

LabStandardCOMPACTDUO

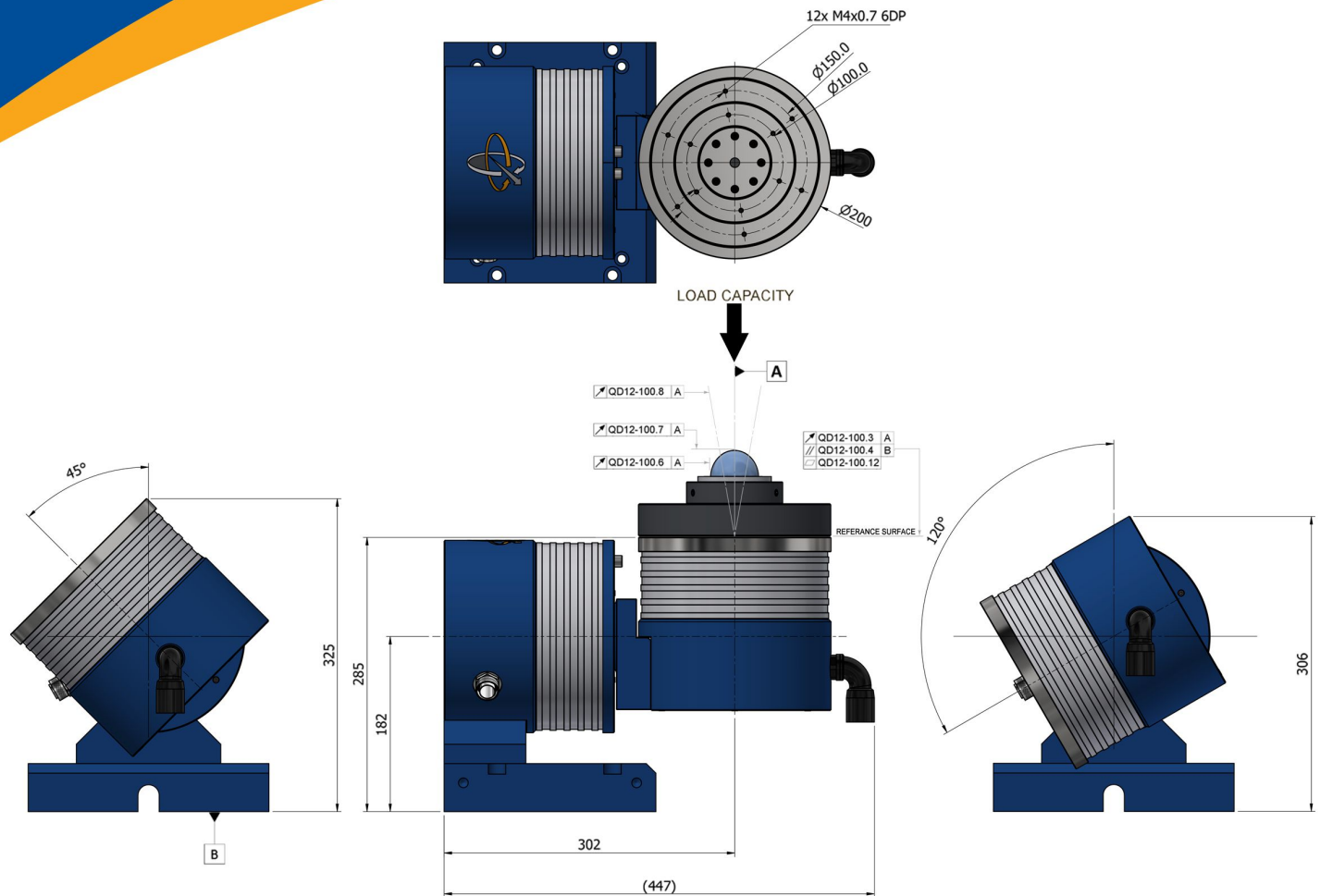
HIGH PRECISION ANGULAR POSITIONING, CALIBRATION AND GEOMETRY INSPECTION

Ultra precise rotary table intended for fine inspection, metrology and test applications.

A dual axis rotary table specifically designed for the inspection of complex 3D parts with a zero backlash drive. Offers smooth and precise rotational motion suitable for fine positioning and precision testing, ideal for 360° inspection of aero-engine rotor blades and blisks.

Measurement Capacity:

- 360° Rotary and +/-120° tilting axis
- Size Ø200mm
- Dual axis
- Load capacities up to 5kgs or 5Nm
- Rotation speed 10 rpm
- Zero backlash drive
- Rotary axis angular accuracy 2 arc seconds
- Tilt axis angular accuracy 5 arc seconds



LabStandardCOMPACTDUO SPEC				
	Technical Data	RPI QD Number	Units	QuadProfileDUO
Accuracy	Rotary Stage Angular Positioning Accuracy*	QD12-100.5	Arc Seconds	2
	Tilt Stage Angular Positioning Accuracy*	QD12-100.5		5
Precision	Radial Error Motion	QD12-100.6	µm	1
	Axial Error Motion	QD12-100.7		1
	Tilt Error Motion	QD12-100.8	Arc Seconds	+/- 1
	Total Face Runout (Table Top)	QD12-100.3	µm	5
	Flatness (Table Top)	QD12-100.12		5
	Parallelism (Table Top)	QD12-100.4		10
	Squareness (Table Top)	QD12-100.10		10
Drive assembly	Load Capacity	N/A	kgs	5
	Maximum Continuous Torque		Nm	40
	Maximum Polar Inertia		Kgm ²	0.05
	Maximum Tilt Moment		Nm	5
	Maximum rpm		rpm	10
	Weight		kgs	75
Range	Traverse Range - Tilt Axis	N/A	degrees	+/- 120
	Traverse Range - Rotary Axis			360

QD56-24-A

Additional information available on request

* The total bi-directional Angular Accuracy of the system including the effects of bi-directional Repeatability with a coverage factor of k = 2.