

Direct Driver Motor Product Features

DD motor (Direct Driver Motor)

It is a simple structure, high precision, high performance AC motor.

Direct drive does not require to equip with a gear box, and adopts a direct connection method, which has an excellent rigid connection between the motor and the load.

The DD motor integrates a high-resolution encoder inside, and with servo control, it will have excellent acceleration and deceleration and motion stability, can reach angular second level accuracy, and can withstand axial loads when used with radial bearings.

The hollow design is flexible for installation, wiring flexibility, and high dynamic performance characteristics, suitable for various high and low speed occasions, and widely applied in semiconductor testing and automation related industries.



High dynamic motion

Fast response capability, application in high-throughput applications like high-speed pick-and-place and on-the-flying inspection during motion.



High Position Accuracy

Direct-drive load minimizes transmission errors, achieving high position accuracy.



Low Noise and Vibration

No gears, belts, or other transmission mechanisms result in lower noise and vibration during operation.



Low Motor Maintenance Cost

Fewer components lead to lower maintenance requirements and a longer lifetime.



Diverse Application Scenarios

Widely used in visual alignment, optical inspection, precision assembly, fiber optic alignment, and other fields.



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Direct Driver Motor Series

Absolute Encoder Series



Product					
Series	GDD-M80F	GDD-M115F	GDD-M160F	GDD-M160	GDD-M220
Dimension(mm)	80*80*42	120*120*37.5	160*160*50	108*108*160	168*168*220
Continuous Torque(N · m)	0.84	1.1	4	20	95.1
Peak Torque(N · m)	2.39	5.5	12	40	285
Inertia of rotor(Kg · m ²)	2.13e-3	2.13e-3	1.02e-2	6.5e-3	2.5e-2
Repeatability(arc · sec)	± 3	± 3	± 3	± 2	± 2
Weight(Kg)	0.9	1.8	2.6	8	24
Rotor Type	Inner Rotor	Inner Rotor	Inner Rotor	Inner Rotor	Inner Rotor

Incremental Encoder Series

Product		
Series	GDD-M110F	GDD-M135F
Dimension(mm)	112*112*65	135*135*100
Continuous Torque(N · m)	4.2	15
Peak Torque(N · m)	10.5	45
Inertia of rotor(Kg · m ²)	1.5e-3	3.5e-2
Repeatability(arc · sec)	± 2	± 2
Weight(Kg)	2.6	4.5
Rotor Type	Inner Rotor	Inner Rotor