



Electric Drive Unit

The Harbinger EDU is an extremely durable, fully integrated electric drive unit, incorporating the electric motor, transmission, and differential into one easily serviceable component.



Space-Saving Design

Allows for improved ground clearance and low floor height, making entering and exiting easier on the driver.



Long Lasting

Engineered to meet the demanding requirements of commercial vehicles, with a 450,000 mile service life.



Efficient System

Multiple motor winding paths for high efficiency, and an oil-cooled motor for maximum power density.



A Quiet Ride

Optimized for low noise operation of the gearset and motor, making for a more comfortable ride.



Electric Drive Unit Features and Specifications

Performance

Service Lifetime	450,000 miles / 725,000 km
System Efficiency	94% (motor, transmission, & differential)
Voltage Range (operable)	520V – 800V
Motor Topology	12 Pole IPM, Proprietary Winding
Peak Power	330 kW / 440 HP
Continuous Power	219 kW / 280 HP
Peak Torque (at motor)	1,550 Nm / 1,140 ft-lb
Peak Torque (at wheel)	18,100 Nm / 13,360 ft-lb
Motor Speed	9,800 RPM
Output Speed	812 RPM
Gear Ratio	12.07:1 (two stage, single speed)
Dimensions w/o Mount Brackets (L x W x H)	753 x 635 x 419 mm / 29.6 x 25.0 x 16.5 in
Weight (including oil)	245 kg / 539 lbs
Internal Cooling Medium	Low Viscosity Oil
External Cooling Medium	50/50 Water/Ethylene Glycol (w/ Integrated Heat Exchanger)
Coolant Flow at Peak Power	20 LPM

Safety & Environmental

Ingress Protection	IP6k9k
Operating Temperature Range ¹	-30°C to 55°C / -22°F to 131°F
Corrosion Resistance	Tested in accordance with GMW 14872 and ASTM B117 (20 years)



¹Performance limitations apply when operated close to temperature limits.

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