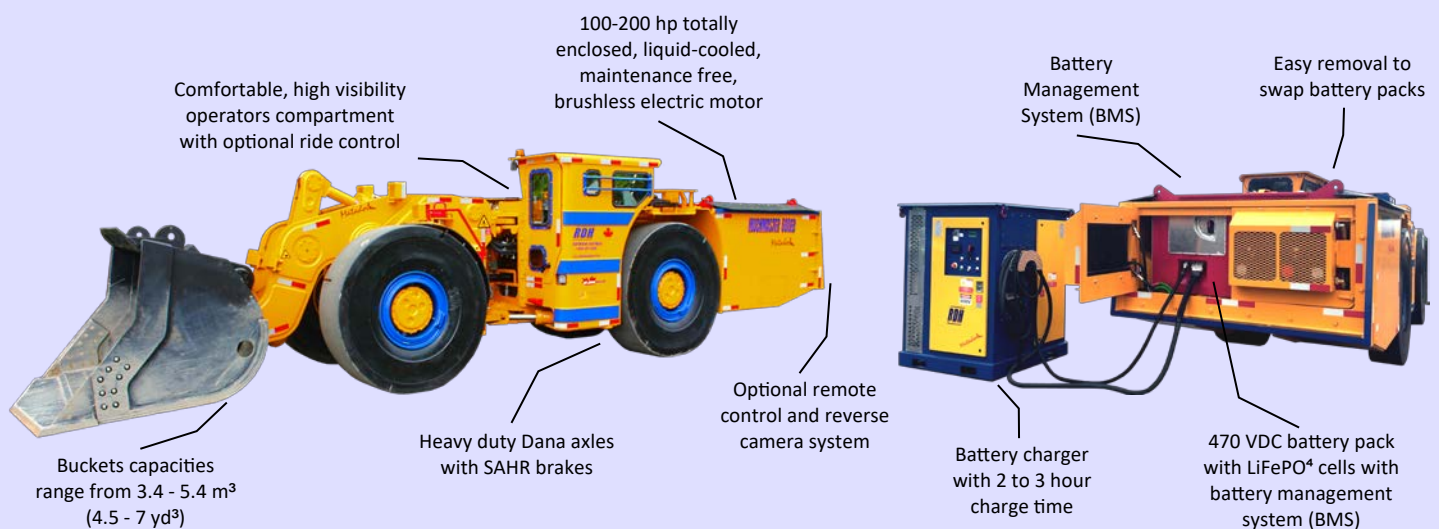


**MUCKMASTER 600EB** is a robust, safe, powerful, and reliable battery powered LHD designed for clean, high production, loading and hauling in demanding underground applications.



The robust and reliable four-wheel drive, articulated Muckmaster 600EB 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 600EB 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 600EB will ensure workers meet production goals in a safe, healthy, and timely manner.

#### FEATURES:

- Bucket capacities from 3.4 to 5.4 m<sup>3</sup>
- Up to nominal payload capacity 11000 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	400 amps/hour
LiFePO <sup>4</sup> (lithium iron phosphate) cells	
Average charge time	2 to 3 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	3.4 m <sup>3</sup> to 5.4 m <sup>3</sup> (4.5 yd <sup>3</sup> to 7 yd <sup>3</sup> )
Payload with Standard Equipment	11 metric tonnes (12 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  
 4 speeds forward and reverse  
 4 wheel drive

### AXLES

Dana 19D, planetary type  
 Oscillation (rear axle)  $\pm 7^\circ$

### BRAKES

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

### TIRES

Mine type, 18.00 – 25

### STEERING

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

### HYDRAULICS

Steering and boom  
 170 bar, 190 L/min/2200 rpm  
 Hydraulic oil tank volume 641 L

### ELECTRICAL SYSTEM

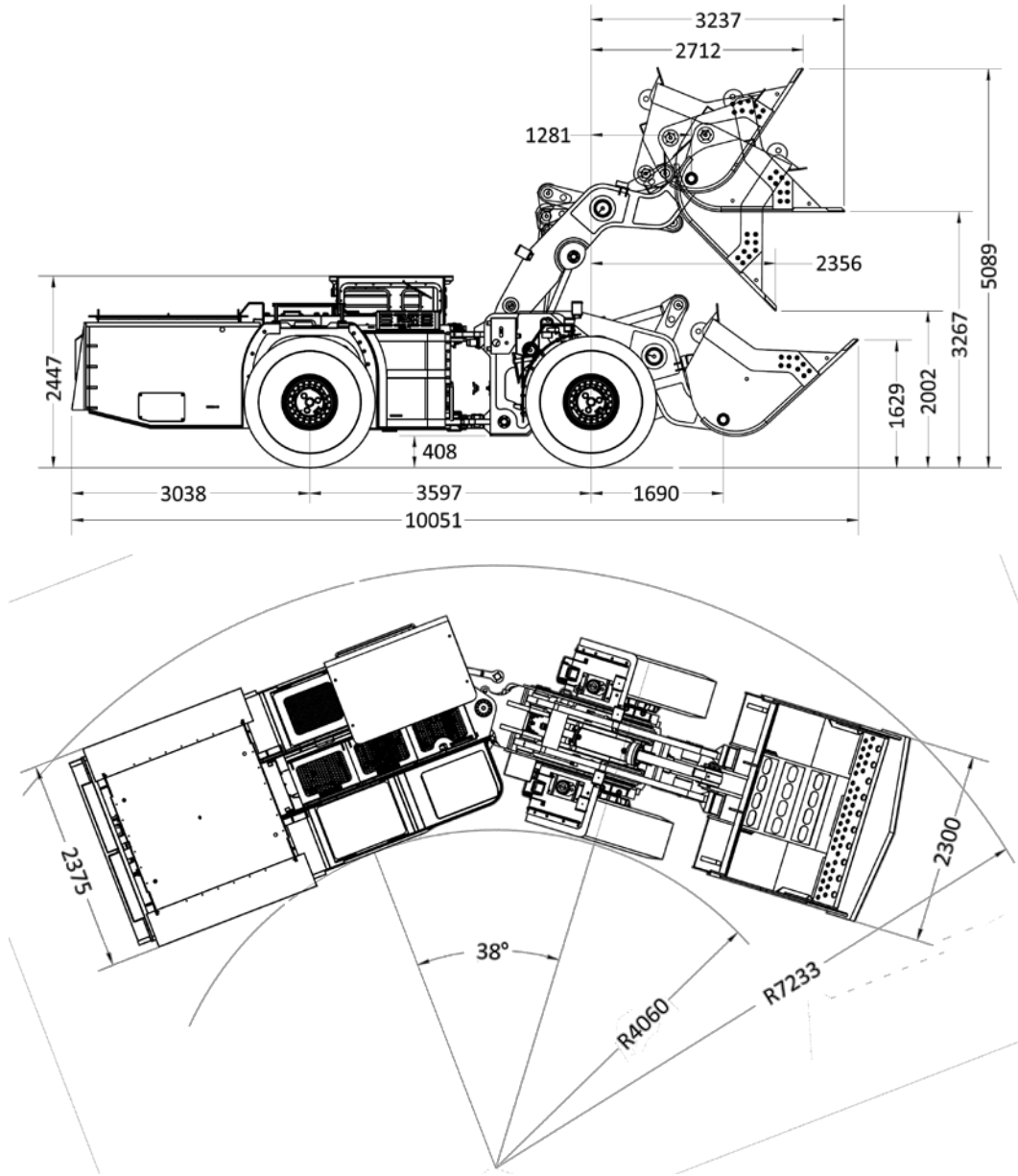
24 V  
 Battery 2 x 12 VDC  
 Trimming/working LED lights 4 front / 4 rear  
 Brake lights 2 rear  
 Horn & reverse alarm

#### OPTIONAL EQUIPMENT

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Ejector or side dump buckets	ROPS/FOPS approved enclosed cabin
Various bucket capacities	Ride control system
Automatic centralized lubrication system	Remote control system
24 V hydraulic oil transfer pump	Wheel chocks
Fast fill system	Quick attach forklift package
Cold weather package	ANSUL Checkfire fire suppression system
Strobe light	Reverse camera system
Chain ready fenders	Air ride seating
Exhaust system wrap	Remote brake release for towing
Solid or foam filled tires	Other options available upon request

**MEASUREMENTS**



DIMENSIONS	mm	inches
Width	2375	93
Height	2447	96
Ground clearance	408	16
Length	10051	396

CONT'D	mm	inches
Inside turning radius	4060	160
Outside turning radius	7233	285

WEIGHT	kg	lbs
Total	31100	68563

Dimensions and weights given are for MM600EB empty machine with 4 m<sup>3</sup> (5.23 yd<sup>3</sup>) bucket, 18.00 - 25 tires, fully enclosed 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.