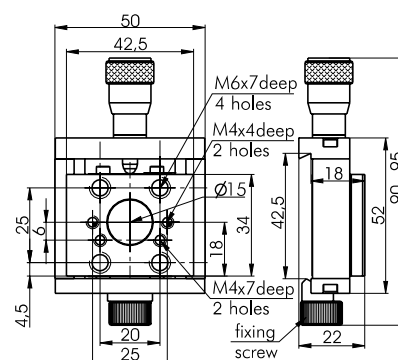
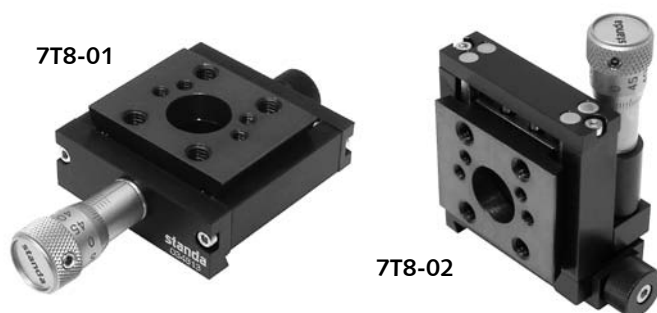
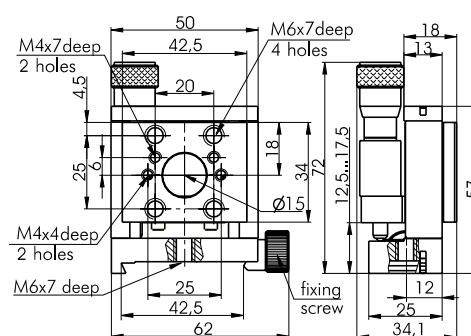


Mini Rail System Ball Slide Positioners

7T8-01 • 7T8-02



7T8-01



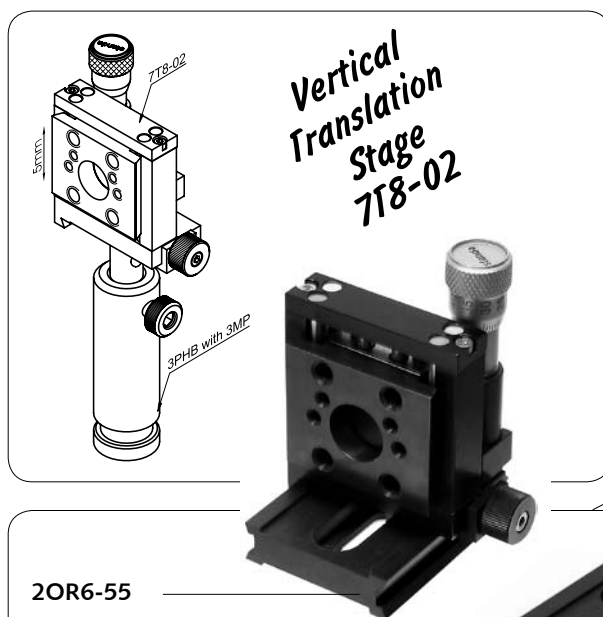
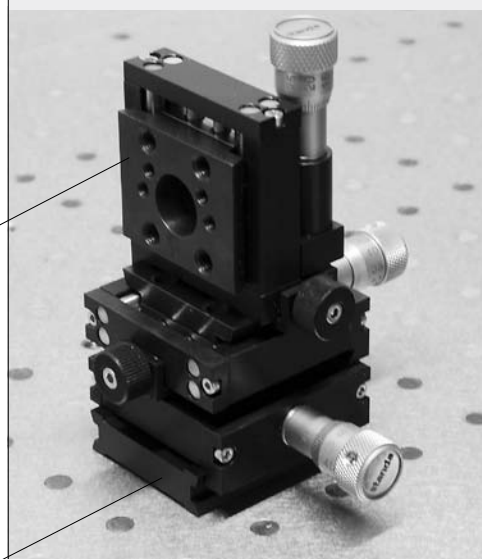
7T8-02

SPECIFICATIONS

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

7T8 xyz

You may stack the stages for **X-Y-Z** applications directly, **without screws**.
Default base plate choice for **7T8 xyz** is **2OR6-55T** optical rail.



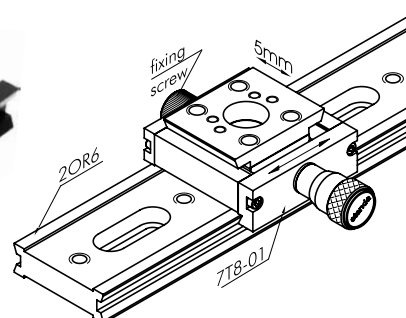
2OR6-55

Optical Rails

2OR6-55T

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



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


7T173-10

7T173-20

7T173-20-50

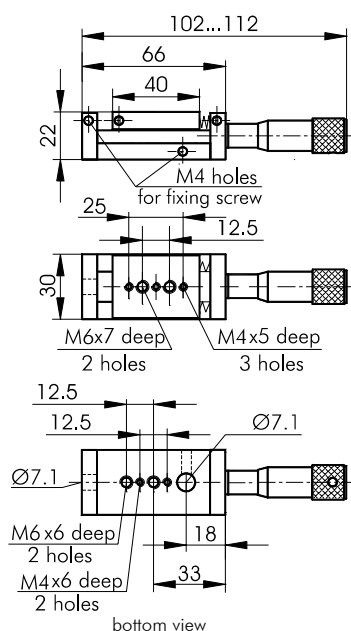
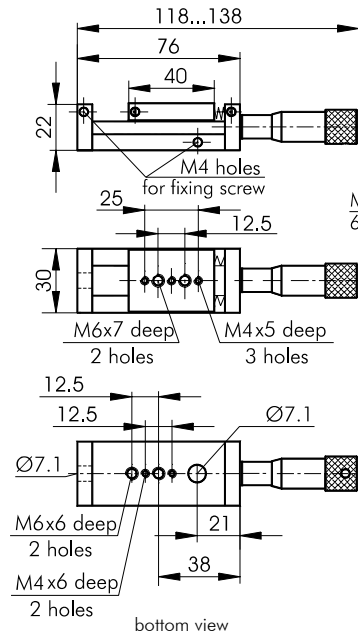
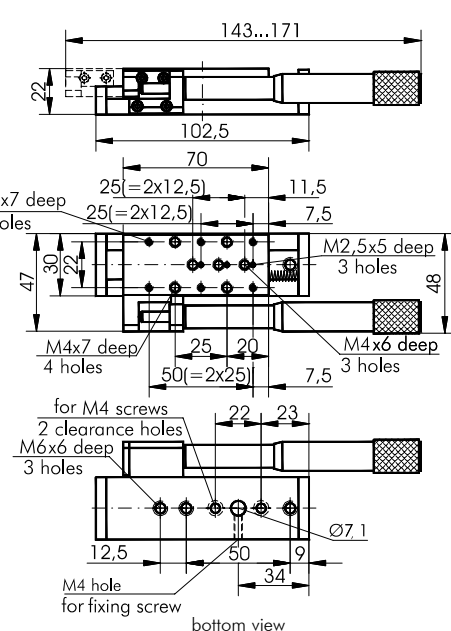
Stages **7T173** provide manual linear motion.

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.

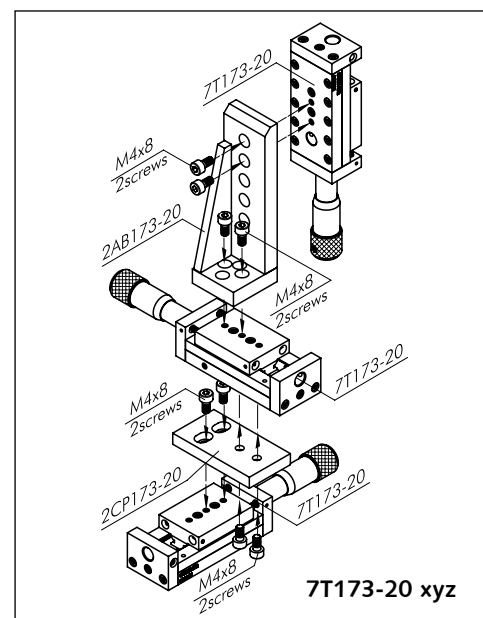
An array of mounting holes on a platform and on a base provide a variety of convenient mounting options, including mounting on **3MP** series **Posts**.


7T173-10

7T173-20

7T173-20-50

SPECIFICATIONS	7T173-10	7T173-20	7T173-20-50
Travel range	10 mm	20 mm	50 mm
Sensitivity	1 μ m	1 μ m	1 μ m
Tracking accuracy	2 μ m	2 μ m	2 μ m
Reading accuracy	5 μ m	5 μ m	5 μ m
($\frac{1}{2}$ division)	($\frac{1}{2}$ division)	($\frac{1}{2}$ division)	($\frac{1}{2}$ division)
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

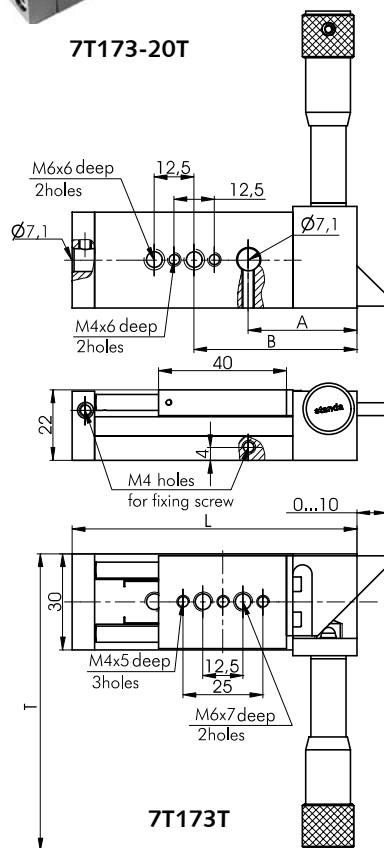

7T173-20 xyz

Side Control Linear Stages

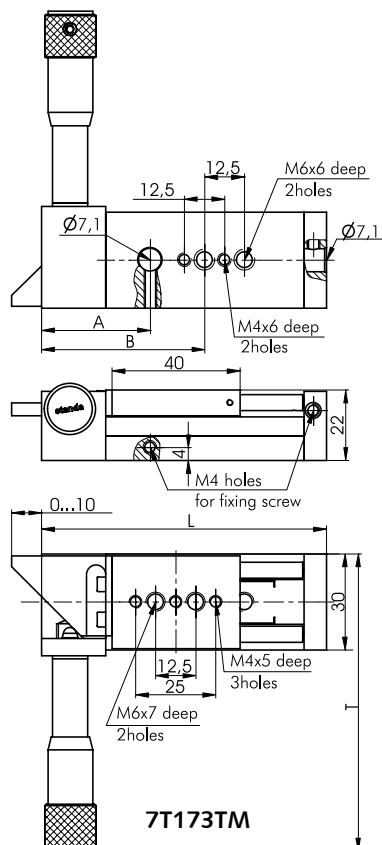
7T173T



7T173-20T



7T173T



7T173TM

- 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	86	74-94
7T173-20TM	34	51	86	74-94

SPECIFICATIONS

	7T173-10T 7T173-10TM	7T173-20T 7T173-20TM
Travel range	10 mm	20 mm
Sensitivity	1 μ m	1 μ m
Tracking accuracy	2 μ m	2 μ m
Reading accuracy	5 μ m ($\frac{1}{2}$ division)	5 μ m ($\frac{1}{2}$ 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



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

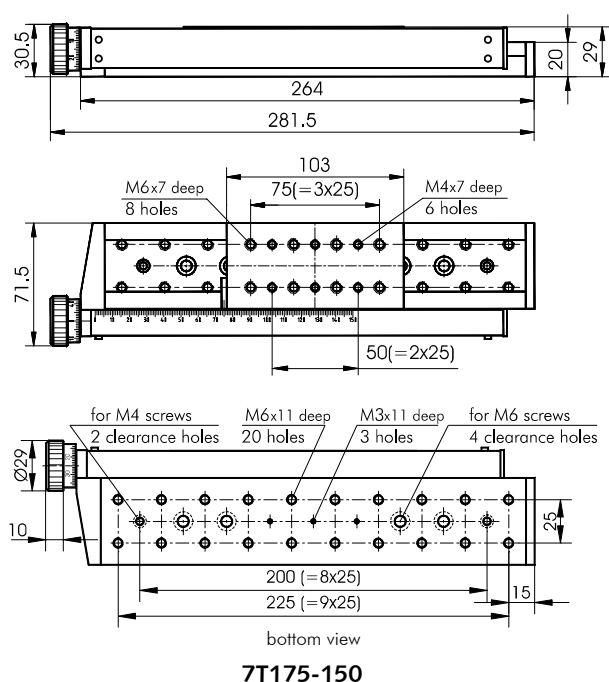
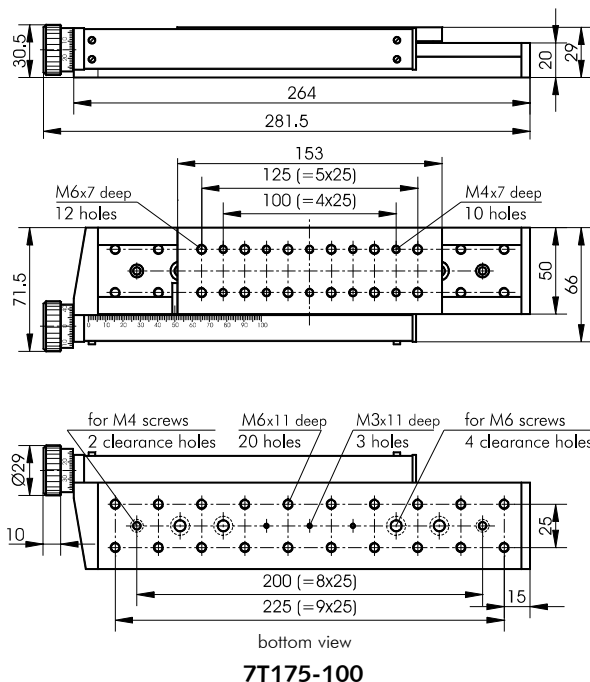
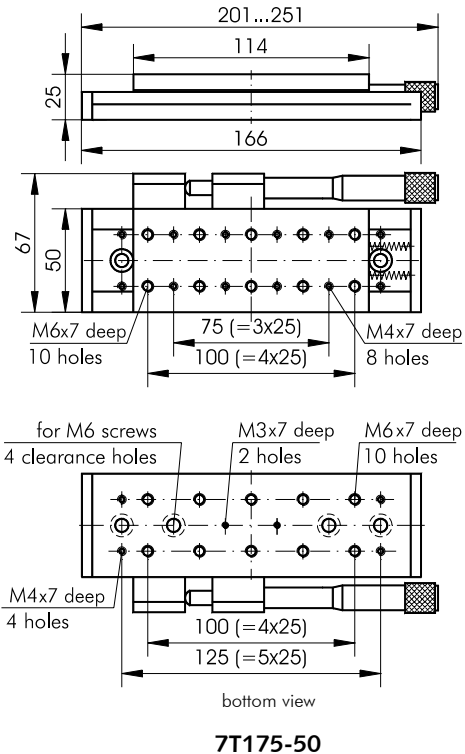
7T175-50 uses **9S75M** micrometer as a driving screw. The platform is spring preloaded against the screw.

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	



Low Profile Translation Stage with Quick Move Lever

7T167-100Q



7T167-100Q
with insert platform **7T167-25.07-01**

- **Lever for quick movement bypassing the driving screw**
- 100 mm travel range
- 2 inches (Ø50 mm) clear aperture
- Precise movement
- Stackable for multi-axis positioning
- Insert platform with M6, M4 and clearance holes

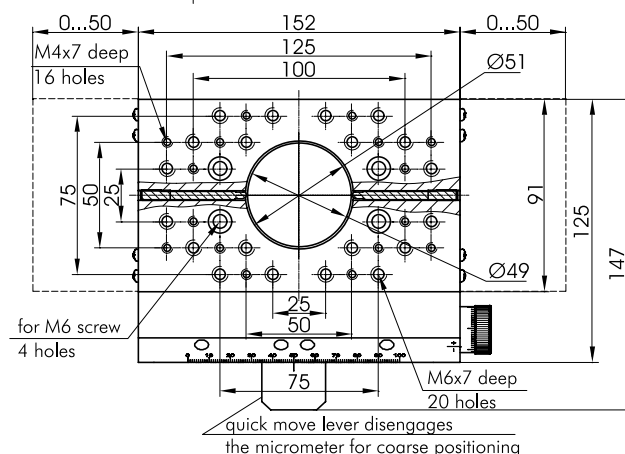
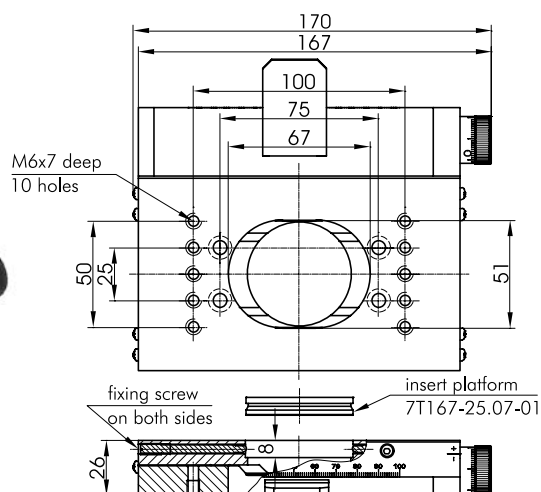
SPECIFICATIONS

Travel range	100 mm
Sensitivity	1 μ m
Scale graduation	10 μ m
Load capacity	16 kg
Weight	0.6 kg

Designed to use with microscope!

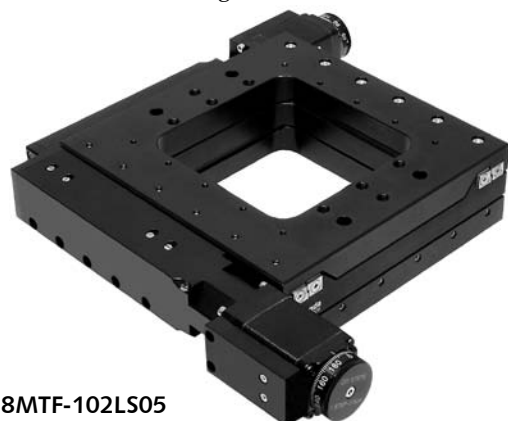


7T167-100Q xy
with insert platform 7T167-25.07-01



Motorized XY Scanning Stage

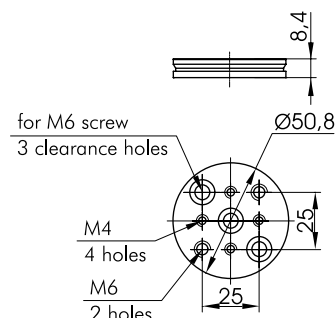
- Travel range XY – 102 mm (4");
- Resolution – 2.5 μm ;
- Max. speed – 10 mm/s;
- Clear aperture – 64...115 mm;
- Load capacity
 - Horizontal – 50 kg;
 - Vertical – 6kg;



8MTF-102LS05



Insert platform
7T167-25.07-01



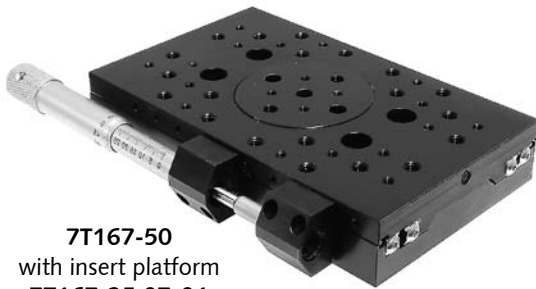
Aluminium Translation Stages

Low Profile

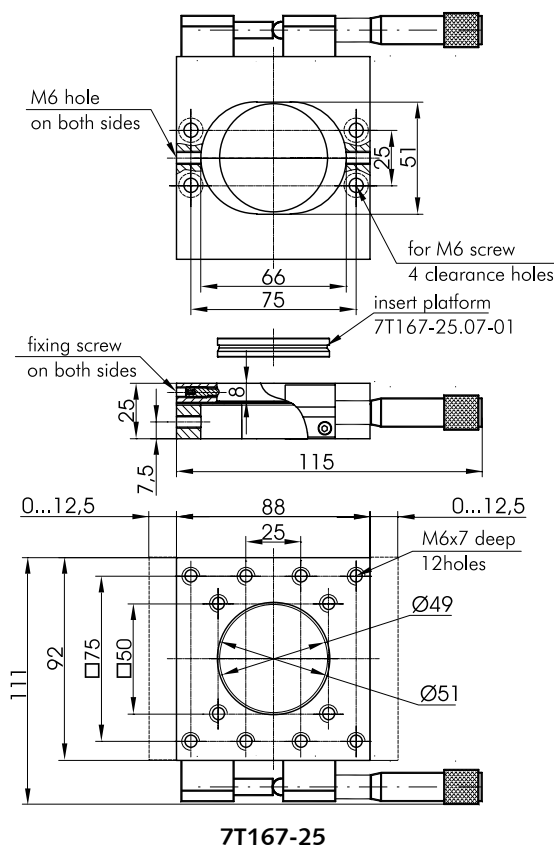
7T167

- 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

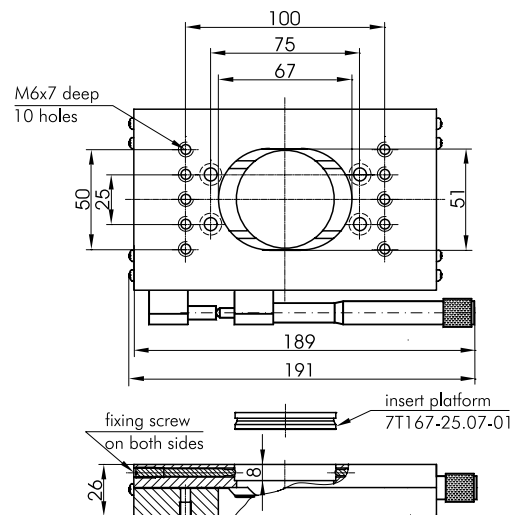
7T167-25



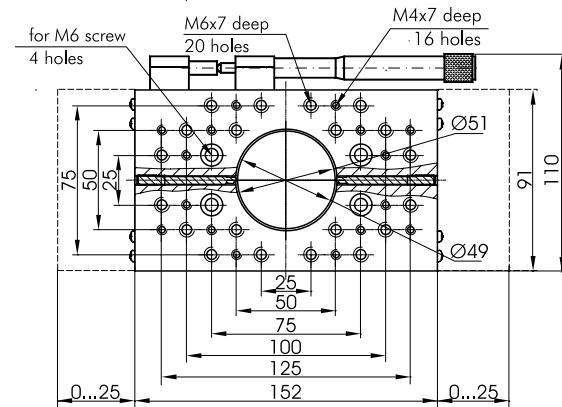
7T167-50
with insert platform
7T167-25.07-01



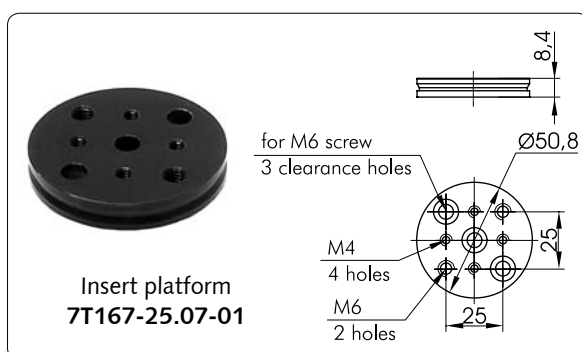
7T167-25



7T167-50



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



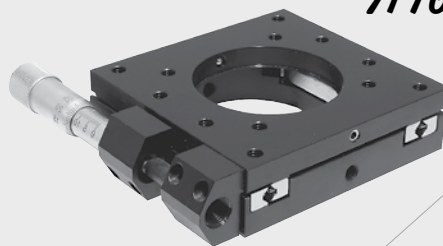
Insert platform
7T167-25.07-01

http://www.standa.it

e-mail: sales@standa.it

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

Available "right-hand" version
7T167M-25



7T167M-50
Available "left-hand" version



7T167-25 xyz

XYZ



8MT167-25 xyz

7T167-25 stacked in XYZ
using **2AB167-25** angle bracket



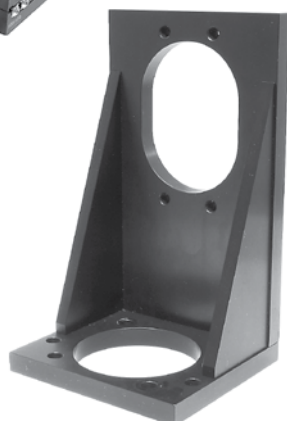
Angle Bracket
2AB167-25

Motorized Translation Stage
8MT167-25 stacked in XYZ
using **2AB167-25** angle bracket



7T167-50 xyz

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

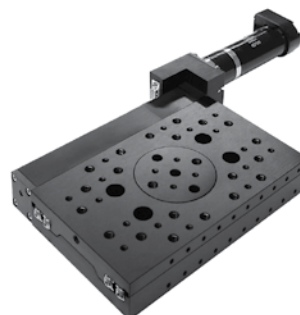


Angle Bracket
2AB167-50

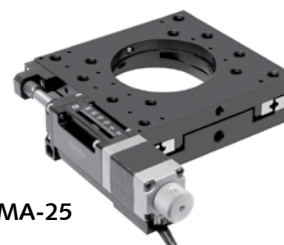
*Motorized
versions with different
motors
are in
section 8*



8MT167-25BS1



8MT167-100DCE



8MT167CMA-25

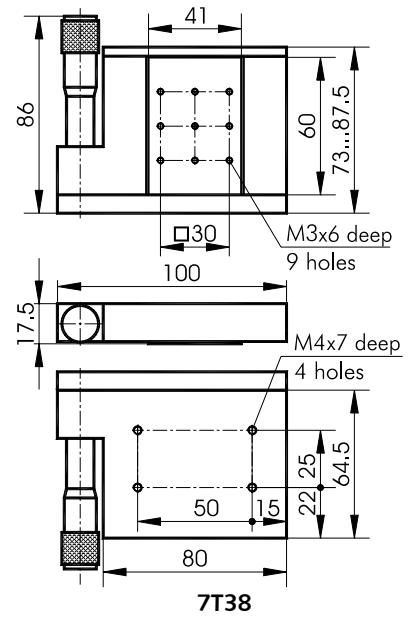
Translation Stage

7T38

- Micrometer drive
- X-Y-Z configuration available

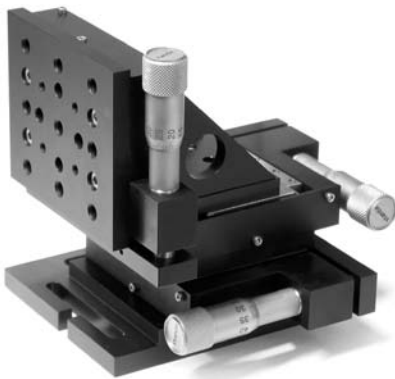
SPECIFICATIONS

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

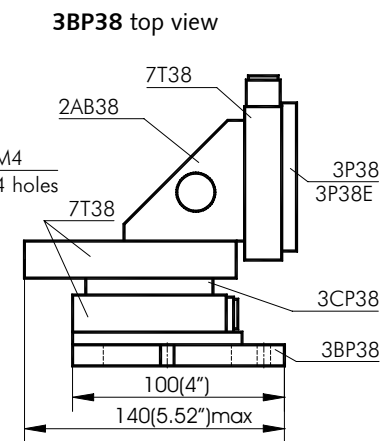
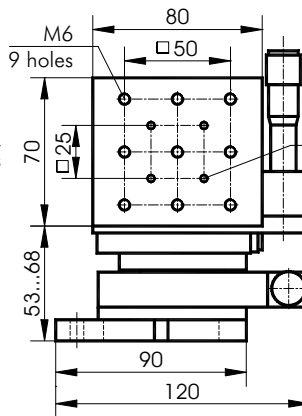
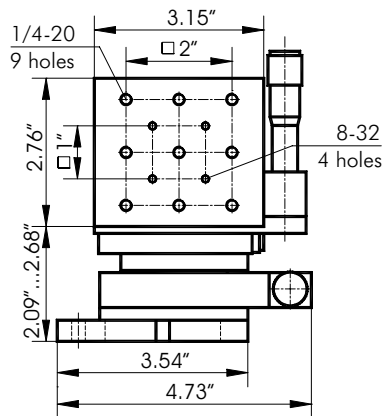
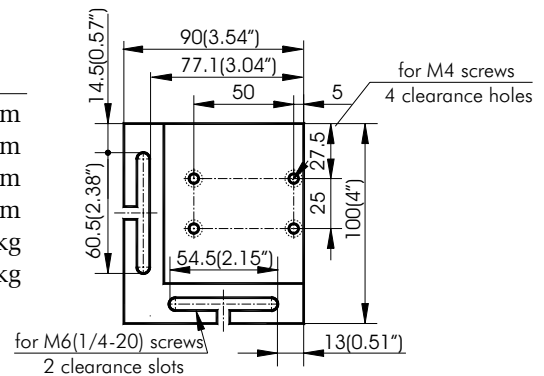


Translation Stage

*for METRIC
and INCH*

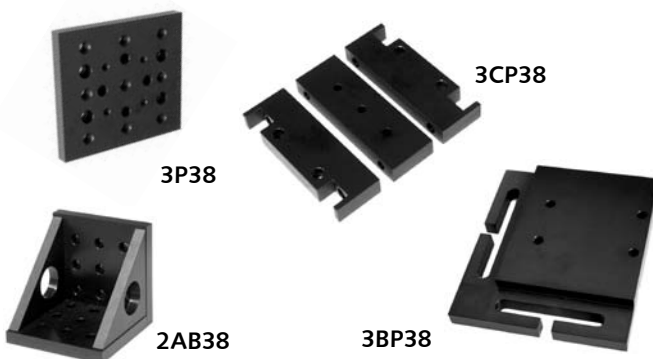
7T38 xyz**SPECIFICATIONS**

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



7T38E xyz

7T38 xyz

**ORDERING INFORMATION**

7T38 xyz
(for Metric)

7T38E xyz
(for Inch)

stage is assembled of these components:

7T38 – 3 pieces,
3P38 – 1 piece,
2AB38 – 1 piece,
3CP38 – 1 piece,
3BP38 – 1 piece.

7T38 – 3 pieces,
3P38E – 1 piece,
2AB38 – 1 piece,
3CP38 – 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

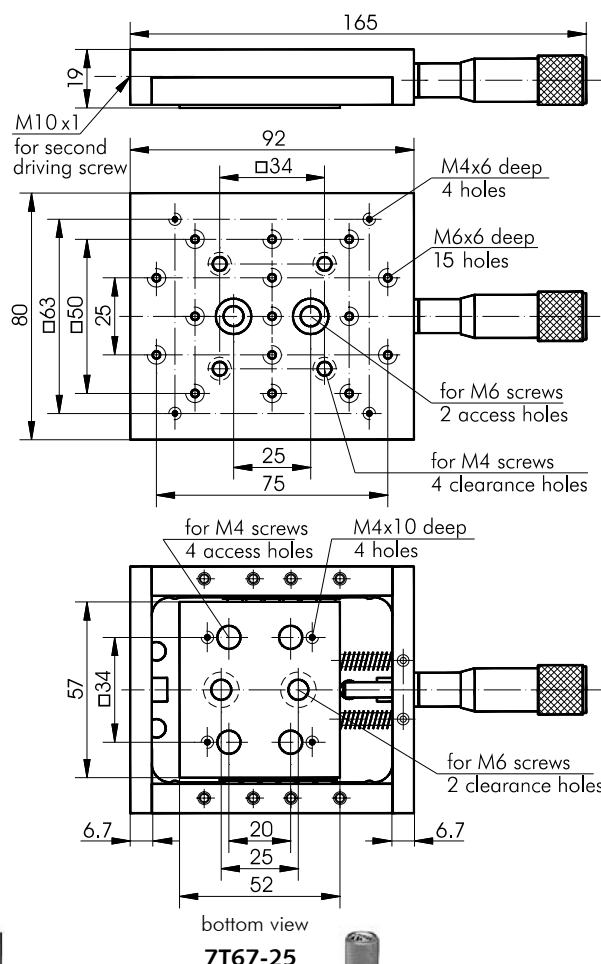
Stable Steel Translation Stages 7T67-25 have large mounting surface, great travel range for this relatively small size, low profile, and increased stability and precision. Box design reinforces the stage, reducing flex. Steel, as a material, adds to stability.

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

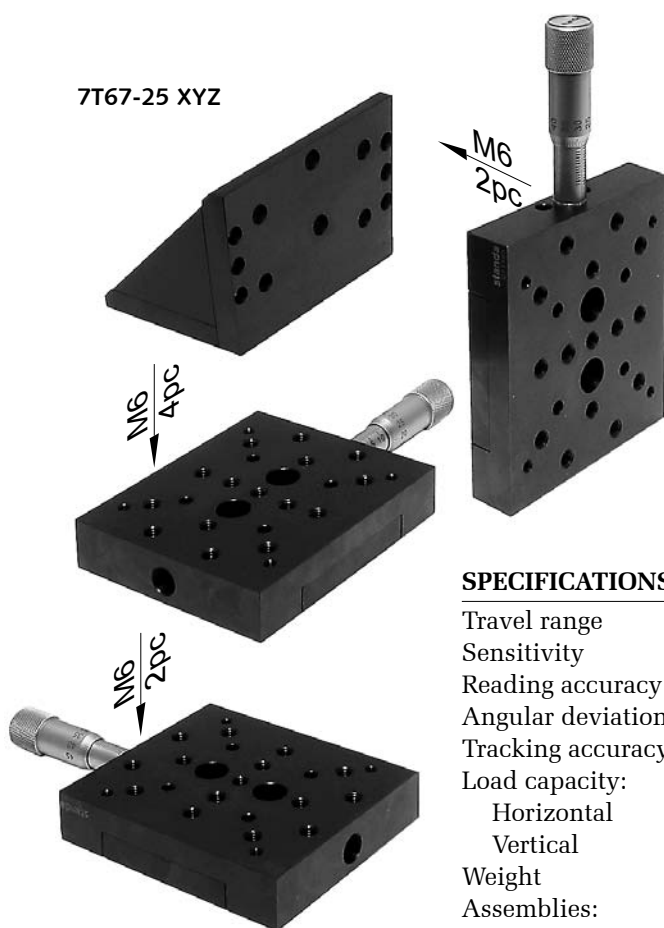
The platform is preloaded by springs.

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.



7T67-25 XYZ



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

7T67V-25 xyz

ORDERING INFORMATION

7T67-25	steel version
7T67-25 xyz	
7T67SS-25	stainless steel
7T67SS-25 xyz	version
7T67V-25	version
7T67V-25 xyz	for vacuum

e-mail: sales@standa.it

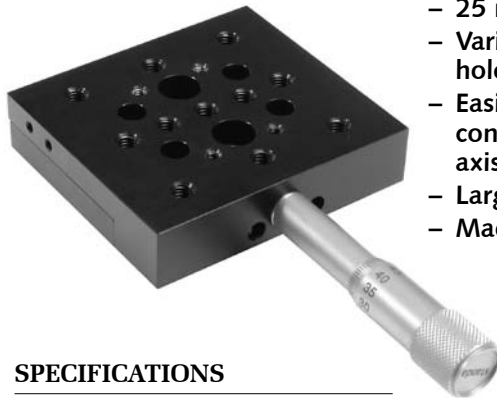
http://www.standa.it

Phone: +370-5-2651474

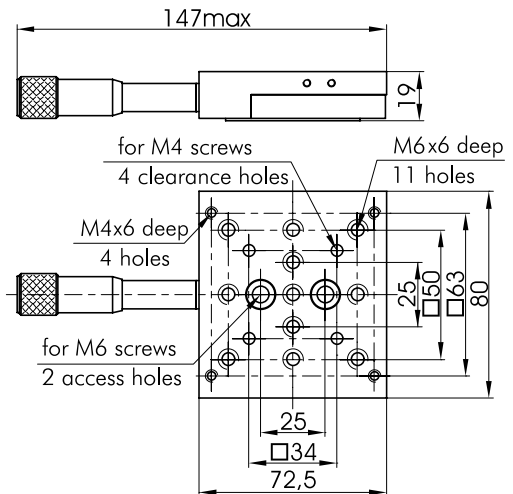
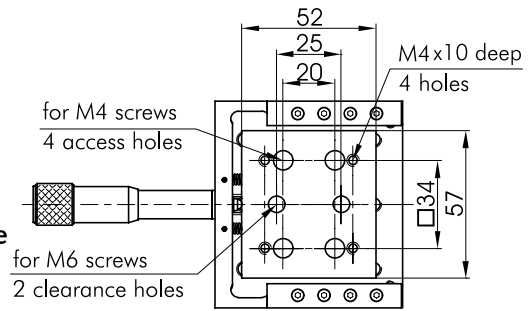
Fax: +370-5-2651483

standa

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-AI
- Large mounting surface
- Made of aluminium

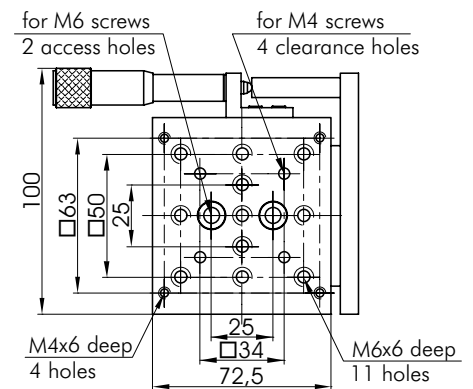
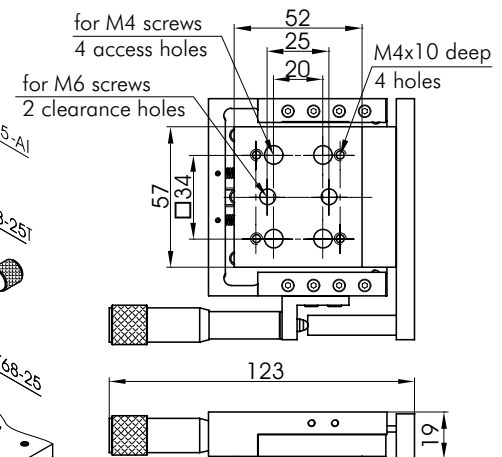
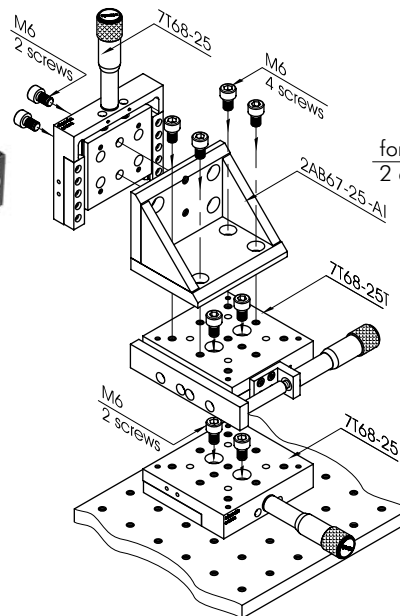


SPECIFICATIONS

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	2AB67AL-25

Low Cost Linear Translation Stage

7T68-25T
7T68-25TM

7T68-25T

7T68-25T

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	2AB67AL-25



*Right hand version
7T68-25TM available*

Stable Stainless Steel Linear Stage

7T67-6

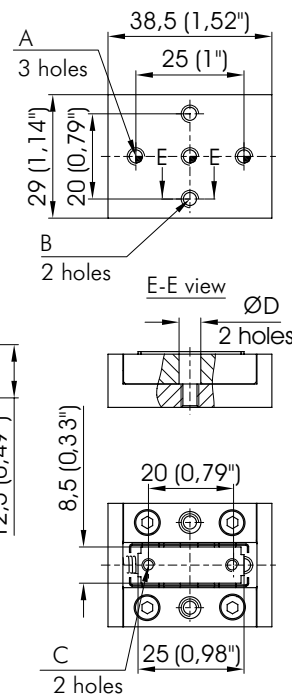
- Miniature
- Solid box design
- 6 mm travel range
- Compact design
- Large mounting surface
- Easily stacked in X-Y configuration
- Made entirely of stainless steel – easily adapted for vacuum applications

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 made entirely of **stainless steel**.



7T67E-6 and 7T67-6



7T67-6-9S35M-5

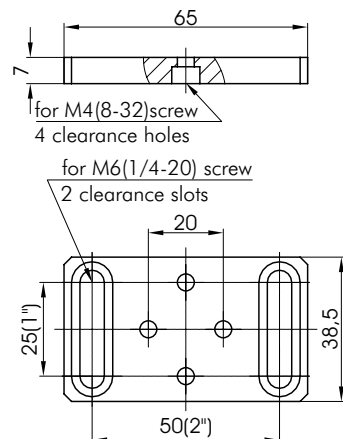
SPECIFICATIONS

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

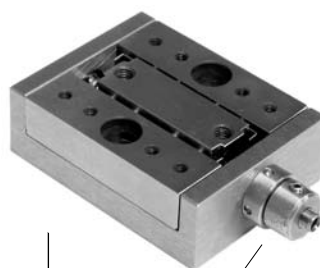
7T67-6, 7T67E-6



7T67-6-9SH137ML



3BP7T67-6 Base Plate
(or 3UBP series base plates)



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.

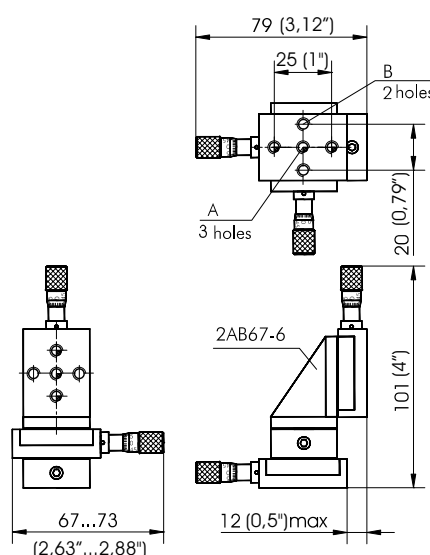
7T67E-6 – model of **imperial** dimensions – is produced **on demand**.

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-5 xyz



e-mail: sales@standa.it

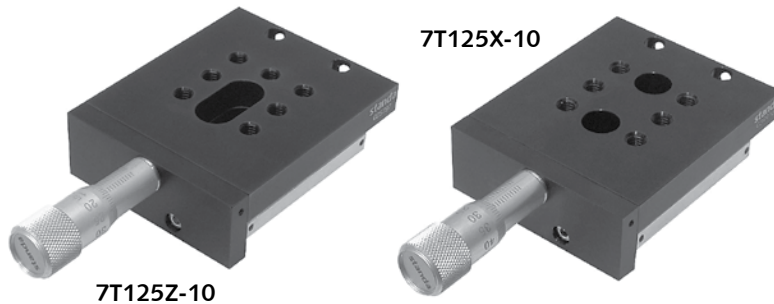
http://www.standa.it

Phone: +370-5-2651474

Fax: +370-5-2651483

standa

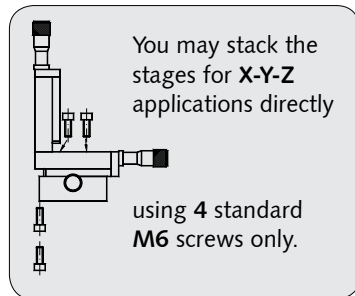
Basic Translation Stages

7T125

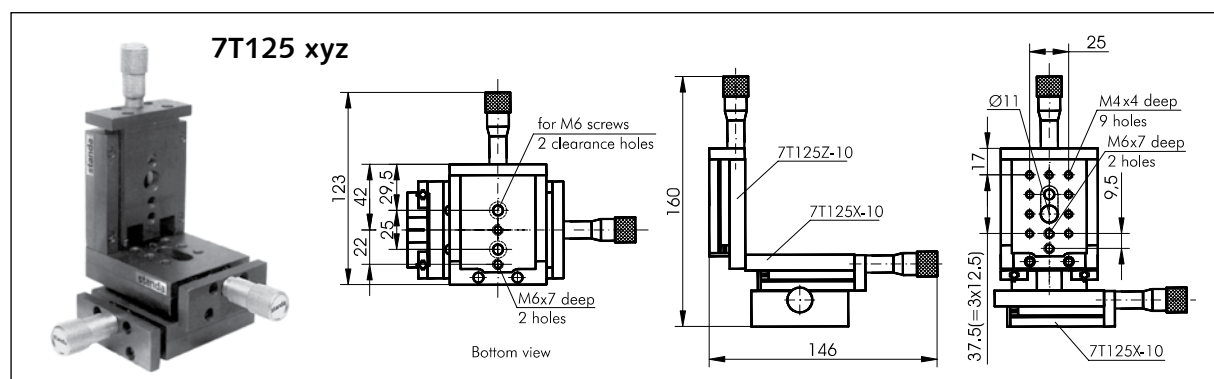
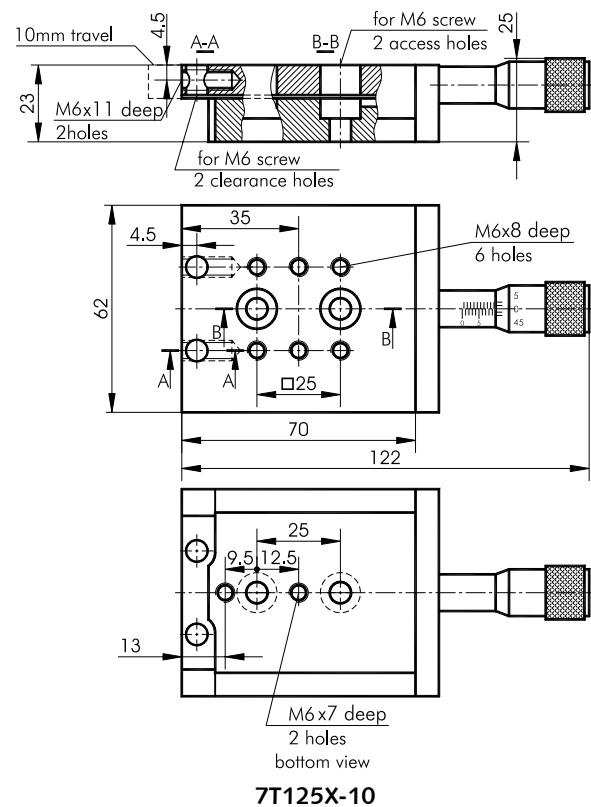
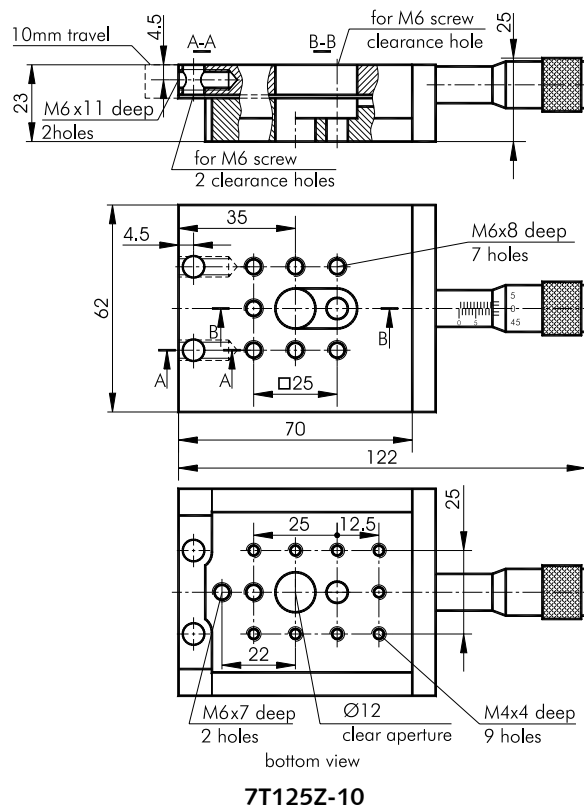
- 10 mm travel
- Low profile
- X-Y-Z direct stacking
- Ball bearing design
- Spring preloaded

SPECIFICATIONS

Travel range	10mm
Sensitivity	1 μ m
Angular deviation	< 200 μ rad
Tracking accuracy	2 μ m
Reading accuracy	5 μ m (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



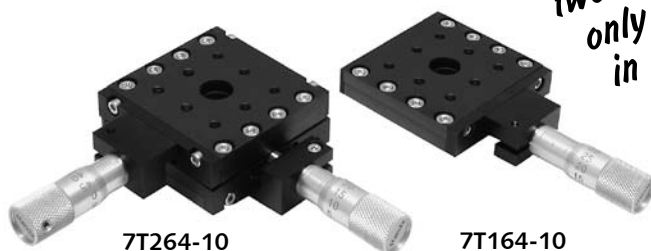
7T125X-10 is designed for stacking to **X** and **XY** configurations and **7T125Z-10** is intended for use in **Z**-axis. They differ in mounting hole patterns. **7T125Z-10** has a $\varnothing 12$ mm clear aperture unobstructed throughout the travel range.



Ultra Low Profile STEEL Translation Stages Single and two-Axis

7T164-10 • 7T264-10

*two axis stages
only 20 mm
in height !*



7T264-10

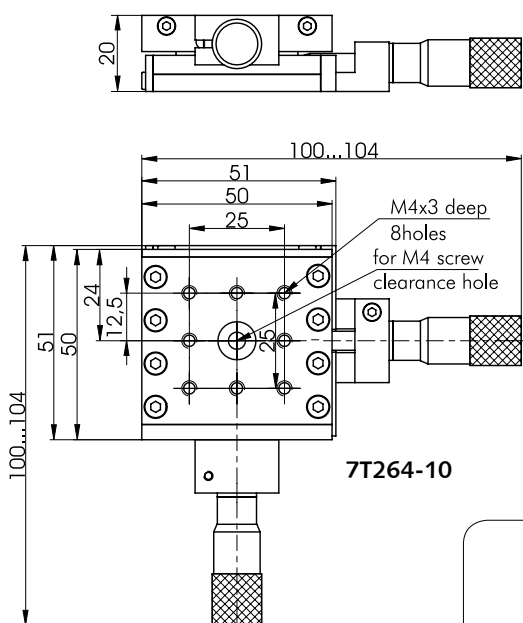
7T164-10

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.

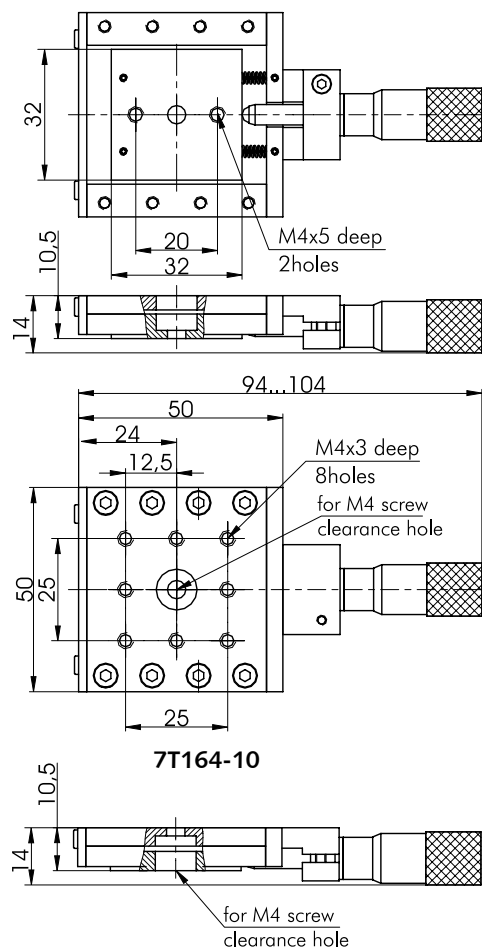
SPECIFICATIONS

Travel range	10 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Reading accuracy	5 μ m
(1/2 division)	
Load capacity:	
Horizontal	6 kg
Vertical	3 kg
Weight:	
7T164-10	0.14 kg
7T264-10	0.34 kg

- 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



7T264-10

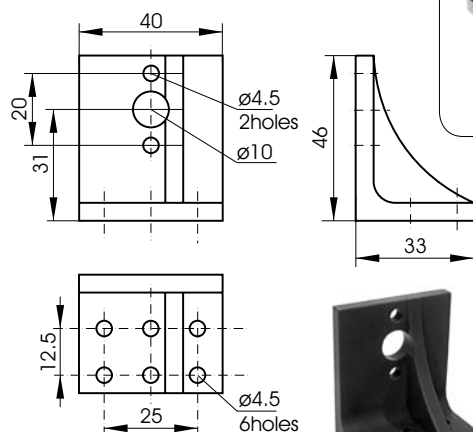


7T164-10

7T164-10U

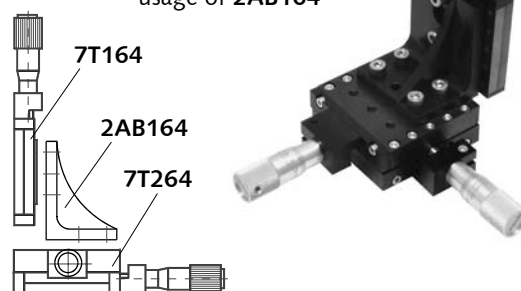


3UBP-01
Base Plate



Angle Bracket 2AB164

usage of 2AB164



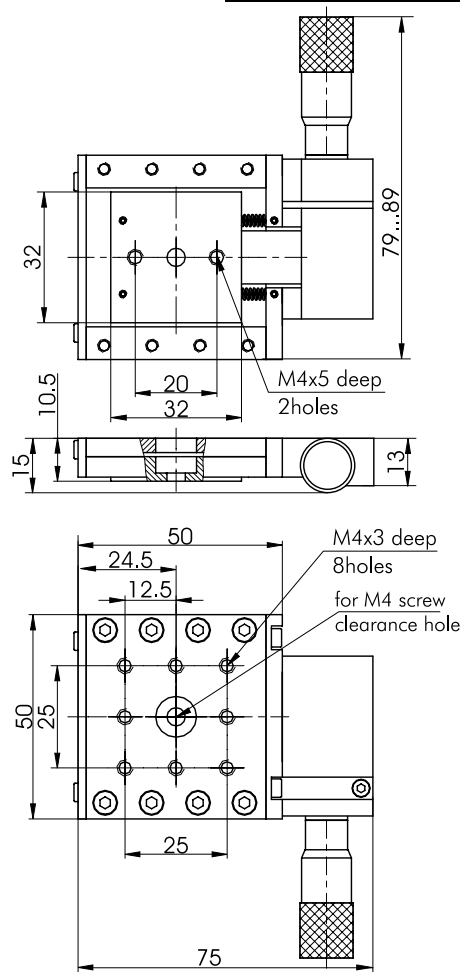
e-mail: sales@standa.it

http://www.standa.it

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

standa

Side Control Linear STEEL Stage

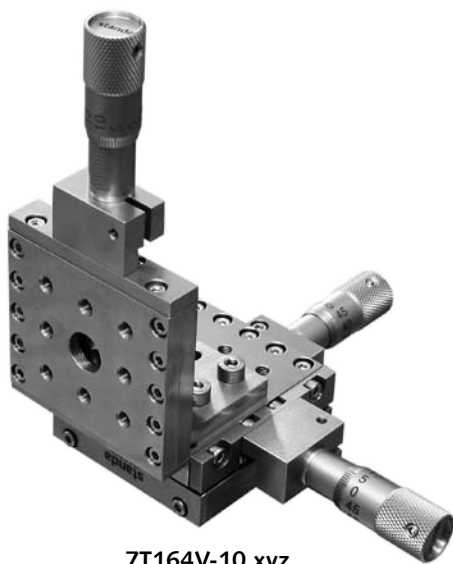
7T164-10T


- 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

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:	0.15 kg

Vacuum Torr 10⁻⁶ Compatible



7T164V-10 xyz

XY Stage **7T264V-10**,
for Z axis **7T164V-10** or **7T164V-10T** stages,
and angle bracket **2AB164V**



2AB164V



7T164V-10

ORDERING INFORMATION

for 7T164-10, 7T164-10T and 7T264-10 series

Translation stage	Angle Bracket	Base Plate
7T164-10 – steel version	2AB164 – steel version	3UBP – aluminium version
7T164SS-10 – stainless steel version	2AB164SS – stainless steel version	3UBPSS – stainless steel version
7T164V-10 – version for vacuum	2AB164V – version for vacuum	and version for vacuum

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

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.

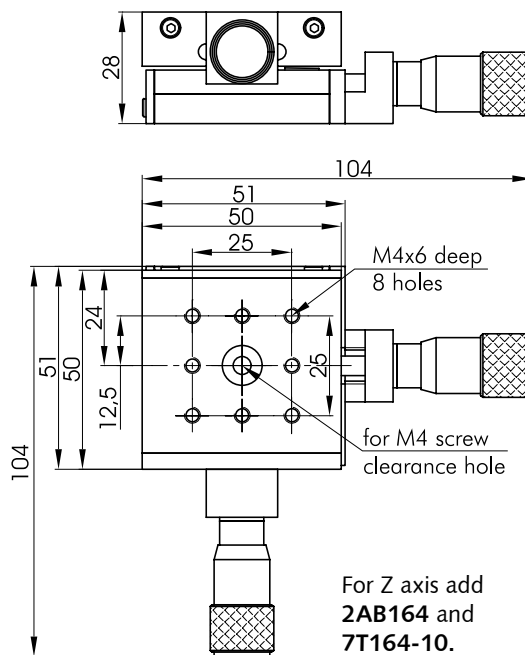
The travel of this Stage is **10 mm** with resolution **10 µm**.

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

For Z axis add
2AB164 and
7T164-10.



3UBP-01 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

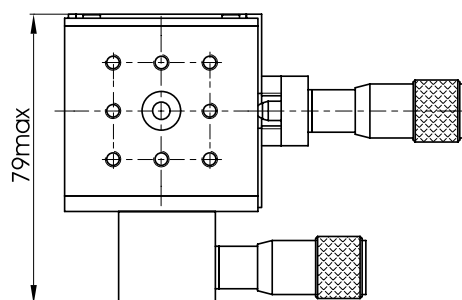


*A rare opportunity to control
an X-Y translation stage from one side!
Try it and feel the advantage!*

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**.

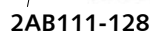
Weight – 0.38 kg



7T273-10T

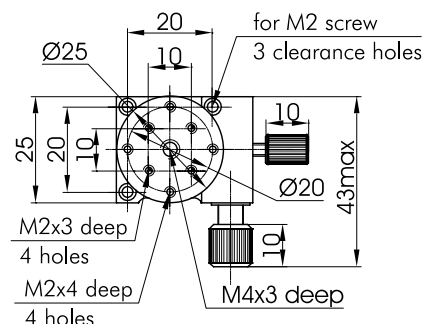
Other dimensions such as **7T273-10**

7R128

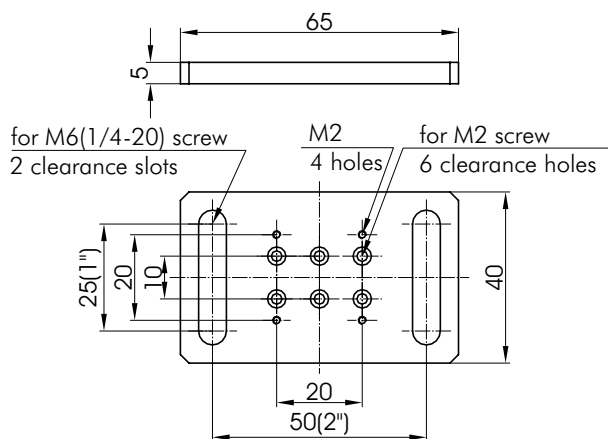


2AB111-128

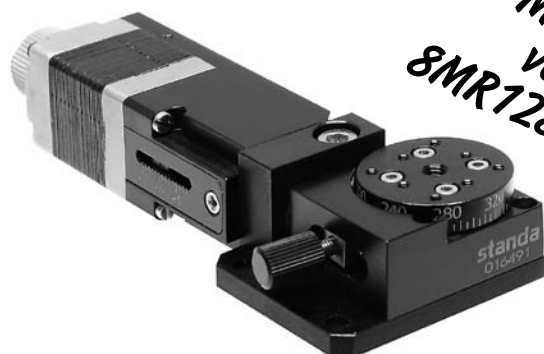
.....8



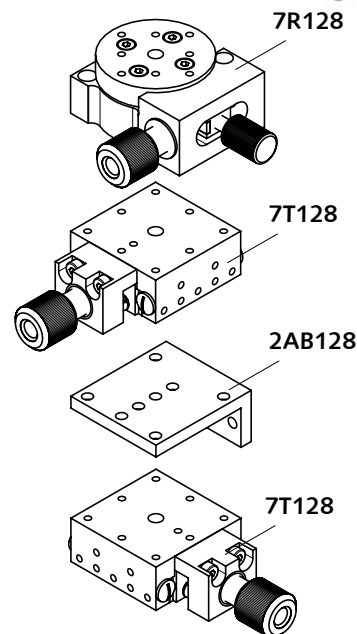
7R128-9S35-5
(with mini micrometer
9S35-5 installed)



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



**Motorized
version
8MR128 available**



7R128
stacked on 7T128 xy

Micro Translation Stage

7T128



7T128

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

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

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

Material: black anodized aluminium.



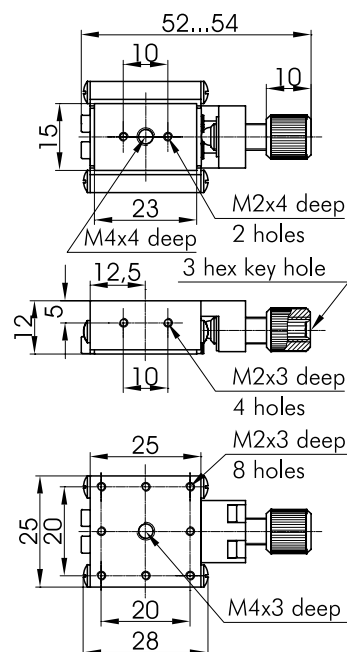
7T128



7T128 xy

SPECIFICATIONS

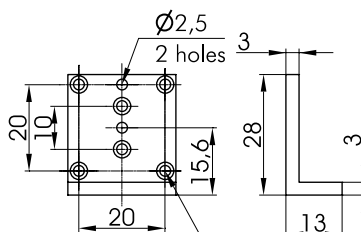
Travel range	5 mm
Sensitivity	1 μ m
Tracking accuracy	2 μ m
Load capacity:	
Horizontal	0.5 kg
Vertical	0.2 kg
Weight	0.04 kg



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



2AB128



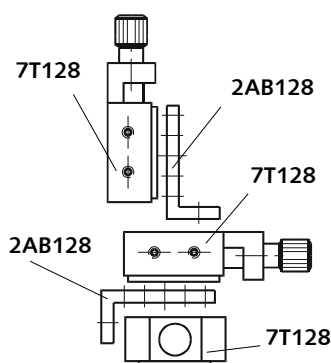
Angle Bracket 2AB128



7T128 xy



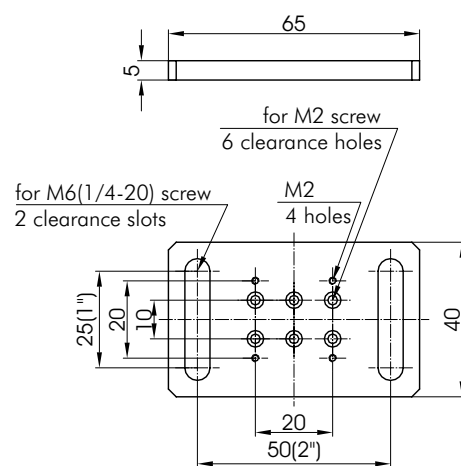
7T128 xyz



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.

e-mail: sales@standa.it

http://www.standa.it

Phone: +370-5-2651474

Fax: +370-5-2651483

standa

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.

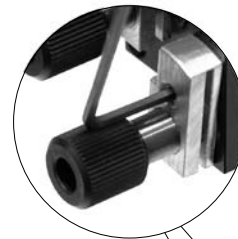

7T228T

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

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

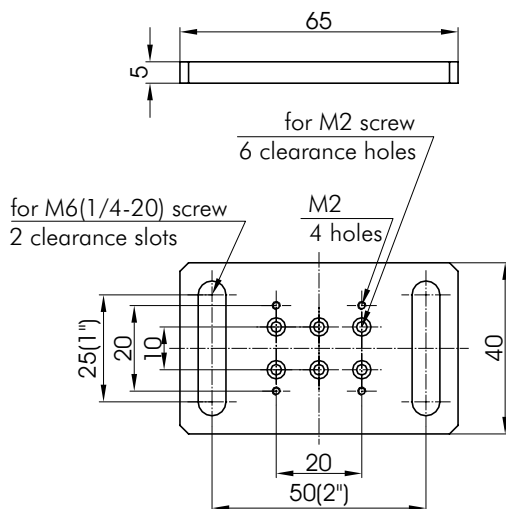
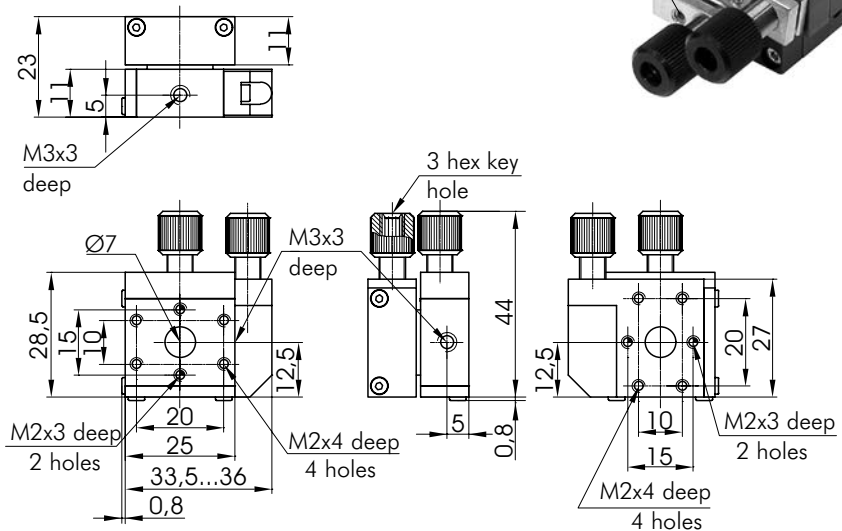
The driving screws are positioned so that the unit is **controlled only from one side**.

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**.


7T228TL
lockable version


SPECIFICATIONS

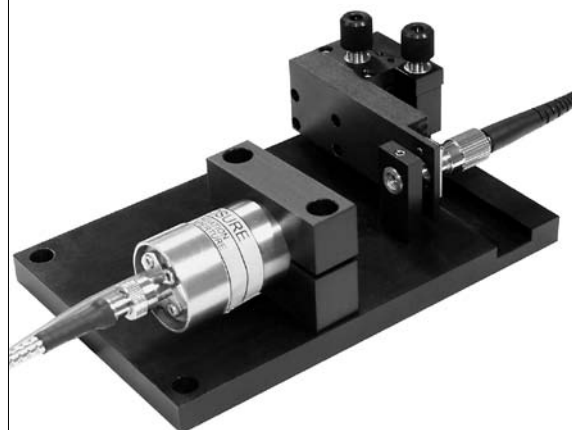
Travel range	4 mm
Sensitivity	1 µm
Tracking accuracy	2 µm
Load capacity:	
Horizontal	0.3 kg
Vertical	0.1 kg
Weight	0.06 kg



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



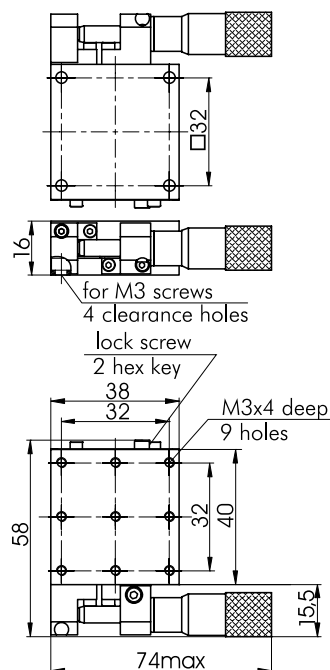
more information on Page 10-24

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 μ m
Angular deviation	< 200 μ rad
Tracking accuracy	2 μ m
Reading accuracy	5 μ m (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



e-mail: sales@standa.it

<http://www.standa.it>

Phone: +370-5-2651474

Fax: +370-5-2651483

standa

Aluminium Ball Bearing Vertical Stages

7VT174


- Travel range 5 mm and 10 mm
- Lockable
- Stacks directly with stages of 174 and 184 series

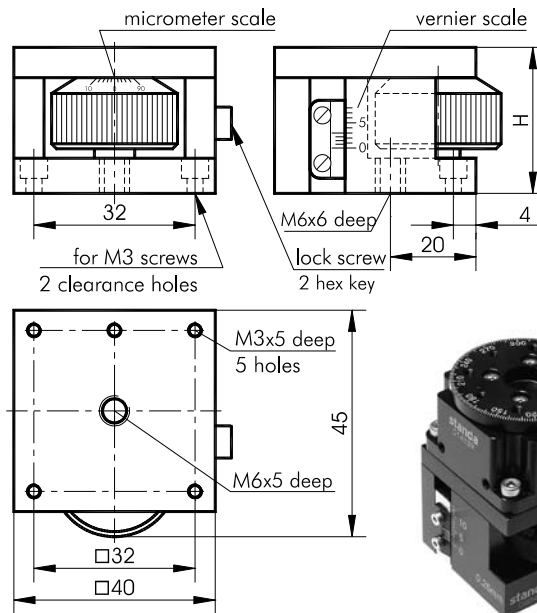
Adjustable
Height Post
Holder
5HP18
see page 5-32



Model	Travel, mm	H, mm	Weight, kg
7VT174-5	5	29...34	0.15
7VT174-10	10	35...45	0.17

SPECIFICATIONS

Sensitivity	1 μm
Tracking accuracy	1 μm
Reading accuracy	5 μm
Load capacity	3 kg
Material	Aluminium
Finish	Black anodized

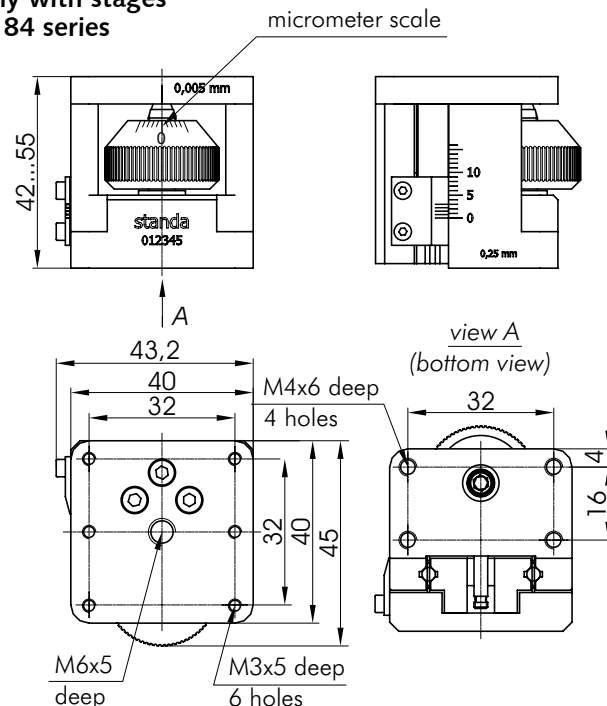


7VT174
stacked on
7VT174-5

Vertical Stage

7VT40-13


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


NEW

SPECIFICATIONS

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

Resolution up to 0.03 μm

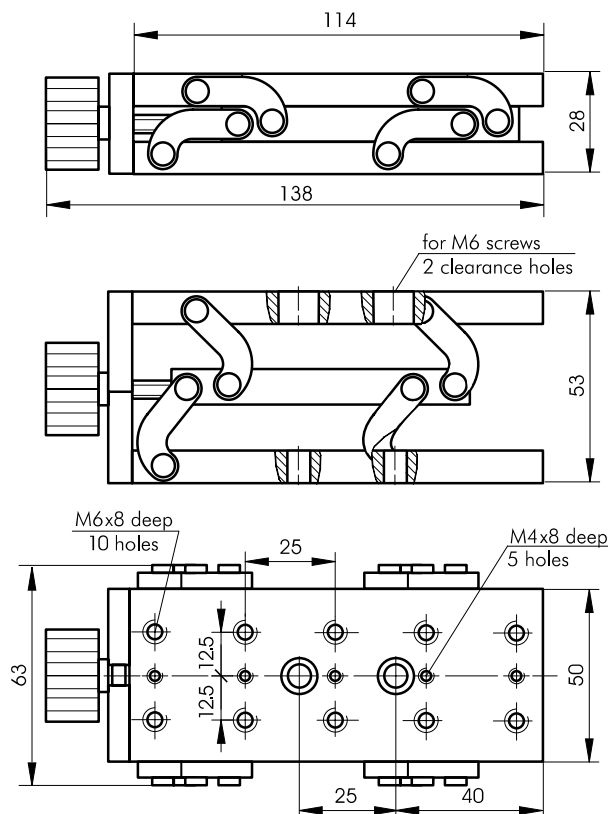
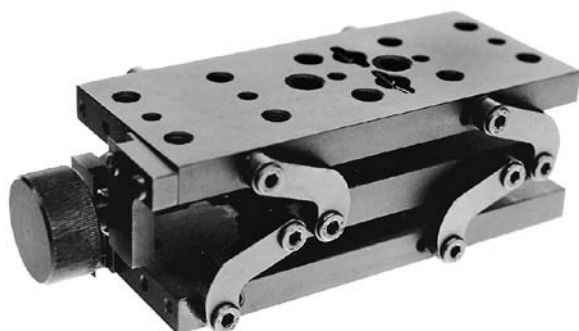
Specifications of Motorized Vertical Stage 8MVT40-13

See page 8-20



Adjustable Height Platform

7VT173-25



Adjustable Height Platform 7VT173-25 of original design is a stable **vertical** translation stage of **25 mm** travel range. Maximum load capacity – **3 kg**. A polished lead screw has **0.5 mm** pitch. It allows to define the height of a platform with **20 μ m** sensitivity.

Arrays of mounting holes **M6** and $\varnothing 6.5$ with **25 mm** spacing are identical on the upper and lower plates.

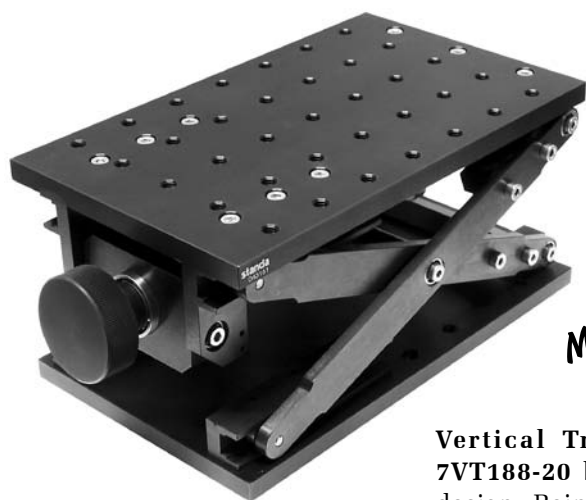
Adjustable Height Platform is ideal for use with **7T175-50** or **8MT175-50** Translation Stages when it is necessary to define one or two horizontal coordinates at a certain height.

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

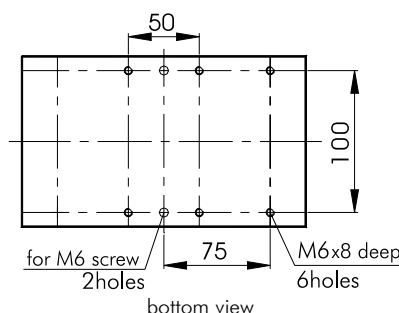
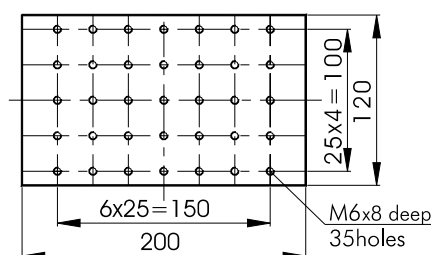
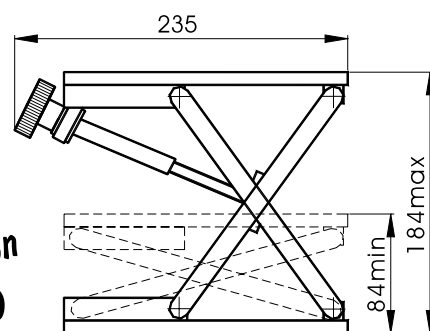
Weight **0.5 kg**

Vertical Translation Stage

7VT188-20



*Available
Motorized version
8MVT188-20*



Vertical Translation Stage 7VT188-20 boasts our unique design. Being very compact, it provides smooth and stable adjustment of height. It has a large travel range, and it supports large loads. While moving the platform stays parallel to the base.

The lead screw acts at a varying angle, so the resolution of the stage varies with position.

The platform has an array of **M6** holes spaced by **25 mm**. The base has **six M6** and **two $\varnothing 6.5$** holes.

Material: black anodized aluminium.

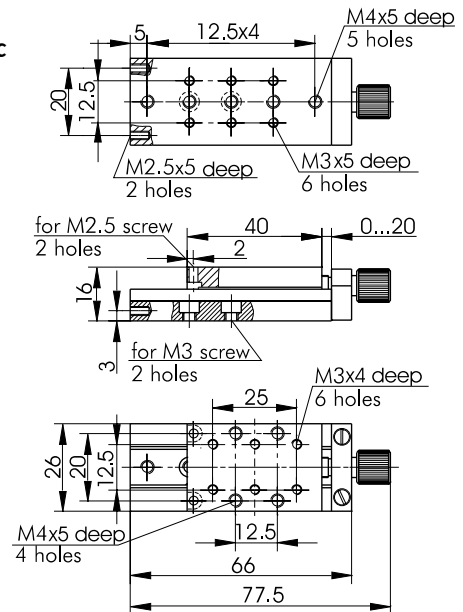
Weight **2.52 kg**

- Pantograph design
- 16 ball bearings
- Precision lead screw
- 100mm vertical travel
- Height: min 84 mm
max 184 mm
- Top and bottom plates parallel to 1 mm
- Load capacity 7 kg

Non-Magnetic Translation Stage

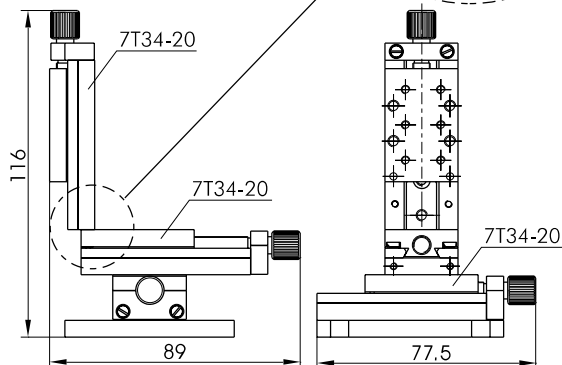
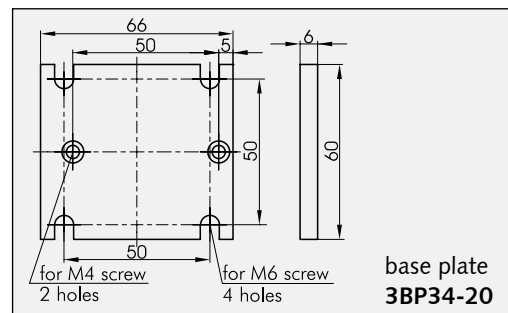
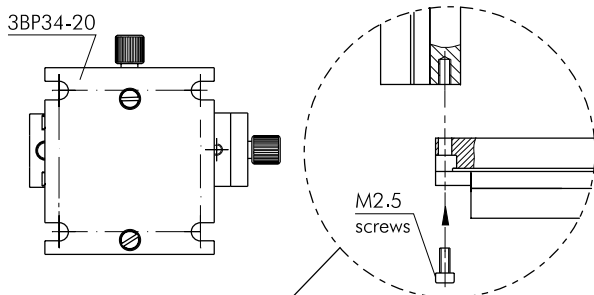
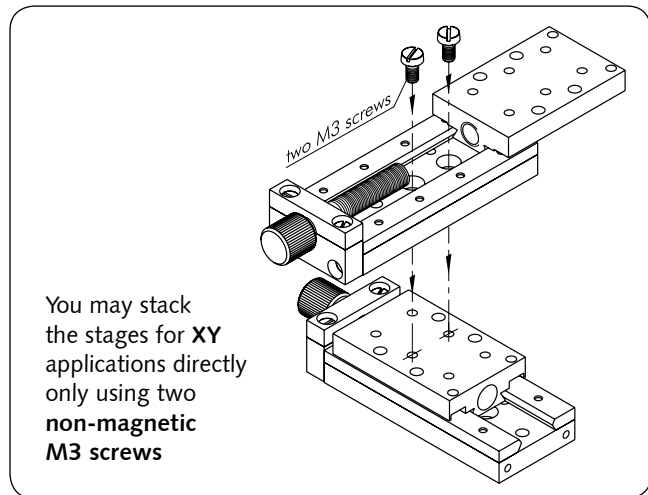
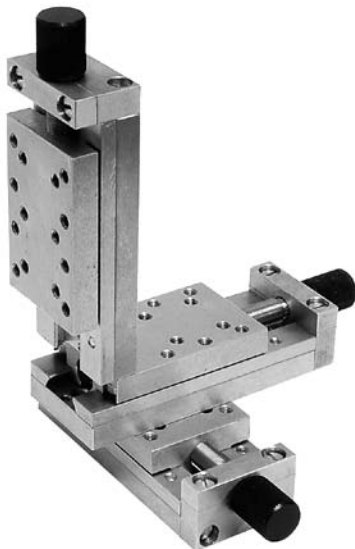
7T34-20


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

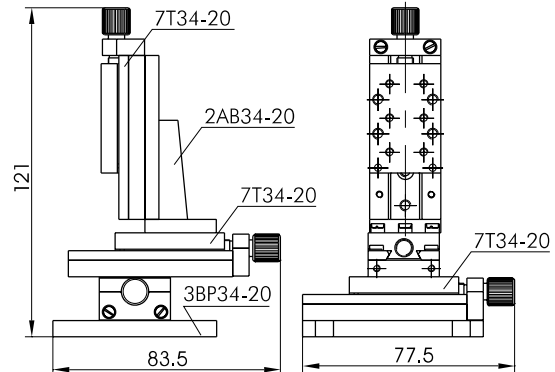


SPECIFICATIONS

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


7T34-20 xyz

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


7T34-20 xyz

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

Dovetail Linear Translation Stage

NEW

7T25-10



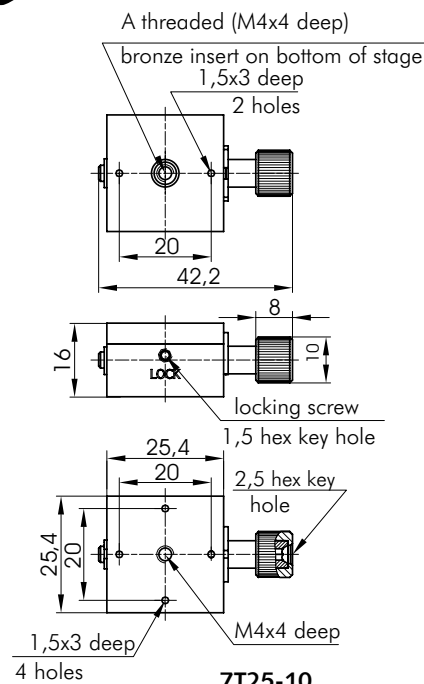
7T25-10

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.

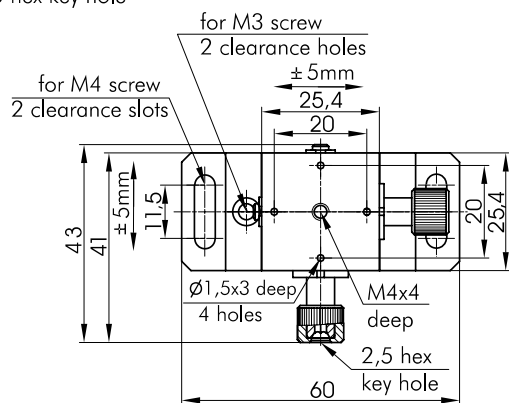
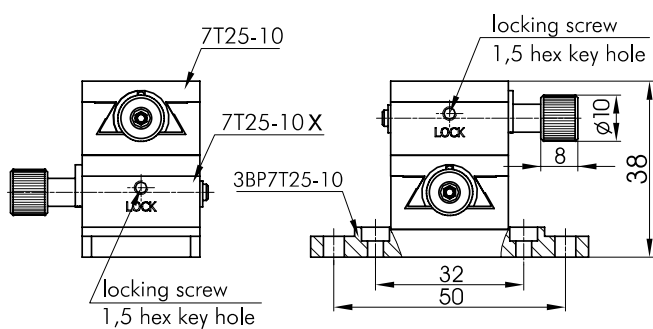
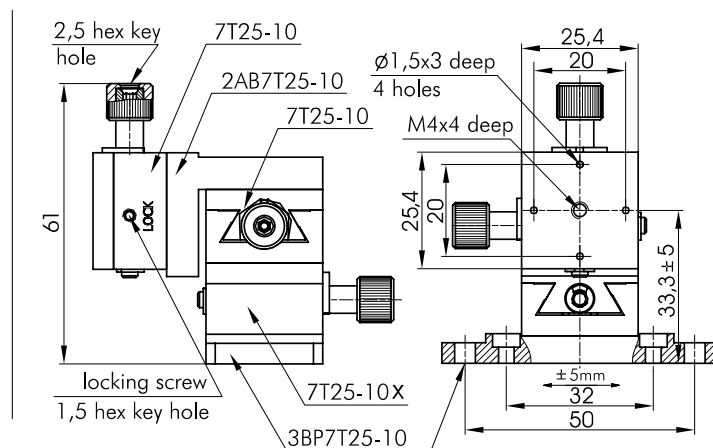
- Compact design
- Robust Dovetail Mechanism
- Rapid, Smooth Positioning
- Lockable Moving Platform
- XY Miniature Dovetail Stages

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	0.01 kg



7T25-10 xy



7T25-10 xyz



http://www.standa.it

e-mail: sales@standa.it

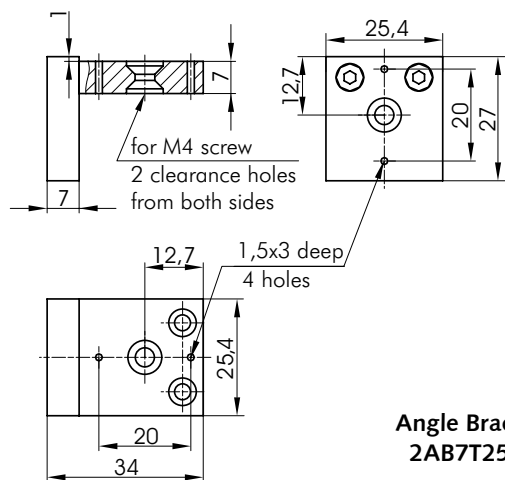


Fax: +370-5-2651483

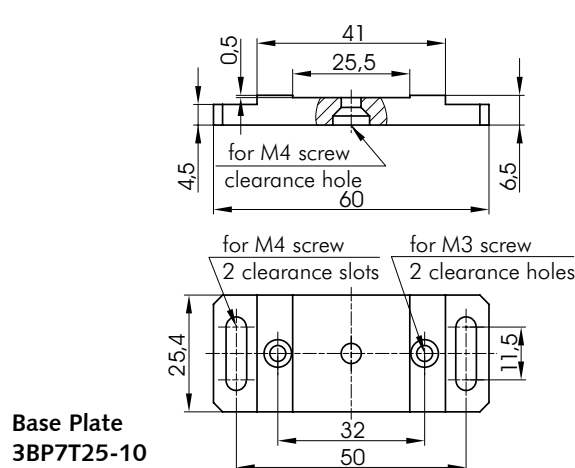
Phone: +370-5-2651474



standa



Angle Bracket
2AB7T25-10

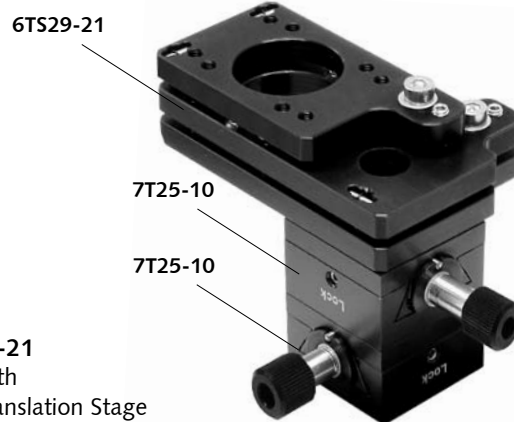


Base Plate
3BP7T25-10



6TS29-21

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



Other MODIFICATIONS are AVAILABLE!!!

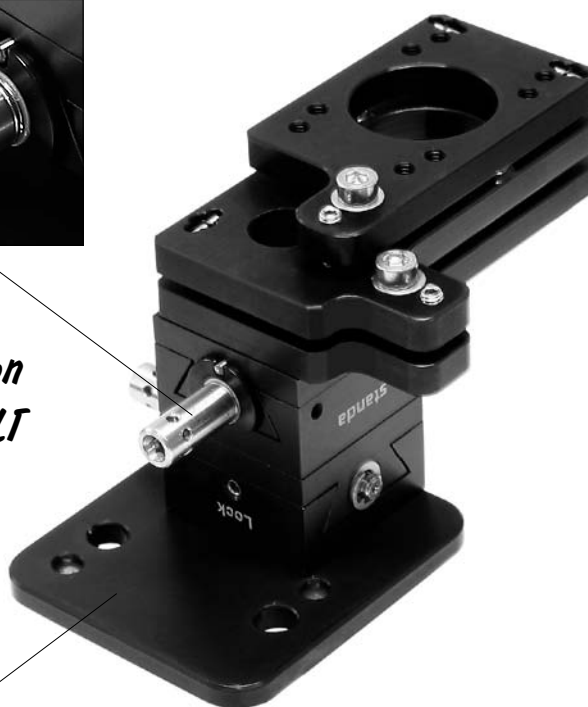
XY Custom stage with increased sensitivity actuators 7T25-10.08.01. Adjustment can be done using hex screw or, more conveniently and with higher sensitivity by using 6 holes in head of screw.



**Detailed information
at www.STANDA.LT**



Customer Base Plate



7-0005

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

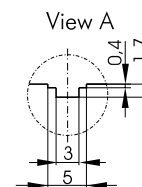
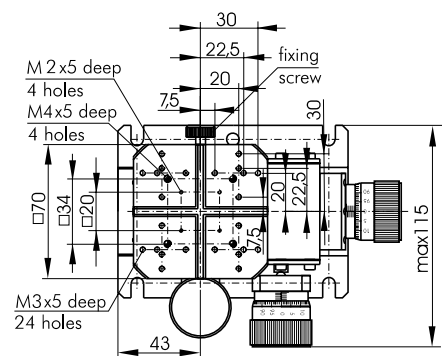
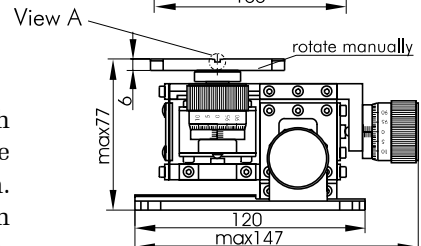
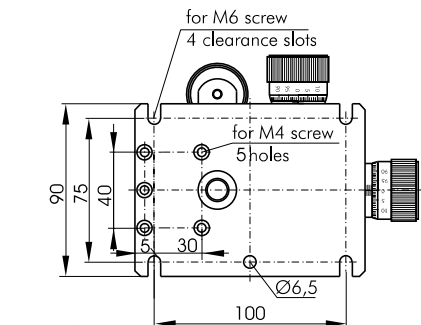
10

Light Test &
Measurement
Instruments

11



- Three axis
- Fiber coupling stage of flexure design
- Rotating platform on the top
- Compact block design
- Long-term stability
- Smooth motion



7TF2

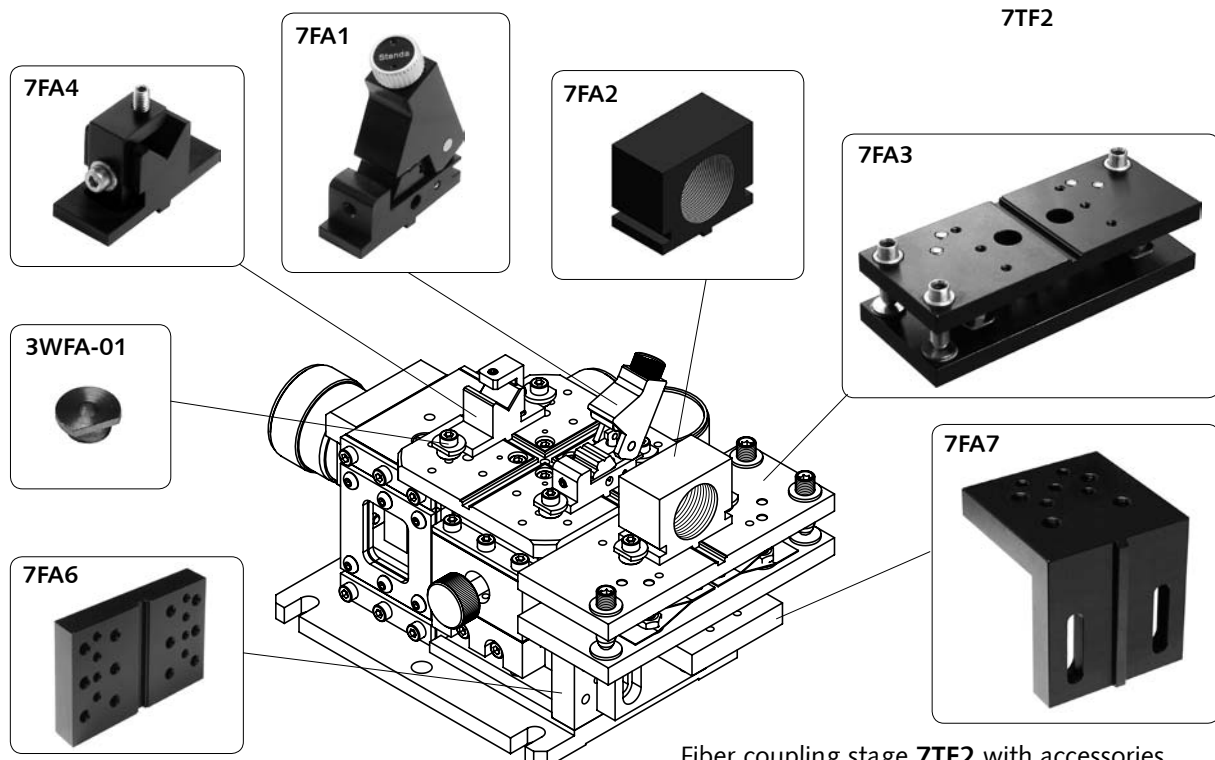
Flexure stages 7TF2 are ideal for high precision device manipulation. This stage suits almost any micropositioning applications range, for example, from fiber launch systems for singlemode, multimode and polarization maintaining fibers as well as waveguide alignment, through to the manipulation of microstructures in bioscience. **Fiber Coupling Stage** of flexure compact block design with high-resolution micrometers ensures long-termed stability

and good stiffness together with smooth motion without the severe limitations of stiction and friction. Flexure stages have a combination of overall size, travel, resolution, and low cost that makes them unique decision to meet the stringent requirements of photonics laboratory applications.

Vacuum compatible versions are delivered **on request**. Also as an option **fiber coupling stage** could be provided with **differential screws**.

SPECIFICATIONS

Travel range in each XYZ direction	2 mm
Sensitivity	0.2 μm
Reading accuracy	1.25 μm (1/2 division)
Cross-Talk	20 $\mu\text{m}/\text{mm}$
Mechanical stability	flexure design with Stainless Steel Spring
Load capacity	1.5 kg
Weight	1.6 kg



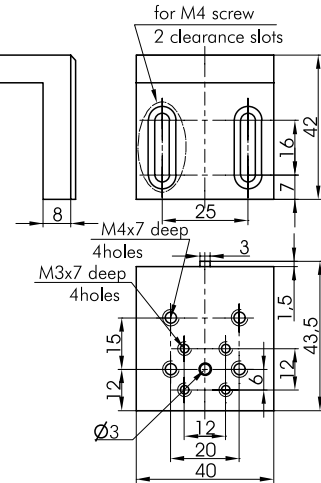
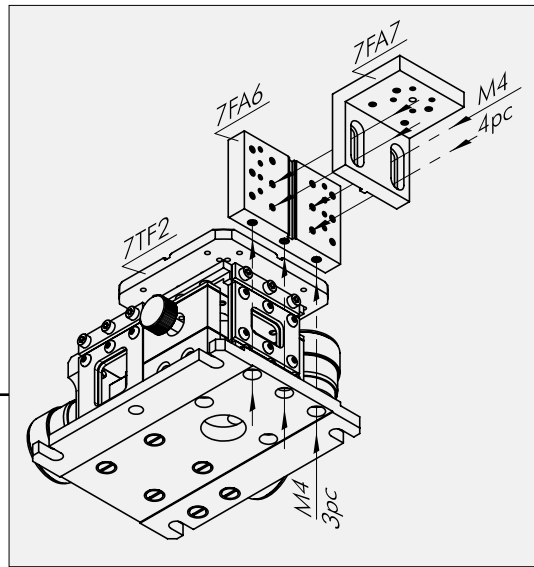
Fiber coupling stage **7TF2** with accessories

Fixed Angle Bracket

7FA7



– Compatible with 7TF2

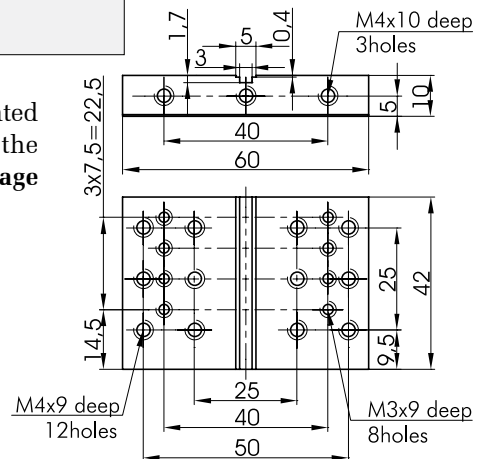


Adapter Plate



Fixed Angle Bracket 7FA7 is mounted through Adapter Plate 7FA6 to the fixed part of Fiber Coupling Stage 7TF2.

7FA6

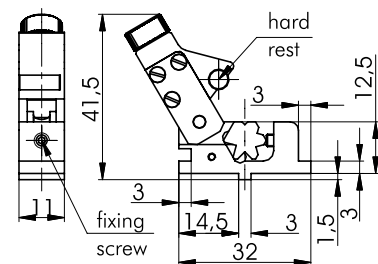


Adjustable Force Fiber Clamp

7FA1



- V-Grooved insert has 5 different V-Grooves and one flat surface
- V-Grooves are suitable for fibers or cylindrical optical elements in the range of 125 μm to 2 mm in diameter
- Adjustable force fiber clamping arm, 20 to 250 g
- Knob on the top is for adjusting the clamping force
- Compatible with 7TF2

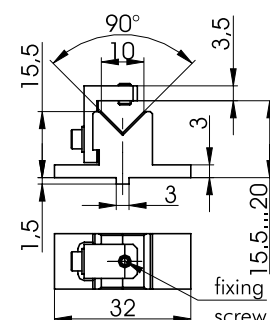


Fiber Cable Clamp

7FA4

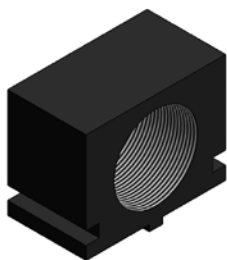


- This accessory prevents cabled fiber from being accidentally disturbed. Designed for cables fiber of 900 μm – 3 mm diameter
- Compatible with 7TF2

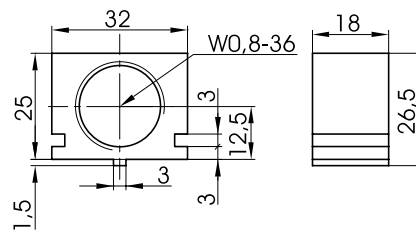


Microscope Objective Holder

7FA2



- Standard RMS
- Microscope objective thread
- Wide range of micro objectives (see page 10-2)
- Compatible with 7TF2



e-mail: sales@standa.it

http://www.standa.it

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

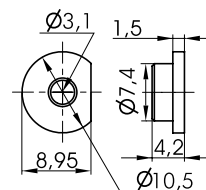
Lock-Down Clamp

3WFA-01



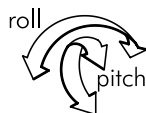
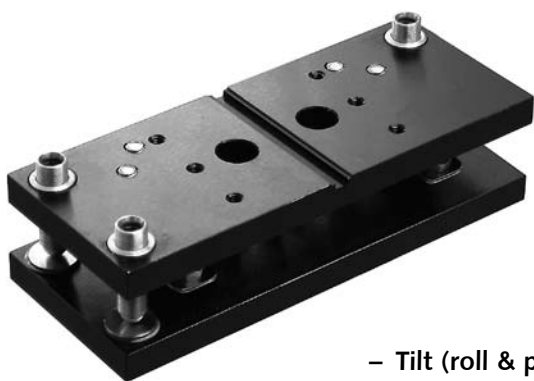
- Compatible with 7TF2

This clamps are used to fix the accessories to the mounting platform of the 7TF2.

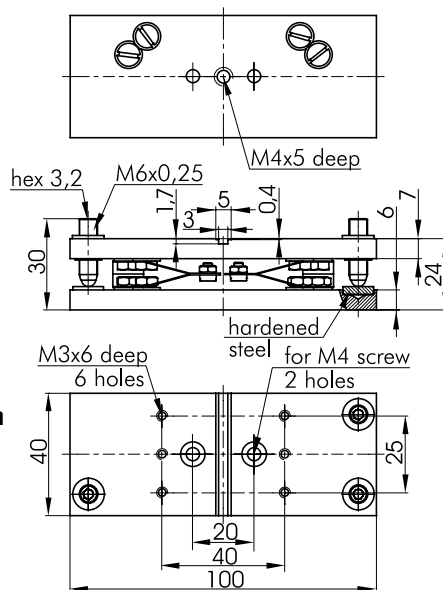


Roll & Pitch Tilt Platform

7FA3



- Tilt (roll & pitch) platform
- Travel in z axis: -2mm, +4mm
- Travel roll, pitch $\pm 4^\circ$
- Resolution 10arcsec
- Compatible with 7TF2

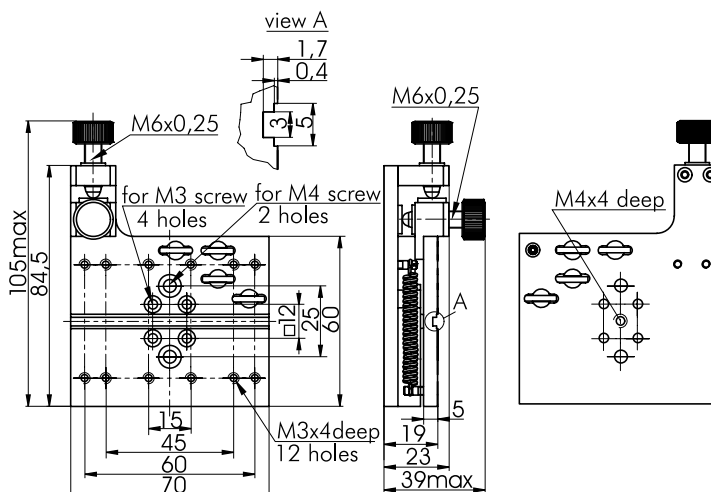
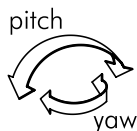


Pitch & Yaw Platform

7FA5



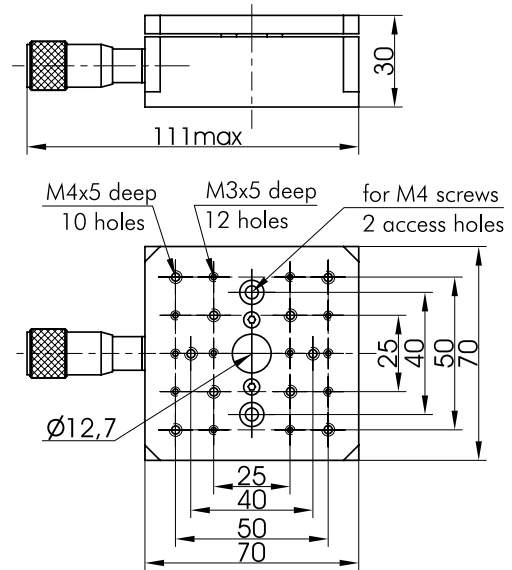
- Pitch yaw platform
- Yaw $\pm 4^\circ$
- Pitch $\pm 3^\circ$
- Resolution 10 arcsec
- Compatible with 7TF2



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.

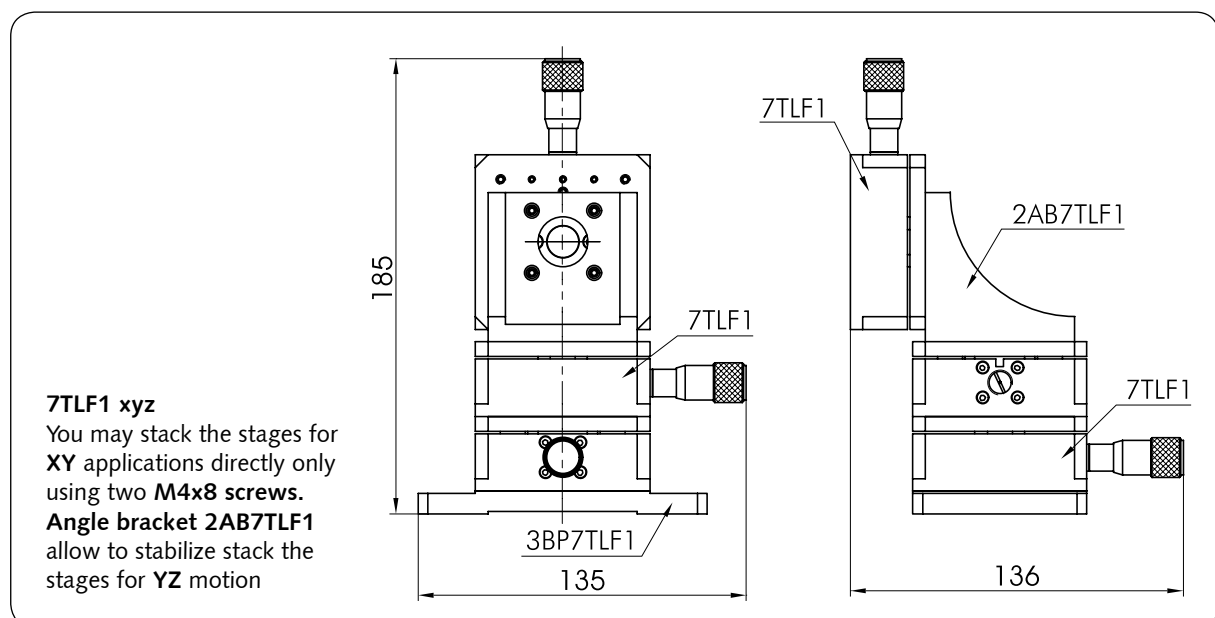
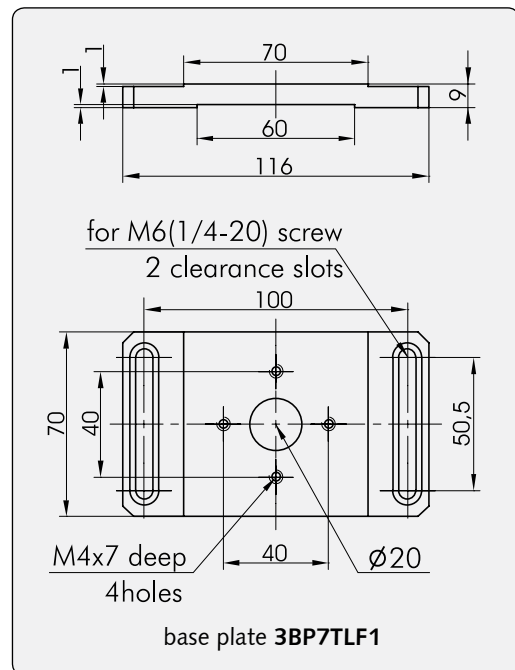
Extremely low friction.

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



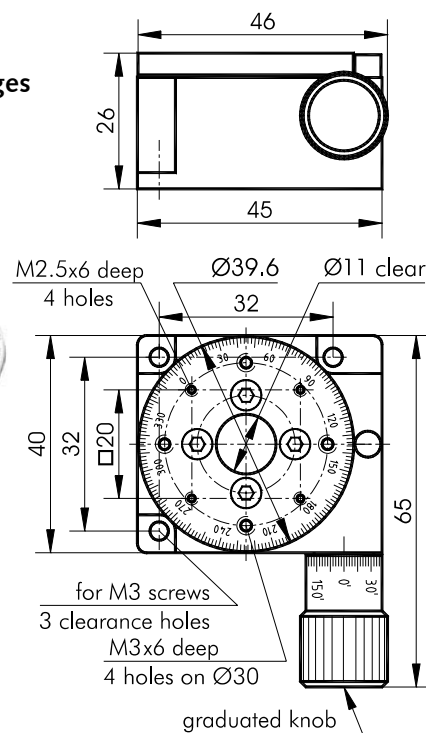
Mini Rotation Stage

7R174-11



- Worm gear design
- Ø11 mm clear aperture
- Stacks directly with stages of 174 and 184 series

Available
INCH version
7R174E-11



SPECIFICATIONS

Rotation range	360° (continuous)
Sensitivity	1 arcmin
Reading accuracy	3 arcmin
Wobble	1 arcmin
Eccentricity	10 μ m
Load capacity	
Horizontal	4 kg
Radial	1.5 kg
Clear aperture	Ø11 mm
Weight	0.14 kg



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

8MR174-11 (motorized rotation stage),
7T184-13 (2 pieces),
 and **7VT174** or **7VT40** stacked



7R174-11
stacked on
7T184-13

Base Plate from
3UBP series
page 3-6

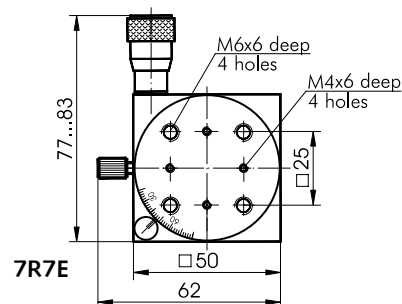
Mini Rotation Stage

7R7



SPECIFICATIONS

Rotation	coarse / fine
range	360° / 15°
resolution	1° / 1'
Load capacity:	
Horizontal	5 kg
Vertical	2 kg
Weight	0.23 kg
Wobble	3 arcmin



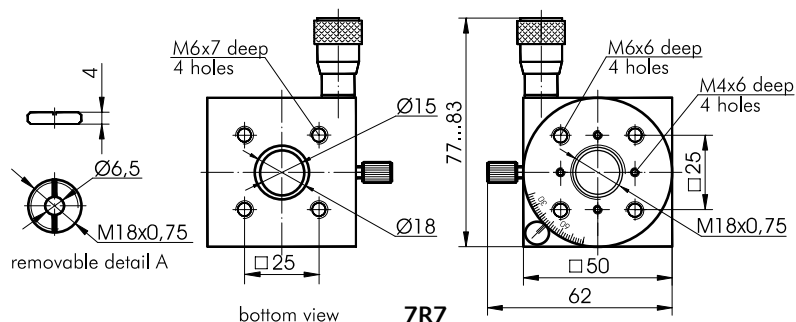
Mini Rotation Stage 7R7 provides smooth, low friction **360°** rotation.

A micrometer driving screw renders resolution of **1'**. A clear aperture of **Ø15 mm** allows attachment of lenses and filters directly in front of the stage.

A removable ring (included) can be screwed into the aperture. The ring's hole is of **Ø6.5 mm**, so you can put an **M6** screw from underneath to mount some component directly onto the stage.

7R7 can be mounted to optical rails using rail carriers. "Clear top" design allows attachment of larger components.

3BP7R7 base plate
for stacking **7R7**
to STANDA optical tables
or to another stages.



e-mail: sales@standa.it

<http://www.standa.it>

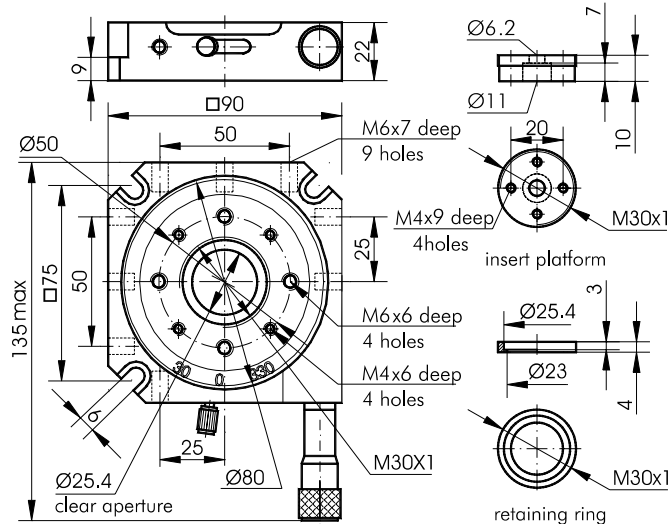
Phone: +370-5-2651474 Fax: +370-5-2651483

standa

Precision Rotary Stage

7R129


- M30x1 diameter platform insert
- Two 25 mm (1 inch) retaining rings
- Centered platform insert



We offer you a fine rotary stage with micrometer screw. Fine motion range is **15°** with resolution of **1 arcmin**. For coarse adjustment release the fixing screw and turn the platform.

The platform has mounting holes **M6**, **M4**.

It also has an aperture **M30x1** with clear aperture of **25 mm**. Two retaining rings with **1 inch** clear aperture are included.

To close the platform's aperture you can thread in an insert platform (included) with a centered clearance hole and **M6**, **M4** holes.

The stage can be fastened horizontally and vertically using **M6** screws.

SPECIFICATIONS

Rotation range	
coarse	360°, resolution 1°
fine	15°, resolution 1 arcmin
Sensitivity	20 arcsec
Reading accuracy	1 arcmin
Backlash max.	1 µm
Wobble	1 arcmin
Load capacity	
Horizontal	12 kg
Radial	5 kg
Max drive torque	0.3 kgm
Weight	0.63 kg

*Available
INCH version
7R129E*

2 inch Aperture Rotation Stage

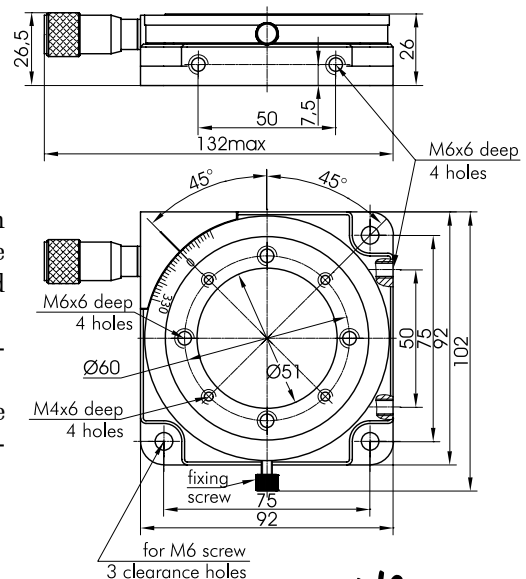
7R172-2


- Rolling ball movement
- 360° rotation
- 10° fine adjustment
- Ø50.8 mm (2") clear aperture

Angular position is read on 360° graduated **scale** on the platform, which is marked every 1°.

The stage has a central aperture of **Ø50.8 mm**.

For horizontal fastening three corners of the base have clearance holes for **M6** screws.



*Available
INCH version
7R172E-2*

2 inch Aperture Rotation Stage 7R172-2 allows full **360°** coarse rotation by hand. You may lock coarse adjustment. Then fine adjustment can be done over a range of **10°** using the micrometer.

SPECIFICATIONS

Rotation range	
fine:	10°, resolution 1 arcmin
coarse:	360°, resolution 1°
Sensitivity	20 arcsec
Reading accuracy	1 arcmin
Wobble	1 arcmin
Load capacity:	
Horizontal	15 kg
Radial	7 kg
Weight	0.58 kg



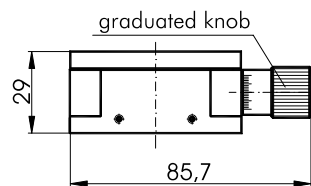
Vertical mounting: 2 sides of the base each has two **M6** holes spaced by 50 mm.



7R150-1

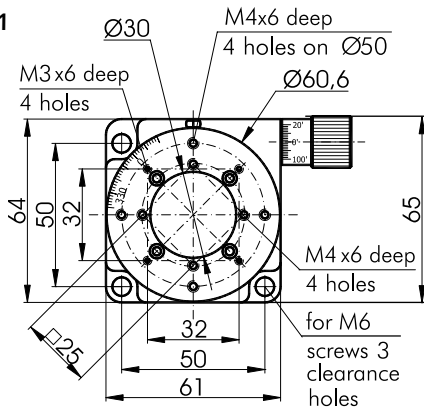
7R150-1 has M27x1 for 1" optics mounting (Ø23 mm clear aperture).

7R150-30 has a 30 mm aperture in the platform.

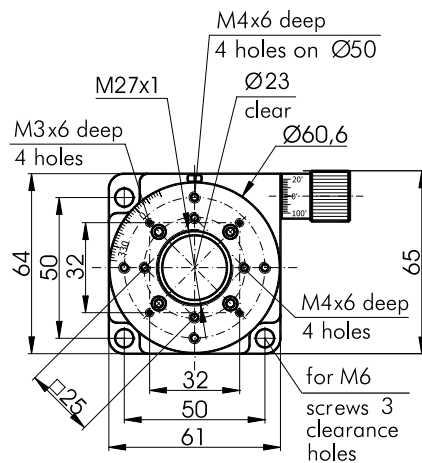


SPECIFICATIONS

Rotation Range	360°
Sensitivity	0.4 arcmin
Reading accuracy	2 arcmin
Resolution	2 arcmin
Wobble	0.6 arcmin
Eccentricity	10 µm
Load capacity	
Horizontal	8 kg
Radial	1.7 kg
Weight	0.55 kg



7R150-30



7R150-1

AVAILABLE MOTORIZED VERSION 8MR151

Rotation Stage of Big Platform

7R171-200



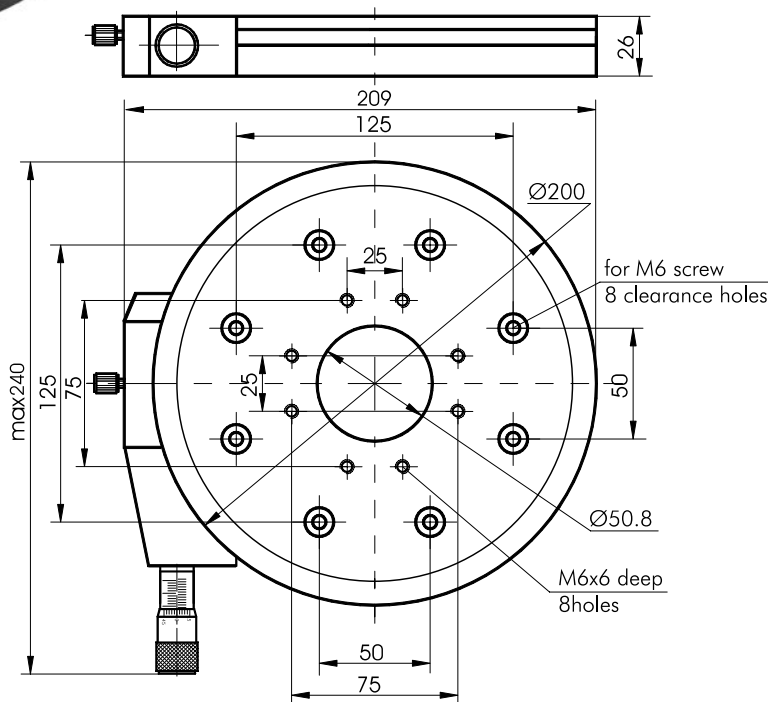
The Rotation Stage of Big Platform 7R171-200 is used to rotate manually large optical components through continuous 360° with accuracy of 1°, and finely adjust them within 10° by a micrometer, with accuracy of 0.5 arcmin.

The stage has 50.8 mm clear aperture. The platform has a pattern of M6 mounting holes for components.

- 200 mm platform
- 360° rotation
- 10° Fine adjustment
- Ø50.8 mm (2") clear aperture

SPECIFICATIONS

Rotation range	
coarse	360°
fine	10°
Reading accuracy	0.5 arcmin
Sensitivity	0.1 arcmin
Wobble	1 arcmin
Load capacity	
Horizontal	15 kg
Weight	2.55 kg

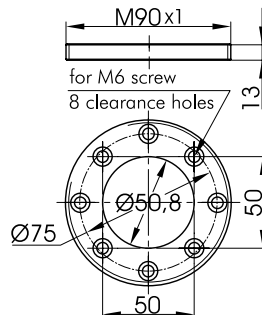


Rotation Stage of Big Platform

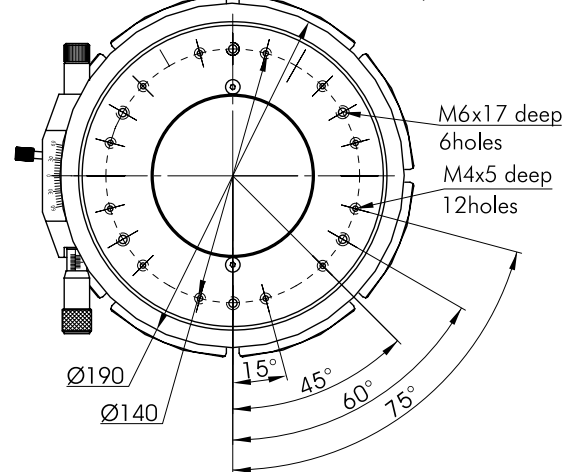
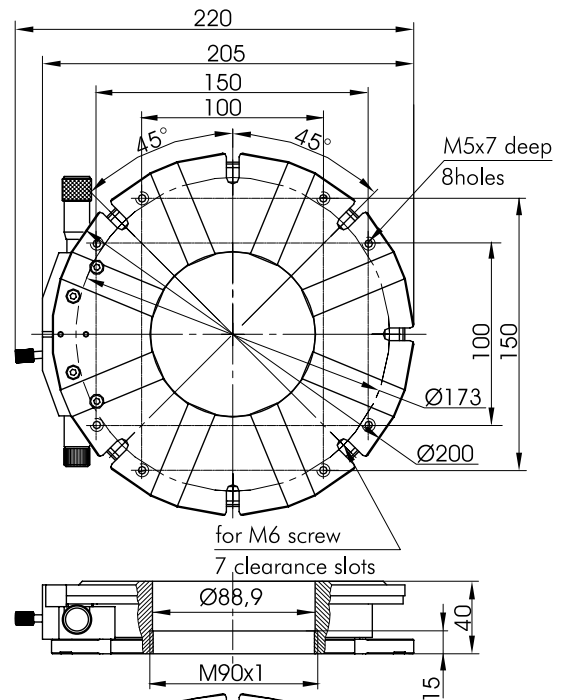
7R170-190



- 190 mm platform
- 360° rotation
- 10° Fine adjustment
- Ø88.9 mm clear aperture
- Available for vacuum (7R170-190V)



an insert base plate
for 7R170-190



The Rotation Stage of Big Platform 7R170-190 is used to rotate manually large optical components through continuous **360°** with accuracy of **1°**, and finely adjust them within **10°** by a micrometer, with accuracy of **0.5 arcmin**.

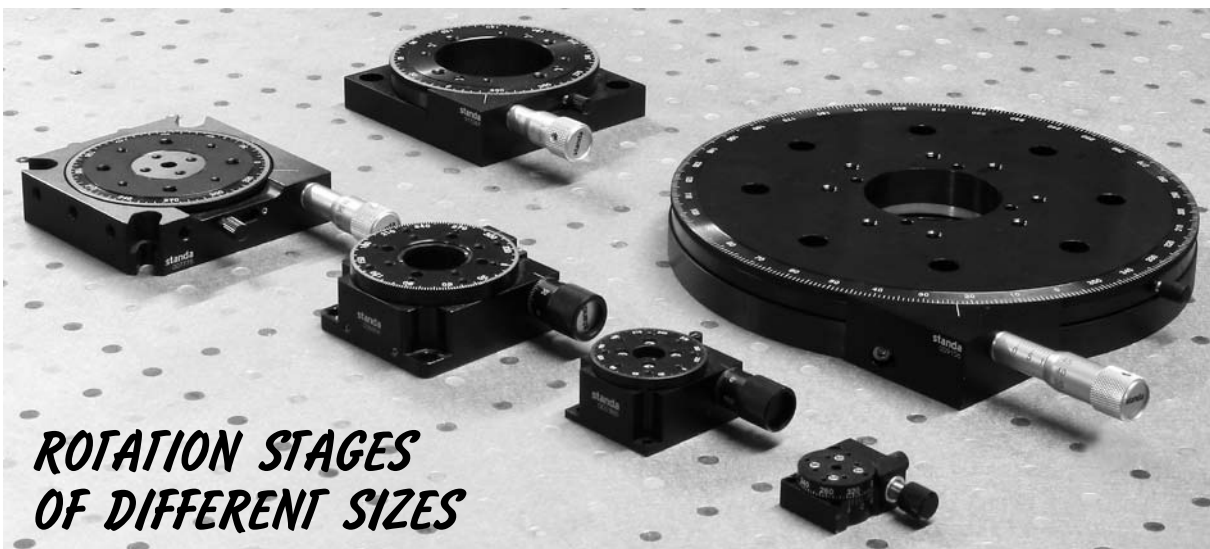
The stage has **88.9 mm** clear aperture. The platform has a pattern of **M6** and **M4** mounting holes for components.

SPECIFICATIONS

Rotation range	
coarse	360°
fine	10°
Reading accuracy	0.5 arcmin
Sensitivity	0.1 arcmin
Wobble	1 arcmin
Load capacity	
Horizontal	60 kg
Material	Aluminium
Finish	Black anodized
Weight	3 kg

*Available
INCH version
7R170E-190*

AVAILABLE MOTORIZED VERSION 8MR170-190



**ROTATION STAGES
OF DIFFERENT SIZES**



http://www.standa.it

e-mail: sales@standa.it



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



standa



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

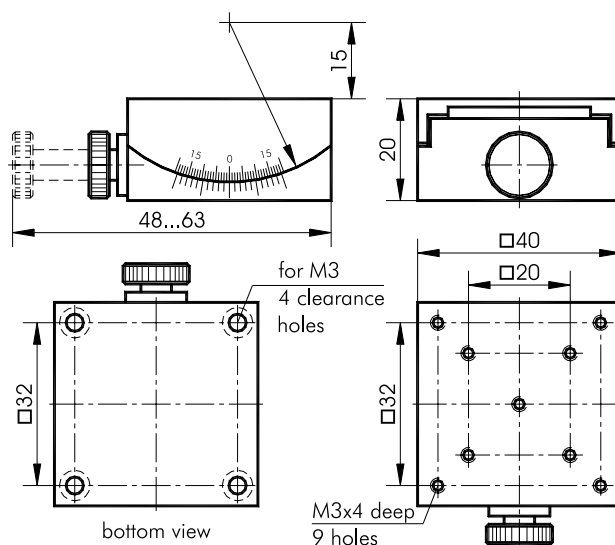
8
Fine
Adjustment
Screws

9
Opto-
Mechanics &
Sets

10
Light Test &
Measurement
Instruments

Small Goniometer

7G174-30



SPECIFICATIONS

Rotation range	±15°
Reading resolution	0.1° (vernier scale)
Drive geometry	Lever (tangential)
Driving screw pitch	0.25 mm
Transmission ratio	0°27'59"...0°30'45"
ratio decimal	0.4665°...0.5126°
(the ratio is per revolution)	
Load capacity: horizontal	1 kg
Material	Aluminium
Finish	Black anodized
Weight	0.1 kg

Available for vacuum!



7T67V-25



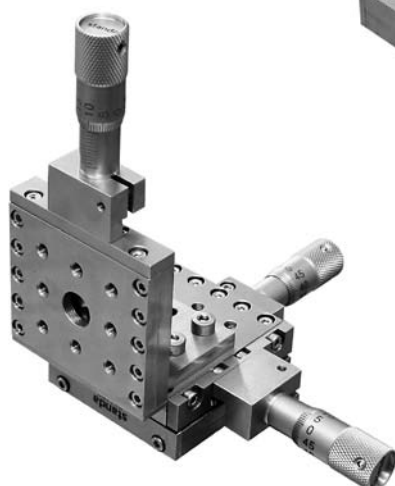
7T67V-6-9SH137ML



7T67V-25 xyz



7T164V-10



7T164V-10 xyz



7R170V-190

*more info on
www.standa.it*

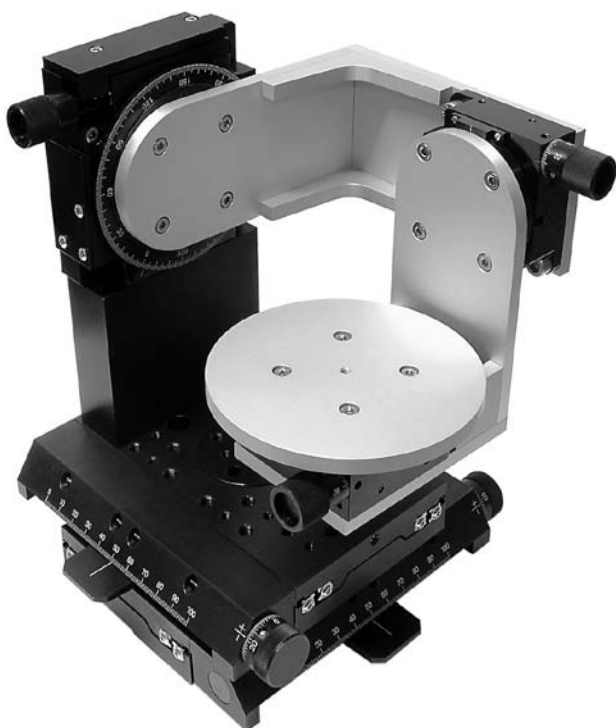
e-mail: sales@standa.it

http://www.standa.it

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

standa

10NMC-1 5 Axis Manual Motion System



10MS-2R200 2 Axis Motorized Motion System



Detailed information available at

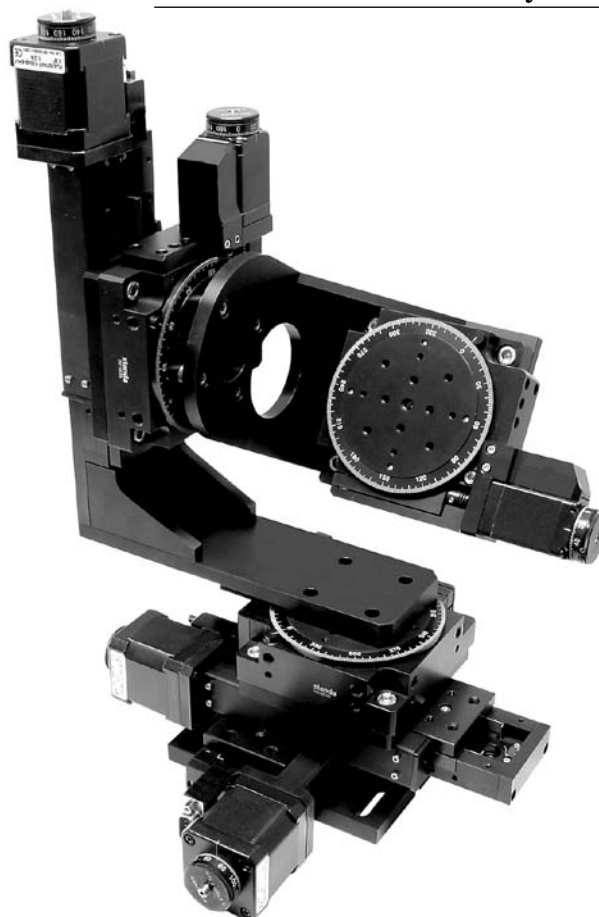
CUSTOM ENGINEERING and DESCRIPTION

WWW.STANDA.LT/PRODUCTS/CATALOG/CUSTOM_ENGINEERING

10RSB-081658 5 Axis Motorized Motion System



8MT175-50XYZ-8MR191-28-3 6 Axis Motorized Motion System



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