

Electrical Machine Trainer (Complete Setup)



Product Categories: [Electronics](#), [Engineering Equipment](#), [Experimental Setup For Electrical Lab](#), [Experimental Setup For Electrical Lab](#)

Product Page:

<https://www.labappara.com/product/electrical-machine-trainer-complete-setup/>

Product Description

Electrical Machine Trainer (Complete Setup)

19 Types of Modules & Graphic Boards

25 Types of Electrical Machine Assembly

Experimental Board Rack & Storage Trolley

Experimental Board Rack (BR-6)

Installation Capacity : 8 ea

Dimension : 1480 X 740 X 320 Mm (W x H x D)

Board Storage Cabinet (BS-20)

Storage Capacity : 13

Experimental Modules List :

Field Rheostat : 1 ea

Starting Rheostat : 1 ea

AC/DC Machine Load Unit : 1 ea

Three Phase (Y- Δ) Load Unit : 1 ea

Variable R, L, C Load Unit : 1 ea

AC/DC Power Supply : 1 ea

AC Volt / Ampere Meter : 1 ea

DC Volt / Ampere Meter : 1 ea

DC Milli ammeter : 1 ea

AC/DC Machine Field Frame : 2 ea

Auto Driving Unit : 1 ea

Pole Changing Unit : 1 ea

Graphic Board List :

DC Machine Board : 1 ea

Three Phase Machine Board : 1 ea

Rotary Converter Board : 1 ea

Compound Motor Board : 1 ea

Speed Control of Induction Motor Board : 1 ea

Repulsion Motor Board : 1 ea

Split Phase Motor Board : 1 ea

LIST OF MACHINE PARTS :

3 Pole Rotor & Other Rotors : 6 ea

Wide Magnetic Pole Pieces : 15 ea

Shunt Field & Various Field Coil : 10 ea

Permanent Magnet (Round Type) : 2 ea

Brush & Brush Holder Set : 3 ea

LIST OF EXPERIMENTS :

BASIC EXPERIMENTS ON GENERATOR :

Principle of the Generator

Single-phase AC Generator using permanent magnet

DC Generator using permanent magnet

Separately excited DC shunt wound generator by field coil

Self-excited DC shunt wound generator by field coil

Generator's no-load saturation

Load characteristics of separately excited DC shunt wound generator

Load characteristics of AC generator

Principle of 3 phase AC generator

Revolving field, 3 phase AC generator

Principle of rotary converter

BASIC EXPERIMENTS ON MOTOR :

Principle of the Motor

DC motor using permanent magnet

DC series wound motor using the field coil

DC shunt wound motor by starter and field resistor

DC compound motor

AC universal motor

Rotary field of 3 phase induction motor

Squirrel cage induction motor

2 step speed control of induction motor

Repulsion motor

Split phase motor by condenser

Polarized motor for Engineering Electronics Workshop Laboratory Instruments