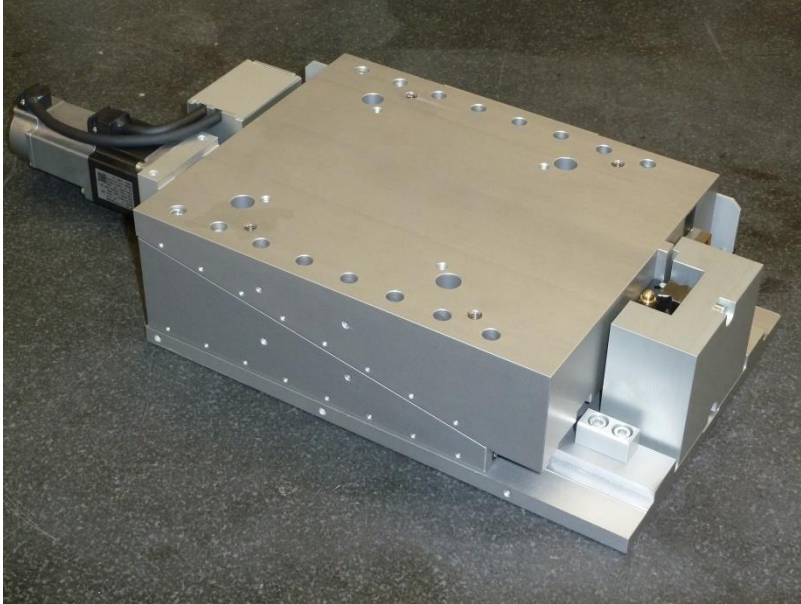


QW-R-10 Z-wedge Lift Stage



- Compact, stiff design
- Servo motor driven
- Optical position feedback
- Crossed roller bearings
- Flat stage top surface
- High reliability
- Travel 10mm

The Q-Sys QW-R-10 stage provides vertical motion for applications where all-round access to the workpiece is required. The compact, stiff design provides a very stable and repeatable platform for payloads up to 20kg and is ideally suited for applications such as autofocus systems.

As the lower wedge is driven in and out, the upper section is raised and lowered accordingly. Guidance of the sections is by precision crossed-roller bearings. The servo motor driven precision ground ballscrew ensures smooth motion with extremely high repeatability while maintaining high stiffness at all times. A non-contact optical encoder provides direct measurement of stage position.

The stage can be used in isolation or in conjunction with other Q-Sys stages to provide, for example, Z θ or XYZ θ multi-axis configurations.

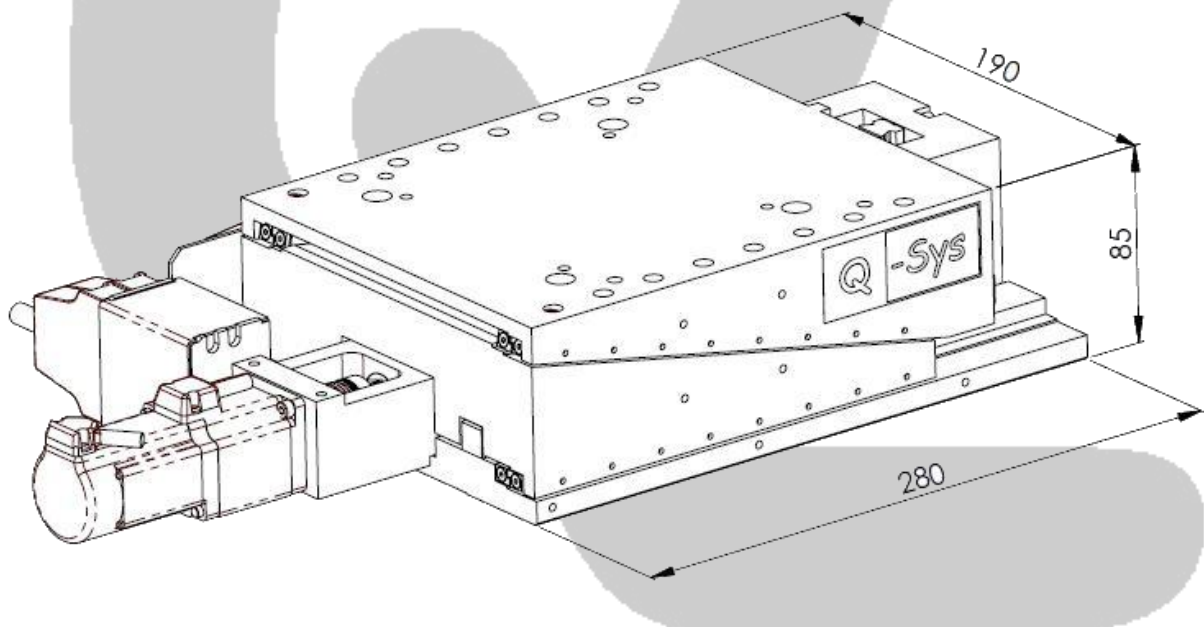
Specifications

Travel	10mm
Accuracy ^{1,2}	±2µm
Encoder resolution	Typically 0.1µm or better
Repeatability ²	±0.5µm with 0.1µm resolution or better
Straightness / flatness	±2µm
Roll, pitch and yaw	±5arcs/mm
Load capacity	20kg
Velocity	Up to 12mm/s
Weight	5kg
Dimensions	See below

For extended travels or non-standard configurations please contact Q-Sys

1) including repeatability

2) with no load and measured 50mm above carriage



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