

Strut Bearing orbital durability test rig

This setup is designed to conduct orbital durability of strut bearing. For efficient constant loading Solenoid NLV valve circuit is provided, while it can bear loads up to 400N. It consists Air regulator for precise operation.



➤ Features:

- The total test set is mounted on a strong and sturdy fabricated frame structure made from M.S square tubes and plates.
 - a. Overall size: 0.6m x 0.6m x 1.3m height.
- Loading mechanism comprises of-
 - a. Pneumatic cylinder 50mm Ø x 100mm stroke capable of generating 500N with air pressure.
 - b. Precision air pressure regulator and solenoid valve NRV valve circuit for constant loading of test component.

- c. Other pneumatic accessories such as FRL unit, piping and fittings.
 - Oscillating mechanism comprises of-
 - a. 0.5 HP, 60 RPM output speed geared motor.
 - b. Timing belt drive for driving the screw.
 - c. Bearing block with thrust bearing and oscillating of shaft.
 - d. Test bearing mounting fixture.
 - e. Adjustable eccentric mechanism fitted with connecting rod and pivoted plate fitted on vertical shaft.
 - f. For adjusting the oscillating angle, the eccentricity is to be changed manually.
 - Electrical control panel comprises of-
 - a. M.S panel duly powder coated.
 - b. Digital speed indicator - Range: 0 – 60 RPM.
 - c. Digital cycle counter - Range: 6 digits.
 - d. Variable frequency drives 0.5HP.
 - Other electrical accessories such as contactors, MCB, Push buttons, indicator lamps etc.

➤ **Product Parameters:**

Overall size	0.8meter x 0.5meter x 0.8meter height
Electrical Power Supply	415V, 50Hz,2Kw
Capacity	500 Kg
Cubic Feet per Minute (CFM)	2