



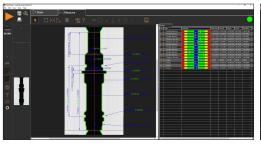
TurnCheck Series-10 systems are precision optical shaft measuring instruments designed for shop floor environments. Rugged and reliable, TurnCheck Series-10 has a completely telecentric, large field of view optical system that accommodates parts with shaft diameters up to 100 mm. The granite base support for rotary provides a rigid base and isolates vibration.

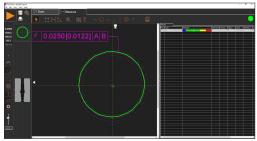
- Measure Within Seconds Shaft lengths up to 1200 mm.
- Collimated LED illumination –
 Reduces distortion to provide
 superior image quality and improved
 measurement of critical dimensions
 of all feature types.
- Shop-Floor Debris Protection –
 Optics drop down below the stage when machine is not in use.

 Convenient air blow-off mounted to the front of the machine for cleaning parts prior to measurement.

High-Performance Shaft Measuring Machine







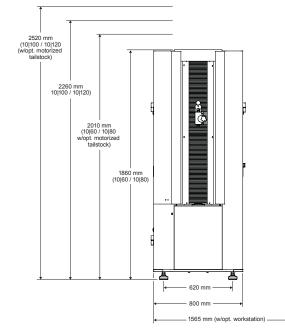
TurnCheck™ Series-10

Measurement & Analysis Capabilities:

- Automatic data point generation and simple feature extraction
- · Advanced image analysis technology
- · Program using DXF CAD models
- · True high definition of part image display
- · Built-in temperature compensation
- Optional SmartProfile® software for 3D analysis and advanced GD&T

Rugged, Easy To Use Design:

- Easy loading one-handed tailstock operation Built-in light curtain to safeguard the operator during automatic measurement
- Additional optional workholding kits available for parts that do not have centers
- Optional motorized upper tailstock to assist operators with part loading





System Weight: 530 kg Shipping Weight: 630 kg

Series-10	10 60	10 80	10 100	10 120	
Measurement Capacity & Machine Siz	ze ¹				
Vertical Measuring Range	600 mm	800 mm	1000 mm	1200 mm	
Maximum Diameter Measuring Range	100 mm	100 mm	100 mm	100 mm	
Maximum Part Size	175∅ mm x 600L mm	175Ø mm x 800L mm	175Ø mm x 1000L mm	175Ø mm x 1200L mm	
System Performance					
Vertical Scanning Speed		100 mm/sec			
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		80 kg			
Accuracy					
Diameter Measurement		1.8 + D/100 µm			
Diameter Repeatability		1.0 µm			
Length Measurement		3.5 + L/150 μm			
Length Repeatability		3.0 μm			
Rated Environment & Facilities					
Power Requirements		100-120 VAC or 200-240 VAC, 50/60 Hz, 1-Phase, 650 W			
Compressed Air Requirements	Air supply pressure: 0.45 N	Air supply pressure: 0.45 MPa; Minimum Flow capacity: 175 I/min; Air quality ISO 8573-1:2010 Class 4.3.4 or better			
Safe Operating Environment		15-30 °C, non-condensing			
Rated Environment	Temperature 18-22 °C	Temperature 18-22 °C, stable to ± 1 °C, max rate of change 1 °C / hour, max vertical gradient of 1 °C meter; 30-80% humidity; vibration <0.001g below 15 Hz			

Accuracy is evaluated with a QVI® compensation and verification procedure where "D" is measured diameter in millimeters and "L" is measured length in mm. Specifications apply within the rated environment. Accuracy applies to a work piece with its center of mass located on the spindle axis. Depending on load distribution, accuracy at maximum payload may be less than standard.

Between standard centers.



Confidence. When Results Matter.™

World Headquarters: Rochester, NY, USA • 585.544.0400 • www.ogpnet.com

OGP Shanghai Co, Ltd: Shanghai, China

86.21.5045.8383/8989 • www.smartscope.com.cn

OGP Messtechnik GmbH: Hofheim-Wallau, Germany

49.6122.9968.0 • www.ogpmesstechnik.de

Optical Gaging (S) Pte Ltd: Singapore • 65.6741.8880 • www.smartscope.com.sg