



Hub motor
GP38B / GP66D Series

Data Sheet

Hub Motor GP38B-01

Motor Type : BLDC motor with built-in gearbox and brake

Motor Diameter : 150mm (6 Inch) / 200mm (8 Inch)
(Chloroprene rubber wheel)

Voltage : 24 - 48V DC

Rated Speed : 141rpm

Rated Input Power : 200 - 400W

Rated Torque : 110kg-cm [95.5 lb-in]

Gear Ratio : 17:1 or 24:1

Rated Load Weight : 100kg - 250kg

Wheel Speed : 3 - 6km/h

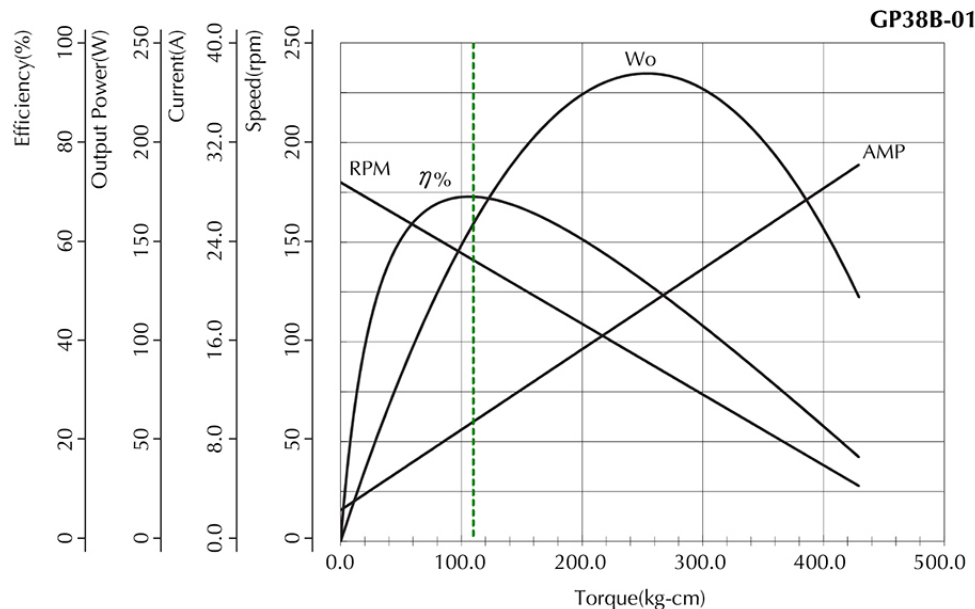
Weight : About 3kg

Typical Application : Scooter / Wheelchair / Automatic Guided Vehicle (AGV) / Automatic Mobility Robot (AMR)

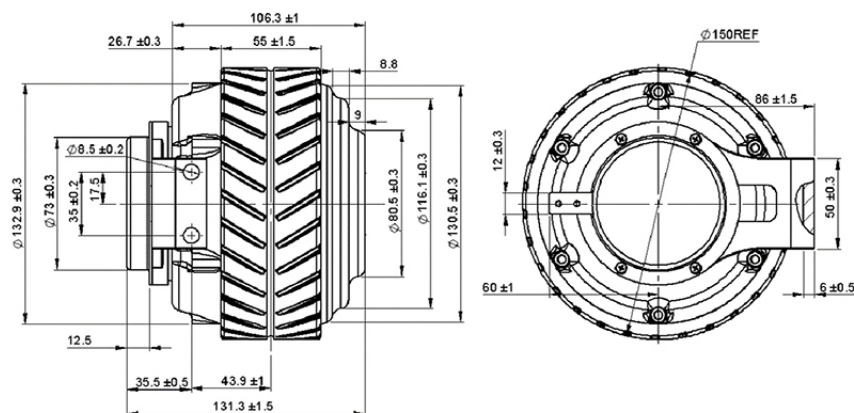
* We can develop 250mm (10 Inch) Hub Motor.



Performance Curve



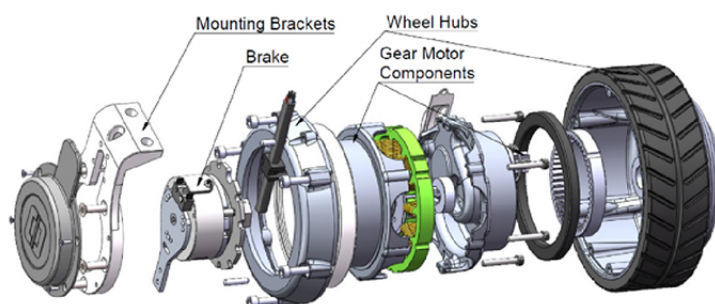
Dimension (mm[inch])



Performance (testing under room temperature)

Rated Voltage	No Load		Maximum Efficiency				Maximum Power			
	Speed	Current	Speed	Current	Torque	Output	Speed	Current	Torque	Output
(V DC)	[rpm]	[A]	[rpm]	[A]	(kg-cm)	(W)	[rpm]	[A]	(kg-cm)	(W)
24	180	2.5	141	9.6	110 [95.5]	160	90	19	260 [225.7]	241

Design Feature (GP38B-01)



- The overall structure adopts integrated design that include motor gearbox part, brake part and external rotor hub part.
- Motor with inner armature, two-stage gear transmission with big gear ratio for lower noise level (compare to planetary gear system).
- The gear transmission adopts two-stages coaxial design that the input gear and output gear center are on the same axis.
- The design of inner gear ring design is easy to processed and assembled, so its price is relatively cheap to meet the design requirements.
- The overall structure is compact and the volume is relatively small.
- The internal box part adopts a sealed design to prevent grease enter motor end, which has a separate transmission space.
- The motor structure is open which stator exposed for better heat dissipation.
- Single side installation to support customer product. It is a wide range in adaptation and very convenient for installation.
- This structure could be designed as a modular structure, just need to increase the thickness and keep same diameter for different powers as series of products.

Hub Motor Series



	GP38B-01	GP38B-02	GP66D-01	GP66D-02	GP66D-03
Motor Diameter	150mm (6 Inch) / 200mm (8 Inch)	250mm (10 Inch)	250mm (10 Inch)	250mm (10 Inch)	250mm (10 Inch)
Voltage	24 - 48V DC	24 - 48V DC	24 - 48V DC	24 - 48V DC	24 - 48V DC
Rated Speed	141rpm	121rpm	120-140rpm	110-150rpm	110-230rpm
Rated Output Power	200 - 400W	200 - 400W	600 - 1,000W	800 - 1,200W	600 - 1,000W
Rated Torque	110kg-cm [95.5lb-in]	245kg-cm [212lb-in]	397.68kg-cm [345.17lb-in]	712.06kg-cm [618.04lb-in]	480.31-508.70kg-cm [416.89-441.53lb-in]
Gear Ratio	17:1 or 24:1	17:1 or 24:1	18:1	16.7:1	14.4:1
Rated Load Weight	100kg - 250kg	100kg - 250kg	360kg - 800kg	800kg - 1000kg	360kg - 800kg
Wheel Speed	3-6 km/h	3-6 km/h	5.5-6.5 km/h	5.5-6.5 km/h	5.5-10.5 km/h
Typical Application	Scooter, Wheelchair, Automatic Guided Vehicle (AGV), Automatic Mobility Robot (AMR)		Scooter, Shopping Cart, Cleaning Cart, Floor Cleaner		

*All information, specification and photos are for references only



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