




MOTORIZED ROTATION STAGE



Motorized rotation stages are a set of precision positioning products designed and built over many decades of experience in providing solutions to research and academia to industry and defense markets. Applications of [Rotation Stages](#) include semiconductor wafer inspection or scribing, metrology, micro-robotics, sensor testing, disk texturing, optics positioning like polarizers, waveplates, etc. The Newport rotation stages offering ranges from the direct drive, direct read, high rotation speed, [RGV100BL](#) to the multi-use low-cost [NSR1](#) Universal Rotator, over 100 model numbers to choose from. Metric and vacuum versions are available and if required, multiple axis designs, OEM or custom solutions may be quoted.

Selecting a Motorized Rotation Stage

Click [Motorized Rotation Stages](#) to shop or browse all of our standard models, or select a product family below for more information. We also offer [Manual Rotation Stages](#).

Series		Minimum Incremental Motion (°)	Bi-directional Repeatability, Guaranteed (°)	Absolute Accuracy, Guaranteed (°)	Maximum Speed (°/s)	Wobble, Guaranteed (µrad)	Normal Load Capacity (Cz) (N)
	RGV100BL High-Speed Precision Rotation Stage	0.00011	0.0011	0.01	720	20	100
	RV Series High-Performance Precision Rotation Stages	HAT, HAHLT: 0.0001 RVS80PP: 0.0002 RVS80CC: 0.00025 All Others: 0.001	HAT, HAHLT: 0.0012 RVS80CC: 0.003 RVS80PP: 0.007 All Others: 0.004	HAT, HAHLT: 0.005 RVS80CC: 0.015 RVS80PP 0.02 All Others: 0.01	CC, HAT: 80 RVS80CC: 40 PP: 20 CCHL, HAHLT: 16	RVS80: 2 RV120/RV160 : 20 RV240, RV350: 16	900 1800 2700 4000 6500
	URS Series Precision Rotation Stages	URS50BPP: 0.0005 URS50BCC: 0.001 Other BPP: 0.00022 Other BCC:	URS50BPP: 0.006 Other BPP: 0.02 BCC: 0.006	URS50BPP: 0.05 Other BPP: 0.03 URS50BCC: 0.04 Other BCC:	BPP: 40 URS50BCC : 20 Other BCC: 8040-80	50	URS50B: 100 URS75B: 200 URS100B : 300

		0.0002		0.023			URS150B : 300
	URB100CC High-Speed Belt-Driven Rotation Stage	0.02	0.165	0.2	720	50	100
	PR50 & SR50 Series Compact Rotation Stages	SR50: 0.004 PR50: 0.02	SR50: 0.05 PR50: 0.15	SR50: 0.06 PR50: 0.1	SR50: 4 PR50: 20	100	SR50: 30 PR50: 10
	NewStep NSR Series Universal Rotator	1	3	NA	120	600	4.0
	BG Series Goniometric Cradles	BGS50CC, BGS80CC: 0.0005 BGS50PP, BGS80PP: 0.0002 BGM120, BGM160, BGM200: 0.002	BGS50CC: 0.013 BGS50PP: 0.016 BGS80CC: 0.003 BGS80PP: 0.005 BGM120, BGM160, BGM200: 0.024	BGS50CC, BGS80PP: 0.06 BGS50PP: 0.07 BGS80CC, BGM120, BGM160, BGM200: 0.05	BGS50CC: 10 BGS50PP: 4 BGS80CC, BGS80PP: 20 BGM120, BGM160, BGM200: (CC, PP) 20 (PE) 2	200	BGM50: 20 BGS80: 60 BGM120: 200 BGM160: 300 BGM200: 500
	Aquilis™ Series Piezo Motor Driven Rotation Stage	5	NA	NA	2	100	2
	Closed Loop Picomotor Motorized Rotation Stages	0.2	NA	NA	1-2 RPM	NA	NA
	Integrated Rotation Stages and DC-Servo Controller,	0.004-0.02	0.05-0.08	0.06 -0.10	4-20	100	10-30

For CONEX-CC controller information, see [Connect Easily - Control Simply](#).