

## HPR-2000 Rotary

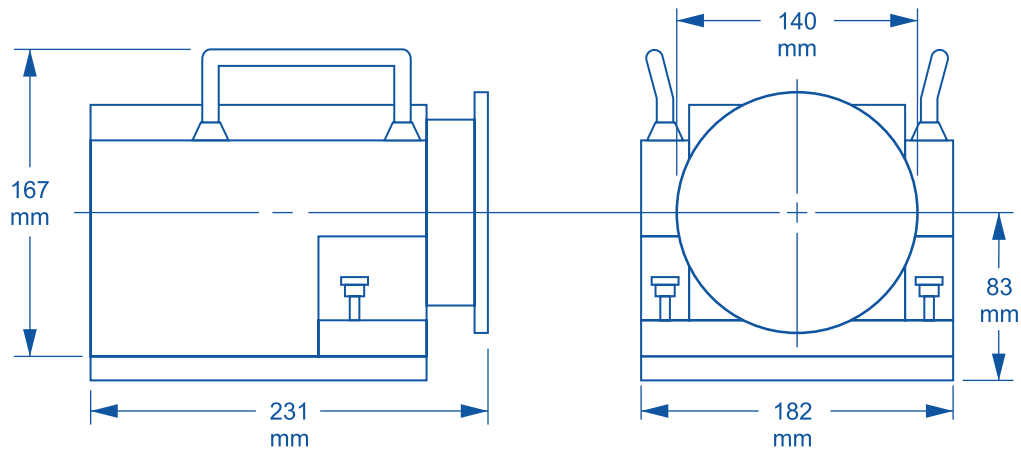
The compact HPR-2000 Rotary provides high accuracy air-bearing fourth axis measuring for QVI dimensional measurement systems.

- Precision air bearing spindle, powerful direct drive DC servo motor, and a precision ruled rotary encoder offer high accuracy, yet the spindle can rotate a full revolution in less than 8 seconds
- QVI 3D metrology software can rotate the rotary-mounted part coordinate reference system in 3D space to maintain datum and measurement integrity
- Can be mounted horizontally or vertically, or may be paired with a QVI Heavy Duty Rotary (HDR) for a 5<sup>th</sup> axis of rotation

### High Precision Air-Bearing Rotary Indexer



# HPR-2000 Rotary



Unit Weight: 20 Kg

## Technical Specifications

<b>Metrology software compatibility<sup>1</sup></b>	QVI® ZONE3® or MeasureMind® 3D
<b>Metrology system travel requirements</b>	Min XY travel 450 x 450 mm, min Z travel 300 mm
<b>Spindle centerline to worktable</b>	95 mm, when spindle axis is in horizontal plane
<b>Utility requirements</b>	110-240 vac, ±10%, 50/60 Hz; clean, dry air @ 6.33 kg/cm <sup>3</sup> min, 28 liters/minute flow rate
<b>Moment load capacity</b>	10.0 kg-cm off-axis, 11.4 kg-cm for symmetrically distributed on-axis load
<b>Maximum rotational speed</b>	45° per second, 360° rotation in 8 seconds
<b>Operating environment, safe operation</b>	15-30° C
<b>Rated environment</b>	Temperature 18-22° C, stable to ±1° C; 30-80% humidity
<b>Position resolution<sup>2</sup></b>	0.9 arc second
<b>Positional accuracy<sup>2</sup></b>	±1 arc second between any two points
<b>Axial error motion<sup>2</sup></b>	< 0.127 µm runout
<b>Radial error motion<sup>2</sup></b>	< 0.127 µm runout
<b>Angular error motion<sup>2</sup></b>	0.1 arc second

<sup>1</sup>MeasureMind 3D or ZONE3 required for support of 3D datum transformations.

<sup>2</sup>Resolution, accuracy and runout specifications with off-axis stage loading may be greater than standard specifications.



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