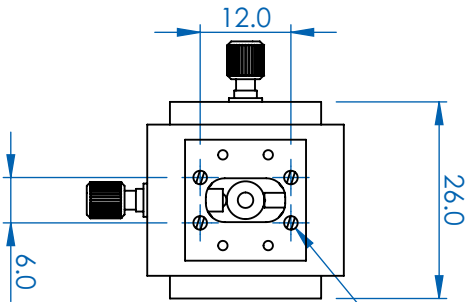
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported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

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



EACH AXIS HAS ±2.5mm OF TRAVEL

4 HOLES M2 X 2 DEEP



GENERAL VIEW
SCALE: 1:1

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MATERIAL STAINLESS STEEL, ALUM. ALLOY			FINISH ---		
DO NOT SCALE DRAWING			TITLE 2 AXIS DOVETAIL SLIDE		
SIZE A4			DWG. NO. MDE262		
SCALE: 1:1			THIRD ANGLE PROJECTION		
SHEET 1 OF 1					

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 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

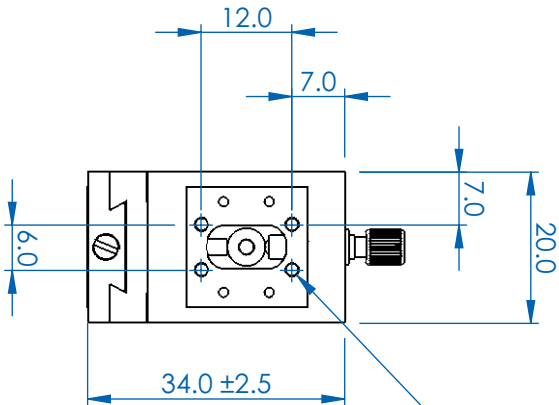
Variants

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

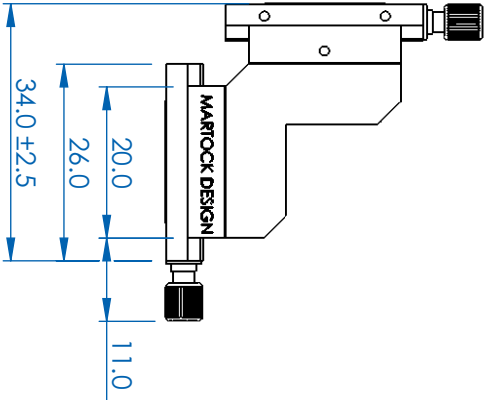
Notes

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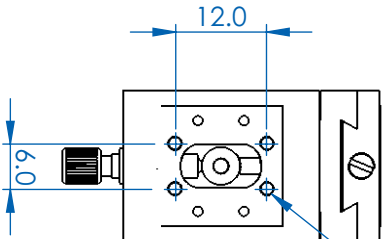
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



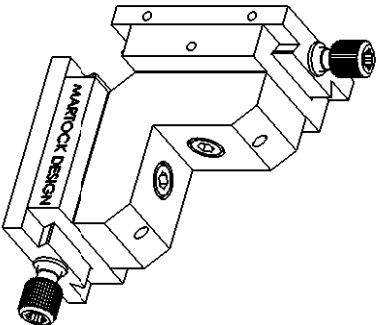
4 HOLES TAPPED M2 X 2 DEEP



EACH AXIS HAS ±2.5mm OF TRAVEL



4 HOLES TAPPED M2 X 2 DEEP



GENERAL VIEW
SCALE: 1:1

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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, ALUM. ALLOY					
FINISH					

DO NOT SCALE DRAWING			TITLE		
XZ DOVETAIL SLIDE					
SIZE		DWG. NO.			
A4		MDE261-XZ			
SCALE: 1:1		THIRD ANGLE PROJECTION			
		SHEET 1 OF 1			

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 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

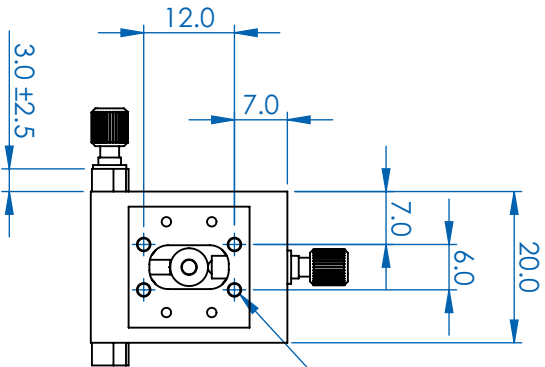
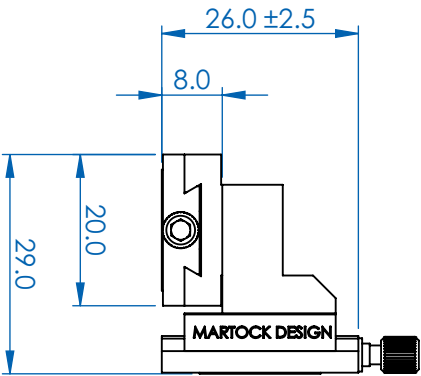
Variants

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

Notes

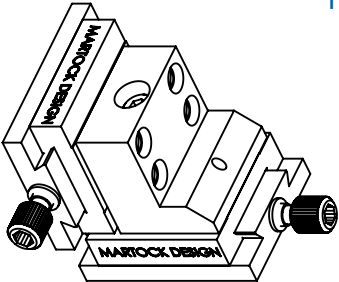
Surface mating with these micropositioners must be truly flat. Unflat surfaces or overtightened screws will cause the slide motion to be jerky and stiff due to distortion. Dovetail slides, unlike miniature ball slides, are unlikely to be permanently damaged by temporary distortion, as the load is supported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

REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			

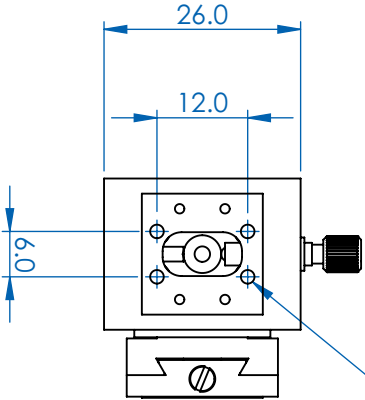


EACH AXIS HAS ±2.5mm OF TRAVEL

4 HOLES TAPPED M2 X 2 DEEP



GENERAL VIEW
SCALE 1:1



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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		GW		12/05/2010		STAINLESS STEEL, ALUM. ALLOY	
FINISH		---		---		TITLE	
DO NOT SCALE DRAWING		SIZE		DWG. NO.		Y-Z SLIDE ASSEMBLY	
SCALE: 1:1		A4		MD261-YZ		THIRD ANGLE PROJECTION	
SHEET 1 OF 1							

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

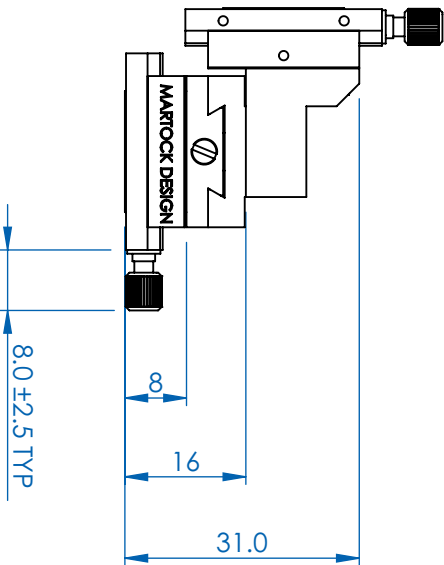
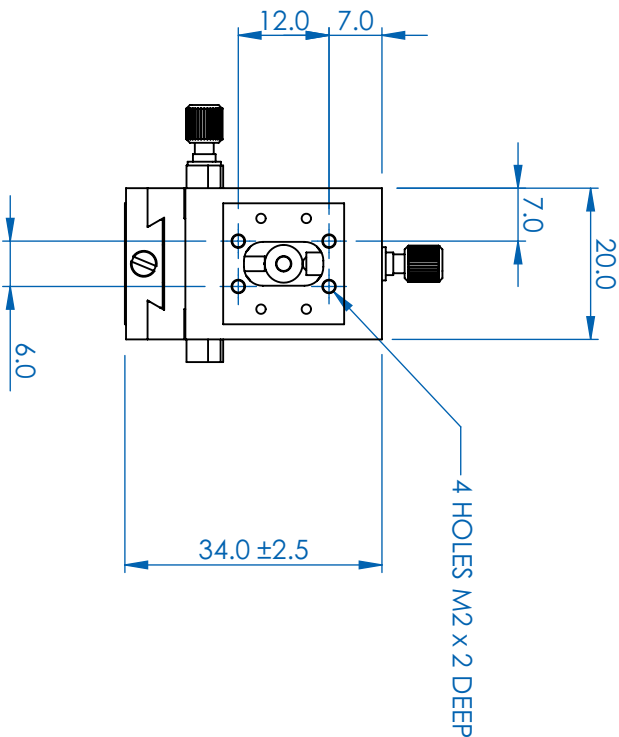
Options

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

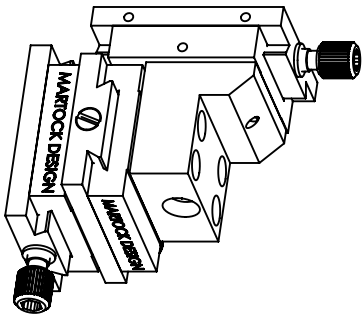
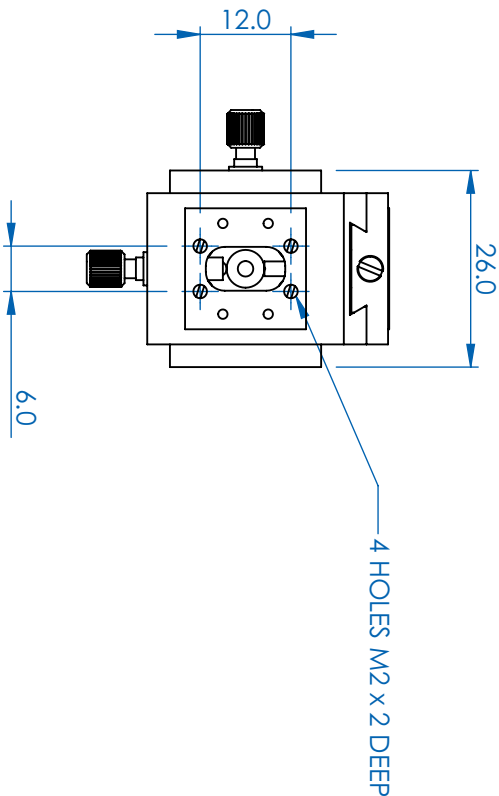
Notes

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.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



EACH AXIS HAS ±2.5mm OF TRAVEL



GENERAL VIEW
SCALE: 1:1

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				MATERIAL STAINLESS STEEL, ALUM. ALLOY			
				FINISH ---			
DO NOT SCALE DRAWING				TITLE			
				XYZ DOVETAIL SLIDE			
				SIZE			
				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

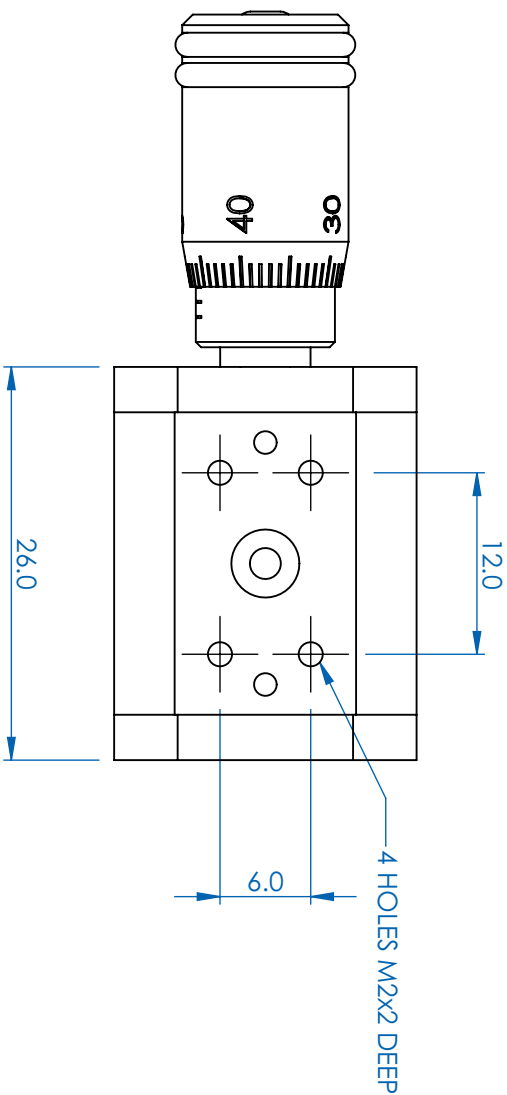
Options

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

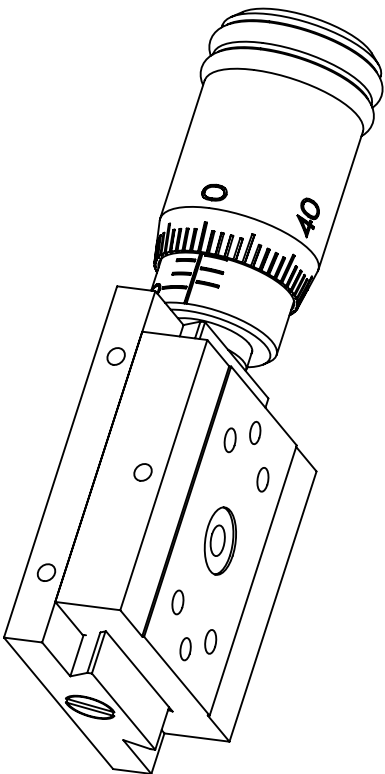
Notes

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.

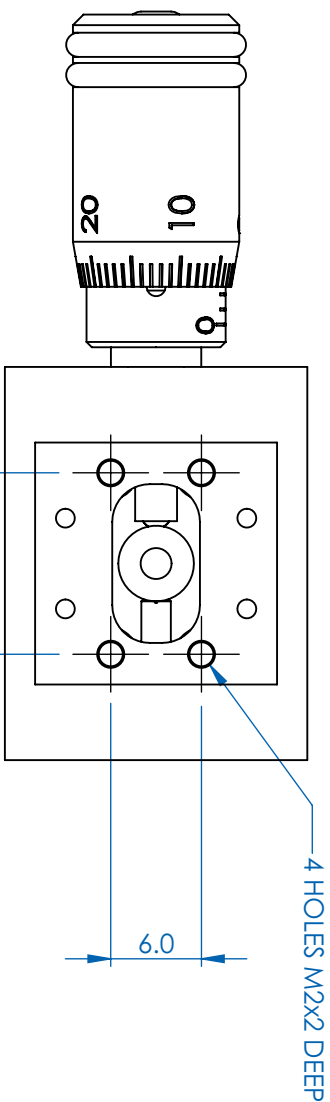
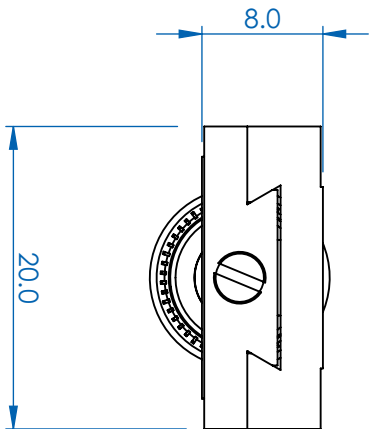
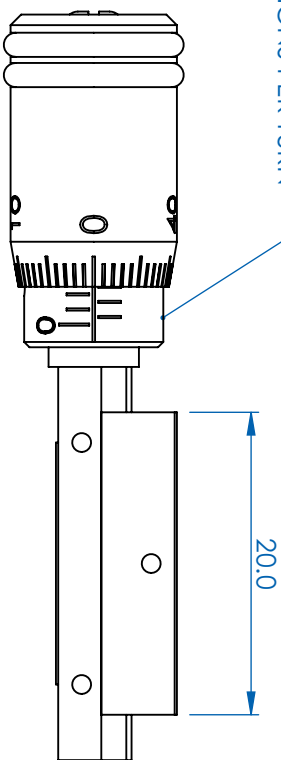
REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			



GENERAL VIEW
SCALE: 2:1



0.5mm PITCH MICROMETER
50 DIVISIONS PER TURN




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

NAME		DATE	
AUTHOR	GW	26/05/2010	
CHECKED	-	-	
MATERIAL			
STAINLESS STEEL,			
ALUM. ALLOY			
FINISH			

DO NOT SCALE DRAWING			

			
TITLE			
DOVETAIL SLIDE			
SIZE		DWG. NO.	
A4		MDE261M	
SCALE: 2:1		THIRD ANGLE PROJECTION	
SHEET 1 OF			

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE262M Dual Axis XY 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 μm
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

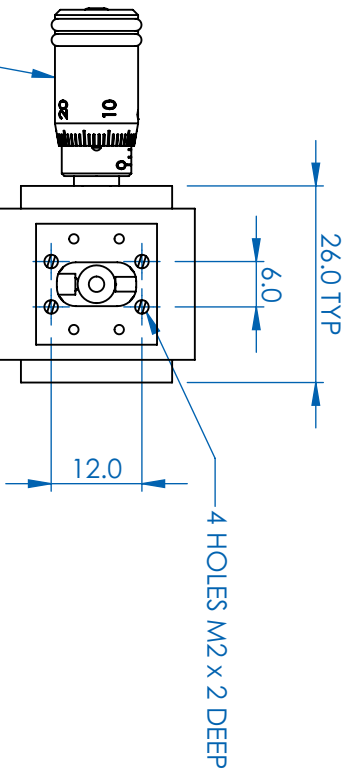
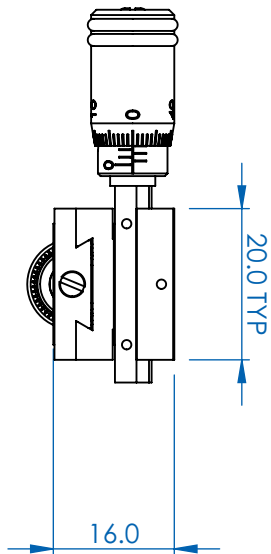
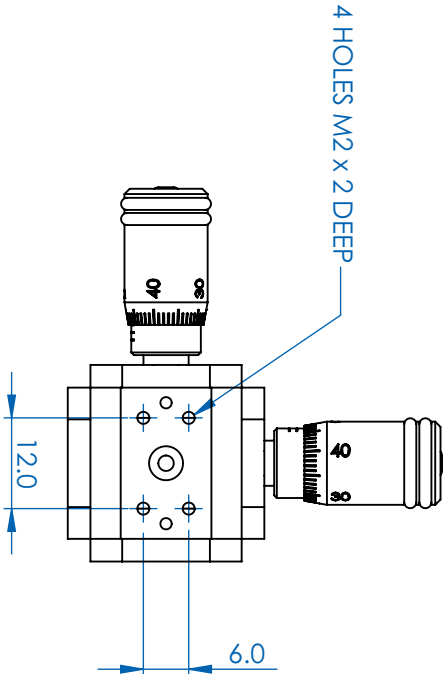
Variants

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

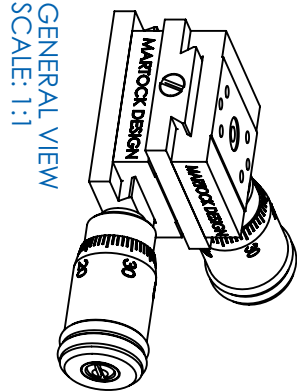
Notes

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.

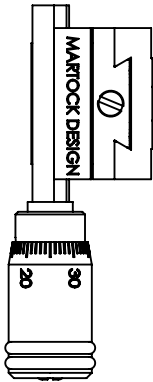
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



0.5mm PITCH MICROMETERS
50 DIVISIONS PER TURN



GENERAL VIEW
SCALE: 1:1



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

MATERIAL		NAME		DATE	
STAINLESS STEEL, ALUM. ALLOY		GW		14/02/2007	
FINISH		-		-	

DO NOT SCALE DRAWING					

TITLE		DWG. NO.		THIRD ANGLE PROJECTION	
2 AXIS DOVETAIL SLIDE		MDE262M			
SIZE A4					
SCALE: 1:1					

SHEET 1 OF 1

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261M-XZ Dual Axis XZ 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 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

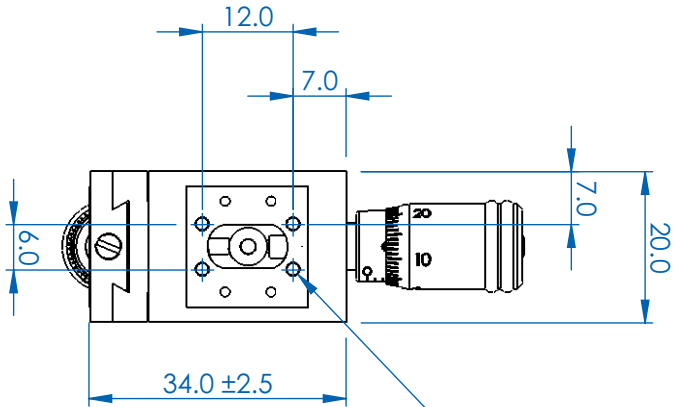
Variants

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

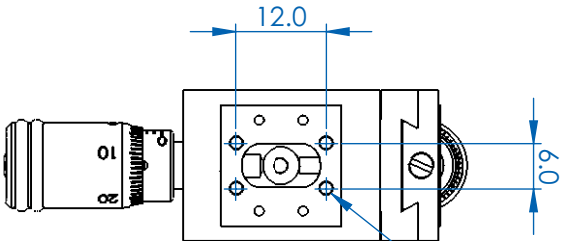
Notes

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REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			

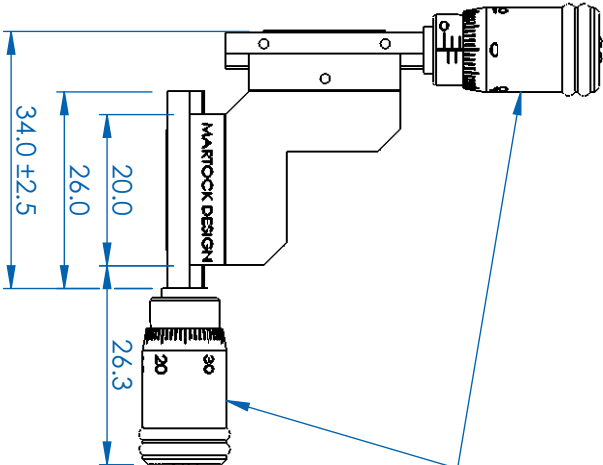


4 HOLES TAPPED M2 X 2 DEEP



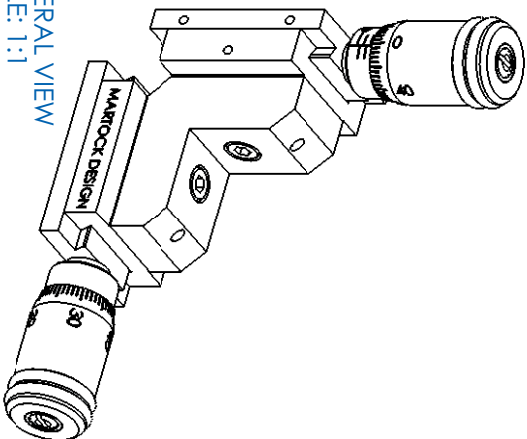
4 HOLES TAPPED M2 X 2 DEEP

EACH AXIS HAS ±2.5mm OF TRAVEL



0.5mm PITCH MICROMETERS
50 DIVISIONS PER TURN

GENERAL VIEW
SCALE: 1:1



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

NAME	DATE	TITLE	
AUTHOR	GW	XZ DOVETAIL SLIDE	
CHECKED	-	MDE261M-XZ	
MATERIAL		SIZE	
STAINLESS STEEL, ALUM. ALLOY		A4	
FINISH		DWG. NO.	
---		MDE261M-XZ	
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
SCALE: 1:1		SHEET 1 OF 1	

Manual Positioners: Very Small Linear Stages: 5 mm Travel

MDE261M-YZ Dual Axis YZ 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
Adjusters	Micrometer reading to 0.01 mm
Top plate	26 x 20 mm
Mounting holes	Four M2 x 2 mm deep on both sides

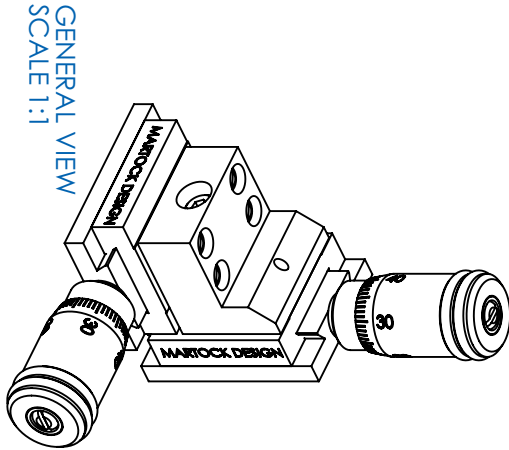
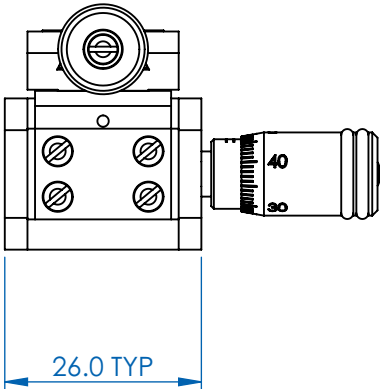
Variants

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

Notes

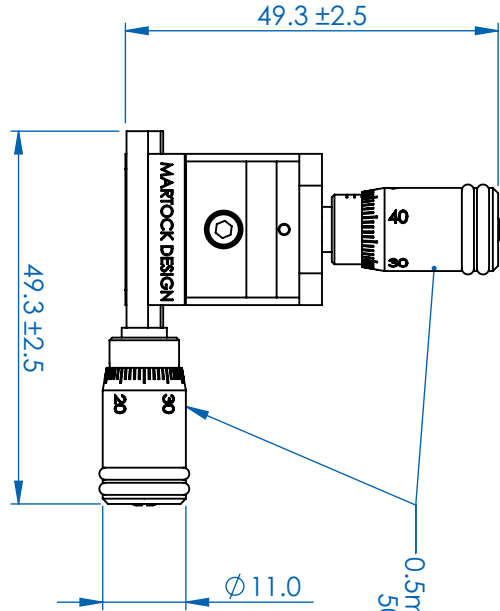
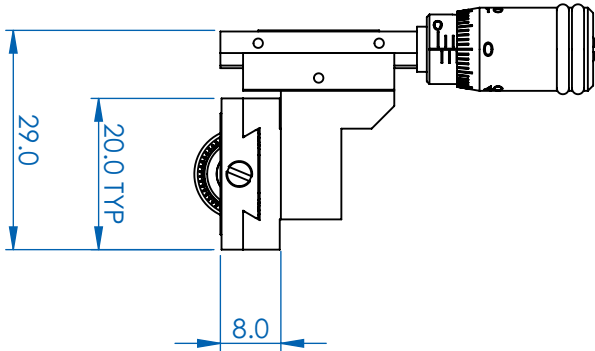
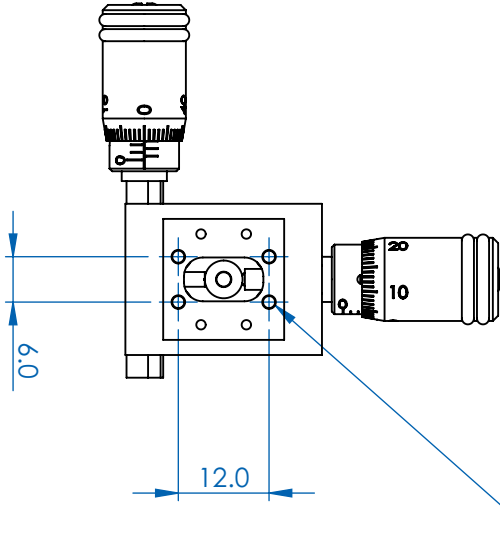
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REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			



GENERAL VIEW
SCALE 1:1

4 HOLES TAPPED M2 X 2 DEEP



0.5mm PITCH MICROMETERS
50 DIVISIONS PER TURN

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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	TITLE
AUTHOR	GW	09/06/2006
CHECKED	-	-
MATERIAL		
STAINLESS STEEL,		
ALUM. ALLOY		
FINISH		

DO NOT SCALE DRAWING		
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 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
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

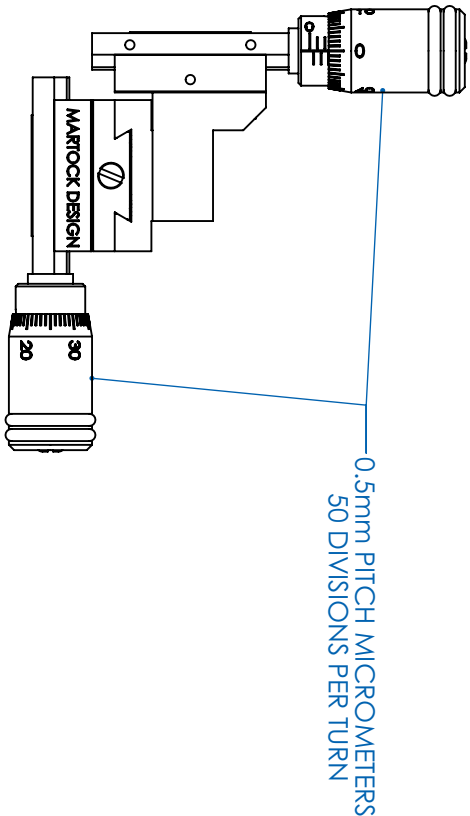
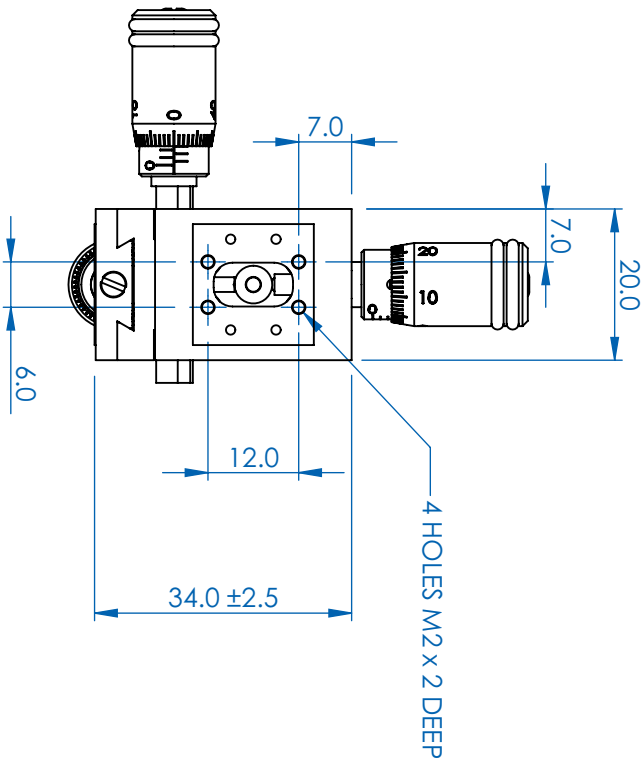
Table-mounting option: MDE293

Vacuum version

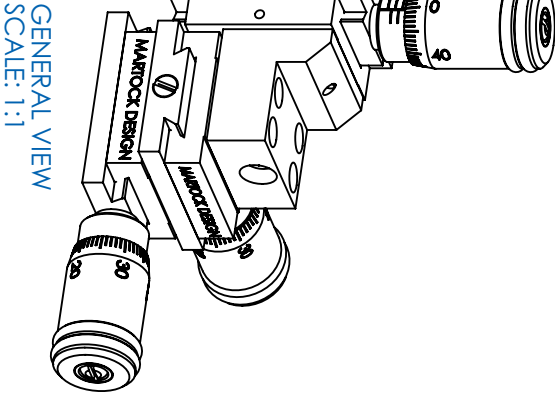
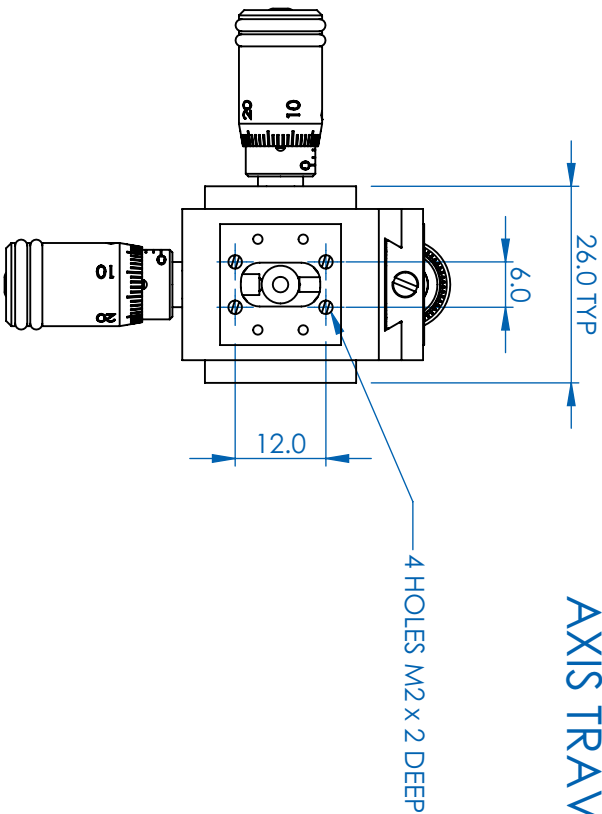
Notes

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.

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



AXIS TRAVEL ±2.5mm



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MATERIAL STAINLESS STEEL, ALUM. ALLOY		TITLE MDE263 WITH MICROMETERS	
FINISH ---		SIZE A4	
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	

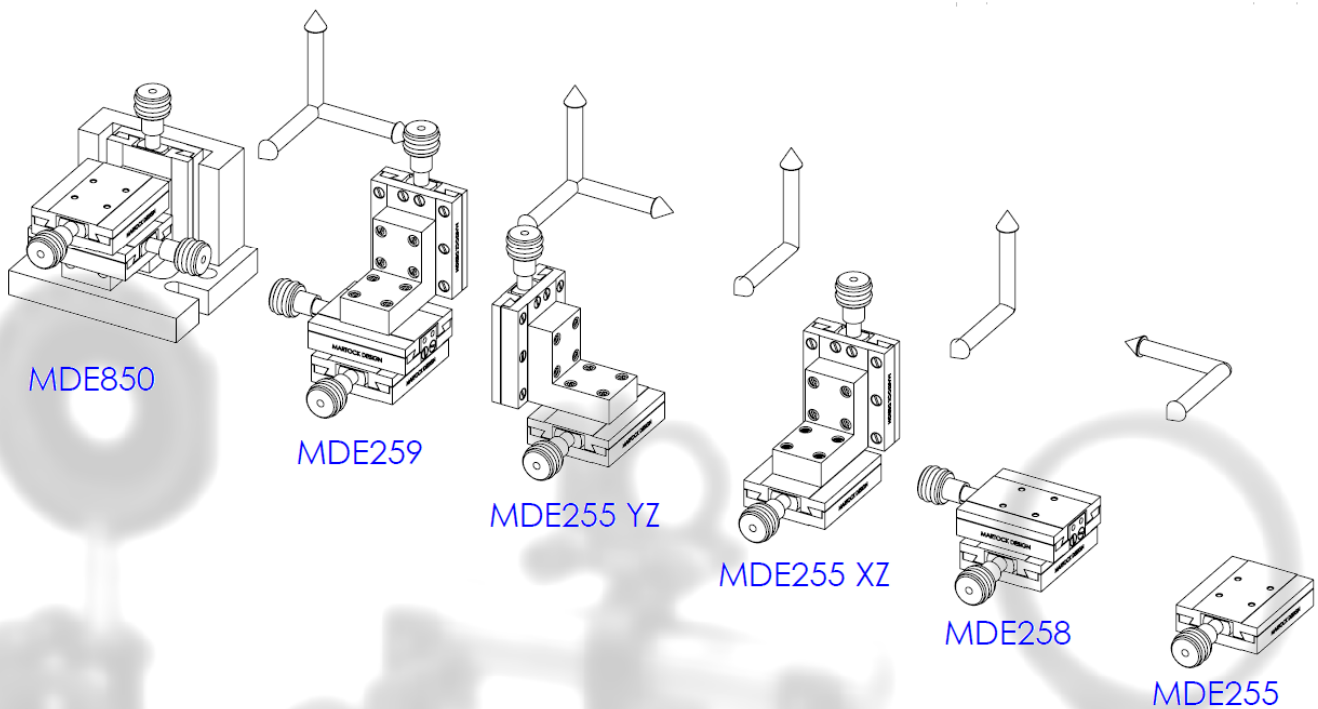
Eliot Scientific

DWG. NO. MDE263M

SHEET 1 OF 1

Opto-Mechanics 2011

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

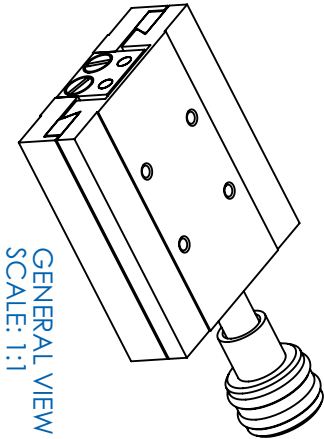
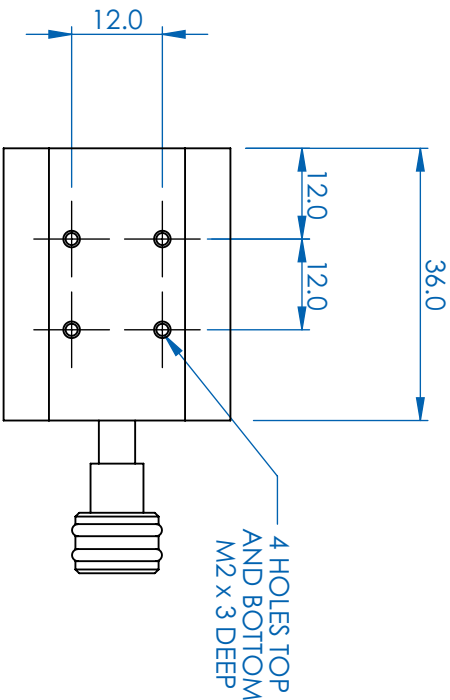
Specifications

Travel	10 mm
Sensitivity	< 0.5 μm
Adjuster	0.25 pitch

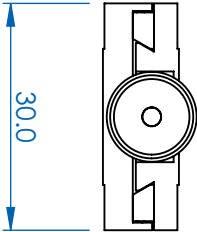
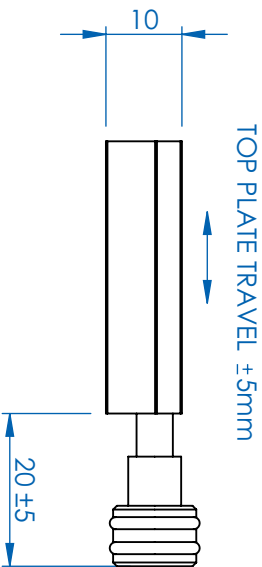
Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



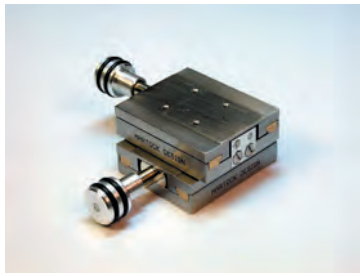
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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		—		—		STAINLESS STEEL, BRASS, ALUM, ALLOY	
DO NOT SCALE		DRAWING		TITLE		FINISH	
SIZE		DWG. NO.		MDE255 LINEAR SLIDE		---	
A4		MDE255		THIRD ANGLE PROJECTION		SHEET 1 OF 1	
SCALE: 1:1							



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

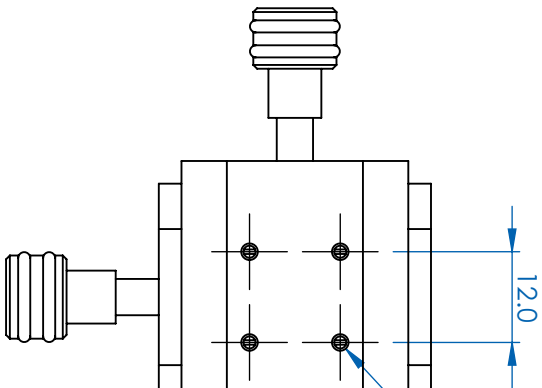
Specifications

Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

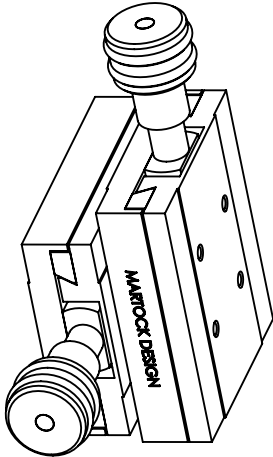
Variants

Lockable travel
Vacuum version
Non-magnetic version

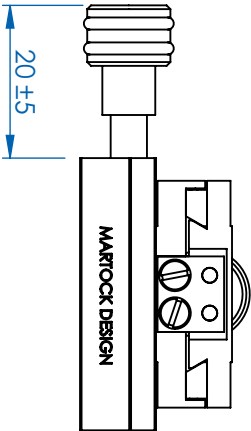
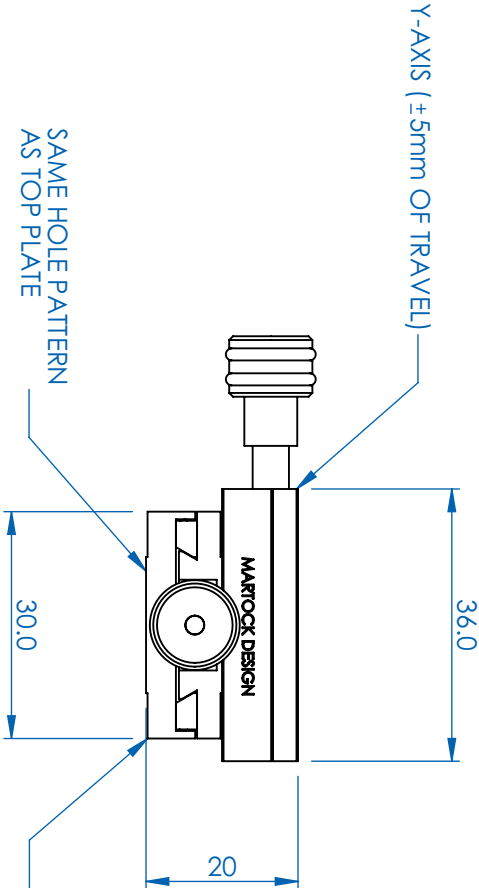
REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



4 HOLES M2 x 3 DEEP



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		---			
DO NOT SCALE		DRAWING		TITLE	
SIZE		DWG. NO.		2 AXIS MICROPOSITIONER	
A4		MDE258		THIRD ANGLE PROJECTION	
SCALE: 1:1		SHEET 1 OF 1		Eliot Scientific	

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

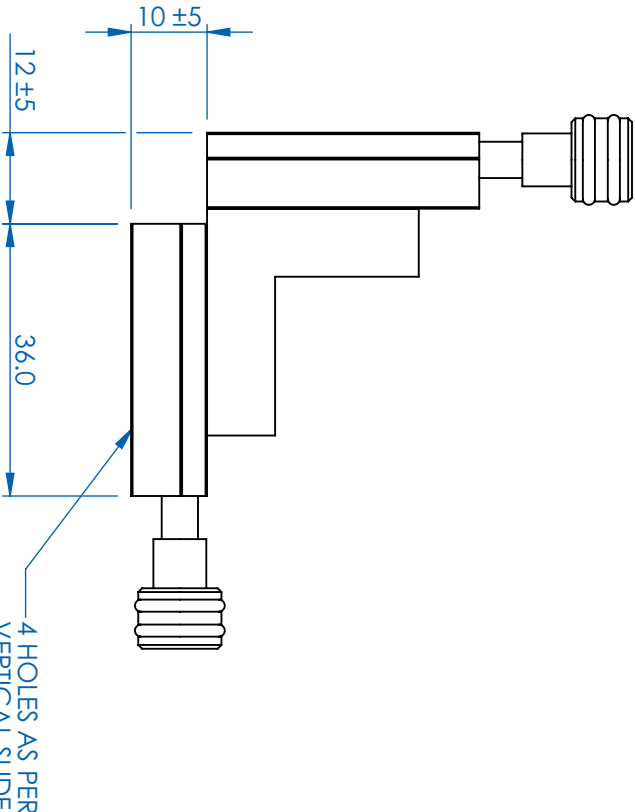
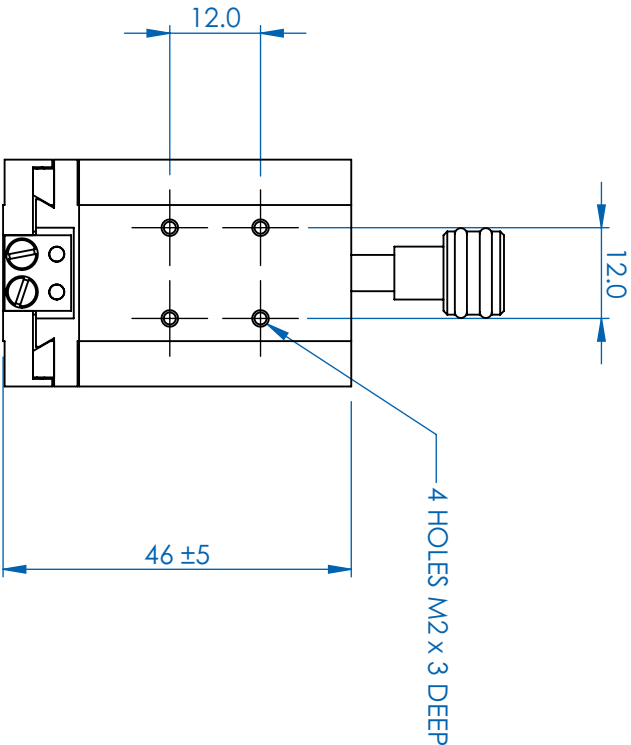
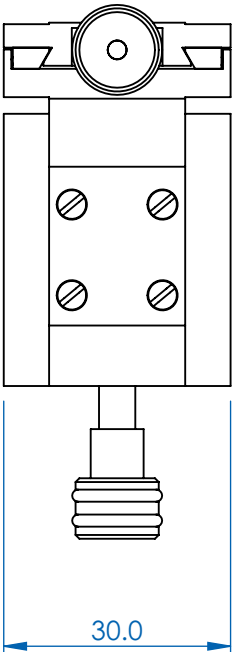
Specifications

Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		--		11/05/2010		STAINLESS STEEL, BRASS, ALUM, ALLOY	
FINISH		---		---		TITLE	
DO NOT SCALE DRAWING		SCALE: 1:1		THIRD ANGLE PROJECTION		SHEET 1 OF 1	
SIZE		DWG. NO.		MDE235 XZ		Eliot Scientific	
A4		---		---		XZ DOVETAIL SLIDE	

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255-YZ Dual Axis YZ Small Micropositioner



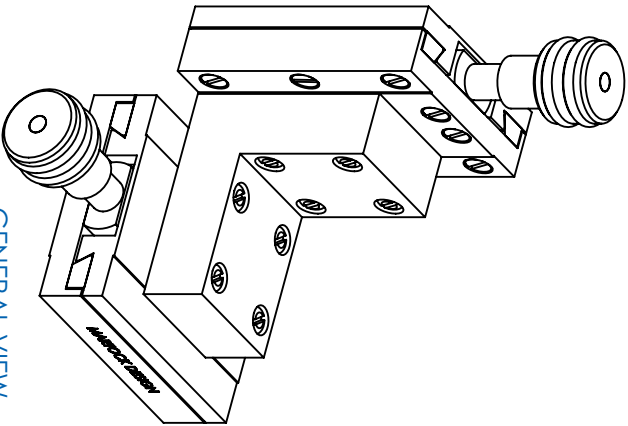
- Stainless steel body
- Small dovetail slides
- Wide range of configurations
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs

Specifications

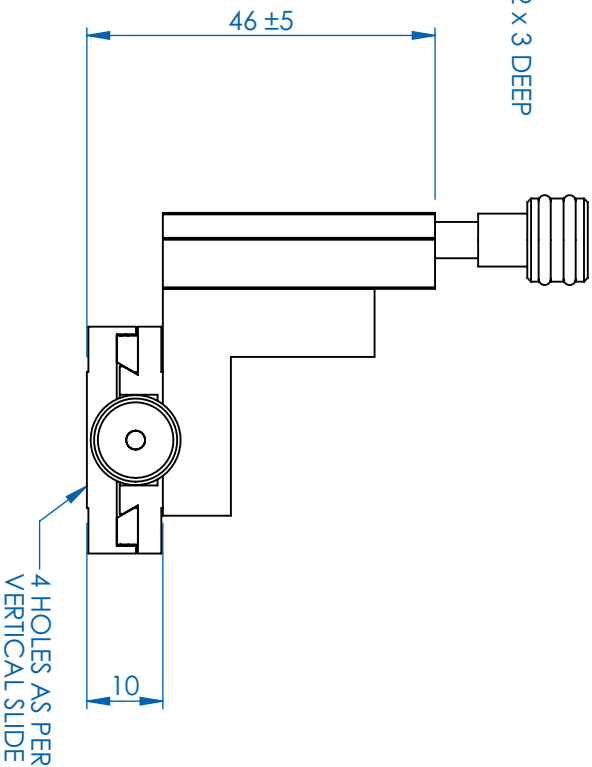
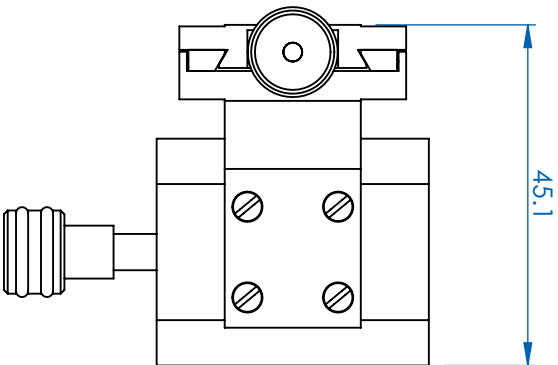
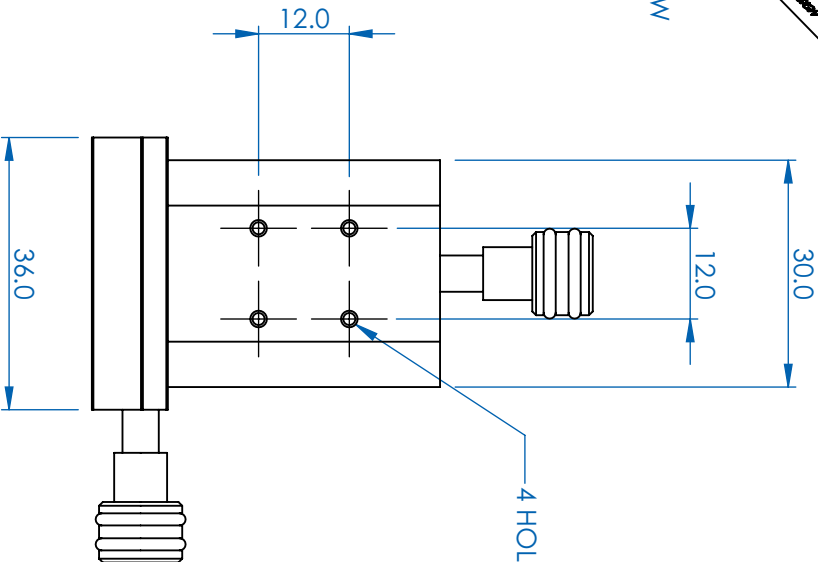
Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version



GENERAL VIEW
SCALE 1:1



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REV.	DESCRIPTION		

Elliott Scientific

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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

NAME	DATE	TITLE
AUTHOR	11/05/2010	YZ DOVETAIL SLIDE
CHECKED	—	DWG. NO. MDE235 YZ
FINISH	---	SCALE: 1:1
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION
		SHEET 1 OF 1

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

Specifications

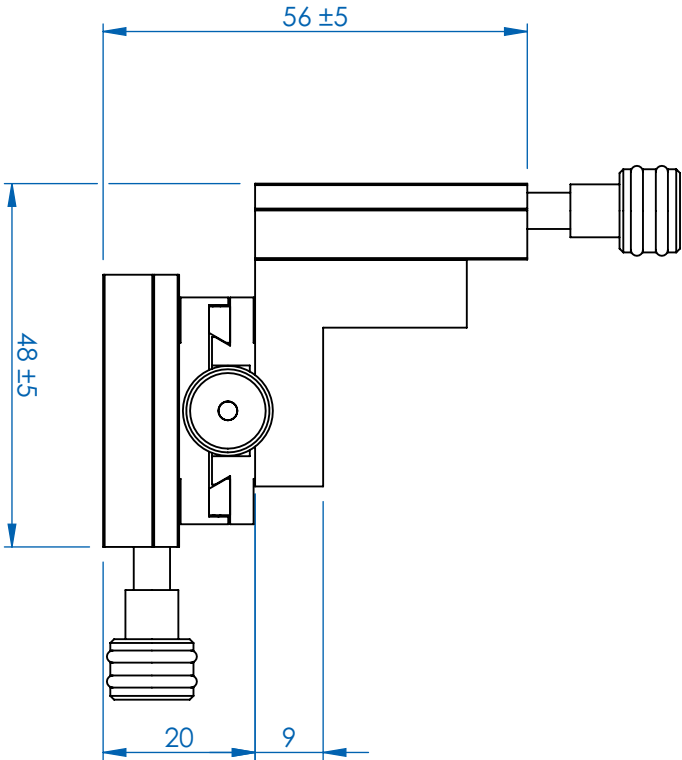
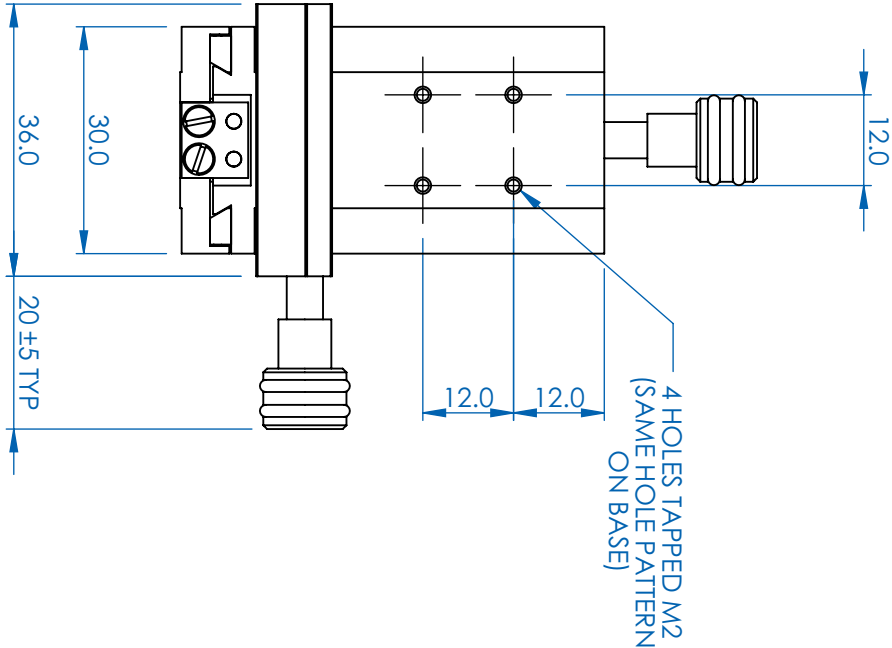
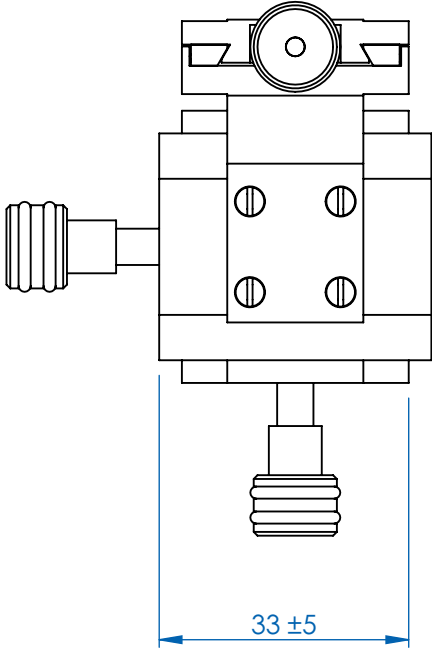
Travel	10 mm
Sensitivity	< 0.5 μm
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

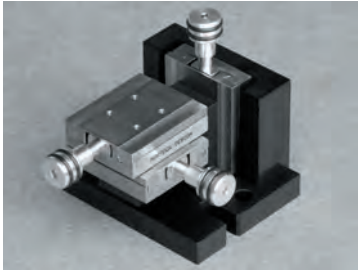
ALL THREE AXES ±5mm TRAVEL



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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		GW		11/05/2010		STAINLESS STEEL, BRASS, ALUM, ALLOY	
FINISH		---				TITLE	
DO NOT SCALE DRAWING		SCALE: 1:1		THIRD ANGLE PROJECTION		SHEET 1 OF 1	
SIZE		DWG. NO.		MDE259		3-Axis Micropositioner	
A4						Eliot Scientific	

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



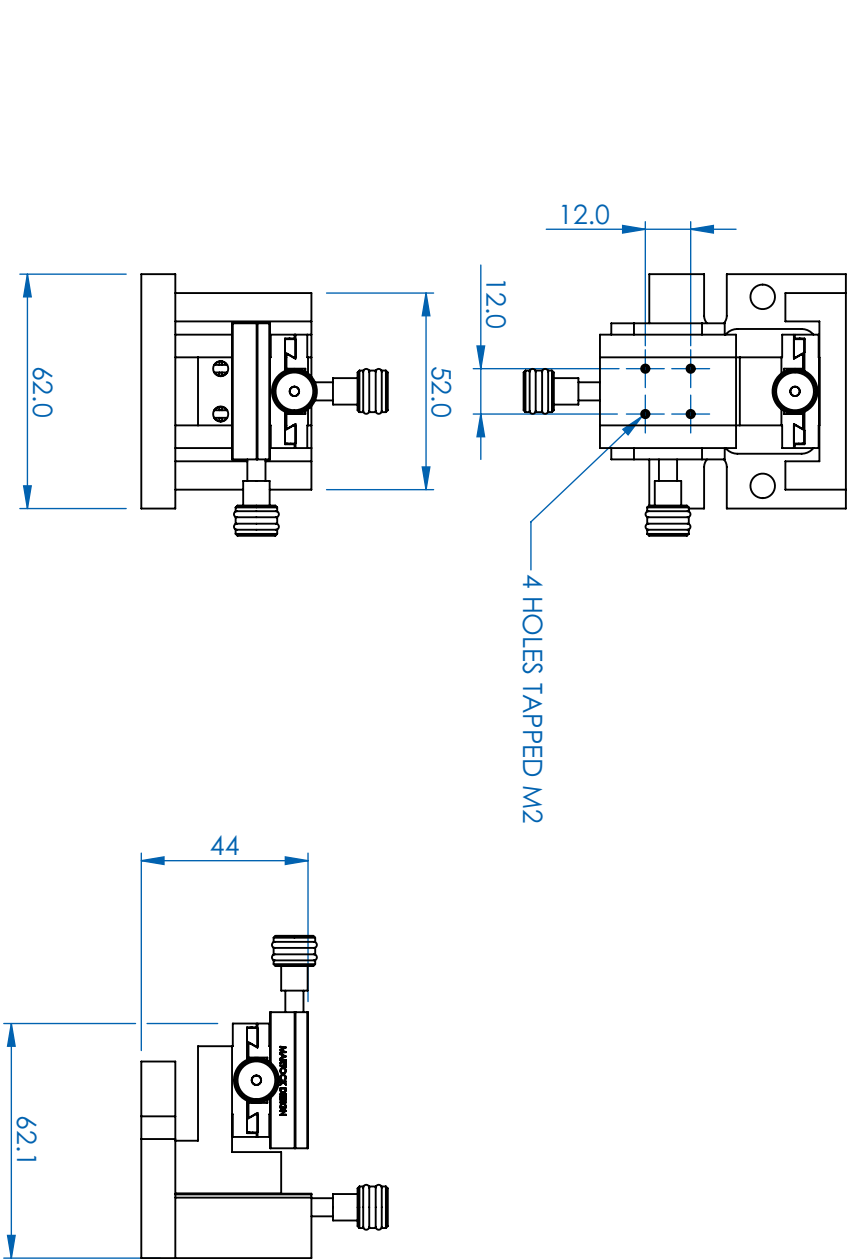
Specifications

Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	0.25 pitch

Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
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MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY		FINISH ---	
AUTHOR CHECKED	NAME GW	DATE 26/05/2010	
DO NOT SCALE DRAWING		TITLE XYZ MICROPOSITIONER	
SIZE A4		DWG. NO. MDE850	
SCALE: 1:2		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
- Micrometer adjuster
- Very smooth backlash-free motion
- Slide surfaces precision lapped in matched pairs



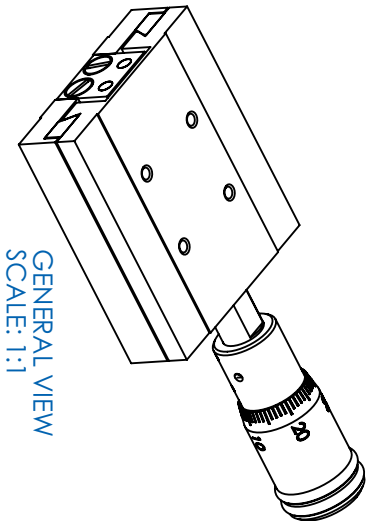
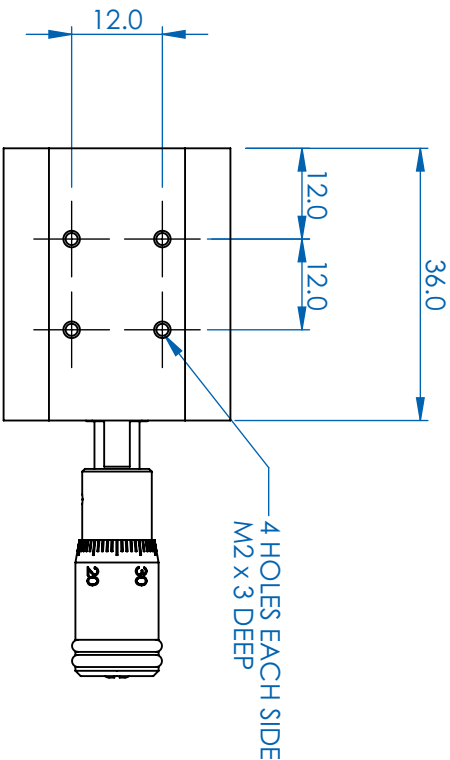
Specifications

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

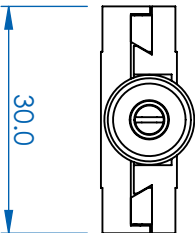
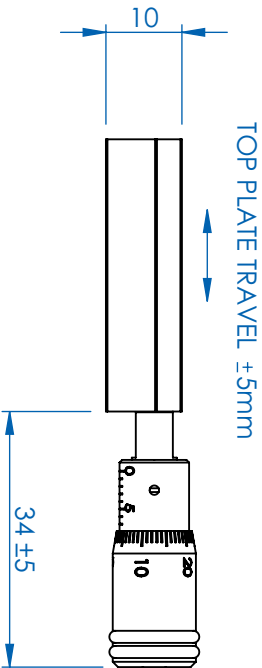
Variants

Lockable travel
Vacuum version
Non-magnetic version

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

NAME		DATE	
AUTHOR	GW	26/06/2008	
CHECKED	-	-	
MATERIAL			
STAINLESS STEEL, BRASS, ALUM, ALLOY			
FINISH			

DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
TITLE		SHEET 1 OF 1	
SLIDE WITH MICROMETER			
SIZE	DWG. NO.		
A4	MDE235M		

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE258M Dual Axis XY Small Micropositioner with Micrometer



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

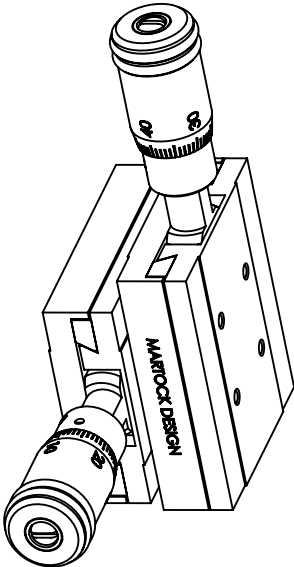
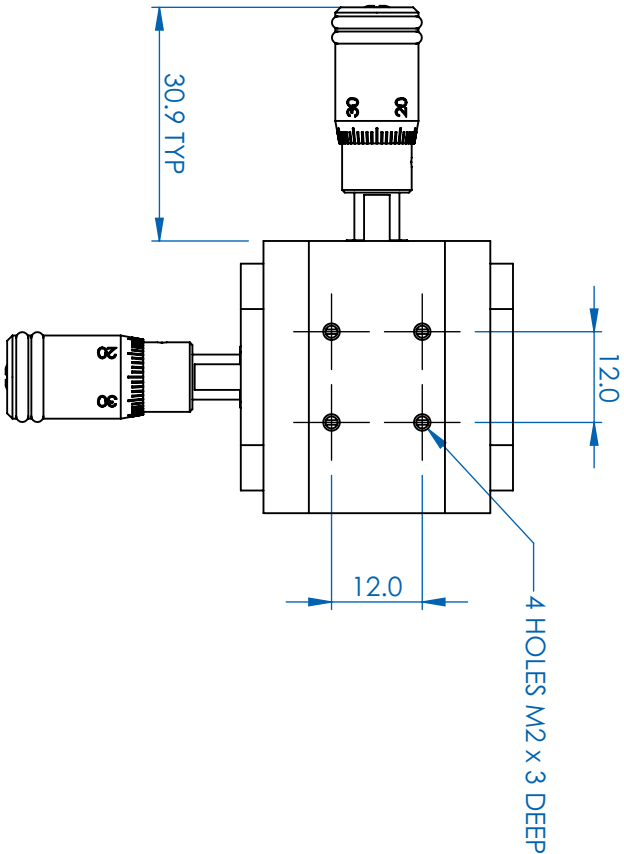
Specifications

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

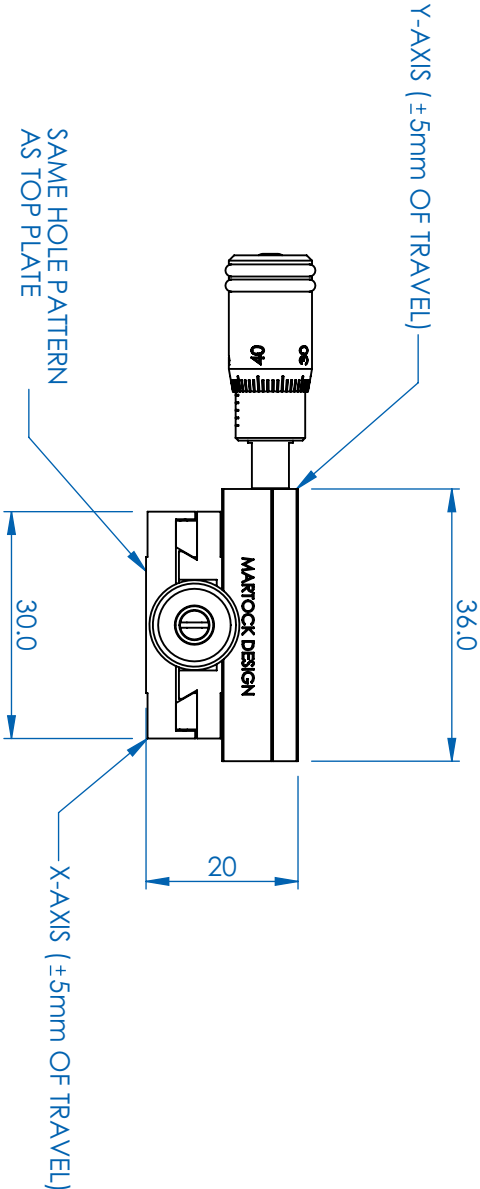
Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



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

NAME	DATE
AUTHOR GW	25/05/2010
CHECKED --	--
MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY	
FINISH ---	
DO NOT SCALE DRAWING	
TITLE Eliot Scientific	
2 AXIS MICROPOSITIONER	
SIZE A4	DWG. NO. MDE258M
SCALE: 1:1	THIRD ANGLE PROJECTION
SHEET 1 OF 1	

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255M-XZ Dual Axis XZ Small Micropositioner with Micrometer



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



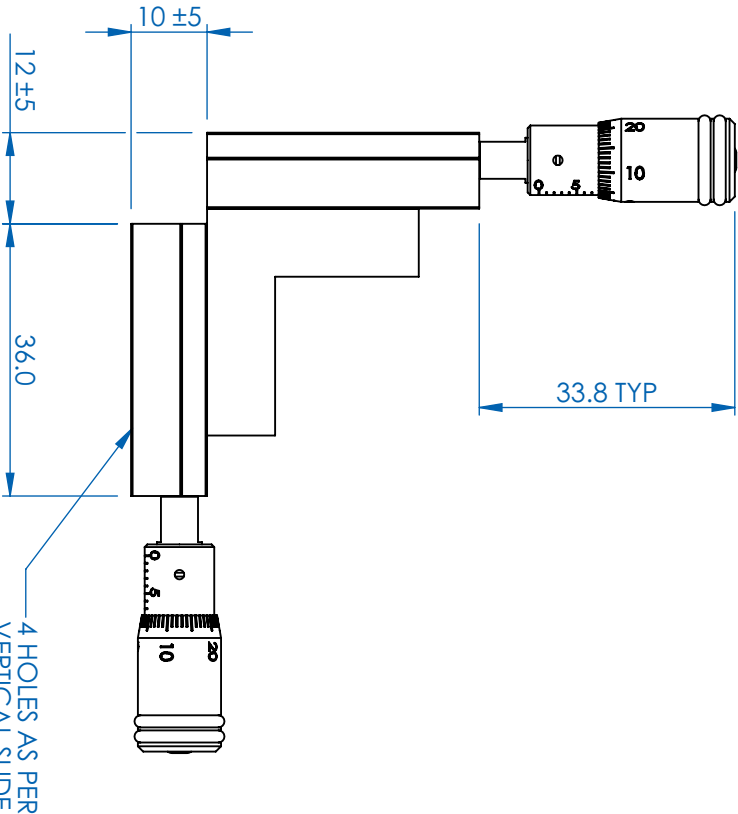
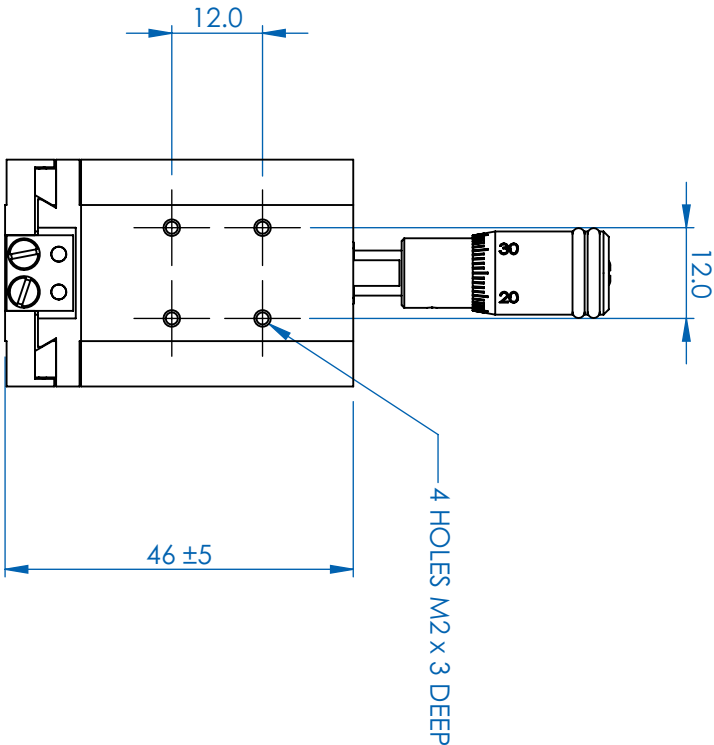
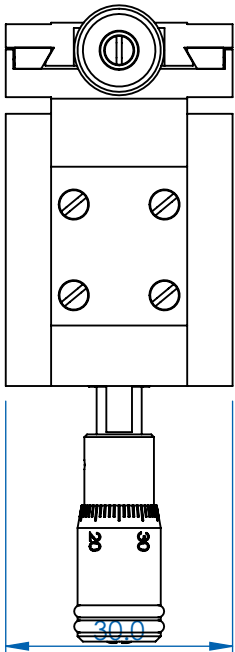
Specifications

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

Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS			DATE	APPROVED
REV.	DESCRIPTION			



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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		—		11/05/2010		STAINLESS STEEL, BRASS, ALUM., ALLOY	
FINISH		---		---		TITLE	
SIZE		A4		DWG. NO.		XZ DOVETAIL SLIDE	
SCALE: 1:1		THIRD ANGLE PROJECTION		SHEET 1 OF 1		MDE235M-XZ	

Manual Positioners: Small Linear Stages: 10 mm Travel

MDE255M-YZ Dual Axis YZ Small Micropositioner with Micrometer



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

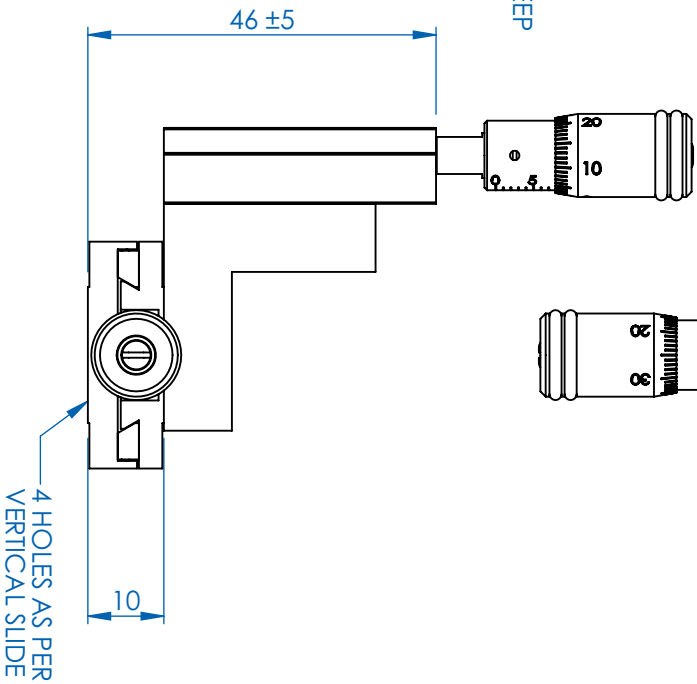
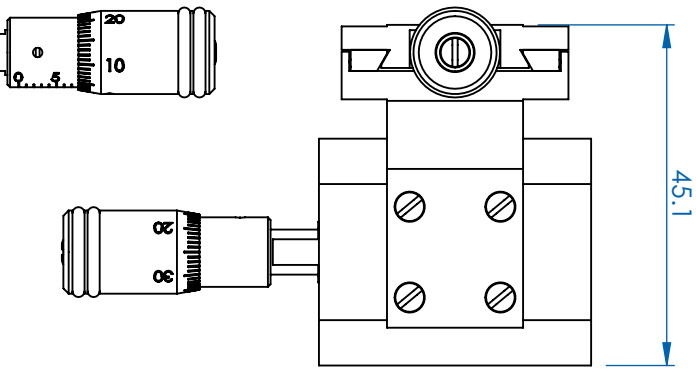
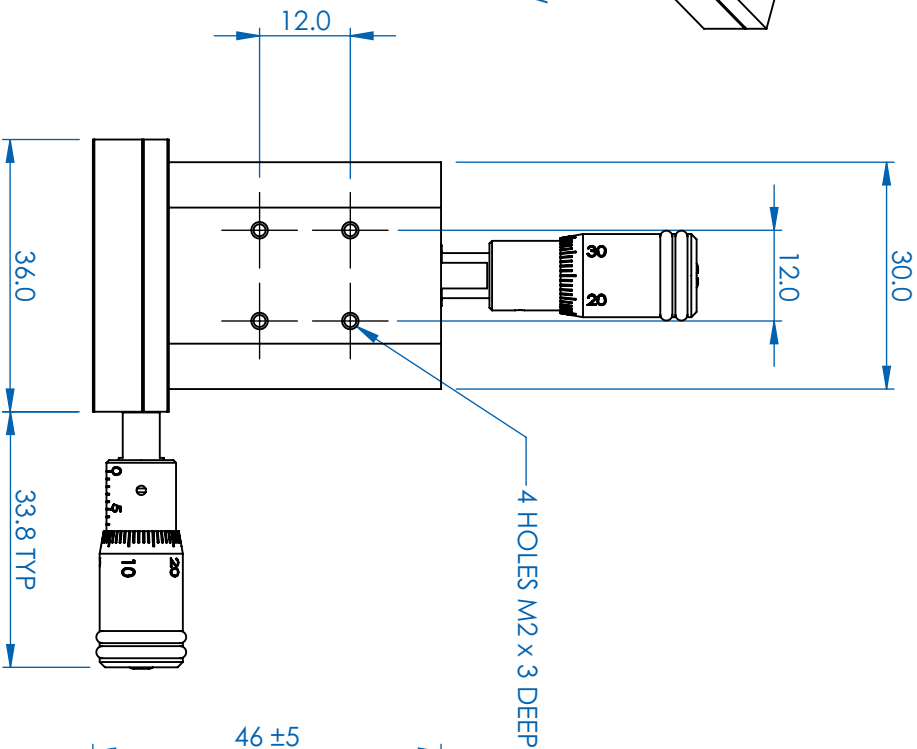
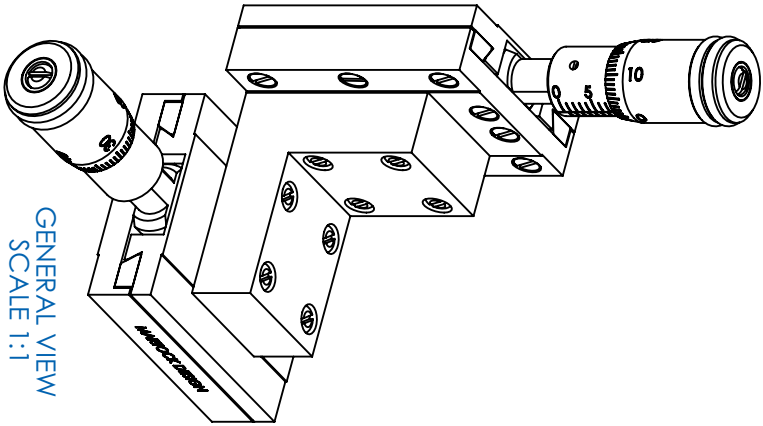
Specifications

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

Variants

Lockable travel
Vacuum version
Non-magnetic version

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

NAME		DATE	
AUTHOR	GW	11/05/2010	
CHECKED	-	-	
MATERIAL STAINLESS STEEL, BRASS, ALUM, ALLOY			
FINISH ---			
DO NOT SCALE DRAWING			
TITLE		Elliott Scientific	
YZ DOVETAIL SLIDE			
SIZE A4	DWG. NO. MDE235M-YZ		
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 Micrometer



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

Specifications

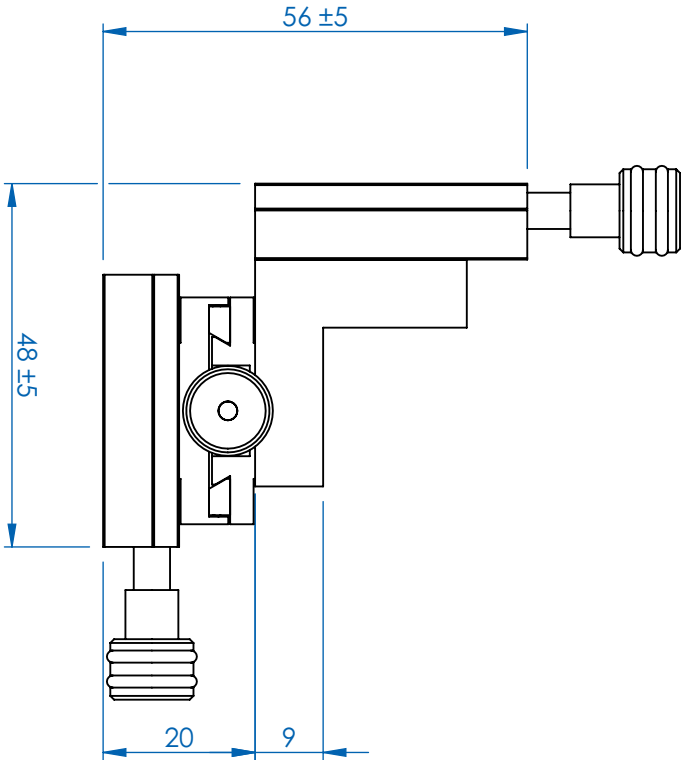
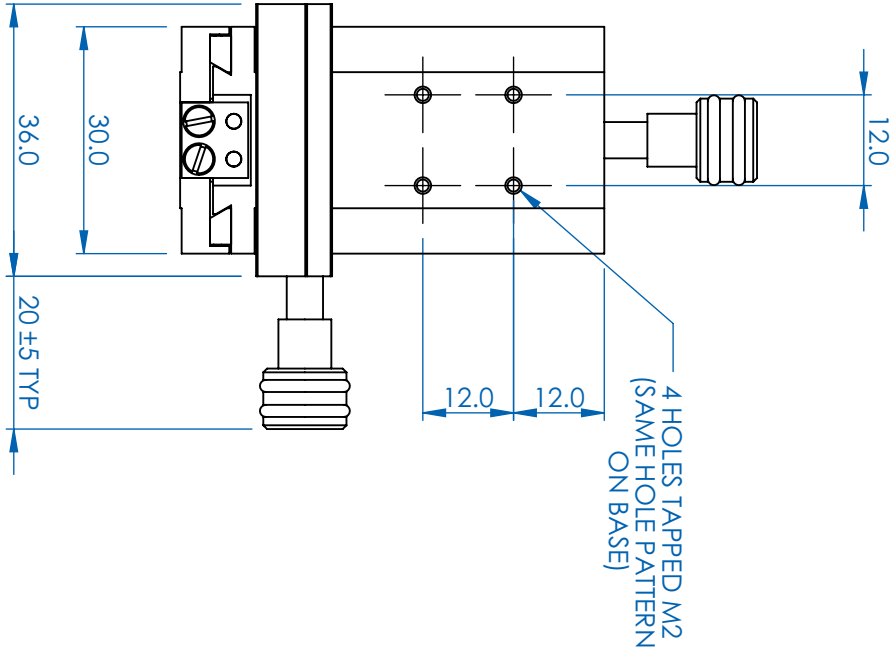
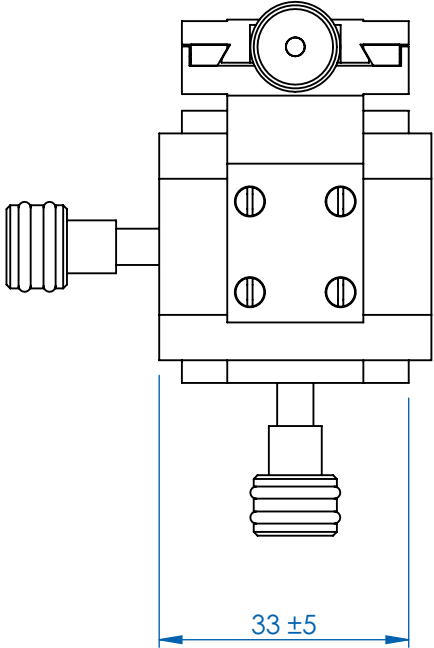
Travel	10 mm
Sensitivity	< 0.5 μ m
Adjusters	Micrometer reading to 0.01 mm

Variants

Lockable travel
Vacuum version
Non-magnetic version

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		

ALL THREE AXES ±5mm TRAVEL



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AUTHOR		NAME		DATE		MATERIAL	
CHECKED		GW		11/05/2010		STAINLESS STEEL, BRASS, ALUM, ALLOY	
FINISH		---		---		3-Axis Micropositioner	
DO NOT SCALE DRAWING		SCALE: 1:1		THIRD ANGLE PROJECTION		SHEET 1 OF 1	

Opto-Mechanics 2011

Centring Micropositioners



Manual Positioners: Centreing Micropositioners

MDE250-S XY Simple Centreing Micropositioner



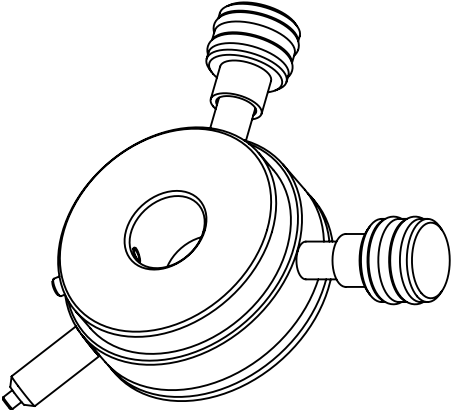
- Travel ± 1 mm
- Stainless steel body
- Simple centreing screw design
- For use where space is limited
- Wide range of configurations
- Very smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits small laser diodes)

Specifications

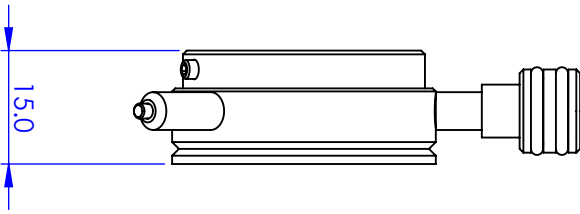
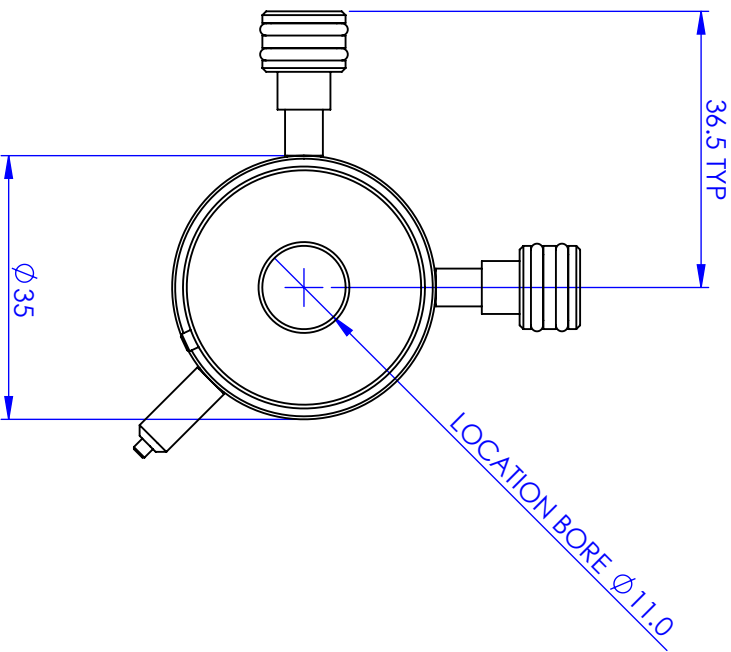
Travel	± 1 mm X and Y
Sensitivity	$< 2 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	11 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

For the latest price, contact us today.

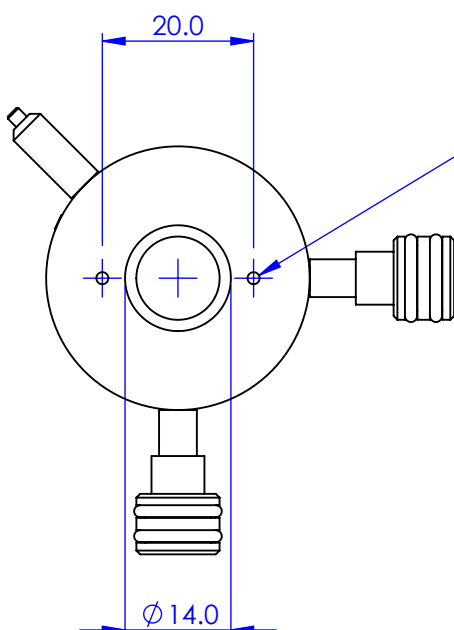
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± 1mm X&Y TRAVEL



2 HOLES TAPPED M2



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REMOVED

NAME		DATE	
AUTHOR	GW	23/03/2010	
CHECKED	-	-	
MATERIAL STAINLESS STEEL			
FINISH ---			
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
TITLE CENTRING MOUNT		SIZE A4	DWG. NO. MDE250S
Elliott Scientific		SHEET 1 OF 1	

Manual Positioners: Centreing Micropositioners

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



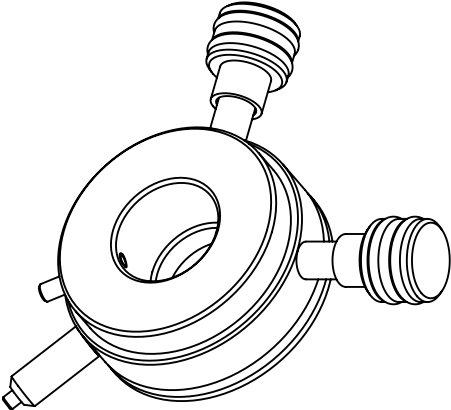
- Travel ± 1 mm
- Stainless steel body
- Simple centreing screw design
- For use where space is limited
- Wide range of configurations
- Very smooth backlash-free motion
- Large 15 mm \varnothing bore

Specifications

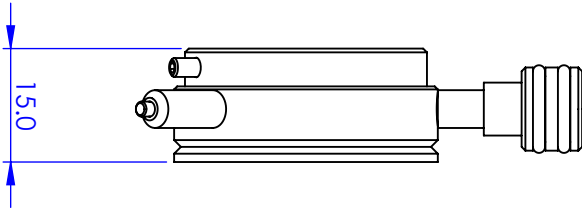
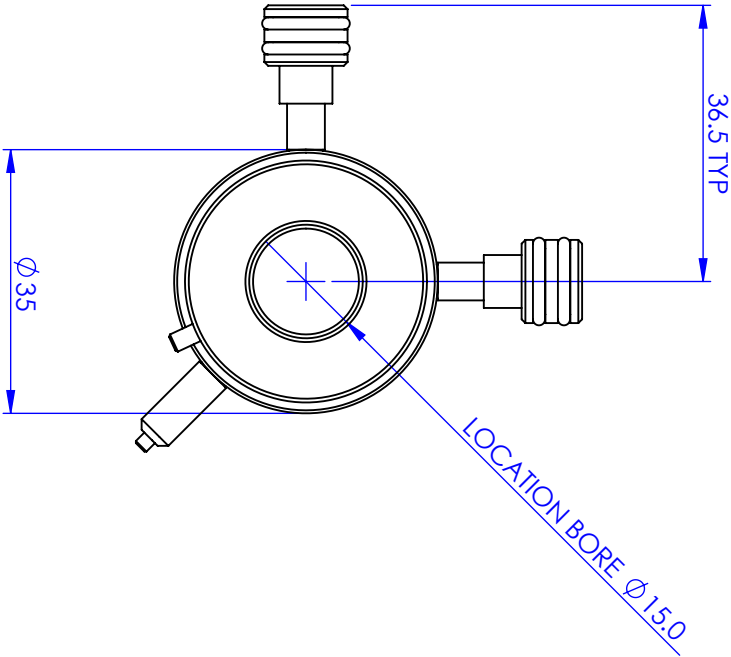
Travel	± 1 mm X and Y
Sensitivity	$< 2 \mu\text{m}$
Adjusters	0.25 pitch
Bore diameter	15 mm
Mounting holes	Two M2 x 3.5 mm deep
Thickness	13 mm

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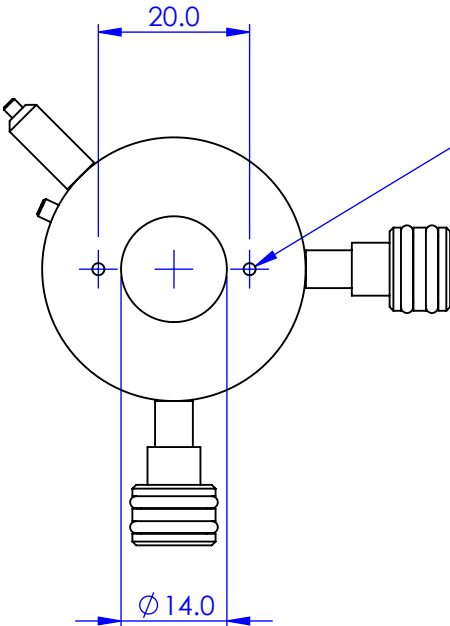
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±1mm X&Y TRAVEL



2 HOLES TAPPED M2



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NAME		DATE	
AUTHOR	GW	23/03/2010	
CHECKED	-	-	
MATERIAL STAINLESS STEEL			
FINISH ---			
DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
TITLE Elliott Scientific		SIZE A4	DWG. NO. MDE250-S-15
CENTRING MOUNT		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.

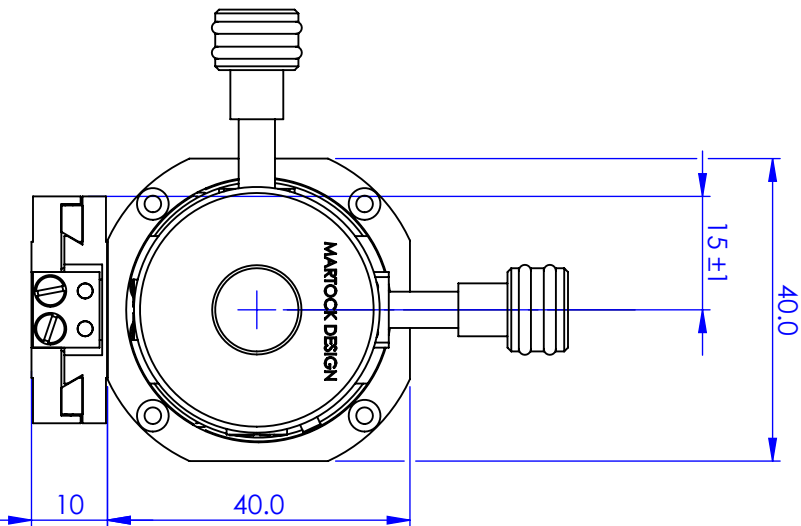
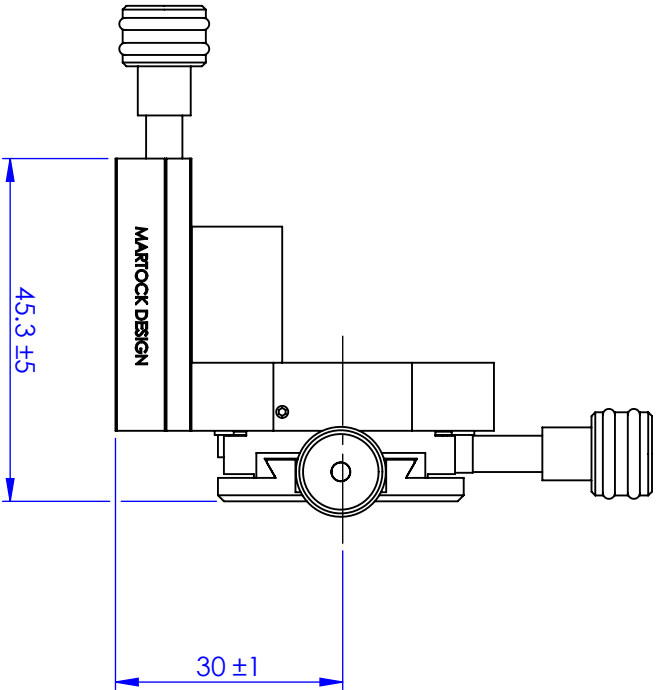
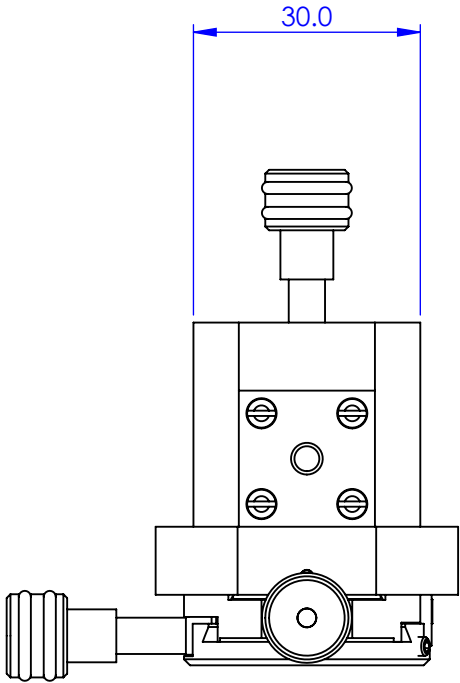
Specifications

X-axis travel	10 mm
X-axis sensitivity	< 0.5 μ m
Z & Y-axis travel	\pm 1mm
Adjusters	0.25 pitch
Z & Y-axis location bore	11 mm Ø, 5 mm deep

Options

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

For the latest price, contact us today.



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AND CORNERS TO BE
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AUTHOR	NAME	DATE
CHECKED	GW	12/01/2007
FINISH	---	---
MATERIAL	STAINLESS STEEL, BRASS, ALUM, ALLOY	

XYZ MICROPOSITIONER

SIZE **A4**

DWG. NO. **MDE257**

DO NOT SCALE DRAWING

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

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

Specifications

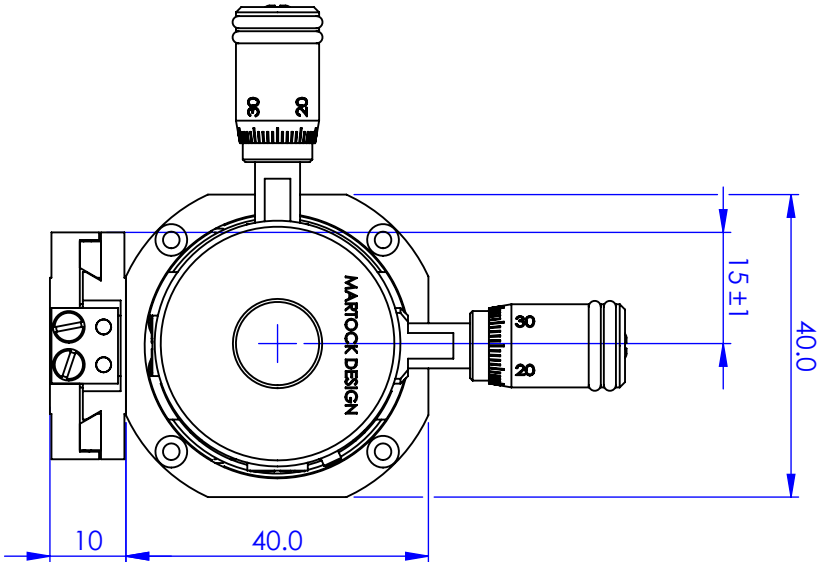
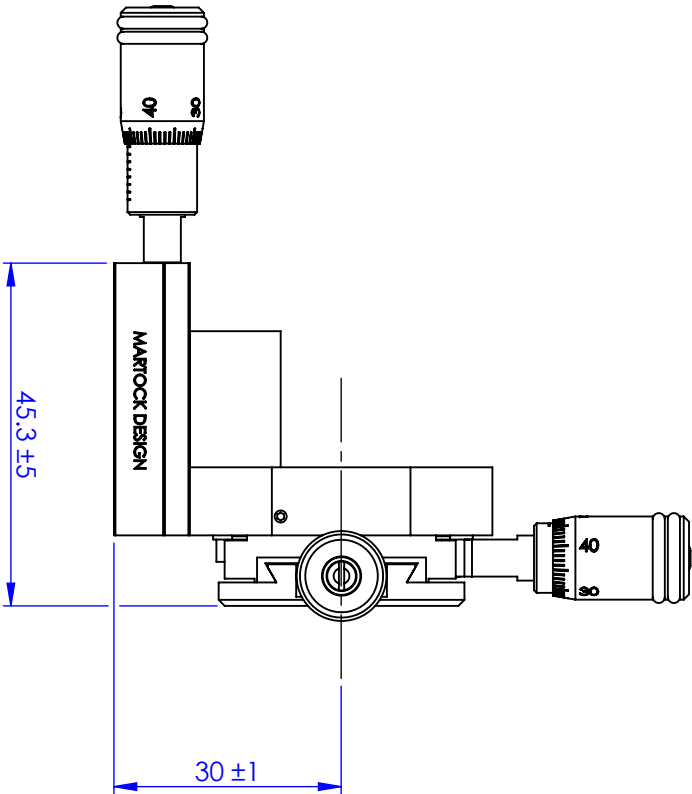
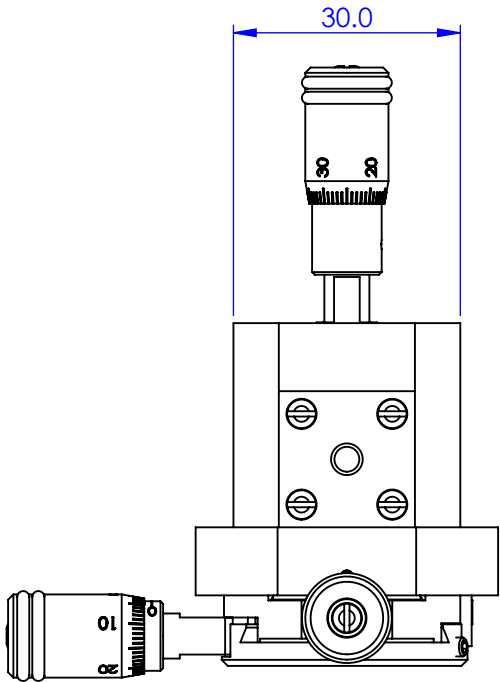
X-axis travel	10 mm
X-axis sensitivity	< 0.5 μm
Z & Y-axis travel	$\pm 1\text{mm}$
Micrometer scales	0.01 mm
Z & Y-axis location bore	11 mm Ø, 5 mm deep

Options

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

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AND CORNERS TO BE
REMOVED

NAME		DATE	
AUTHOR	GW	12/01/2007	
CHECKED	-	-	
MATERIAL			
STAINLESS STEEL, BRASS, ALUM, ALLOY			
FINISH			

DO NOT SCALE DRAWING		SCALE: 1:1	THIRD ANGLE PROJECTION
TITLE		SHEET	
Eliot Scientific		A4	
XYZ MICROPOSITIONER		DWG. NO.	
		MDE257M	
		SHEET 1 OF 1	

Manual Positioners: Centreing Micropositioners

MDE251 XY Precision Centreing Micropositioner



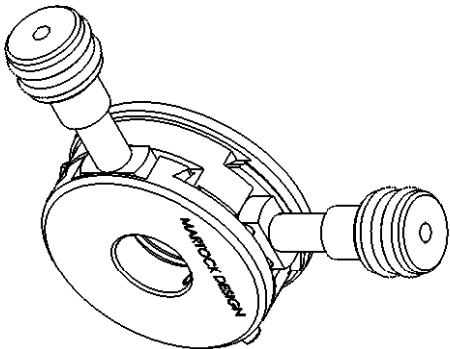
- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits small laser diodes)

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

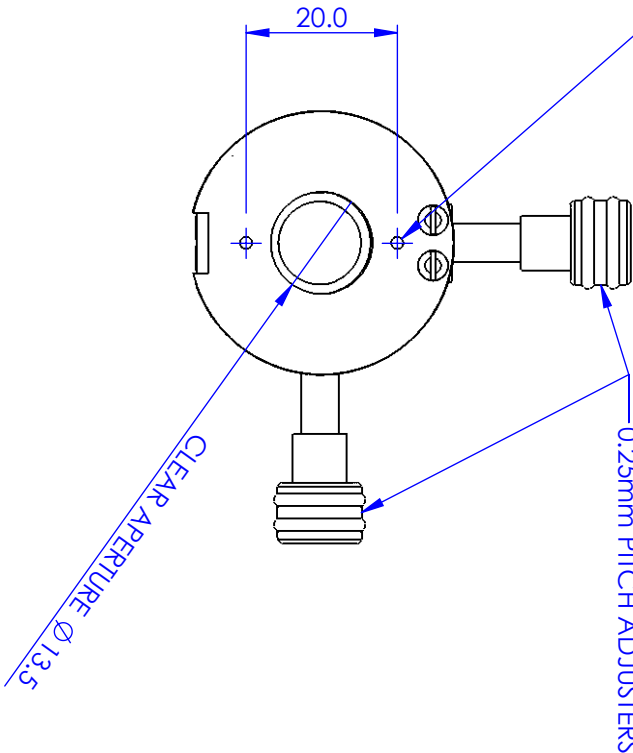
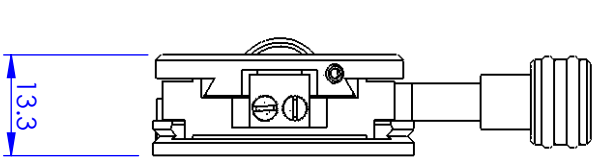
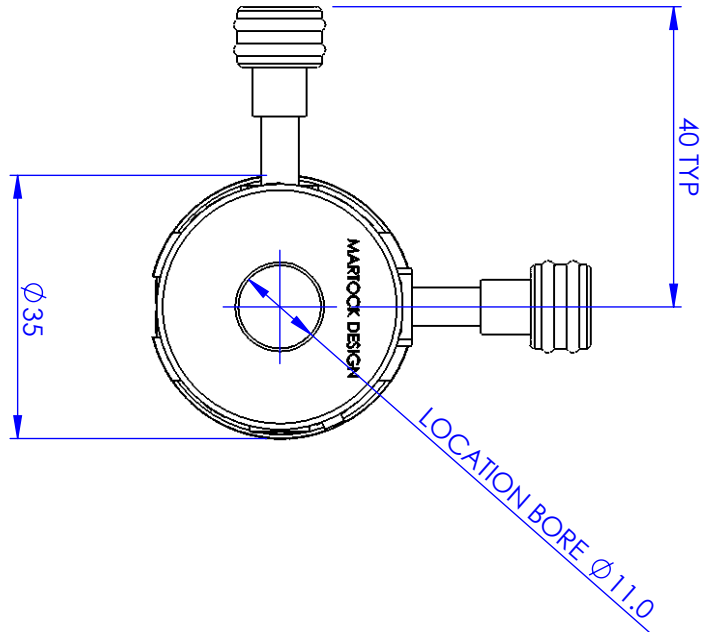
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±1mm X & Y TRAVEL DOVETAIL SLIDES

GENERAL VIEW
SCALE: 1:1



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

NAME		DATE	
AUTHOR	GW	25/05/2010	
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MATERIAL			
STAINLESS STEEL			
AL. ALLOY/AL. BRONZE			
FINISH			

TITLE			
PRECISION XY MICROPOSITIONER			
SIZE		DWG. NO.	
A4		MDE251	
DO NOT SCALE DRAWING		THIRD ANGLE PROJECTION	
SCALE: 1:1		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

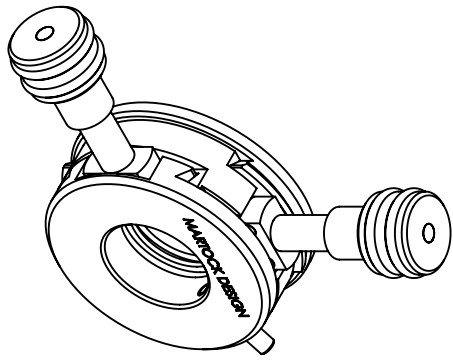
Specifications

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

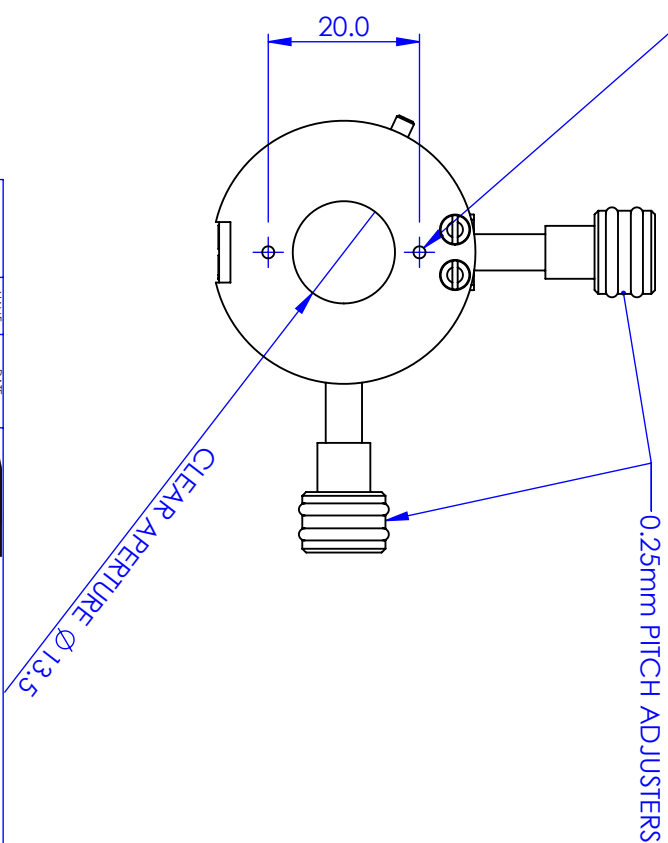
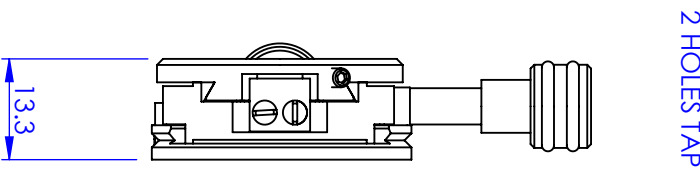
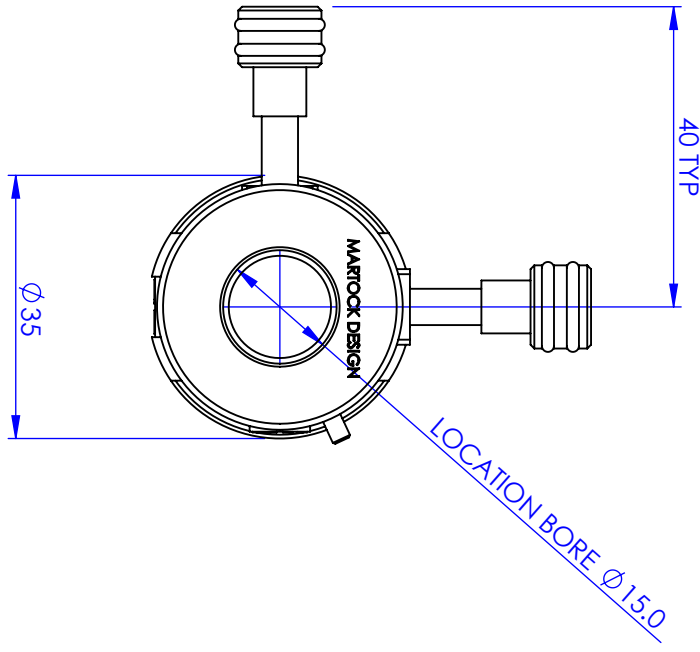
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±1mm X & Y TRAVEL
DOVETAIL SLIDES



GENERAL VIEW
SCALE: 1:1



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SURFACE FINISH:
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AND CORNERS TO BE
REMOVED

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

Manual Positioners: Centreing Micropositioners

MDE251M XY Precision Centreing Micropositioner with Micrometers (Large Bore)



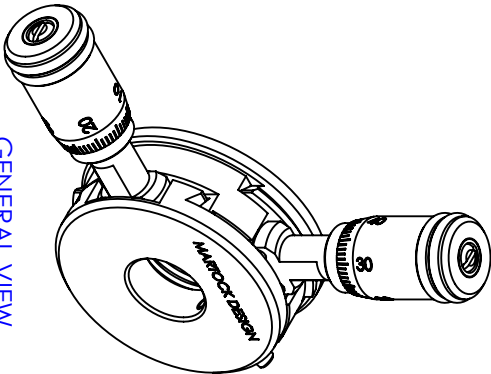
- Travel ± 1 mm
- Stainless steel body
- Two independent dovetail slides
- Micrometer adjusters
- Fine thread 0.25 pitch adjusters
- No interaction between X & Y axes
- For use where space is limited
- Wide range of configurations
- Smooth backlash-free motion
- Standard 11 mm \varnothing bore (suits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

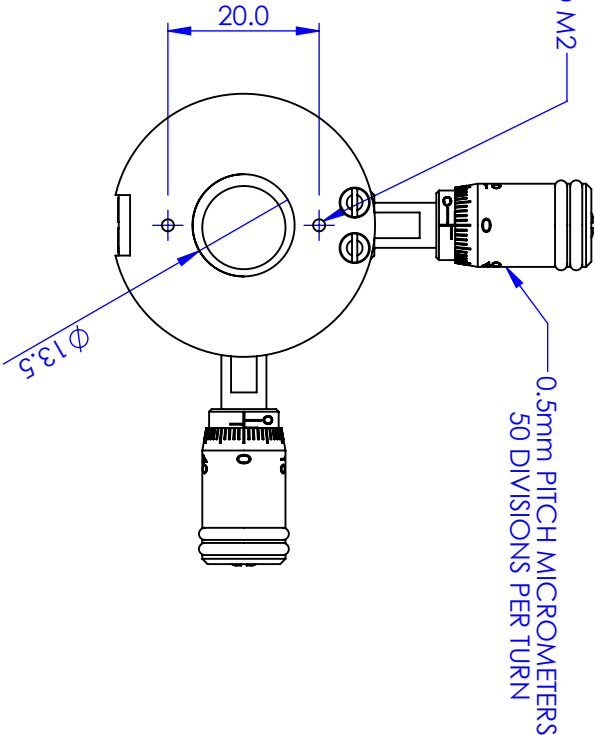
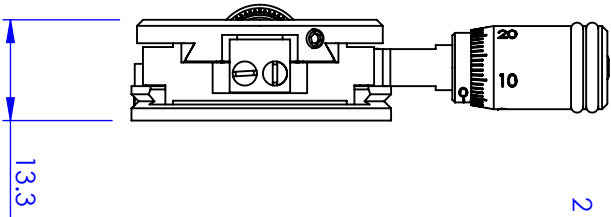
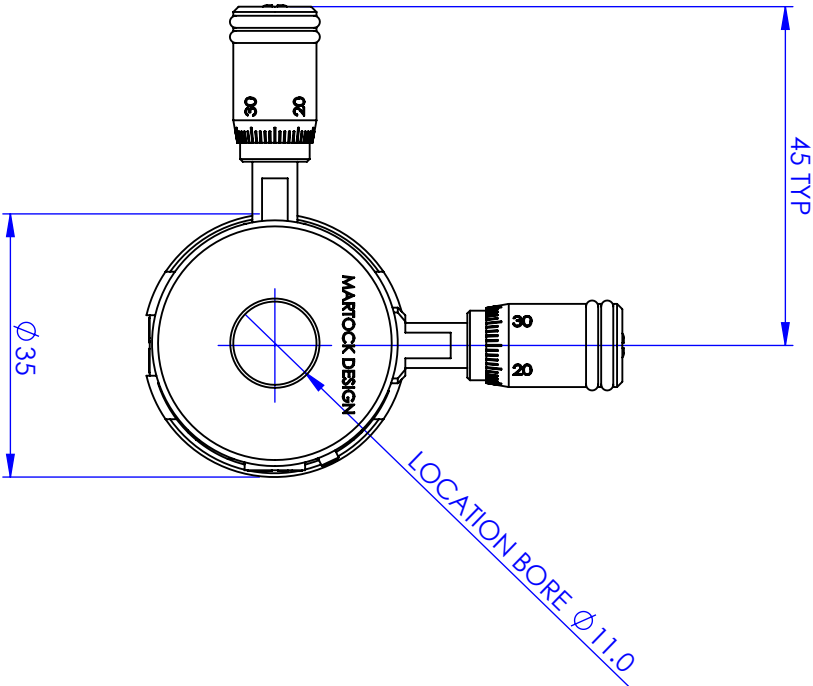
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GENERAL VIEW
SCALE: 1:1

±1mm X & Y TRAVEL
DOVETAIL SLIDES



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

Manual Positioners: Centreing Micropositioners

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



- 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

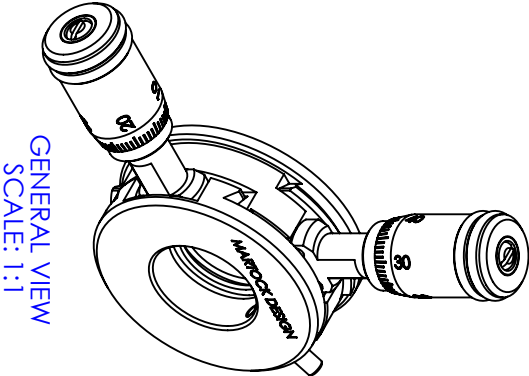
Specifications

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

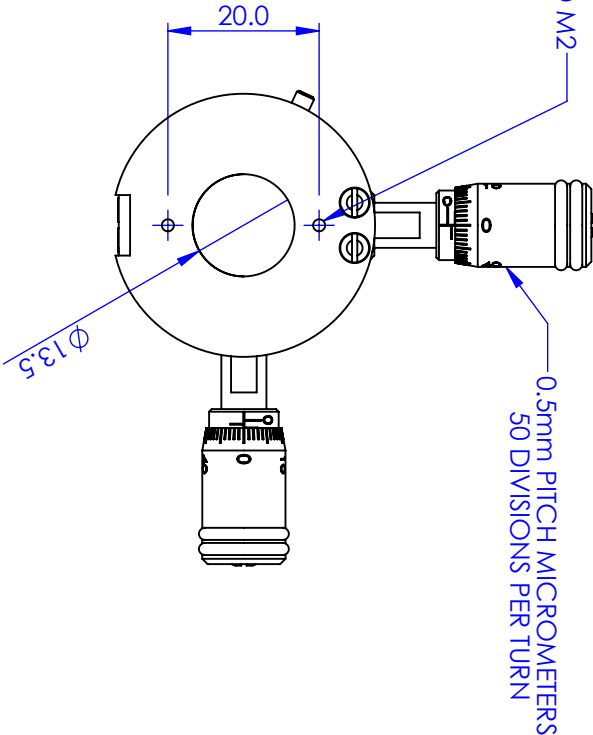
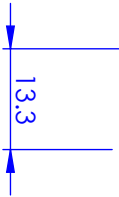
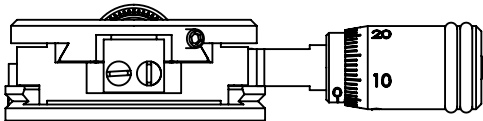
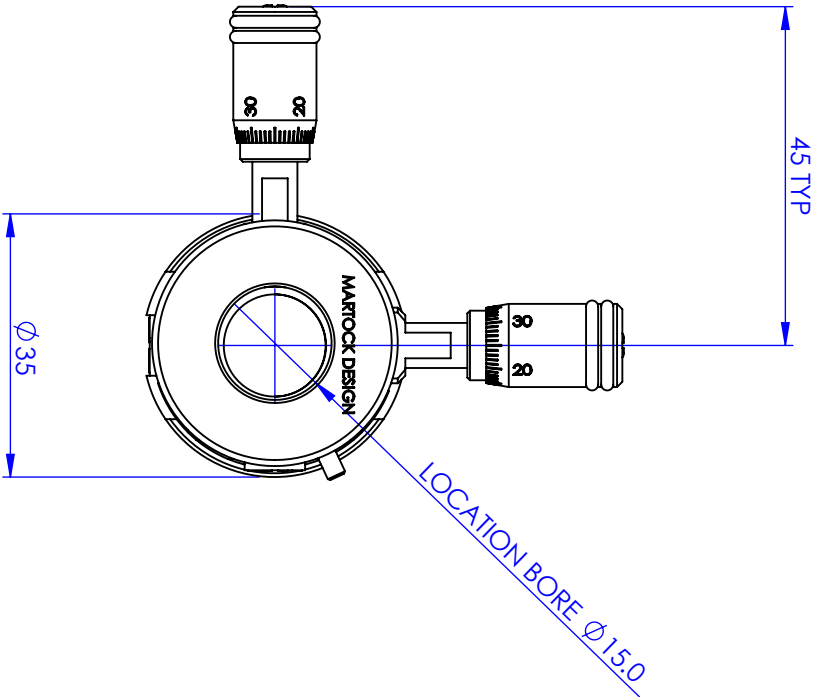
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REV.	DESCRIPTION			

±1mm X & Y TRAVEL
DOVETAIL SLIDES



GENERAL VIEW
SCALE: 1:1



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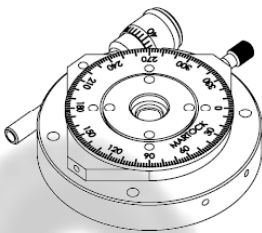
DIMENSIONS ARE IN mm
GENERAL TOLERANCES: ± 0.1
ANGULAR TOLERANCES: ±
SURFACE FINISH:
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AND CORNERS TO BE
REMOVED

AUTHOR		NAME		DATE	
CHECKED		GW		25/05/2010	
FINISH		MATERIAL		TITLE	
---		STAINLESS STEEL AL. ALLOY/AL. BRONZE		ELLIOT Scientific	
DO NOT SCALE DRAWING		SIZE A4		PRECISION XY MICROPOSITIONER	
SCALE: 1:1		DWG. NO. MDE251M-15		THIRD ANGLE PROJECTION	
SHEET 1 OF 1					

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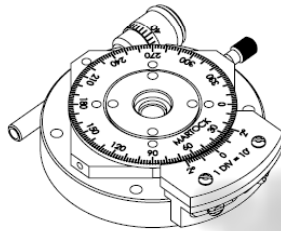
Rotation Stages

M6 CENTRAL BORE



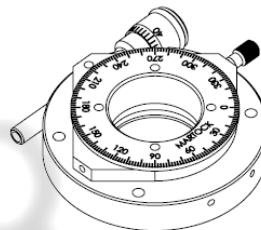
MDE282

M6 CENTRAL BORE
& 10 arcmin VERNIER



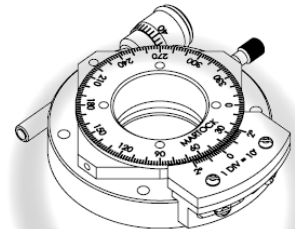
MDE282G

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
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

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.

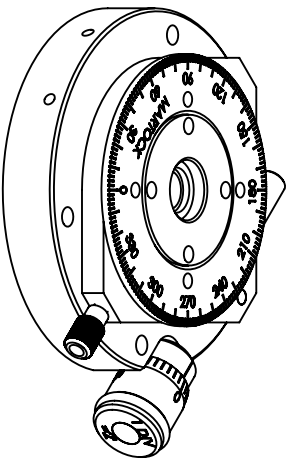
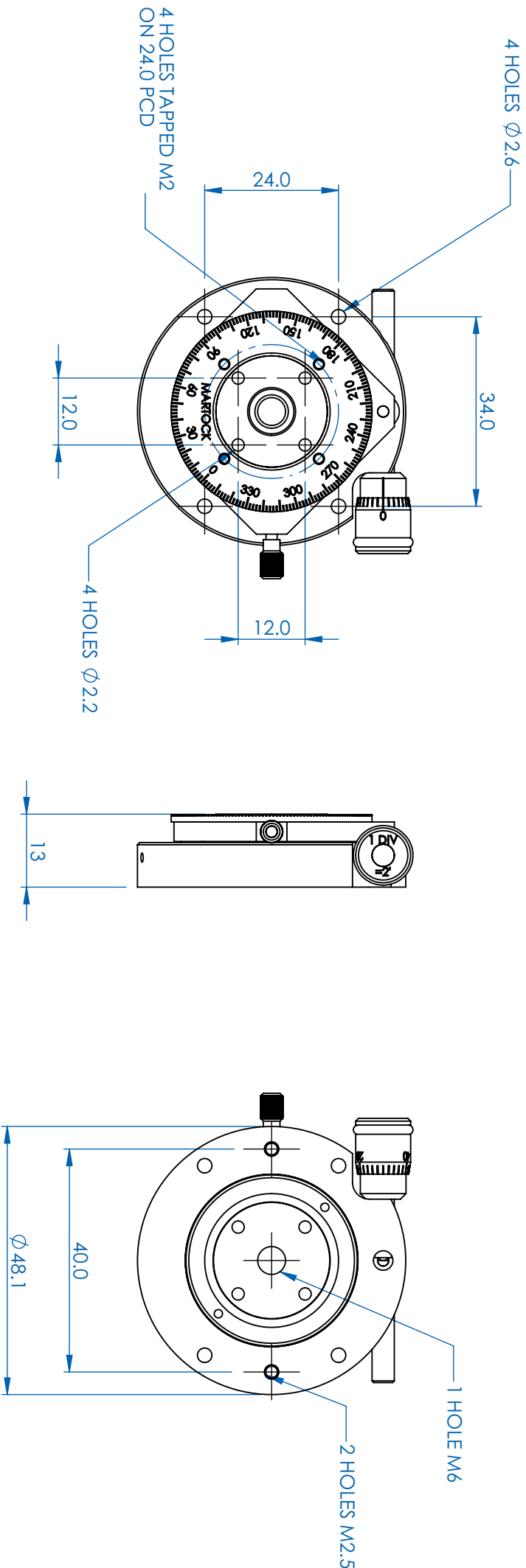
Specifications

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

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1

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MATERIAL		TITLE	
FINISH		ROTATION STAGE	
DO NOT SCALE DRAWING		SIZE A4	
		DWG. NO. MDE282	
		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
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range
- 360° scale with 2° divisions and 10 arc minute vernier

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

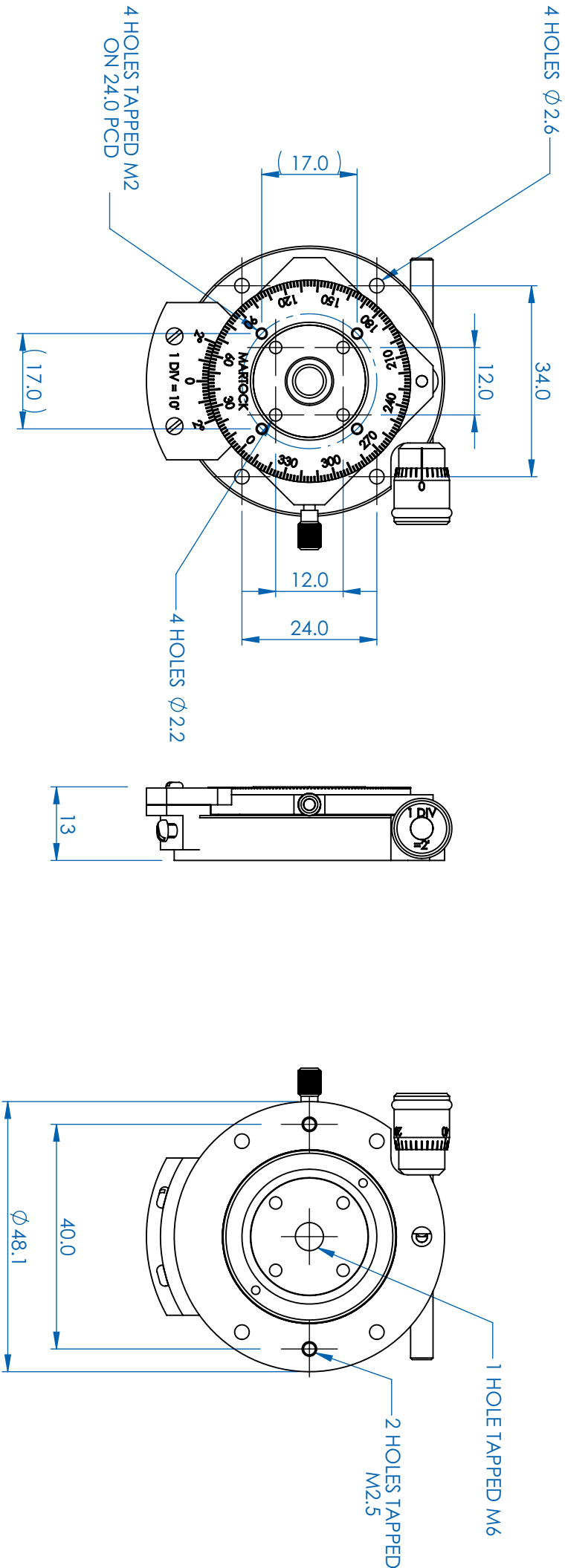
Variants

MDE282: Stage with M6 Tapped Bore

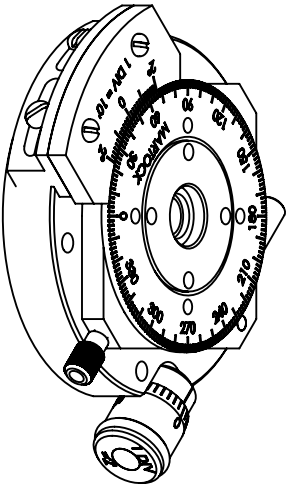
MDE282G: Stage with M6 Tapped Bore & Vernier Scale

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

REVISIONS		DATE	APPROVED
REV.	DESCRIPTION		



GENERAL VIEW
SCALE: 1:1



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ANGULAR TOLERANCES: \pm
SURFACE FINISH:
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NAME	DATE
AUTHOR GW	09/02/2010
CHECKED --	--
MATERIAL	
FINISH	

DO NOT SCALE DRAWING	
TITLE	
ROTATION STAGE	
SIZE A4	DWG. NO. MDE282G
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
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

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	

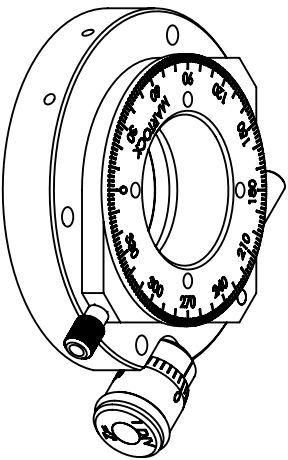
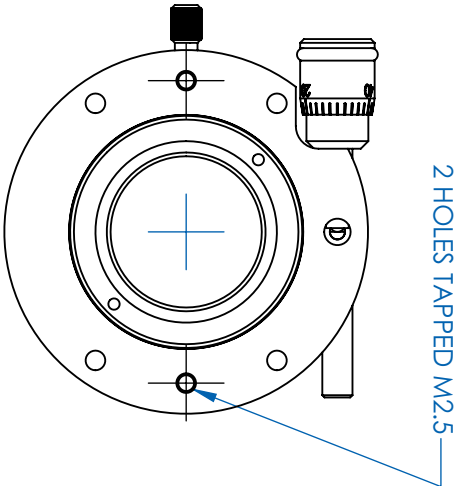
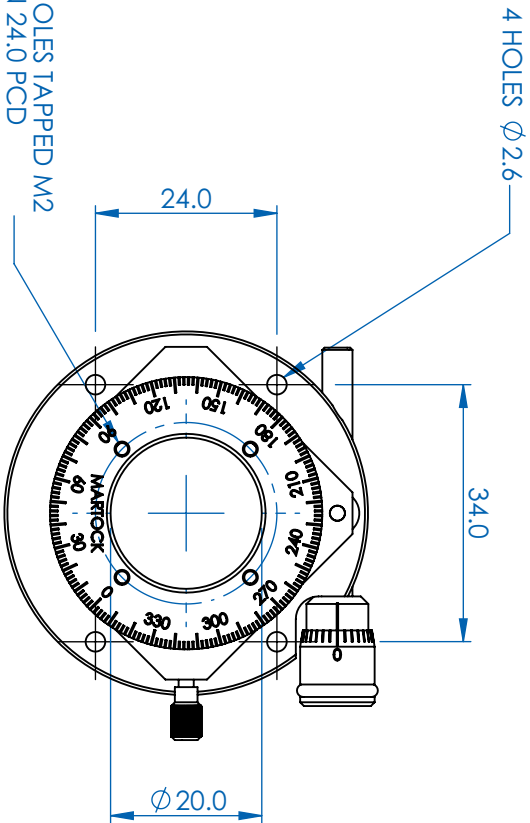
Variants

MDE282: Stage with M6 Tapped Bore

MDE282-20: Stage with 20 mm Clear Bore

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

REVISIONS			DATE	APPROVED
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GENERAL VIEW
SCALE: 1:1

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REMOVED

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AUTHOR	02/06/2010
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MATERIAL	
FINISH	
DO NOT SCALE DRAWING	
TITLE	
ROTATION STAGE	
SIZE	DWG. NO.
A4	MDE282-20
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
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range
- 360° scale with 2° divisions and 10 arc minute vernier

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	

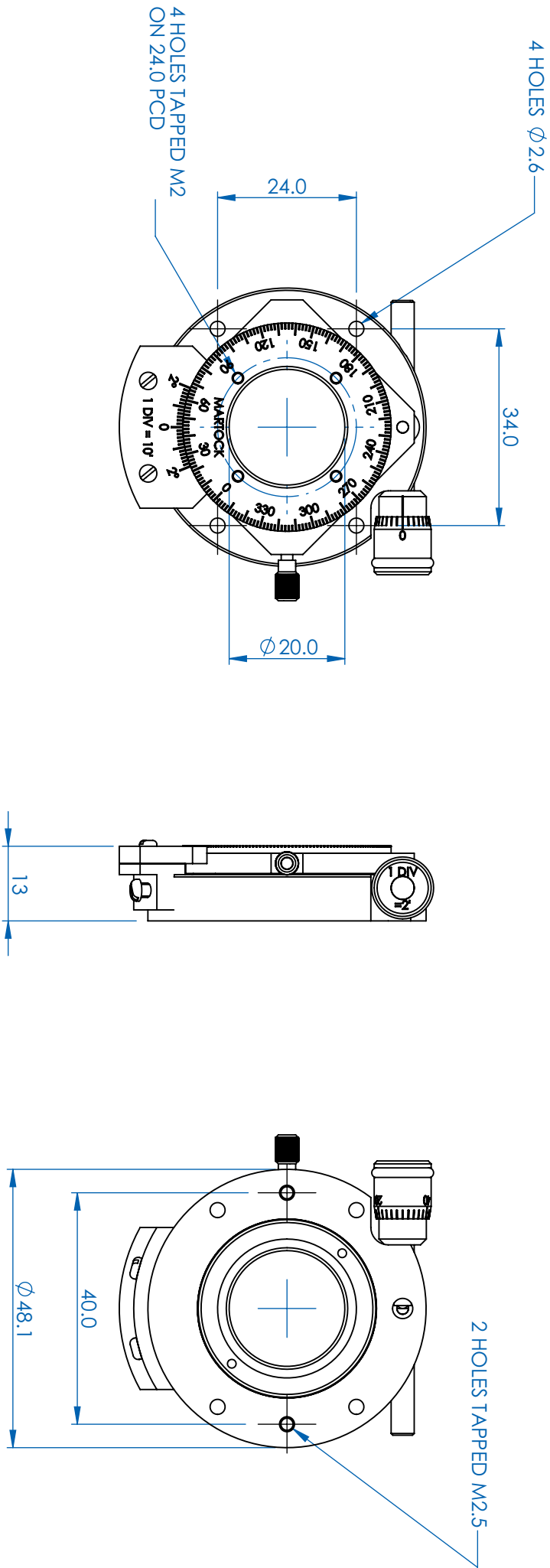
Variants

MDE282: Stage with M6 Tapped Bore

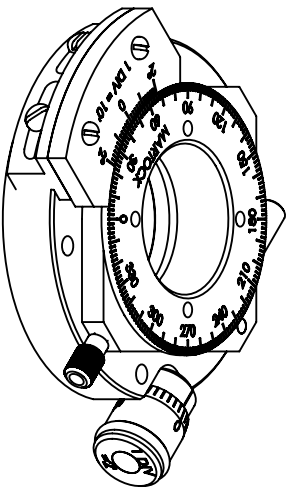
MDE282G: Stage with M6 Tapped Bore & Vernier Scale

MDE282-20: Stage with 20 mm Clear Bore

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GENERAL VIEW
SCALE: 1:1



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MATERIAL				TITLE			
FINISH				ROTATION STAGE			
---				SIZE A4 DWG. NO. MDE282-20G			
DO NOT SCALE DRAWING				SCALE: 1:1 THIRD ANGLE PROJECTION			
				SHEET 1 OF 1			

Manual Positioners: Rotation Stages

MDE283 Very Compact Precision Rotation Stage



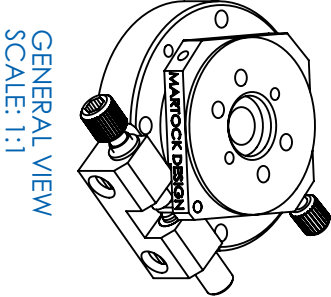
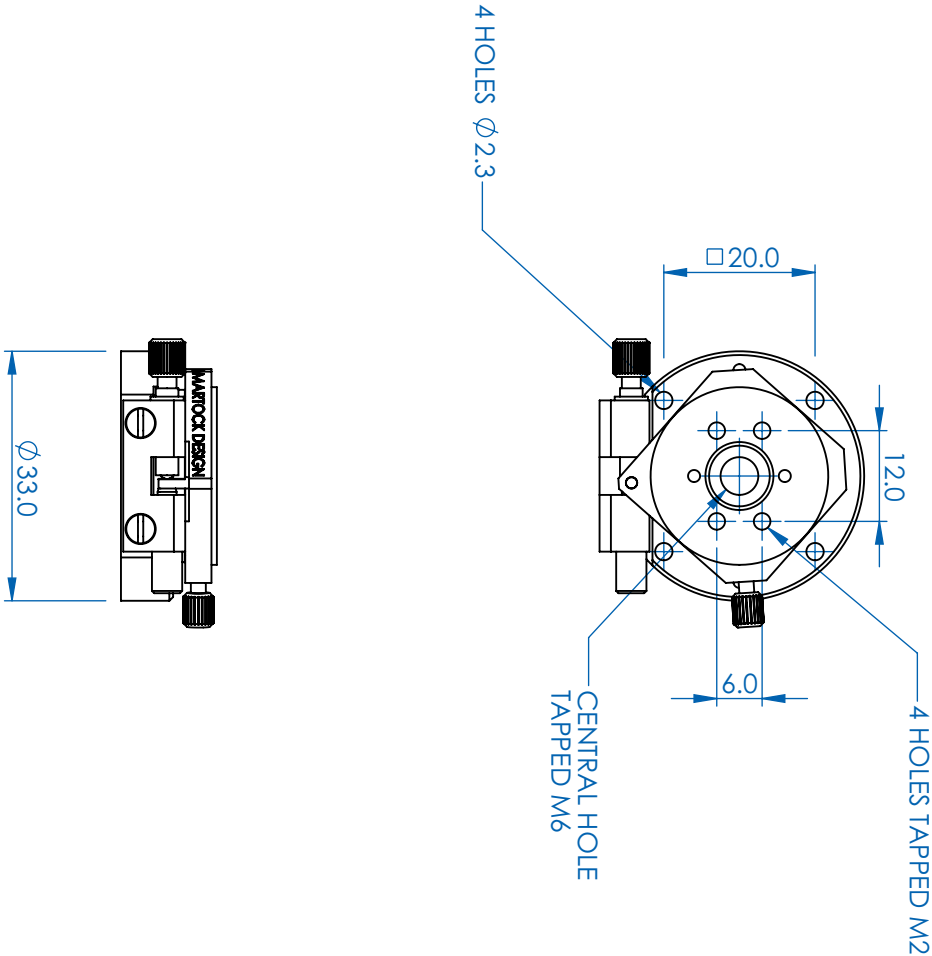
- Very compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

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	

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



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MATERIAL		NAME	DATE
FINISH		AUTHOR	02/06/2010
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DO NOT SCALE DRAWING		SIZE	THIRD ANGLE PROJECTION
A4		DWG. NO.	SHEET 1 OF 1
MDE283			

Elliott Scientific

ROTATION STAGE

Manual Positioners: Rotation Stages

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



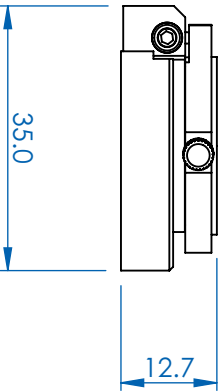
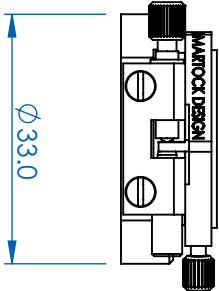
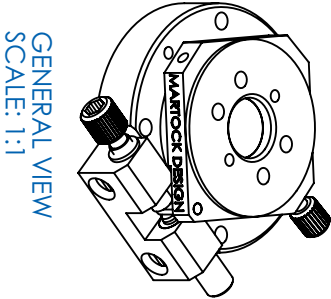
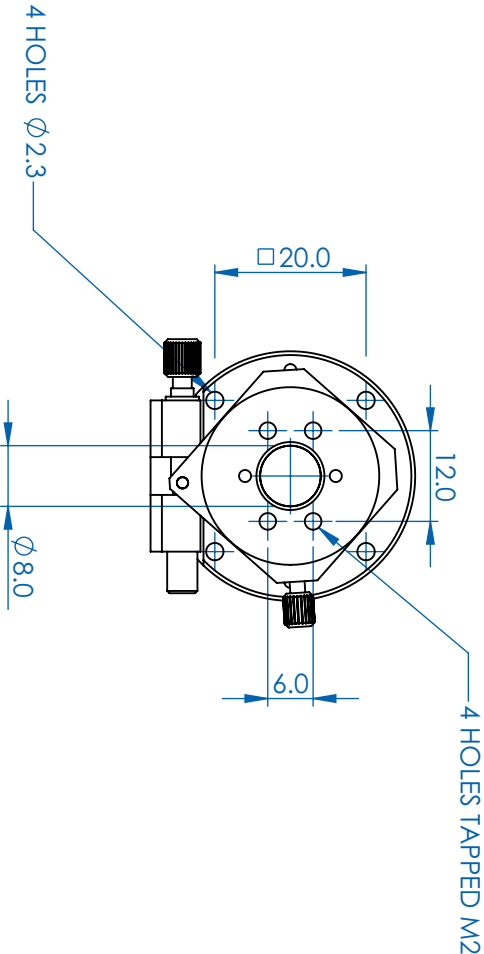
- Very compact
- High precision design
- Stainless steel body
- Resolution 5 arc seconds
- Smooth movement from lapped bearing
- 360° free rotation with clamp screw
- Tangent screw fine adjustment 10° range

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

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



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MATERIAL		NAME	DATE
FINISH		AUTHOR	02/06/2010
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DO NOT SCALE DRAWING		TITLE	
SIZE		ROTATION STAGE	
A4		DWG. NO.	
SCALE: 1:1		MDE283-8	
THIRD ANGLE PROJECTION		SHEET 1 OF 1	

Manual Positioners: Rotation Stages

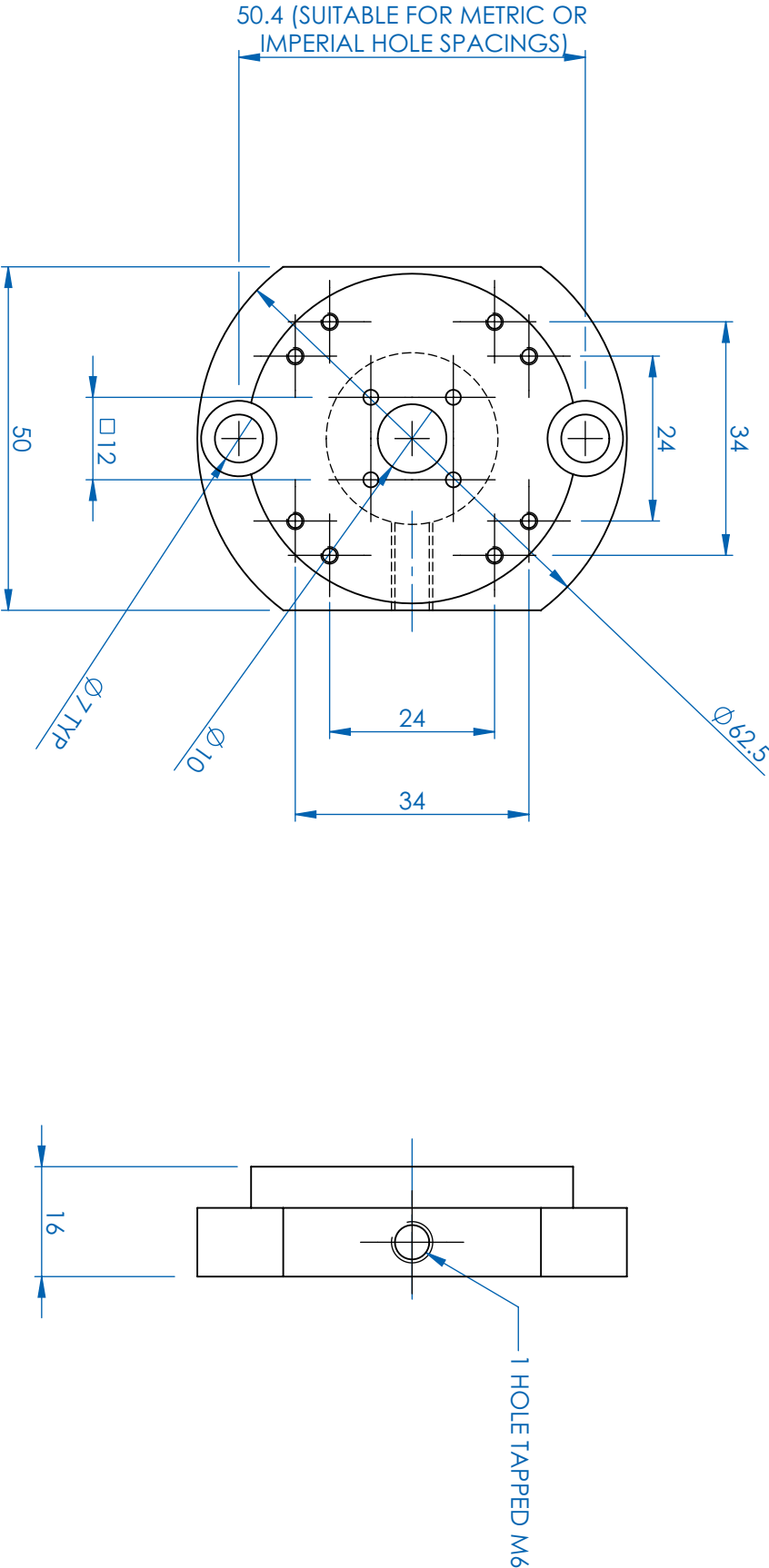
MDE292 Compact Rotation Stage to Optical Table Adapter



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

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

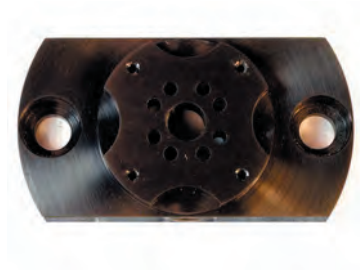
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		TITLE ADAPTOR PLATE	
AUTHOR GW		DATE 02/06/2010	
CHECKED --		--	
MATERIAL		FINISH --	
DO NOT SCALE DRAWING		SIZE A4	
		DWG. NO. MDE292	
		SCALE: 1:1	
		THIRD ANGLE PROJECTION	
		SHEET 1 OF 1	

Manual Positioners: Rotation Stages

MDE293 Very Compact Rotation Stage to Optical Table Adapter

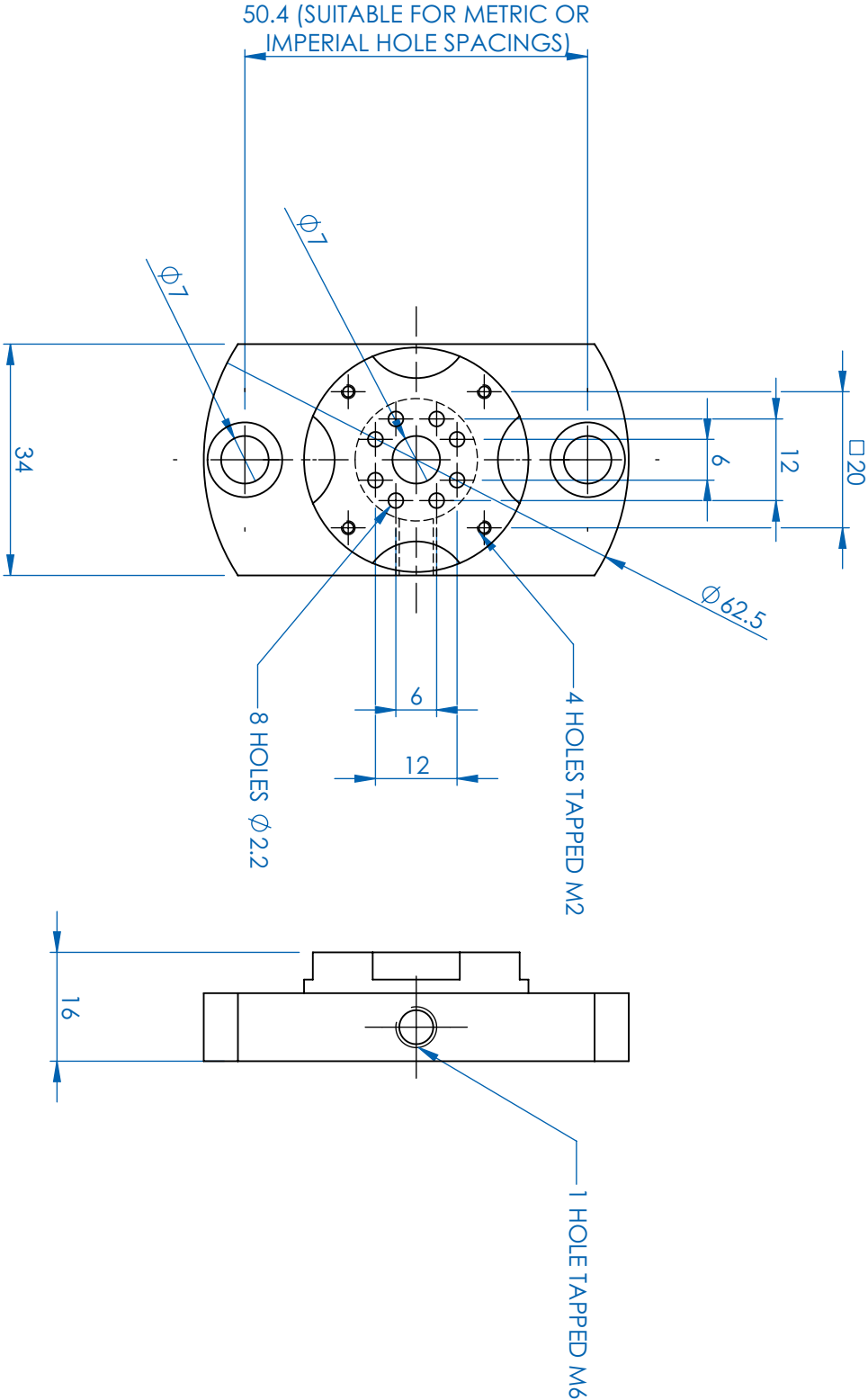


- Mounts stage onto optical table
- Alternative M6 hole for post mounting
- Adapts MDE260 series micropositioners to optical tables



The MDE293 Adaptor Plate allows the mounting of very compact rotation stages and the MDE260 series linear stages onto optical tables or M6 studded posts.

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MATERIAL		---		---	
FINISH		---		---	
DO NOT SCALE DRAWING		SCALE: 1:1		THIRD ANGLE PROJECTION	
SHEET 1 OF 1		ADAPTOR PLATE		MDE293	
SIZE A4		DWG. NO.		MDE293	
TITLE		ADAPTOR PLATE		MDE293	
Eliot Scientific		ADAPTOR PLATE		MDE293	

Manual Positioners: Rotation Stages

MDE859 Rotation Stage to Post Mount Adapter

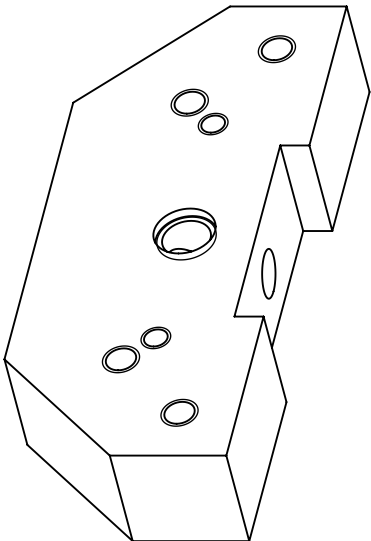


- Post mount stage onto any M4 stud post
- Designed for MDE282 & MDE283 rotation stages
- Allows mounting in vertical or horizontal plane

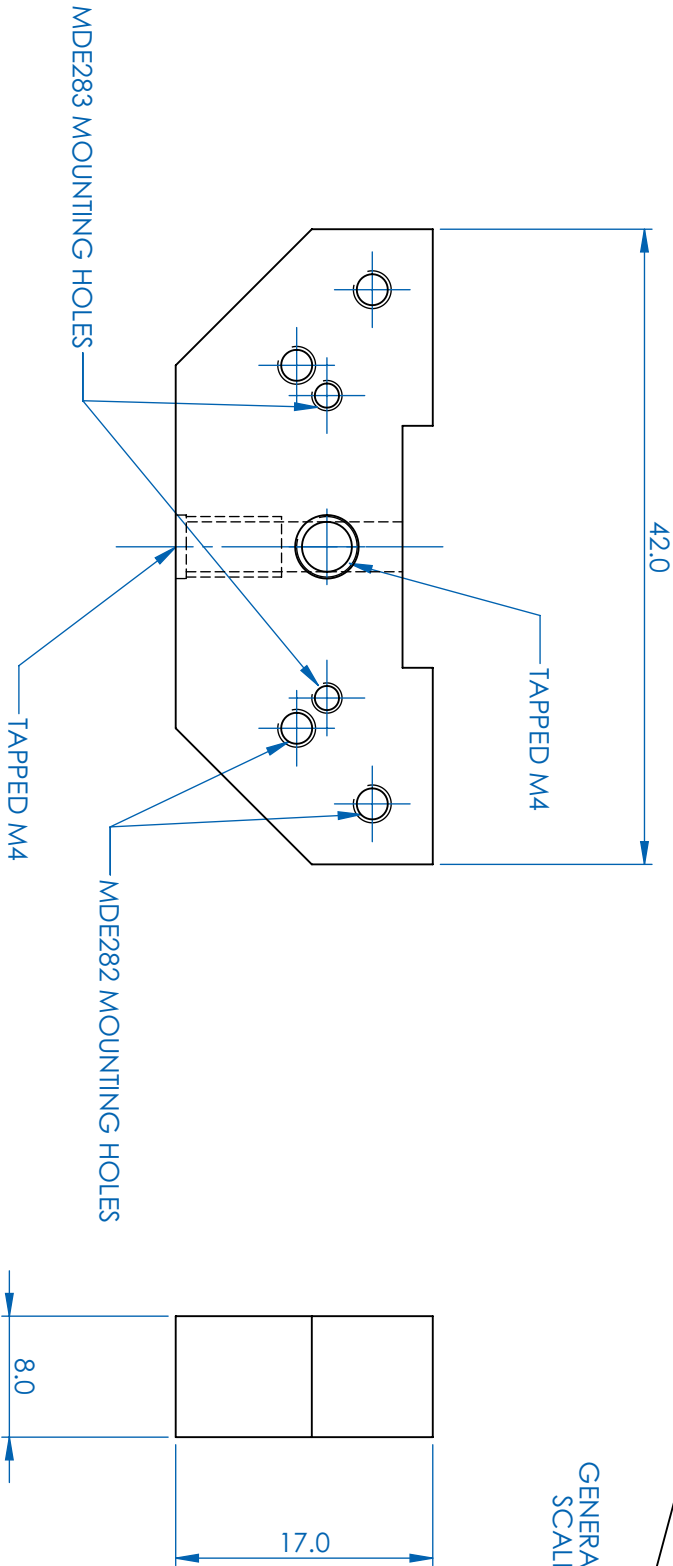


The MDE859 adapter fits both MDE282 and MDE283 Rotation Stages allowing you to mount them onto a post via an M4 stud in the vertical or horizontal plane. The adapter can also be used with FEMTO-BENCH™ accessories.

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GENERAL VIEW
SCALE 2:1



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MATERIAL ALUMINIUM ALLOY		TITLE ROTATION STAGE ADAPTER	
FINISH ANODISED CLEAR		SIZE A4	
DO NOT SCALE DRAWING		DWG. NO. MDE859	
AUTHOR GW		DATE 23/03/2010	
CHECKED -		SCALE2:1	
NAME -		THIRD ANGLE PROJECTION	
DATE 23/03/2010		SHEET 1 OF 1	

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