

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

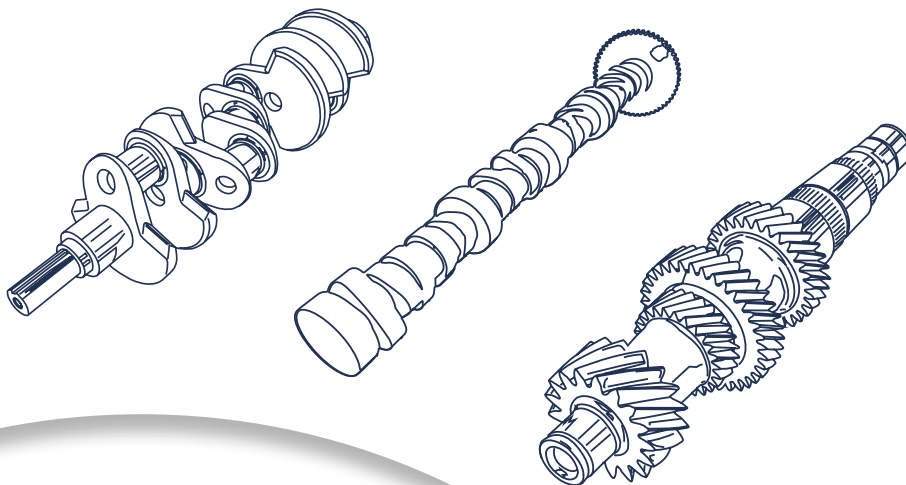
Benefits

- 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

Accuracy Specifications

Radial Resolution	0.016 μm
System Radial Accuracy ⁱ	$\pm 0.5 \mu\text{m}$
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°
Spindle Total Runout	< 0.1 μm

General Specifications

Part Length Max.	1100-GX 1 meter (39.37") / 1100-GX 1.5 meter (59.06")
Part Weight Max.	340 kgs (750 lbs)
Swing Diameter	230mm (9")
Carriage Speed	2286mm/min (90"/min)
Rotational Speed Max.	30 rpm

Base Gage Dimensions

Gage Height	2535mm (99.8") – 3043mm (119.8")
Gage Width	1396mm (55")
Gage Depth	1720mm (67.7")
Gage Weight	1100-GX 1 meter 4,264 kg (9,400 lbs) / 1100-GX 1.5 meter 4,853 kg (10,700 lbs)

Parameters Supported

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

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.

ⁱ Includes spindle runout, follower straightness and follower encoder accuracy

