

# Electronic Piston Ring Tester

- ◆ Useful for checking the tangential tension of Piston Ring.
- ◆ Direct Reading of Tangential Load.
- ◆ Fitted With Versatile Mikrotech Force Indicator (MFI)



## Electronic Piston Ring Tester Features :

1. High Sensitivity.
2. Multiple Units of Measurement Kg., N., gm and Lb.
3. Dual point Alarms, Pass / Fail function.
4. Visual Red / Green LED's for setting the higher and lower testing limits.
5. User Configured Auto Power Off.
6. On / Off Switch.

## Mikrotech Force Indicator (MFI)

The Piston Ring Tester is fitted with Mikrotech Force Indicator (MFI). The MFI is most versatile force indicating instrument, having multiple units of measurement as well various functions viz. Dual Point Alarm, Pass / Fail LED Display. The Indicator is compatible to computer. The Electronic Piston Ring Tester is available in the following measuring ranges.

Measuring Range : 0- 10kg. (L.C.: 0.002 Kgs.)  
0- 25kg. (L.C.: 0.005 Kgs.)

Whether an Aeroplane in the sky or the Moped running on street, it is the Piston Ring Tension that decides the performance of an Internal Combustion Engine. A rigidly tested quality proven piston ring comes only out of assurance given by Electronic Piston Ring Tester, Model LTK-E1 --- LTK-E4.

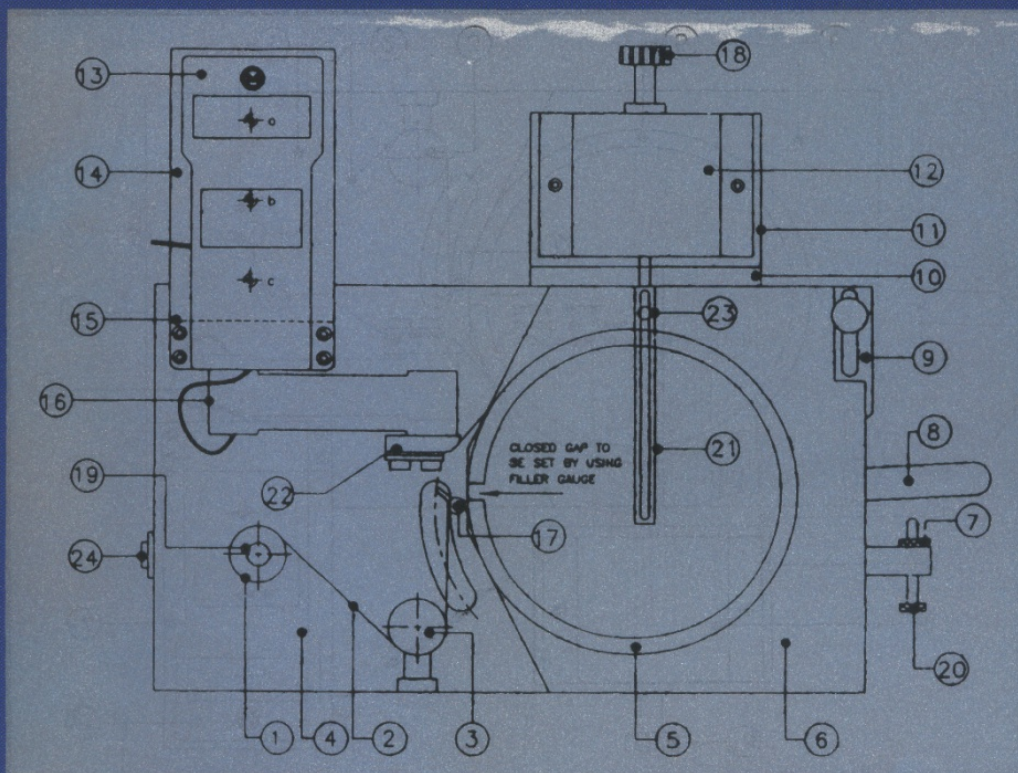
The tester is useful for checking the tangential tension of piston Ring. The Piston Ring is held along the circumference by the steel belt tangentially at the specified gap. The tangential tension in the belt is carried over to the Force Indicator (MFI) through high precision Load cell and is indicated on the display of MFI.

The Electronic Piston Ring Tester is an inevitable Instrument for the Quality Control Laboratories of Automobile Manufacturers, Inspection Laboratories, Piston Ring Manufacturers, Research and Development Departments of all Diesel as well as petrol engine Manufacturers, Aeronautical Manufacturers, Technical Institutes, Engineering Colleges, Defense Establishments, Railways, Transport Undertakings etc.

**KUDALE  
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## Electronic Piston Ring Tester

### Part - List

01 Magazine	13 Mikrotech Force Indicator (MFI)
02 Belt	14 MFI Mounting Plate
03 Pulley	15 Load Cell Mounting Block
04 Base Plate	16 Load Cell
05 Piston Ring	17 Clamp for Belt
06 Top Plate	18 Vibrator Adjusting Knob
07 Check Nut	19 Nut For Magazine
08 Lever	20 Lower Stopper set screw
09 Upper Stopper	21 Sliding Strip
10 Vibrator Base Plate	22 Belt Rest
11 Vibrator Angle Plate	23 Contact Point
12 Vibrator	24 Vibrator Switch

### Vibratory System for Piston Ring Tester

The Vibratory system is an Optional Accessory for Piston Ring Tester and the same is used, when Spring loaded Oil Ring / Expander is tested for tension. This type of ring is generally inspected by applying Vibrator for few seconds, in order to get the test results with greater accuracy.

### Technical Specifications

MODEL LTK-E1 Piston Ring Nominal Diameter : 25 to 160 mm  
 MODEL LTK-E2 Piston Ring Nominal Diameter : 40 to 250 mm  
 MODEL LTK-E3 Piston Ring Nominal Diameter : 100 to 400 mm  
 MODEL LTK-E4 Piston Ring Nominal Diameter : 250 to 750 mm



Kudale Instruments  
(P) Ltd.



Mikrotech



Mikrotech Sales  
and Service



Kudale Calibration  
Laboratory (P) Ltd.

In Mikrotech Sales and Service, we undertake the repairing and calibration of measuring instruments and testing equipments.

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\* Product development is a continuous process. Hence the data indicated in this folder is subject to change without notice.