

MRSC Series Motorized Rotation Stage

These stages are suitable for applications where positioning needs to be automated. The drive mechanism consists of worm and gear assembly perfectly matched to minimize play and back-lash. There is an access hole through the center of the stage for illumination from underneath or for similar purposes. Radial play is eliminated by the use of preloaded thrust bearings using balls as rolling elements. Stepper motor is used as the electrical actuator and is connected to the worm. Shaft of the stepper motor is connected to a rotating knob as well as for manual adjustments, when ever required. Top surface of the stage is provided with tapped holes and base with counter bored holes for mounting. Standard stages are manufactured in aluminium



All dimensions are in "mm"

Model No:	D	W	H	B	D1	Load capacity(kg)
MRSC 100	100	150	50	125	30	25
MRSC 150	150	175	50	150	50	30
MRSC 200	200	250	60	200	70	75
MRSC 300	300	350	60	325	90	200
MRSC 500	500	500	80	475	125	300

>> Applications

- ▶ Scattering photometer
- ▶ Probe positioning

- ▶ 360° rotatable
- ▶ Fine rotation <1 arc min.
- ▶ Up to 500 kgs load capacity
- ▶ Double bearing design
- ▶ Precision worm gears
- ▶ M6/M8 mounting holes
- ▶ M6/M8/M12 C'bored holes
- ▶ Aluminium / steel material
- ▶ Attractive paint finish

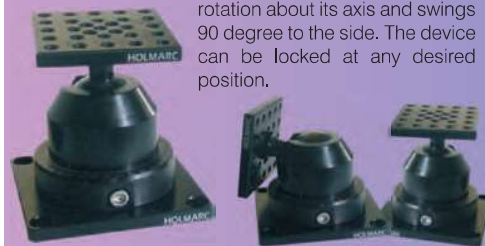
- ▶ Pre loaded rolling contact bearings are used to minimize friction and to eliminate play.
- ▶ Driven by precision worm gear assembly.
- ▶ Graduated rotary scales are provided for visual reference of positions.
- ▶ Can be fitted to our motorized linear stages for multi axis configurations.
- ▶ Custom stages are constructed out of aluminium, steel and SS depending on the applications.
- ▶ Custom mounting patterns for easy integration with other machine components.



Scattering Photometer Experiment Setup using MRSC Series rotation stage

Ball Base Mounting Platform

This base provides 360 degree rotation about its axis and swings 90 degree to the side. The device can be locked at any desired position.



MRSC Series Motorized Rotation Stage With XY Positioner



Application Idea

MRSC series rotation stage can be assembled along with XY stage. It helps to position the rotation stage precisely in X and Y directions.

Vacuum Compatible

Vacuum compatible rotation stages are available on special request. They use vacuum compatible grease and epoxies and are non-anodized. These rotation stages are being used successfully in vacuum applications down to 10⁻⁶ Torr

Vertical Positioning



90° Bracket can be used with aluminium breadboard or optical table for achieving vertical working surface.