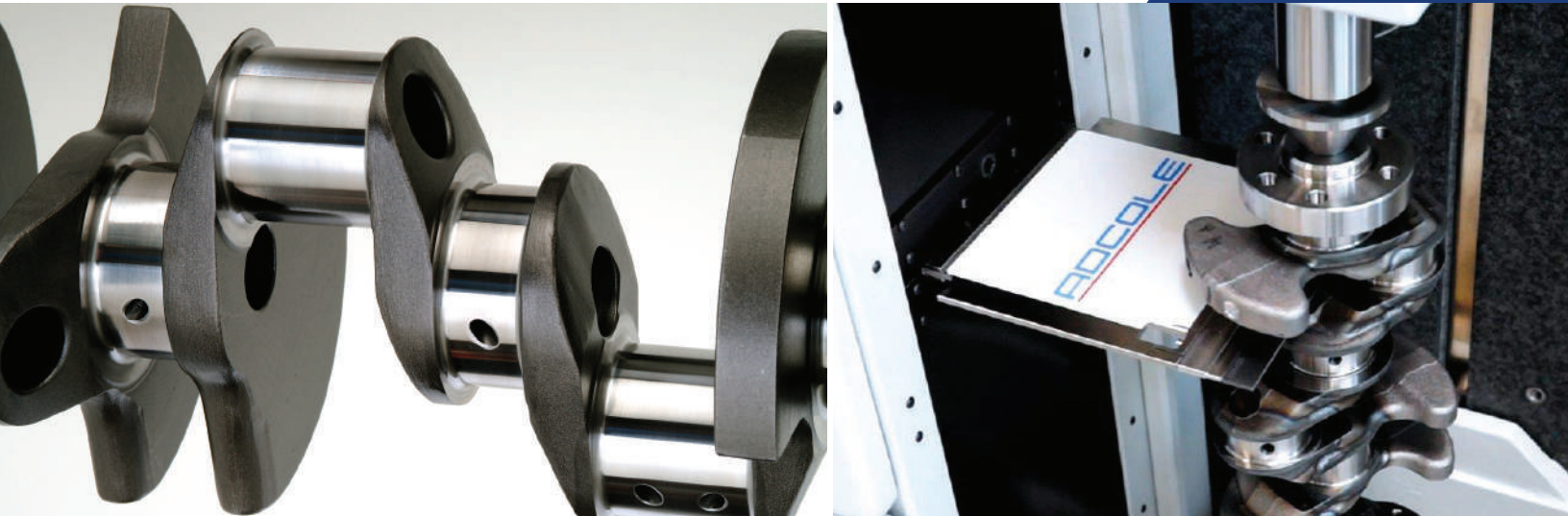


1100-GX Cylindrical Coordinate Measurement Machine

MODEL 1100-GX



The adaptable Adcole Model 1100-GX gage is engineered to operate in production environments. Designed to measure a broad range of part lengths and configurations, this rugged, versatile gage offers the latest in motion control, signal processing and linear encoder technologies. The newly redesigned gage is economical, fast, and very accurate.

The Model 1100-GX is ideal for measuring challenging features on:

- Axles
- Heavy Diesel Camshafts & Crankshafts
- Camshafts
- Transmission / Output Shafts
- Crankshafts
- Other cylindrical parts

Features:

- Smaller gage footprint saves valuable production floor space
- Dual custom Heidenhain linear encoders provide superior accuracy and repeatability
- Ball bearing spindle is exceptionally durable, and provides air bearing performance
- Brushless and linear slide motors supply more torque and speed, reduce friction, and improves measurement accuracy
- Optional enclosed measuring chamber with interlocking, easy-swing door ensures a clean gage measurement environment. Includes a Go/No-Go LED indicator that shows pass/fail of the part

Benefits:

- NextGen software allows users to scale and annotate the output report plots for better process control
- 1100-GX gage includes expanded tactile and optical measurement options in a rugged and adaptable design
- 3D Color Map and Program Builder software data analysis provides reporting, including: part summary, part programming, inspection packages, dimensions, calculated values for elements
- Offered with part lengths of up to 1500mm, the gage enables quality control of large camshaft and crankshaft assemblies

1100-GX Gage Specifications

Accuracy Specifications	Radial Resolution	.016 μm
	Headstock Runout	<0.1 μm
	System Radial Accuracy	$\pm 0.5 \mu\text{m}^1$
	X-Axis Radial Accuracy	$\pm 0.2 \mu\text{m}$
	Axial Accuracy	$\pm 2.0 \mu\text{m}/100 \text{ mm}$
	Angular Resolution	0.00001 ^o
General Specifications	Part Length (Max)	1100-GX 1 meter:1000 mm (39.37") 1100-GX 1.5 meter:1500 mm (59.06")
	Swing Diameter	300 mm (11.81")
	Part Weight (Max)	340 kg (750 lb)
	Carriage Speed	2286 mm/min (90"/min)
	Headstock Rotation Speed	Max 30 rpm
Gage Specifications	Gage Height	2535 mm – 3043 mm (99.8 – 119.8")
	Gage Width	1396 mm (55")
	Gage Depth	1720 mm (67.7")



Measured Camshaft Parameters	Measured Crankshaft Parameters
<ul style="list-style-type: none"> Center Deviation (hourglass/barrel) Concentricity Cylindricity Diameter (LSC, 2-Point Max/Min) FFT Chatter Length Lobe Angle Lobe Lift Lobe Velocity Lobing Parallelism Radius Roundness (LSC, MIC, MCC, MZC) Runout (axial, radial) Straightness Taper 	<ul style="list-style-type: none"> Center Deviation (hourglass/barrel) Coaxiality Concentricity Cylindricity Diameter (LSC, 2-Point Max/Min) Eccentricity FFT Chatter Index Angle Length Parallelism Radius Roundness (LSC, MIC, MCC, MZC) Runout (axial, radial) Straightness Taper Throw/Stroke

Adcole Machine Support

Adcole machine support is provided by a factory trained 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 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. Regular and after hours email and phone support is available 8am-11pm EST.

¹ Includes spindle runout, follower straightness and follower encoder accuracy