

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

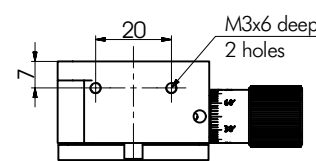
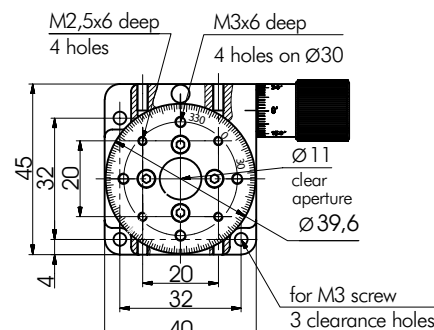
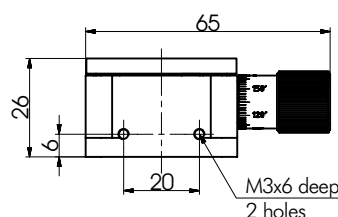
SPECIFICATIONS

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



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

Base Plate from
3UBP series
Page 3-6



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



7R174-11
stacked on
7T184-13

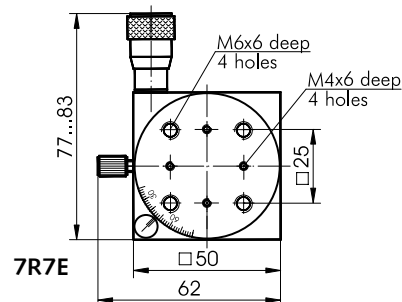
Mini Rotation Stage

7R7



SPECIFICATIONS

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



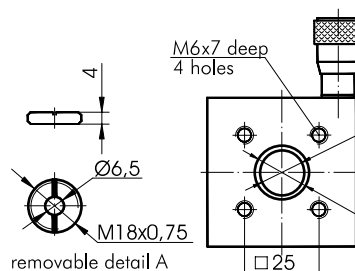
Mini Rotation Stage 7R7 provides smooth, low friction 360° rotation.

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.

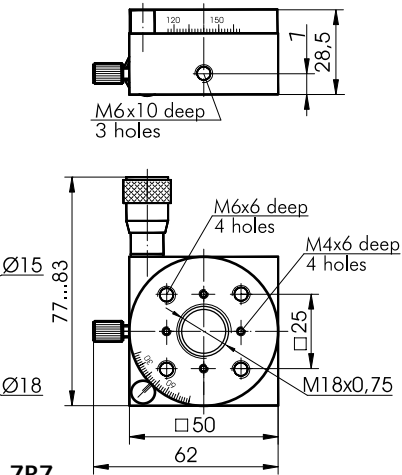
A removable ring (included) can be screwed into the aperture. The ring's hole is of Ø6.5 mm, so you can put an M6 screw from underneath to mount some component directly onto the stage.

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.



bottom view



standa

e-mail: sales@standa.it

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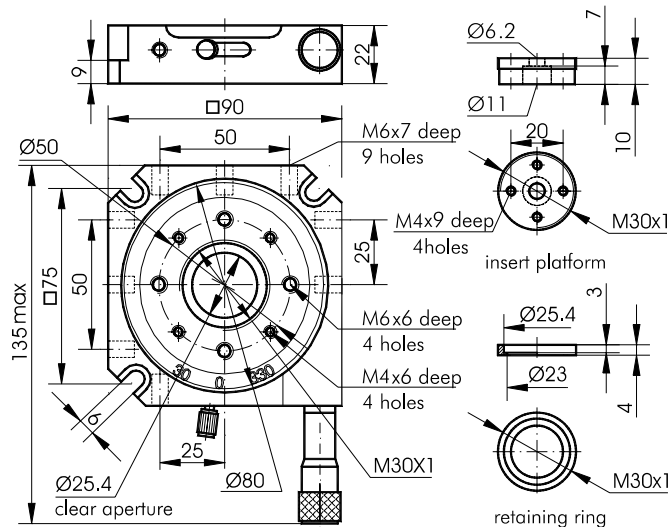
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Precision Rotary Stage

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
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

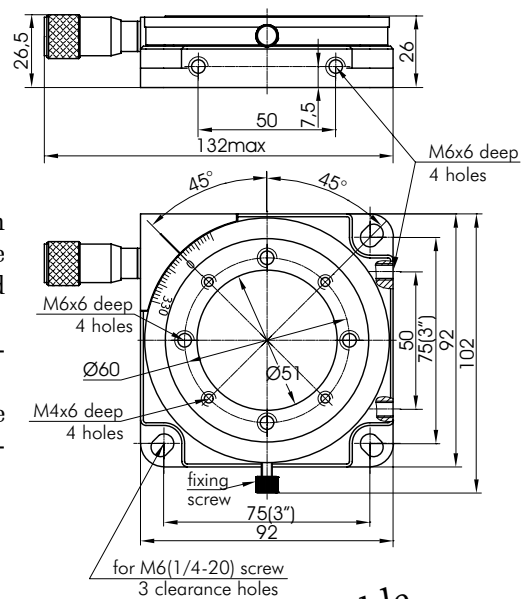
7R172-2


- 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.



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



Available
INCH version
7R172E-2

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

Optical
Tables1
Brackets
& Rails2
Base
Mounts &
Accessories3
Optical
Mounts4
Optical
Positioners5
Base
Positioners6
Translation &
Rotation
Stages7
Motorised
Positioners &
Controllers8
Fine
Adjustment
Screws9
Opto-
Mechanics &
Sets10
Light Test &
Measurement
Instruments11
Lasers &
Accessories

12

Rotation Stages

Available
INCH version
7R150E

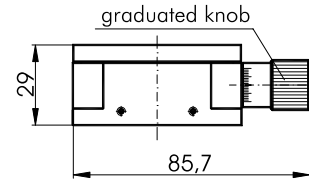
7R150-1 • 7R150-30



7R150-1

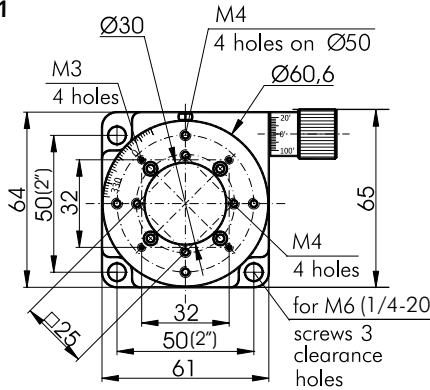
7R150-1 has M27x1 for 1" optics mounting (Ø23 mm clear aperture).

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

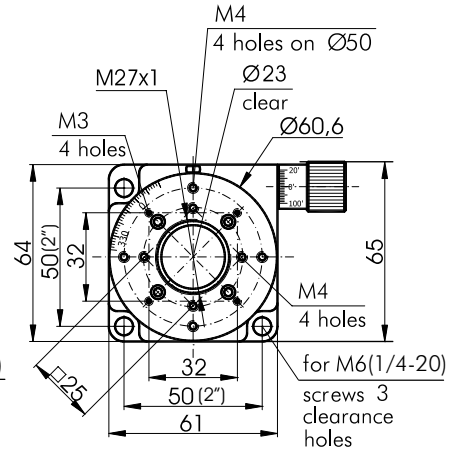


SPECIFICATIONS

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**

page 8-49

Rotation Stage of Big Platform

7R171-200



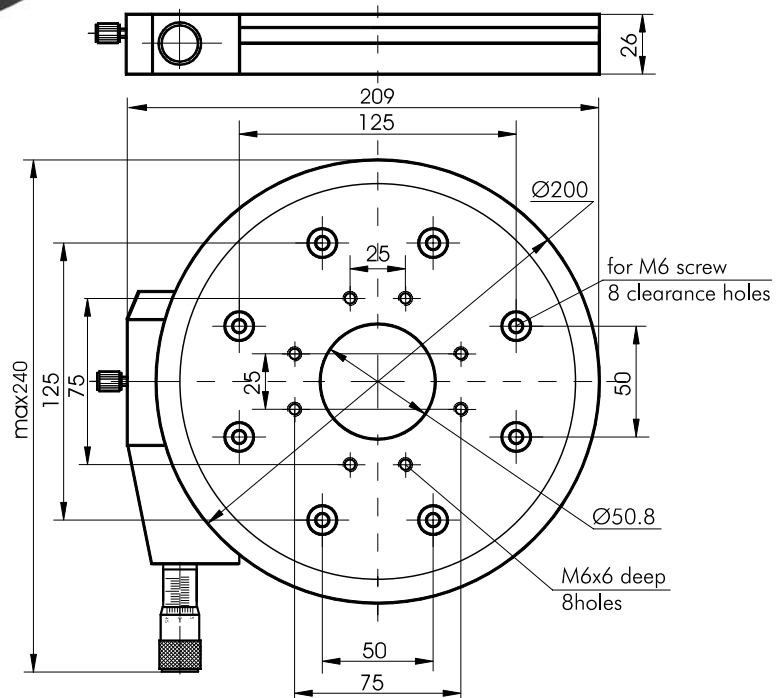
The **Rotation Stage of Big Platform 7R171-200** is used to rotate manually large optical components through continuous **360°** with accuracy of **1°**, and finely adjust them within **10°** by a micrometer, with accuracy of **0.5 arcmin**.

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

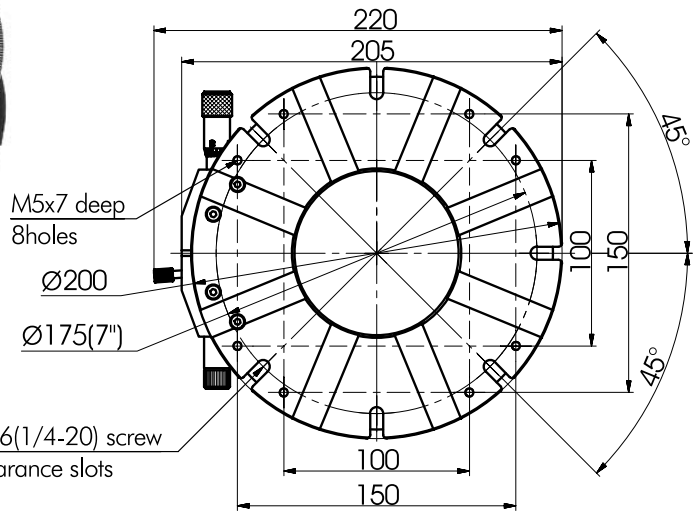
Rotation range	
coarse	360°
fine	10°
Reading accuracy	0.5 arcmin
Sensitivity	0.1 arcmin
Wobble	1 arcmin
Load capacity	
Horizontal	15 kg
Weight	2.55 kg



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)

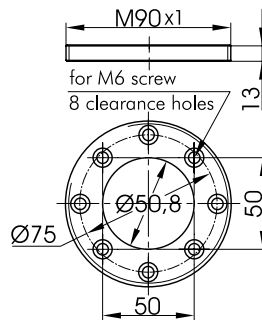


The Rotation Stage of Big Platform 7R170-190 is used to rotate manually large optical components through continuous **360°** with accuracy of **1°**, and finely adjust them within **10°** by a micrometer, with accuracy of **0.5 arcmin**.

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

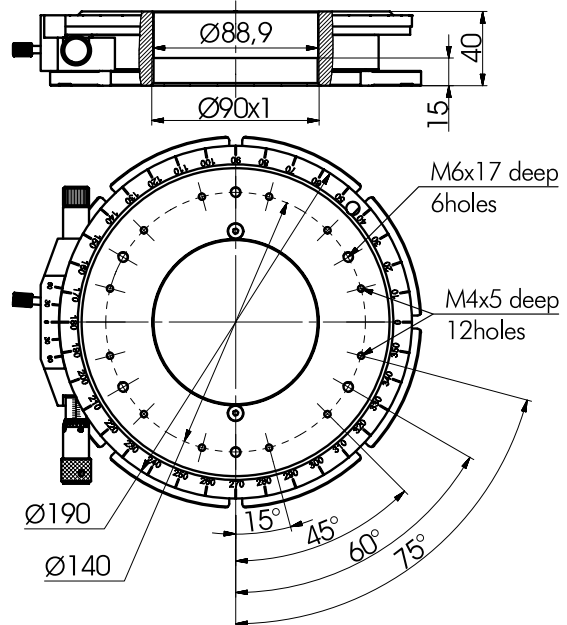
SPECIFICATIONS

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

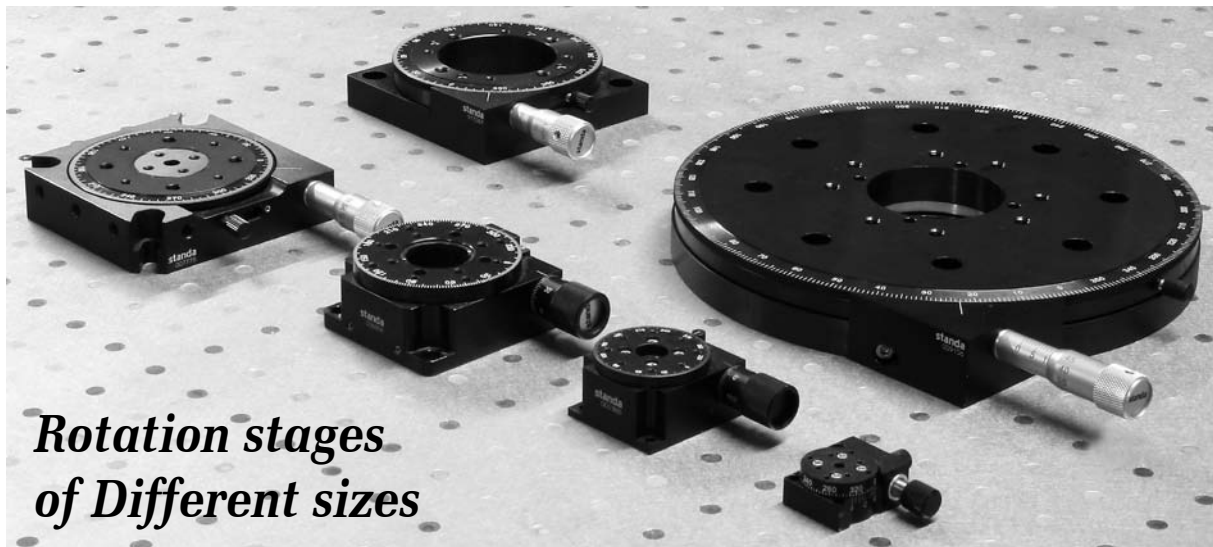


an insert base plate
for 7R170-190

Available
INCH version
7R170E-190

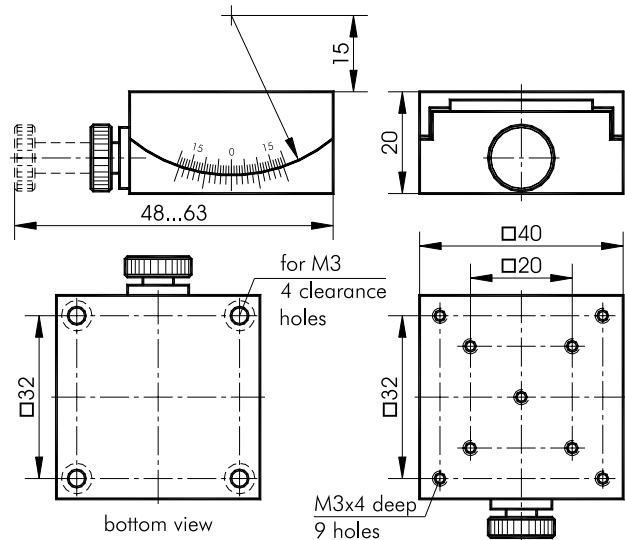


Available Motorized Version **8MR170-190**



*Rotation stages
of Different sizes*

Small Goniometer

7G174-30


SPECIFICATIONS

Rotation range	$\pm 15^\circ$
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!**



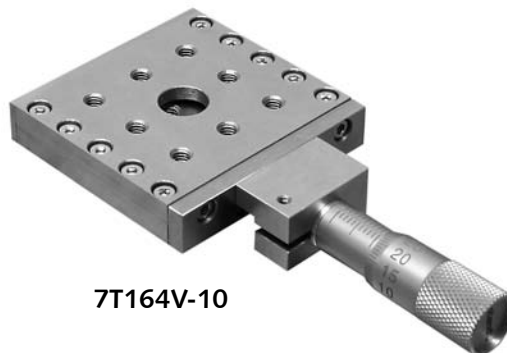
7T67V-25



7T67V-25XYZ

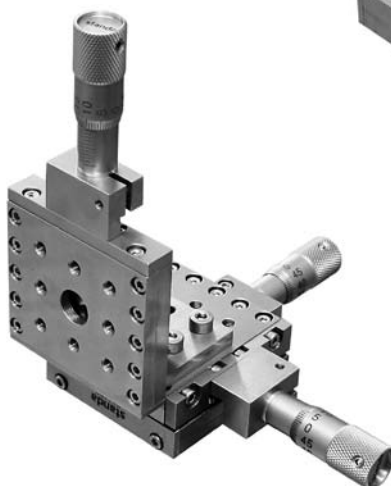


7T67V-6-9SH137ML



7T164V-10

more info on
www.standa.it

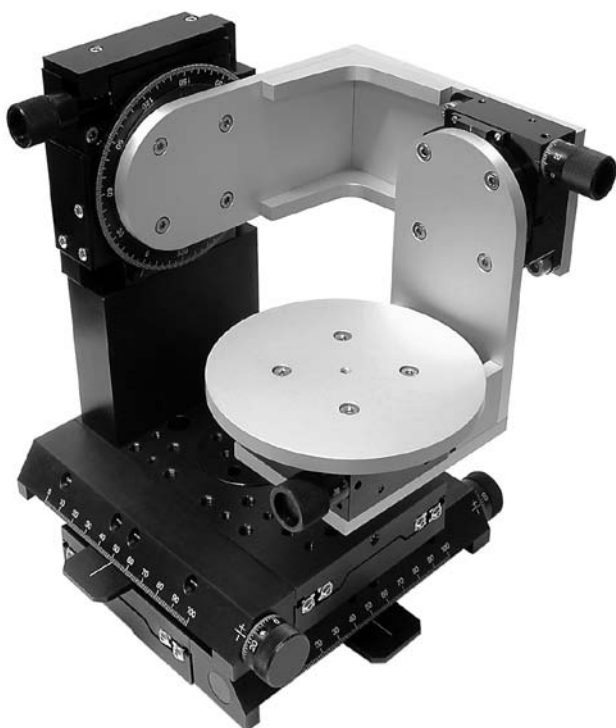


7T164V-10XYZ



7R170V-190

10NMC-1 5 Axis Manual Motion System



10MS-2R200 2 Axis Motorized Motion System



Detailed information available at

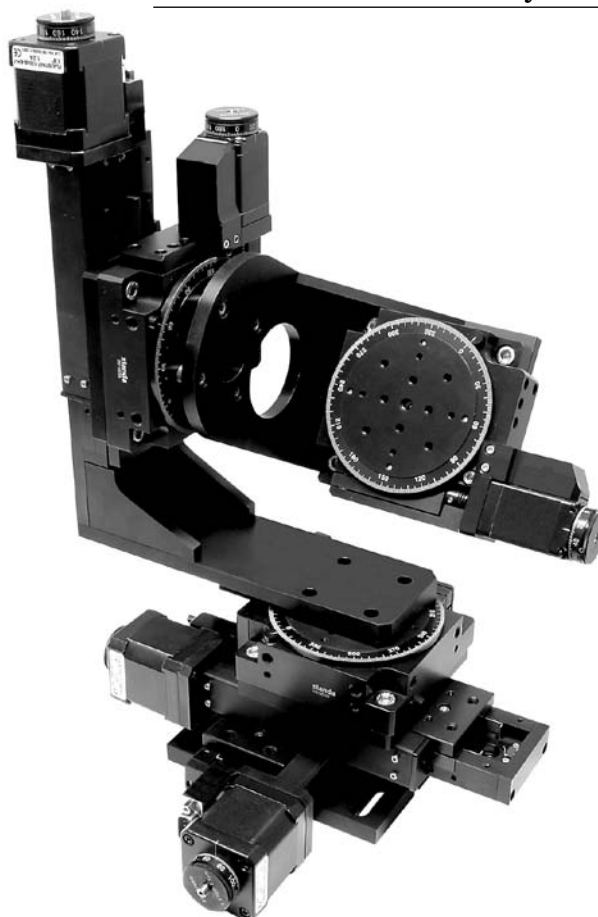
CUSTOM ENGINEERING and DESCRIPTION

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

Lasers &
Accessories

12

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