



PRODUCT CATALOG

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COMPANY INTRODUCTION



Suzhou Shengyi Motor Co., Ltd. was established in 2003, a leading manufacturer specialized in the research, development, production, sales and service of the electric bicycle motor. The products are popular all over the world.

Passed CE, ISO9000, ROHS and 3C certification.

Our head office and development center and manufactory located in Suzhou China, close to Shanghai. At the meanwhile, we have sales-office in Tianjin China, production manufactory in Taiwan, after-sale service center in germany...thus shorten the distance with customers and provide excellent service.

We will keep going further with our mission, innovation, creation for your better life.



MAIN PRODUCTS

SHENGYI focus on the development and production of center & front & rear e-bike motor and its complete system.

ABOUT SHENGYI

The corporation has passed CE, ISO9000, ROHS and 3C certification.

SHENGYI PHILOSOPHY

For more than 17 years, SHENGYI has scrupulously abided by rules of market, and provided the worldwide clients with best products and services.

PATENT AND CERTIFICATE



CMT07

Small size for decent shape
High precision torque sensor



MOTOR ADVANTAGES

- 1、Ligth weight 3.3kg
- 2、 Small size
- 3、 85N.m max.torque
- 4、 Smoothy and quiet

MAIN PARAMETER

 Rated voltage 36V	 Rated power 230W~250W	 Max.torque 85N.m	 Speed 25km/h	 Gear speed ratio 1 : 10.375
 Numbers of magnet 14	 Efficiency ≥80%	 Noise geade(db) ≤55dB	 Working tem range -20℃~45℃	 Weight 3.3Kg

CMT03P

More power.
 More assistance.
 MTB e-bike
 120N.m max torque



MAIN PARAMETER

 Application Mid motor	 Model CMT03P	 E-bike model Gravel / MTB	 HMI UART	 Wheel size (inch) 20"-29.5"	 Construction Two-stage gearing
 Reduction gear ratio 1 : 31.11	 Rated voltage (dcv) 36V~48V	 N0 (rpm) 100	 Rated power (w) 350	 Nt (rpm) 90	 Max torque (N.m) 120
 Efficiency (%) ≥80	 Pedal sensor Torque	 Color Black	 Weight (kg) 3.5	 Noise grade (db) <55	 Operating temperature -20~45
 Walk assistance Y	 E-brake Y	 Rear light 6V/3W	 Certifications EN15194	 Tests IP65	

CMT03

- High precision torque sensor
- Modular structure
- Customizable motor case



MOTOR ADVANTAGES

- 1、 Powerful, strong climbing capability, smoothly
- 2、 Integrated controller & high precision torque sensor
- 3、 Modular installation
- 4、 Light weigh 3.5 kg; customizable motor case
- 5、 Forging bracket for connecting motor to frame
- 6、 High efficiency, comfortable riding feel, powerful, low consumption and environmental
- 7、 Safe, reliable and excellent performance.

MAIN PARAMETER

					
Rated voltage	Rated power	Max power	Max.torque	Power assistance ratio	Speed
36V~48V	250W	500W	110N.m	1 : 3~3 : 1	25km/h
					
Gear speed ratio	Numbers of magnet	Efficiency	Noise geade(db)	Working tem range	Weight
1 : 31.11	16	≥80%	≤55dB	-20℃~45 ℃	3.5Kg

CMT01N

TORQUE SENSOR



MOTOR ADVANTAGES:

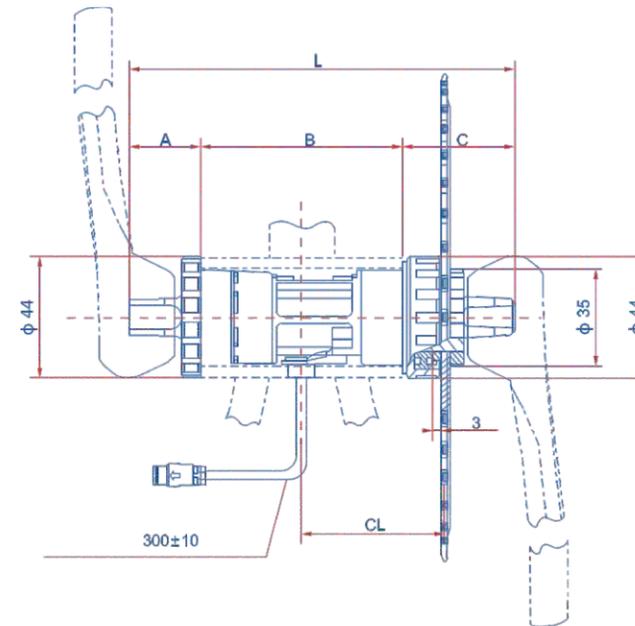
- 1、 Powerful, strong climbing capability
- 2、 Internal controller and high precision torque sensor
- 3、 Compact size and decent shape, weigh about 4.6 kg
- 4、 Special installation bracket connects with frame
- 5、 High efficiency, comfortable ride feeling, powerful, low consumption and environmental
- 6、 Safe, reliable and excellent performance

MAIN PARAMETER:

				
Rated voltage	Rated power	Max.torque	Power assistance ratio	Speed
36V~48V	500W	90N.m	1 : 3~ 3 : 1	25km/h

TSB1

TORQUE SENSOR



L	A(mm)	B(mm)	C(mm)	CL(mm)
140	26	73(68)	41	52.5
167	26	100	41	65.5

Remarks (when using 68 tee, add a 2.5mm adjusting gasket on both sides)

MAIN PARAMETER:

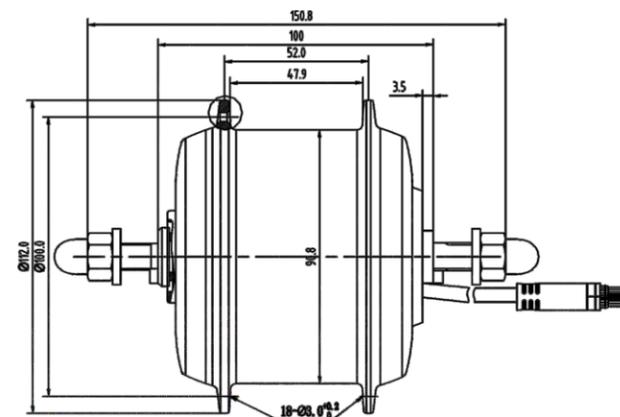
-  **Input voltage(v)**
4.8V~5.2V
-  **Working current**
35mA Max
-  **Input voltage ripple noise**
<50dB
-  **Signal output 0 point voltage**
0.47V~0.5V
-  **Torque signal output voltage**
0.5V~3V
-  **Signal output ratio**
30mv/N.m
-  **Torque measurement range**
0~70N.m
-  **Maximum torque**
400N.m
-  **The number of pedal in one circle(pulse)**
16 pulse of each side
-  **Weight(kg)**
0.386kg (without chainwheel)
-  **Bicycle five-port**
68/73/100
-  **Working temperature**
(-25°C~85°C)
-  **Detection torque way**
Strain gage
-  **Protection level**
IPX7
-  **Torque measurement accuracy**
2%
-  **Certification**
ISO 13849(2015), EN15194(2017)

DGWQ 1

Small light front motor(Road bike, Folding bike)



Front Drive Motor
CITY BIKE ▶



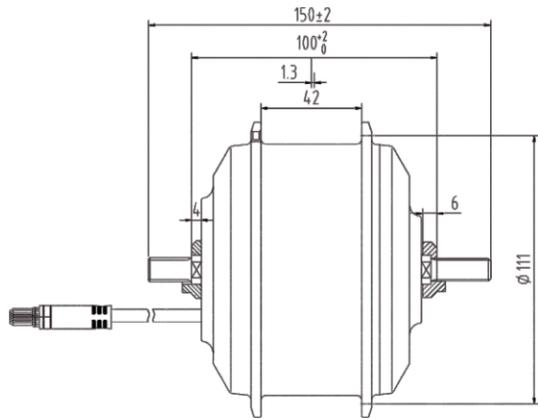
MAIN PARAMETER:

 Driving position Front	 Wheel size 16in-24in	 Spoke 13G,36holes hole diameter 3.2-3.4mm	 Rated power 180W~230W	 Rated voltage 24V~36V	 Max.torque ≥20N.m
 Efficiency ≥80%	 Cable side Right	 Number of magnet 14	 Reduction gear ratio 1:11.66	 Installation dimension 100mm	 Inside speed sensor 1~6
 Hall sensor With/Without	 Brake V-brake	 Classification of waterproof IPX5	 Weight 2.0Kg		



DGW10F

Small size brushless hub motor front

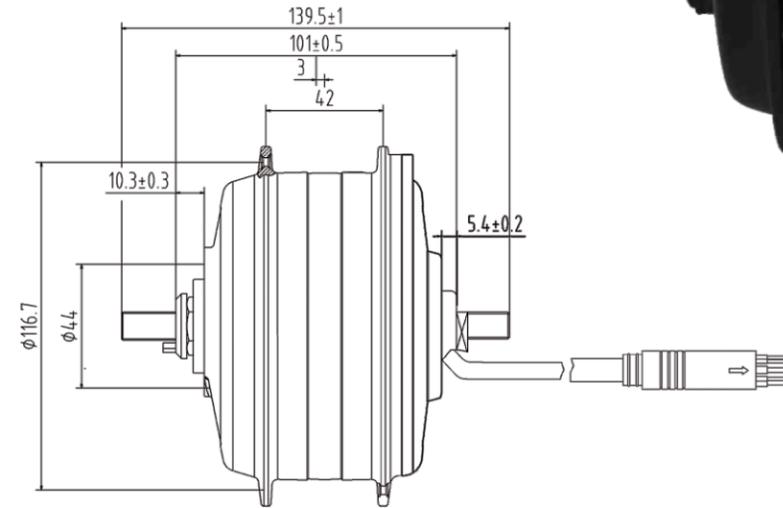


MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 20holes/36holes 12G/13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥35N.m
Efficiency ≥80%	Cable side Left	Number of magnet 16	Reduction gear ratio 1:6.28	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake V-brake	Classification of waterproof IPX5	Weight 2.2Kg		

DGW23ND

Front drive small size brushless hub motor (City bike)



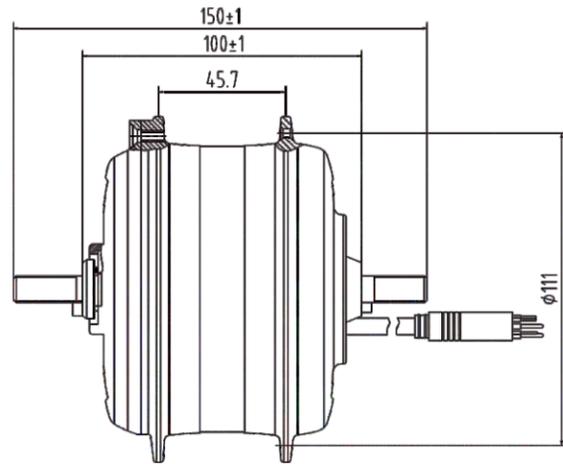
MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~300W	Rated voltage 36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16	Reduction gear ratio 1:7.5	Installation dimension 101mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake Disc brake/v-brake	Classification of waterproof IPX5	Weight 2.4Kg		

DGW12NM

Inner Rotor

Front motor, high reduction gear ratio



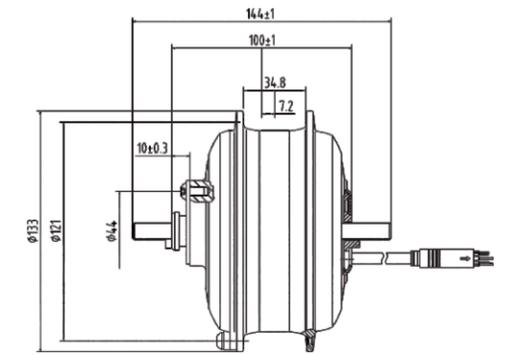
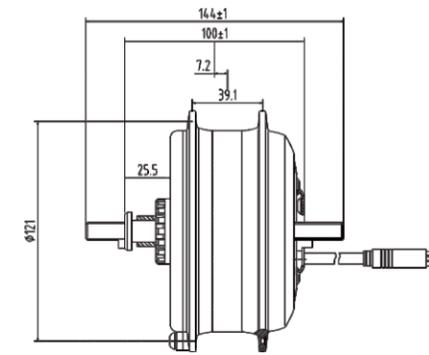
MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16	Reduction gear ratio 1:11.66	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake V-brake	Classification of waterproof IPX5	Weight 2.0Kg		

DGW12NR, 12ND

Inner Rotor

Small, light weight brushless hub motor (Roller/Disc brake)

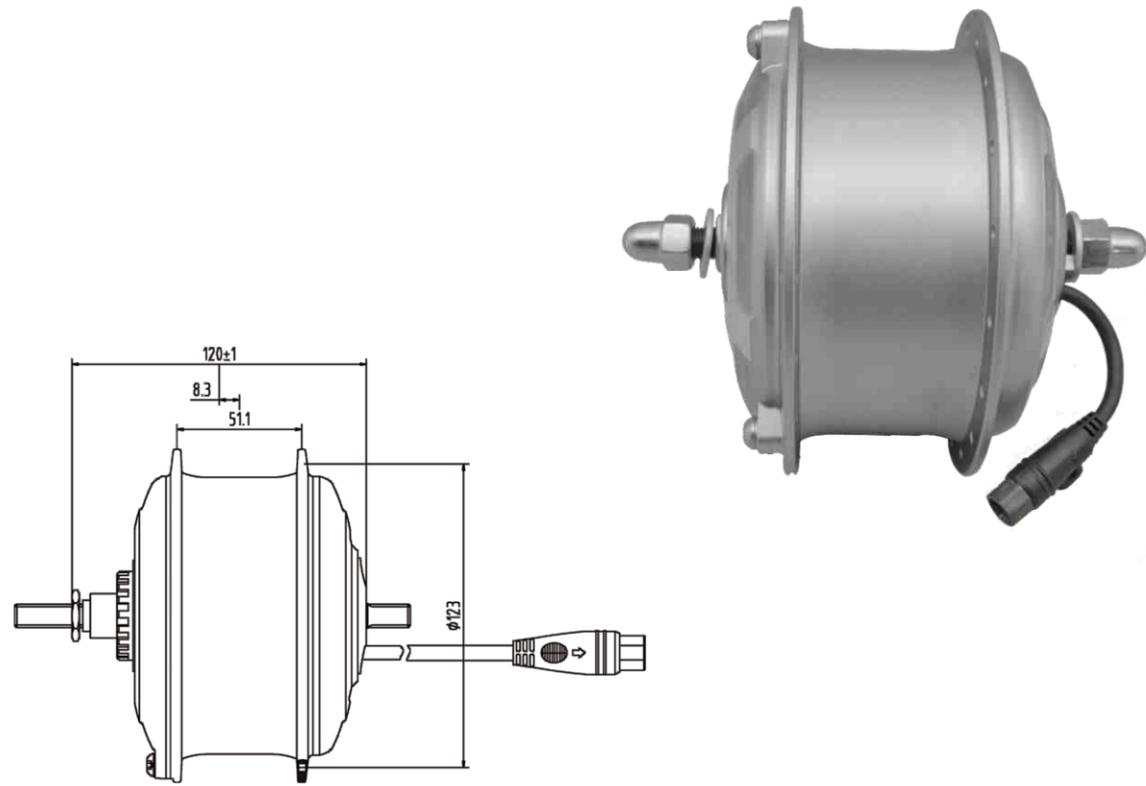


MAIN PARAMETER:

Driving position Front	Wheel size 20in-28in	Spoke 36holes 13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16	Reduction gear ratio 1:12	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake Roller-brake Disc-brake	Classification of waterproof IPX5	Weight 1.95Kg		

DGW11

Small size brushless front hub (For Giant)



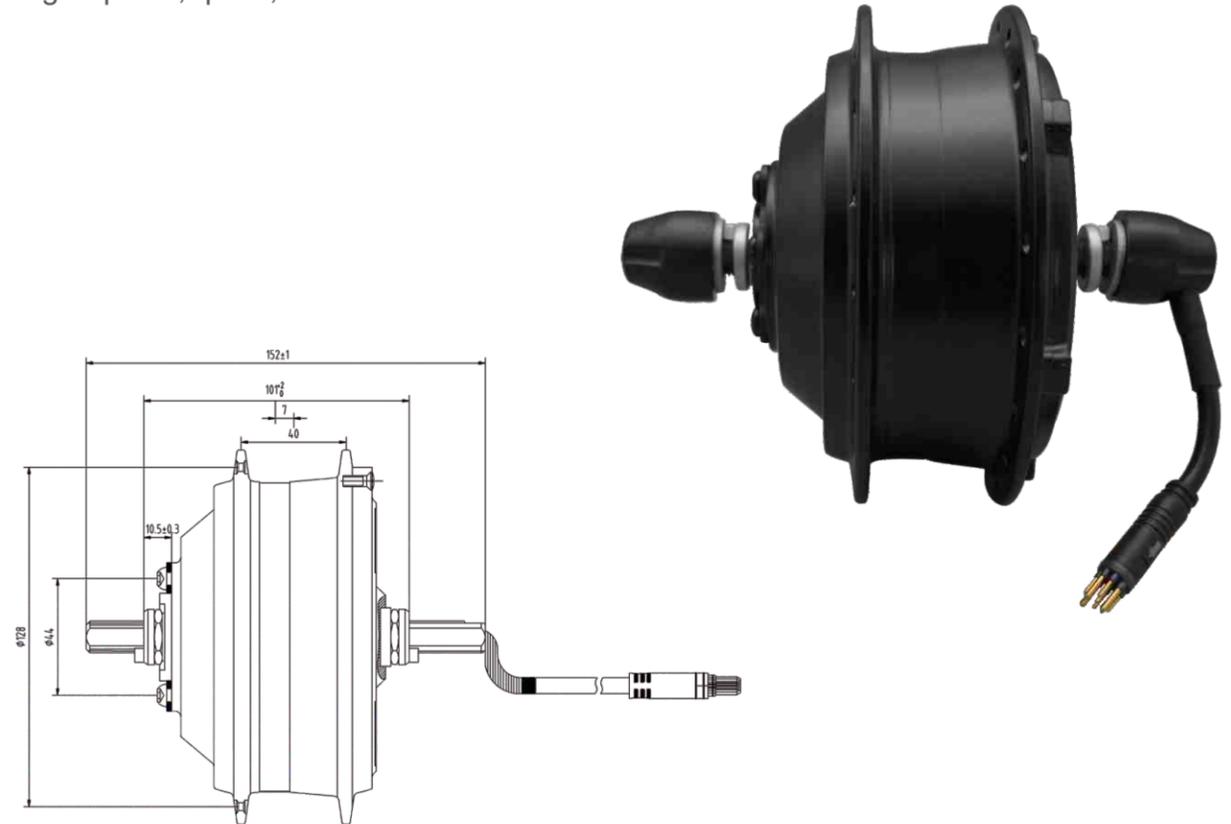
MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16	Reduction gear ratio 1:8	Installation dimension 120mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake Roller-brake	Classification of waterproof IPX5	Weight 2.3Kg		

DGWH1

Helical gear

High speed, quiet, brushless hub motor front

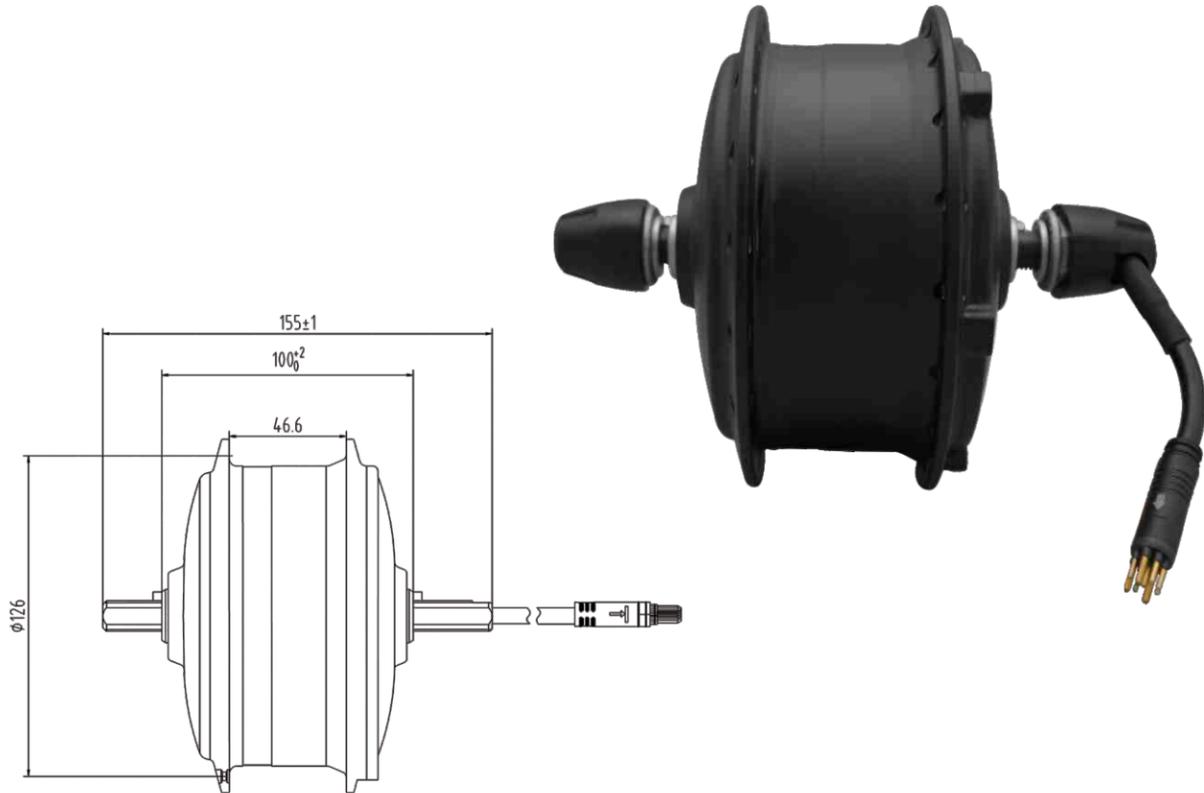


MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~300W	Rated voltage 36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 20	Reduction gear ratio 1:5.2	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake Disc brake/V-brake	Classification of waterproof IPX5	Weight 2.8Kg		

DGWX7

High speed brushless motor hub front

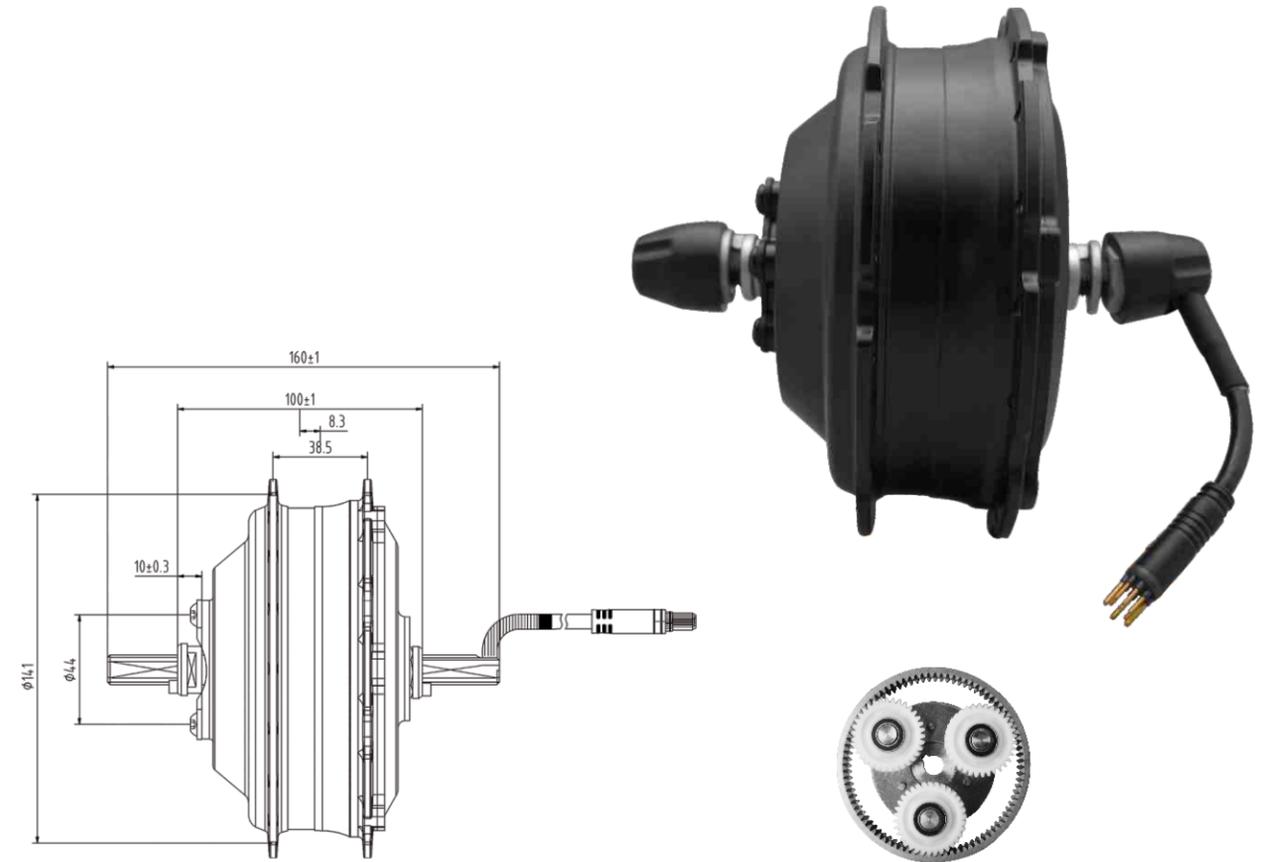


MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W	Rated voltage 24V~36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16/20	Reduction gear ratio 1:4.3	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake V-brake	Classification of waterproof IPX5	Weight 3.4Kg		

DGWX1

High speed brushless motor front (Disc brake)



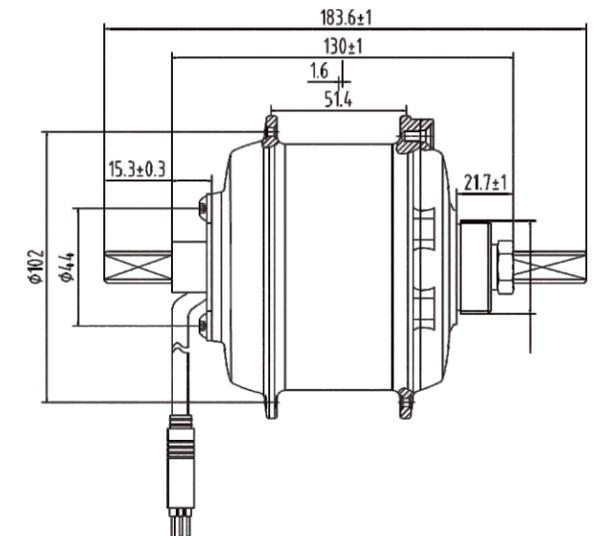
Helical bevel gear

MAIN PARAMETER:

Driving position Front	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~350W	Rated voltage 36V~48V	Max.torque ≥50N.m
Efficiency ≥80%	Cable side Right	Number of magnet 30	Reduction gear ratio 1:4.83	Installation dimension 100mm	Inside speed sensor 1~6
Hall sensor With/Without	Brake Disc-brake V-brake	Classification of waterproof IPX5	Weight 3.3Kg		

DGWQSS

Rear motor small size (Screw freewheel)



Rear Drive Motor
CITY BIKE ▶

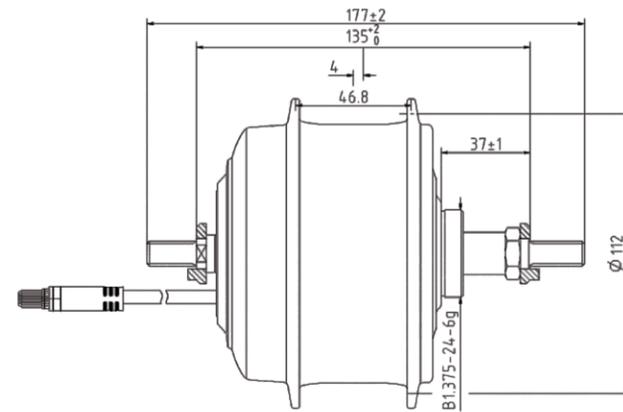
MAIN PARAMETER:

Driving position Rear	Wheel size 16in-24in	Spoke 36holes 13G	Rated power 180W~230W	Rated voltage 24V~36V	Max.torque ≥30N.m
Efficiency ≥80%	Cable side Left	Number of magnet 14	Reduction gear ratio 1:11.66	Installation dimension 130mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Single speed	Brake Disc-brake	Classification of waterproof IPX5	Weight 2.0Kg	



DGW10R

Small size brushless motor rear (Screw freewheel)

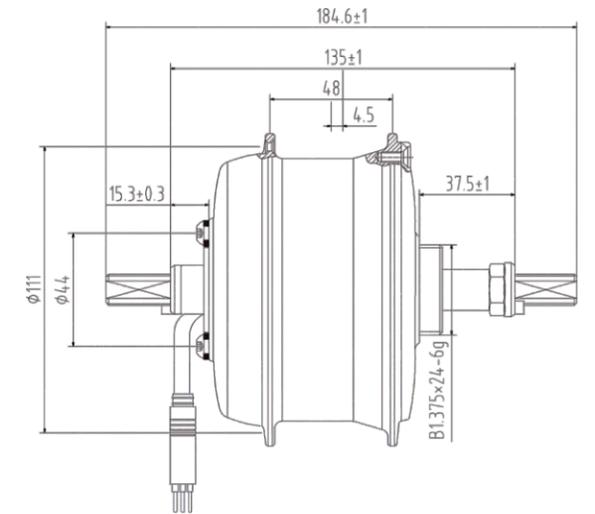


MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥35N.m
Efficiency ≥80%	Cable side Left	Number of magnet 16	Reduction gear ratio 1:6.28	Installation dimension 135mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Screw 6-7S	Brake V-brake	Classification of waterproof IPX5	Weight 2.2Kg	

DGW12MS

Small size rear hubmotor (Disc brake, Screw freewheel)



MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥35N.m
Efficiency ≥80%	Cable side Left	Number of magnet 16	Reduction gear ratio 1:11.66	Installation dimension 135mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Screw 6-7S	Brake Disc-brake	Classification of waterproof IPX5	Weight 2.0Kg	

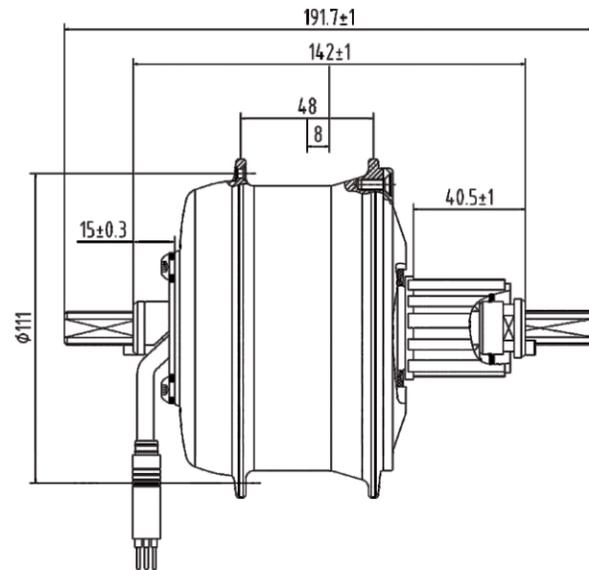
DGW12MC

Small size rear hubmotor (Disc brake, Cassette freewheel)

Inner Rotor

ADVANTAGE

- 1、lighter , low noise
- 2、cassette freewheel (8-10speed)
- 3、ratio:1:11.6
- 4、more smoothly

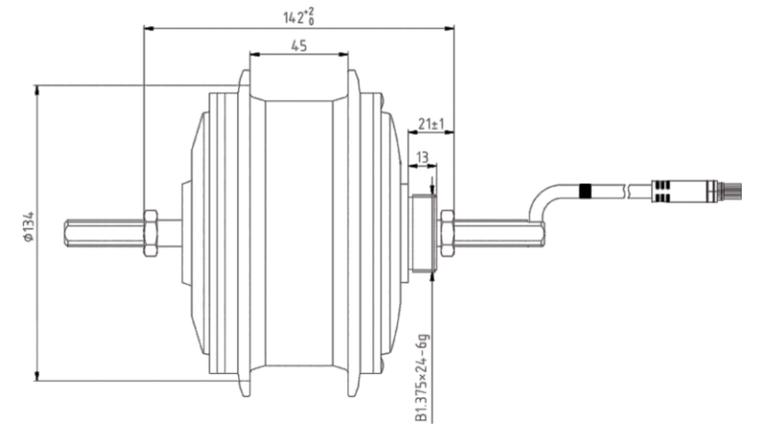


MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 180W~250W	Rated voltage 24V~36V	Max.torque ≥35N.m
Efficiency ≥80%	Cable side Left	Number of magnet 16	Reduction gear ratio 1:11.66	Installation dimension 142mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Cassette 8-10S	Brake Disc-brake	Classification of waterproof IPX5	Weight 2.2Kg	

DGW07C-RA

High speed brushless motor hub (Single/Screw freewheel)

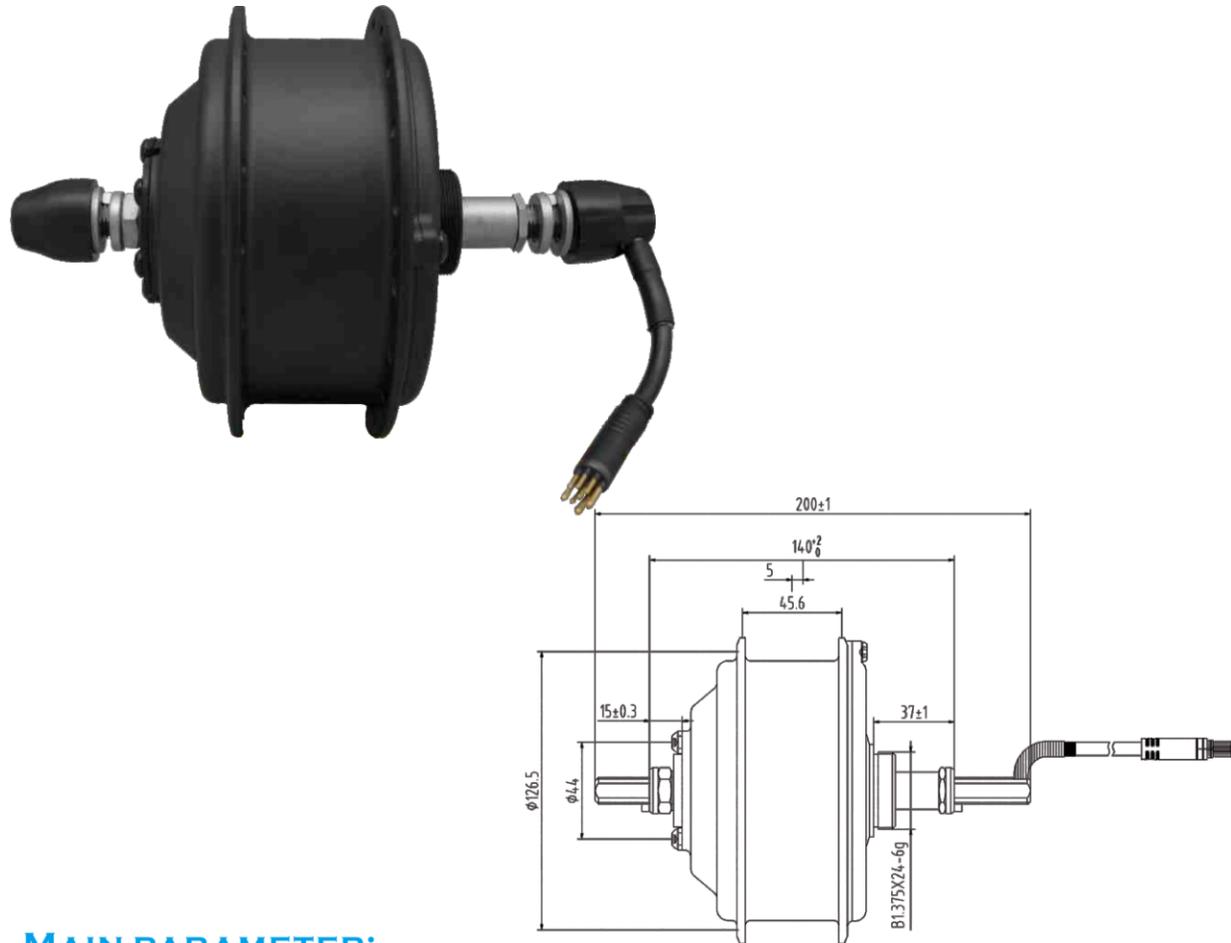


MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~300W	Rated voltage 24V~36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16,20	Reduction gear ratio 1:4.3	Installation dimension 142mm~165mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Single/Screw 6-7S	Brake V-brake	Classification of waterproof IPX5	Weight 3.4Kg	

DGW07C-MD

High speed brushless motor hub (Disc brake, Screw freewheel)

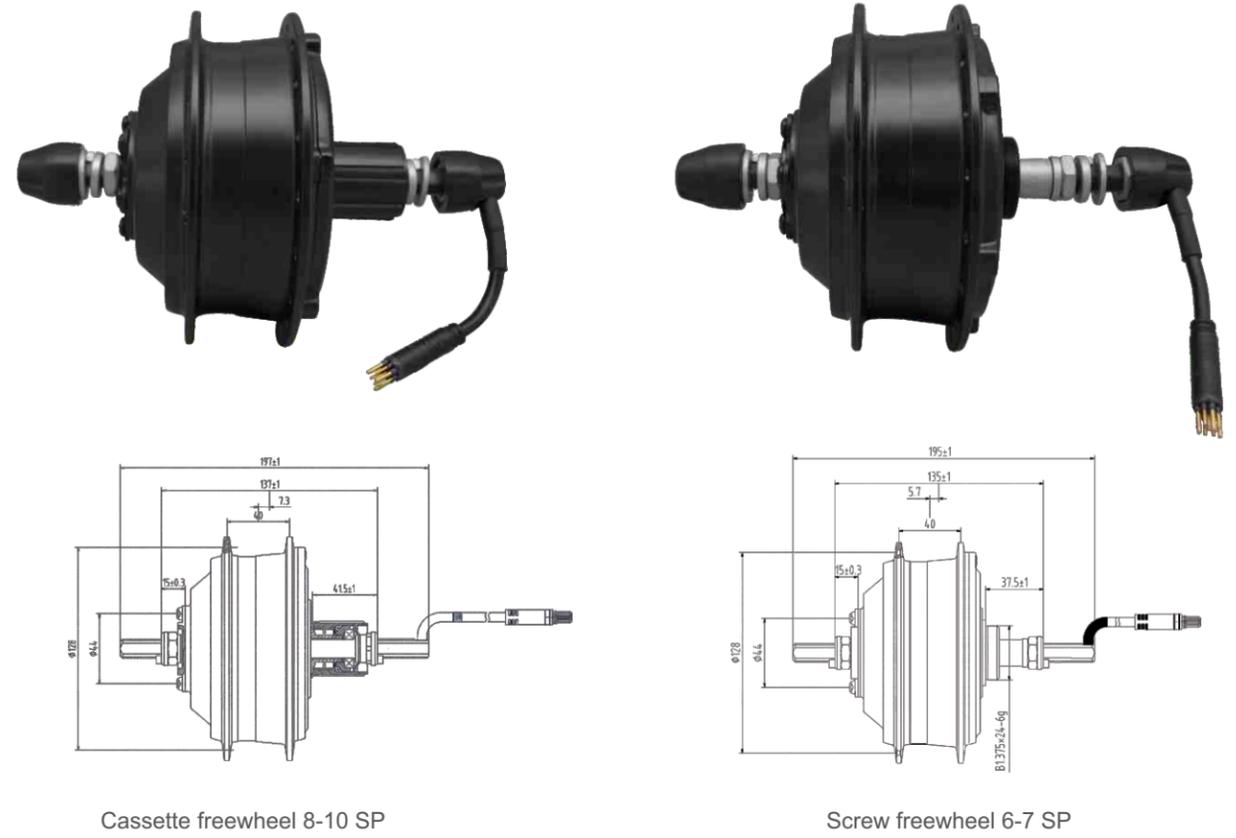


MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~300W	Rated voltage 24V~36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 16,20	Reduction gear ratio 1:4.3	Installation dimension 140mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Screw 6-7S	Brake Disc-brake	Classification of waterproof IPX5	Weight 3.4Kg	

DGWH2C , DGWH2S

High speed brushless motor rear with helical gear
(Disc-brake, Cassette/ Screw freewheel)



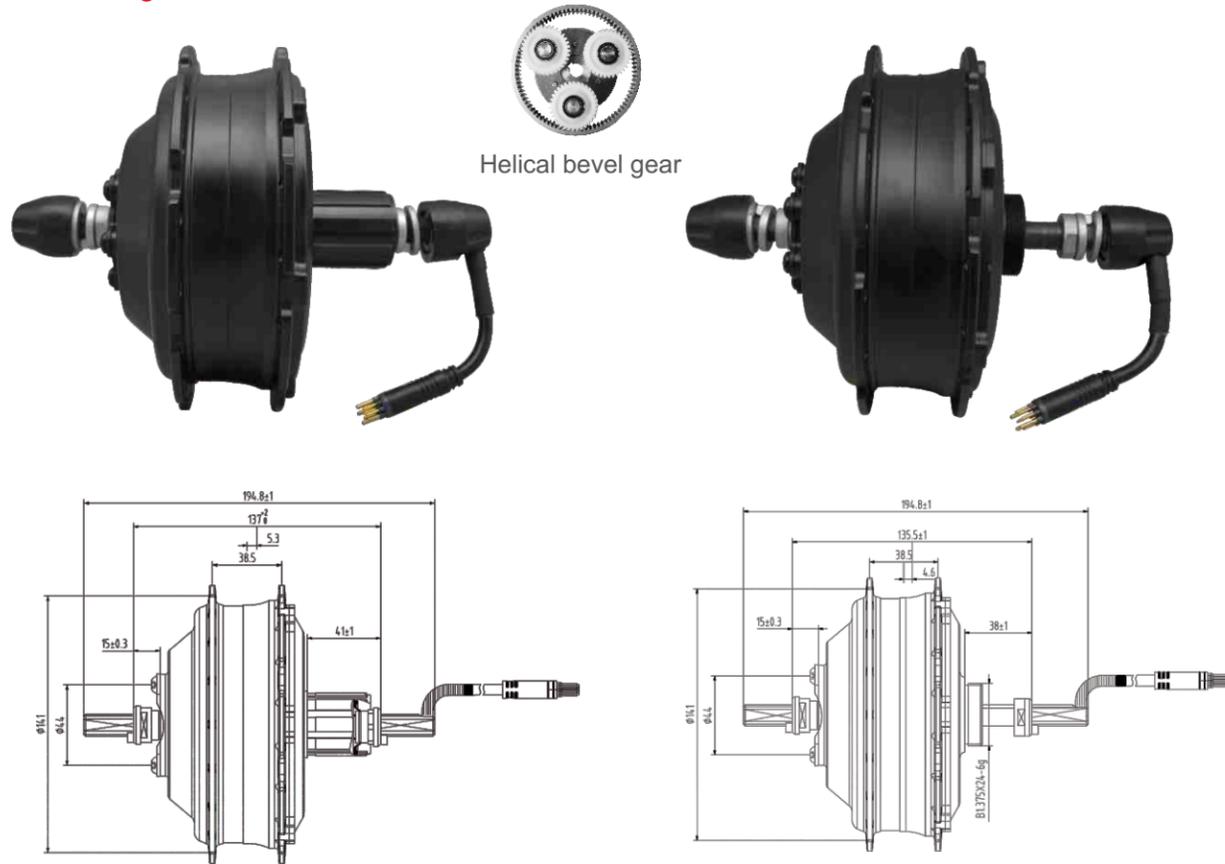
MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~300W	Rated voltage 36V~48V	Max.torque ≥40N.m
Efficiency ≥80%	Cable side Right	Number of magnet 20	Reduction gear ratio 1:5.2	Installation dimension 135mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Cassette 8-10S Screw 6-7S	Brake Disc-brake V-brake	Classification of waterproof IPX5	Weight 2.9Kg	

DGWX2C, DGWX2S

MTB motor rear with disc-brake, Cassette /Screw freewheel

Helical gear



Rear Drive Motor
MTB ▶

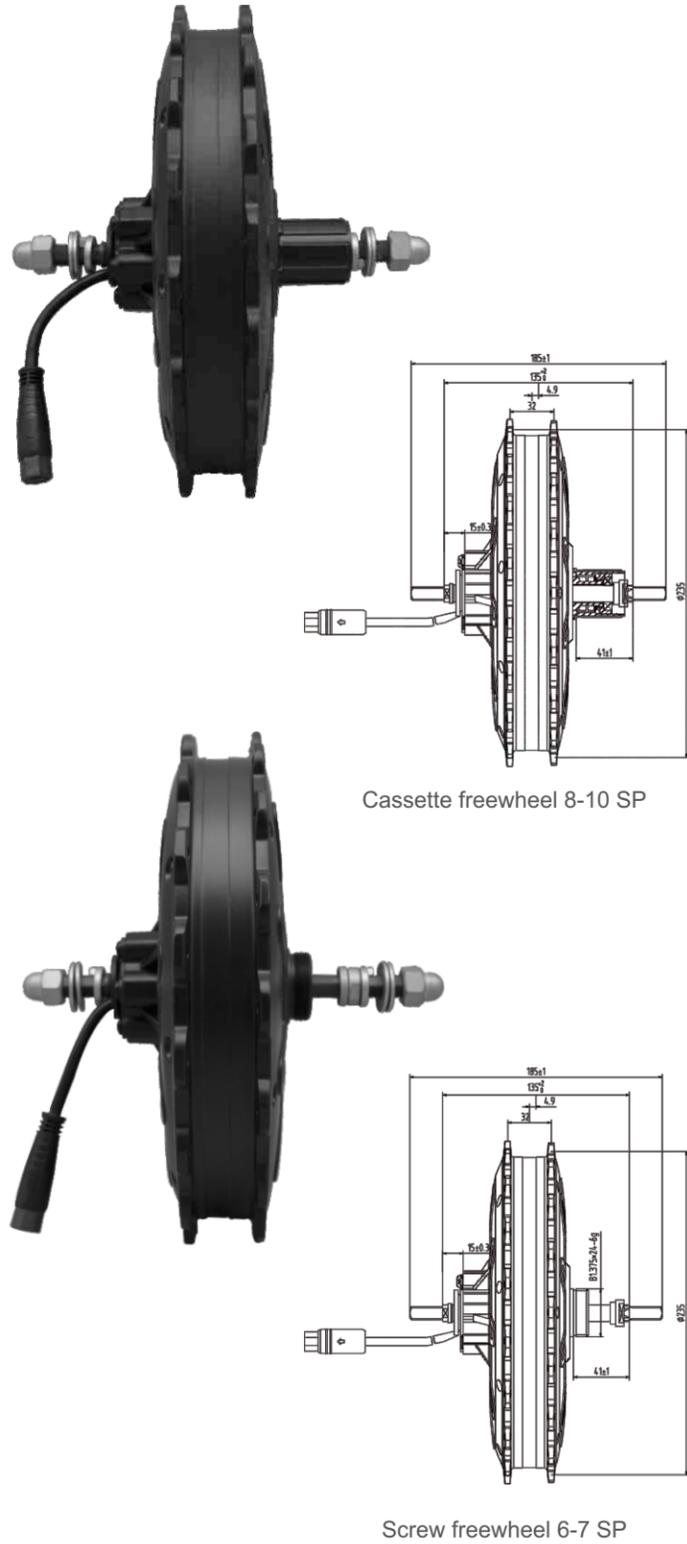
MAIN PARAMETER:

Driving position Rear	Wheel size 16in-28in	Spoke 36holes 12G/13G	Rated power 250W~350W	Rated voltage 36V~48V	Max.torque ≥50N.m
Efficiency ≥80%	Cable side Right	Number of magnet 30	Reduction gear ratio 1:4.83	Installation dimension 135mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Cassette 10-11S Screw 6-7S	Brake Disc-brake V-brake	Classification of waterproof IPX5	Weight 3.6Kg	



DGW09NC, DGW09NS

High power direct motor (Cassette/Screw freewheel)



Cassette freewheel 8-10 SP

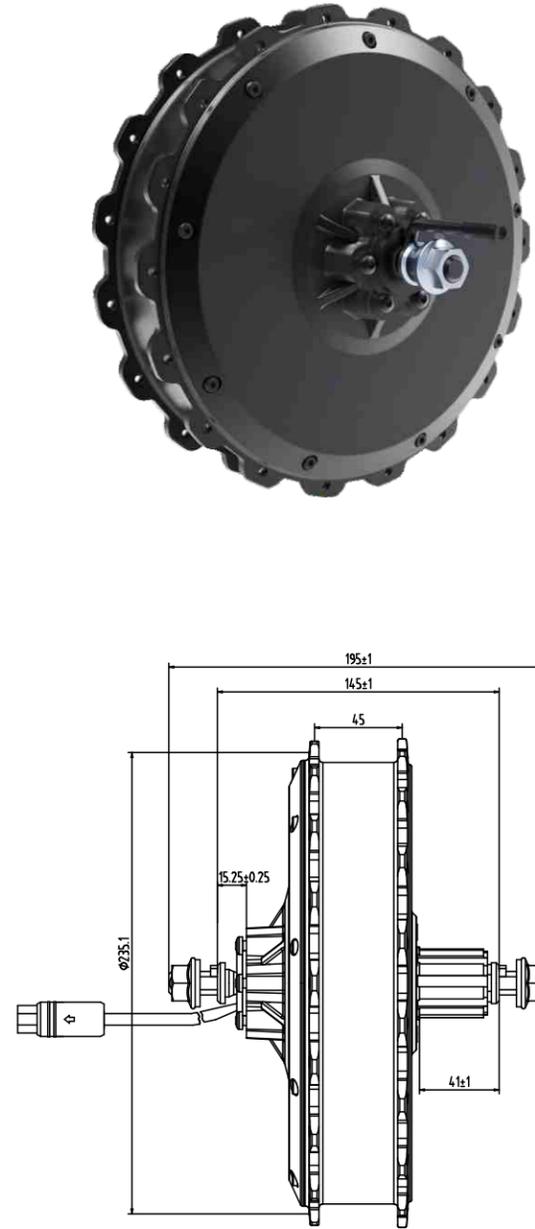
Screw freewheel 6-7 SP

MAIN PARAMETER:

-  **Driving position**
Rear
-  **Wheel size**
24in-29in
-  **Spoke**
36holes 12G/13G
-  **Rated power**
350W~500W
-  **Rated voltage**
36V~48V
-  **Max.torque**
45N.m(48V,26in,38KM,350W,15A)
-  **Efficiency**
≥80%
-  **Cable side**
Left
-  **Number of magnet**
46
-  **Reduction gear ratio**
Direct drive
-  **Installation dimension**
135mm
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Cassette 8-10s/Screw 6-7s
-  **Brake**
Disc-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
4.9Kg

DGW29

High power direct motor (Cassette/Screw freewheel)



MAIN PARAMETER:

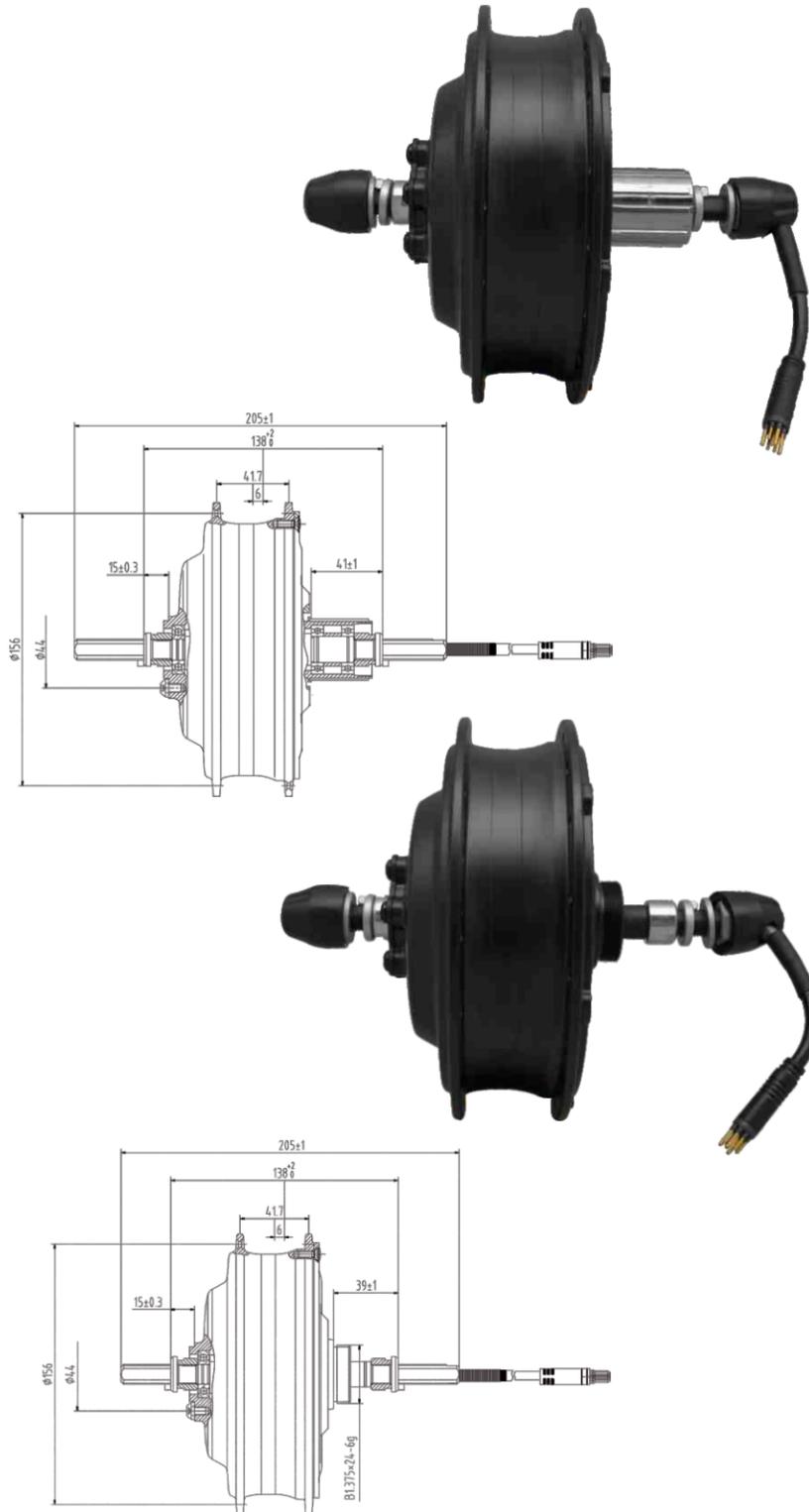
-  **Driving position**
Rear
-  **Wheel size**
24in-29in
-  **Spoke**
36holes 12G/13G
-  **Rated power**
750W
-  **Rated voltage**
36V~48V
-  **Max.torque**
55N.m(48V,26in,38KM,350W,15A)
-  **Efficiency**
≥80%
-  **Cable side**
Left
-  **Number of magnet**
46
-  **Reduction gear ratio**
Direct drive
-  **Installation dimension**
135mm
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Cassette 8-10s/Screw 6-7s
-  **Brake**
Disc-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
5.2Kg

DGW22C, DGW22S

High power rear motor (Disc-brake, Cassette /Screw freewheel)

MAIN PARAMETER:

-  **Driving position**
Rear
-  **Wheel size**
20in-28in
-  **Spoke**
36holes 12G
-  **Rated power**
350W~500W
-  **Rated voltage**
36V~48V
-  **Max.torque**
≥50N.m
-  **Efficiency**
≥80%
-  **Cable side**
Right
-  **Number of magnet**
16
-  **Reduction gear ratio**
1:5.3
-  **Installation dimension**
138mm
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Cassette 8-10s/Screw 6-7s
-  **Brake**
Disc-brake/V-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
3.9Kg

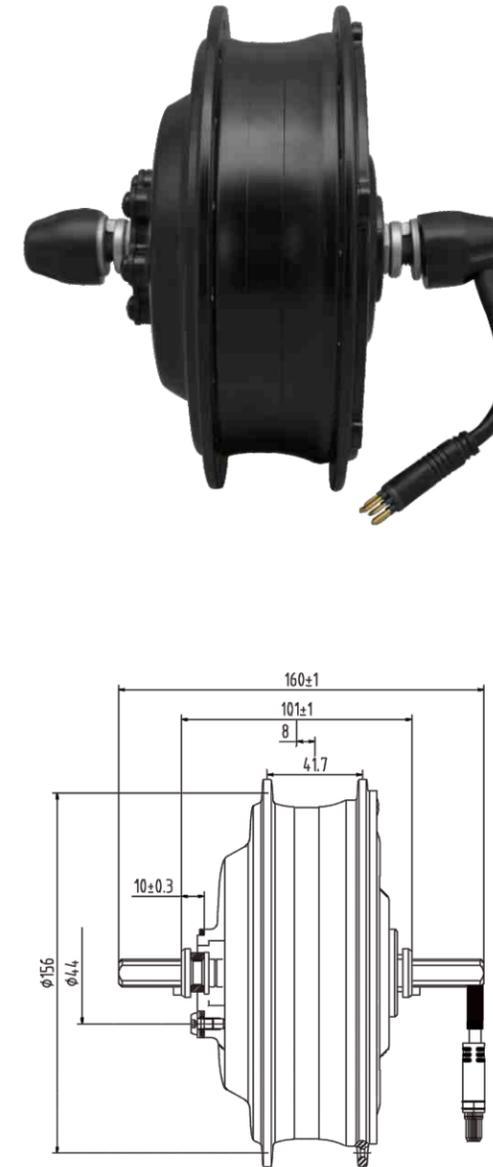


DGW22F

High power brushless motor hub

MAIN PARAMETER:

-  **Driving position**
Front
-  **Wheel size**
20in-28in
-  **Spoke**
36holes 12G
-  **Rated power**
350W~500W
-  **Rated voltage**
36V~48V
-  **Max.torque**
≥50N.m
-  **Efficiency**
≥80%
-  **Cable side**
Right
-  **Number of magnet**
16
-  **Reduction gear ratio**
1:5.3
-  **Installation dimension**
100mm
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Without
-  **Brake**
Disc-brake/V-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
3.9Kg

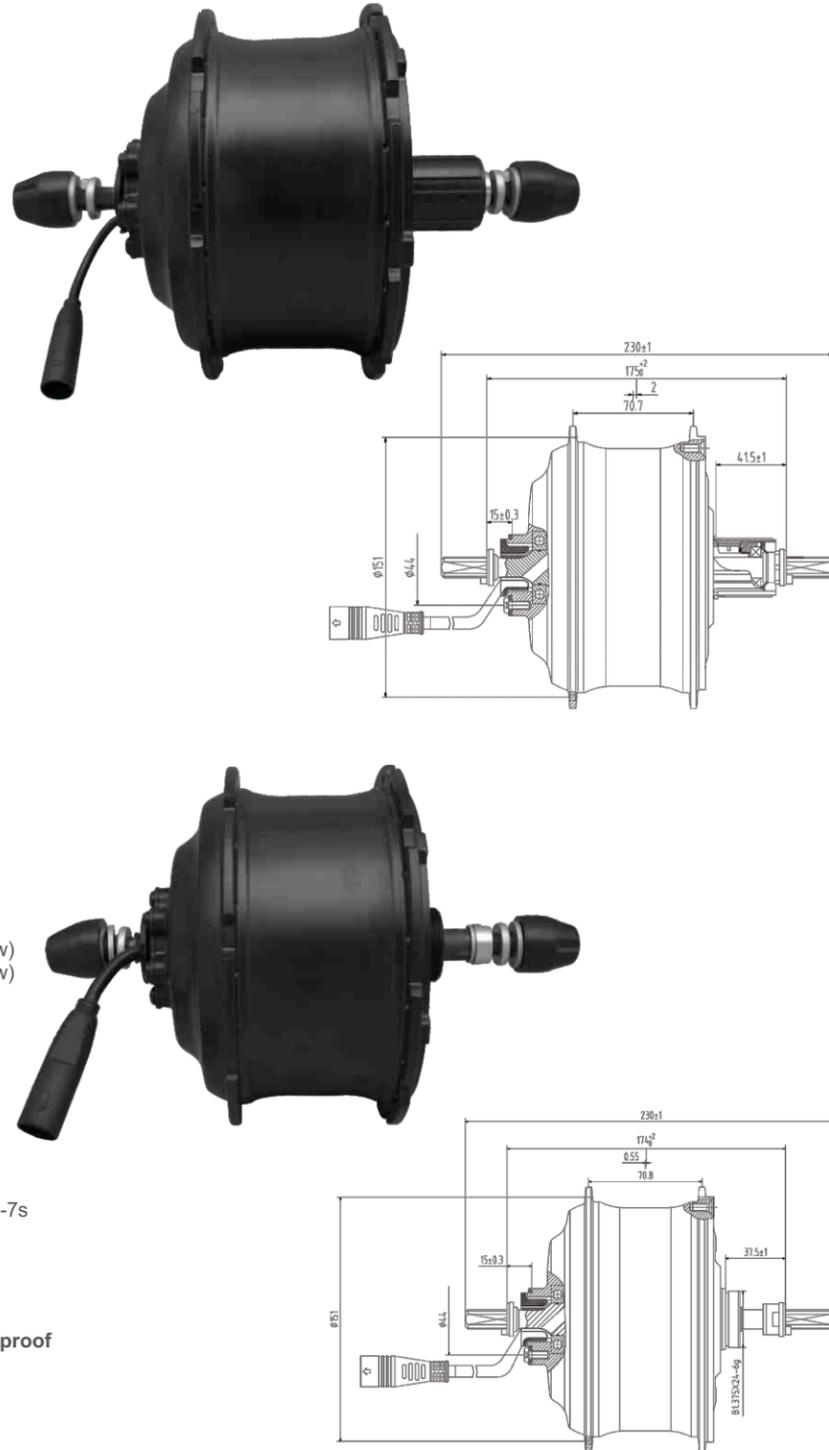


DGW25E

500W Fat bike hub motor (Cassette /Screw freewheel)

MAIN PARAMETER:

-  **Driving position**
Rear
-  **Wheel size**
20in-28in
-  **Spoke**
36holes 12G
-  **Rated power**
500W
-  **Rated voltage**
36V~48V
-  **Max.torque**
≥60N.m
-  **Efficiency**
≥80%
-  **Cable side**
Left
-  **Number of magnet**
16
-  **Reduction gear ratio**
1 : 5
-  **Installation dimension**
175mm(Cassette&Screw)
190mm(Cassette&Screw)
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Cassette 9-10s/Screw 6-7s
-  **Brake**
Disc-brake/ V-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
4.6Kg

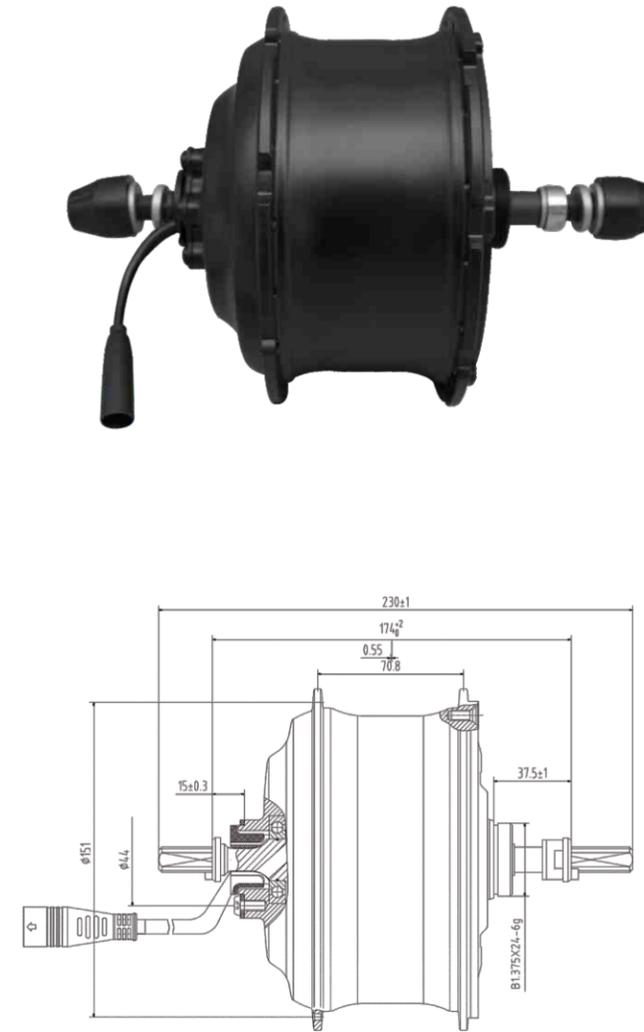


DGW25P

750W big power motor

MAIN PARAMETER:

-  **Driving position**
Rear
-  **Wheel size**
20in-28in
-  **Spoke**
36holes 12G
-  **Rated power**
750W
-  **Rated voltage**
36V~48V
-  **Max.torque**
≥90N.m
-  **Efficiency**
≥80%
-  **Cable side**
Left
-  **Number of magnet**
20
-  **Reduction gear ratio**
1:5
-  **Installation dimension**
175mm(Cassette&Screw)
190mm(Cassette)
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/Without
-  **Free wheel**
Cassette 9-10S/Screw 6-7S
-  **Brake**
Disc-brake/V-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
4.9Kg

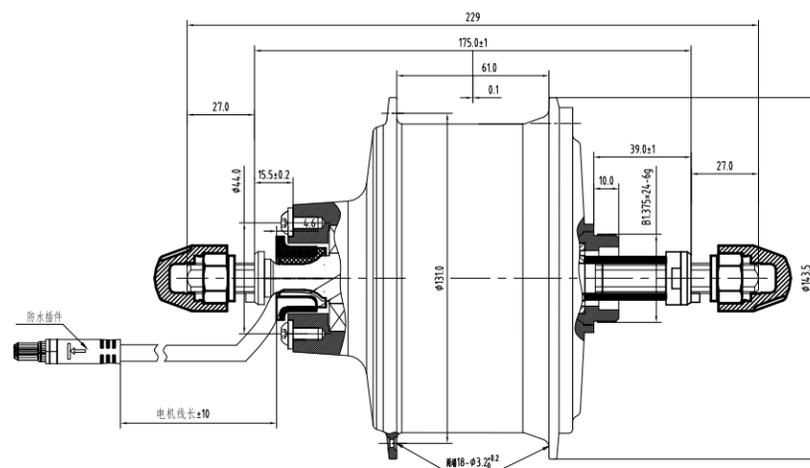


DGW25LS

Fat bike motor

MAIN PARAMETER:

-  **Driving position**
Rear
-  **Wheel size**
16in~28in
-  **Spoke**
36holes 12G
-  **Rated power**
350W
-  **Rated voltage**
36V~48V
-  **Max. torque**
40N.m
-  **Efficiency**
≥80%
-  **Cable side**
Left
-  **Number of magnet**
20
-  **Reduction gear ratio**
1 : 4.33
-  **Installation dimension**
175mm
-  **Inside speed sensor**
1~6
-  **Hall sensor**
With/ Without
-  **Free wheel**
Screw 6-7S
-  **Brake**
Disc-brake
-  **Classification of waterproof**
IPX5
-  **Weight**
3.9kg

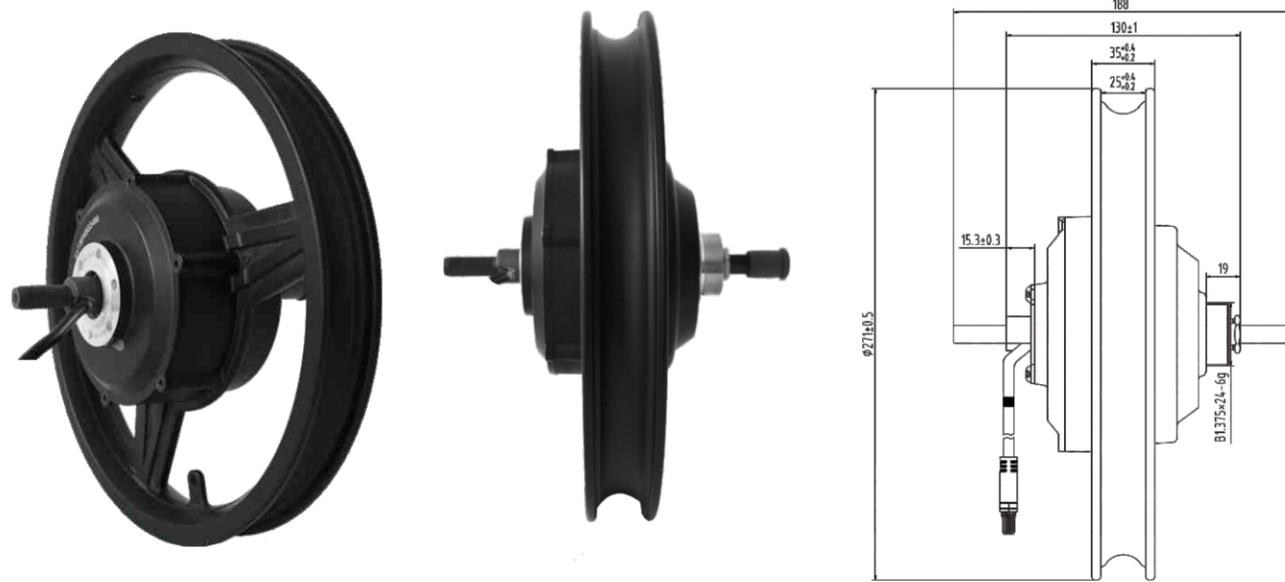


Brushless RIM Motor
CITY BIKE ▶



DGW07-R14

High speed brushless rim motor (Rear motor)

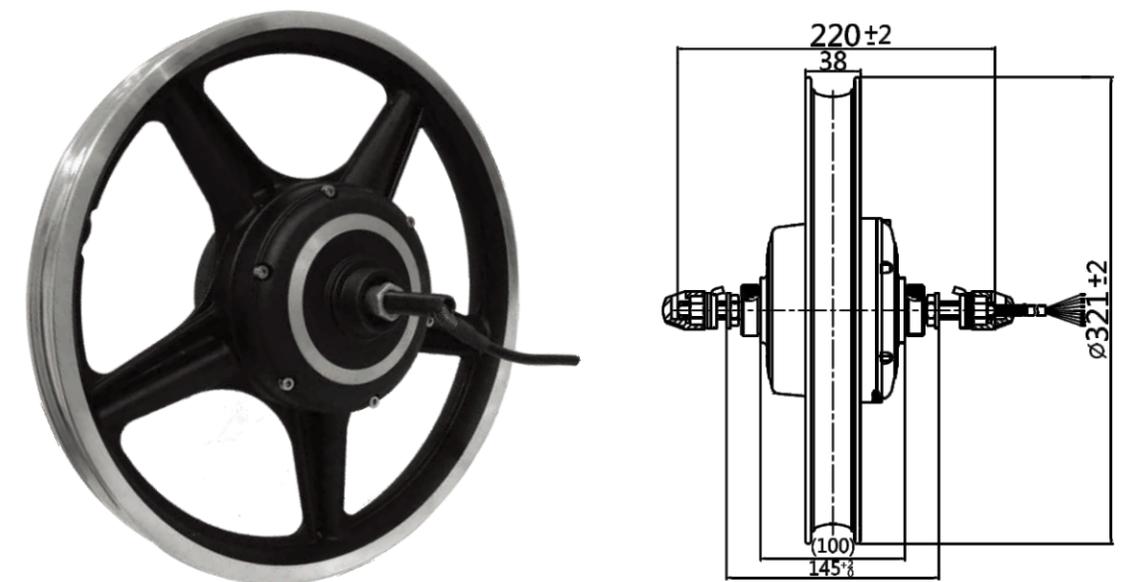


MAIN PARAMETER:

Driving position Rear	Wheel size 14in	Rated power 250W~300W	Rated voltage 24V~36V~48V	Max.torque ≥40N.m	Efficiency ≥80%
Cable side Left	Number of magnet 16,20	Reduction gear ratio 1:4.3	Installation dimension 130mm	Inside speed sensor 1~6	Hall sensor With/Without
Free wheel Screw 6-7S	Brake Disc-brake	Classification of waterproof IPX5	Weight 3.6Kg		

DGW07-R16

High speed brushless rim motor (Rear motor)

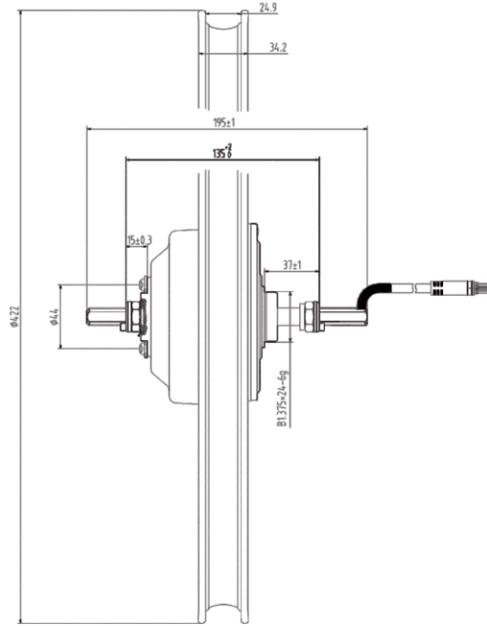


MAIN PARAMETER:

Driving position Rear	Wheel size 16in	Rated power 250W	Rated voltage 24V~36V~48V	Max.torque ≥40N.m	Efficiency ≥80%
Cable side Left	Number of magnet 16,20	Reduction gear ratio 1:4.3	Installation dimension 145mm	Inside speed sensor 1~6	Hall sensor With/Without
Free wheel Screw 6-7S	Brake V-brake	Classification of waterproof IPX5	Weight 4.0Kg		

DGWH2S-R20

High speed brushless rim motor (Rear motor)

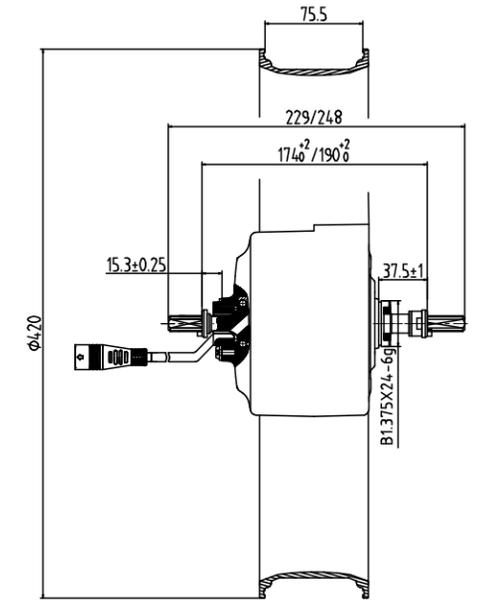


MAIN PARAMETER:

Driving position Rear	Wheel size 20in	Rated power 250W~300W	Rated voltage 36V~48V	Max.torque ≥40N.m(36V, 700C, 25km/h, 250W, current limit 15A)	Efficiency ≥80%
Cable side Right	Number of magnet 20	Reduction gear ratio 1:5.2	Installation dimension 135mm	Inside speed sensor 1~6	Hall sensor With/Without
Free wheel Screw 6-7S	Brake Disc-brake V-brake	Classification of waterproof IPX5	Weight 3.6Kg		

DGW25R

High power brushless motor hub (Disc-brake, Cassette /Screw freewheel)



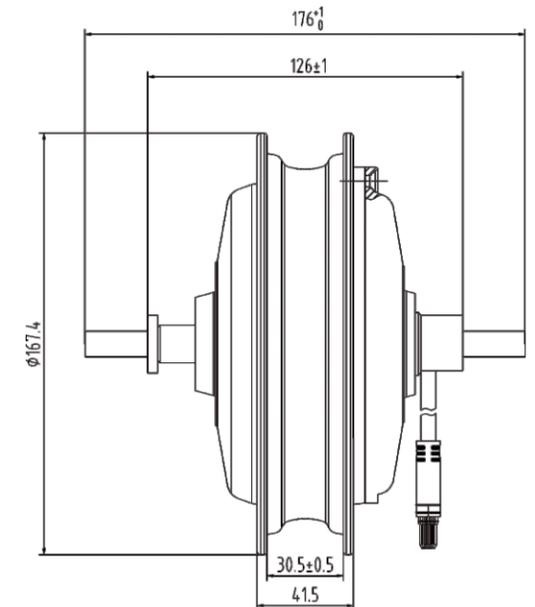
MAIN PARAMETER:

Driving position Rear	Wheel size 20in-28in	Spoke 36holes 12G	Rated power 750W	Rated voltage 36V~48V	Max.torque ≥90N.m
Efficiency ≥80%	Cable side Left	Number of magnet 20	Reduction gear ratio 1:5	Installation dimension 175mm~190mm	Inside speed sensor 1~6
Hall sensor With/Without	Free wheel Cassette 9-10S/ Screw 6-7S	Brake Disc-brake/V-brake	Classification of waterproof IPX5	Weight 4.9Kg	



DGWHB

ELECTRIC SCOOTER HUB



MAIN PARAMETER:



Driving position
Rear



Wheel size
10in



Rated power
350W



Rated voltage
36V~48V



Max.torque
≥20N.m



Efficiency
≥80%



Cable side
Right



Number of magnet
30



Installation dimension
126mm



Brake
V-brake



Classification of waterproof
IPX7



Weight
3.25Kg

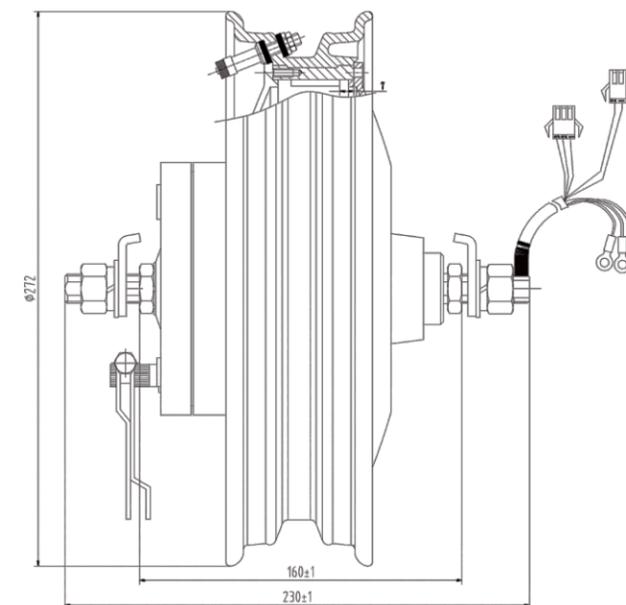


ELECTRIC MOTORCYCLE MOTOR ▶



DGW06-M

BRUSHLESS E-MOTORCYCLE MOTOR



MAIN PARAMETER:

 Driving position Rear	 Wheel size 10in	 Spoke RIM	 Rated power 500W~1000W	 Rated voltage 48V~60V	 Max. torque >50N.m
 Efficiency ≥80%	 Cable side Right	 Number of magnet 46	 Reduction gear ratio Direct drive	 Installation dimension 160mm	 Inside speed sensor No
 Hall sensor With/Without	 Brake Drum	 Classification of waterproof IPX5	 Weight 6.55Kg		