

Engineered for mining. Built to military standards.

TECHNICAL SPECIFICATIONS

Frame	
Dimensions	Length x Width x Height: 3.05 m x 1.83 m x 1.22 m (10' x 6' x 4')
Ground clearance	0.33 m (13")
Capacity	4,500 kg (10,000 lbs)
Towable	Manual brake release, gearbox manual release

Propulsion	
Type	Four independent AC motors with regeneration
Power	160 kW (peak)
Torque	68,000 Nm (peak)
Tires	1,046 mm (41.18") application- approved tires
Turning radius	0 (turns on itself)
Speed	5 km/h (standard) 12 km/h (upgrade)

Battery	
Chemistry	Li-Ion NMC (LFP available)
Nominal voltage	118V
Amp	330A continuous, 500A peak
Capacity	27 kWh (upgradable up to 81 kWh)
Range	Typically from 4 hours to 12 hours (21% slope)
Environmental temperature	-40°C to 50°C (cooling/ heating available for extreme conditions)
Charging	From 2 hours (14 kW) to 4 hours (7 kW) with onboard 240V AC charger for 27kWh battery

Safety	
Integrated emergency braking system at each motor	
Onboarded Level 9 PDS	
Radars, LiDAR and cameras for 360 dust-resistant scanning	
Four illuminated E-Stops around the vehicle	
Industrial wireless remote control with integrated E-Stop	
Multilayered software architecture ensuring highly secure system	
Advanced eHMI system to better communicate vehicle's state	
High visibility: flashing beacon + reflective strips/paint	
Lockable main switch	
Temperature monitoring, stable battery chemistry	

Computing	
Low-Level Computer	Ultra-low latency programmable logic controller for low-level control
High-Level Computer	High-speed Linux-based industrial PC for embedded AI and autonomous navigation

Integration	
Communication	LTE, 5G, WiFi, Radio
Autonomy modes available	From SAE 0 to SAE 4 (depends on multiple factors, to be discussed)
Cross-platform compatibility	System agnostic, can be integrated into any system
Data owner	Raw data can be downloaded without limitations (no fee)
	Minimal installation needed in control centre