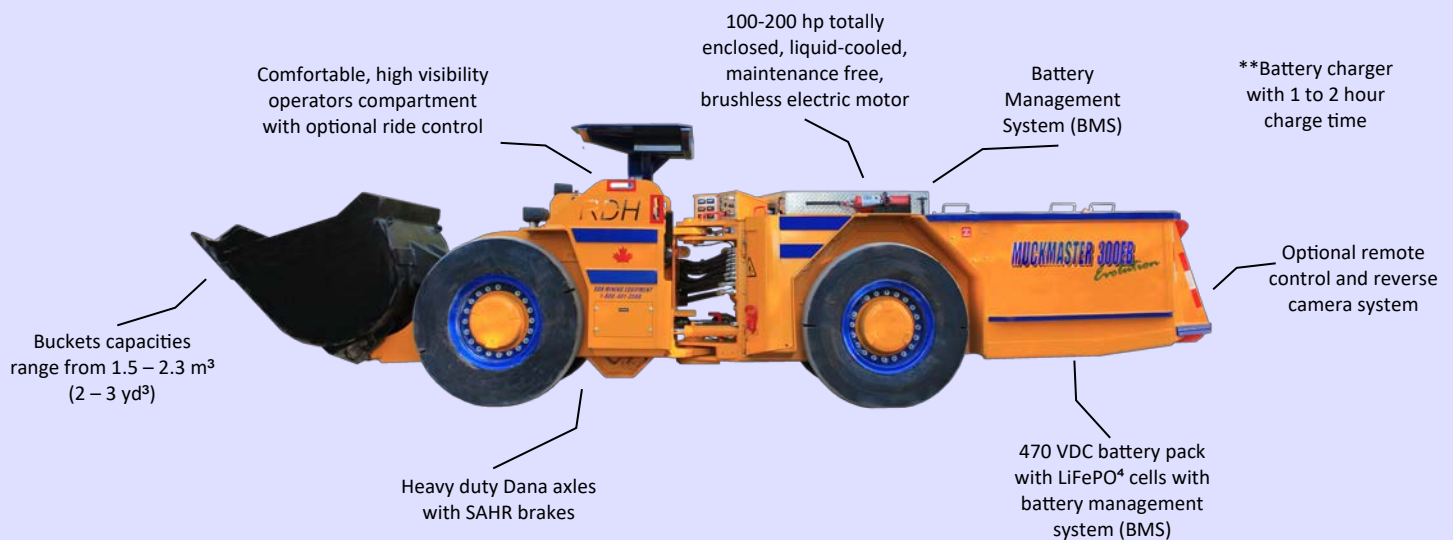


MUCKMASTER 300EB is a robust, safe, powerful, and reliable battery powered LHD designed for clean, high production, loading and hauling in demanding underground applications.



The robust and reliable four-wheel drive, articulated Muckmaster 300EB consists of a power-shift transmission powered by an electric motor and battery system connected to heavy-duty Dana axles. The rugged frame and articulated carrier make the Muckmaster 300EB a very durable and extremely maneuverable unit even in the tightest situations. The elimination of a diesel engine allows for significant cost savings in reduced maintenance and energy costs, reduced ventilation requirements and improved health and safety for workers. In underground mining and tunneling operations, the Muckmaster 300EB will ensure workers meet production goals in a safe, healthy, and timely manner.

FEATURES:

- Bucket capacities from 1.5 to 2.3 m³
- Up to nominal payload capacity 5400 kg
- Lower life cycle cost (LCC), safer to operate, performs better
- Battery management system (BMS) for optimal battery health and performance
- Various bucket capacities/styles available to suit customer requirements
- Optional ride control available for smoother, more comfortable travel experience
- Fully enclosed, climate controlled operator's compartment option available

SPECIFICATIONS:

BATTERY SYSTEM

Battery pack voltage	470 VDC
Battery pack amperage	260 amps/hour
LiFePO ⁴ (lithium iron phosphate) cells	
Average charge time	1 to 2 hours
Average operating time between charges	4 hours

BATTERY MANAGEMENT SYSTEM (BMS)

Data (state of charge, state of health, voltage, temperature, current, warning lights)
 Cell balancing
 Thermal sensing
 Over current protection
 Over & under voltage protection

SAFETY FEATURES

Stop switch located in operator compartment for complete system shutdown
 High voltage interlock initiates complete system shutdown if high voltage plug is disconnected
 Master disconnect switch on battery pack
 Ground fault system
 Driver door interlock actuates joystick & transmission

BUCKET CAPACITIES

SAE Heaped	1.5 m ³ to 2.3 m ³ (2 yd ³ to 3 yd ³)
Payload with Standard Equipment	5.4 metric tonnes (6 short tons)

Bucket capacity and payload subject to change based on customer specific material density and application.

MISCELLANEOUS

Central grease point – manual
 Standard gauges and instrumentation
 ANSUL fire suppression system - manual
 Copy of Parts/Operator/Service manuals
 Suspension seating
 ROPS/FOPS certified canopy – operator compartment

POWERTRAIN

Electric Motor: 75-149 kW (100-200 hp) range, totally enclosed, liquid-cooled, maintenance free, brushless
 Drive: AC traction, variable frequency, high efficiency, heavy-duty, liquid-cooled

TRANSMISSION

Dana powershift, 32000 series
 3 speeds forward and reverse, 4 wheel drive
 Dana C270 converter

AXLES

Dana 37R, planetary type
 Oscillation (rear axle) $\pm 7^\circ$

BRAKES

Service: wet disc (integrated), internal SAHR
 Emergency & parking: SAHR

TIRES

Mine type, 12.00 – 24

STEERING

Hydraulic, articulated
 Steering angle $\pm 38^\circ$

HYDRAULICS

Steering and boom
 170 bar, 190 L/min/2200 rpm
 Hydraulic oil tank volume 166 L

ELECTRICAL SYSTEM

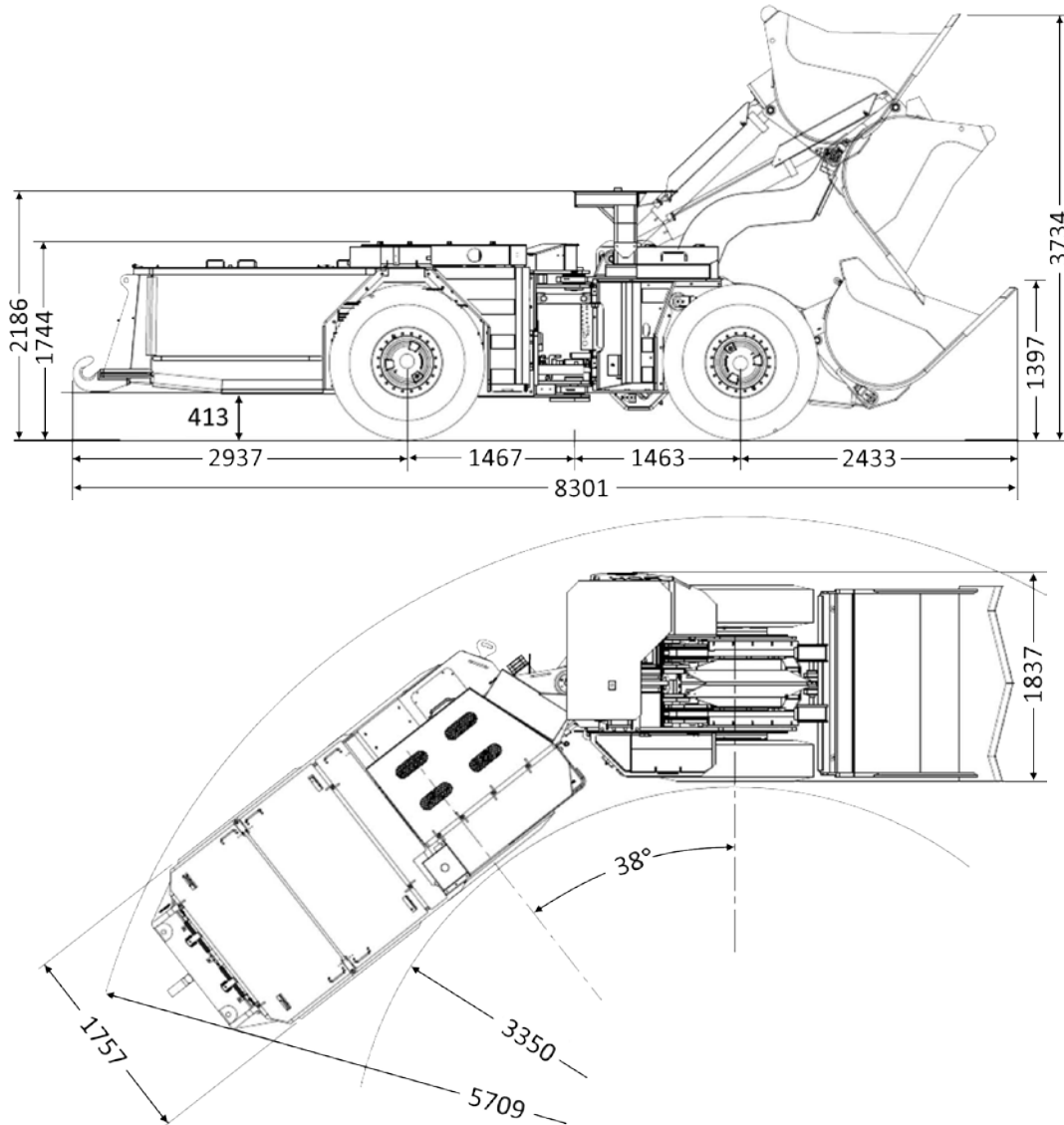
24 V
 Battery 2 x 12 VDC
 Trimming/working LED lights 4 front / 4 rear
 Brake lights 2 rear
 Horn & reverse alarm

OPTIONAL EQUIPMENT

Ejector or side dump buckets
Various bucket capacities
Automatic centralized lubrication system
24 V hydraulic oil transfer pump
Cold weather package
Solid or foam filled tires
Strobe light
Chain ready fenders
Remote brake release for towing

ROPS/FOPS approved enclosed cabin
Ride control system
Remote control system
Wheel chocks
Quick attach forklift package
ANSUL Checkfire fire suppression system
Reverse camera system
Air ride seating
Other options available upon request

MEASUREMENTS



DIMENSIONS	mm	inches	CONT'D	mm	inches
Width	1837	72	Inside turning radius	3350	132
Height	2186	86	Outside turning radius	5709	225
Ground clearance	413	16			
Length	8301	327			
WEIGHT	kg	lbs			
Total	14470	34900			

Dimensions and weights given are for MM300EB empty machine with 2.3 m³ (3 yd³) bucket, 12.00 - 24 tires, standard operator compartment, standard options, and standard body. Net machine weight changes will directly effect the payload. Material density will determine body volume figures.

All weights, dimensions, and other data reflect a standard unit unless otherwise stated. RDH reserves the right to change specifications and equipment without notice. Consult RDH Mining Equipment sales representative for specific information.