



46603 Hopkinson's Test of DC Machine is an adaptable training system used for Electrical Laboratory. It is designed to demonstrate the fundamental concepts and also facilitates easy learning about the various losses of DC Machine.

Two similar machines are required to carry out Hopkinson's Test. Electrically these two machines are connected in parallel to determine the Efficiency of DC Machine by separately calculating the losses.

Separate terminals of Armature and Field windings are brought out on a terminal box fitted on top of the motor. The training system includes terminals for Rheostat and Starters so that these devices can be connected externally to the panel.

46603 has been designed in such an easy way that users can observe the voltages and current of windings of both the motors. All protection devices are in built negligible chance of fault or danger.

### Features

- Exclusive and Compact Design
- Electrical Loading Arrangement
- Flexible Shaft Coupling Arrangement
- Provided with Digital Tachometer
- Machine with Class "B" Insulation
- Heavy Duty Base/Channel
- Terminals provided to use the optional externally
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Learning material CD
- 2 Year Warranty

### Scope of Learning

- Study and obtain the losses separately and correspondingly. Determine the efficiency of a DC Shunt Machine by Hopkinson's test

### Technical Specifications

DC Power Supply	
Input mains	: 230V AC $\pm$ 10%, 50Hz
Fixed	: 200V
Variable	: 0-200V
DC Machines Specification (2 Nos.)	
Both the Machines are flexibly coupled and mounted on a M.S. channel Base acts as a Motor Generator set	
Type	: DC Shunt
Rating	: 1HP
	(Also available with 2HP & 3HP)
Voltage Rating	: 200V
RPM	: 1500 (no load)
Insulation	: Class 'B'
Meters used	
Voltmeter (MC)	: 300V
Ammeter (MC)	: 1A, 5A (2 nos. each)
Dimensions (mm)	: W 600 x D 450 x H 600 (Control Panel)
	: W 180 x D 900 x H 310 (MG set)
Weight	: 17kg (approx.) (Control Panel)
	: 53kg (approx.) (MG set)

#### Optional

DC Power Supply  
Rheostat 5A, 110 ohms (2 Nos.)  
(For machine rated upto 2HP/ 3HP respectively)

Note: Specifications are subject to change.

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