בר-עודים ווווים אינו של הוויים מוויים ביים ווויים ווויים

120:1 Mini Plastic Gearmotor, Offset 3mm D-Shaft Output, Extended Motor Shaft



This compact, inexpensive plastic gearmotor (brushed DC motor with a 120:1 reduction gearbox) is well suited for use in small robots. While intended for operation at 4.5 V, it should run comfortably in the 3 V to 6 V range. The gearbox has a 9.7mm-long, 3 mm-diameter D-shaped output shaft that is offset from but parallel to the motor shaft, and a built-in safety clutch helps protect the gears from excessive loads. This version also has a 5×1.5 mm **extended motor shaft**.

Key specifications:

voltage	no-load performance	stall extrapolation
4.5 V	120 RPM, 80 mA	1.4 kg·cm (20 oz·in), 800 mA

Alternatives available with variations in these parameter(s): shaft type no-load speed @ 4.5V extended motor shaft? **Select variant...**

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Description Specs (11) Pictures (13) Resources (7) FAQs (1) On the blog (2)

Dimensions

Size: 36.5 x 20 x 27.4 mm¹

Weight: 19 g

Shaft diameter: 3 mm²

General specifications

Shaft type: offset 3mm D

Typical operating voltage: 4.5 V

Gear ratio: 120:1

No-load speed @ 4.5V: 120 rpm

No-load current @ 4.5V: 80 mA

Stall current @ 4.5V: 800 mA

Stall torque @ 4.5V: $20 \text{ oz} \cdot \text{in}^{3}$

Extended motor shaft?: Y

Notes:

- 1 See drawing for detailed dimensions.
- 2 D shaft.
- **3** Note: the gearbox's built-in clutch might start slipping at a lower torque.