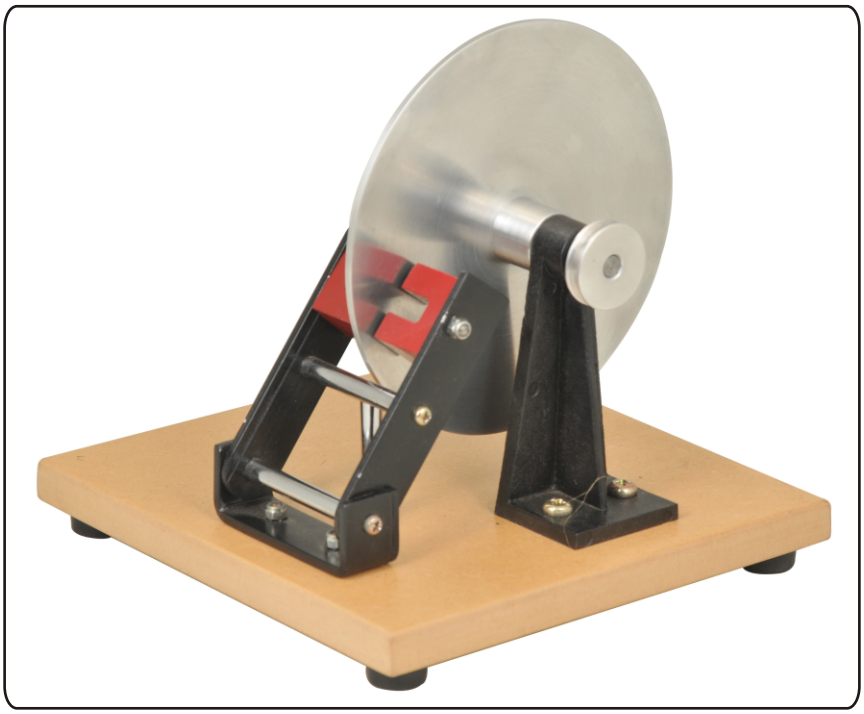
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EDDY CURRENT UNIT

CAT NO. PH0467J



Instruction Manual

PURPOSE

This unit is an extension to the Energy Conversion Series and is designed to show the effect of eddy current braking.

APPARATUS DETAILS

A pulley is fixed to the rotatable disc so that it may be turned using the hand-wheel unit, or the motor/generator unit. Two strong button magnets are mounted in a hinged arm, so that the disc can be turned with or without their extra magnetic field.

OPERATING PROCEDURE

It is advisable to clamp the unit and its “driver” to the bench, connecting the pulleys by a spring or rubber driving belt. If the electric motor is used to the drive the disc it will probably be found that a rubber band serves as the most convenient form of belt.

With the hinged arm away from the disc, rotate the disc at a fairly high speed and, while still rotating, swing the magnet arm inwards over the disc when a very powerful retardation is apparent.

If the magnet arm is held lightly in the fingers while it is slowly moved into the “braking” position, the powerful interaction force is also very noticeable.

Use an ammeter to measure the current flowing through the motor.

Manufactured by :
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