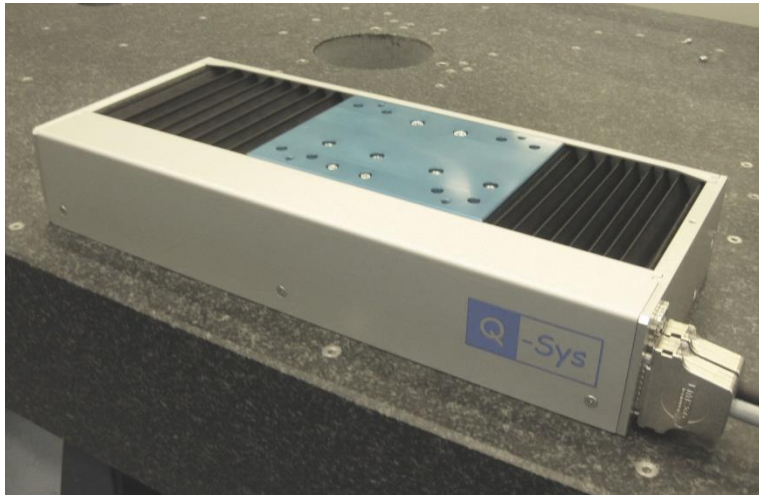


# QL-R Series Linear Positioning Stages



- Compact, stiff design
- Linear motor driven
- Optical position feedback
- Recirculating ball bearings
- Internal cable management
- High reliability
- Travels from 150mm to 1500mm

With a proven design and using the highest quality components, Q-Sys QL-R stages are perfectly suited to demanding applications requiring high speeds and accelerations while maintaining positional accuracy. The combination of linear motor drive, non-contact optical encoder and robust recirculating ball bearings produces a stage with excellent dynamic performance, high precision and long service life with minimal maintenance needs.

Shown here in single axis form, the stages are also suitable for XY mounting to produce a highly cost effective 2D system. In XY mounting all cables are exiting from the bottom stage.



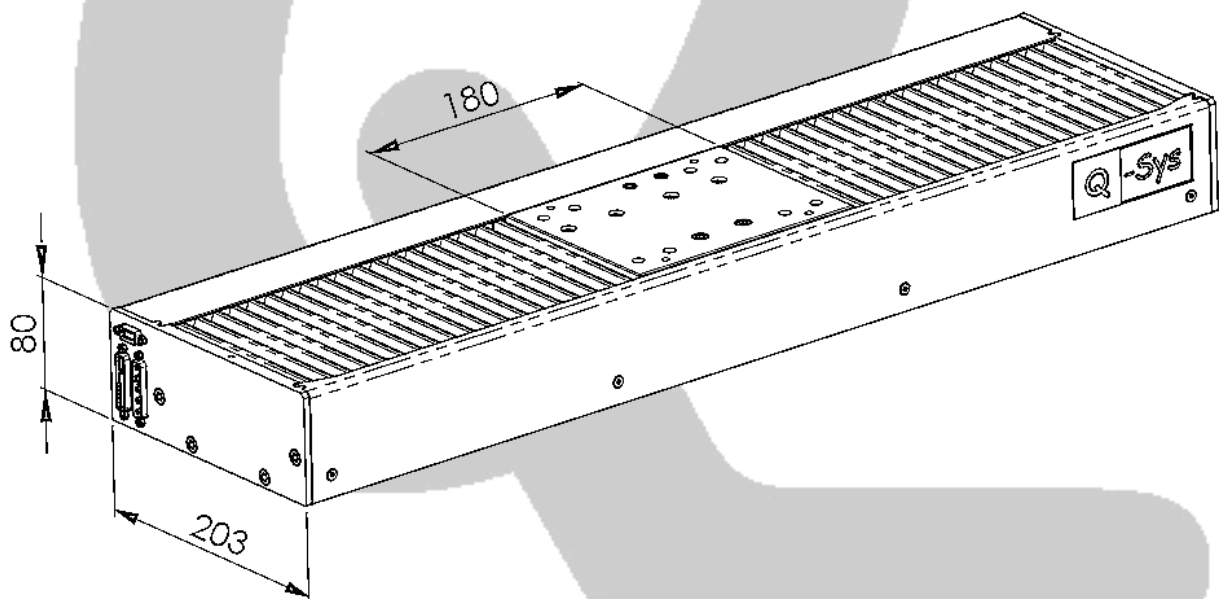
# Specifications

Travel <sup>1</sup>	150mm to 1500mm
Accuracy <sup>2,3</sup>	±2µm
Encoder resolution	down to 0.1µm or better
Repeatability <sup>3</sup>	±1µm with 0.5µm resolution or better
Straightness / flatness	±5µm + 10µm/300mm
Roll, pitch and yaw	±10arcs + 8arcs/300mm
Load capacity	30kg
Velocity and acceleration	Up to 4m/s and 4g ( <i>load and travel depending</i> )
Dimensions	See below – overall length depends on travel

*1) for extended travels or non-standard configurations please contact factory*

*2) including repeatability and after error mapping (±8µm/300mm without mapping)*

*3) with no load and measured 50mm above carriage*



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