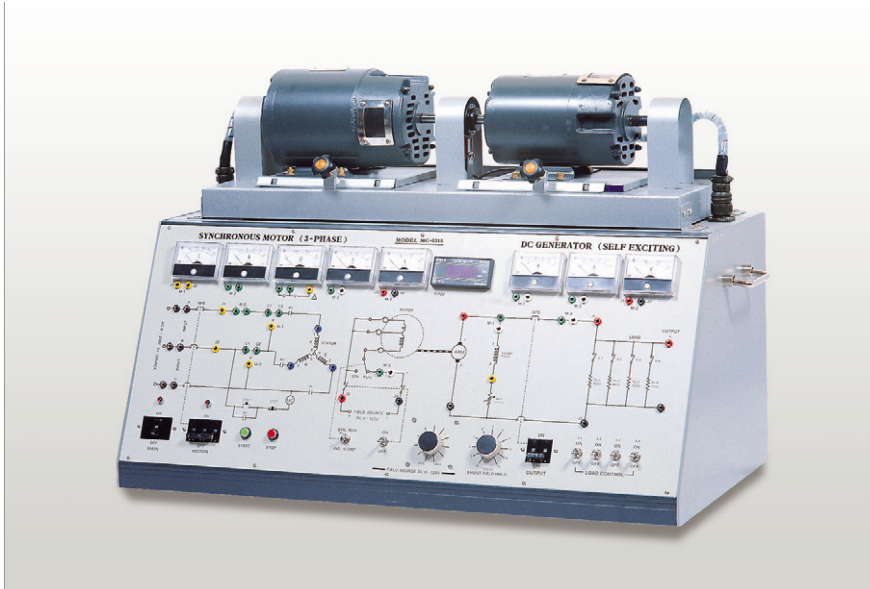


- Electrical Machine

## SYNCHRONOUS MOTOR(3-PHASE)/ DC GENERATOR

# MG-5215

- Starting and load characteristics of synchronous motor
- Load characteristics of self-excited shunt-wound generator



### > EXPERIMENTS

- Start and Sync characteristics of synchronous motor
- V-curve characteristics of synchronous motor
- Synchronous motor's loss and efficiency
- Load characteristics of self-excited shunt-wound generator
- Shunt field and output
- Speed and output characteristics of generator
- Loss and efficiency of DC shunt-wound generator

### > SPECIFICATIONS

#### MOTOR SECTION

- Winding Type : Synchronous Machine
- Speed : 1750 RPM
- Input Voltage : 120/208V, 3-phase 4 Wire
- Frequency : 60Hz
- Number of Poles : 4 poles
- Horsepower :  $\frac{1}{3}$  HP
- Motor Current : 1.7A Approx.
- Indication Meter : 2-voltage, 2-current, 1-RPM(digital), 1-watt
- Overload Trip : 2A

#### GENERATOR SECTION

- Winding Type : Shunt
- Speed : 1800 RPM
- Output Power : 120V, 1A
- Number of Poles : 2 poles
- Field Excitation : Self-excited

- Shunt Rheostat : 0~300 $\Omega$ , 50W
- Indication Meter : 2-current, 2-voltage
- Overload Trip : 2A Approx.
- Load Resistance : 48 $\Omega$ ~480 $\Omega$ , 500W

#### GENERAL CHARACTERISTICS

- Main Input Voltage : AC 220V, 3-phase
- Rating : 30 minutes
- Dimension : 990(W) x 670(H) x 475(D)mm
- Weight : 91kg

#### ACCESSORIES

- Patch Cords( $\emptyset 4$  Plug) : 1set
- AC Power Cord : 1ea
- Reference Manual : 1ea