ADCOLE
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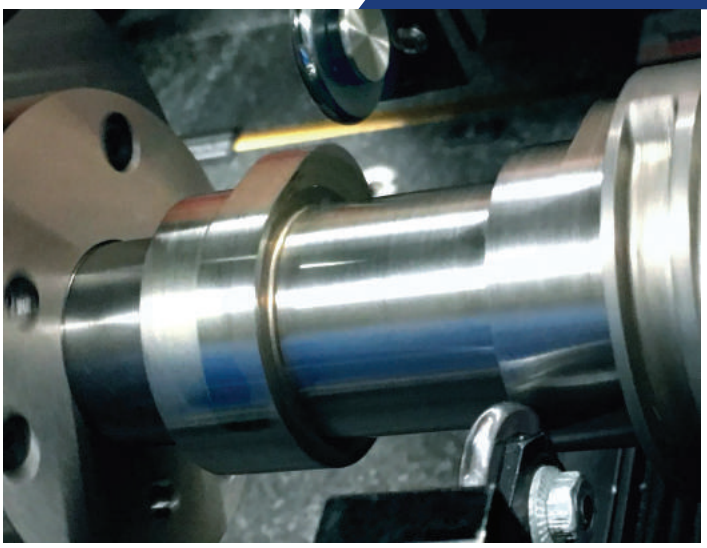
1302 Compact Horizontal Gage

MODEL 1302



The Adcole Model 1302 gage is engineered to measure sliding camshaft elements and small camshafts. This compact horizontal gage features a dual-head measurement configuration, enabling manufacturers to reduce cycle time while obtaining sub-micron accuracy and repeatability. The 1302 gage provides 3600 data points per revolution (every 1/10 of a degree), and offers up to 40 rpm headstock rotation speeds.

The 1302 gage is ideal for measuring features on:

- Camshafts
- Sliding Camshaft Elements
- Complex Cylindrical Parts

Features:

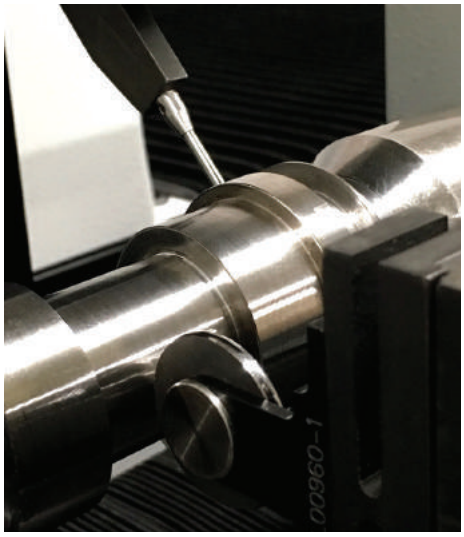
- Enables fast measurement of complex part features with two opposing measuring heads that operate independently
- Provides cam element identification with a hand-held or in-line fixed matrix reader
- Offers rapid, comprehensive part measurement with high rotational speeds and fast-moving carriages
- Ensures speed and accuracy with programmable follower and headstock speeds
- Optional Camtracker measures grooves and side walls with ± 9.5 mm travel using a Heidenhain probe

Benefits:

- Provides 3,600 data points per revolution (every 1/10 of a degree) for actionable metrology data
- Rotational speed of up to 40 RPM
- Offers user-friendly software for easy programming and maximum productivity
- Includes cryogenically hardened followers that last up to 3x longer than conventional designs

1302 Gage Specifications

Accuracy Specifications	Radial Resolution	.016 µm[i]
	Spindle Total Runout	< 0.15 µm
	Radial Accuracy	± 0.5 µm[i]
	Axial Accuracy	± 2 µm over 100 mm[i]
	Angular Resolution	0.00001°
General Specifications	Part Length (Max)	(12")
	Swing Diameter[ii]	178mm (7.0")
	Carriage Speed	3048mm (120") per minute
	Headstock Rotation Speed	40 rpm
Gage Dimensions	Gage Height	1214mm (47.81")
	Gage Depth	1111mm (43.75")
	Gage Width	1156mm (45.50")
	Gage Weight	2270kg (5000 lbs)



The Adcole Camtracker accessory option enables manufacturers to measure shifting groove profile parameters

Parameters 1302 Gage Measures

- Angularity
- Center Deviation
- Cylindricity
- Flatness
- Parallelism
- Profile
- Runout
- Straightness
- True Position
- Cam Lobe Lift Error
- Chatter
- Diameter
- Length
- Perpendicularity
- Roundness
- Shifting Groove Profile[iii]
- Taper

Adcole Machine Support

Adcole machine support is provided by an expert field service team that is backed by 50 years of industry experience and ISO 9000 certification. Machine and application support, machine retrofit and upgrade services, plus inspection services are offered to our global customer base. Regular and after-hours email and phone support is available 8am-11pm EST.

i Temperature 20±1 C°, Relative Humidity 40%-60%, Pressure 86KPa-106KPa
ii 105mm (4.13") with Camtracker option
iii With Camtracker option

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