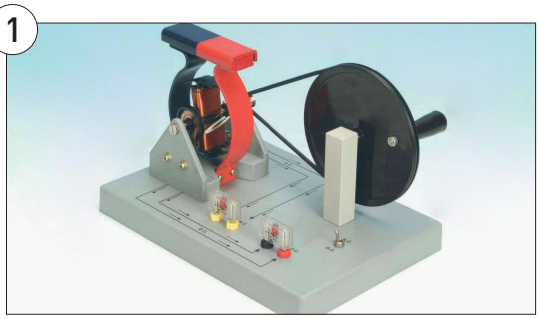
1

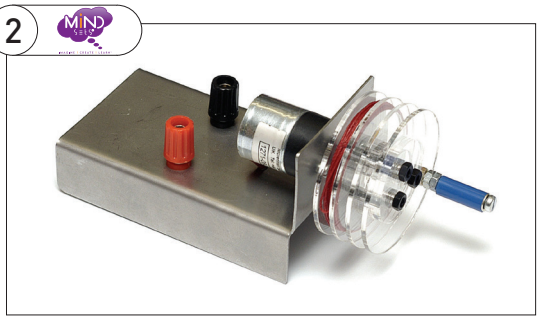


1. Demonstration Motor AC/DC

Produces both AC and DC current when the hand wheel is turned. The generation of AC/DC voltage is represented by LEDs.

Code	Pack	Price
231-032	Each	£33.33

2



2. Motor/Generator Unit

This unit can be used for a variety of purposes to illustrate energy transfers: it can be used to lift a mass or stretch a bungee cord, and to generate an electrical current when the mass falls again or the bungee cord is released. It can also be turned by hand to generate a current. The motor/generator (6 – 9V) is mounted on a robust metal base, and the gearing of the unit and the sizes of the pulleys have been chosen to enable a variety of qualitative and quantitative experiments to be undertaken.

Code	Pack	Price
SESEP074	Each	£66.93

3

3. Lascells Electro Mechanical Winch System

A system to investigate the raising of a mechanical load by an electrical input. A small DC electric motor is geared down to rotate a shaft around which a thread is wound. The thread is attached to a load and the students time the lifting process while noting the electrical input to the system. It enables investigations to be carried out into efficiency, energy transfer, power etc.

Code	Pack	Price
PHY1004	Each	£87.37

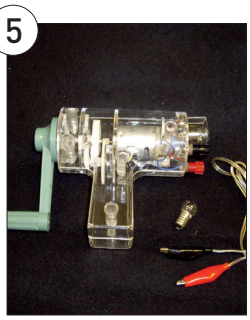
4

4. Bicycle Dynamo

For demonstrating the use of a dynamo in lighting a lamp. This apparatus has a cycle dynamo mounted on a base connected with an MES lamp holder and 2.5V bulb. 220 x 115 x 105mm high.

Code	Pack	Price
BDYNAMN	Each	£23.09

5

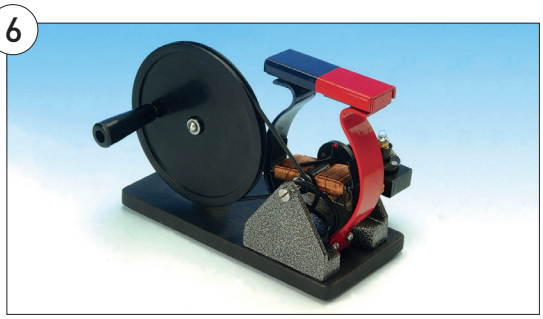


5. Hand Generator

A simple and robust DC hand generator. Output is via 4mm sockets, or the crocodile leads (also included).

Code	Pack	Price
PY1042	Each	£7.77

6



6. Demonstration Dynamo

This model uses the same basic assembly as the EDU727N demonstration electric motor except it is mounted on a base plate approx. 230 x 90mm which also carries a hand-drive pulley of 120mm Ø. It is coupled to the smaller dynamo pulley by a rubber belt to give a step-up ratio. Electrical output is via a pair of 4mm sockets and a lamp is provided as a simple output indicator. The model may also be used as a motor on 6-8V DC supply.

Code	Pack	Price
EDU728	Each	£26.84