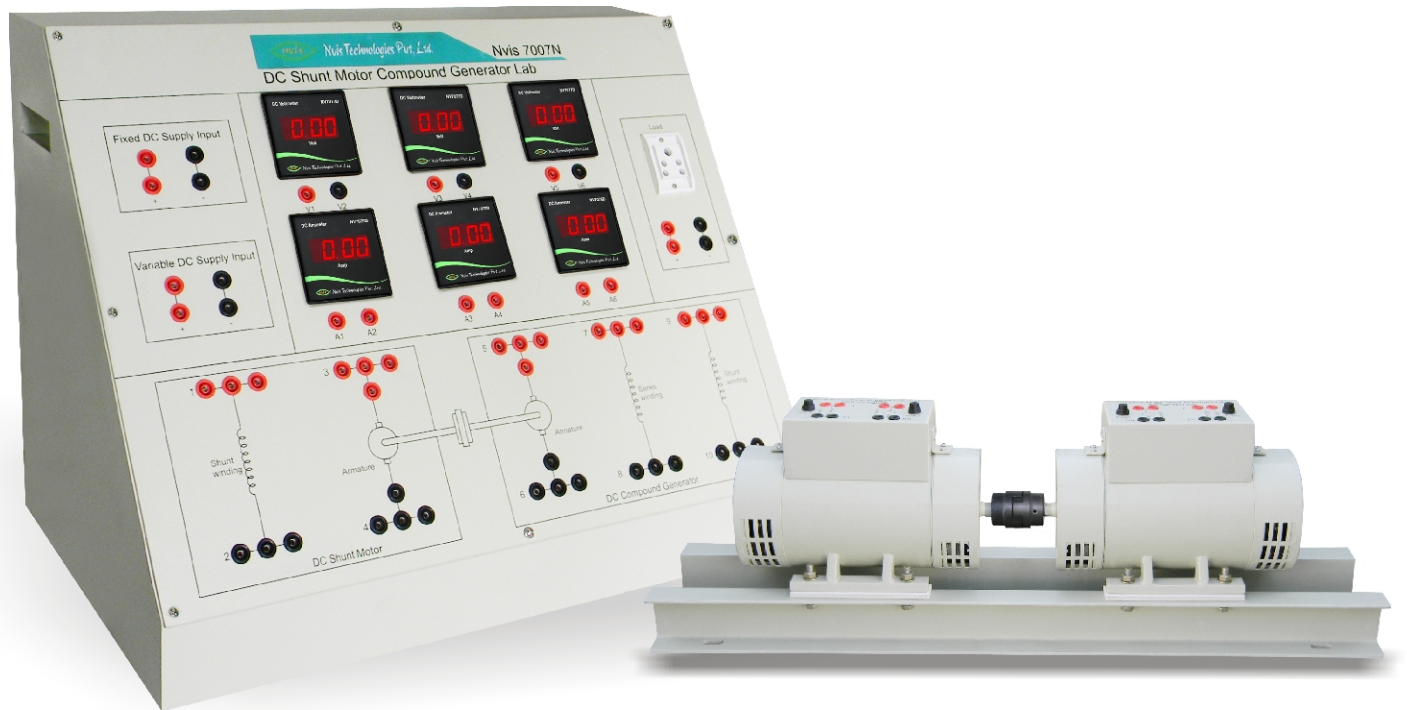




DC Shunt Motor Compound Generator Lab

Nvis 7007N



Nvis 7007N DC Shunt Motor Compound Generator Lab is a definitive system for the Electrical Machines Laboratories that provides comprehensive learning of a DC Compound Generator under different loading conditions. The DC Compound Machine is a combination of a Series and Shunt Wound Machine and hence allows the same to have the torque characteristics similar to Series Machine and the speed characteristics resemble to Shunt Machine.

Nvis 7007N provides complete learning contents to demonstrate various experiments like working operation of DC Compound Generator, analyzing Speed-Current, Current-Voltage and Voltage-Speed characteristics etc. There is a digital panel meters to obtain precise results. Diagrammatic representations are provided on the control setup so that users can make connections by their own. Nvis 7007N also includes terminals for three point starter and rheostats so to make these connections externally to the control setup. All the protective schemes are being implemented to avoid fault or danger and hence product will assist user to enhance their practical knowledge with safety.

Features

- Electrical Loading Arrangement
- Flexible Shaft Coupling Arrangement
- Provided with Digital Tachometer
- Machine with Class "B" Insulation
- Good quality digital panel meters
- Heavy Duty Base/Channel
- Designed by considering all the safety measures
- Diagrammatic representation for the ease of connections
- Exclusive and Compact Design
- Online product tutorial



Scope of Learning

Study and verify Load Characteristics of:

- Long Shunt Commutatively Compound Generator
- Short Shunt Commutatively Compound Generator
- Long Shunt Differentially Compound Generator
- Short Shunt Differentially Compound Generator

Technical Specifications

Operating Voltage

Fixed DC	: 200V
Variable DC	: 0-200V

Machine Specifications

Both the Machines are flexibly coupled and mounted on a single "C" channel base

DC Motor (acts as prime mover)

Type	: Shunt
Power Rating	: 1HP
Voltage Rating	: 200V, $\pm 10\%$
Speed	: 1500 rpm
Insulation Class	: "B"

DC Machine (acts as Generator)

Type	: Compound
Power Rating	: 1HP (also available with 2HP, 3HP and 5HP)
Speed	: 1500 rpm
Current Rating	: 4.1A
Insulation Class	: "B"

Digital Meters used

DC Voltmeter	: 300V (2 Nos.)
DC Ammeter	: 5A (3 Nos.), 1A

Dimensions (mm)

Control Setup	: W 600 x D 450 x H 600
MG Set	: W 180 x D 900 x H 310

Weight

Control Setup	: 17kg (approximate)
MG Set	: 53kg (approximate)

Optionals

- DC Power Supply Nvis 725/Nvis 725A/Nvis 725B (for Machines rated upto 2HP/3HP/5HP respectively)
- Resistive Load Nvis 726/Nvis 7067 (for Machines rated upto 1HP/ 3HP respectively)

