



Swivelcheck

Vertical and Horizontal (optional) Axis Measurement

The SC100M was developed for calibration of the vertical (A) rotary axis of machine tools. The system was developed using a gravity level reference. The horizontal axis (B) requires the horizontal table option to use the 5/6D laser as the reference. The level is mounted in a servo-motor-driven nest, which is coupled to a precision rotary encoder. Once mounted to an axis, all measurement commands and procedures are controlled by the operator from the computer used for data acquisition. This method of operation avoids safety concerns of the test operator working near active machine axis.

Swivelcheck Features:

- Not necessary to mount on center of rotation (vertical axis)
- Integral Electronic Level/Rotary Encoder
- Servo-positioning
- System Control with RS-232 Interface
- Carrying Case
- One Year Warranty

Software:

- Menu-driven, WIN 95/98/NT
- Graphical Display of results
- On-Line Help
- Interactive Set-up
- Zero position adjustable from 0° to 440°

Available Options:

- Vertical table option provides side mounting bracket for easy mounting to rotary tables
- Horizontal table option provides a laser quality flat mirror, mounting flange, and software to measure horizontal rotary tables. This requires the use of an API 5/6D Laser
- Metric arbor



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Specifications:

Range:	440° (0 to ± 220°)
Resolution:	0.3 arc-second
Dimensions (approx.):	13 cm x 18.5 cm x 22 cm (5.1 in. x 7.3 in. x 8.6 in.)
Shank:	1" (or 25mm metric options)
Weight:	Approx. 14 lbs.

Applications:

- Calibrate Swivel Axis & Tilt Tables on 4 and 5 Axis Machining Centers
- Evaluate Rotary Axis Performance vs Specification
- Measure vertical rotary tables (requires side mounting flange option)
- Measure horizontal rotary tables when used with API 5/6 Laser System (requires option)