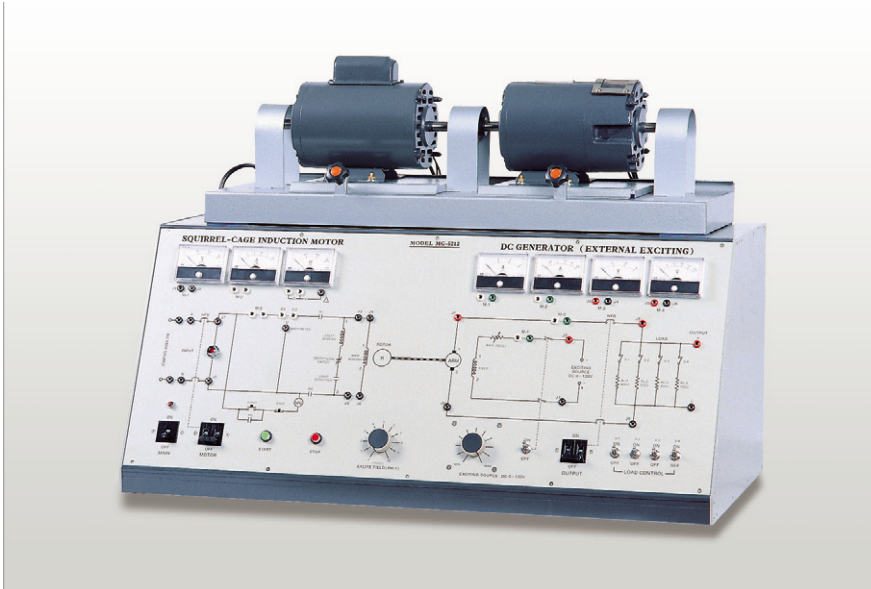


- Electrical Machine

SQUIRREL CAGE INDUCTION MOTOR/ DC GENERATOR

MG-5212

- Starting and load characteristics of squirrel cage induction motor
- DC generator's no load saturation characteristics



> EXPERIMENTS

- Start and load characteristics of squirrel cage induction motor
- Alteration of the rotative directions of squirrel cage Induction Motor
- Slip speed and torque of induction motor
- Induction motor's no-load power factor and load power factor
- Load characteristics of separately excited DC sShunt-wound generator
- Generator's no-load saturation characteristics
- Shunt field and output
- DC shunt-wound generator's loss and efficiency

> SPECIFICATIONS

MOTOR SECTION

- **Winding Type**
 - » Squirrel cage rotor
 - » Split-phase stator
- **Speed** : 1725 RPM
- **Input Voltage** : AC 110V, 60Hz
- **Input Current** : 6.6A
- **Horsepower** : $\frac{1}{3}$ HP
- **Start Capacitor** : 180~220 μ F
- **Indication Meter** : 1-current, 1-voltage, 1-RPM, 1-watt
- **Over Load Trip** : 7A

GENERATOR SECTION

- **Winding Type** : Shunt(separately excited)
- **Speed** : 1725 RPM
- **Output Power** : 120V, 1A
- **Number of Poles** : 4 poles

- **Field Excitation** : Separately excited
- **Shunt Rheostat** : 0~300 Ω , 50W
- **Exciting Power** : DC 0~120V, 1A
- **Indication Meter** : 2-current, 2-voltage
- **Overload Trip** : 2A
- **Load Resistance** : 48 Ω ~480 Ω , 500W

GENERAL CHARACTERISTICS

- **Main Input Voltage** : AC 220V, single phase
- **Rating** : 30 minutes
- **Dimension of System** : 990(W) x 670(H) x 475(D)mm

ACCESSORIES

- **Patch Cords(ϕ 4 Plug)** : 1set
- **AC Power Cord** : 1ea
- **Experimental Manual** : 1ea