

ADCOLE | 911 Series

FLEXIBLE AUTOMATED SHAFT METROLOGY

Recognized as the “gauge of record” for the past 40 years, the Adcole Model 911 helps organizations improve part quality, reduce scrap, and increase manufacturing efficiency. The gage is available in 609mm (24”), 914mm (36”), 1,524mm (60”), 2,286mm (90”), 2,667mm (105”), 3,302mm (130”), and 4,572mm (180”) part capacities, offering an automated metrology solution for every manufacturing need. The versatile 911 gage is ready-for-use on the shop floor and the quality control lab.

Features

- Provides 3,600 data points per revolution (every 1/10 of a degree)
- Offers fast cycle times and rapid part evaluation
- Accommodates a wide range of part lengths using an adjustable tailstock
- Includes diagnostic ways of measuring a feature and part identification capabilities for improved ease-of-use
- Standard high-speed upgrade kit
- Optional overhead light stack to monitor gage status such as Go/No-Go that shows pass/fail of the part

Benefits

- Reduces labor and material costs with superior gage accuracy and reliability
- Eliminates operator error with one button testing, concise pass/fail inspection reports, and more
- Measures multiple part types, features and complex geometries using a flexible gage platform
- Provides numerical and graphical representation of complex metrology data
- Offers automated export of data to grinding operations for fast out-of-tolerance corrections



THE MODEL 911
IS IDEAL FOR MEASURING
FEATURES ON:

- EV Rotor Drive and Output Shafts
- Balance & Eccentric Shafts
- Automotive and Diesel Engine Camshafts
- Transmission Shafts
- Robotic Reducer Shafts
- Compressor Shafts
- Pistons
- Precision Hydraulic Shafts

MODEL 911 GAGE SPECIFICATIONS

Accuracy Specifications – All Gages					
Radial Accuracy ⁱ	±0.5 µm				
Radial Resolution ⁱ	0.016 µm				
Angular Accuracy	<1 arc second (<0.0002°)				
Angular Resolution	0.00001°				
	911-24	911-36	911-36 WB	911-60	911-60 WB

General Specifications					
Axis of Rotation	Vertical				
Follower Stroke	120mm (4.72")	120mm (4.72")	155mm (6.10")	120mm (4.72")	155mm (6.10")
Swing Diameter	228mm (9")	228mm (9")	311mm (12.25")	228mm (9")	311mm (12.25")
Part Weight Max.	341 kg (750 lb)				
Part Length Max. ⁱⁱ	583mm (23.0")	888mm (35.0")	993mm (39.1")	1,495mm (58.9")	1,473mm (58.0")

Base Gage Dimensions					
Gage Height	2,004mm (80")	2,229mm (90.5")	2,426mm (95.5")	2,908mm (114.5")	
Gage Width	887mm (34.9")	887mm (34.9")	1,087mm (42.8")	938mm (36.94")	1,087mm (42.8")
Gage Depth	1,195mm (47")	1,195mm (47")	1,264mm (49.8")	1,195mm (47")	1,260mm (49.6")
	911-90	911-90 WB	911-105	911-130	911-180

General Specifications					
Axis of Rotation	Vertical				
Follower Stroke	120mm (4.72")	155mm (6.10")	120mm (4.72")	155mm (6.10")	
Swing Diameter	228mm (9")	311mm (12.25")	228mm (9")	311mm (12.25")	
Part Weight Max.	341 kg (750 lb)			680 kg (1,500 lb)	
Part Length Max. ⁱⁱ	2,250mm (88.6")	2,248mm (88.5")	2,631mm (103.6")	3,302mm (130")	4,572mm (180")

Base Gage Dimensions					
Gage Height	3,556mm (140")		3,937mm (155")	4,426mm (174.3")	5,715mm (225")
Gage Width	1,146mm (45.1")	1,280mm (50.4")	1,146mm (45.1")	1,727mm (68")	
Gage Depth	1195mm (47")	1308mm (51.5")	1195mm (47")	1,946mm (76.6")	

Parameters Supported

• Angularity	• Flatness	• Taper	• Lobe Velocity
• Center Deviation (hourglass/barrel)	• Lobing	• Chatter	• Perpendicularity
• Concentricity	• Lobe Lift	• Cylindricity	• Roundness (Circularity)
• Diameter (LSC, 2-Point Max/Min)	• Parallelism	• FFT Chatter	• Straightness
	• Profile	• Length	• True Position
	• Runout	• Lobe Angle	

Gage Support

Adcole machine support is provided by a factory trained field service team that is backed by more than 60 years of industry experience and ISO 9000 certification. Machine and application support, machine retrofit and upgrade services, plus part inspection and gage recertification services are offered to our global customer base. Adcole’s support regions include Japan, Korea, China, Brazil, Mexico, India, Europe and North America.

ⁱ Temperature 20±1 C°, Relative Humidity 40%-60%, Pressure 86KPa-106KPa.
ⁱⁱ Max. part length is approximate. Actual length is dependent on center tooling style, part center hole configuration, amount of TS travel needed to clear customer part, etc.

