

HDRM™300 System

Class-leading motor and transmission drive systems

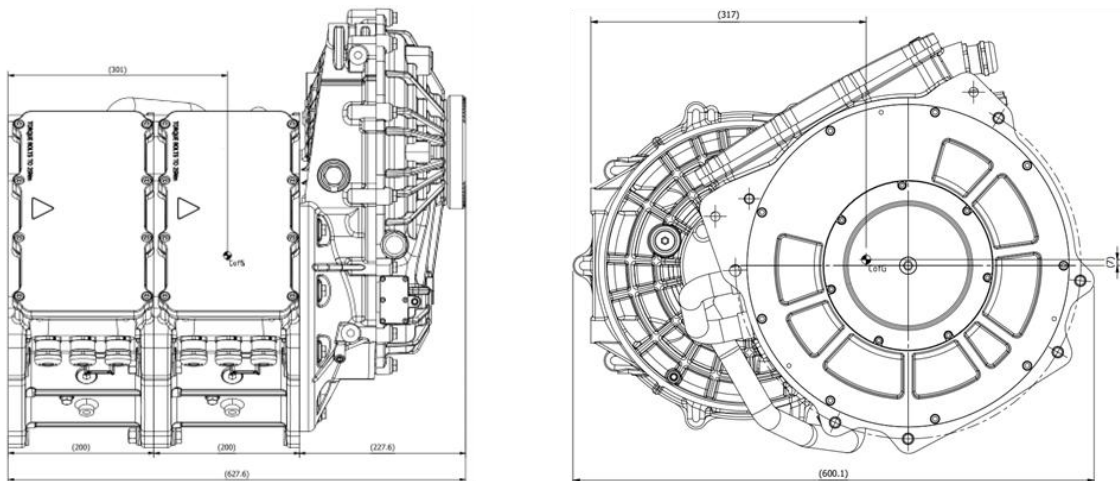
The HDRM™300 Systems incorporate rare earth magnet-free motor technology for high efficiency over real-world duty cycles. These systems are available with HDRM™300 and HDRM™300T motors, both giving class-leading power density and torque

Features

- Sustainable, magnet-free motors.
- Stackable design for a wide range of applications.
- Ingress Protection Level IP67.
- High strength transmission with low noise and minimised losses.
- Dual motor system offers extended high-efficiency operating range.
- 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



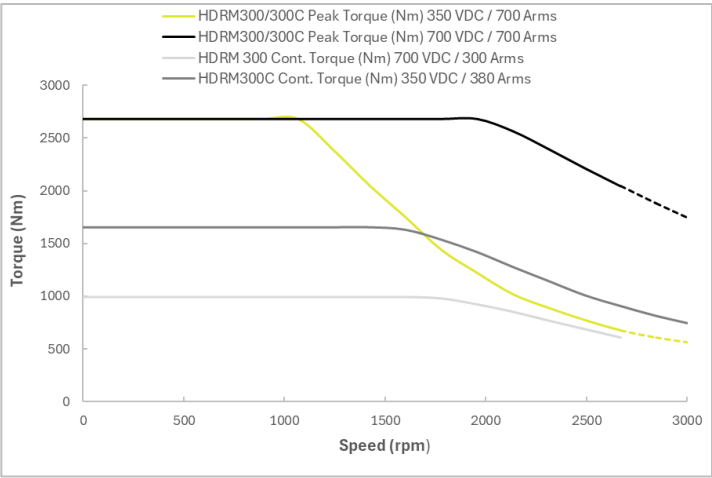
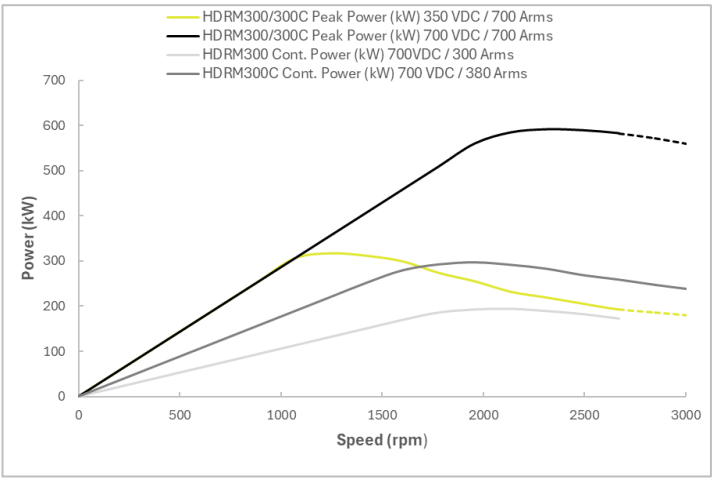
Advanced Electric Machines reserves the right to change or modify product specifications, configurations, or dimensions at any time without notice.

Performance

All systems include 2x motors, 1x 2.81:1 transmission.

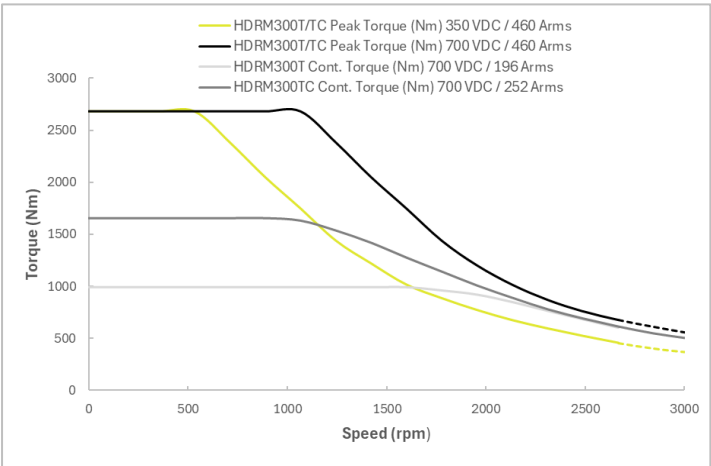
	HDRM™300 System	HDRM™300T System	HDRM™300C System	HDRM™300TC System
Peak Power	580 kW (2,300 rpm)	315 kW (1,420 rpm)	580 kW (2,300 rpm)	315 kW (1,420 rpm)
Continuous Power	192 kW	192 kW	295 kW	215 kW
Peak Torque	2,670 Nm	2,670 Nm	2,670 Nm	2,670 Nm
Continuous Torque	990 Nm	990 Nm	1,650 Nm	1,650 Nm
Max. Speed	2,670 rpm	2,670 rpm	3,000 rpm	3,000 rpm
Weight	245 kg	245 kg	257 kg	257 kg
Cooling	Water / Glycol	Water / Glycol	Water / Glycol	Water / Glycol

HDRM™ 300 System and HDRM™300C System



----- HDRM300 maximum speed 2,670rpm. HDRM300C maximum speed 3,000rpm.

HDRM™ 300T System and HDRM™300TC System



----- HDRM300 maximum speed 2,670rpm. HDRM300C maximum speed 3,000rpm.

Notes: HDRM™300/C: data based on 700 Arms Peak current, 300/380 Arms Continuous current. Peak performance at 700 VDC. Continuous performance from 350 VDC. Continuous power with 37degC coolant. HDRM™300T/C: data based on 460 Arms Peak current, 196/252 Arms Continuous current. Improved peak performance possible with higher current inverter. Peak performance at 700 VDC. Continuous performance from 500 VDC. Continuous power with 37degC coolant.

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