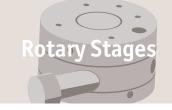
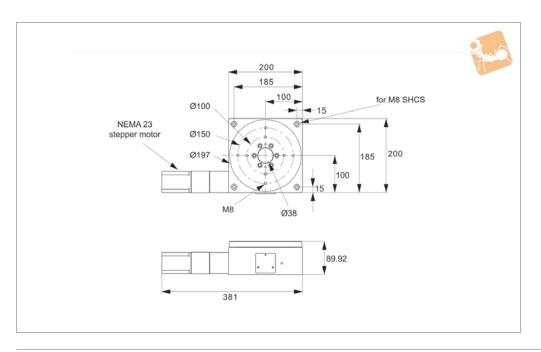


Motorised Rotary Stage Ø200 high precision, heavy duty







L3562

Material

Aluminium alloy body (light, stiff and stable), black anodised. Stainless steel circular plate.

Technical Notes

The design utilises a single preloaded crossed roller bearing system for the table movement. This eliminates the use of dual bearing configuration, thus improving axial runout and wobble.

The stages are offered with different gear ratio options. A proprietary preload system ensures zero backlash in the gear train. The travel is 360° continuous.

Uni-directional repeatability

Easy to use plug and play system when

used with a motion controller. Can be used in conjunction with motorised linear stages for multi axis applications.

Servo motor stages are only compatible with servo motion controllers. These allow for greater speeds but are more expensive. Can be supplied with an optional pneumatic brake fro added stability when stopped.

Tips

Requires external home switch (if required).

Motor options:

Stepper - Nema 23, high torque, brushless. 0.95 Amp/phase, 5.0 Ohm/phase, 3.1 mH/

phase, 1.8°/step. Optionally with home switch and/or 1000 line rotary encoder. **Servo** - Nema 23, with home switch and 1000 line rotary encoder.

Intelligent stepper - Nema 23 with a fully programmable motion controller inbuilt (i.e. no need for an external motion controller). Two +5 to +24VDC I/O lines. One 10 bit analogue input selectable 0 to +10VDC, 0 to +5VDC.

Optionally with home switch or 512 line rotary encoder.

RS422/485 communications. Input voltage +24VDC.

Order No.	Motor	Speed °/s max.	Horizontal load kg max.	Vertical load kg max.	Moment load Nm	Weight kg
L3562.200-STA	Stepper	20°	300	200	82.2	13.6
L3562.200-STB	Stepper & home	20°	300	200	82.2	13.6
L3562.200-STC	Stepper, home, enc.	20°	300	200	82.2	13.6
L3562.200-IMA	Int. stepper	20°	300	200	82.2	13.6
L3562.200-IMB	Int. stepper, home, enc.	20°	300	200	82.2	13.6
L3562.200-SVA	Servo, home, enc.	180°	300	200	82.2	13.6

Order No.	± arc-secs	± arc-secs	± arc-secs	Gear ratio	± arc-secs	
L3562.200-STA	5"	45"	70"	80:1	0,32"	
L3562.200-STB	5"	45"	70"	80:1	0,32"	
L3562.200-STC	5"	45"	70"	80:1	0,32"	
L3562.200-IMA	5"	45"	70"	80:1	0,32"	
L3562.200-IMB	5"	45"	70"	80:1	0,32"	
L3562.200-SVA	5"	45"	70"	80:1	5,0"	

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Ri-directional repeatability



Accuracy





Rotary Stages

Selection



Factors affecting stage selection

- Size and weight of load (including any moment loads)
- Accuracy (positioning, repeatability and resolution)
- Speed of rotation required
- Means of control

Parameters	High precision		
Table diameters (mm)	50-200		
Maximum loads (Kg) Horizontal Vertical	125 125		
Maximum speed °/sec Stepper motor Servo motor	25-50 180-360		
Accuracy (arc-secs) Positioning Repeatability Resolution	70" 5" <0,7"		
Control options	Stepper, servo or intelligent motor Motion controllers available		

^{*}Dependent on stage selected

Factors affecting stage performance

Run-out

The displacement of a measure sensor placed on the surface of the rotary table.

Applied loads

These cause small deformations in the stage bearings and are dependent on the stiffness of the stage, the bearings and the stability and flatness of the mounting surface.

Hysteresis errors

The difference between the control and instructed position.

Backlash errors

Errors caused by the reversal of the direction of travel affected by clearance in the drive chain.

Encoder errors

Imperfections in the operations of the encoder (if present).



Rotary Stages

High precision overview





L3550 Ø50 Rotary stage

- Motorised.
- Accurate to 70 arc-secs, repeatedly to 3 arc/sec.
- Loads up to 4.5kg.



L3554 Ø75 Rotary stage, heavy duty

- · Heavy duty.
- Motorised.
- Accurate to 70 arc-secs, repeatedly to 3 arc-secs.
- Loads up to 20kg.



L3558 Ø125 Rotary stage, heavy duty

- · Heavy duty.
- Motorised.
- Accurate to 70 arc-secs, repeatedly to 3 arc-secs.
- Loads up to 45kg.



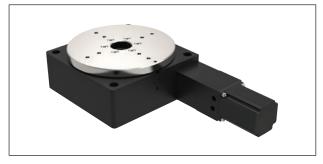
L3552 Ø75 Rotary stage

- Motorised.
- Accurate to 70 arc-secs, repeatedly to 5 arc-secs.
- Loads up to 11kg.



L3556 Ø125 Rotary stage, medium duty

- Motorised.
- Accurate to 70 arc-secs, repeatedly to 5 arc-secs.
- Loads up to 25kg.



L3662 Ø200 Rotary stage

- Motorised.
- Accurate to 70 arc-secs, repeatedly to 5 arc-secs.
- Loads up to 125kg.





Rotary Stages

Motor options



Positioning Stages from Automotion Components

	Stepper	MDrive	Servo
Part no.			
L3550	✓	✓	×
L3552	✓	✓	×
L3554	√	√	√
L3556	√	✓	×
L3558	✓	✓	×
L3562	√	✓	✓