



46587 Ward Leonard Method of DC Machine is an elite training system for Electrical Laboratories. The product helps you to get fully acquainted with the basic concepts and functioning of a DC machines.

The product demonstrates the Ward-Leonard Method of DC Machine through which user can not only operate but also control the speed of DC Machine in either direction without using DC supply.

Separate terminals of Armature and Field windings are brought out on a terminal box fitted on top of the Motor so that one can connect them separately to the panel and can 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 almost no chance of fault or danger to user.

Scope of Learning

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

Features

- Stand alone operation
- Mechanical Coupling Arrangement
- Exclusive and rugged designed panel
- High quality meters
- Standard BS-10 safety terminals
- Designed by considering all the safety precautions
- Diagrammatic representation for the ease of connections

Note: Specifications are subject to change.

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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 Three 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 : Control panel : 19.50 Kg.
Motor : 60 Kg.

Optional Item : Three Phase Variac