

HDRM™Titan

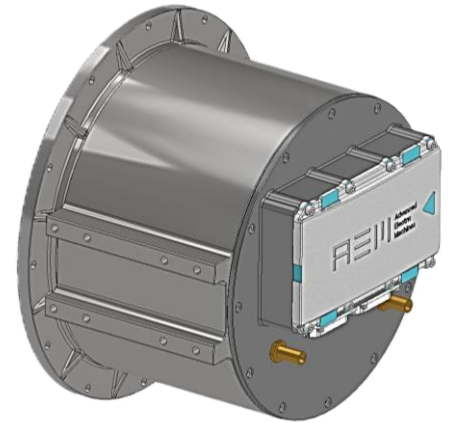
Heavy-duty, magnet-free motors with patented compressed coil technology

Concept Design

The HDRM™Titan Series are rare earth magnet-free motors offering market-leading performance, efficiency and sustainability for a range of applications. Using off-the-shelf power electronics, the HDRM™Titan motors are a direct replacement for permanent magnet machines.

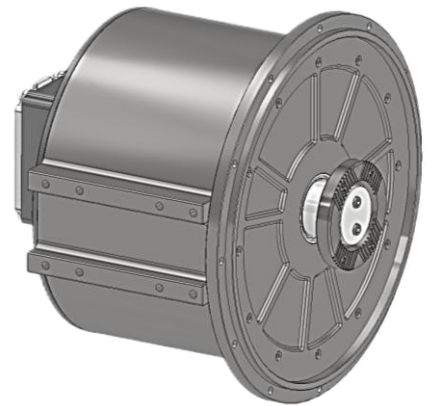
New Features

- + Peak power of 700kW and 5000Nm peak torque
- + Continuous power of 500kW and 3500Nm continuous torque
- + Compressed coil technology and improved thermal management
- + Extruded housing design allowing for multiple length options
- + Changeable output shaft options

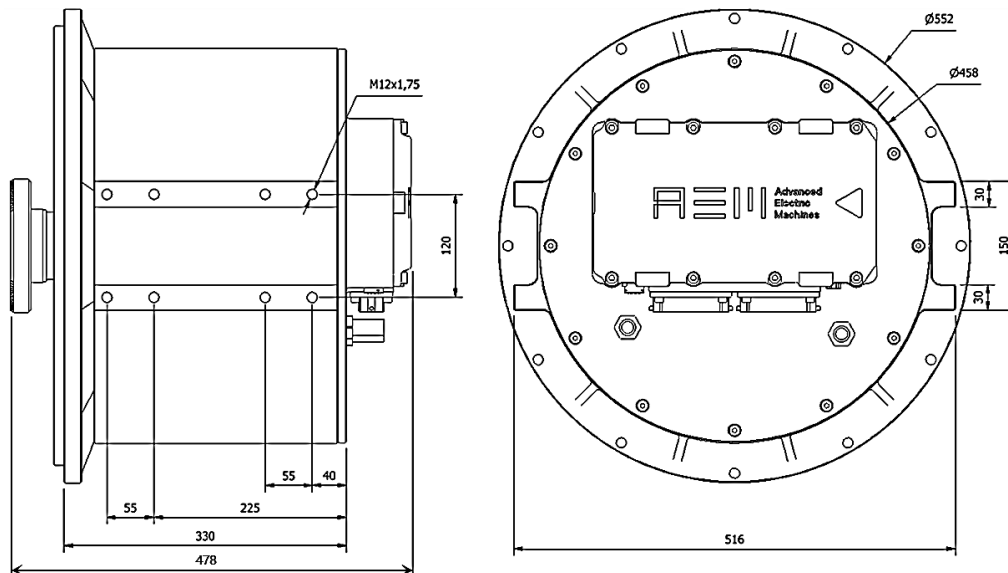


Same Great Benefits

- Freewheeling capability allowing vehicle to coast when necessary.
- Inverter agnostic.
- No risk of demagnetization, allowing motors to run faster and hotter.
- No back-EMF or short circuit current to ensure safe failure modes.
- No cogging at high speeds for high drive cycle efficiencies.



Dimensions



Advanced Electric Machines reserves the right to change or modify product specifications, configurations, or dimensions at any time without notice.

Headline Machine & Electrical Properties

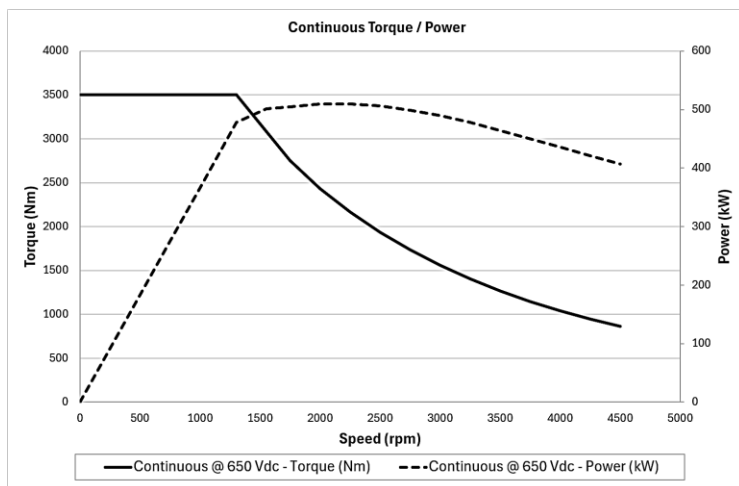
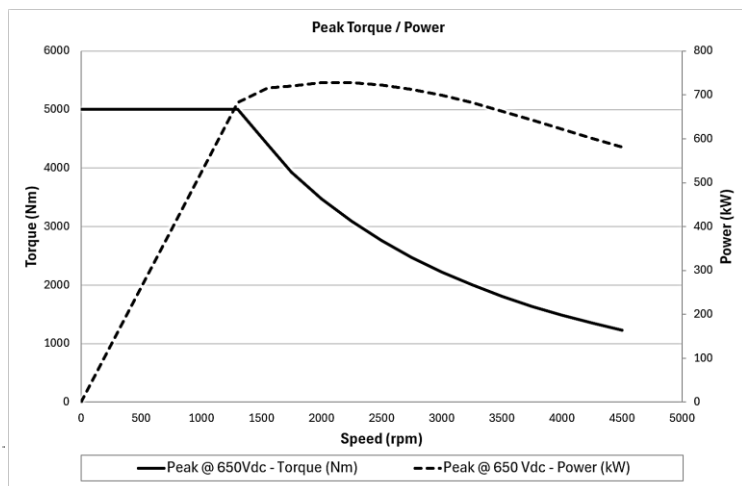
Performance

Peak Power	>700 kW
Continuous Power	500 kW
Peak Torque	5,000 Nm
Continuous Torque	3,500 Nm
Max. Speed	4,000 rpm
Weight (dry)	~200 kg

Electrical

Maximum Voltage	1000Vdc
Nominal/Rated Voltage	650Vdc
Operating Voltage (Full Perf.)	600Vdc-850Vdc
Minimum Voltage	500Vdc
Maximum Current	900Arms
Frequency at Max Speed	1667Hz

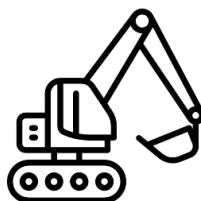
Performance Specification



Target Applications



HCV



Construction



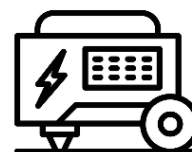
Marine



Bus



Agriculture



Genset

- All dimensions, specifications and performance documented are targets for the product.
- Motor performance may vary based on the customer's duty cycle, system integration and operating conditions.
 - Conditions include but not limited to: coolant flow rate, coolant temperature, inverter parameters and mounting arrangement.
 - Customer must validate exact performance in the end application.

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