

Stepper motor - NEMA-17 size - 200 steps/rev, 12V 350mA

PRODUCT ID: 324

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DESCRIPTION

TECHNICAL DETAILS



DESCRIPTION

A stepper motor to satisfy all your robotics needs! This 4-wire bipolar stepper has 1.8° per step for smooth motion and a nice holding torque. The motor was specified to have a max current of 350mA so that it could be driven easily with an [Adafruit motor shield for Arduino](#) (or other motor driver) and a wall adapter or lead-acid battery.

Some nice details include a ready-to-go cable and a machined drive shaft (so you can easily attach stuff). We drove it with an [Adafruit motor shield for Arduino](#) and it hummed along nicely at 50 RPM. To connect to our shield, put the wires in this order: Red, Yellow, skip ground, Green, Brown (or Gray)

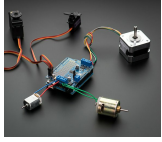
TECHNICAL DETAILS

- [Datasheet](#)
- [Declaration of Conformity](#)
- [RoHS](#)
- 200 steps per revolution, 1.8 degrees
- Coil #1: Red & Yellow wire pair. Coil #2 Green & Brown/Gray wire pair.
- Bipolar stepper, requires 2 full H-bridges!
- 4-wire, 8 inch leads

- 31mm/1.22" square mounting holes, 3mm metric screws (M3)
- 5mm diameter drive shaft, 24mm long, with a machined flat
- 12V rated voltage (you can drive it at a lower voltage, but the torque will drop) at 350mA max current
- 28 oz*in, 20 N*cm, 2 Kg*cm holding torque per phase
- 35 ohms per winding



LEARN



[Adafruit Motor Shield V2 for Arduino](#)

Stackable, high current DC and Stepper motor shield for Arduino



[Adafruit Motor Selection Guide](#)

Choose the right motor (and controller) for the job!



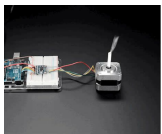
[All About Stepper Motors](#)

The Adafruit guide to choosing and using stepper motors.



[Adafruit DC and Stepper Motor HAT for Raspberry Pi](#)

Stackable Steppers and DC motor control for your Raspberry Pi



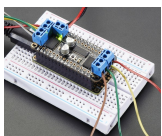
[Adafruit TB6612 1.2A DC/Stepper Motor Driver Breakout Board](#)

H-Bridge it up



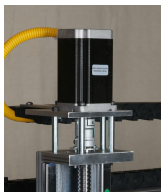
[Bluetooth Controlled Motorized Camera Slider](#)

Take epic timelapses with a DIY camera slider



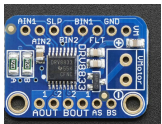
[Adafruit Stepper + DC Motor FeatherWing](#)

Make your feather motorized



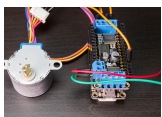
[Current Limiting Stepper Driver with DRV8871](#)

Got big motors to drive? Call in the choppers!



[Adafruit DRV8833 DC/Stepper Motor Driver Breakout Board](#)

Chopper it up with current limiting motor control



[CircuitPython Hardware: PCA9685 DC Motor & Stepper Driver](#)

How to use the PCA9685 DC Motor & Stepper driver with CircuitPython!

Remote Effects Trigger Box

Build this powerful RF Feather-based controller to wirelessly trigger props, lights, effects, and more!

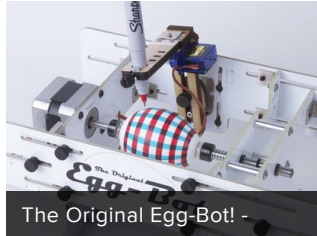
Motorized Camera Slider MK3

An upgrade to the slider project

MAY WE ALSO SUGGEST...



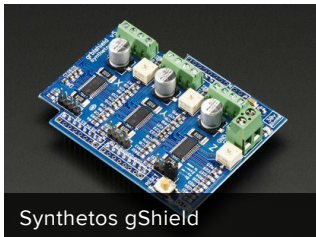
Motor party add-on pack for



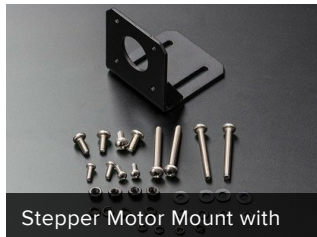
The Original Egg-Bot -



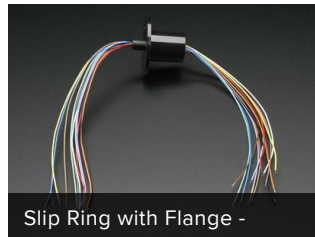
12V 5A switching power



Synthetos gShield



Stepper Motor Mount with



Slip Ring with Flange -



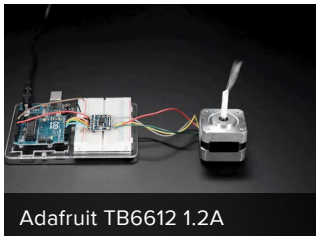
Aluminum Flex Shaft



DC Motor in Micro Servo



Small Reduction Stepper



Adafruit TB6612 1.2A



DC Toy / Hobby Motor - 130



The EggBot Pro

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"Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so that we may fear less." - Marie Curie



4.9 ★★★★★
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Customer Reviews