



**DC Motor Training System is an important and exclusively designed product for electrical laboratories. DC Machines are an important part of Electrical Engineering Syllabus. It provides complete learning contents to enhance practical knowledge and explains students the fundamental concepts of DC Machine.**

**It can aptly be employed for performing various exercises like Motor Starting, no load and load Characteristics etc. Thus the product makes the subject completely understandable.**

#### Features:

- Machine with standard mechanical loading structure
- Machine with standard tabular spring balance with zero adjustment facility
- Machine winding consist of copper for long term service
- Machine Conforms to all leading industrial standards with Class "F" Insulation
- Provided with non contact/contact type Digital speed measuring equipment
- Inbuilt DC Power Drive of suitable rating
- Heavy Duty Base/Channel
- Control panel with digital microcontroller based measuring devices
- Front board consist of MS Material with power coating / epoxy paint to avoid any rust
- Provided with suitable protection such as fuses, MCB, etc wherever requires
- Specially designed BS10 Terminals and patch cords for electrical safety
- Lamp indication for single phase supply
- Screen printed diagrammatic representation for the ease of connections.
- Product provide with protection fuses, colored patch cords, single phase cords, learning manual contents having theory, operating procedure with connecting diagram, FAQ, Glossary, etc

*Note: Specifications are subject to change, Photos shown above are Indicative, Actual Product can Vary.*



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 India Sales: +91-9588842361



IT-2013, Ramchandrapura Industrial Area,  
 Sitapura Extension, Jaipur-302022, India.



info@tesca.in  
 www.tescaglobal.com

**Technical Specifications:**

- **Operation Voltage of Control Panel** : 220VAC  $\pm$  10%, 50Hz
- **DC Machine**
- Type : Shunt, Series & Compound configured
- Power Rating : 1HP
- Voltage Rating : 220VDC  $\pm$  10%
- Field Excitation : 200VDC  $\pm$  10%
- Speed : 1500 rpm  $\pm$  10%
- Insulation : Class 'F'
- Winding : Copper
- Shaft Extension : Single Sided
- Loading arrangement : Mechanical
- Brake Drum/Pulley : Yes
- Spring Balance : 2Nos.
- Loading Nut & Bolts : Yes
- Terminals box : Powder coated/epoxy paint with terminals
- Machine Base : MS "C" Channel with suitable interconnection

**Digital Meters used**

- DC Voltmeter : 300V
- DC Ammeter : 20A (2 nos)

**DC Power Supply**

- Output Fixed voltage : 200VDC  $\pm$  10%
- Output Variable Voltage : 0 - 240VDC  $\pm$  10%
- Current Rating : Based on Power Rating of Machine

**Digital Tachometer**

- Range : 19,999 rpm
- Type : Contact / Non-contact

**Protection Devices**

- MCB (DP) : 1No
- Glass Fuse : 2Nos.
- Grounding Nut : Available at the rear side of the panel

**Scope of Learning**

- Running and reversing phenomenon of DC Motor
- Study of no load characteristic of DC Motor at different configurations
- Study of Load Characteristic of DC Motor at different configurations

**Supporting Accessories supplied with Control Setup**

- Patch Cords of different color scheme
- Single Phase Mains Cord
- Extra Glass Fuses
- Digital Tachometer
- Learning Material Manual (softcopy)

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