



i72 DiamondStandard

High accuracy calibration system for rotary devices, instrument positioning and application that demand exceptional angular positioning and repeatability

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i72 DiamondStandard capabilities delivers new levels of accuracy, flexibility and performance over a wide range of calibration and inspection applications.

Compatible With Other Measuring Devices

Compatibility and flexibility allows i72 DiamondStandard to easily integrate into a wide range of metrology applications.

Vertical and Horizontal Axis

Fully flexible system capable of operation in 4 orientations including horizontal, vertical or even upside down to cope with all manner of rotary axis applications.

Full Automation

Capable of fully automated calibration resulting in significant time savings over more traditional methods.

72 Indexable Positions

The 5° indexing capability allows 72 positions to calibrate within 360°, it is virtually impossible to achieve these measurements with an optical polygon.





i72 DiamondStandard features have been designed to help you get the job done.

Provides Reduced Measurement Uncertainty

The combination of sub arc second positioning accuracy and repeatability of 0.2 arc seconds ensures a minimum impact on your process measurement uncertainty.

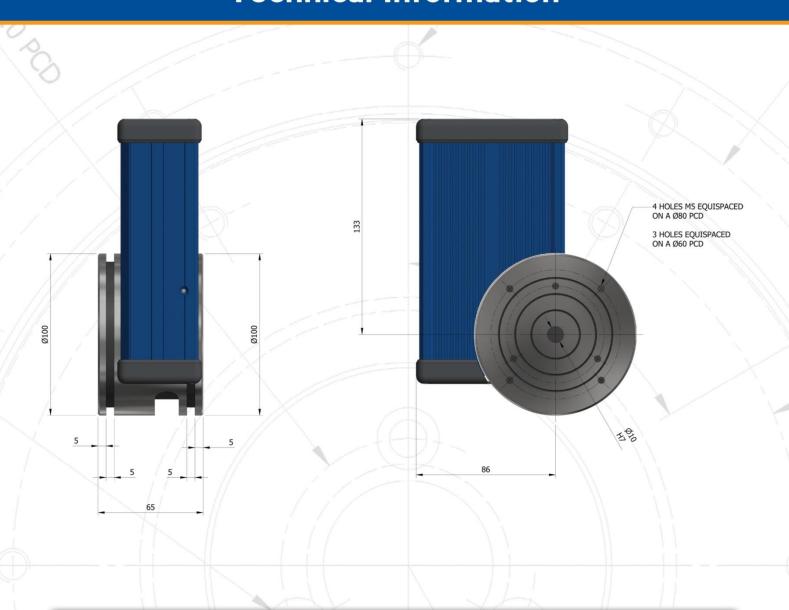
Multiple Inspection Applications

Flexibility and a range of accuracies allow the i72 DiamondStandard to fulfil a wide range of applications.

Reduced Inspection Times

Easy integration with 3rd party application significantly reduces process times while drastically reducing errors associated with manually positioned devices.

Technical Information



| Technical Data | QD | Units | i72 DiamondStandard ² | i72 DiamondStandard⁺ | |
|------------------------------|-------|-------------|---|----------------------|--|
| Range | | Degrees | 360 | | |
| Rotation Error of Table Top | 12-06 | | 0.002 | | |
| Flatness of Table Top | 12-07 | mm | 0.002 | | |
| Parallelism | 12-08 | | 0.005 | | |
| Radial Runout of Table Axis | 12-10 | | 0.0005 | | |
| Concentricity of Centre Bore | 12-36 | | 0.010 | | |
| Squareness of Spindle Face* | 12-37 | | 0.006 | | |
| Indexing Accuracy | 12-09 | Ara assenda | +/-0.5 | +/-1 | |
| Repeatability | | Arc seconds | 0.2 | | |
| Maximum Load Moment | | kgcm | 2 | | |
| Load Capacity | | kas | 5 | | |
| Table Weight | | kgs | 4 | | |
| Maximum rpm | | rpm | 2 | | |
| Operating temperature | | °C (°F) | 10-30 (50-86) | | |
| Flexible Tooling Interface | | | HSK, Lang, Schunk, Gewefa (others available on request) | | |

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













Interested to know more about the ground-breaking i72 DiamondStandard range of inspection systems?

Call: +44 (0)1225 426206

Email: sales@rpiuk.com

Visit: www.rpiuk.com

Measurement systems designed, developed and manufactured by

Rotary Precision Instruments UK Ltd

For further information please visit: www.rpiuk.com

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