

# 12V/0.9Kg-cm/285RPM 14:1 DC Gear Motor w/Encoder



## Description

The 3262E is a 12 volt gear motor, generating 0.9 Kg-cm of torque at 285 RPM. This motor is quite compact considering the amount of power it can output.

This motor comes equipped with an E4P US Digital Encoder, which keeps track of the motor's rotation, allowing you to control your motor precisely.

The planetary gearbox on this motor is more sophisticated than a typical spur gearbox and will provide greater efficiency, higher torque, and quieter motor operation.

## Product Specifications

### Motor Properties

Motor Type	DC Motor with Encoder
Output Power (Mechanical)	2.9 W
Rated Speed	285 RPM
Rated Torque	900 g·cm
Stall Torque	5 kg·cm

### Electrical Properties

Rated Voltage	12 V DC
Rated Current	410 mA
Stall Current	1.5 A

### Physical Properties

Shaft Diameter	6 mm
Weight	174 g
Recommended Wire Size (Motor)	20 – 25 AWG

### Gearbox Specifications

Gearbox Type	Planetary
Gear Ratio	13 212□289 : 1

Number of Gear Trains	2
Maximum Strength of Gears	12 kg·cm
Shaft Maximum Axial Load	35 N
Shaft Maximum Radial Load	25 N
Backlash Error	3°

#### **Encoder Specifications**

Encoder Resolution	360 CPR
Connector Type	E4P
Current Consumption Min	27 mA
Supply Voltage Min	4.5 V DC
Supply Voltage Max	5.5 V DC

#### **Customs Information**

Canadian HS Export Code	8501.10.00
American HTS Import Code	8501.10.40.60
Country of Origin	CN (China)