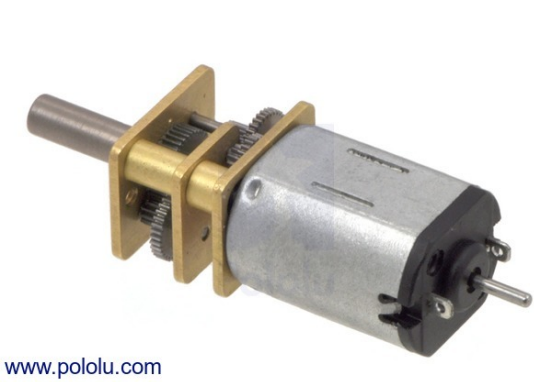


50:1 Micro Metal Gearmotor HP 6V with Extended Motor Shaft



www.pololu.com



Pololu item #: 2213145 in stock

Brand: Pololu

Status: Active and Preferred

✓RoHS 3

Free shipping in USA

Free add-on shipping in USA

Price break	Unit price (US\$)
1	16.95
10	14.41
50	12.71

Quantity:

Add to cart

backorders allowed

Add to wish list

This gearmotor is a miniature **high-power, 6 V** brushed DC motor with 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 3 mm in diameter. This version also has a 4.5 × 1 mm **extended motor shaft**.

Key specifications:

voltage	no-load performance	stall extrapolation
6 V	590 RPM, 70 mA	0.86 kg·cm (12 oz·in), 1.6 A

Alternatives available with variations in these parameter(s): gear ratio motor type extended motor shaft? [Select variant...](#)

or .

Description

Specs (16)

Pictures (18)

Resources (12)

FAQs (0)

On the blog (2)

Dimensions

Size:	10 × 12 × 26 mm ¹
Weight:	9.5 g
Shaft diameter:	3 mm ²

General specifications

Gear ratio:	51.45:1
No-load speed @ 6V:	590 rpm
No-load current @ 6V:	0.07 A
Stall current @ 6V:	1.6 A
Stall torque @ 6V:	0.86 kg·cm

Max output power @ 6V:	1.3 W
Extended motor shaft?:	Y
Motor type:	1.6A stall @ 6V (HP 6V)

Performance at maximum efficiency

Max efficiency @ 6V:	38 %
Speed at max efficiency:	490 rpm
Torque at max efficiency:	0.15 kg·cm
Current at max efficiency:	0.32 A
Output power at max efficiency:	0.75 W

Notes:

- 1 Output shafts add 14 mm to the 26 mm length.
- 2 D shaft.