

MasterMover®

LM100

Battery powered electric tug



LM100



Overview

Easily move wheeled loads weighing up to 2,000kg 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 tugs 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

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

Power

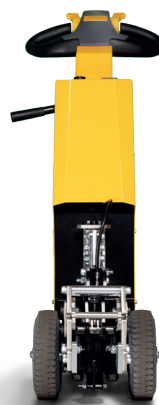
- Interchangeable, maintenance-free batteries for 24/7 operation
- Power display for real-time data
- Smart charging system to maximum battery longevity

Performance

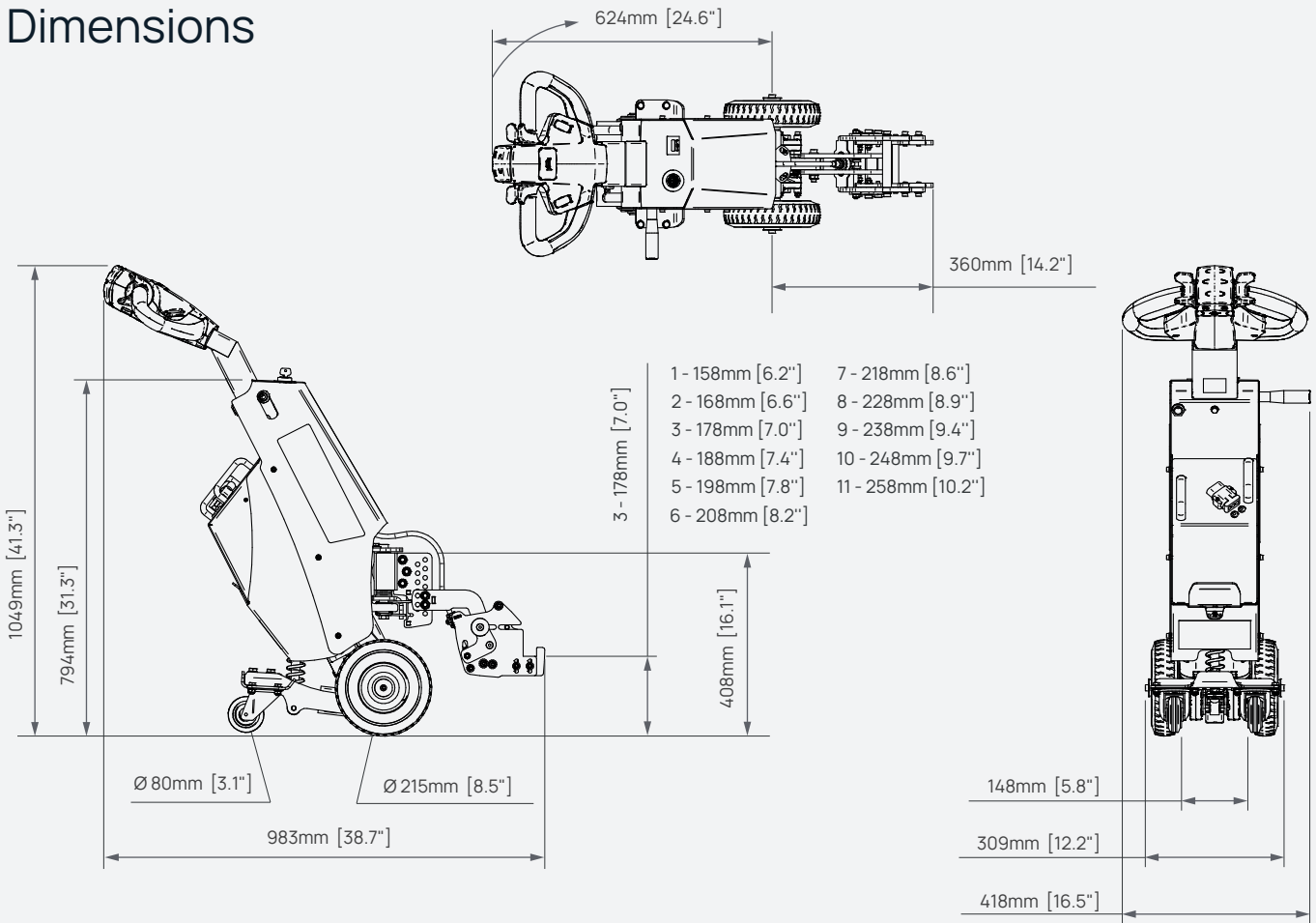
- Two high-powered motors for consistent performance
- 180° steering angle provides precise handling
- Powerful performance both indoors, outdoors and on slopes

Connection

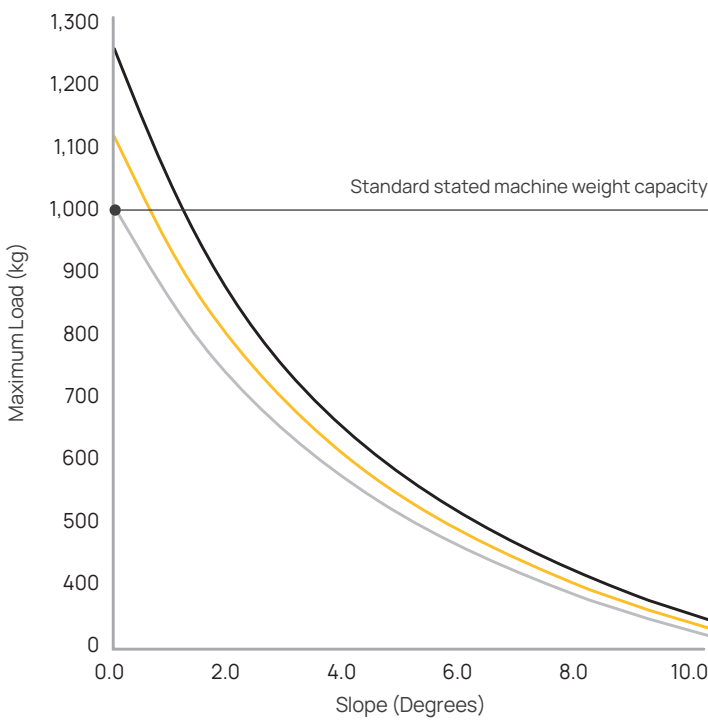
- Secure and easy-to-use coupling options, including hydraulics
- Variable coupling options for maximum flexibility
- Custom couplings available



Dimensions



Slope Performance

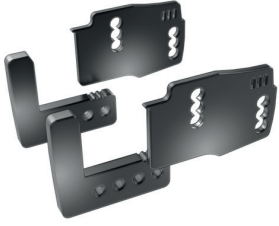
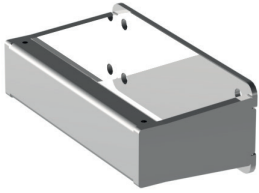
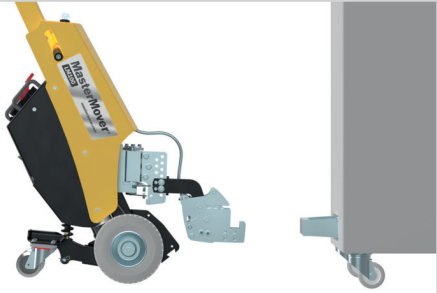

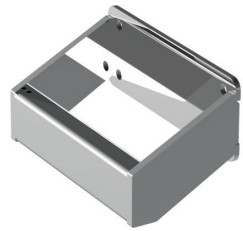

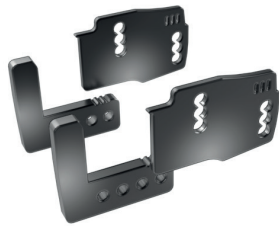
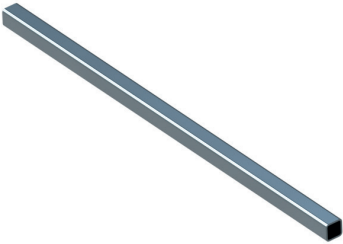
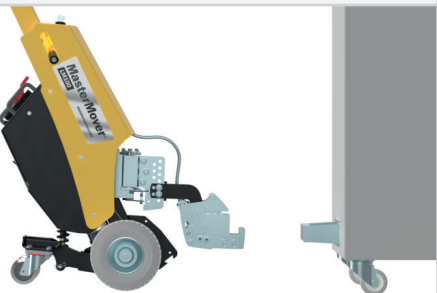




Load Rolling Resistance*

— 8 % — 9 % — 10 %

* Other variables that affect load moving capability could include quality of floor/terrain and the type/condition/quality of load wheels.



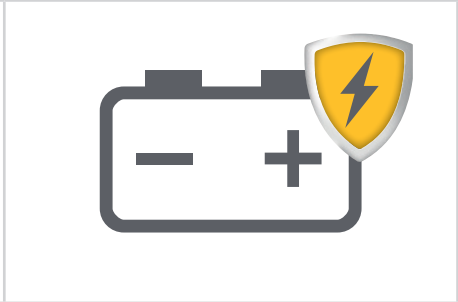
Couplings

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	
		


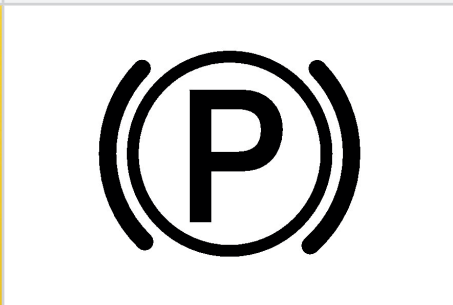
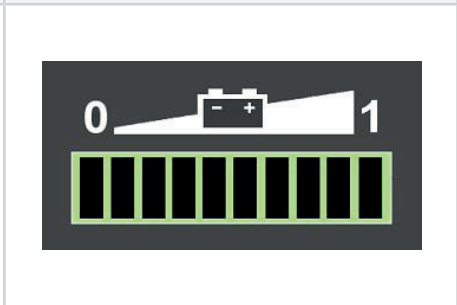


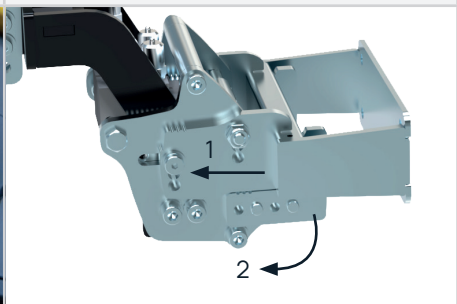
Custom Couplings

Where required, custom coupling solutions can be designed by our in-house Design and Engineering team.

Machine Options

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

Machine Safety Features

Key Switch	Automatic Parking Brake	Battery Discharge Indicator
 A close-up photograph of a black key switch mounted on a blue circular base. The base has a small 'O' symbol at the top and a '1' symbol on the right. The switch is currently in the 'O' position.	 A black and white symbol consisting of a large letter 'P' inside a circle, with two curved lines on either side of the circle, representing a parking brake.	 A diagram of a battery discharge indicator. It shows a battery symbol with '-' and '+' signs. Below it is a horizontal bar divided into ten segments, with the first two segments filled with green. The number '0' is on the left and '1' is on the right.
Anti-Crush Button	Warning Horn	Two Stage Lock and Load
 A photograph of a red and yellow button on a grey control panel, likely used for anti-crush protection.	 A photograph of a yellow button on a grey control panel, likely used for the warning horn.	 A photograph of a metal locking mechanism with two stages. Arrows and numbers '1' and '2' indicate the sequence of operations for locking and loading.

LM100 Technical Specification

Machine	
Z Code	Z37-00100
Maximum load (on castors)	1,000 kg
Maximum push force	981 N
Maximum pull force	981 N
Combined machine & battery weight	70 kg
Drive type	Twin Electric Motor
Braking	Regenerative
Parking brake	Electromagnetic
Drive wheel type	Non-Marking Rubber
Castor wheel type	Non-Marking Polyurethane
Drive motor power	2 x 0.2 kW
Controller type	DC
Standard machine speed	4.2 KPH
Hare mode speed (With two speed selector switch)	5.4 KPH
Tortoise mode speed (With two speed selector switch)	1.8 KPH
Maximum possible machine speed	6 KPH
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
Wheel diameter	220 mm
Hydraulic Specification	
Maximum Lift Force at the Coupling	Lift 26.7 kg Clamp N/A
AGM Battery	
Z codes	Z37-00300
Battery pack capacity	22 Ah
Maximum distance per charge*	9.3 km
Charge time	4 hrs 30 mins
External Charger	
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	5 A
Phase (single, three)	Single
IP Rating	IP30

LM100 Technical Specification

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

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