

Wind Turbine Workshop

Materials List

The majority of the wind turbine components are available from Middlesex University Teaching Resources, www.mutr.co.uk, Tel: 01992 716052. The reference code for each component is given below.

MUTR supply a complete wind turbine kit will all the necessary components
BCE 009

Alternatively a kit can be made up of the following components at reduced cost if purchased in bulk.

WIND TURBINE KIT LIST – INDIVIDUAL PARTS

MUTR - www.mutr.co.uk

- 1 x 3.0 – 6.0 V Solar Motor – **EW2 011**
- 1 x 75mm polythene wheel – **CW3 031** (must be drilled for the spokes)
- 1 x 10mm steel axle – **CW3 012** (pack of 50 axles 300mm long) or any material (wood, plastic or metal) of approximately 3mm diameter
- 1 x 600mm x 50mm sheet corriflute – **CS6 001K** (600mm x 600mm x 4mm sheet)
- 1 set of polythene gears – **TG1 002** (approximately 20 sets)
- 1 Highbright Red LED – **EO2 009**
- 4 x 19mm M4 spacers – **TS6 033** each
- 1 x pipe clip – **PIP 001** each

Rapid Electronics - www.rapidonline.com

- 6 wooden dowel spindles 200mm long – **06-0764** (pack 100, 4mm x 600mm)
- Alternative supplier for the 75mm wheel – **37-2230** (pack 10)

Onecall - onecall.farnell.com

- 1 x 16mm M4 machine screw – **1419301** (pack 100)
- 4 x 25mm M4 machine screws – **1219303** (pack 100)
- 5 x M4 nuts – **1420790** (pack 100)
- 1 x 3mm M3 spacer – **666865** (pack 25)
- 2 x 6mm M2.5 machine screws – **1419411** (pack 100)

Other components

- Pipe – 40cm length ‘overflow piping from any DIY/Building Supplies shop
- Housing plates – CUED outreach made up the housing plates in our own workshop. If you would like the drawings for these plates please e-mail outreach-officer@eng.cam.ac.uk