



Part number:

DCG-1225

**Miniature motor:**

DC Brushed

**Gearhead type:**

Coaxial Planetary

**Gearhead ratios:**

10:1 up to 392:1

**Nominal Voltage:**

3V to 12V and up to 24V

**Nominal load current:**

50 to 350mA

**Maximum torque:**

1.2 KG/cm

**Stalling torque:**

Depends on the motor/gearhead selected.

**Rated speed:**

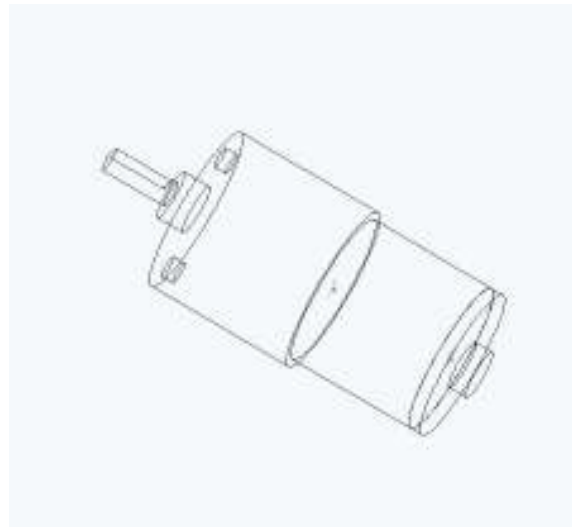
10 to 60 r.p.m.

**Dimensions:**

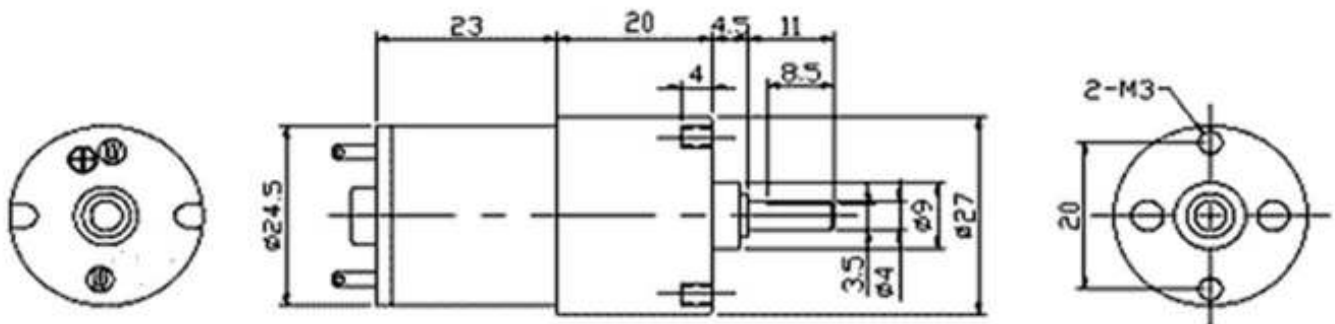
Diameter: ~27mm. Length: ~45mm.



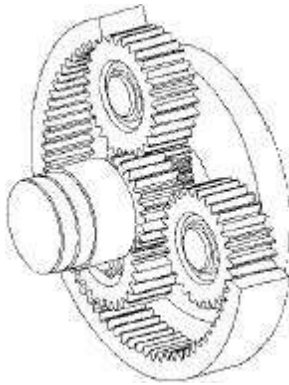
3-D



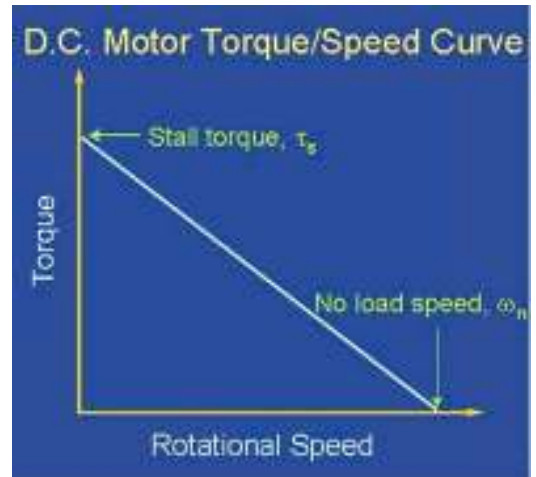
Wire frame



Dimensional Drawing



Planetary gearhead sectional view



Torque

The motor is available for different voltages in the 3 to 24V range. It will operate in a flexible voltage range and will deliver a rotational speed proportional with the voltage applied to the motor.

To increase the torque a total of 6 types of planetary gears are available.

The graph above shows a torque/speed curve of a typical D.C. motor. The torque is inversely proportional to the speed of the output shaft.

In other words, there is a trade off between how much torque a motor delivers, and how fast the output shaft spins. Motor characteristics are frequently given as two points on this graph:

- The stall torque,  $T_s$ , represents the point on the graph at which the torque is a maximum, but the shaft is not rotating.
- The no load speed,  $\Omega_n$ , is the maximum output speed of the motor (when no torque is applied to the output shaft).

**Available options**

**Rotary encoder:**

**Resolution:**

Servo Motor feedback.

10bit (1024 encoder counts per motor revolution)

0.351deg (6.1359mrad)

