





Zero-Emission Battery Electric Powertrain

-	Traction Motors	Auxiliary Motor	Batteries (LiFePO ₄)
1	Torque, Peak 3870 Nm 2854 ft-lb	Torque, Peak 700 Nm 516 ft-lb	Primary Pack Nominal Energy 265 kWh
1	Power Peak Combined 600 kW 805 hp	Power 125 kW 167 hp	Nominal Capacity 432 Ah
	Continuous Combined 480 kW 643 hp		Tramming Pack
7			Nominal Energy 24 kWh Nominal Capacity 72 Ah

A10 FEATURES

High Performance Powertrain

The A10 is powered by 2 electric motors generating 600 kW and 3870 Nm of torque. We use Lithium-Iron Phosphate chemistry (LiFePO₄) for our patented battery system. Our power is not constrained by ventilation limitations and therefore we use the most powerful electric motors available which directly improves productivity.

Regenerative Braking

SAHR with electric regeneration allows for the battery to recharge during the braking process by converting mechanical energy into electrical energy. This feature is making the industry rethink their mine designs in order to support this valuable technology. In the right environment, a battery electric vehicle could potentially operate for an entire shift on a single charge. This directly translates to added production and increased revenue for the mine.

Zero-Emissions

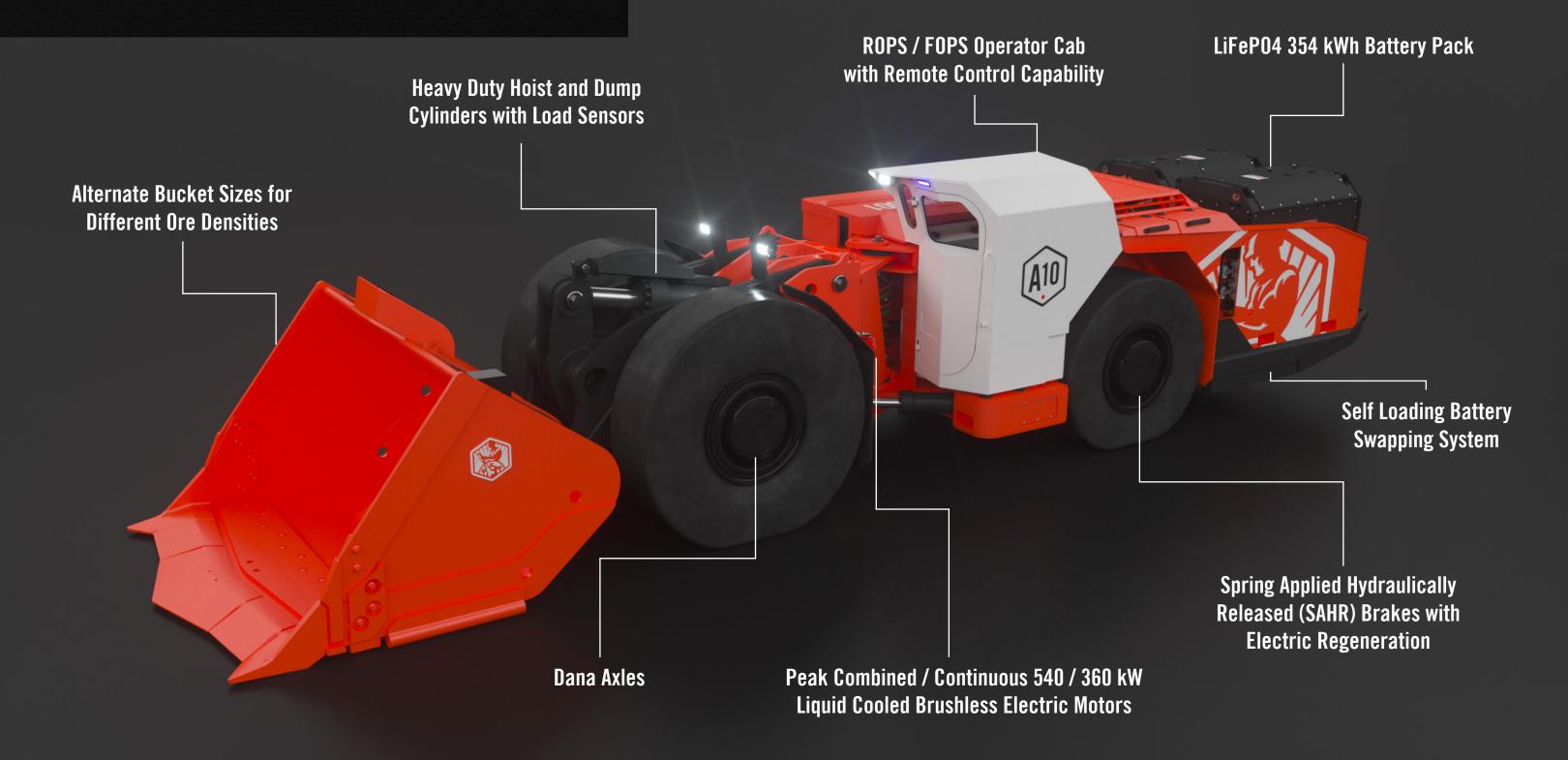
All of our vehicles have zero-emissions which provide a healthier environment for the operator. The implementation of battery electric vehicles will have a significant reduction in ventilation, heat and overall operating cost resulting in a positive impact on the mine's bottom line.

Innovative Design

Designed to offer the most power in the smallest footprint. The A10 is the size of a standard 7 yd. LHD yet moves 10 tonnes per bucket. This vehicle has a self loading battery swapping system which speeds up swapping time and directly translates to added production.



• A10 LOW PROFILE FEATURES





A10 SPECIFICATIONS - LOW PROFILE

General Information

Main Dimensions		
Overall Length	9,900 mm	390 in
Overall Width	2,200 mm	86.5 in
Wheelbase	3,400 mm	133.9 in
Ground Clearance	320 mm	12.5 in
Cah Height	2 160 mm	85 in

Empty Weights

3	Total Operating Weight	33,315 kg	73,447 lb
	Front Axle	11,611 kg	25,598 lb
	Rear Axile	21,703 kg	47,847 lb

Loaded Weights

,	Total Loaded Weight	43,314 kg	95,491 lb
	Front Axle	27,216 kg	60,001 lb
	Rear Axle	16,098 kg	35,490 lb

Capacities

Bucket (Low Profile)	3.5 m³ struck	4.6 yd³ struck
	4.3 m³ heaped	5.6 yd ³ heaped
Bucket (Large)	6 m³ heaped	7.8 yd³ heaped

Motion Times

7.5 sec.
2 sec.
3.5 sec.
13 sec.

Powertrain

Primary Battery		
Chemistry	LiFeF	PO ₄
Voltage	600 V	DC
Energy	265 k	Wh
Dimensions (L x W x H)	93 x 218 x 152 cm	76 x 86 x 60 in
Approximate Weight (including frame structure)	6804 kg	15,000 lb

Tramming Battery

	Chemistry	LiFePO ₄
1	Voltage	345 V DC
	Energy	24 kWh

Axles

Front	Dana 20D, Fixed
Rear	Dana 20D, Oscillating

Differentials

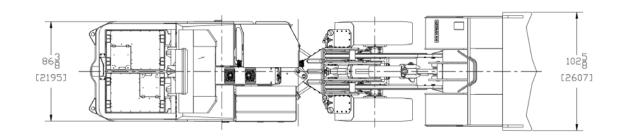
Front	Limited Slip
Rear	Limited Slip

Brakes

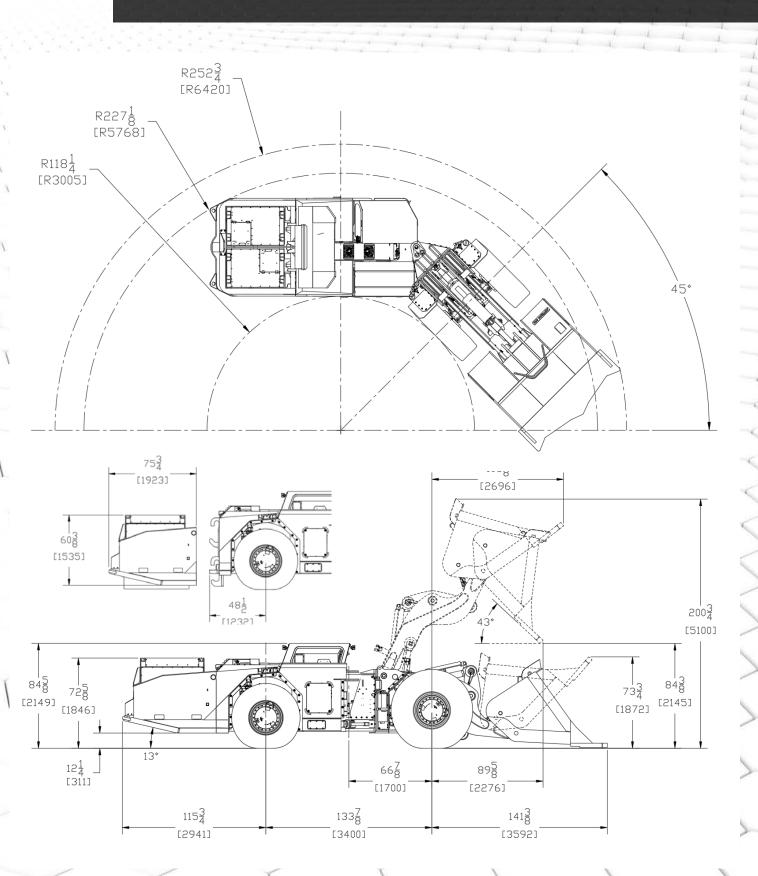
Emergency, Park	SAHR
Service	SAHR with Electric Regeneration

Tires

Front	18.00R25 L5-S	
Rear	17.5R25 L5-S	
	v Y	



■ A10 SPECIFICATIONS - LOW PROFILE





Artisan Vehicles delivers underground battery loaders and trucks with zero exhaust emissions. With over 300,000 operating hours underground and 10 years of experience, today, most battery loaders and trucks operating underground use Artisan Vehicles technology.



Artisan Vehicles is part of Sandvik Mining and Rock Technology, Load and Haul division.