

**MOTOR / GENERATOR / CUT AWAY UNIT**

Model Number : GOTT-MGC-609

**DESCRIPTION**

Electrical machines convert electrical energy into mechanical energy or vice versa. A fundamental distinction can be drawn between DC, AC and three-phase machines.

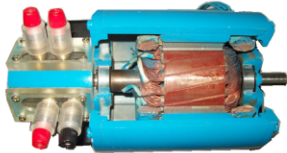





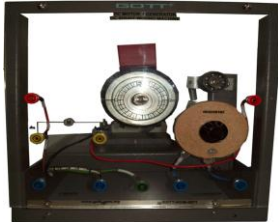


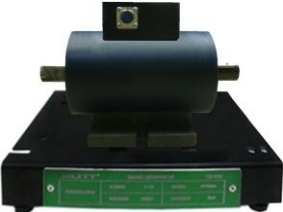


GOTT provides various categories of electric motor for different application. This allows students to understand the characterization and specification of motors.

The machines used for training in electrical engineering are designed so that nearly all of the circuitry and drives found in industry, commerce and at home can be conveyed in a didactic fashion in hands-on training. Using the servo drive and braking system it is possible to easily determine all of the relevant data for electrical machines.

<b>MOTOR-GENERATOR UNIT</b>							
<b>PERMANENT SPLIT CAPACITOR MOTOR</b>	<b>CODE 159-003</b>	<b>THREE PHASE INDUCTION MOTOR</b>	<b>CODE 159-004</b>	<b>SINGLE PHASE SYNCHRONOUS MOTOR</b>	<b>CODE 610-002</b>	<b>SINGLE PHASE CAPACITOR START INDUCTION MOTOR</b>	<b>CODE 610-003</b>
Power : 250W Voltage: 240VAC Current: 1A Frequency: 50HZ Speed: 1400rpm		Power: 170W Voltage: 415VAC Current: 0.45A Connection: Δ & Y Speed: 1500rpm		Power: 250W Voltage: 240VAC Current: 2.2A Speed: 1725rpm		Power: 200W Voltage: 240VAC Current: 2.5A Speed: 1725rpm	
							
<b>THREE PHASE WOUND ROTOR INDUCTION MOTOR</b>	<b>CODE 611-002</b>	<b>THREE-PHASE SYNCHRONOUS GENERATOR</b>	<b>CODE 159-005</b>	<b>THREE PHASE SALIENT POLE SYNCHRONOUS MOTOR</b>	<b>CODE 611-004</b>	<b>DC SEPARATELY EXCITED MOTOR</b>	<b>CODE 159-002</b>
Power: 100W Voltage: 415VAC Current: 0.55A Excitation Voltage: 12VDC Connection: Δ & Y Speed: 1400rpm		Power: 170W Voltage: 415VAC Current: 0.43A Excitation Voltage: 12VDC Excitation Current: 1.4A Connection: Y Speed: 1500rpm		Power: 300W Voltage: 415VAC Current: 1.17A Excitation Voltage 12VDC Excitation Current: 0.3A Speed: 1800rpm		Power: 240W Voltage: 240VDC Current: 1.0A Excitation Voltage: 240VDC Excitation Current: 1.0A Speed: 1500rpm	
							
<b>DC COMPOUND MOTOR</b>	<b>CODE 159-001</b>	<b>DC PERMANENT MAGNET MOTOR</b>	<b>CODE 612-003</b>	<b>TACHO GENERATOR</b>	<b>CODE 159-017</b>	<b>ELECTROMAGNETIC BRAKER</b>	<b>CODE 731-990</b>
Power: 240W Voltage: 240VDC Current: 1A Speed: 1500rpm Excitation Voltage: 240VDC Excitation Current: 0.5A		Power: 200W Voltage: 240VDC Current: 2A Speed: 1500rpm		Speed: 2000rpm Output: Max. 20VDC		Maximum braking torque: 10Nm Maximum rotating speed: 6000 rpm	
							

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<b>SYNCHRONOUS MOTOR (CUT AWAY)</b> <b>CODE 613-001</b> Motor is cut way to show slip ring, brushes, rotor, stator, windings, poles, ball bearing and etc. 	<b>INDUCTION SQUIRREL CAGE MOTOR (CUT AWAY)</b> <b>CODE 613-002</b> Motor is cut way to show squirrel cage, brushes, rotor, stator, windings, poles, ball bearing and etc. 	<b>OPENED TYPE COMPRESSOR TWIN CYLINDER (CUT AWAY)</b> <b>CODE 613-003</b> Opened/Sectioned Air Conditioning Compressor 	<b>RECIPROCATING HERMETIC COMPRESSOR (CUT AWAY)</b> <b>CODE 613-004</b> Opened/Sectioned Air Conditioning Compressor 
<b>THREE PHASE SLIP RING MOTOR</b> <b>CODE 243-000</b> Power: 1.5kW Voltage: 415V Type: 4 Pole Speed: 15000rpm 	<b>PRONY BRAKE</b> <b>CODE 019-000</b> Prony brake with resistant ribbon Mechanical braking action and dynamometer Power: 500W / Speed: 3000 rpm 	<b>DC SHUNT WOUND MOTOR</b> <b>CODE 612-004</b> Power: 100W Voltage: 240VDC Current: 0.5A Speed: 1600rpm (With variable resistor 3k ohm) 	<b>DC MACHINE</b> <b>CODE 612-005</b> Power: 200W Voltage: 240VDC Current: 2A Speed: 1500rpm (With variable resistor 3k ohm) 
<b>RPM / TORQUE METER</b> <b>CODE 609-001</b> Input Signal : NPN, PNP type voltage pulse Accuracy : $\pm 0.02\%$ Measurement frequency range : 1Hz~25kHz Required: Torque & RPM Sensor (Code: 609-003) 	<b>TORQUE &amp; RPM SENSOR</b> <b>CODE 609-002</b> Torque : $0 \pm 20\text{Nm}$ Voltage : $\pm 15\text{VDC}$ Signal : 60 pulse per turn Range : 5-15Khz Accuracy : 0.5 Required: RPM/Torque Meter (Code: 609-001) 	<b>DC DRIVE CONTROLLER</b> <b>CODE 609-003</b> Input : 240VAC Output : 0-220VDC Required: DC Series Motor (Code:609-004) 	<b>DC SERIES MOTOR</b> <b>CODE 609-004</b> Power : 1 HP Voltage : 200V Current : 4.9A Speed : 1500rpm Required: DC Series Drive Controller (Code:609-003) 

**Manuals :**

- (1) All manuals are written in English
- (2) Model Answer
- (3) Teaching Manuals

**General Terms:**

- (1) Accessories will be provided where applicable
- (2) Manuals & Training will be provided where applicable
- (3) Designs & Specifications are subject to change without notice
- (4) We reserve the right to discontinue the manufacturing of any product

**Warranty:**

2 Years

**ORDERING INFORMATION :**

ITEM	MODEL NUMBER	CODE
MOTOR / GENERATOR/CUT AWAY UNIT	GOTT- MGC-609	609-000

\* Proposed design only, subject to changes without any notice.