

24V/82.6Kg-cm/33RPM 76:1 DC Gear Motor



The 3273 is a 24 volt gear motor, generating 82.6 Kg-cm of torque at 33 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 3273 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.

Product Specifications

Motor Properties

Motor Type	DC Motor
Output Power (Mechanical)	30 W
Maximum Speed at Rated Voltage	33 RPM
Rated Torque	82.6 kg·cm
Stall Torque	558 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	76 49□64 : 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°