



**Nvis 7031 Compound Motor Compound Generator Lab** is a useful training system for Electrical laboratories that provides comprehensive learning of DC Compound Generator. It can be employed for performing various experiments like Generator Working, Operating Characteristics, Terminal Voltage and Load Current (V-I) Characteristics, etc. Students can make connections easily.

### Features

- 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
- Equipped with supply indication lamps
- Designed by considering all the safety standards
- Diagrammatic representation for the ease of connections
- Product Tutorial (CD)



### Scope of Learning

#### Study and verify the:

- Load Characteristics of Long Shunt Cumulatively Compound Generator
- Load Characteristics of Short Shunt Cumulatively Compound Generator
- Load Characteristics of Long Shunt Differentially Compound Generator
- Load Characteristics of Short Shunt Differentially Compound Generator

### Technical Specifications

#### Machines Specification

Both the Machines are flexibly coupled and Mounted on a 'C' channel Base

#### DC Machine (acts as prime mover)

Type	:	Compound
Rating	:	1HP
Voltage Rating	:	220V $\pm$ 10%
Speed	:	1500 RPM $\pm$ 7.5%
Insulation	:	Class 'B'

#### DC Machine (acts as generator)

Type	:	Compound
Rating	:	1HP (Also available with 2HP and 3HP)
Speed	:	1500 RPM $\pm$ 7.5%
Insulation	:	Class 'B'

#### Digital Meters used

DC Voltmeter	:	300V (3 nos.)
DC Ammeter	:	5A (3 nos.)
Digital Tachometer	:	20,000 RPM

#### Optional

- DC Power Supply "Nvis 725/Nvis 725A" (for machines rated upto 2HP/3HP respectively)
- Resistive Load "Nvis 726/Nvis 7067" (for machines rated upto 1HP/ 3HP respectively)
- 4 Point Starter