HDCOLE OptiShaft S100

DCOL

OPTICAL SHAFT MEASURING MACHINE

The Adcole OptiShaft S100 is a precision optical shaft measuring instrument designed for shop floor environments. Rugged and reliable, OptiShaft systems use a completely telecentric, large field of view optical system that measures parts with diameters up to 100mm.

Measure Within Seconds

Fast measurements on part lengths up to 1.2 meters and diameters up to 100mm.

Collimated LED Illumination

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

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.

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

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

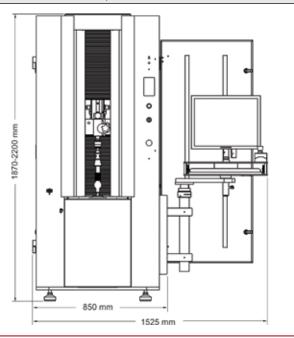


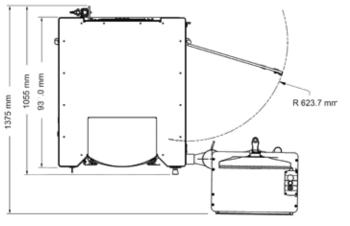
OptiShaft S100 Specifications

Measurement Capacity & Machine Size ⁱ	S100 /04	S100 /06	S100 /08	S100/ 12
Vertical Measuring Range	400mm	600mm	800mm	1200mm
Maximum Diameter Measuring Range	100mm	100mm	100mm	100mm
Maximum Part Size	Ø 175mm x L 400mm	Ø 175mm x L 600mm	Ø 175mm x L 800mm	Ø 175mm x L 1200mm
Machine Size	850mm x 1055mm x 1870mm			850mm x 1055mm x 2200mm
Machine Size w/ Optional Workstation	1525mm x 1375mm x 1870mm			1525mm x 1375mm x 2200mn
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	0.001°			
Rated Spindle Load	80 kg			
Accuracy "				
Diameter Measurement	1.0 + D/200 μm			
Diameter Repeatability	0.5 μm			
Length Measurement	3.0 + L/200 μm			
Length Repeatability	2.0 μm			
Rated Environment & Facilities				
Power Requirements	100-120 VAC or 200-240 VAC, 50/60 Hz, 1-Phase, 650 W			
Compressed Air Requirements	Air pressure: 0.4 MPa; Minimum Flow capacity: 175 l/min; Air quality ISO 8573-1:2010 Class 4.3.4			
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			

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System Weight: approx. 530 - 740 kg Shipping Weight: approx. 630 - 860 kg

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Between standard centers

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



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