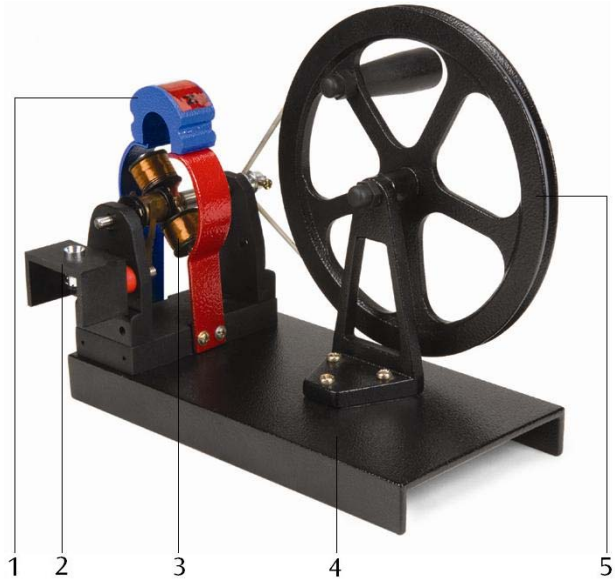
Experiment Equipment Dynamo U30066

Instruction Sheet

09/08 ALF



1 Magnet
2 LED
3 Coils
4 Base plate
5 Hand-drive pulley

1. Description

The experiment equipment dynamo is used to demonstrate the conversion of mechanical energy into electrical energy.

The motor is mounted on a base plate and coupled by a rubber belt to a hand-drive pulley. External connection is via 4 mm sockets with a light emitting diode acting as an output indicator. The magnetic field is provided by a removable permanent magnet.

2. Equipment supplied

1 Apparatus on base plate
1 Removable magnet
1 Stackable light emitting diode
1 Small dynamo pulley

3. Technical data

Base plate:	200 x 100 x 20 mm³
Hand-drive pulley:	150 mm dia.
Height:	180 mm

4. Operation

- Put the magnet on top of the coils.
- Attach the LED to the output sockets.
- Turn the handle to induce a voltage, which will light the LED. The faster the dynamo turns, the brighter the LED.

The output can also be connected to a cathode ray oscilloscope. If the time base is on a slow setting, and the handle is turned slowly, then students will see the dot moving up and down as it moves across the screen. It will be immediately obvious that both the amplitude and the frequency of the signal increase if the coil is turned faster.