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Company Reg. No: 197301576G GST Reg. No: M2-0016511-0

## Electric DC Motor

### 23010 Economy Electric Motor

1.5 to 3V budget priced DC motor with 2mm output shaft.

Voltage: 1.5 to 3.0V

Current: 0.32 to 1.1A

Speed RPM: 6500 to 8700.



### 23171 Medium Torque Electric Motor

1.5 to 4.5V DC motor with 2mm output shaft.

Used together with a motor mounting clip, these motors can be adjusted to get the spacing correct on gear driven models.

Voltage: 1.5 to 4.5V

Current: 0.083 to 0.41A

Speed RPM: 3000 to 4900



### P/N 23013 High Torque Electric Motor

3 to 6V DC motor with 2mm output shaft.

Voltage: 3.0 to 6.0V

Current: 0.22 to 0.99A

Speed RPM: 8000 to 9600



### P/N 23639 Heavy Duty DC Motor

This heavy duty 3 pole DC motor (6-72V) is designed for industrial or automotive applications and is ideally suited to model making where a higher torque is required.

Operating Voltage: 6-72V

Speed RPM: 7500-8900

Current: 0.7-7.5A

Weight: 205g





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## Gearbox Motor



23482 ClearBox Motor



23480 Spare Gears Kit

### 23482 ClearBox Motor

3 to 6V motor with adjustable plastic gearbox and 4mm output shaft. The high speed/low power of this motor is converted through the gearbox into a low speed/high power output.

Voltage: 3 to 6V

Current: 0.220 to 0.99A Speed

RPM: Approx 3 to 625



### 23478 Economy GearBox

Low cost axle drive unit which fits to the high torque electric motor (23013) (30:1 ratio).

**Please note:**

The Economy Gearbox is sold as a separate item and is not fitted to a motor as shown.



### 23697 Multi-Ratio GearBox Motor

6 ratios, 4:1, 16:1, 64:1, 256:1, 1024:1, and 4096:1

Current consumption depends on load but is within the range 0.2 to 0.8 amps.

The output shaft is 3mm diameter. 1.5-3V D.C power source required



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## Solar Motor



### 23619 Miniatures Solar Motor

This miniature solar motor weighing just 22g and with an outside diameter of just 25mm is just the job to demonstrate the conversion of solar energy and for use in project work. The output shaft has a 2mm diameter making the propellers and impellers a tight push fit onto the spindle. It has an operating range of 0.7 to 5.0 volts at just 200mA. Under a 100W lamp all of the Commotion solar cells shown on P36 power this motor. Motor diameter: 23mm.



### 48060 Solar Cell Motor

Low inertia type solar motor, ideally suited for use with any of the solar cells shown.

The operating Voltage is 1.5 to 6 Volts.

It requires around 22mA to function. Under a 100W lamp all of the Commotion solar cells (page36) can power this motor. Motor diameter: 30mm approx.



### 23591 Miniature Solar Motor & Gearbox

Low cost self-assembly unit is ideal to use as the driver of a mechanical model powered by solar energy. The output has a maximum gear ratio of 27:1 making the output torque surprisingly powerful.

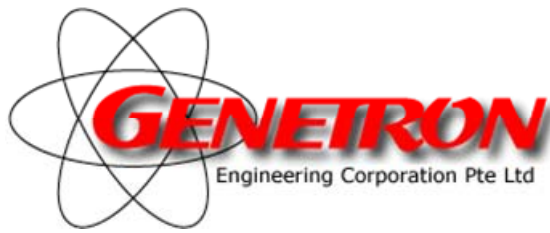
The output shaft has a 2mm diameter making propellers and impellers a tight push fit onto the spindle. It has an operating range of 0.7 to 5.0 volts at just 200mA. Under a 100W lamp all of the Commotion Solar cells (page 36) can power this motor. Motor diameter: 23mm approx. (1+)



### 64828 Solar Motor Including Motor Axles

A tough and durable geared solar power unit in a transparent case. The unit will work in sunlight and is compatible with the GIGO gears and pulley range.

Size: 65mm (L) x 50mm (W) x 35mm (H)



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## Other Motors



### 64451 Submersible Motor

Overall length 100mm. Prop diameter 18mm. Requires 1 AA battery.



### 64597 Clockwork Motor

This simple wind up motor provides an alternative to the common battery powered ones and will easily drive a mechanical toy or buggy.

It is also a highly visual way to show how energy can be stored and applied. Comes with key attached. Overall length 40mm, casing width 10mm, spindle length 53mm, spindle diameter 2mm.



### 64830 Multi-Drive Power Pack

This 4.5V geared motor unit has four different output shafts running at 3 different speeds and comes with a reversing switch. It is compatible with all the GIGO gear and pulley range.



## Miscellaneous

### 64112 Motor Clip

This plastic spring clip is ideal for holding components between 19-25mm diameter in position. Perfect to use with our electric motors or plastic syringes. Works with the following motors: 23010, 23173 and 23013.

### 23043 Motor Pulley and 64301 Nylon Reducer - 4mm to 2mm

The motor pulley push fits directly onto the motor shaft providing a direct drive pulley. The reducer push fits into wheels and pulleys with a 4mm centre hole, thus reducing the hole from 4 to 2mm.

