



These Dynamometers are suitable for testing of Rotating machines AC or DC, basically these are also used as indirect method of loading of any machine.

The construction features are basically a DC Shunt Generator constructed in such a way that it is able to indicate the torque produced at the rated rpm & current for the machine coupled to it.

The prime mover becomes the motor under test & the dynamometer works as generator & its gets loaded by dissipating voltage generated in resistive load bank.

This Model is the Industrial/Educational model suitable for demonstrating to students the complete know of the Basics, Components, Mechanicals, Loading methods, Torque evaluation, Loading scheme, Wear & Tear & Maintenance of these motors packaged in small rating.

Students can make connections of their own with the help of the terminations provided for study of features viz Coupling the motor to be tested, Starting methods, Speed-Torque, Excitation control of Dynamometer, Power dissipation of Generator, Torque measurement.

**Technical Specs :**

Power ratings available : 1KW / 2KW / 5KW / 10KW

Voltage Input: 230V DC

RPM: 1440 / 2880 RPM

Single / Double shaft extension, SPDP, IP23, IC01, B3, Class-B, S1,

Solid yoke

**List Of Experiments :**

- 1) Load testing of AC Motor
- 2) Load testing of DC Motor
- 3) Torque calculation at various rpm
- 4) Speed-Torque Analysis
- 5) Voltage-Speed Analysis
- 6) Speed reversal
- 7) Efficiency Analysis
- 8) Blocked rotor test
- 9) Cold Resistance & Hot Resistance
- 10) Motor Operation parameters
- 11) Basic Overhauling Know how

Note: Specifications are subject to change.

**Tesca Technologies Pvt. Ltd.**

IT-2013, Ramchandrapura Industrial Area, Sitapura Extension,  
Near Bombay Hospital, Vidhani Circle, Jaipur-302022, Rajasthan, India,  
Tel: +91-141-2771791 / 2771792; Email: info@tesca.in, tesca.technologies@gmail.com  
Website: www.tesca.in