



DC Machines have been the running horse for the Industry since 100 Years, Compound motors are one of these types.

This Model is the Industrial/Educational model suitable for demonstrating to students the complete know of the Basics, Components, Starting methods, 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 Starting methods, Speed control, Speed-Torque, Effects of Field voltage, Effects of Armature voltage, Over compound, Under compound, Motor/Generator operation.

**Technical Specs :**

Power ratings available : 350W / 750W / 1KW / 2 KW / 3KW / 5KW

Voltage Input: 220V DC

Excitation : 220V DC

Armature : 220V DC

RPM: 1500 / 3000 RPM

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

Solid yoke

**List Of Experiments**

- 1) Behavior of Resistance Cut off method of starting
- 2) Behavior of Voltage control method of starting
- 3) Speed Control & Over speed operations
- 4) Load test & No load test of machine
- 5) Speed-Torque Analysis
- 6) Voltage-Speed Analysis
- 7) Efficiency Analysis
- 8) Over Compound & Under Compound Effects
- 9) Analysis of Commutation
- 10) Cold Resistance & Hot Resistance
- 11) Motor Operation parameters
- 12) Generator Operation parameters
- 13) Basic Overhauling Know how

Note: Specifications are subject to change.

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