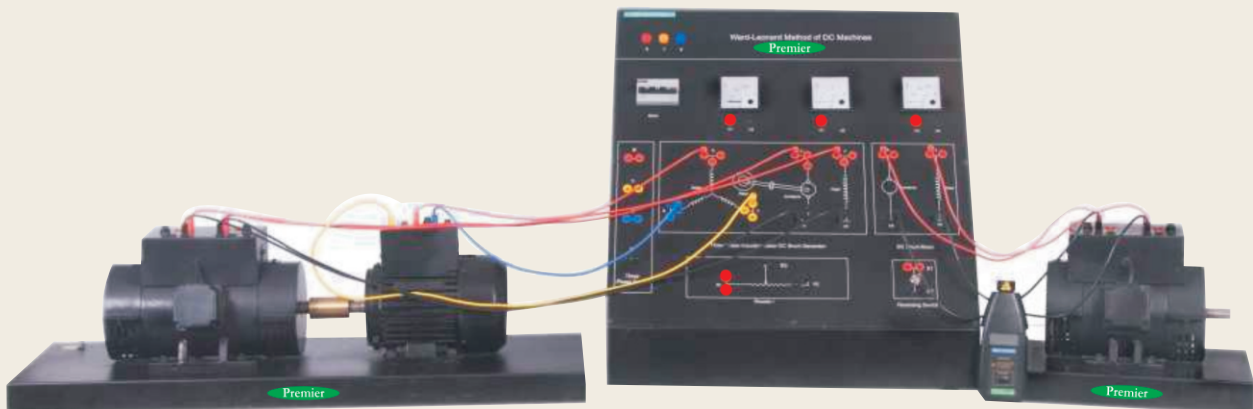


Ward Leonard Method of DC Machine

Premier Ward Leonard Method of DC Machine is an elite training system for Electrical Laboratories. It helps you to get fully acquainted with the basic concepts and functioning of a DC machines. It demonstrates Ward-Leonard Method of DC Machine through which one can not only operate but also control the speed of DC Machine in either direction without using DC supply. Separate terminals of Armature & Field windings are brought out on terminal box fitted on top of Motor to connect them separately to the panel, to perform experiment correspondingly. Reverse connecting Switch is provided to control the speed of DC Motor in either direction. The trainer thus provides explicit understanding of the subject. All protection devices are in built so there is no chance of fault or danger to user.



Technical Specifications

Input mains Supply : Three Phase, 415V, $\pm 10\%$, 50Hz

Machines Specification (2 Nos.)

Both the Machines are flexibly coupled and mounted on a M.S. channel base acts as a Motor Generator set.

AC -03 Phase Squirrel Cage Induction Motor acts as a Prime Mover

Rating : 1 HP
 Voltage Rating : 415 V
 RPM : 1440 (No Load)
 Insulation : Class 'B'

DC Shunt Motor

Rating : 1 HP
 Voltage Rating : 200 V
 RPM : 1500 (No Load)
 Insulation : Class 'B'

Extra D.C. Shunt Motor 200 V for which the speed can be Controlled using Motor Generator set.

Rating : 1/2 HP
 Voltage Rating : 200 V
 RPM : 1500 (No Load)
 Insulation : Class 'B'

Meters used

Voltmeter (MC) : 1 Nos.
 Ammeter (MC) : 2 Nos.
 Dimensions (mm) : W 450 X D 600 X H 450
 Weight : Panel : 19.50 Kg. Motor : 60 Kg.

Features

- ▶ Stand alone operation
- ▶ Mechanical Coupling Arrangement
- ▶ Exclusive and rugged designed panel
- ▶ Standard Safety Terminals
- ▶ Designed by considering all the safety precautions
- ▶ High quality meters
- ▶ Diagrammatic representation for the ease of connections

Scope of Learning

- To study the speed control of Separately Excited DC Shunt Motor in either direction by Ward Leonard Method