RPI
Rotational Innovation

LabStandard

High precision measurement system for sub arc second angular calibration and circular geometry inspection

www.rpiuk.com

LabStandard's capabilities delivers new levels of accuracy, flexibility and performance over a wide range of calibration and inspection applications.

Compatible With Other Measuring Devices

Compatibility allows LabStandard to easily integrate into a wide range of metrology applications.

Vertical and Horizontal Axis

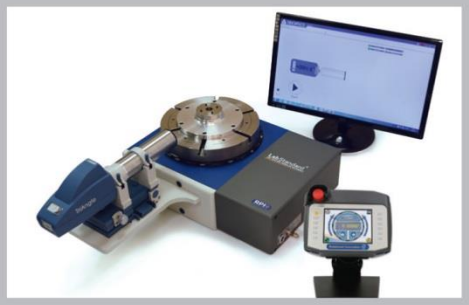
LabStandard's construction allows operation with its axis horizontal or vertical without any noticeable change in performance.

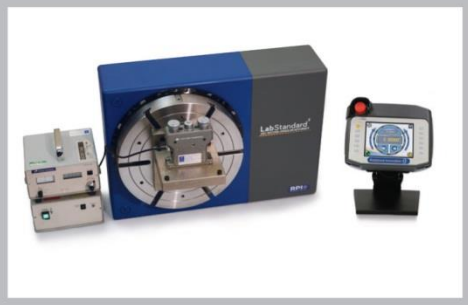
Process Reference Standard

The combination of sub arc second angular accuracy with sub micron circular geometry reduces process measurement uncertainty to a level where LabStandard can be considered your measurement reference standard.

Automatic Sequencing

The programmable ArcMotion GUI allows the operator to accurately and efficiently carry out sequencing and repetitive operation using the in-built step and repeat programming function.





LabStandard's features have been designed to help you get the job done.

Provides Reduced Measurement Uncertainty

The combination of sub arc second positioning accuracy and bearing geometry of less than 0.0005mm ensures a minimum impact on your process measurement uncertainty.

Reduced Inspection Times

The integration with ArcMotion our high resolution motorised GUI significantly reduces process times while drastically reducing errors associated with manually positioned devices.

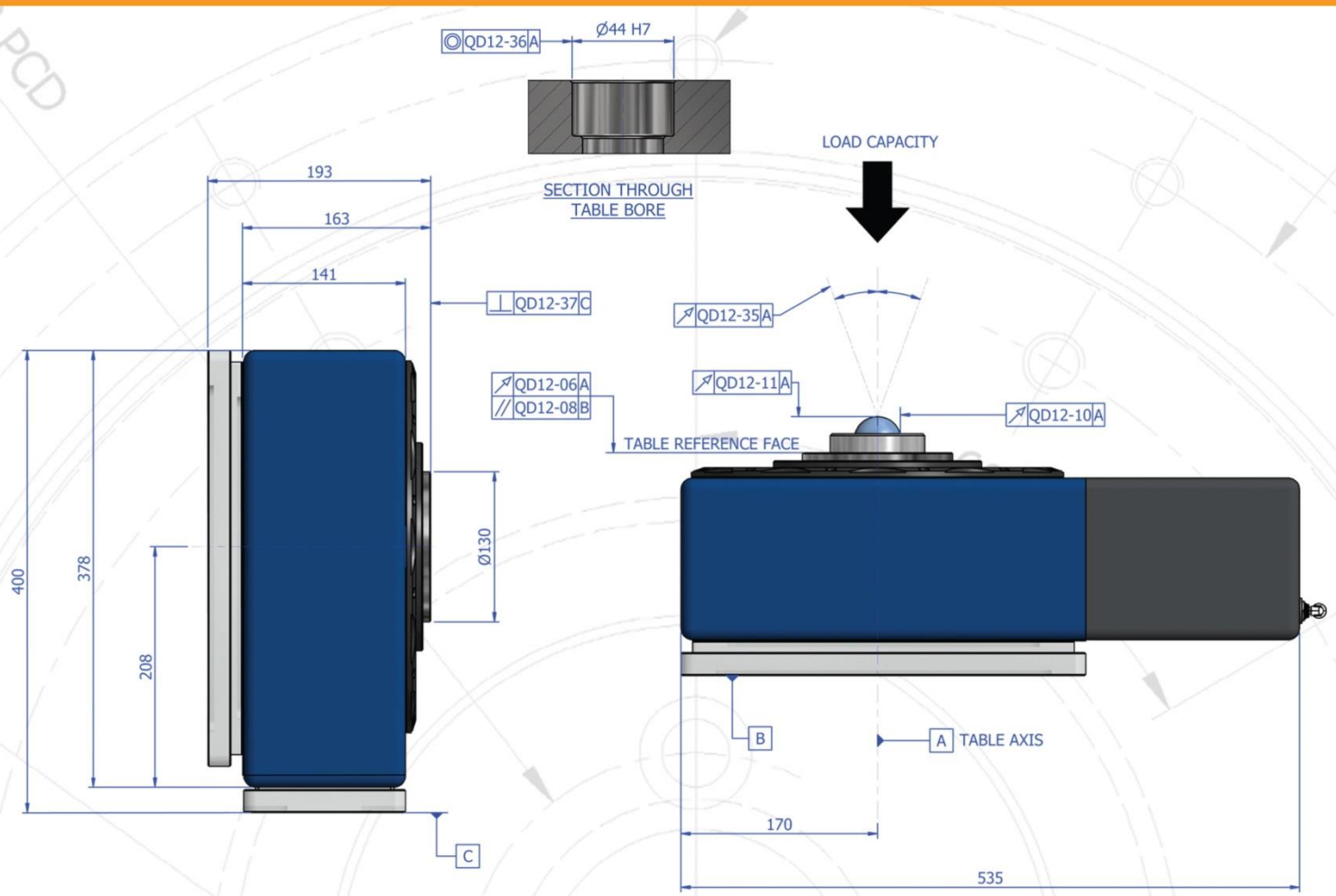
Multiple Inspection Applications

Flexibility and a range of accuracies allow the LabStandard to fulfil a wide range of applications.

High Resolution Touch Screen

LabStandard comes fully integrated with RPI's rugged and programmable high resolution user interface the ArcMotion.

Technical Information



Technical Data	QD	Units	LabStandard[10]	LabStandard[5]	LabStandard[2]	LabStandard[+]
Centre Line Height		mm	230			
Load Capacity		kgs	1000			
Maximum Polar Inertia		Kgm^2	40			
Maximum Tilt Moment		Nm	500			
Maximum rpm		rpm	4			
Spindle Rotation Error	12-06	mm	0.0005	0.0005	0.0005	0.003
Parallelism*	12-08	mm	0.006	0.006	0.006	0.004
Angular Positioning Accuracy	12-09	Arc seconds	10	5	2	1
Angular Repeatability		Arc seconds	+/-0.5	+/-0.5	+/-0.2	+/-0.2
Resolution	12-56	Arc seconds	0.2			
Clamp Shift (Fitted as option)		Arc seconds	2			
Radial Runout of Table Axis	12-10	mm	0.0005			
Axil Runout of Table Axis	12-11	mm	0.0006			
Coning of Table Axis	12-35	Arc seconds	+/-1	+/-1	+/-0.5	+/-0.5
Concentricity of Centre Bore	12-36	mm	0.005	0.005	0.0025	0.0025
Squareness of Spindle Face*	12-37	mm	0.006	0.006	0.004	0.004
Table Weight (Without Table Top and Clamping Plate)		kgs	84			
Table Top Options		mm	ø250, 300, 400			
Flexible Tooling Interface			HSK, Lang, Schunk, Gewefa (other options available on request)			

*Requires optional clamping plates

"You can know a company by the companies it keeps"

Interested to know more about the ground-breaking LabStandard range of inspection systems?

Call: +44 (0)1225 426206
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Measurement systems designed,
developed and manufactured by
Rotary Precision Instruments UK Ltd

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