

TANGENTIAL TENSION GAGE - LT

Precision Digital Measurement of Piston Ring Tension



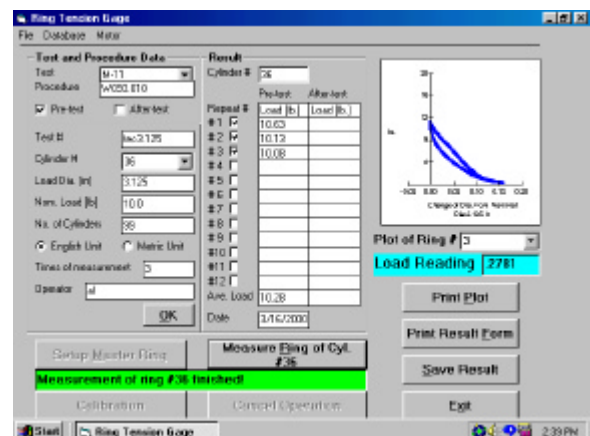
- New economical offering achieved by eliminating the cabinet and industrial computer
- Functionality and accuracy of the original unit are maintained
- Computer/monitor supplied:
 - ≥ 400 MHz Pentium III
 - ≥ 64 Mb RAM
 - ≥ 4.1 Gb hard drive
 - 15" monitor

Features:

- Unique design eliminates effect of friction from the measured tension
- Data developed provides insight into tab loading and side sealing of expander
- Automatic loading and unloading of the ring via computer-controlled stepper motor
- Continuous loading and unloading of the ring via computer-controlled stepper motor
- Automatic printout of load and ability to download to a central data collection system

Engine performance characteristics affected by ring tangential tension include:

- Oil consumption
- Blowby
- Horsepower output (friction loss)



The C-K Engineering Precision Digital Tangential Tension Gage has been designed and developed with the objectives of:

- Providing a gage which is rugged and capable of operation in a typical laboratory or manufacturing plant atmosphere
- Providing a gage which is simple to operate
- Providing a gage with significant improvement in measuring precision
- Providing a gage which completes a measurement and provides a documented record of the output in less than 40 seconds

Operation of Unit:

- Adjust length of .004" thick by .5" wide band through use of the jog program to accept master plug
- Insert base information or call up from database
- Click on "OK"; then "Setup Master"
- Insert dummy groove with ring to be measured
- Click on "Measure Ring"

Capabilities of Unit:

- Ring diameters 2.000" through 6.000" (special designs available for larger or smaller rings)
- Tension range capability:
 - Standard unit – 2-50 lb
 - Special unit can be supplied for higher or lower values
- Acceptable ring types:
 - Compression rings
 - 2-piece or 3-piece oil rings

Tooling Required per Diameter:

- Master plug with outside diameter same as bore diameter
- Dummy groove with land diameters smaller than cylinder bore diameter

Utilities Requirements:

- 110 v, 3 amp, 60 cycle electrical supply
 - Other voltage/frequency units can be supplied for special requirements

Size and Weight:

- Size: 14" H x 35" W x 17"D
- Weight: Approx. 100 lb

Warranty:

- 1 year parts and labor

For additional information on this and other gage designs, please contact us at:
C-K Engineering, Inc.; 116 Holloway Road; Ballwin, MO 63011
Phone: 636/394-3331; Fax: 636/394-5844; Email: ckenginc@aol.com; Website: www.c-kengineering.com