

Metrology Laboratory

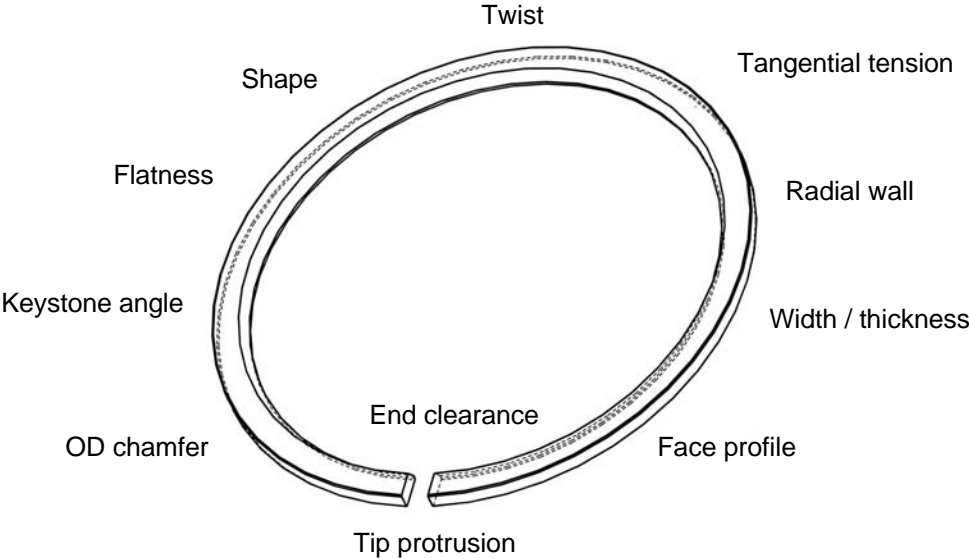
Specialized Piston & Ring Measurement Capability

C-K Engineering offers timely, economical:

- Pre-/post-test inspection of specific characteristics of pistons and rings
- Specialized measurement of compression and oil rings

Data output formats available are:

- Spreadsheet tabulation
- Stripchart - profile



Tangential Tension Gage - LT



Keystone Width/Angle Gage



Flatness Gage

Specialized Gages



Digital Light Gage

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

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Specialized Piston & Ring Measurement Capability

Compression & oil ring measurements:

- Width
- Wall
- Face profile
- Contact pattern
- Side angle
- Napier
- Side finish
- End clearance
- Chamfer
- Free gap
- Light
- Tension
- Twist
- Flatness
- Expander dimensions
- Microstructure
- Microhardness

Measurements can be used for:

- Part to print validation
- Pre-/post-test documentation
- Modeling analysis input

Piston measurements:

- Crown & land diameters – parallel and perpendicular to pin
- Land width
- Groove chamfer
- Groove root diameter
- Groove width
- Groove depth
- Groove flatness
- Groove tilt
- Accumulator groove location & dimensions
- Skirt profile
- Pin bore & location
- Thermal history
- Microstructure
- Microhardness

Measurements can be used for:

- Part to print validation
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- Modeling analysis input