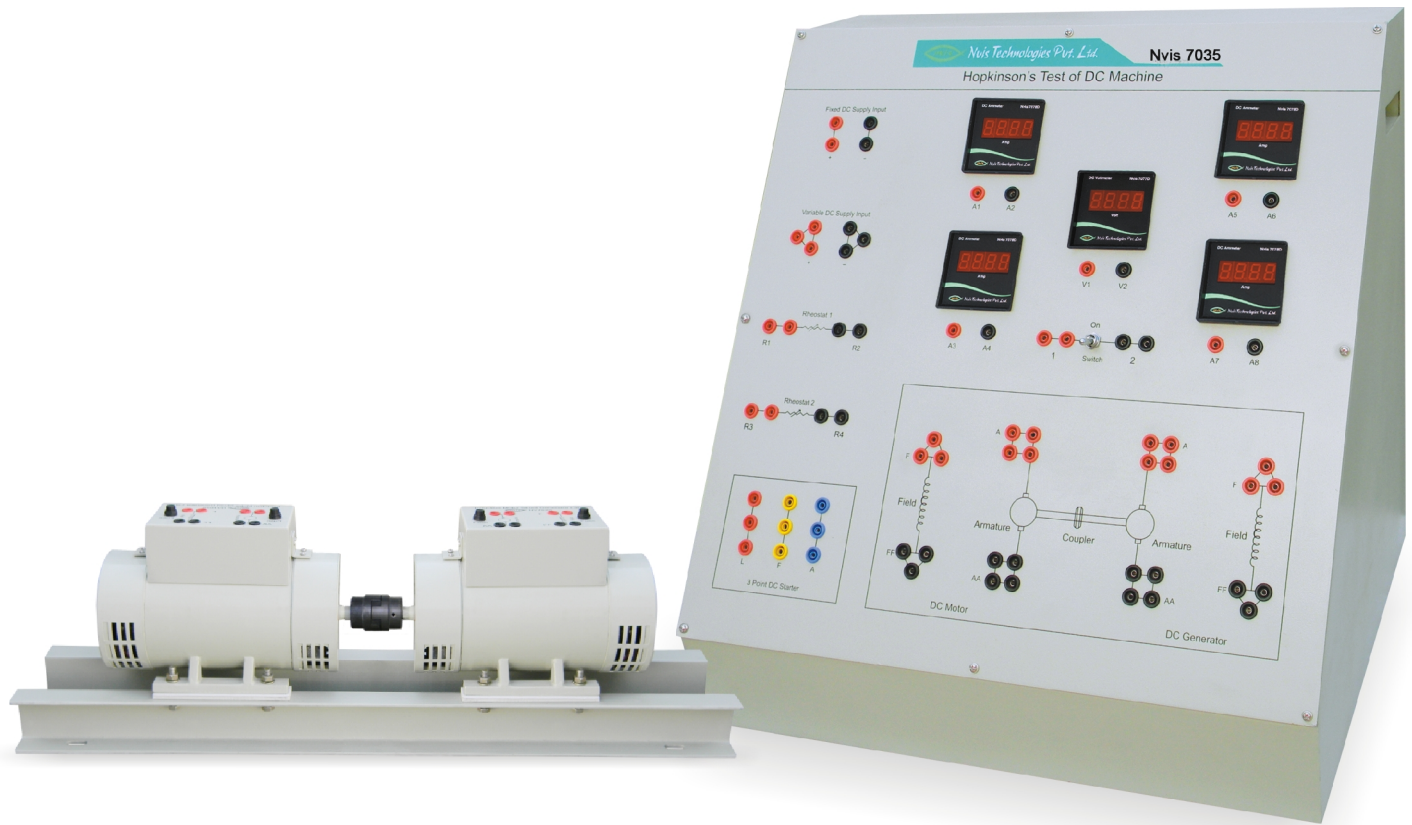




Hopkinson's Test of DC Machine

Nvis 7035



Nvis 7035 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.

Nvis 7035 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

- Electrical Loading Arrangement
- Flexible Shaft Coupling Arrangement
- Control board consist of high grade FRP material to provide utmost safety to the users
- 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
- Product Tutorial (CD)



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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

Machine Specifications : Both the machines are flexibly coupled and mounted on a "C" Channel base

DC Machines (2 Nos.)

Type	:	Shunt
Rating	:	1 HP (Also available with 2HP and 3HP)
Voltage Rating	:	220V \pm 10%
Speed	:	1500 RPM \pm 7.5%
Insulation	:	Class 'B'

Digital Meters used

DC Voltmeter	:	300V
DC Ammeter	:	5A (4 nos.)

Digital Tachometer : 20,000 RPM

Optional

- DC Power Supply Nvis 725 or Nvis 725A/Nvis 725B (for machines rated upto 2HP/3HP respectively)
- Rheostat 5A, 110 ohms (2 nos.)