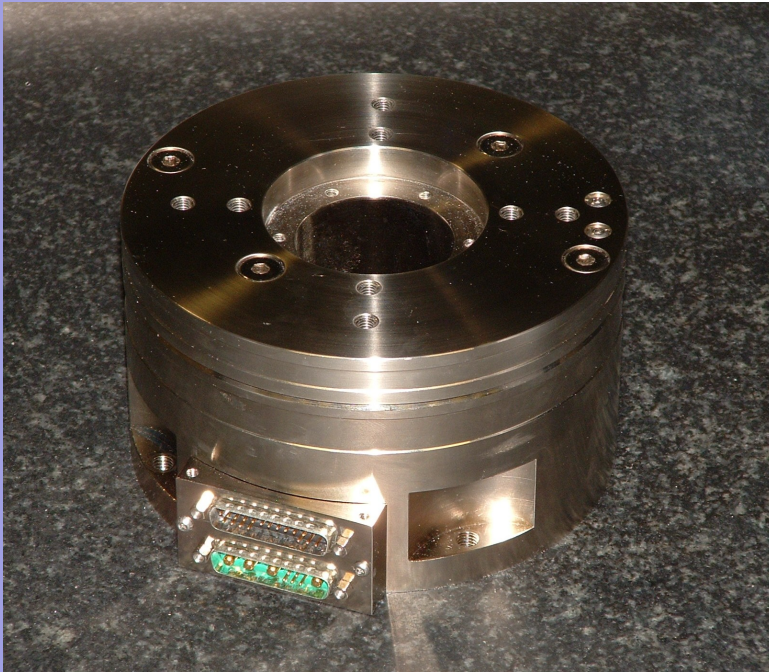


## QR-R-160 Rotary Positioning Stage



- Stiff, stable and compact design
- Direct drive rotary motor gives excellent dynamic performance
- High accuracy optical encoder
- Nickel plated finish
- Precision bearings
- High reliability
- Long life, maintenance free
- Through hole flexibility

With its proven design and using the highest quality components, the Q-Sys QR-R-160 stage is perfectly suited to applications requiring high speeds and accelerations while maintaining positional accuracy without significant geometrical errors. The direct drive rotary servo motor coupled with precision angular contact bearings produces a stage with excellent dynamic performance, high stiffness and zero backlash.

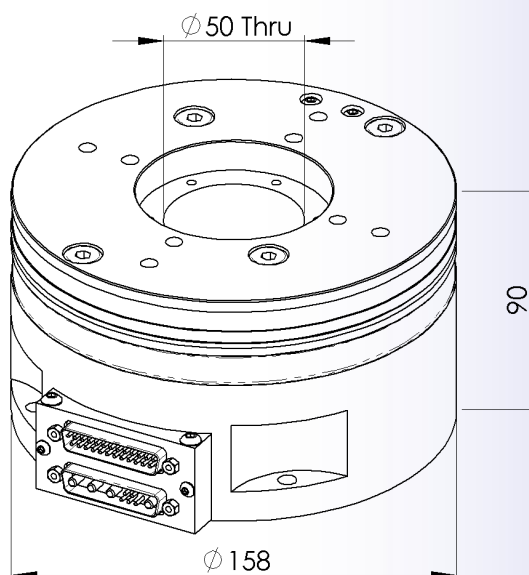
The 18000 line optical encoder provides resolutions down to 0.36 arcseconds and is available with optical index marker and magnetic limit switches. The stage can also be fitted with internal hardstops to limit rotary travel if required.

Shown here in stand alone form, this stage can also be used in conjunction with any of our other products to provide other configurations, including high accuracy R $\theta$  or XY $\theta$ .

# Specifications

Travel	Full, free 360° or limited by optional hardstops
Accuracy	±15 arcseconds (including bi-directional repeatability)
Encoder resolution	From 3.6 arcseconds down to 0.36 arcs
Bi-directional Repeatability	Better than 2 arcs subject to encoder resolution
Flatness (axial runout)	±2 microns
Concentricity (radial runout)	±3 microns
Wobble	±10 arcs
Load capacity	50kg axial; 10kg radial
Maximum Velocity	120 rpm
Weight	7.5 kg

Notes: Stage may be fitted with optical index marker (x1) and magnetic limits (x2)  
For any other non-standard requirements, please contact Q-Sys directly to discuss.



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