PDCDLE OptiShaft S60

**OPTICAL SHAFT MEASURING MACHINE** 

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 60mm, and lengths up to 300mm.

#### **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.

## **Built-in Thread Library**

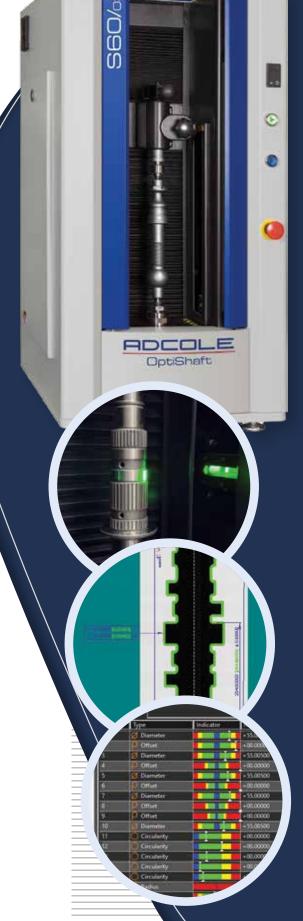
Optional #12.5° motorized helix viewing angle that automatically adjusts based on thread value.

### **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.

# Features & 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 measurement
- 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



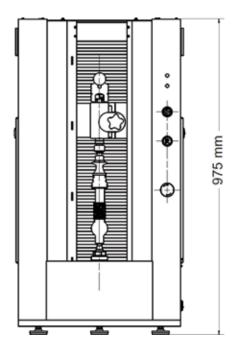


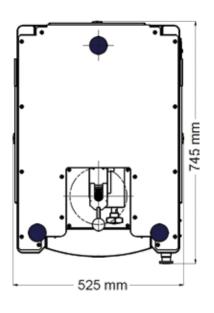
# OptiShaft S60 Specifications

Measurement Capacity & Machine Size i	<b>S60</b> /03	
Vertical Measuring Range	300mm	
Maximum Diameter Measuring Range	60mm	
Maximum Part Size	Ø 170mm x L 300mm	
Machine Size	525mm x 745mm x 975mm	
Rated Spindle Load	20 kg	
System Performance		
Vertical Spinning Speed	100mm/sec	
Rotational Scanning Speed	60 RPM	
Vertical Scale Resolution	0.1 μm	
Video Edge Resolution	0.5 μm	
Rotational Scale Resolution	0.0010	
Motorized Helix Angle Adjustment	± 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	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





System Weight: approx. 150 kg

Shipping Weight: approx. 200 kg

- i Between standard centers
- ii Where D, L = measuring length in mm. Applier to thermally stable system in rate environment. Maximum rate of temperature change: 1°C/hour. Maximum vertical temperature gradient: 1°C/meter.



