

9.7:1 Metal Gearmotor 25Dx48L mm HP 6V with 48 CPR Encoder



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This gearmotor consists of a **high-power, 6 V** brushed DC motor combined with a **9.68:1** metal spur gearbox, and it has an integrated 48 CPR quadrature encoder on the motor shaft, which provides **464.64 counts per revolution** of the gearbox’s output shaft. The gearmotor is cylindrical, with a diameter just under 25 mm, and the D-shaped output shaft is 4 mm in diameter and extends 12.5 mm from the face plate of the gearbox.

Key specs at 6 V: 990 RPM and 550 mA free-run, 39 oz-in (2.8 kg-cm) and 6.5 A stall.

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Dimensions

Size:	25D x 60L mm
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Weight:	95 g
Shaft diameter:	4 mm

General specifications

Gear ratio:	9.68:1
Free-run speed @ 6V:	990 rpm
Free-run current @ 6V:	550 mA
Stall current @ 6V:	6500 mA
Stall torque @ 6V:	39 oz·in
Lead length:	8 in ¹
Motor type:	6.5A stall @ 6V (HP 6V)
Encoders?:	Y

Notes:

¹ May vary by a few inches.