

TurnCheck™ Series-6

TurnCheck™ Series-6 systems are precision optical shaft measuring instruments designed for shop floor environments. Rugged and reliable, TurnCheck accommodates parts up to 300 mm in length.

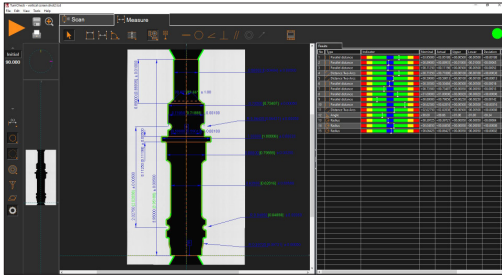
- Completely telecentric, large field of view optical system
- Measure diameters as large as 60 mm and lengths up to 300 mm
- TurnCheck easily measures all critical dimensions of turned parts, from simple lengths and diameters to distances, angles, radii, form, position, cylindricity, and runout
- Optional $\pm 15^\circ$ of helix angle adjustment for correct thread form measurements

Series-6	6 ³⁰
Maximum Diameter Measurement (mm)	60
Maximum Length Measurement (mm)	300

High Performance Benchtop Shaft Measurement System



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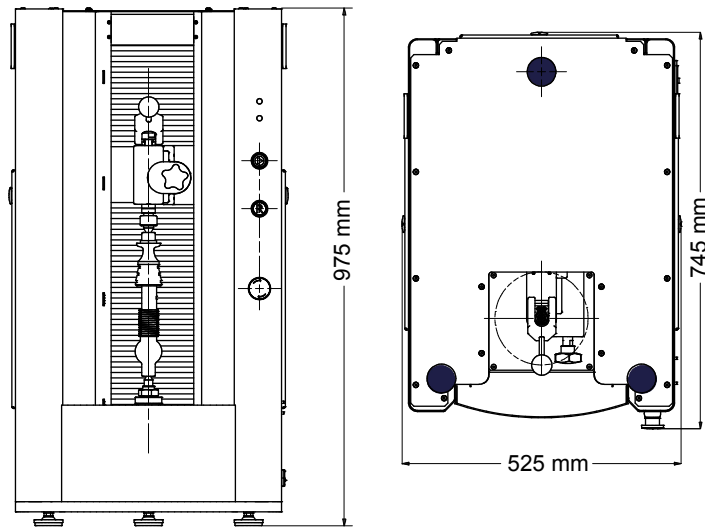


Measurement & Analysis Capabilities:

- Automatic data point and feature extraction
- Advanced image analysis technology
- Easy walk up measurements
- Dimension comparison directly to 2D CAD
- True high definition of part image display
- Optional SmartProfile® software for 3D analysis and advanced GD&T

Rugged, Easy To Use Design:

- Easy loading – one-handed tailstock operation
- Additional optional workholding kits available for parts that do not have centers



System Weight: 150 kg
Shipping Weight: 200 kg

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Measurement Capacity & Machine Size*	
Vertical measuring range	300 mm
Maximum diameter measuring range	60 mm
Maximum part size	170Ø mm x 300L mm
Machine size	525 mm x 745 mm x 975 mm
* Between standard centers.	
System Performance	
Rotational scanning speed	60 RPM
Vertical scale resolution	0.1 µm
Video edge resolution	0.5 µm
Rotational scale resolution	0.001 degrees
Rated spindle load	20 kg
Optional helix angle adjustment	±15 degrees
Accuracy**	
Diameter measurement	1.8 + D/100 µm
Diameter repeatability (4s)***	1.0 µm
Length measurement	3.5 + L/150 µm
Length repeatability (4s)***	3.0 µm
Rated Environment & Facilities	
Rated environment	Temperature 18-22 °C; 30-80% humidity; vibration <0.001g below 15 Hz
Operating temperature range	15 - 30 °C
Power requirements	100 - 120 VAC or 200 - 240 VAC, 50/60 Hz, 1-Phase, 650 W

**Where D, L = measuring length in mm. Applies to thermally stable system in rated environment. Maximum rate of temperature change: 1 °C/hour. Maximum vertical temperature gradient: 1 °C/meter. Applies to a work piece with its center of mass located on the spindle axis.

***Repeatability (4s) is based on 25 repeated measurements on ground metal objects.



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