

# Pololu 50:1 micro metal geared motor HPCB 6V with extended motor shaft

This geared motor is a miniature high-performance DC motor with 6 V and long-life carbon brushes and a 51.45:1 metal gearbox. It has a cross-section of 10 × 12 mm, and the D-shaped gearbox output shaft is 9 mm long and has



**Product number** POL3073

**Weight** 0.01kg

## Product description

This geared motor is a miniature high-performance DC motor **with 6 V** and **long-life carbon brushes** as well as a **51.45:1** metal gearbox. It has a cross-section of 10 × 12 mm, and the D-shaped gearbox output shaft is 9 mm long and has a diameter of 3 mm. This version also has a 4.5 × 1 mm **extended motor shaft**.

### Important specifications:

- Voltage
- No-load power
- Stall extrapolation
- 6 V
- 650 rpm, 100 mA
- 0.74 kg·cm (10 oz·in), 1.5 A

### Technical specifications:

- Size: 10 × 12 × 26 mm
- Weight: 9.5 g
- Shaft diameter: 3 mm
- Gear ratio: 51.45:1
- No-load speed at 6 V: 650 rpm
- No-load current at 6 V: 0.10 A
- Stopping current at 6 V: 1.5 A
- Standstill torque @ 6V: 0.74 kg-cm
- Max. Output power @ 6V: 1.2 W
- Extended motor shaft? Yes
- Long-life carbon brushes? Yes
- Motor type: 1.5A stall @ 6V (HPCB 6V - carbon brush)
- Max. Efficiency at 6V: 32 %
- Speed at max. efficiency: 490 rpm
- Torque at max. efficiency: 0.16 kg-cm
- Current at maximum efficiency: 0.42 A
- Output power at maximum efficiency: 0.80 W

Further information as well as data sheets, instructions and downloads can be found at:

<https://www.pololu.com/product/3073>

## Product properties

<b>Gross Weight (kg)</b>	0.010
<b>Country of Origin</b>	China
<b>Brand</b>	Pololu
<b>Product ID</b>	POL3073
<b>Manufacturer ID</b>	3073
<b>EAN</b>	5904422306359
<b>Zolltarifnummer</b>	85011040

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