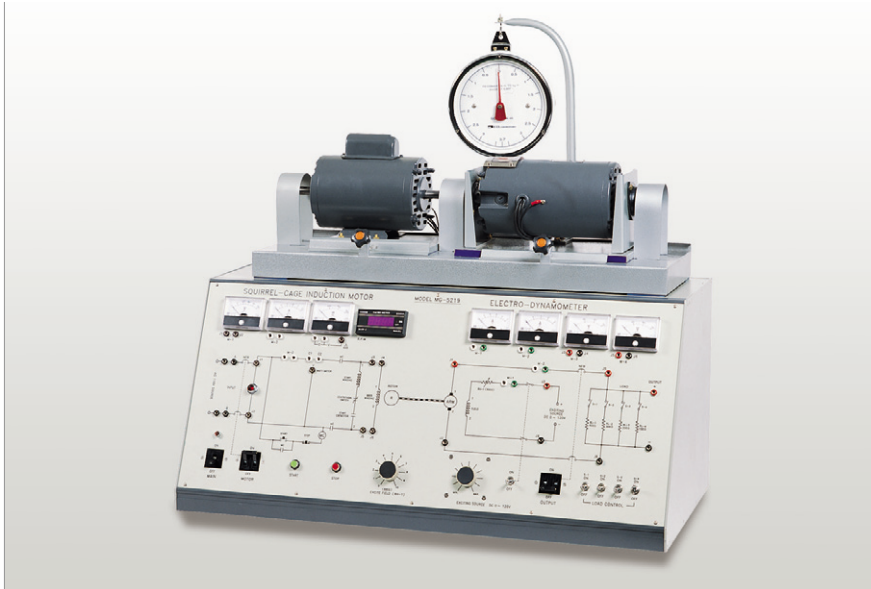


- Electrical Machine

SQUIRREL CAGE INDUCTION MOTOR/ ELECTRO-DYNAMOMETER

MG-5219

- Torque and load characteristics measurement by Electro-dynamometer
- Start and load characteristics of squirrel cage induction motor



> EXPERIMENTS

- Squirrel cage induction motor's start characteristics and slip
- Alteration of the rotative directions of squirrel cage induction motor
- Induction motor's slip speed and torque
- Measurement of induction motor's power efficiency
- How to use electro-dynamometer
- Torque Measurements by dynamometer
- Use of separately excited DC generator

> SPECIFICATIONS

MOTOR SECTION

- **Winding Type**
 - » Squirrel cage rotor
 - » Split-phase stator
- **Speed** : 1725 RPM
- **Input Voltage** : AC 110V, 60Hz
- **Input Current** : 6.6A
- **Number of Poles** : 4 poles
- **Horsepower** : 1/3 HP
- **Start Capacitor** : 180~220 μ F
- **Indication Meter** : 1-current, 1-voltage, 1-RPM(digital), 1-watt
- **Overload Trip** : 7A(Approx.)

GENERATOR SECTION

- **Winding Type** : Shunt(Separator)
- **Speed** : 1800 RPM
- **Horse Power** : $\frac{1}{3}$ HP
- **Number of Poles** : 2 poles

- **Shunt Rheostat** : 0~300 Ω , 50W
- **General Output** : 120V DC, 2.4A
- **Exciting Power** : DC 0~120V, 1A
- **Indication Meter** : 2-current, 2-voltage
- **Overload Trip** : 4A Approx.
- **Load Resistance** : 48 Ω ~480 Ω , 500W

GENERAL CHARACTERISTICS

- **Main Input Voltage** : AC 220V, single phase
- **Rating** : 30 minutes
- **System Size** : 960(W) x 860(H) x 475(D)mm
- **Weight** : 80kg

ACCESSORIES

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