



SuperPanther Next Generation “EverDrive” eAxle

SuperPanther's next-generation “EverDrive” eAxle integrates the electric motor, multi-speed reducer, cooling, lubrication, PTO and intelligent control into a high-performance electric drive system for heavy-duty applications.

KEY TECHNOLOGY HIGHLIGHTS

- **Powerful & High Load:** the flat-wire-wound motor delivers 43,000 N·m continuous torque and 500 kW continuous power for heavy-load starts and sustained climbing.
- **High-Strength Axle Housing:** the one-piece stamped-and-welded axle housing, made from high-strength steel with precision robotic welding, enhances structural strength and load-bearing capability.
- **Intelligent 4-Speed Reducer:** the 4-speed reducer enables seamless shifting without torque interruption, optimizing drive efficiency across different operating conditions.
- **Lightweight & Compact:** an optimized architecture reduces weight by 130 kg and volume by 15%, enabling more flexible vehicle packaging and greater payload potential.
- **Extended Service Life:** highly integrated active lubrication system with low oil churn, extended service intervals. Hub unit with 3 years / 500,000 km maintenance-free operation and a 1,500,000 km service life, reducing maintenance requirements and downtime.
- **Full-Coverage Oil Cooling:** the full oil-cooling system and full-coverage oil circuit support stable power output under continuous heavy-load operation.
- **Flexible PTO & Intelligent Control:** An optional PTO directly driven by the traction motor, combined with intelligent shift control, adaptive torque distribution and regenerative braking, supports diverse applications and efficient energy management.