

TORQUE DENSITY



Applimotion
Motors & Actuators

Omni+ Series Motors

Pre-Engineered, High Torque
Density, Low Cogging Direct
Drive Motors

The Omni+ Series delivers minimal cogging
and high torque density, resulting in smooth
motion, lower power dissipation and
decreased temperature rise.

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Efficient and Powerful.

Pre-engineered for optimal system integration, the Omni+ Series is offered in a range of axial lengths and winding options. Large rotor ID to stator OD ratios provide thin cross-section form factors, allowing design flexibility as well as convenience for routing cables, optics, and other system elements. Standard diameters and stack lengths pair easily with strain wave gears, and motor windings pair with drive current ratings - making all models compatible with a wide range of motor drives. Frameless motor kits fit simply into geared robotic joints, direct drive rotary stages, or actuator applications for efficient utilization of space.

The Omni+ Series motors are designed to provide high torque density and ultra-low cogging in a thermally efficient package. Frameless motor kit technology provides high speeds and accelerations, with superior mechanical stiffness, reducing settling times and increasing system performance and throughput.

Features and Benefits

- High pole count, electromagnetic design delivers elite torque density and compact form factor
- Large ID to OD ratio for convenient routing of cables, optics, and other system elements
- Size compatibility with common strain wave gears and a wide range of motor drives enables easy integration
- Low cogging for accurate and smooth motion
- Custom windings and form factors available to meet application requirements

Specifications	Units	60 mm Model	70 mm Model	100 mm Model	130 mm Model
Continuous Torque	Nm	0.446 to 1.30	0.623 to 1.92	1.91 to 5.53	4.08 to 12.5
Max Torque	Nm	0.900 to 4.73	1.53 to 7.10	4.12 to 16.3	9.97 to 41.2
Diameter (Stator OD)	mm	60	70	100	130
Through Hole (Rotor ID)	mm	31	38	60	78

Contact Celera Motion for torque-speed specifications. Specifications subject to change.
For information on CE compliance please see our [Omni+ CE Compliance Statement](#).

RoHS



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