

# 24V/50.9Kg-cm/53RPM 47:1 DC Gear Motor



The 3272 is a 24 volt gear motor, generating 51 Kg-cm of torque at 53 RPM. It's a large motor that provides an amazing amount of torque.

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.

This revision of the 3272 has had its rear shaft and mounting holes changed to be compatible with the [3531 – Optical Rotary Encoder HKT22](#).

## Connection

This motor can be controlled by a DC motor controller. You can find a list of suitable controllers on the Connection & Compatibility tab.

## Warnings



The torque this motor produces when it stalls exceeds the rated strength of the gearbox. This means that stalling or very heavily loading this motor can cause serious damage to the gearbox. To avoid damage, avoid sudden loads or any load higher than the Maximum Strength of Gears spec.

### Motor Properties

Motor Type	DC Motor
Output Power (Mechanical)	30 W
Maximum Speed at Rated Voltage	53 RPM
Rated Torque	51 kg·cm

Stall Torque 345 kg·cm

### **Electrical Properties**

Rated Voltage 24 V DC

Rated Current 2.2 A

Stall Current 10.8 A

### **Physical Properties**

Shaft Diameter 12 mm

Wire Length 300 mm

Weight 1.7 kg

### **Gearbox Specifications**

Gearbox Type Planetary

Gear Ratio 46 82□125 : 1

Number of Gear Trains 3

Maximum Strength of Gears 306 kg·cm

Shaft Maximum Axial Load 200 N

Shaft Maximum Radial Load 100 N

Backlash Error 3°