AMRON

DEMOUNTABLE ELECTRICAL MACHINES DM-100

A Unique and Flexible Training System

- Genuine Industrial Parts
- Robust and Durable
- Aluminium Stators & End Shields
- Quick and Easy Assembly
- All Internal Parts Highly Visible
- High & Low Voltage Systems Available
- Comprehensive Instruction Manuals

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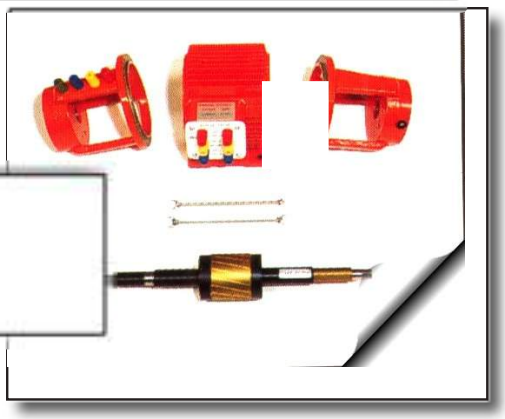
The DM-100 enables the student to study the construction, operation, control and characteristics of various rotating electrical machines.
The system comprises four main groups – single phase motors; 3 phase motors; DC motors & AC/DC generators.

Slipring Motor

This motor uses a 3 phase stator and a wound rotor with windings terminated on sliprings. By applying low voltage DC to the rotor, this machine can be run as a synchronous motor. When driven by another machine, it can run as an AC generator.



Cage Motor

This motor has 3 independent windings which can be connected in star or delta. Star/delta,forward/reverse, or 3 phase auto-transformer starter accessories can be used to operate this machine.

DC Motor/Generator

The DC motor/generator has 3 sets of windings: shunt, series & interpole. The machine can be run as a shunt, series or compound motor.
Speed control is possible using the appropriate accessories.

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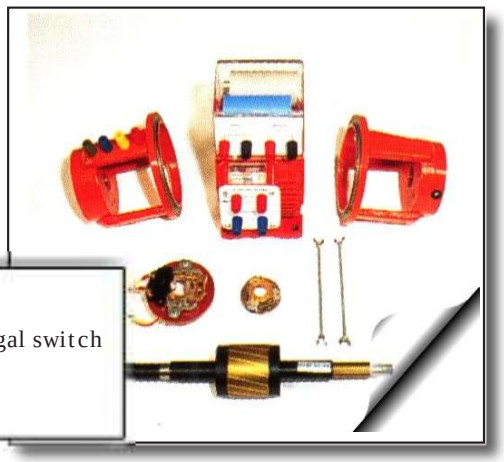
Split Phase Motor

This motor has a cage rotor & a stator with a main & auxiliary winding. A centrifugal switch cuts out the auxiliary winding at approximately 70% of full speed.Motor direction is easily reversed by changing connections to either winding.



Capacitor Motor

This motor uses a cage rotor and a stator with a main & auxiliary winding. A centrifugal switch cuts out the auxiliary winding at approximately 70% full speed.
Motor direction is easily reversed by changing connections to either winding.

Universal Motor

This machine uses a split phase stator with a DC armature & brushgear. It is essentially a DC series-connected motor which runs on AC.

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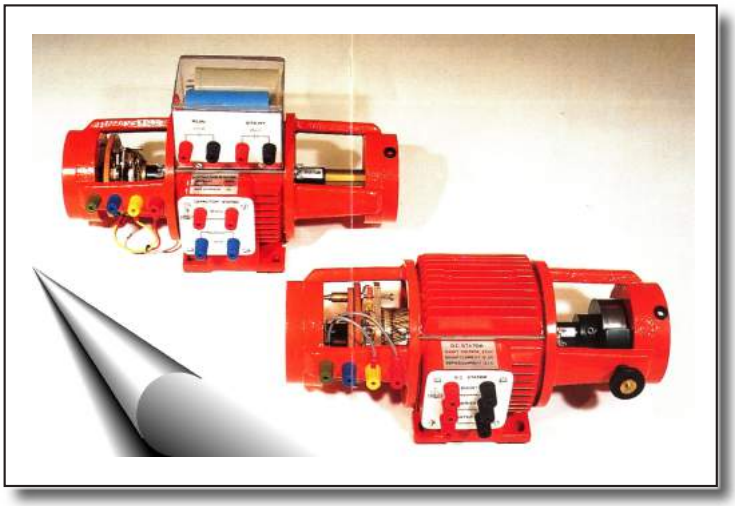


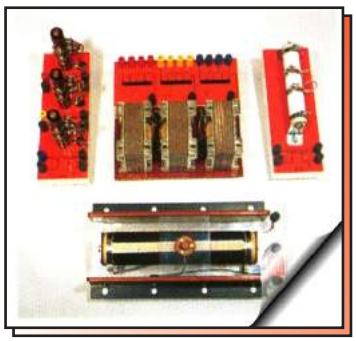
The versatile DM-100 features interchargeable rotor and stators and sufficient parts to assemble at least 2 machines, and to couple these together toform a motor/generator set. Major components are clearly labelled, and the machines are easy to assemble and dismantle.

STANDARD SET

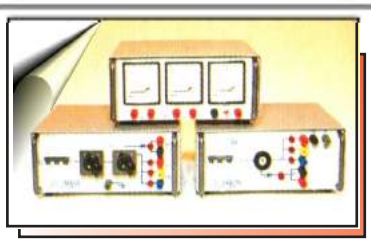
Description	Qty	Description	Qty
End Shields	2	DC Brushgear	1
End Shields With Terminals	2	Slipring Brushgear	1
DC Stator	1	Mechanical Brake	1
Split Phase Stator	1	Centrifugal Switch Set	1
Capacitor Stator	1	Clamping Set	1
3 Phase Stator	1	Assembly Bolt & Nut Set	2
DC Rotor	1	Coupling Set	1
Cage Rotor	1	Allen Keys	3
Slipring Rotor	1	Experiment Manual	1

DM-100 Optional Accessories

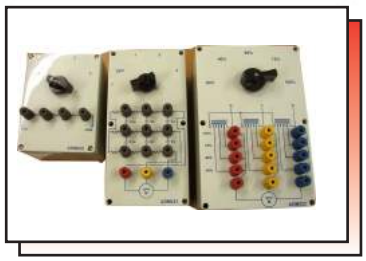
Shaded Pole Motor



Eddy Current Brake with Power Supply
Brake indicates torque in Nm, speed in rpm.
Current can be measured using Amron meter unit



Motor Starting Accessories
Variable resistor; slipring resistors; DC starting resistor; auto-transformer unit



Power Supply & Meter
Low voltage (48V) High voltage (220/380V)
Meter unit with 2 x ammeters & 1 x voltmeter

Motor Starters
DC and 3 phase faceplate simulators

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