

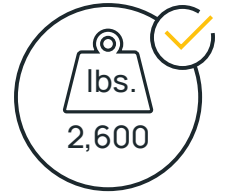
MasterMover®

SM100+

Battery powered electric tugger



SM100+



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

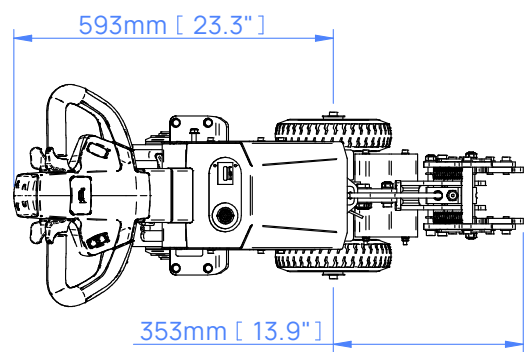
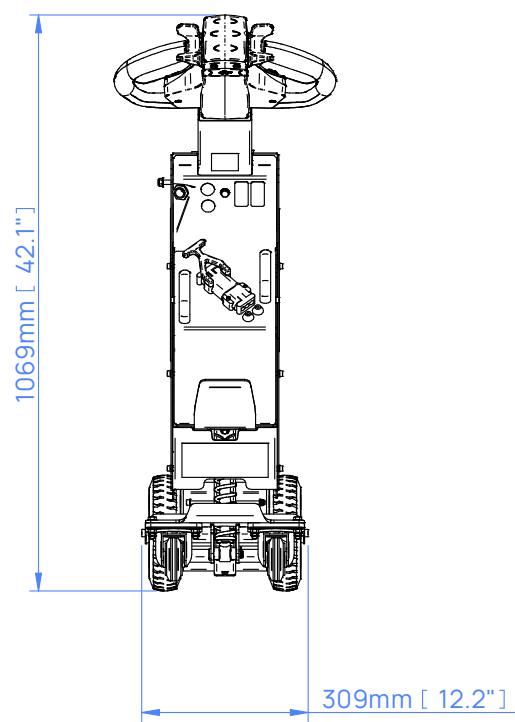
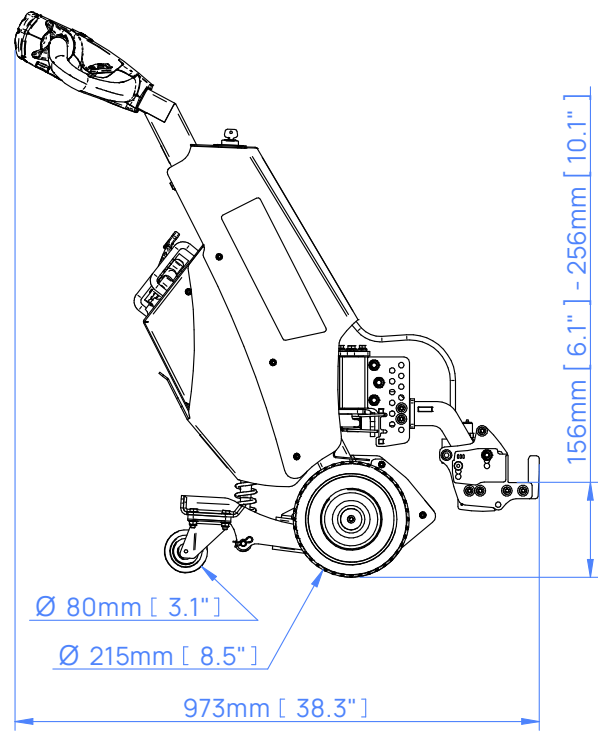
- Interchangeable, maintenance-free batteries for 24/7 operation
- Power display for real-time data
- Smart charging system to maximum battery longevity

Connection

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



Dimensions

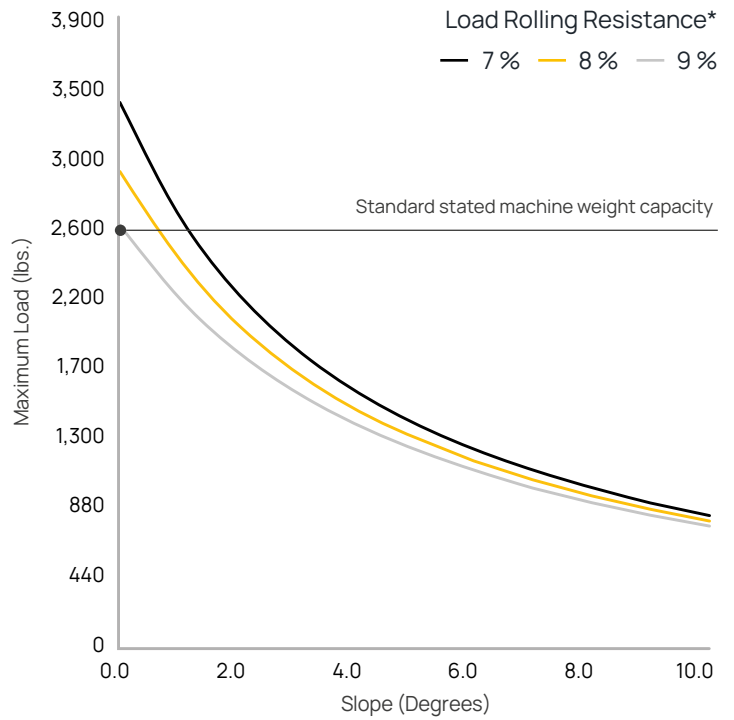


Slope Performance

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.



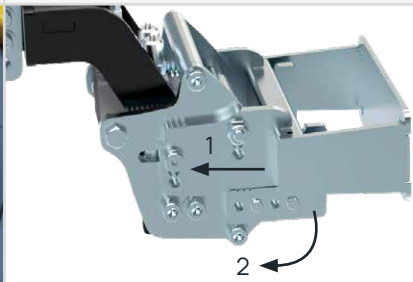

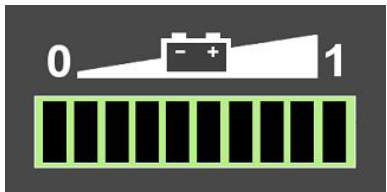
* Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.







In Application: SmartMover




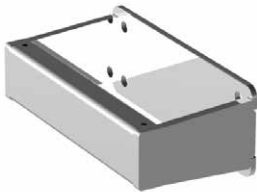





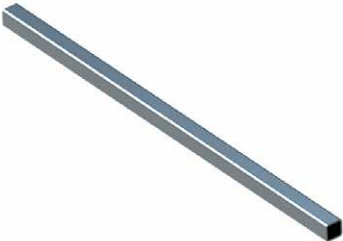

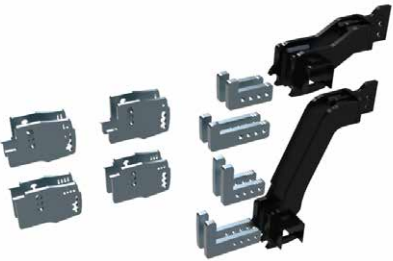


Machine Safety Features

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

Machine Options

Additional AGM Battery Z35-00500	Flashing Light & Motion Beeper Z35-00501	Two Speed Selector Switch Z35-00500
		
Battery Protection System		
		

Couplings

A-Frame Z35-00600 male Z35-00700 female - straight		
		
A-Frame Z35-00600 male Z35-00701 female - angled		
		
Box Section Sizes 20x20 to 75x75mm		
		
Variable Kit Z35-00601 male	Rollcage Pivot Link Bar	Xriss-Xcross Straps
		

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	Z35-00101
Maximum load (on castors on rails)	2,600 lbs. 10,500 lbs.
Maximum force (push pull)	1,079 N 1,079 N
Machine weight	139 lbs.
Battery weight (standard)	35 lbs.
Combined machine & battery weight (standard)	174 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	
Clamp Force at the Coupling	853 lbs.
AGM Battery	
Product code	Z35-00300
Battery pack capacity	22 Ah
Maximum distance per charge*	4.8 miles
Charge time	4 hrs 30 mins
External Charger	
Product code	Z35-00400
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	5 A
Phase (single, three)	Single
IP Rating	IP30

Technical Specification

Lithium Battery	
Product code	Z35-00301
Battery pack capacity	39 Ah
Maximum distance per charge*	9.6 miles
Charge time (External charger)	1 hrs 45 mins
External Charging	
Product code	Z35-00401
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	25 A
Phase (single, three)	Single
IP rating	IP30
Coupling	
A-Frame - Straight (male I female)	Optional
A-Frame - Angled (male I female)	Optional
Box Section	Optional
Variable Kit	Optional
Rollcage Pivot Link Bar	Optional
Xriss-Xcross Straps	Optional
Safety	
Key Switch	Standard
Automatic Parking Brake	Standard
Battery Discharge Indicator	Standard
Anti-Crush Button	Standard
Warning Horn	Standard
Two Stage Lock to Lock	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