



## Mini Rotation Stage



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

Available  
INCH version  
**7R174E-11**

## SPECIFICATIONS

	Base Mounts & Accessories	Brackets & Rails	Optical Tables	1
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			

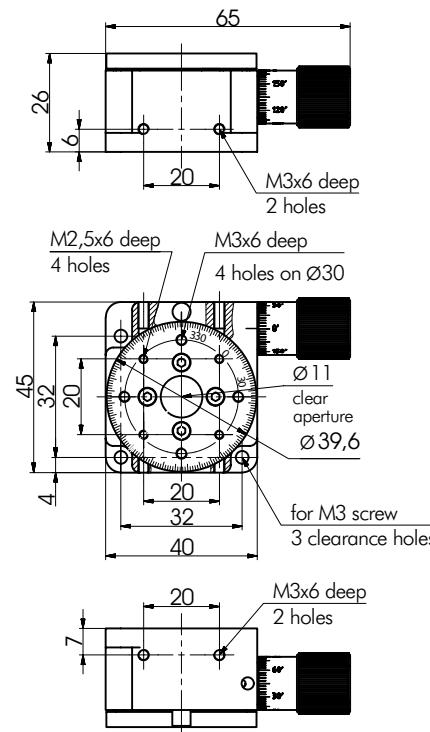


**8MR174-11** (motorized rotation stage),  
**7T184-13** (2 pieces),  
and **7VT174** or **7VT40** stacked



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

Base Plate from  
3UBP series  
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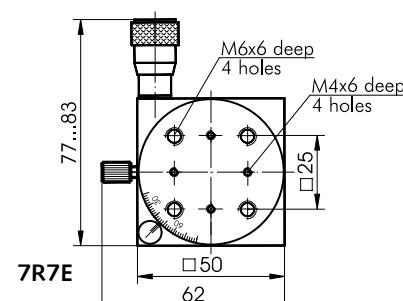
**7R174-11**  
stacked on  
**7T184-13**

## 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



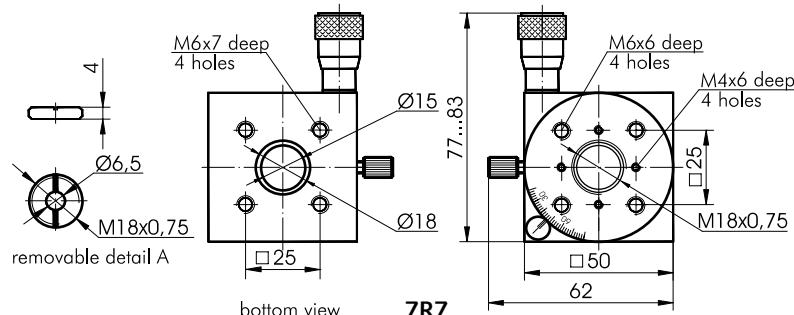
**Mini Rotation Stage 7R7** provides smooth, low friction **360°** rotation.

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.

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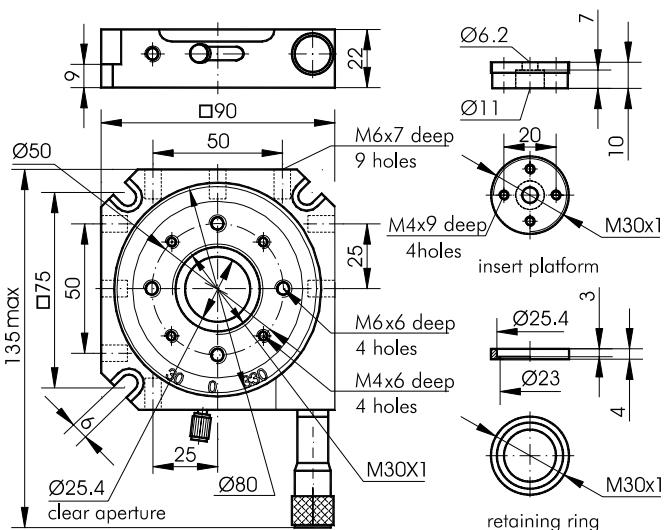


## Precision Rotary Stage

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 **1arcmin**. 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	360°, resolution 1°
coarse	15°, resolution 1 arcmin
fine	20 arcsec
Sensitivity	1 arcmin
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

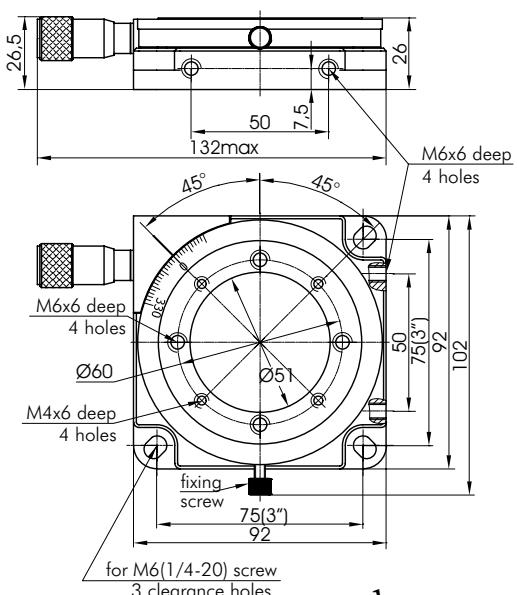


- Rolling ball movement
- 360° rotation
- 10° fine adjustment
- Ø50.8 mm (2") clear aperture

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.

1	Optical 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	
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## Translation & Rotation Stages

### Rotation Stages



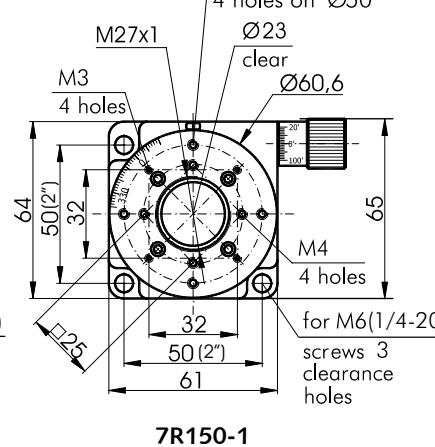
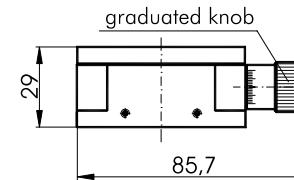
**7R150-1**

Available  
INCH version  
**7R150E**

**7R150-1 • 7R150-30**

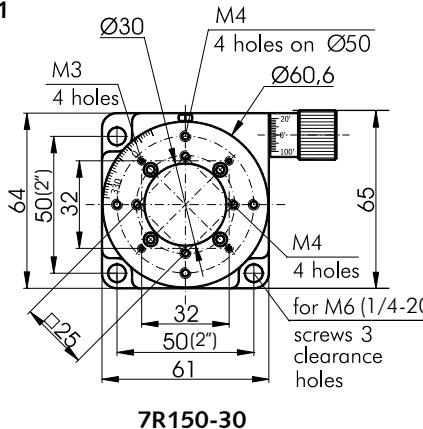
**7R150-1** has  
M27x1 for 1"  
optics mounting  
(Ø23 mm clear  
aperture).

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

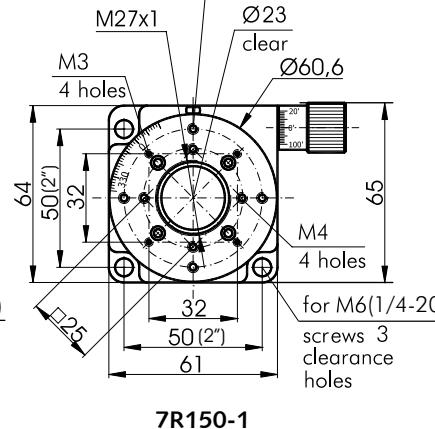


#### SPECIFICATIONS

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**

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### Rotation Stage of Big Platform

**7R171-200**



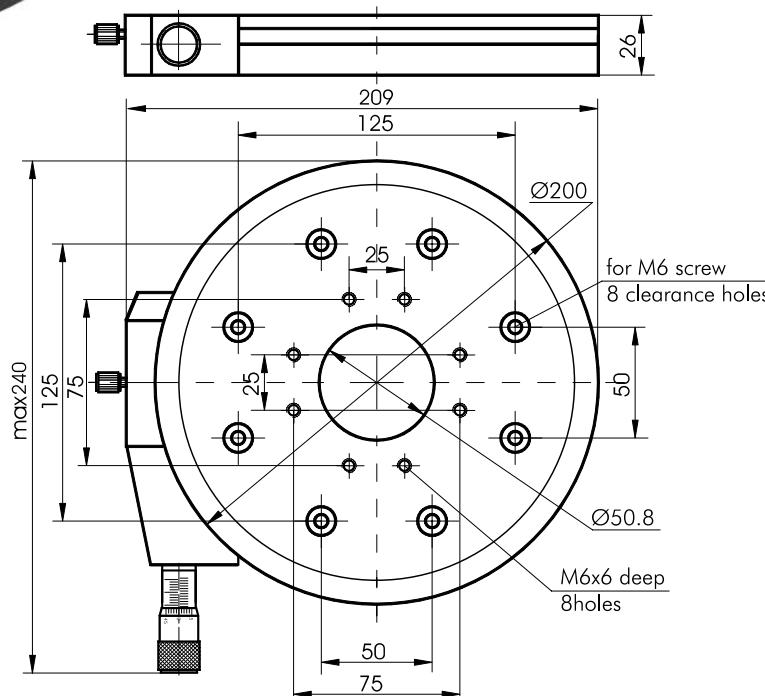
- 200 mm platform
- 360° rotation
- 10° Fine adjustment
- Ø50.8 mm (2") clear aperture

#### 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

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.



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e-mail: sales@standa.it  
www.standa.it

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



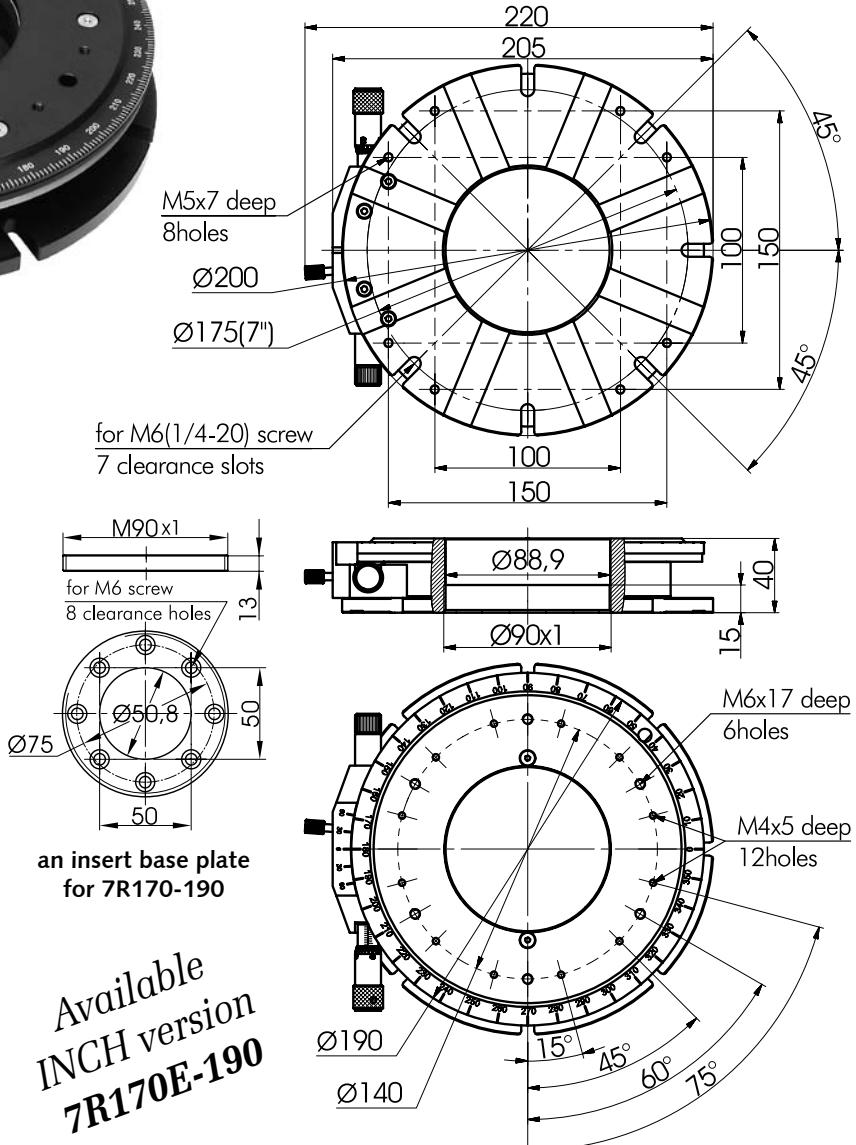


# Rotation Stage of Big Platform

7R170-190



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



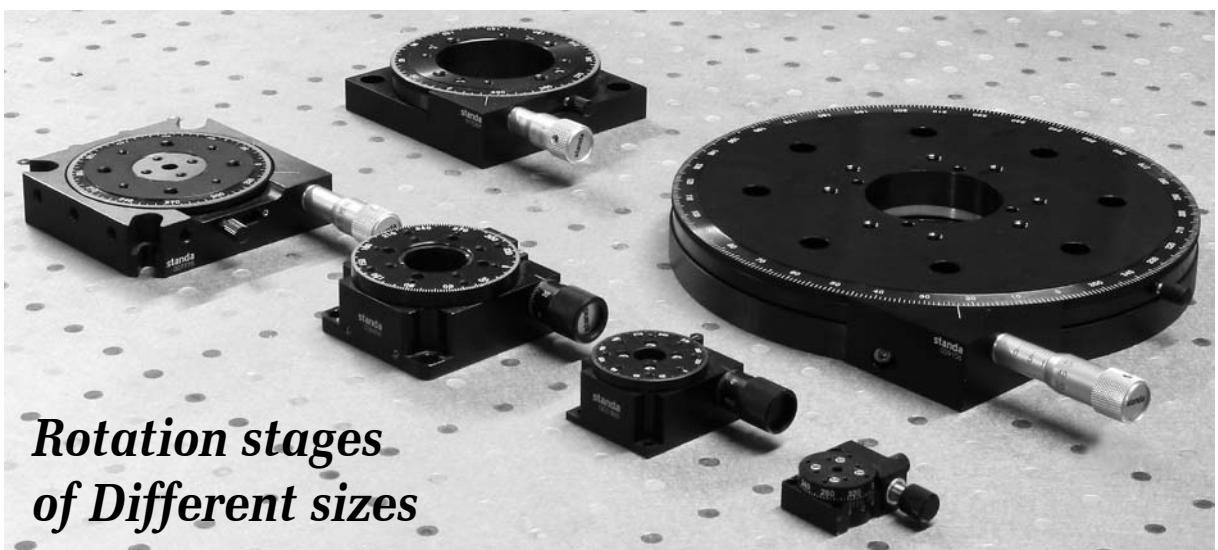
**The Rotation Stage of Big Platform**  
**7R170-190** is used to rotate manually large optical components through continuous **360°** with accuracy of **1°**, and finely adjust them within **10°** by a micrometer, with accuracy of **0.5 arcmin.**

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

*Available Motorized Version 8MR170-190*



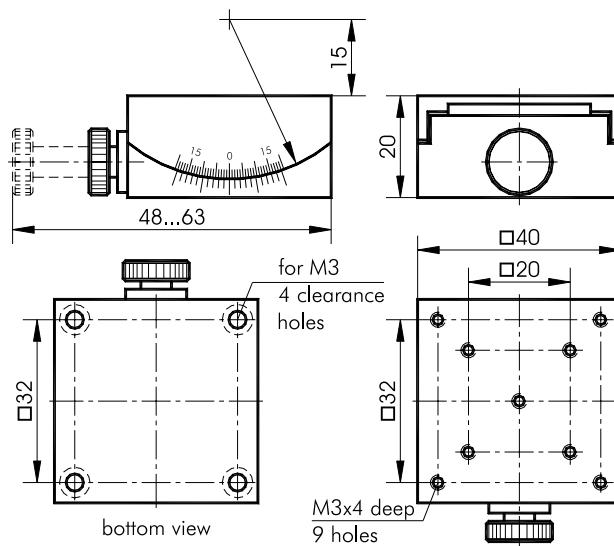
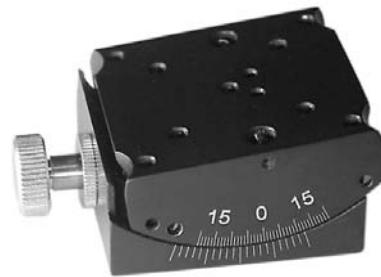
## *Rotation stages of Different sizes*

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
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## Small Goniometer

7G174-30



## SPECIFICATIONS

	Base Mounts & Accessories	Brackets & Rails	Optical Tables
1	2	3	4
2	3	4	5
3	4	5	6
4	5	6	7
5	6	7	8
6	7	8	9
7	8	9	10
8	9	10	11
9	10	11	12
10	11	12	13
11	12	13	14
12	13	14	15
Rotation range	$\pm 15^\circ$		
Reading resolution	0.1° (vernier scale)		
Drive geometry	Lever (tangential)		
Driving screw pitch	0.25 mm		
Transmission ratio	$0^\circ 27'59'' \dots 0^\circ 30'45''$		
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



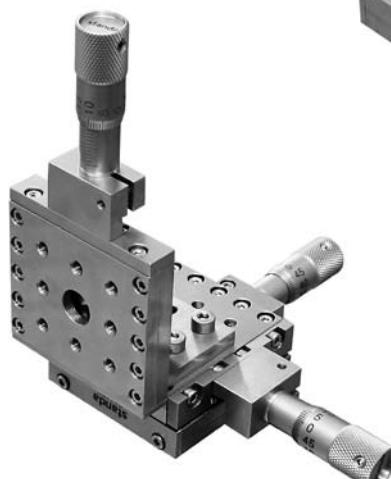
7T67V-6-9SH137ML



7T67V-25XYZ



7T164V-10



7T164V-10XYZ



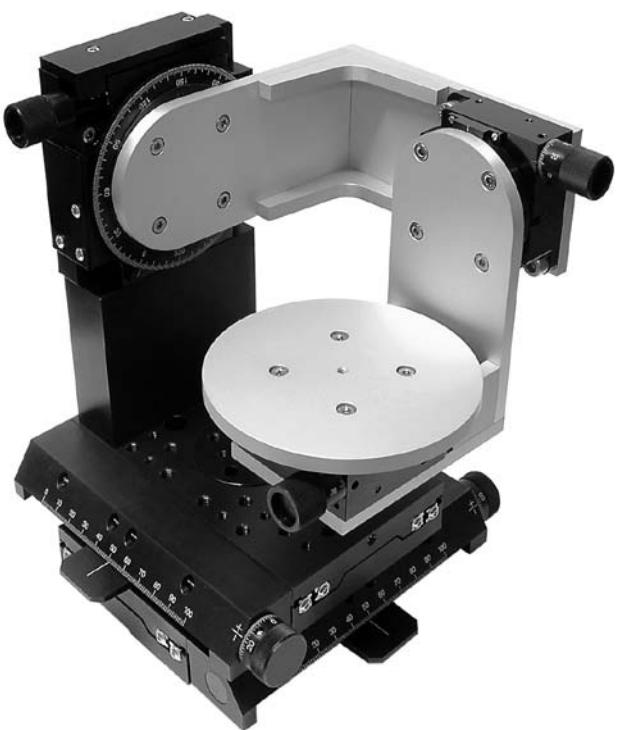
7R170V-190

more info on  
[www.standa.lt](http://www.standa.lt)

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**10NMC-1**  
5 Axis Manual Motion System



**10MS-2R200**  
2 Axis Motorized Motion System



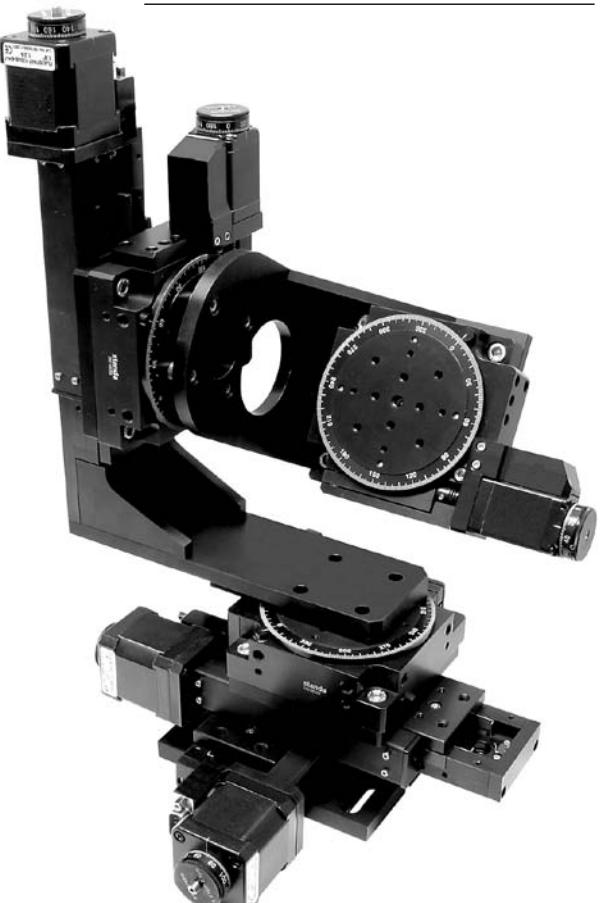
Detailed information available at  
[WWW.STANDA.LT/PRODUCTS/CATALOG/CUSTOM\\_ENGINEERING](http://WWW.STANDA.LT/PRODUCTS/CATALOG/CUSTOM_ENGINEERING)

**CUSTOM ENGINEERING and DESCRIPTION**

**10RSB-081658**  
5 Axis Motorized Motion System



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



**Standa**

e-mail: sales@standa.lt  
www.standa.lt

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

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
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