

**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 800 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





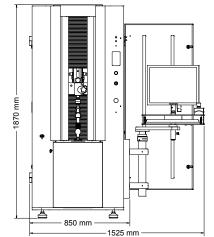
## TurnCheck<sup>™</sup> Series-10

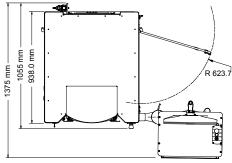
## Measurement & Analysis Capabilities:

- Automatic data point generation and simple feature extraction
- · Advanced image analysis technology
- Program using DXF CAD models
- True high definition of part image display
- Optional SmartProfile<sup>®</sup> 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





System Weight: 530 kg Shipping Weight: 630 kg

Series-10	10 40	10 60	10 80	
Measurement Capacity & Machine Si	Ze*			
Vertical Measuring Range	400 mm	600 mm	800 mm	
Maximum Diameter Measuring Range	100 mm	100 mm	100 mm	
Maximum Part Size	175Ø mm x 400L mm	175Ø mm x 600L mm	175Ø mm x 800L mm	
Machine Size	850 mm x 1055 mm x 1870 mm	850 mm x 1055 mm x 1870 mm	850 mm x 1055 mm x 1870 mm	
Machine Size with Optional Workstation	1525 mm x 1055 mm x 1870 mm	1525 mm x 1055 mm x 1870 mm	1525 mm x 1055 mm x 1870 mm	
* Between standard centers.				
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	Power: 100-120 VAC or 200-240 VAC, 50/60 Hz, 1-Phase, 650 W			
Compressed Air Requirements	Air supply pressure: 0.4 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; 30-80% humidity; vibration <0.001g below 15 Hz			

\*\*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.



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

© 2022 Quality Vision International Inc. Specifications subject to change without notice. All rights reserved. Trademarks are the properties of their respective owners. Export of this product is controlled under U.S. Export Regulations. An Export License may be required for deliveries or re-export outside the United States. Part Number 794070-0322