

TurnCheck[™] Series-14

TurnCheck Series-14 systems are precision optical shaft measuring instruments designed for shop floor environments. Rugged and reliable, TurnCheck Series-14 has a completely telecentric, large field of view optical system that accommodates parts with shaft diameters up to 135 mm. The granite base support for rotary provides a rigid base and isolates vibration.

- Measure Within Seconds Shaft lengths up to 1000 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.

Large Capacity Shaft Measuring Machine





TurnCheck 14|100 model with optional workstation shown.



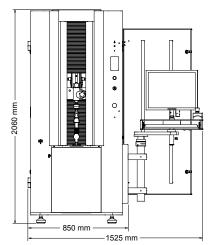
TurnCheck[™] Series-14

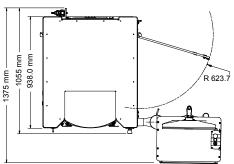
Measurement & Analysis Capabilities:

- 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[®] 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: 640 kg Shipping Weight: 760 kg

Series-14	14 100
Measurement Capacity & Machine Size*	
Vertical Measuring Range	1000 mm
Maximum Diameter Measuring Range	135 mm
Maximum Part Size	175Ø mm x 1000L mm
Machine Size	850 mm x 1055 mm x 2060 mm
Machine Size with Optional Workstation	1525 mm x 1055 mm x 2060 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	120 kg
Accuracy**	
Diameter Measurement	3.0 + D/100 μm
Diameter Repeatability	1.5 µm
Length Measurement	5.0 + L/150 μm
Length Repeatability	3.8 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 MPa; Minimum Flow capacity: 175 l/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
This equipment complies with EMC directive EN IEC 61326-1, Class A. **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/mete 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

© 2023 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 794258-0523