

Quadropod Q-315

- multi-axis positioning systems possible by simple combination with conventional stages
- use of stress-relieved, highly resilient materials guarantees high system stability and long life
- high-precision recirculating spindle drive
- use of low-friction guides results in optimum fine adjustment due to high reproducibility of minimum system step distance
- mounting of drive spindle free of play
- robust surfaces through galvanic anodisation
- Encodersystem: Renishaw Resolute (32-bit)

Dimension

L	B	H
550mm	550mm	230,4mm

Specification (maximum individual movements)

Travel ranges [mm]	X	+/-25
	Y	+/-25
	Z	+/-14
Angle ranges [°]	Rx	+/-5,6
	Ry	+/-5,6
	Rz	+/-9,1

Max. loads

Fmax (vertical)	Fmax (horizontal)
1000N	350N

Specification - translational motion:

		X1	X2	X3
Accuracy [µm]	<= +/-12	4	on request	
Repeatability unidir. [µm]	<= 5	2	on request	
Resolution [µm]	<= 3	1	on request	

Flatness [μm]	<= +/-3	1	on request
Straightness [μm]	<= +/-3	1	on request
Yaw ["]	<= +/-10	5	on request
Pitch ["]	<= +/-10	5	on request
Roll ["]	<= +/-10	5	on request

Specification - rotarory motion:

	X1	X2	X3
Accuracy [arcsec]	<= +/- 25	15	on request
Repeatability [arcsec]	<= 5	2	on request
Resolution [arcsec]	<= 3	1	on request

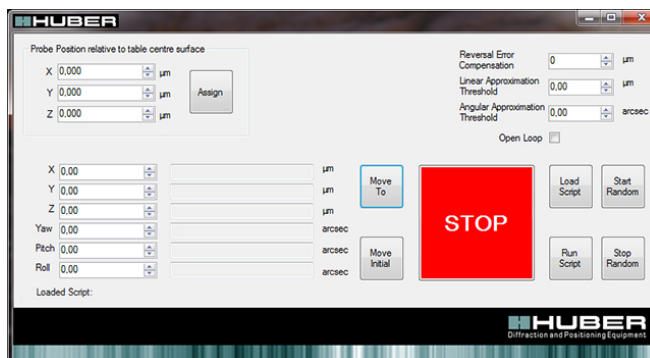
Application specific versions:

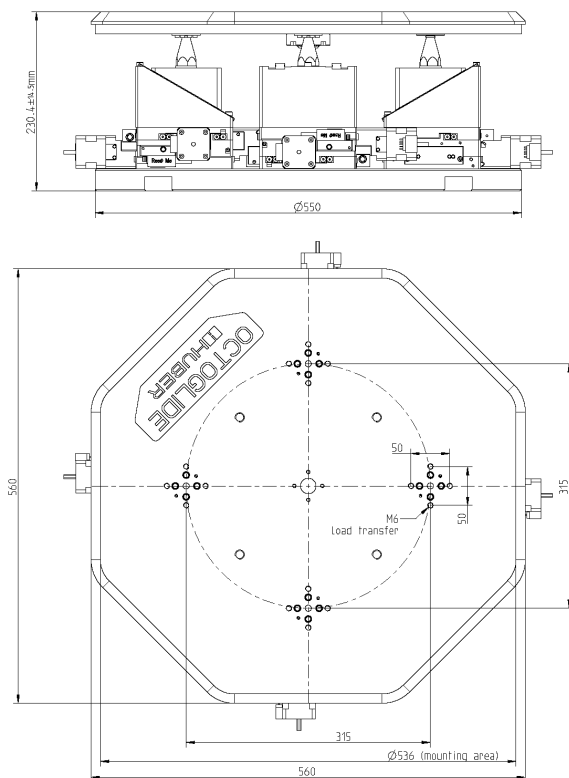
- vacuum suitable
- antimagnetic
- radiation resistant
- in black

Controlling

The Quadropod controlling is realized by a special developed controlling software in combination with an 8-axes stepper motor controller.

- centre of rotation is freely definable
- input of absolute position- and angle values
- optional: open or closed loop functionality
- interface for client connection
- remote operation via special command protocol





max. single movements:

Delta "Z" max. = 29mm
Delta "rot Z" max. = $\pm 9.1^\circ$
Delta "X" max. = ± 25 mm
Delta "rot X" max. = $\pm 5.65^\circ$
Delta "Y" max. = ± 25 mm
Delta "rot Y" max. = $\pm 5.65^\circ$
Delta "rot" crosswise to X/Y (Rot-axis 45° to X/Y) max. = $\pm 8^\circ$

Attention!!!
with combined movements, the max.single values are reduced

