

QR-R-160 Rotary Positioning Stage



- Direct drive rotary motor gives excellent dynamic performance
- High accuracy optical encoder
- Precision bearings
- Nickel plated finish
- High reliability
- Through hole for 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 arcs and is available with optical index marker and magnetic limit switches. The stage can also be fitted with 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 θ or XY θ .

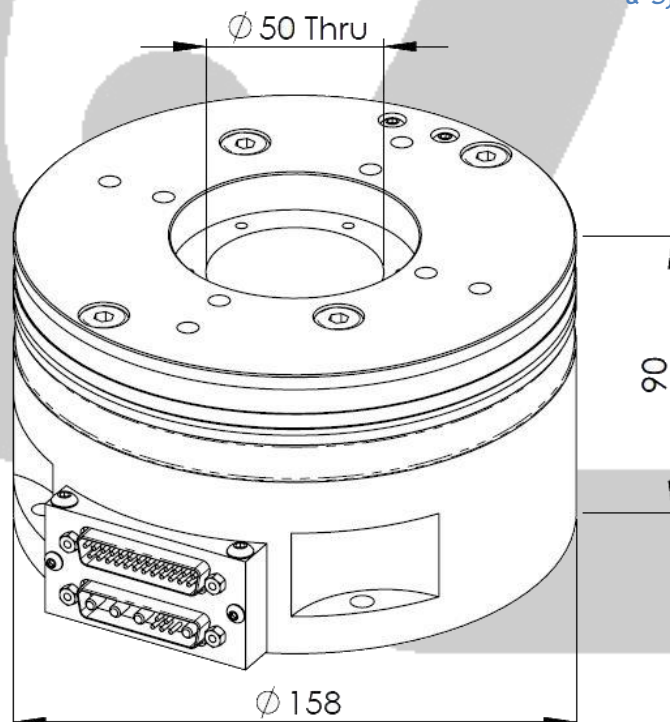
Specifications

Travel ¹	Full, free 360° (or limited by optional hardstops)
Accuracy ²	±15arcs
Encoder resolution	Down to 0.36arcs
Repeatability ²	Better than 2arcs (subject to encoder resolution)
Flatness (axial runout)	±2µm
Concentricity (radial runout)	±3µm
Wobble	±10arcs
Velocity	120RPM
Load capacity	50kg axial, 10kg radial
Weight	7.5kg
Dimensions	See below

1) Stage may be fitted with optical index marker (x1) and magnetic limits (x2)

2) including bi-directional repeatability

For any other non-standard requirements, please contact Q-Sys directly to discuss



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