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## Bipolar Stepper Motor with Planet Gear Box (18kg.cm)

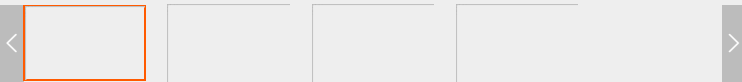
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Product recommendation carousel showing a bipolar stepper motor with planet gear box, hybrid stepper motor, gravity sensor (DRV8825), brushless motor (159RPM), and micro motor (0.6kg.cm). Includes a shopping cart icon and a 'BUY IT NOW' button.

## INTRODUCTION

This bipolar stepper motor with planet gear box (gear ratio: 5.18) uses a standard 8mm-diameter D type output shaft, and has a 1.8° step angle (200 steps/revolution). Each phase draws 1.0 A at 3.4 V, allowing for a holding torque of 18kg-cm (176N-cm) (200rpm). The motor has a body dimension of 42mm square and 40mm in length, while the planet gear box is 36mm in diameter and 27mm in length. The motor has four color-coded wires terminated with bare leads: black and green connect to one coil; red and blue connect to the other. It can be easily mounted with 4 M3 threaded holes and can be controlled with the [Dual Bipolar Stepper Motor Shield for Arduino \(DRV8825\)](#).

Notice: please carefully confirm technical details (torque, dimension, mounting, etc) for your project(s) before purchasing.

DIY Alarm using Home Assistant, Connected, and Sonoff RF Bridge



Hardwares you needed:

[Bipolar Stepper Motor with Planet Gear Box](#)  
Downloaded from [Arrow.com](#)



This is a simple but fun application for Halloween. All you need is a mask, a stepper motor, a micro-controller, a motor driver, a MP3 module and some wires as well as batteries.

Hardware components:

[DFRduino UNO R3 - Arduino Compatible](#)

[TMC260 Stepper Motor Driver Shield For Arduino](#)

[Bipolar Stepper Motor with Planet Gear Box \(18kg.cm\)](#)

[DFPlayer - A Mini MP3 Player For Arduino](#)

[Gravity: Digital PIR \(Motion\) Sensor For Arduino](#)

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## APPLICATIONS

- Printer
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- CNC
- Robotics
- Linear Actuators

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## SPECIFICATION

- Model No: 42BYGH40-18-22A-C5.18
- Step Angle (degrees) :1.8
- 2 Phase
- Voltage: 3.4V
- Current: 1.0A
- Resistance:  $1.7 \pm 10\%$  Ohm/Phase
- Inductance:  $4.3 \pm 20\%$  mH/Phase
- Holding Torque: 3600 g.cm
- Detent Torque: 400 g.cm
- Insulation Class: B
- Life: 6000 hours
- Gear Ratio: 5.18:1
- Hold Torque with Gearbox: 18kg.cm (176N.cm) (200rpm)
- Dimension: 42x42x40mm(1.65x1.65x1.57")
- Mounting: 4 x M3

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## DOCUMENTS

- [Mechanic Datasheet](#)

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## SHIPPING LIST

- Stepper Motor with Planet Gear Box x1

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## REVIEW

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