

MasterMover®

LM100

Battery powered electric tugger



LM100



Overview

Easily move wheeled loads with the SmartMover range. Delivering effortless pushing, pulling, and steering, the SmartMover improves safety, removes manual handling, and drives operational efficiency.

With robust yet simple coupling systems, the SmartMover range ensures loads are secure and gives operators complete control – even on slopes.

Safety-focused, SmartMover electric tuggers feature anti-crush functionality, emergency stop, variable speed settings, and intuitive controls to keep operators, loads, and equipment safe.

Benefit from versatility with various coupling options available, including a hydraulic clamp that delivers total load security.

Key Features

Safety

- Warning horn, flashing beacon, performance monitoring and emergency stop
- Intuitive parking brake stops loads, even on slopes
- Multiple speed settings for maximum control

Performance

- Two high-powered motors for consistent performance
- 180° steering angle provides precise handling
- Powerful performance both indoors, outdoors and on slopes

Power

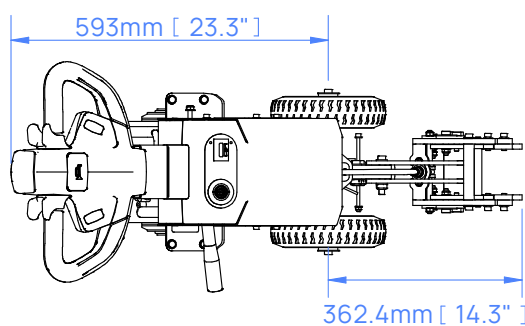
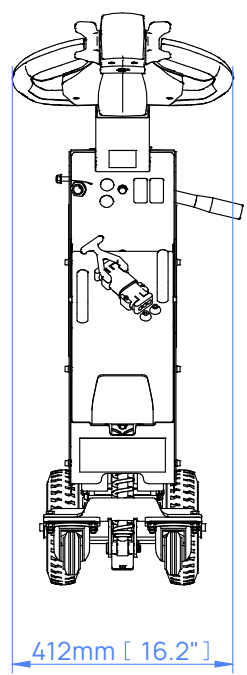
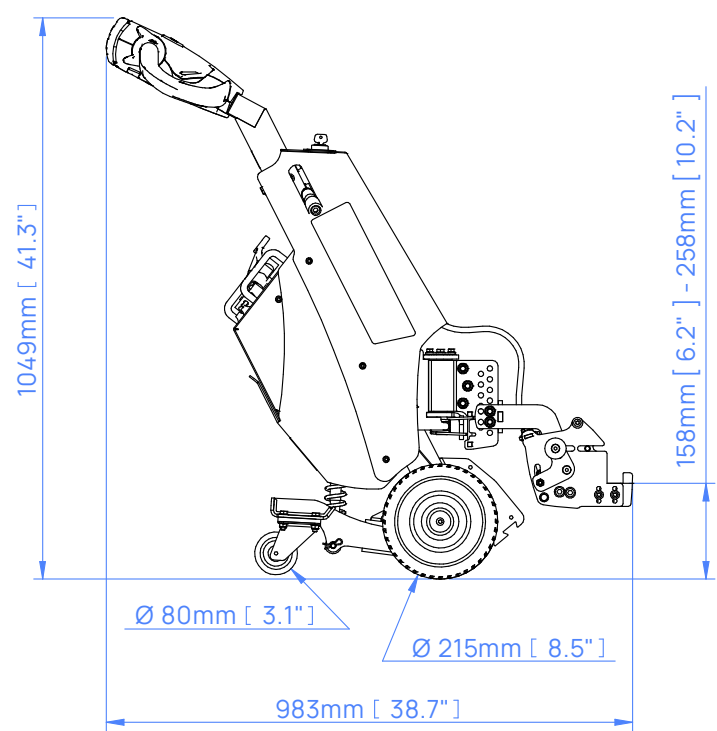
- Interchangeable, maintenance-free batteries for 24/7 operation
- Power display for real-time data
- Smart charging system to maximum battery longevity

Connection

- Secure and easy-to-use coupling options, including hydraulics
- Variable coupling options for maximum flexibility
- Custom couplings available



Dimensions

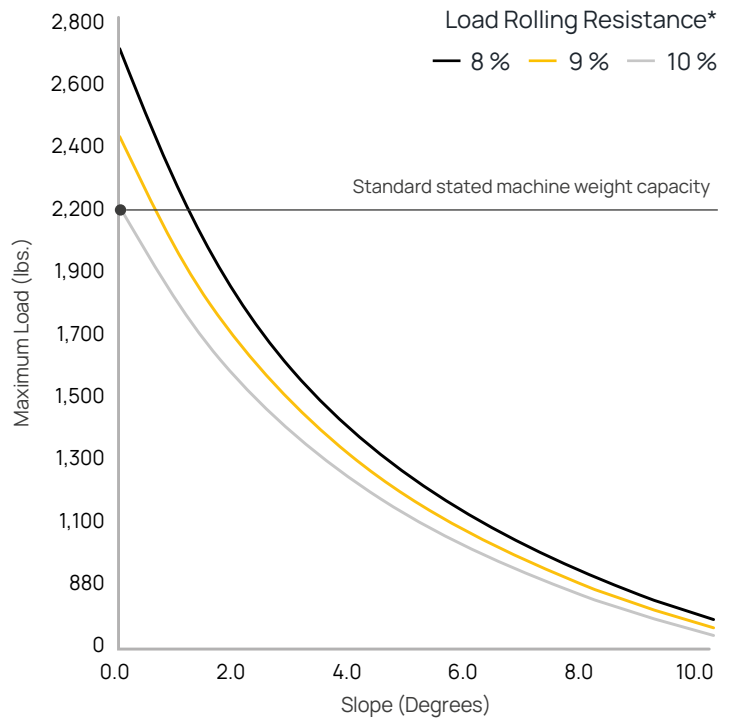


Slope Performance

The force required to move a load is based on load weight, slope angle and floor condition. Movement on a slope increases the force required to safely start, stop and move the load.

If your application involves moving a load up or down a slope, speak to our team who will be happy to advise on which machine will meet your requirements.



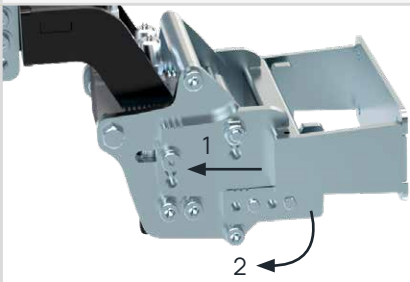

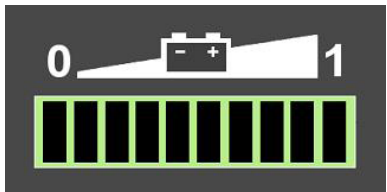

* Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.






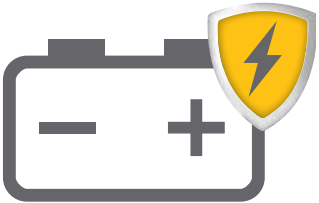
In Application: SmartMover










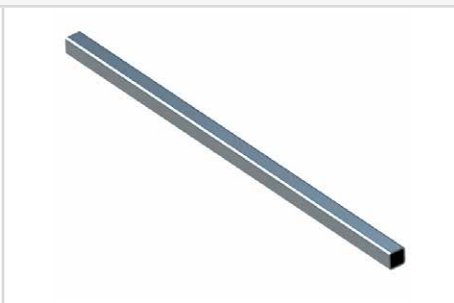


Machine Safety Features

Anti-Crush Button	Warning Horn	Two Stage Lock to Load
		
Automatic Parking Brake	Battery Discharge Indicator	Key Switch
		

Machine Options

Additional AGM Battery Z37-00300	Two Speed Selector Switch Z37-00500	Flashing Light & Motion Beeper
		
Battery Protection System		
		

Couplings

A-Frame Z37-00600 male female - straight			
			
A-Frame Z37-00600 male female - angled			
			
Box Section Sizes 20x20 to 75x75mm			
			
Rollcage Pivot Link Bar Z37-00703 male	Xriss-Xcross Straps Z37-00704 male		
			

Couplings

Custom Engineering

We understand that every application is different. Whether it's a custom coupling to connect to your load, modifying our electric tuggers to work in a challenging environment, or designing an entirely new solution for your application, our Customer Engineering team is here to help.

For more information about our custom engineering capabilities, please visit: mastermover.com/en-us/custom-solutions
If you'd like to discuss your requirements, speak to your sales representative or email: sales.usa@mastermover.com

Technical Specification

Machine	
Product code	Z37-00100
Maximum load (on castors on rails)	2,200 lbs. 8,800 lbs.
Maximum force (push pull)	981 N 981 N
Machine weight	119 lbs.
Battery weight (standard)	35 lbs.
Combined machine & battery weight (standard)	154 lbs.
Drive type	Twin Electric Motor
Braking	Regenerative
Parking brake	Electromagnetic
Drive wheel type	Non-Marking Rubber
Castor wheel type	Non-Marking Polyurethane
Drive wheel diameter	8.7"
Drive motor power	2 x 0.22 kW
Controller type	DC
Standard machine speed	2.6 mph
Hare mode speed (With two speed selector switch)	3.4 mph
Tortoise mode speed (With two speed selector switch)	1.1 mph
Maximum slope	30°
Voltage	24 v
Noise level	Motor ≤80 dBA Flashing light ≤85 dBA Horn ≤112 dBA
Metal work finish	Powder coat paint & zinc plated
IP rating	IP44
Hydraulic Specification	
Maximum Lift Force at the Coupling	59 lbs.
AGM Battery	
Product code	Z37-00300
Battery pack capacity	22 Ah
Maximum distance per charge*	5.8 miles
Charge time	4 hrs 30 mins
External Charger	
Product code	Z37-00400
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	5 A
Phase (single, three)	Single
IP Rating	IP30

Technical Specification

Coupling		
A-Frame (male)		Optional
Box Section		Optional
Rollcage pivot link bar		Optional
Xriss-Xcross Straps		Optional
Safety		
Key Switch		Standard
Battery Discharge Indicator		Standard
Automatic Parking Brake		Standard
Anti-Crush Button		Standard
Warning Horn		Standard
Two Stage Lock to Load		Standard
Options		
Additional AGM Battery		Optional
Flashing Safety Light and Motion Bleeper		Optional
Two Speed Selector Switch		Optional
Battery Protection System		Standard

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CE ISO 9001 ISO 45001