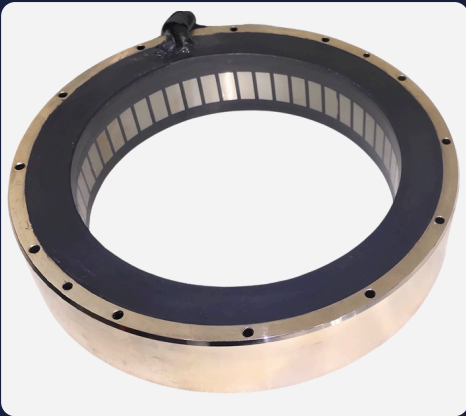


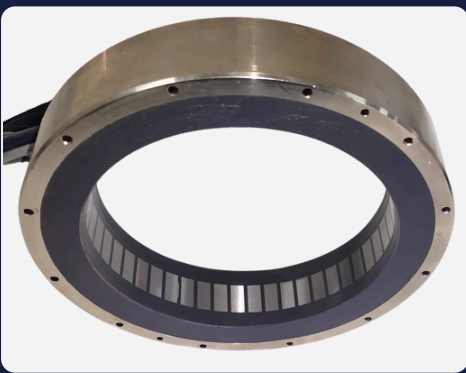
SPECIFICATIONS

Frame Outer Dia	230mm
Voltage	48 Vdc
Rated Speed	60 RPM
Max Speed	170 RPM
Rated Torque	15.4 Nm
Rated Current	4.9 A rms
Max Torque	50.5 Nm
Torque Constant	3.12 Nm/A r.m.s
Rotor Inertia	0.016 Kgm ²
Weight	≈5.8 Kg

VIEW 1



VIEW 2



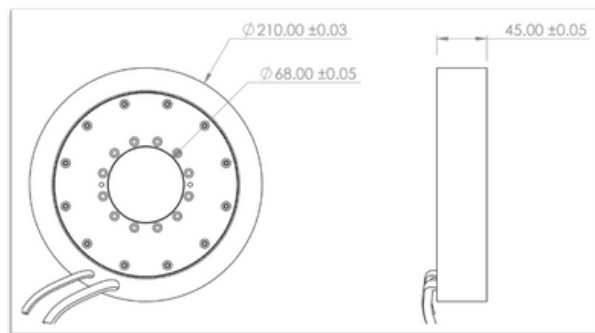
RAAD Systems vacuum motors are frameless motors designed to maximize power in a small form factor. They are designed to operate in vacuum levels of 10⁻⁸ torr, and are ideal for high precision semiconductor vacuum wafer handler applications, applications requiring high vacuum feedthroughs, etc. These motors can also be customized, with adjustable rotor and stator sizes, to fit your specific dynamic requirements.

The modular construction of these vacuum motors facilitate the easy construction of 2, 3 and 4 axes vacuum motor stacks, with and without z travel, permitting vacuum robot designer to create a wide array of precise, high performance wafer handling solutions based off single and dual SCARA, frog leg, parallelogram and other designs for semiconductor vacuum wafer handling applications, resulting in optimized tool performance, throughput and footprint. These vacuum hubs exhibit high stiffness, optimized trajectory following and minimal hysteresis unlike designs based on magnetic coupling, ferrofluidic seals, dynamic seals and the like.

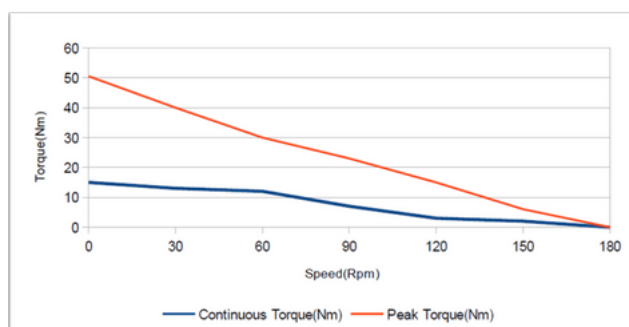
KEY FEATURES

- Designed with vacuum barrier between rotor stator facilitating development of customized direct drive vacuum robot designs and vacuum feedthrough designs that avoid the complexity and performance drawbacks.
- Incorporates rare-earth nickel-plated neodymium magnets to deliver maximized torque and acceleration in a compact assembly; the magnetic gap features exceptional peak force density, as well as the reduced rotor inertia further enhances overall performance.
- Constructed with powerful high-temperature grade materials for reliable performance under demanding conditions.
- Frameless configuration minimizes machine size and reduces maintenance requirements.
- Engineered for higher efficiency to ensure better performance and energy savings; advanced cooling mechanisms boost efficiency and performance across various operating conditions.
- Winding options can be customized to optimize cost and performance for a specific application

DIMENSIONS



PERFORMANCE CURVE



PRICING INFORMATION

1-29 units: \$4,315 each
30-50 units: \$4,097 each

For larger quantities or specific pricing inquiries, please contact us!

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