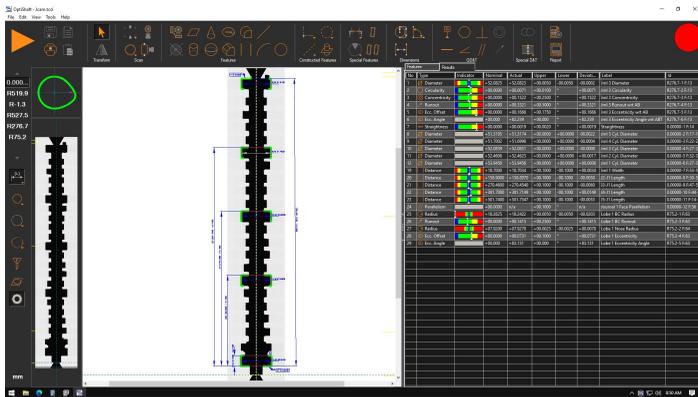


OptiShaft™ S60

Optical Shaft Measuring Machine
60mm Field of View



Intuitive user interface for gage programming, data collection, and reporting

The Adcole OptiShaft S60 is a precision optical shaft measuring instrument designed for shop floor environments but is equally suited for the laboratory. Rugged and reliable, OptiShaft systems use a completely telecentric, large field of view optical system that measures parts with diameters up to 60 mm, and lengths up to 300 mm.

Measure Within Seconds

Fast measurements on part lengths up to 300mm and diameters up to 60mm.

Collimated LED illumination

Reduces distortion to provide superior image quality and improved measurement of critical dimensions of all feature types.

Features and Benefits:

- Innovative telecentric optics enabling a large depth of field with minimal distortion
- Advanced edge-detection technology providing sub-pixel resolution for superior accuracy and repeatability
- Automatic data point generation and simple feature extraction
- Exceptional image analysis software allows for simple feature extraction and measurements
- Program using DXF CAD models
- True high definition of part image display
- Optional SmartProfile® software for 3D analysis and advanced GD&T
- 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
- User-friendly interface that makes it easy to quickly integrate the system into a factory or audit room workflow



Adcole OptiShaft model S60/03

Built-in Thread Library

Optional ±12.5° motorized helix viewing angle that automatically adjusts based on thread value.

Engineered for Shop-Floor Use

The granite base supports the rotary table providing a rigid base and vibration isolation.

Optics drop down below the stage for protection when machine is not in use.

OptiShaft S60

Measurement Capacity & Machine Size ⁱ	S60/03
Vertical Measuring Range	300 mm
Maximum Diameter Measuring Range	60 mm
Maximum Part Size	Ø 170 mm x L 300 mm
Machine Size	525 mm x 745 mm x 975 mm
Rated Spindle Load	20 kg

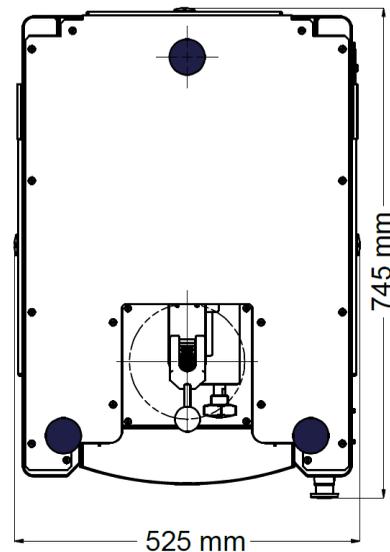
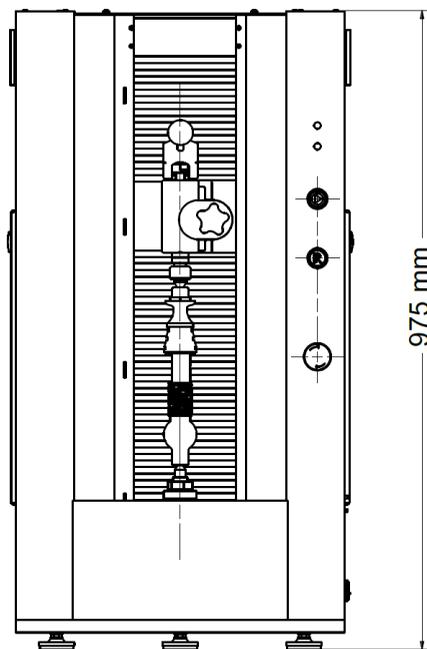
System Performance	
Vertical Scanning Speed	100 mm/sec
Rotational Scanning Speed	60 RPM
Vertical Scale Resolution	0.1 µm
Video Edge Resolution	0.5 µm
Rotational Scale Resolution	0.001°
Motorized Helix Angle Adjustment (Optional)	± 12.5°

Accuracy ⁱⁱ	
Diameter Measurement	1.0 + D/200 µm
Diameter Repeatability	0.5 µm
Length Measurement	3.0 + L/200 µm
Length Repeatability	1.2 µm

Rated Environment & Facilities	
Power Requirements Power:	100-120 VAC or 200-240 VAC, 50/60 Hz, 1-Phase, 650 W
Safe Operating Environment	15-30 °C, non-condensing
Rated Environment Temperature	18-22 °C; 30-80% humidity; vibration <0.001g below 15 Hz or better

ⁱ Between standard centers

ⁱⁱ 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.



System Weight: approx. 150 kg
Shipping Weight: approx. 200 kg

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