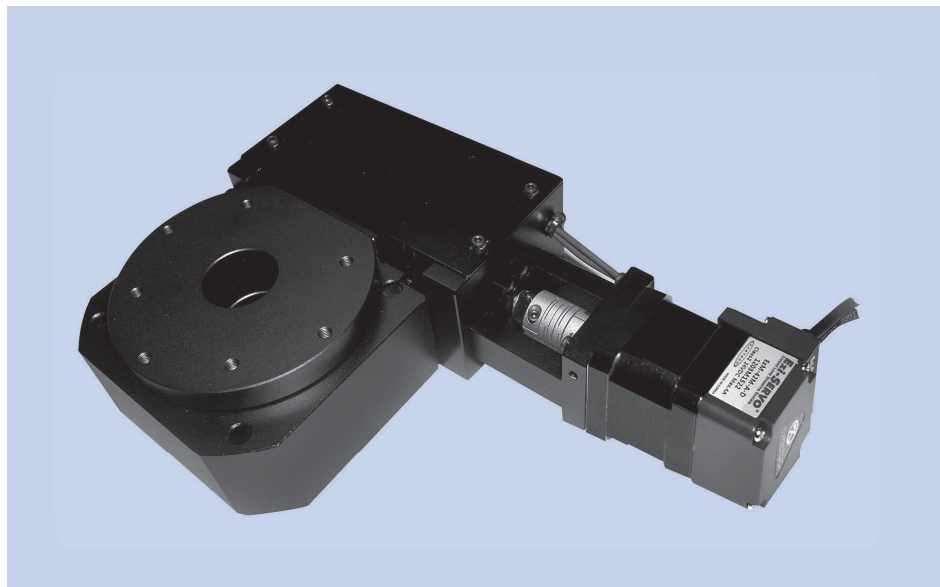


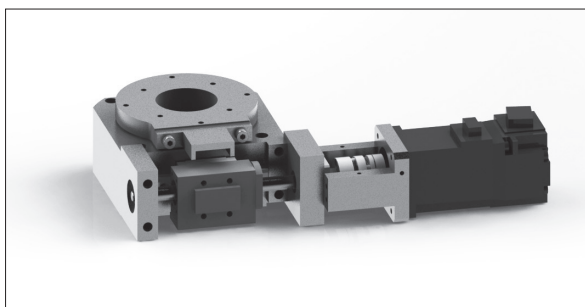
Motorized Rotary Stage



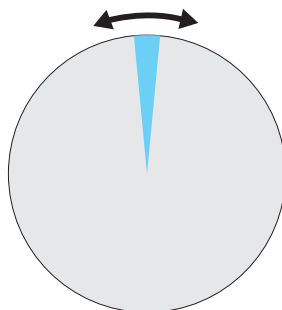
Basis of selection

■ Ballscrew type

Sine motion stages make rolling movements. They are rarely worn and highly durable against repeated positioning at small angle.



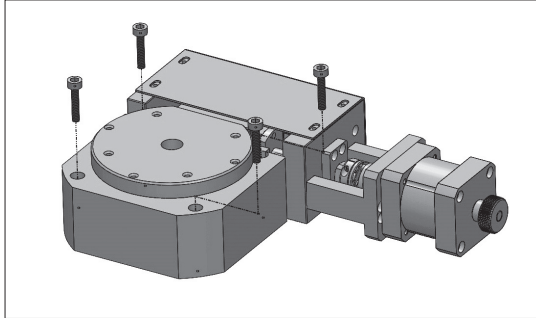
To rotate the stage around $\pm 5^\circ$, $\pm 8^\circ$, $\pm 15^\circ$ repeatedly.



Ballscrew type

Wedge method crossed rollers

Place the V-groove rail and the crossed roller guide horizontally, diagonally, vertically in three okaces and moves up and down with the precision ballscrew drive.



■ Objects to be attached on upper and lower surface of the stage

Fixing an object with irregular surface to the stage or attaching the stage to an object with irregular surface may deform the stage surface and deteriorate the accuracy. [required flatness: $10\mu\text{m}$]

■ Stage attaching orientation

Specification of each product are those when installed on flat surface. Cautions are required for upside down, and vertical and horizontal mounting on side other than horizontal plane mounting. Load capacity and accuracy significantly change by the mounting orientation.

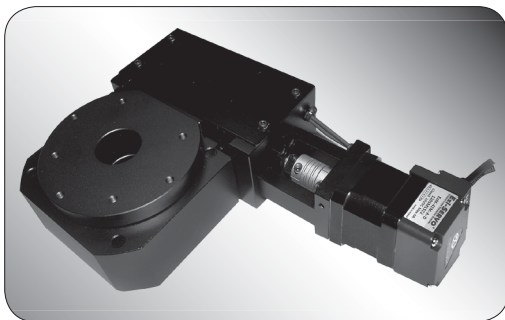
C

JMR-Series / Motorized Stage

JMR

Model Selection

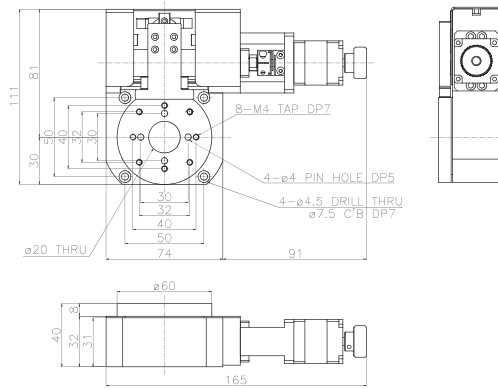
1) 2) 3) 4) 5)
JMR – 60L – B5 – O



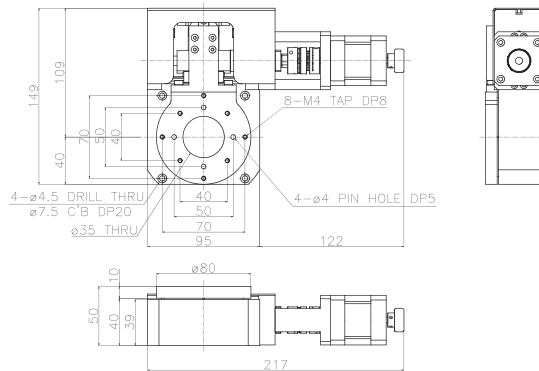
1) Axis	2) Surface Size	3) Position of Sensor & Connector	4) Grade of Ball Screw	5) Motor
JMR : Rotary-stage	60 : $\Phi 60$ 80 : $\Phi 80$ 100 : $\Phi 89$ 120 : $\Phi 120$ 150 : $\Phi 140$	L : Left from Motor R : Right from Motor	B5 : C5 Grade Ball Screw B7 : C7 Grade Ball Screw	O : Oriental Motor (5Phase) S : Sanyo (2Phase) E : Ezi-Servo Y : Yaskawa Servo M : Mitsubishi Servo

Model	JMR-60	JMR-80	JMR-100
Surface Size	$\Phi 60$	$\Phi 80$	$\Phi 89$
Travel Range	$\pm 5^\circ$	$\pm 6^\circ$	$\pm 8^\circ$
Travel Guide	Thrust & Ball Bearing, Linerar Guide		
Resolution	$2\mu\text{m}$ (Full step)		
Max. Speed	$8.2^\circ/\text{sec}$ (based on lead 1 Ball Screw)	$5.9^\circ/\text{sec}$ (based on lead 1 Ball Screw)	$6.3^\circ/\text{sec}$ (based on lead 1 Ball Screw)
Moving Distance /1 rotation	0.87°	0.64°	0.68°
Applicable Ball Screw	$\Phi 8$, lead 1(C5/C7)	$\Phi 8$, lead 1(C5/C7)	$\Phi 8$, lead 1(C5/C7)
Accuracy	0.01° (C5) / 0.02° (C7)	0.01° (C5) / 0.02° (C7)	0.01° (C5) / 0.02° (C7)
Bi-Repeatability	$\pm 0.0015^\circ$ (C5) / $\pm 0.003^\circ$ (C7)	$\pm 0.0015^\circ$ (C5) / $\pm 0.003^\circ$ (C7)	$\pm 0.0015^\circ$ (C5) / $\pm 0.003^\circ$ (C7)
Load Capacity	5 Kg	8 Kg	10 Kg
Parallelism	$30\mu\text{m}$	$40\mu\text{m}$	$50\mu\text{m}$
Driving Parallelism	$15\mu\text{m}$	$20\mu\text{m}$	$20\mu\text{m}$
Staightness	$10\mu\text{m}$	$15\mu\text{m}$	$20\mu\text{m}$
Weight	1.6Kg	2Kg	2.2Kg
Material	Aluminum		
Finish Treatment	Black Anodizing		

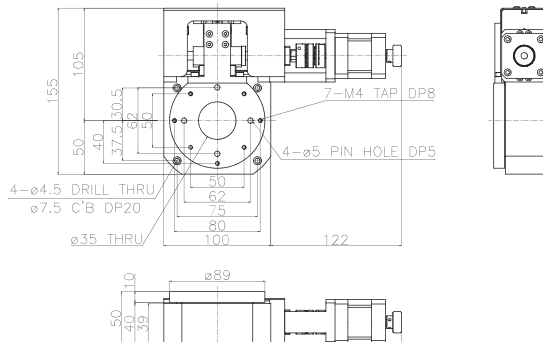
JMR



JMR-60L



JMR-80L



JMR-100L

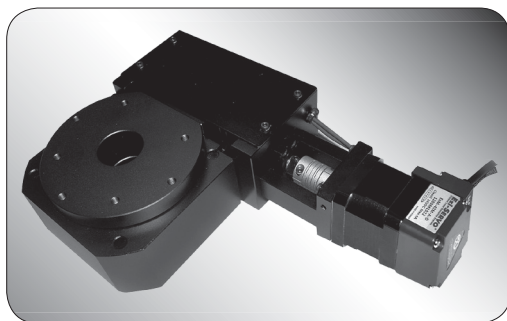
C

JMR-Series / Motorized Stage

JMR

Model Selection

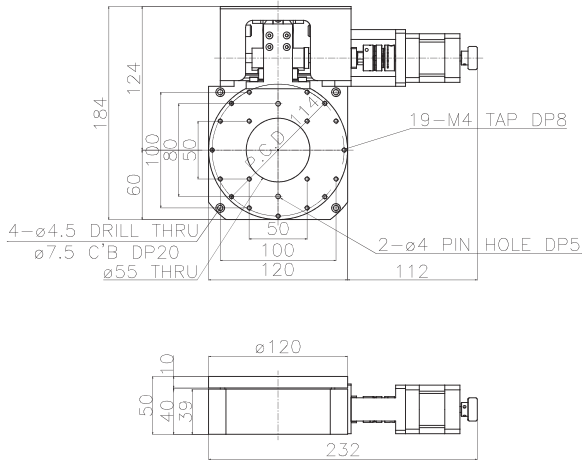
1) 2) 3) 4) 5)
JMR – 60L – B5 – O



1) Axis	2) Surface Size	3) Position of Sensor & Connector	4) Grade of Ball Screw	5) Motor
JMR : Rotary-stage	60 : $\Phi 60$ 80 : $\Phi 80$ 100 : $\Phi 89$ 120 : $\Phi 120$ 150 : $\Phi 140$	L : Left from Motor R : Right from Motor	B5 : C5 Grade Ball Screw B7 : C7 Grade Ball Screw	O : Oriental Motor (5Phase) S : Sanyo (2Phase) E : Ezi-Servo Y : Yaskawa Servo M : Mitsubishi Servo

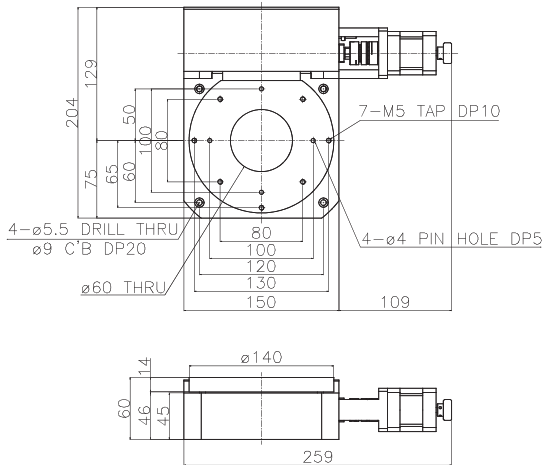
Model	JMR-120	JMR-150
Surface Size	$\Phi 120$	$\Phi 140$
Travel Range	$\pm 6^\circ$	$\pm 15^\circ$
Travel Guide	Thrust & Ball Bearing, Linerar Guide	
Resolution	$2\mu\text{m}$ (Full step)	
Max. Speed	$5.0^\circ/\text{sec}$ (based on lead 1 Ball Screw)	$4.8^\circ/\text{sec}$ (based on lead 1 Ball Screw)
Moving Distance / 1 rotation	0.55°	0.53°
Applicable Ball Screw	$\Phi 8$, lead 1(C5/C7)	$\Phi 8$, lead 1(C5/C7)
Accuracy	0.01° (C5) / 0.02° (C7)	0.01° (C5) / 0.02° (C7)
Bi-Repeatability	$\pm 0.0015^\circ$ (C5) / $\pm 0.003^\circ$ (C7)	$\pm 0.0015^\circ$ (C5) / $\pm 0.003^\circ$ (C7)
Load Capacity	12 Kg	20 Kg
Parallelism	$50\mu\text{m}$	$50\mu\text{m}$
Driving Parallelism	$20\mu\text{m}$	$20\mu\text{m}$
Staightness	$20\mu\text{m}$	$20\mu\text{m}$
Weight	2.8Kg	3.0Kg
Material	Aluminum	
Finish Treatment	Black Anodizing	

JMR



JMR-120L

C



JMR-150L