

Mini Rail System Ball Slide Positioners

7T8-01 • 7T8-02



The Mini Rail System Ball Slide Positioners **7T8-01** and **7T8-02** have travel range of **5 mm**. Using a micrometer driving screw mounted into **M10x1** tapped hole, resolution of **10 µm** is achieved. Positioners have clamps for mounting onto Steel Optical Rail System rails and can be locked in position using a fixing screw. With help of Rail Carriers the Mini Rail System Ball Slide Positioner **7T8-01** can be coarsely positioned in a range of **30 mm**. Two **7T8-01** and one **7T8-02** can be stacked to X-Y-Z directly. Article **Optical Rail System 10ORS6** provides examples of use of 7T8-01 and 7T8-02 positioners (page 10-17).

SPECIFICATIONS

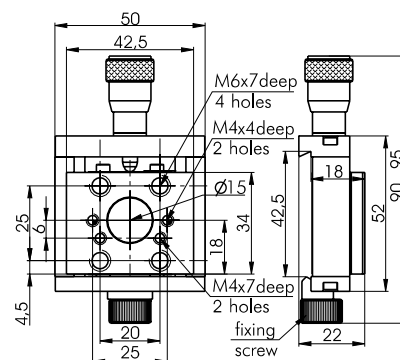
Precision travel range	5 mm
Rough XY travel range	±20 mm
Sensitivity	1 µm
Tracking accuracy	2 µm
Reading accuracy	5 µm (half division)
Load capacity:	
Horizontal	3 kg
Vertical	1 kg
Weight:	
7T8-01	0.18 kg
7T8-02	0.23 kg

Optical Rails **2OR6-55** or **2OR6-55T** can be used as base plates for stacking translation stages **7T8-01** and **7T8-02** to STANDA optical tables or to other stages.

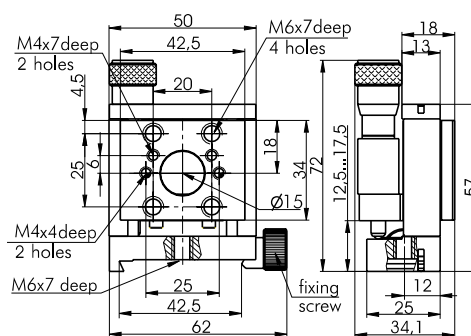
7T8XYZ



You may stack the stages for X-Y-Z applications directly, **without screws**. Default base plate choice for 7T8XYZ is **2OR6-55** or **2OR6-55T** optical rail.



7T8-01



7T8-02



Steel Optical Rail
2OR6-55T

Steel Optical Rail
2OR6-270

2OR6-55
Steel Optical Rail

Vertical Translation Stage
7T8-02

Mounting Post
3MP

Post Holder
3PH

Base Plate
3BP4-02



Aluminium Translation Stages Narrow (30 mm)

7T173

- 10, 20, 50 mm travel ranges
- Optional travel: 5, 6, 25, 30 mm
- Stackable for compact X-Y-Z configuration
- Custom angle brackets are made promptly
- Driving micrometer screw
- Precise ball bearing
- Material: black anodized aluminium



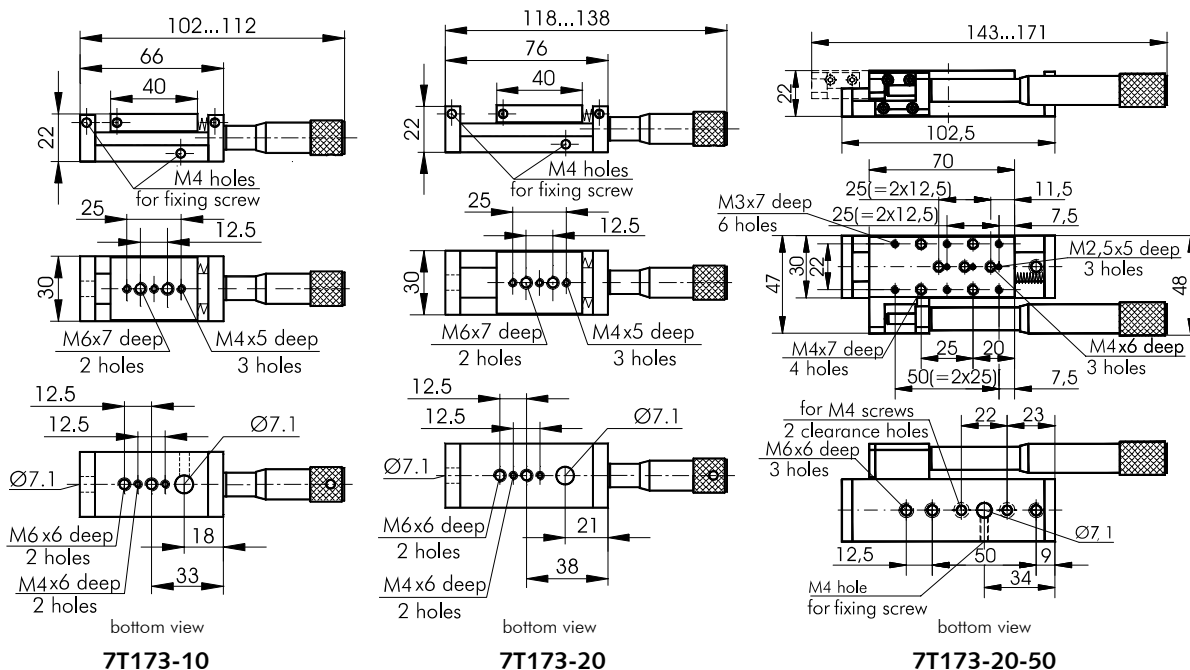
Stages **7T173** provide manual linear motion.

Our standard micrometers **9S75M** are used as driving screws. Customer may specify other screws, e.g. with non-matching travel range to save space.

A platform is spring preloaded against the driv-

ing screw to provide high resolution, low backlash, smooth and accurate motion.

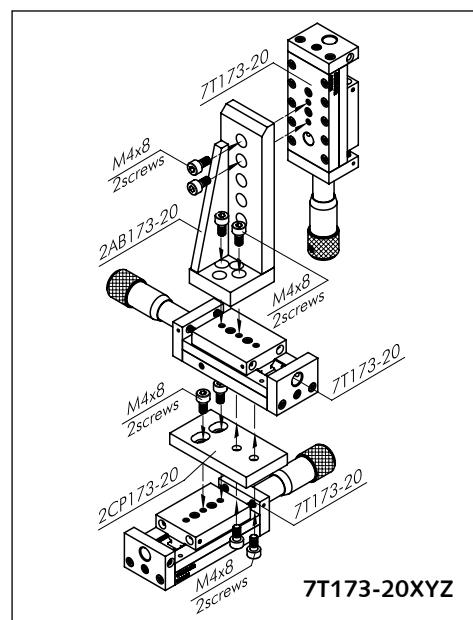
An array of mounting holes on a platform and on a base provide a variety of convenient mounting options, including mounting on **3MP** series **Posts**.



SPECIFICATIONS	7T173-10	7T173-20	7T173-20-50
Travel range	10 mm	20 mm	50 mm
Sensitivity	1 µm	1 µm	1 µm
Tracking accuracy	2 µm	2 µm	2 µm
Reading accuracy (½ division)	5 µm	5 µm	5 µm
Load capacity:			
Horizontal	10 kg	10 kg	10 kg
Vertical	5 kg	5 kg	5 kg
Weight	0.16 kg	0.2 kg	0.31 kg
Assemblies:			
X-Y	2CP173-20	directly	
Z	2AB173-20	2AB173-20-50	



2CP173-20
connecting plate for stacking
the narrow stages in X-Y motion



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e-mail: sales@standa.it

Fax: + 370-5-2651483

Phone: + 370-5-2651474

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Optical
Tables

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Brackets
& Rails

2

Base
Mounts &
Accessories

3

Optical
Mounts

4

Optical
Positioners

5

Base
Positioners

6

Translation &
Rotation
Stages

7

Motorised
Positioners &
Controllers

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Fine
Adjustment
Screws

9

Opto-
Mechanics &
Sets

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Light Test &
Measurement
Instruments

11

Lasers &
Accessories

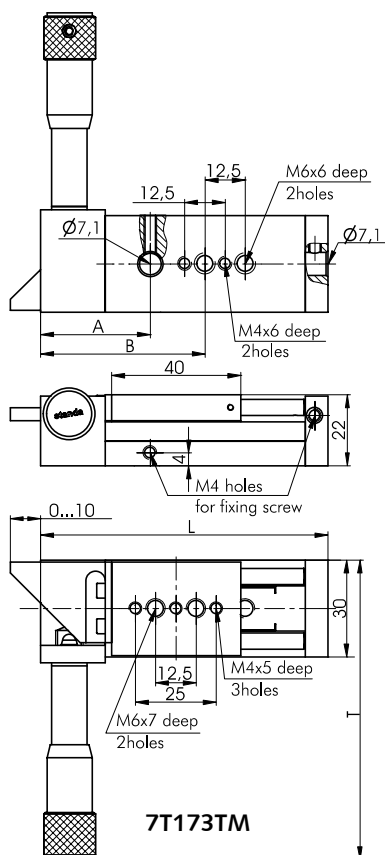
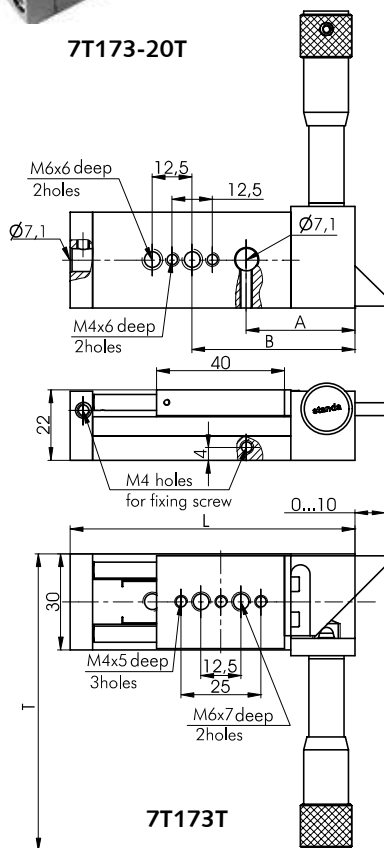
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Side Control Linear Stages

7T173T



7T173-20T



- 10, 20 mm travel ranges
- Side Control Linear Stage
- Driving micrometer screw
- Precise ball bearings
- Compact XYZ configuration with all screws from one side
- Right Hand 7T173TM and Left Hand 7T173T versions are available

Side control linear translation stages are equipped with 9S75M series micrometer screws and provide convenient control in limited space setups. Both left-hand (7T173T series) and right-hand (7T173TM series) versions are available. These stages can be used in multi-axis combinations and are compatible with 7T173 series stages. In dense optical schemes with limited access to multi-axis stages you have a possibility to control all three axes from one side.

Model	A, mm	B, mm	L, mm	T, mm
7T173-10T	31	46	79	67-77
7T173-10TM	31	46	79	67-77
7T173-20T	34	51	89	74-94
7T173-20TM	34	51	89	74-94

SPECIFICATIONS	7T173-10T 7T173-10TM	7T173-20T 7T173-20TM
Travel range	10 mm	20 mm
Sensitivity	1 µm	1 µm
Tracking accuracy	2 µm	2 µm
Reading accuracy	5 µm	5 µm
	(½ division)	(½ division)
Load capacity:		
Horizontal	10 kg	10 kg
Vertical	5 kg	5 kg
Weight	0.18 kg	0.23 kg
Assemblies:		
X-Y	2CP173-20	
Z	2AB173-20	



Similar Products

7T273-10T



7T164-10T



Narrow Translation Stage

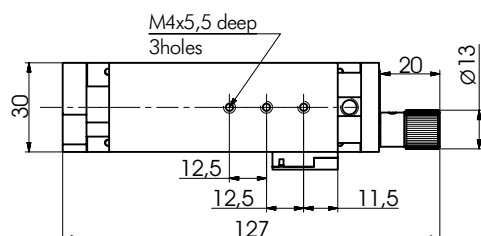
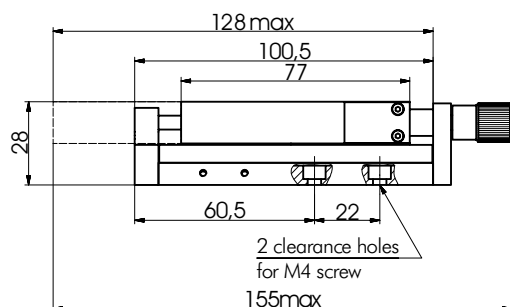
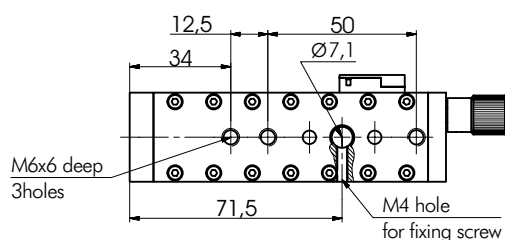
7T30-50



NEW

- 50 mm travel range
- Precise ball bearing
- Narrow and low-profile
- Lead screw pitch 0.25 mm
- Stackable compact X-Y-Z configuration

Narrow translation stage 7T30-50 is a manual modification to the newly developed **motorized stage 8MT30-50**, which incorporates all the improvements and modifications implemented since its predecessor 8MT173-20-50 was launched. **7T30-50** boasts possibility to operate in any orientation, which means that the stage can be hung upside-down or be operated vertically with platform facing upward or downward. Durability of stage was taken seriously into consideration and now you can apply grease directly to the screw without disassembling the stage. **Vertical load capacity** is increased to **5 kg**. Stage is **spring preloaded** to eliminate **backlash**. Design of 7T30-50 ensures more stable and precise motion over full translation range. An array of mounting holes on a platform and on a base allow a variety of convenient mounting options, including mounting on 3MP series Posts. For **vertical (Z axis)** mounting we offer **angle bracket 2AB173-20-50**. Angle brackets of custom design can be manufactured on request. **Body** and **platform** of **7T30-50** are **made of black finished aluminum**. **Functional parts** are **made of steel**.



SPECIFICATIONS

Travel range	50 mm
Sensitivity	2.5 μm
Tracking accuracy	2 μm
Lead screw pitch	5 mm
Load capacity:	
Horizontal	10 kg
Vertical	5 kg
Weight	0.25 kg
Assemblies:	
X-Y	2CP173-50-20
Z	2AB173-20-50



3UBP-04

Universal Base Plates are designed for attaching translation stage to STANDA optical tables or to another stages

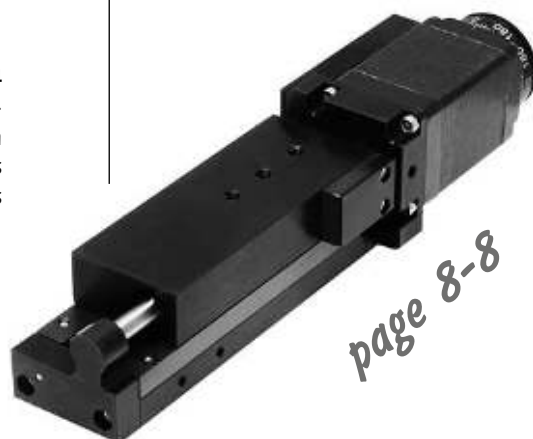


2AB173-20-50

Angle Bracket is used to fix stages in Z configuration

2CP173-50-20

connecting plate for stacking
the narrow stages in X-Y motion



page 8-8

8MT30-50

Aluminium Translation Stages Medium Width (50 mm)

7T175

7T175-50

7T175-100

7T175-150

- 50, 100, 150 mm travel ranges
- Stackable for X-Y-Z configuration
- Custom angle brackets we make promptly
- Convenient patterns of mounting holes
- Precise ball bearings
- Material: black anodized aluminium

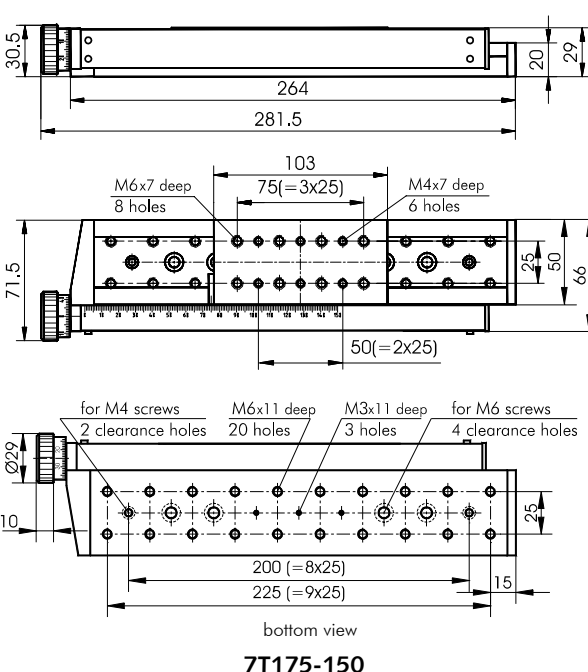
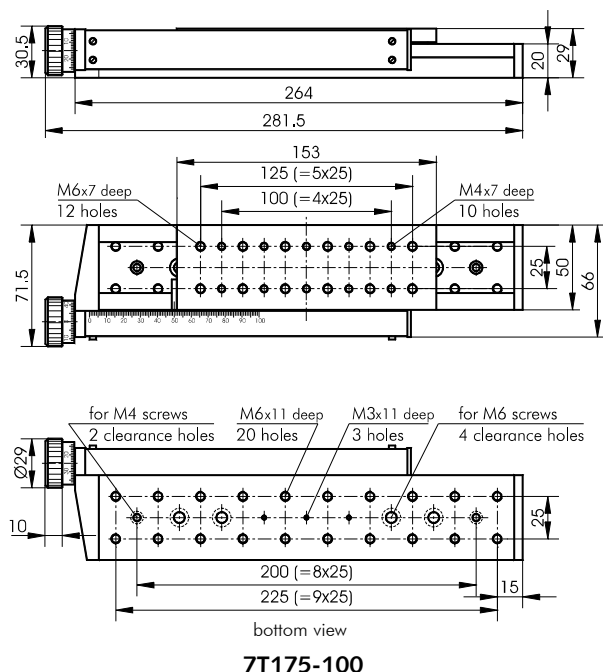
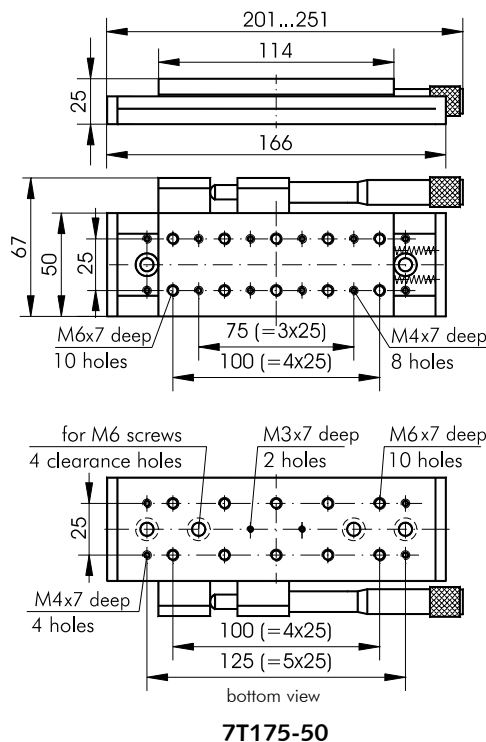
7T175-50 uses **9S75M** micrometer as a driving screw. The platform is spring preloaded against the screw.

7T175-100 and **7T175-150** use their own integrated driving screws. The screw has a micrometric scale (on the body and knob). The pitch of the screw is **0.5 mm**. Custom pitch and gears are available on request.

The platform of **7T175-100 (-150)** is preloaded by a collar of our original design on the screw, rendering an increased load capacity, stability, and reduced backlash.

SPECIFICATIONS

	7T175-50	7T175-100	7T175-150
Travel range	50 mm	100 mm	150 mm
Sensitivity	1 μ m	1 μ m	1 μ m
Tracking accuracy	2 μ m	2 μ m	2 μ m
Reading accuracy	10 μ m	10 μ m	10 μ m
Load capacity:			
Horizontal	40 kg	40 kg	40 kg
Vertical	9 kg	20 kg	20 kg
Weight	0.74 kg	1.24 kg	1.15 kg
Assembles:			
X-Y		directly	
Z		2AB175	



Aluminium Translation Stages Low Profile

7T167

- Precision movement
- 25 mm, 50 mm travel range
- Stackable for multi-axis positioning
- Reversible for left or right hand applications
- 2 inches (Ø50 mm) clear aperture
- Insert platform with M6, M4 and clearance holes

7T167-25



7T167-50

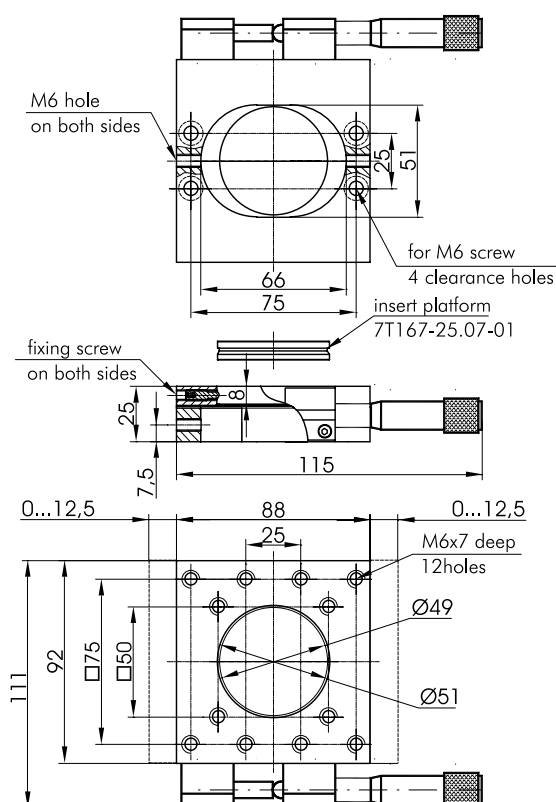
Low Profile Aluminium Translation Stages 7T167 provide single axis movement.

Items are fixed on a platform by **M6** tapped holes. **7T167-50** has **M4** holes in addition.

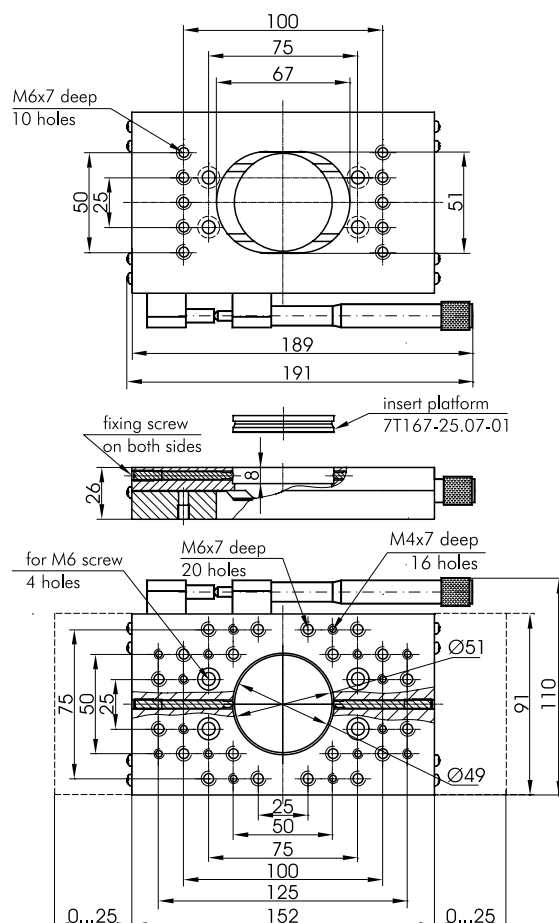
7T167S models are made with solid platform.

The stages **7T167** have a central **Ø50 mm (2 inch)** clear aperture, which remains unobstructed over some **15 mm** of travel. You close the aperture with an insert platform – laid against the resting flange. The insert platform provides **additional mounting** holes, which you can rotate. It is locked by two fixing screws.

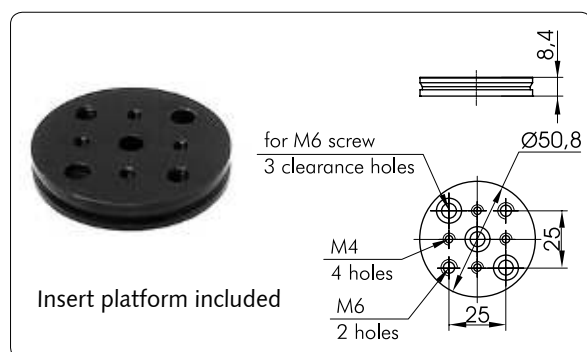
Angle brackets **2AB167-25, -50** tie the stages **7T167** in **X-Y-Z** translation systems.



7T167-25



7T167-50



Insert platform included

SPECIFICATIONS	7T167-25	7T167-50
Travel range	25 mm	50 mm
Sensitivity	1 µm	1 µm
Reading accuracy	5 µm (½ division)	5 µm (½ division)
Load capacity:		
Horizontal	16 kg	16 kg
Vertical	7 kg	7 kg
Weight	0.5 kg	1.2 kg
Assemblies:		
X-Y	directly	directly
Z	2AB167-25	2AB167-50



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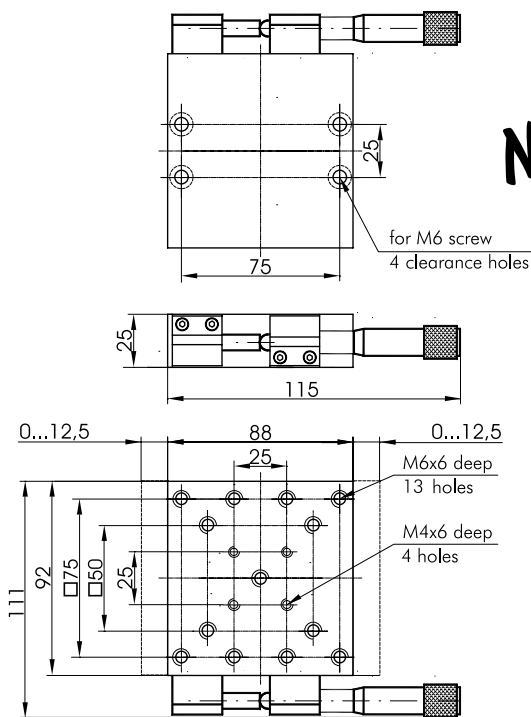
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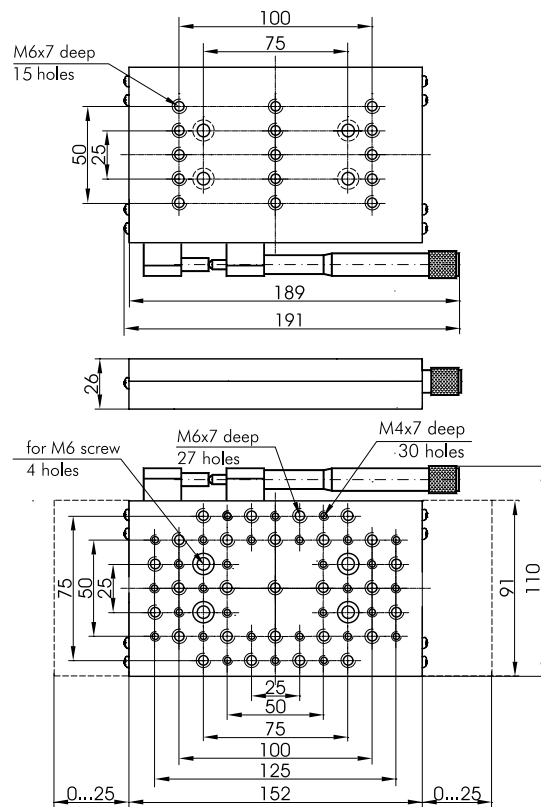
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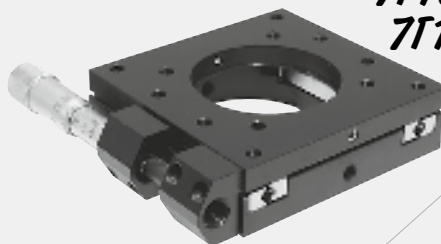


7T167S-25

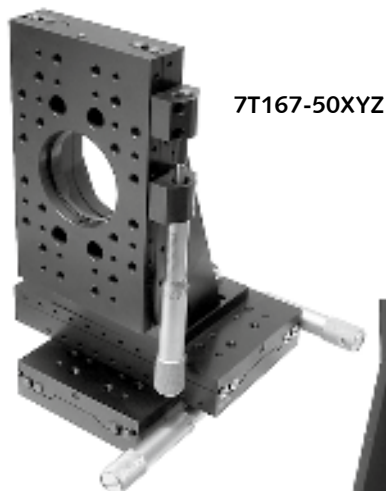
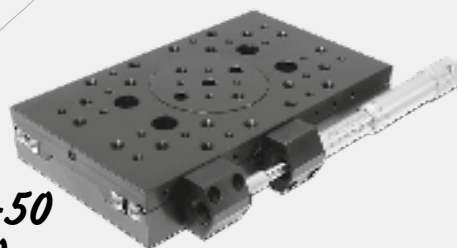


7T167S-50

Available "right-hand" version
7T167MS-25
7T167M-25



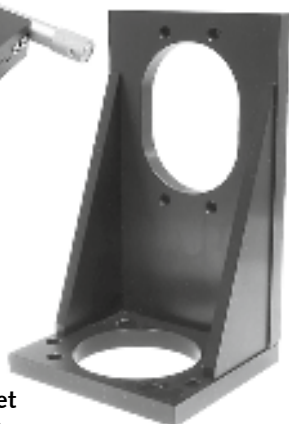
7T167MS-50
7T167M-50
Available "left-hand" version



7T167-50XYZ

7T167-50 stacked
in XYZ using
2AB167-50 angle
bracket

Angle Bracket
2AB167-50



Motorized versions with
different motors are in
section 8



8MT167-25BS1



8MT167-100DCE

Translation Stage

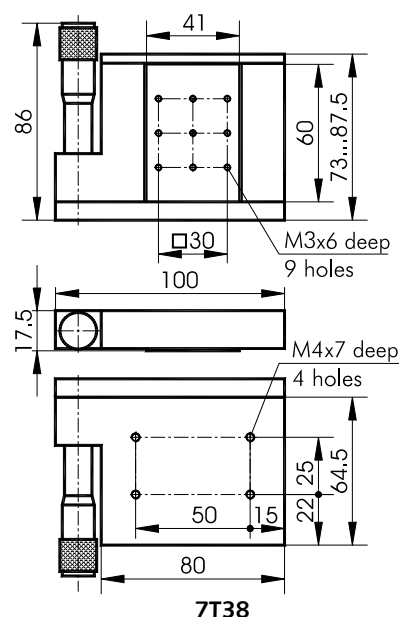
7T38



- Micrometer drive
- X-Y-Z configuration available

SPECIFICATIONS

Travel range	15 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Scale graduation	10 μ m
Load capacity	
Horizontal	10 kg
Vertical	5 kg
Weight	0.41 kg



7T38

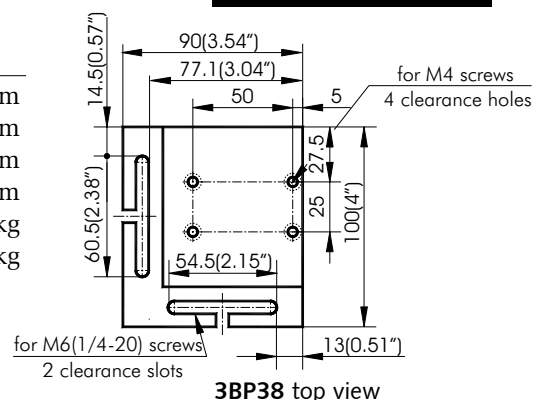
Translation Stage

for METRIC and INCH

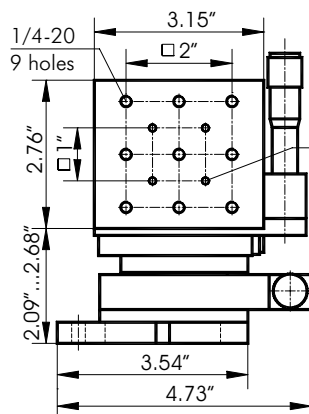


SPECIFICATIONS

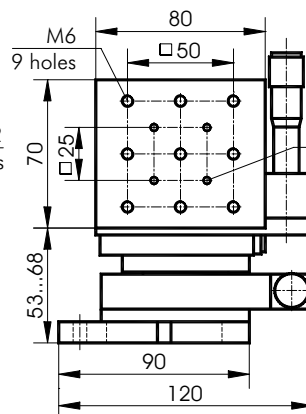
Travel range	15 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Scale graduation	10 μ m
Load capacity	5 kg
Weight	1.35 kg



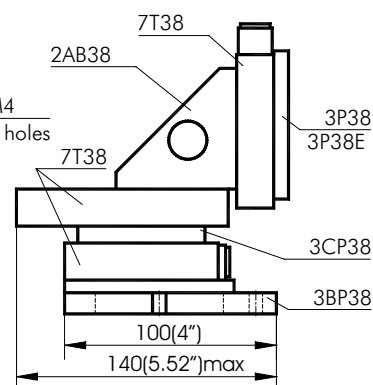
3BP38 top view



7T38EXYZ



7T38XYZ



ORDERING INFORMATION

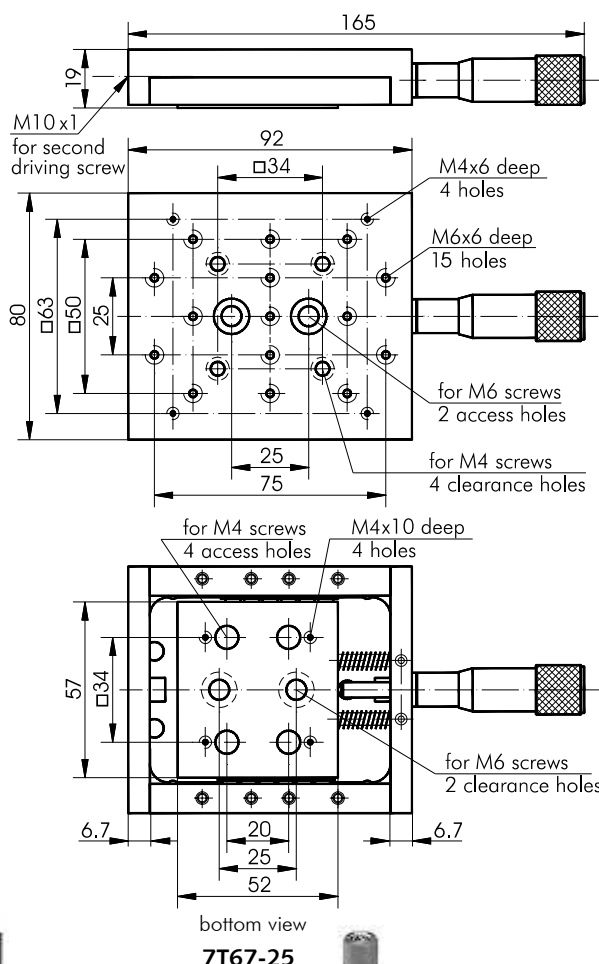
7T38XYZ (for Metric)	7T38EXYZ (for Inch)	7T38XY
stage is assembled of these components:		
7T38 – 3 pieces,	7T38 – 3 pieces,	7T38 – 2 pieces,
3P38 – 1 piece,	3P38E – 1 piece,	3P38 – 1 piece,
2AB38 – 1 piece,	2AB38 – 1 piece,	3BP38 – 1 piece.
3CP38 – 1 piece,	3CP38 – 1 piece,	
3BP38 – 1 piece.	3BP38 – 1 piece.	

Stable Steel Translation Stage

7T67-25



- Solid box design
- 25 mm travel range
- Variety of mounting holes and options
- Easily stacked in X-Y configuration
- For Z axis add 2AB67-25
- Large mounting surface
- Made of steel



Stable Steel Translation Stages 7T67-25 have large mounting surface, great travel range for this relatively small size, low profile, and increased stability and precision. Box design reinforces the stage, reducing flex. Steel, as a material, adds to stability.

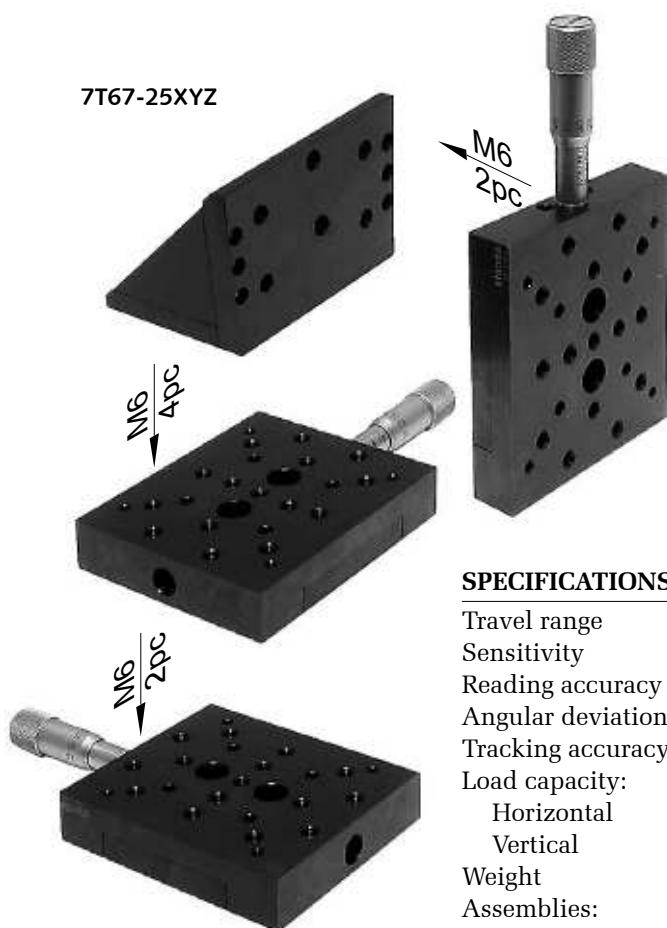
You can mount a second driving screw on the other end (to lock the platform in fixed positioning applications).

The platform is preloaded by springs.

The stages can be **stacked immediately** to other units, or to their own type (e.g. in **X-Y** configuration). The stages can be used upside-down. For immediate attachment the **base** has **2 clearance** holes for **M6** screws. Similarly, the **platform** has **4 clearance** holes for **M4** screws. Slip the screws from top or under through the **access** holes in a platform/base.

Micrometer 9S75M-25 comes as standard. The stage has black anodized finish.

7T67-25XYZ



SPECIFICATIONS

Travel range	25 mm
Sensitivity	1 μ m
Reading accuracy	10 μ m
Angular deviation	<200 μ Rad
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	20 kg
Vertical	5 kg
Weight	0.78 kg
Assemblies:	
X-Y	directly
Z	2AB67-25

7T67SSV-25XYZ

ORDERING INFORMATION

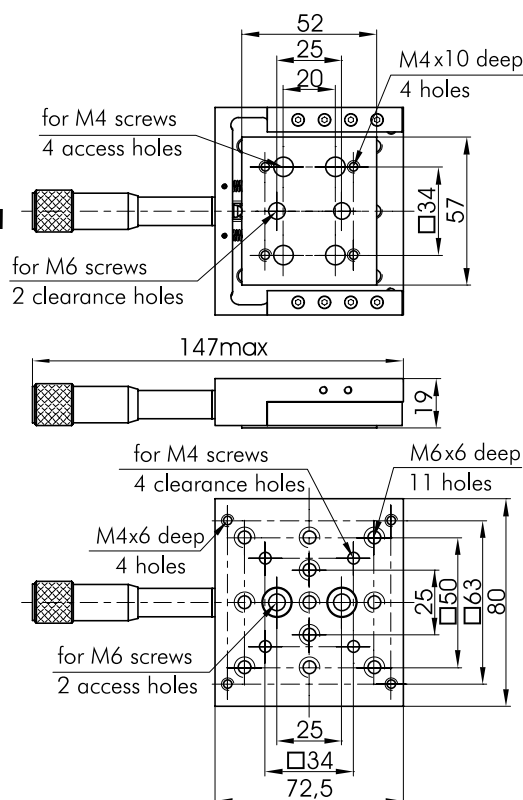
7T67-25	steel version
7T67-25XYZ	
7T67SS-25	stainless steel
7T67SS-25XYZ	version
7T67SSV-25	version
7T67SSV-25XYZ	for vacuum

Low Cost Linear Translation Stage

7T68-25



- Solid box design
- 25 mm travel range
- Variety of mounting holes and options
- Easily stacked in X-Y configuration. For Z axis add 2AB67-25-AL
- Large mounting surface
- Made of aluminium



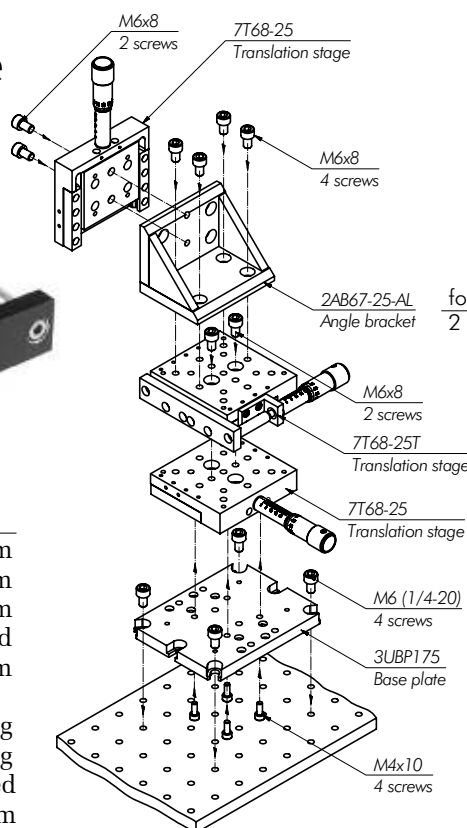
SPECIFICATIONS

Travel range	25 mm
Sensitivity	1 μ m
Reading accuracy	10 μ m
Angular deviation	<200 μ Rad
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	20 kg
Vertical	5 kg
Material	black anodized aluminium
Weight	0.4 kg
Assemblies:	
X-Y	directly
Z	2AB67-25-AL

Low Cost Linear Translation Stage

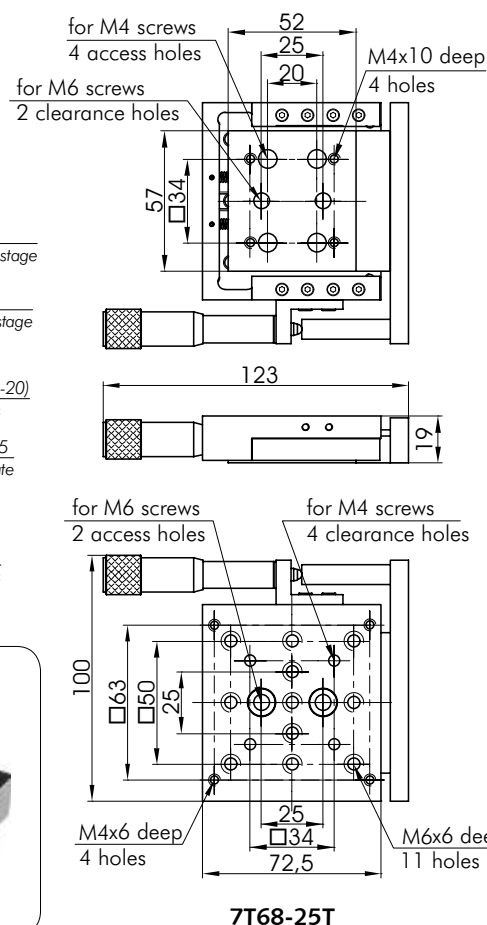
7T68-25T

7T68-25TM



SPECIFICATIONS

Travel range	25 mm
Sensitivity	1 μ m
Reading accuracy	10 μ m
Angular deviation	<200 μ Rad
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	20 kg
Vertical	5 kg
Material	black anodized aluminium
Weight	0.4 kg
Assemblies:	
X-Y	directly
Z	2AB67-25-AL



*Right hand version
7T68-25TM available*



Stable Stainless Steel Linear Stage

7T67-6

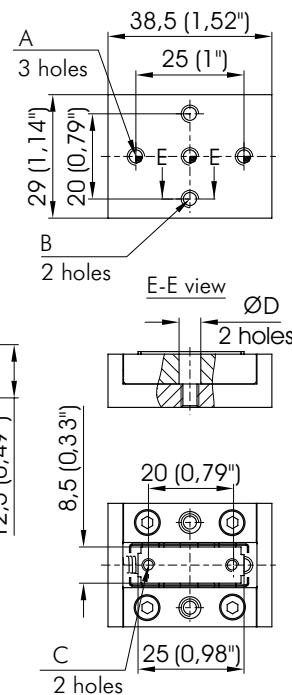
- Miniature
- Solid box design
- 6 mm travel range
- Compact design
- Large mounting surface
- Easily stacked in X-Y configuration
- Made entirely of stainless steel – easily adapted for vacuum applications

Stable Steel Translation Stages 7T67-6 and 7T67E-6 have low profile, and increased stability and precision.

Box design reinforces the stage, reducing flex. Steel, as a material, adds to stability. The platform is preloaded by springs.

The stages can be **stacked immediately** to other units, or to their own type (e.g. in X-Y configuration). The stages can be used upside-down.

The stages are entirely made of **stainless steel**.



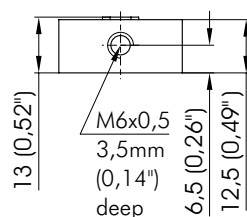
7T67E-6 and 7T67-6



7T67-6-9S35M-5

SPECIFICATIONS

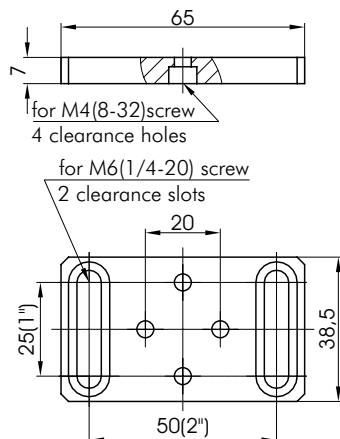
Travel range	6 mm
Sensitivity	1 μ m
Reading accuracy	10 μ m
Angular deviation	<150 μ Rad
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	45 kg
Vertical	3 kg
Weight	0.1 kg



7T67-6, 7T67E-6



7T67-6-9SH137ML


3BP67-6 Base Plate
(or 3UBP series base plates)

fixing nut
7T67-6-9SH137MN

Dimension	7T67E-6 (imperial)	7T67-6 (metric)
A	#8-32x0,11" deep	M4x3 deep
B	#8-32x0,19" deep	M4x5 deep
C	#4-40x0,23" deep	M3x6 deep
D	0,2x0,27" deep	6x7 deep

ORDERING INFORMATION

7T67-6 – model of **metric** dimensions – the **standard** version.

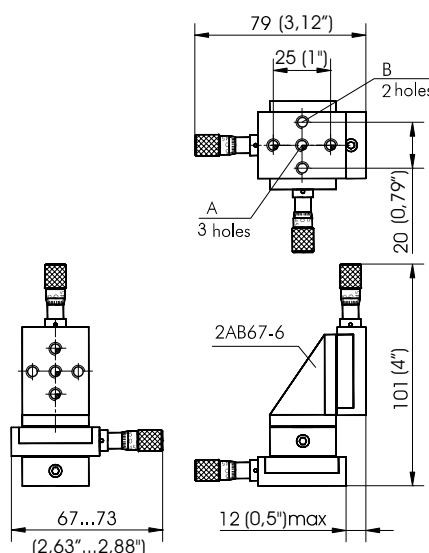
7T67E-6 – model of **imperial** dimensions – is produced **on demand**.

7T67V-6 - version for **vacuum**

Note: adjustment screw is **not included**. It can be ordered separately. Suitable micrometers are: **9S35M-5, 9SH137M, 9SH137MN**.



7T67-6-9S35M-5XYZ



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Basic Translation Stages

7T125

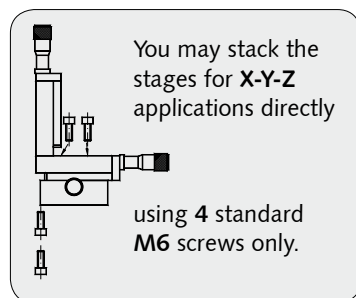


7T125Z-10



7T125X-10

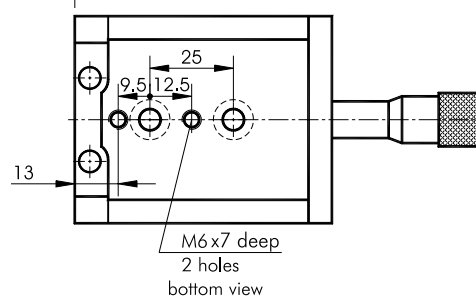
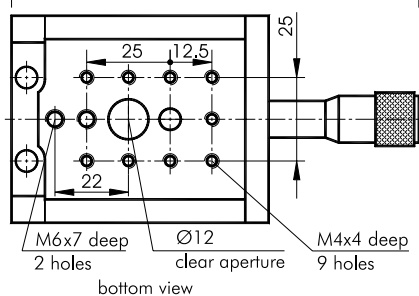
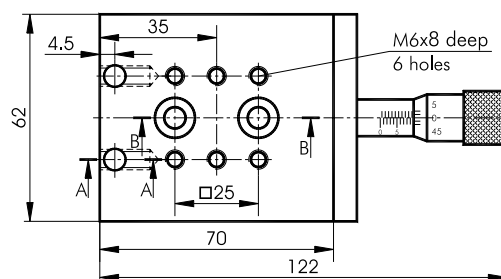
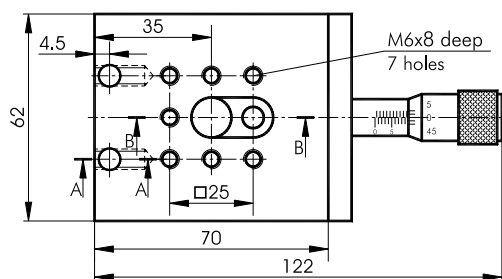
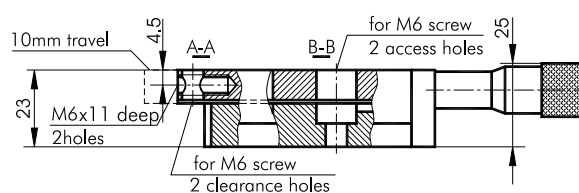
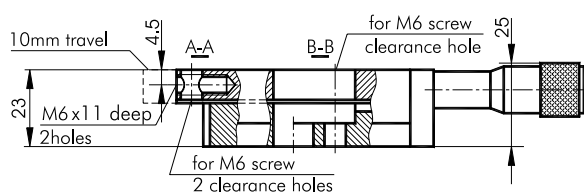
- 10 mm travel
- Low profile
- X-Y-Z direct stacking
- Ball bearing design
- Spring preloaded



7T125X-10 is designed for stacking to **X** and **XY** configurations and **7T125Z-10** is intended for use in **Z**-axis. They differ in mounting hole patterns. **7T125Z-10** has a **Ø12 mm clear aperture** unobstructed throughout the travel range.

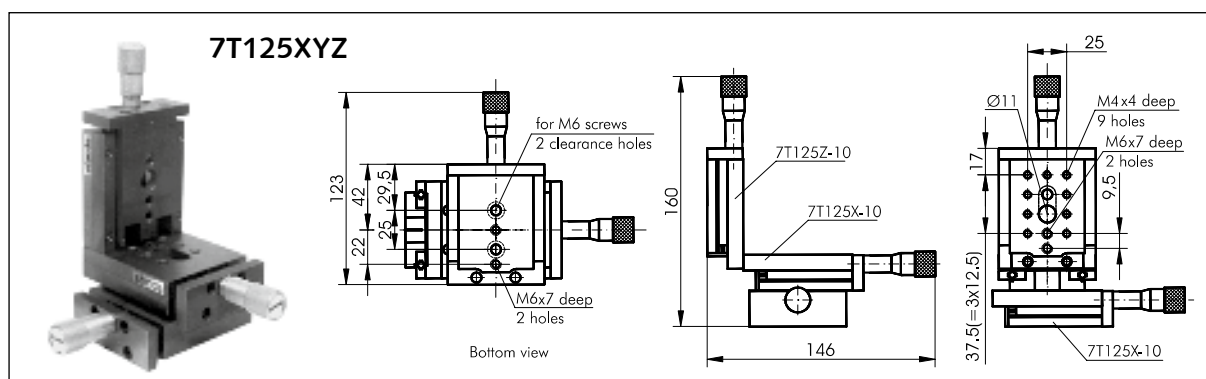
SPECIFICATIONS

Travel range	10mm
Sensitivity	1 μm
Angular deviation	< 200 μrad
Tracking accuracy	2 μm
Reading accuracy	5 μm ($\frac{1}{2}$ division)
Load capacity:	
Horizontal	10 kg
Vertical (relative to driving screw)	
against	3 kg
away	0.5 kg
Material	black finished aluminium
Weight	0.3 kg



7T125Z-10

7T125X-10



Ultra Low Profile STEEL Translation Stages Single and Two-Axis

7T164-10 • 7T264-10

*two axis stages
only 20 mm
in height !*

- Only 20 mm in height
- Compact X-Y configuration
- Exceptionally precise orientation of axes at 90°
- Precision movement
- 10 mm travel range
- Precision ball bearings

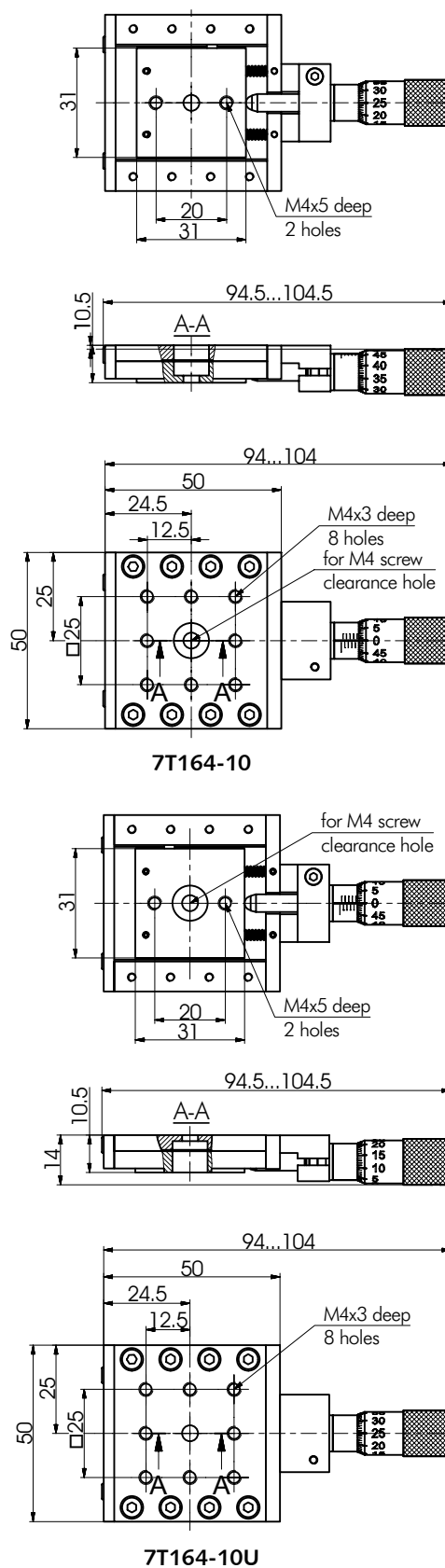
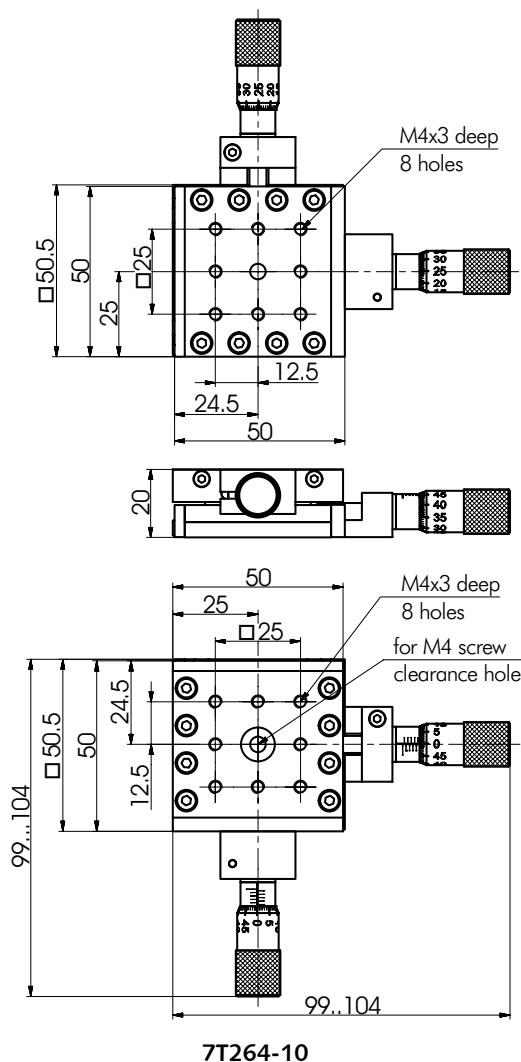


Ultra Low Profile Steel Two Axis 7T264-10 and Single Axis 7T164-10 Translation Stages. The height of single axis translation stage is **10.5 mm**, and of two axis translation stage – **20 mm**. To match the low height of the stages **Thin Micrometers 9S55-10** with small knob diameter (13 mm) are used as driving screws.

SPECIFICATIONS

Travel range	10 mm
Sensitivity	1 μm
Tracking accuracy	2 μm
Reading accuracy	5 μm ($\frac{1}{2}$ division)
Load capacity:	
Horizontal	6 kg
Vertical	3 kg
Weight:	
7T164-10	0.14 kg
7T264-10	0.34 kg
7T264-10U	0.34 kg

Ordering information on the 7-16 page.



Side Control Linear STEEL Stages

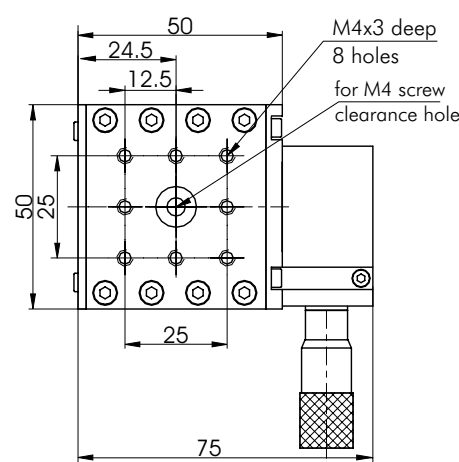
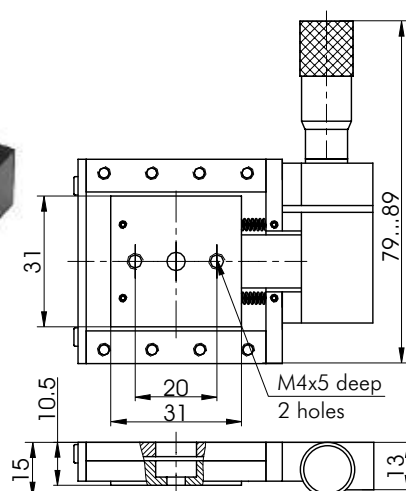
7T164-10T • 7T264-10T

Ordering information
on the **7-16** page.

- Stable Steel stage
- 10mm travel range
- Side Control Linear Stage
- Driving micrometer screw
- Precise ball bearings
- Compact XYZ configuration with all screws from one side



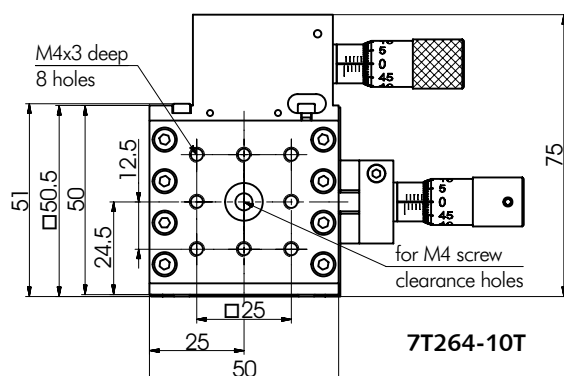
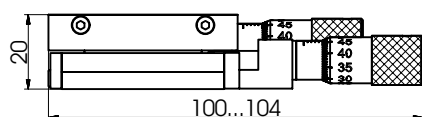
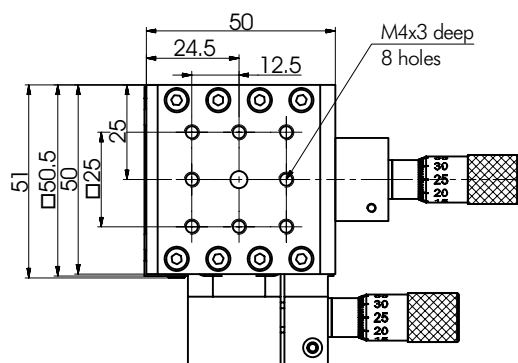
7T164-10T



7T164-10T

SPECIFICATIONS

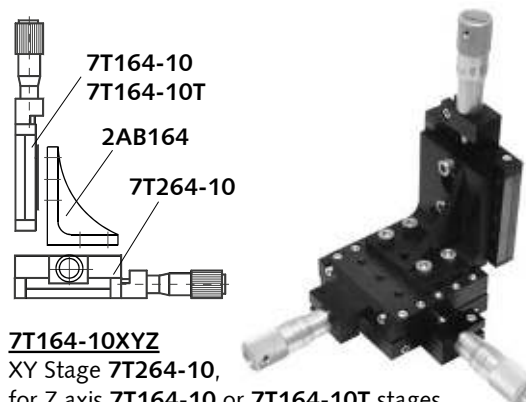
Travel range	10 mm
Sensitivity	1 μm
Tracking accuracy	2 μm
Reading accuracy	5 μm ($\frac{1}{2}$ division)
Load capacity:	
Horizontal	6 kg
Vertical	3 kg
Weight:	
7T164-10T	0.15 kg
7T264-10T	0.35 kg



7T264-10T

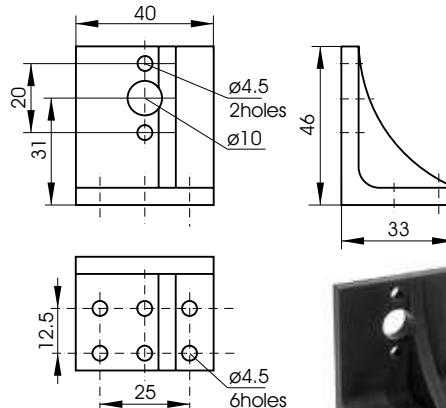
3UBP-04

Universal base plate
for stacking the
translation stages
to STANDAs
optical tables
or to another
stages



7T164-10XYZ

XY Stage **7T264-10**,
for Z axis **7T164-10** or **7T164-10T** stages
and angle bracket **2AB164**



Angle Bracket 2AB164

Vertical Drive Ultra Low Profile STEEL Translation Stages

7T164-10VD • 7T264-10VD

- Stable Steel stage
- 10mm travel range
- Driving micrometer screw
- Precise ball bearings



7T264-10VD

SPECIFICATIONS

Travel range	10 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Reading accuracy	5 μ m ($\frac{1}{2}$ division)
Load capacity:	
Horizontal	6 kg
Vertical	3 kg
Weight:	
7T164-10VD	0.15 kg
7T264-10VD	0.35 kg

ORDERING INFORMATION

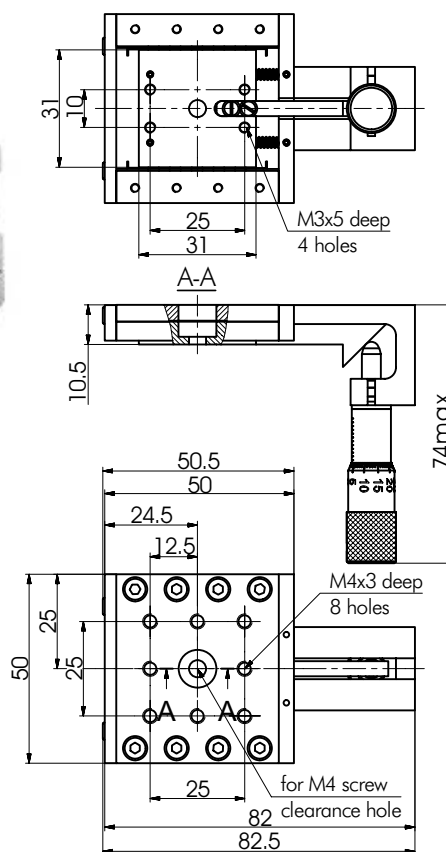
Application	Model	Note
X axis	7T164-10	Steel Version
	7T164-10U	
	7T164-10T	
	7T164-10VD	
X axis	7T164SS-10	Stainless Steel Version
	7T164SS-10U	
	7T164SS-10T	
	7T164SS-10VD	
X axis	7T164SSV-10	Vacuum Version Vacuum 10^{-6} Torr compatible
	7T164SSV-10U	
	7T164SSV-10T	
	7T164SSV-10VD	
XY system	7T264-10	Steel Version
	7T264-10T	
	7T264-10VD	
XY system	7T264SS-10	Stainless Steel Version
	7T264SS-10T	
	7T264SS-10VD	
XY system	7T264SSV-10	Vacuum Version Vacuum 10^{-6} Torr compatible
	7T264SSV-10T	
	7T264SSV-10VD	

2AB164SS

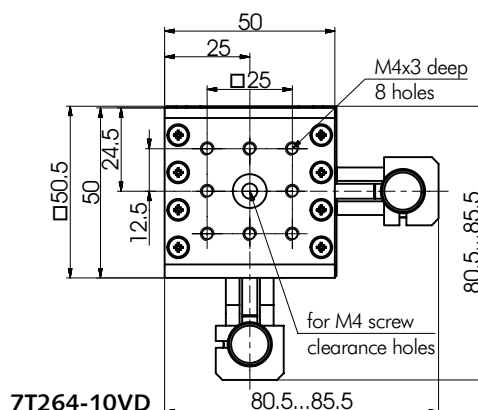
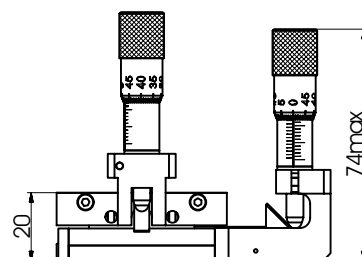
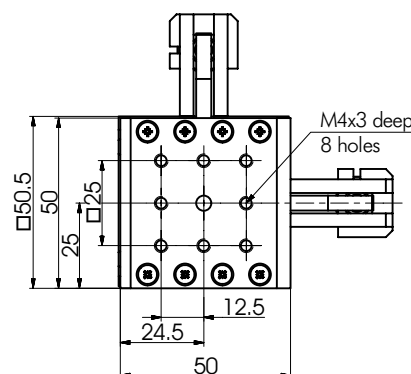


Angle Bracket 2AB164 is used to transform “horizontal” translators into vertical ones.

2AB164 – steel version
2AB164SS – stainless steel version and version for vacuum



7T164-10VD



7T264-10VD

Low Profile Two-Axis Aluminium Translation Stage

7T273-10



- Compact X-Y configuration
- Exceptionally precise orientation of axes at 90°
- Precision movement
- 10 mm travel range
- Precision ball bearings
- Perpendicular and side control configuration

Low Profile Two-Axis Aluminium Translation Stage

7T273-10 provides smooth, precise, X-Y axis movement.

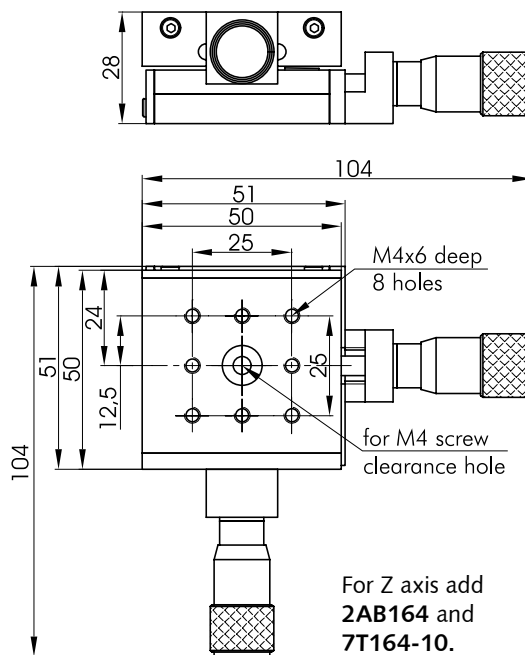
The travel of this Stage is 10 mm with resolution 10 µm.

Eight M4 tapped holes are provided in order to mount other components. It can be directly mounted to breadboards and other equipment from Standa by use of mounting holes Ø4.5 mm and M4.

The base and the platform are produced from the black anodized aluminium.

SPECIFICATIONS

Travel range	10 mm
Sensitivity	1 µm
Tracking accuracy	2 µm
Reading accuracy	5 µm (½ division)
Load capacity:	
Horizontal	15 kg
Vertical	5 kg
Weight	0.38 kg



7T273-10



3UBP-04 universal base plate for stacking the translation stages to STANDA optical tables or to another stages. Page 3-6

Low Profile Two-Axis Aluminium Translation Stage of Side Control

7T273-10T

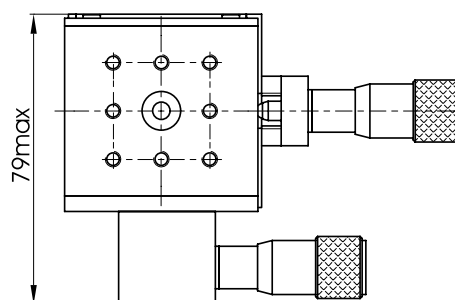


A rare opportunity to control an X-Y translation stage from one side! Try it and feel the advantage!

Translation Stage 7T273-10T. For your convenience we have rotated by 90° the driving screw for X axis. Now it sits parallel to the other screw (for Y axis). So the stage is controlled from a single side. This helps in optical schemes of great concentration.

In other respects, including the **specifications**, the stage is the same as 7T273-10.

Weight – 0.38 kg



7T273-10T

Other dimensions such as 7T273-10

Micro Translation Stage

7T128

- Compact design
- Precision movement
- 5 mm travel range
- Precision ball bearings



top view



bottom view

7T128



7T128XY

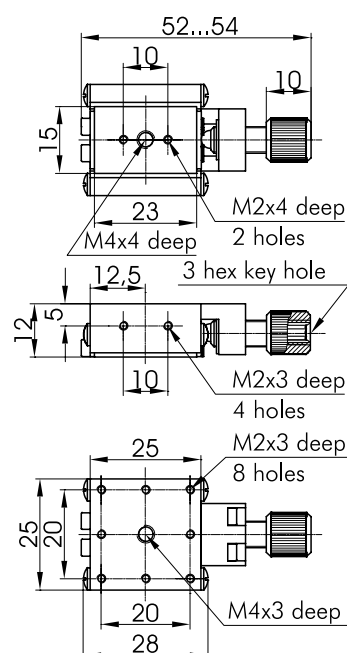
Micro Translation Stage 7T128 provides smooth, precise single axis movement.

M2 and **M4** mounting holes are provided.

Material: black anodized aluminium.

SPECIFICATIONS

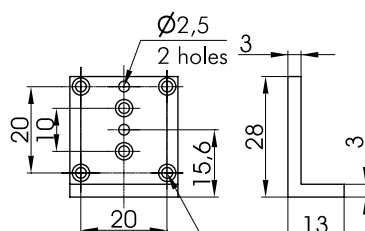
Travel range	5 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	0.5 kg
Vertical	0.2 kg
Weight	0.04 kg



Angle brackets 2AB128 allow to stack the stages for **X-Y-Z** motion.



2AB128



for M2 screw
6 clearance holes

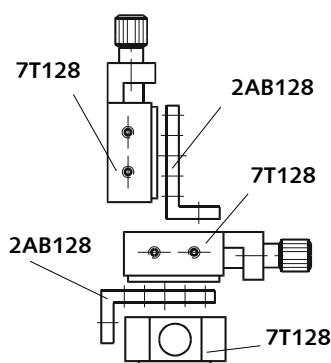
Angle Bracket
2AB128



7T128XY



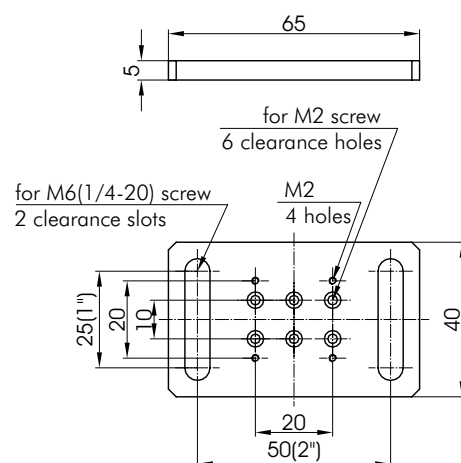
7T128XYZ



usage of angle
bracket 2AB128



7T128 - 9S35-5
(with mini micrometer
9S35-5 installed)



3BP7T128 base plate
for stacking the translation stages
7T128, **7T228T** and rotation stage **7R128**
to STANDA optical tables or to another
stages.

XZ Micro Translation Stage of Side Regulation

7T228T

- Ultra Compact configuration
- Precise rectilinear movement
- 4 mm X-Z or X-Y travel range
- Precision ball bearings

So it is ideally suited for use as a **holder of diaphragms**.

The base and the platform are made of black anodized aluminium.

XZ Micro Translation Stage 7T228T provides smooth, precise two axis movement.

The driving screws are positioned so that the unit is **controlled only from one side**.

The **travel** of this stage is **4 mm** with **sensitivity of 5 µm**. To mount components on it, **M2** tapped holes are provided. The unit has a clear **aperture of Ø7**.



7T228T



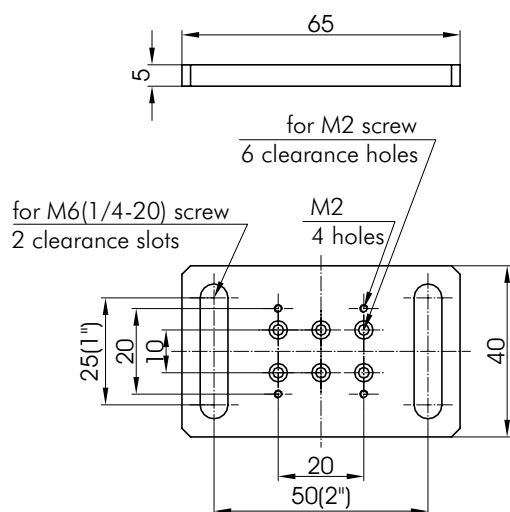
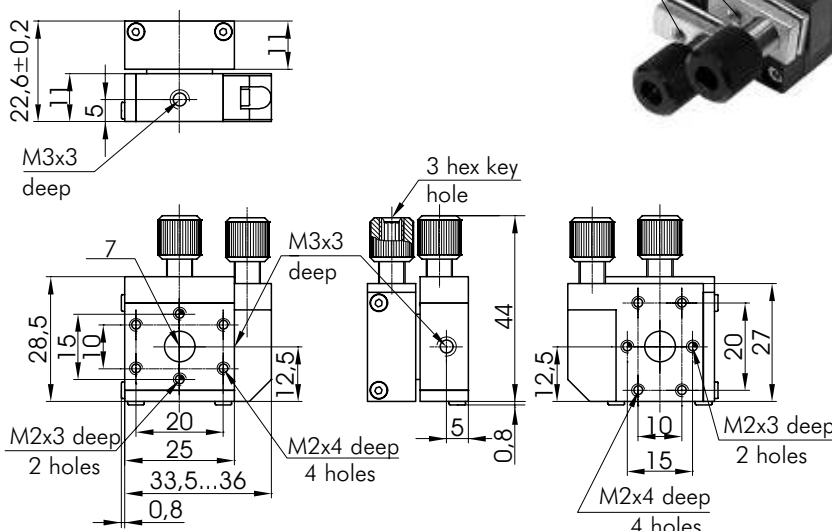
7T228T – 9S35M-5BL
(with mini micrometer 9S35M-5BL installed)



7T228TL
lockable version

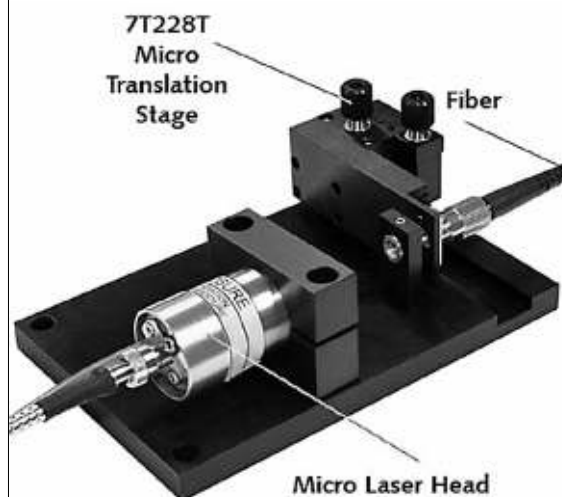
SPECIFICATIONS

Travel range	4 mm
Sensitivity	1 µm
Tracking accuracy	2 µm
Load capacity:	
Horizontal	0.3 kg
Vertical	0.1 kg
Weight	0.06 kg



3BP7T128 base plate
for stacking the translation stages
7T128, 7T228T and rotation stage **7R128**
to STANDA optical tables or to another stages.

example of 7T228T application



Example of Fiber coupling assembly

Optical Tables	1
Brackets & Rails	2
Base Mounts & Accessories	3
Optical Mounts	4
Optical Positioners	5
Base Positioners	6
Translation & Rotation Stages	7
Motorised Positioners & Controllers	8
Fine Adjustment Screws	9
Opto-Mechanics & Sets	10
Light Test & Measurement Instruments	11
Lasers & Laser Accessories	12

Aluminium Ball Bearing Stage

7T184-13



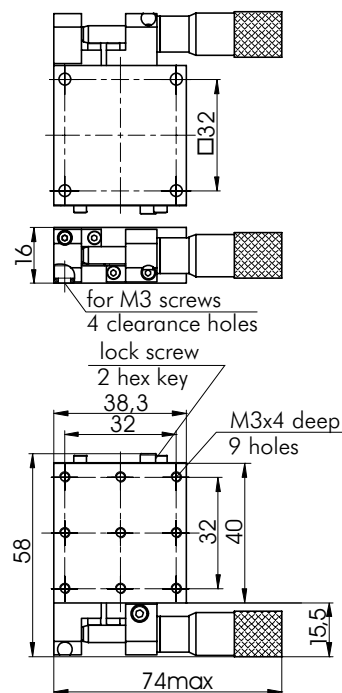
- Compact design
- Precise movement
- 13 mm travel range
- Lockable
- X-Y direct stacking
- Stacks directly with stages of 174 series

SPECIFICATIONS

Drive type	Side
Travel range	13 mm
Sensitivity	1 μm
Angular deviation	< 200 μrad
Tracking accuracy	2 μm
Reading accuracy	5 μm (half division)
Load capacity	
Horizontal	10 kg
Vertical	3 kg
Material	Aluminium
Finish	Black anodized
Weight	0.12 kg
Assemblies:	
X-Y	directly
Z	2AB174



3UBP-02
universal base
plate for stacking
the translation
stages to STANDA
optical tables or to
other stages.
Page 3-6



7T184-13 (2 pieces)
stacked in XY coordinates



7R174-11
stacked on **7T184-13**



7R174-11, **7T184-13** (2 pieces),
and **7VT174** or **7VT40** stacked



7T184-13 (3 pieces)
stacked in XYZ coordinates



7T184-13 (2 pieces) and **7VT174** or **7VT40-13**
stacked in XYZ coordinates
7T184 may be stacked with **7VT174** or **7VT40** on top or under

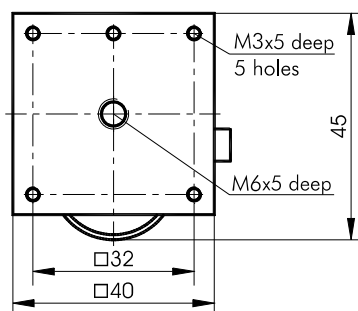
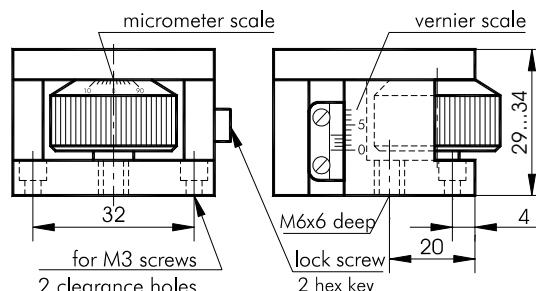


Aluminium Ball Bearing Vertical Stages

7VT174-5


- Travel range 5 mm
- Lockable
- Stacks directly with stages of 174 and 184 series

Adjustable
Height Post
Holder
3TPH-13
see page 5-34



7R174
stacked on
7VT174-5

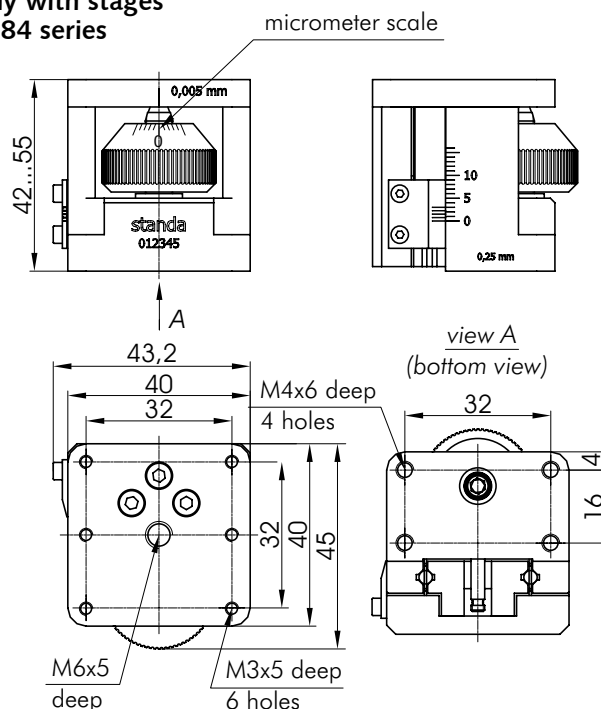
SPECIFICATIONS

Sensitivity	1 μ m
Tracking accuracy	1 μ m
Reading accuracy	5 μ m
Load capacity	3 kg
Material	Aluminium
Finish	Black anodized
Weight	0.15 kg

Vertical Stage

7VT40-13


- Travel range 13 mm
- Stacks directly with stages of 174 and 184 series

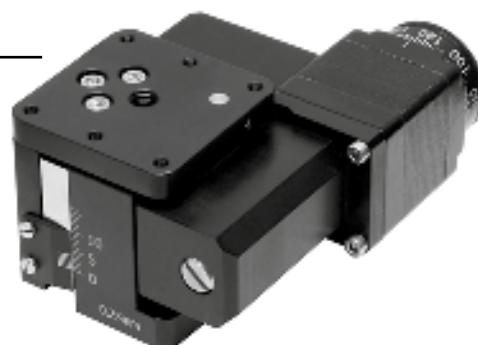


SPECIFICATIONS

Sensitivity	1 μ m
Tracking accuracy	1 μ m
Reading accuracy	5 μ m
Load capacity	5 kg
Material	Aluminium
Finish	Black anodized
Weight	0.25 kg

Resolution up to 0.03 μ m

**Specifications of
Motorized Vertical Stage
8MVT40-13**
See page 8-62

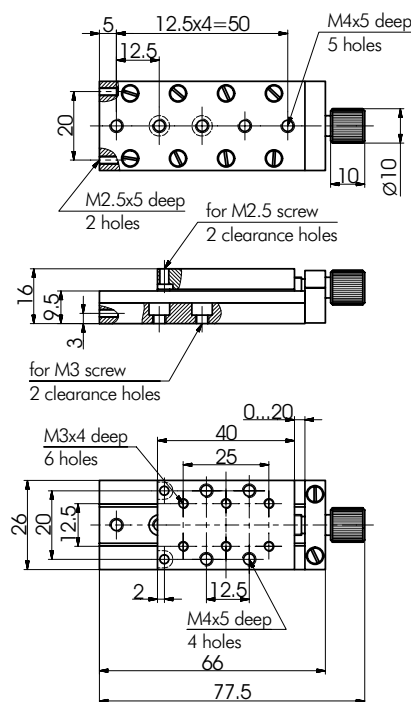


Non-Magnetic Translation Stage

7T34-20

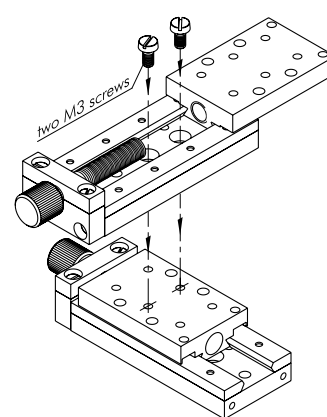


- Precision non-magnetic translation stage
- In this stage are used only non-magnetic materials (brass, bronze, aluminium)
- X-Y-Z configurations available

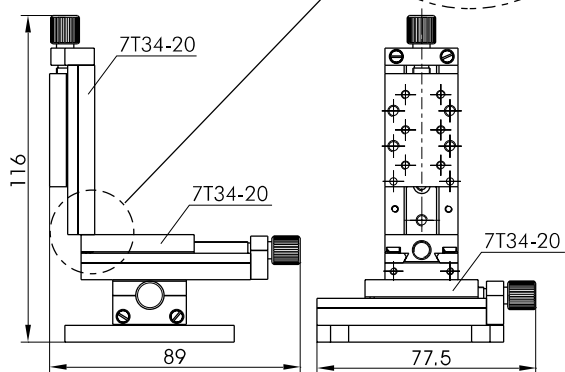
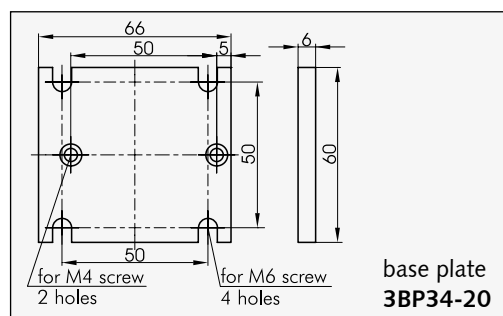
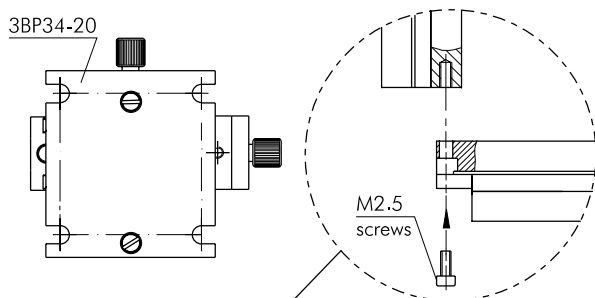


SPECIFICATIONS

Travel range	20 mm
Sensitivity	5 μ m
Screw backlash	0.02 mm
Load capacity	
Horizontal	2 kg
Vertical	1 kg
Weight	0.19 kg

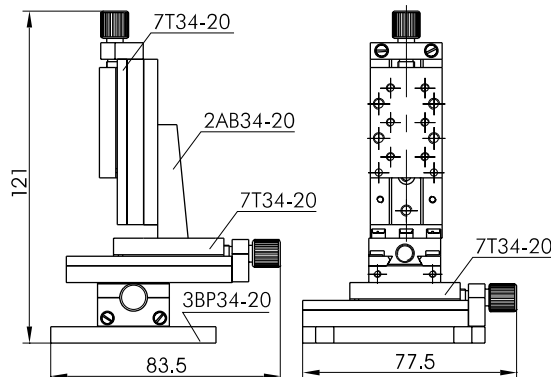


You may stack the stages for **XY** applications directly only using two **non-magnetic M3 screws**



7T34-20XYZ

For quick YZ assembly stages may be stacked using two non-magnetic M2.5 screws



7T34-20XYZ

Angle bracket 2AB34-20 allow to stabilize stack the stages for YZ motion

Dovetail Linear Translation Stage

7T25-10



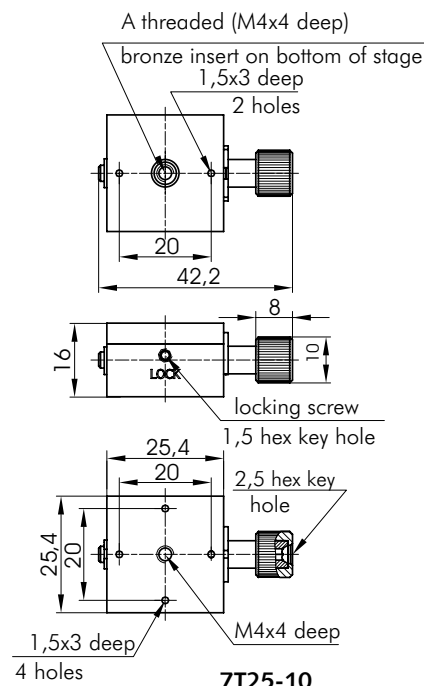
7T25-10

The **Dovetail Translation Stage** is **miniature**, ideal for **use in applications where space is limited**. The design uses a precision **M4x0.25mm pitch lead screw** for smooth linear positioning along the entire range of travel. The moving **platform** is **lockable**. Various application accessories are also available.

- Compact design
- Robust Dovetail Mechanism
- Rapid, Smooth Positioning
- Lockable Moving Platform
- XY Miniature Dovetail Stages

SPECIFICATIONS

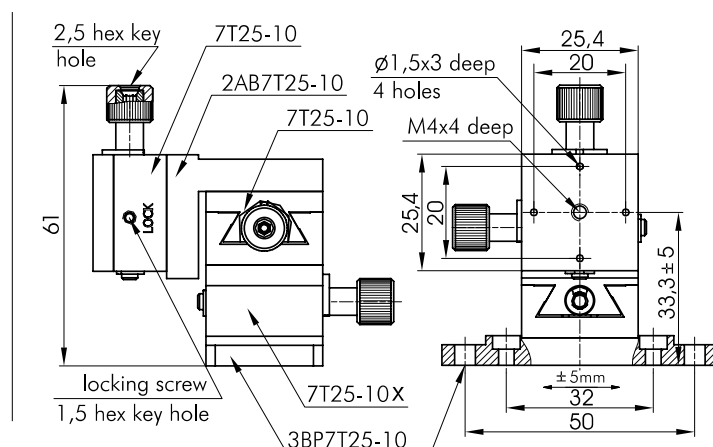
Travel range	10 mm
Fine Screw pitch	0,25 mm
Sensitivity	1 μ m
Resolution	1 μ m
Drive Location	Center drive
Bearings	Dovetail
Load capacity	
Horizontal	1.5 kg
Vertical	1 kg
Material	Aluminium
Finish	Black anodized
Weight:	
7T25-10	0.03 kg



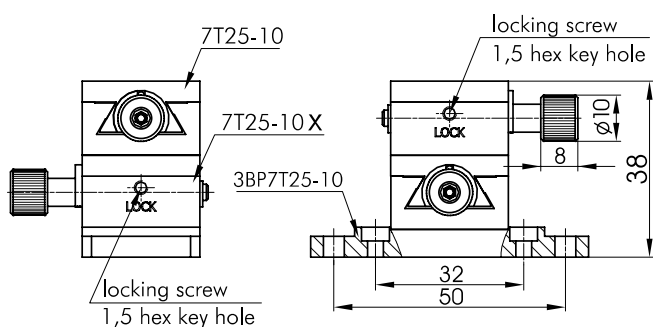
7T25-10



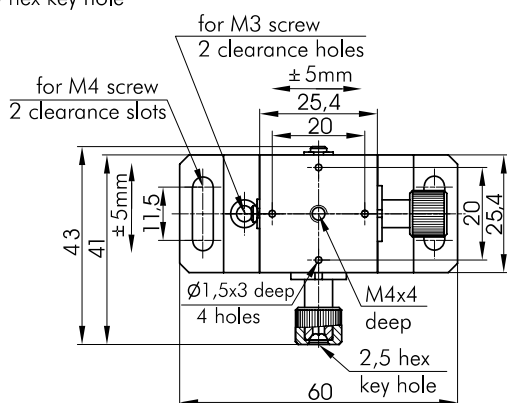
7T25-10XY



for M4 screw
2 clearance slots



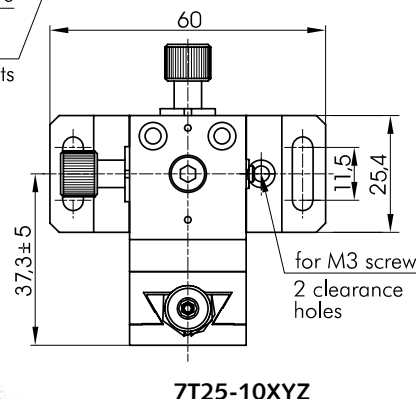
locking screw
1,5 hex key hole



7T25-10XY



7T25-10XYZ



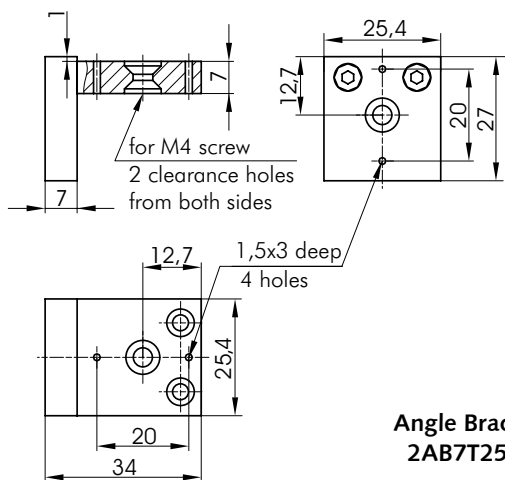
7T25-10XYZ

e-mail: sales@standa.it

www.standa.it

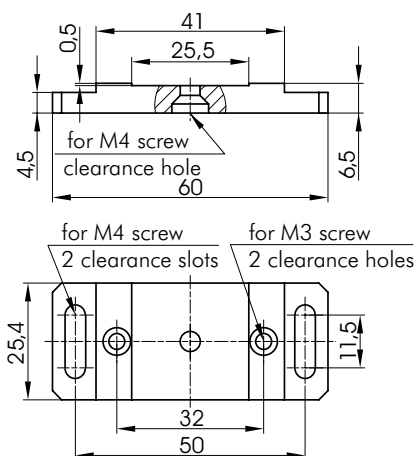
Phone: +370-5-2651474 Fax: +370-5-2651483

standa

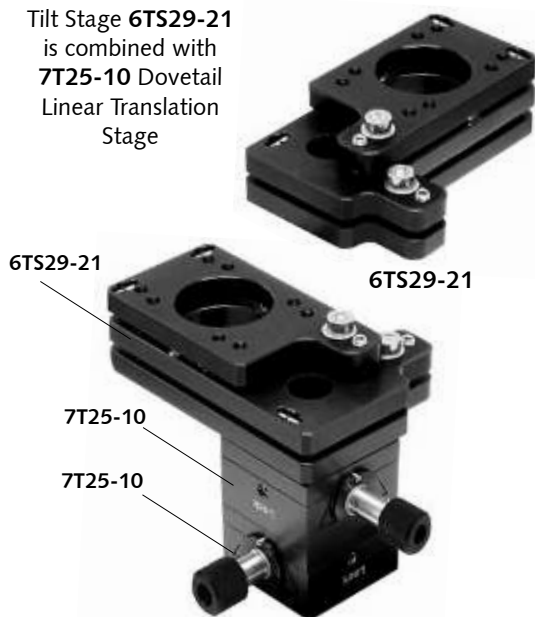


Angle Bracket
2AB7T25-10

Base Plate
3BP7T25-10



Tilt Stage **6TS29-21** is combined with **7T25-10** Dovetail Linear Translation Stage



ORDERING INFORMATION

Application	Model	Note
X axis	7T25-10	For use as a single axis stage. Not for assembly to XY or XYZ configurations
XY system	7T25-10XY	3BP7T25-10 is included
XYZ system	7T25-10XYZ	3BP7T25-10 and 2AB7T25-10 are included
Angle bracket	2AB7T25-10	
Base plate	3BP7T25-10	

Other MODIFICATIONS are AVAILABLE!!!

XY Custom stage with increased sensitivity actuators 7T25-10.08.01. Adjustment can be done using hex screw or, more conveniently and with higher sensitivity by using 6 holes in head of screw.



Detailed information at www.STANDA.LT

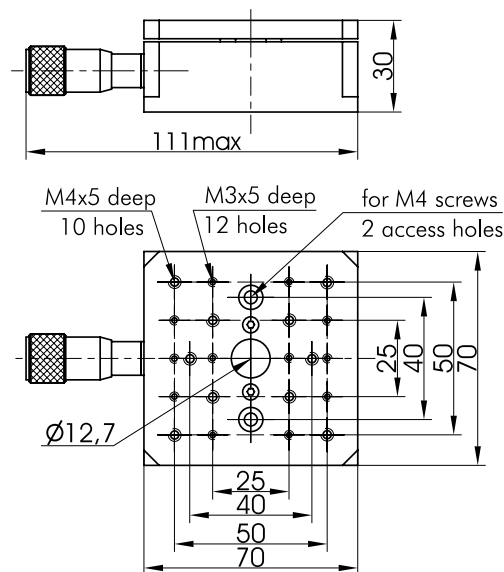


Linear Flexure Translation Stage

7TLF1



- Ultra smooth
- High stability



The **7TLF1** linear flexure translation stages provide **ultra smooth** translation for optical assemblies and other components. These stages guarantee linearity of motion over the whole travel range. **High stability** and **smoothness** of translation of the stages is ideal for applications in interferometry, biomedicine, microscopy and other nanoprecision adjustment.

Extremely low friction.

Stackable for **X-Y-Z** configurations.

Available options include linear flexure stage equipped with **stepper motor** actuator, **DC motor** actuator and **piezo** actuator.

SPECIFICATIONS

Travel range	5 mm
Sensitivity with Micrometer screw	1 μ m
Sensitivity with Differential screw	0.1 μ m
Tracking accuracy	2 μ m
Reading accuracy	10 μ m
Load capacity:	1 kg
Weight:	0.4 kg
Assemblies:	
X-Y	directly
Z	2AB7TLF1

