

# ADCOLE 1100-GX

## HIGH PERFORMANCE SHAFT GAGE

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.

### 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

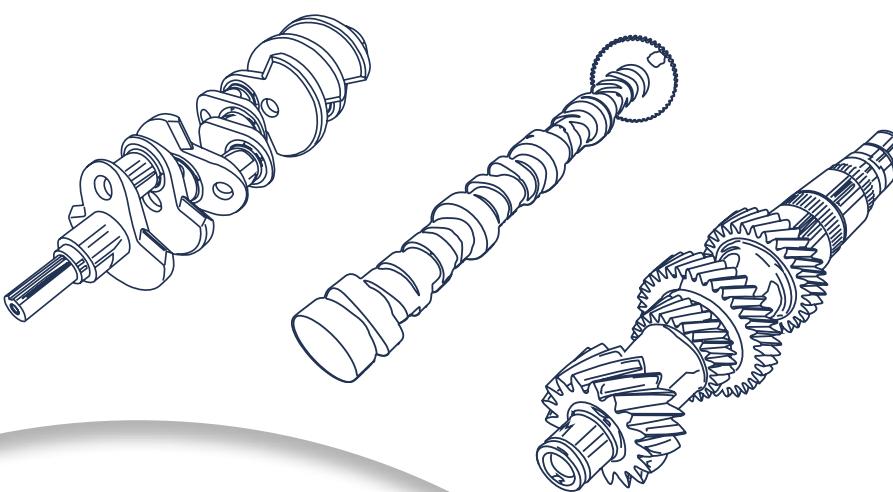
### Benefits

- NextGen software allows users to scale and annotate the output report plots for better process control
- 1100-GX gage includes expanded tactile 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



THE MODEL 1100-GX IS IDEAL FOR MEASURING CHALLENGING FEATURES ON:

- Axles
- Camshafts
- Crankshafts
- Heavy Diesel Shafts
- Transmission Output Shafts
- Other Cylindrical Parts



# Model 1100-GX Gage Specifications

	1100-GX (1M)	1100-GX (1.5M)
<b>Accuracy Specifications</b>		
Radial Resolution	0.016 $\mu$ m	
Radial Accuracy <sup>i</sup>	$\pm 0.4 \mu$ m	
Axial Accuracy	$\pm 2.0 \mu$ m / 100mm	
Angular Resolution	< 0.036 arc second (0.00001°)	
Spindle Total Runout	< 0.1 $\mu$ m	
<b>General Specifications</b>		
Part Length Max.	1,067mm (42")	1,575mm (62")
Part Weight Max.	340 kg (750 lb)	
Swing Diameter	300mm (11.81")	
Carriage Speed	4,570mm/min (180"/min)	
Rotational Speed Max.	1 to 20 rpm (Maximum 30 rpm)	
<b>Base Gage Dimensions</b>		
Gage Height	2,535mm (99.8")	3,043mm (119.8")
Gage Width	1,396mm (55")	
Gage Depth	1,720mm (67.7")	
Gage Weight	3,890 kg (8,575 lb)	4,488 kg (9,895 lb)

## Parameters Supported

• Center Deviation (hourglass/barrel)	• Eccentricity	• Lobe Angle	• Runout (axial, radial)
• Coaxiality	• Flatness	• Lobe Velocity	• Straightness
• Concentricity	• FFT Chatter	• Parallelism	• Stroke
• Cylindricity	• Index Angle	• Perpendicularity	• Taper
• Diameter (LSC, 2-Point Max/Min)	• Length	• Profile	• Throw
	• Lobing	• Radius	
	• Lobe Lift	• Roundness	
		(LSC,MIC,MCC,MZC)	

## 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. Regular and after hours email and phone support is available 8am-11pm EST.

<sup>i</sup> Includes spindle runout, follower straightness and follower encoder accuracy

