

## C-K ENGINEERING, INC.

Providing advanced internal engine design and measurement concepts

### AUTOMATIC PROFILE GAGE Precision Measurement of Ring Face Profile



The Automatic Profile Gage is designed to accurately and precisely measure the face profiles of barrel-faced and taper-faced piston rings and sealing rings used in automotive and industrial applications. Designed for both production and inspection applications, the Automatic Profile Gage can measure up to ten rings simultaneously – with just one setup.

#### Features:

- Simple loading and unloading of rings to be measured
- Positive clamping of rings to eliminate distortion during measurement
- Operator-selected standard ring sizes; custom sizes can be accommodated
- English or Metric measurements
- Advanced electronic control of gage probe movement across ring face
- Electronic height probe accurate to 0.00008 inch
- Horizontal position reported with an accuracy of 0.00004 inch
- Typical Gage R&R of 20%
- Simple operation requires very little operator training
- Built-in modem allows data transfer to central data collection point
- Custom software designed to simplify measurement and reporting of results
- Results can be easily printed as tables or profile graphs

The Automatic Profile Gage is just one of a series of advanced gages developed to measure ring geometry and forces. Please contact us at C-K Engineering to discuss your gaging requirements.

#### R&R Gage Capability

Ring Face Profile	Ring Thickness	Expected Gage Capability
Taper	1.2mm to 2.5mm	10'
Barrel	1.2mm to 2.5mm	.002mm
	3.0mm to 4.0mm	.003mm

For additional information on this and other gage designs, please contact us at:

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