

MasterMover®

PS3000+

Battery powered electric tug



PS3000+



Overview

The PoweredSteered range allows a single operator to move the heaviest loads through remote controlled operation. By using wireless technology, the operator can step away from the load to take up the ideal viewing point, maximising safety.

Alongside a remote control operation, the robust design of the PowerSteered range guarantees unrivalled weight-moving performance. A secure coupling system ensures maximises connection to the load, and a compact machine footprint delivers maximum manoeuvrability.

PowerSteered electric tugs are available with MultiLink technology, which allows multiple electric tugs to work together under the control of a single operator, enabling combined weight moving performance and unrivalled manoeuvrability.

In addition, PowerSteered machines are also available as Automated Guided Vehicles (AGV) for maximum ROI, safety and operational efficiency.

Key Features

Safety

- Full wireless operation for maximum visibility
- Audible horn, flashing beacon, performance monitoring and emergency safety shut-off
- Speed control with two-speed selector switch

Performance

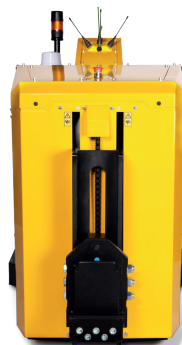
- Highly manoeuvrable for precise movement in tight spaces
- Unrivalled visibility for operators
- Powerful hydraulic system maximises load security and power holding loads even on slopes
- MultiLink and AGV options enable future scalability

Power

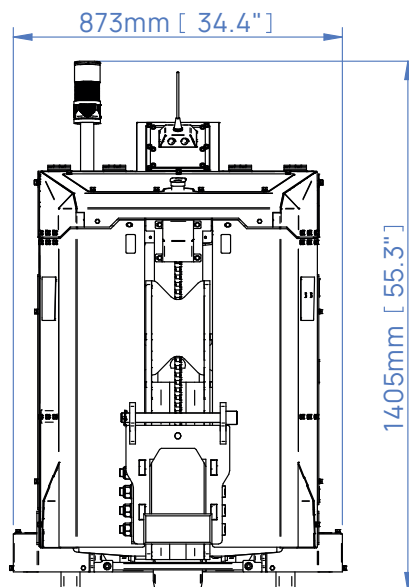
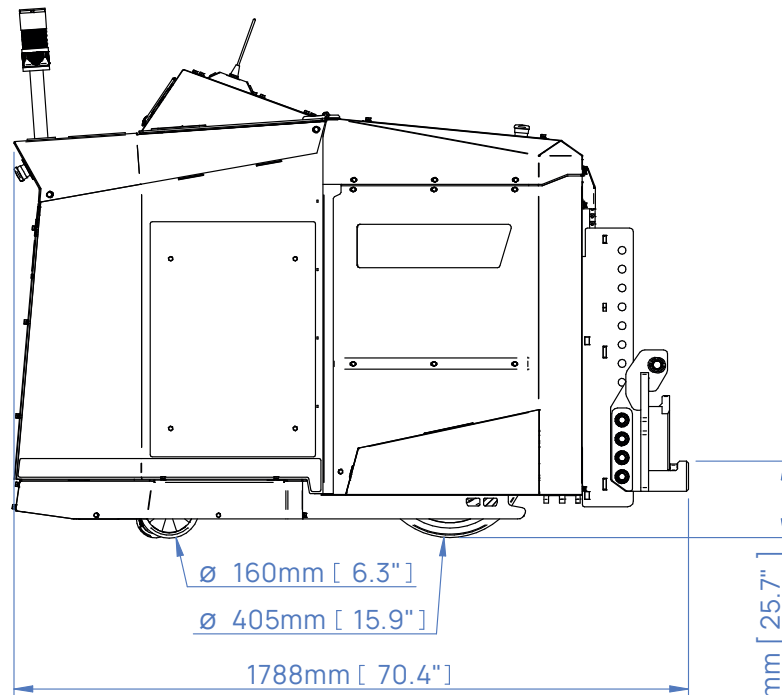
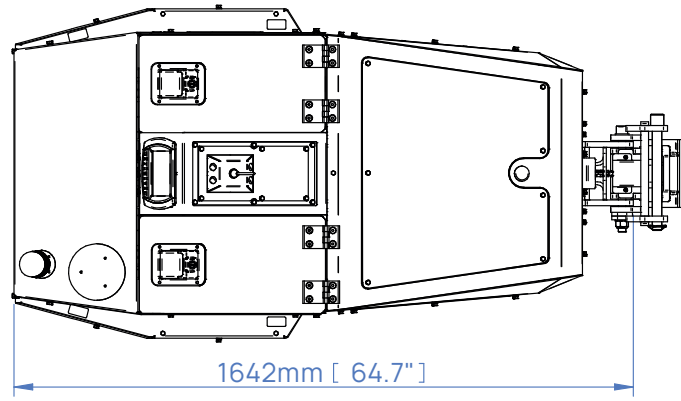
- High performance, maintenance-free interchangeable batteries for 24/7 operation
- Optional Battery Protection System maximises longevity
- Compact design, yet high power output

Connection

- Heavy-duty hydraulic coupling system ensures maximum load security and performance
- Self-levelling hydraulics enable secure movements even on slopes
- Optional smart coupling allows for MultiLink capabilities



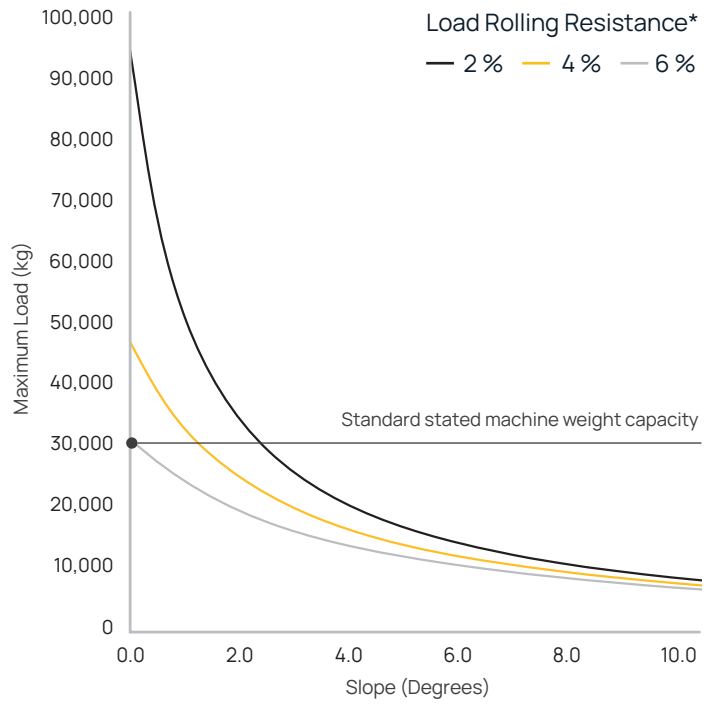
Dimensions



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.





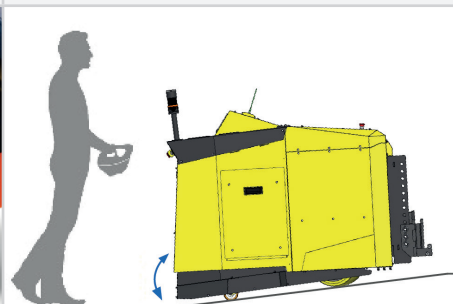

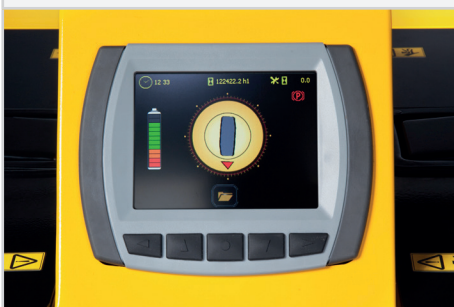





* Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.







In Application: PowerSteered



Standard Safety Features

Emergency Stop Button	Flashing Light and Motion Bleeper	Automatic Parking Brake
		
Warning Horn	Floating Castor Guard	Remote Control
		
Display Screen	Two Speed Selector Switch	Auto Hydraulics
		
Key Switch		
		

Machine Options

<p>Additional AGM Battery Z82-00300</p>	<p>Additional Wireless E-Stop Z82-00509</p>	<p>Battery Charging Station Z82-00403</p>
 A yellow and black rectangular AGM battery unit with a handle on the side.	 A yellow handheld wireless emergency stop device with a digital display and several buttons.	 A yellow and black charging station with a battery mounted on top and a charging cable.
<p>Battery Transportation Trolley Z82-00500</p>	<p>Status Light† Z82-00501</p>	<p>Battery Protection System Z82-00508</p>
 A yellow and black trolley with a handle and wheels, designed for transporting batteries.	 A clear, cylindrical status light mounted on a black base with blue indicator lights.	 A graphic icon of a battery with a plus sign, a minus sign, and a shield with a lightning bolt, representing a protection system.

Couplings

CombiCoupling

Z82-00604 male | Z82-00700 female



Smart Coupling+

Z82-00605 male | Z82-00701 female



Custom Engineering

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

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

Technical Specification

Machine	
Z Code	Z82-00101
Maximum load (on castors on rails)	30,000 kg 120,000 kg
Maximum force (push pull)	18,632 N 18,632 N
Machine weight	1,022 kg
Battery weight (standard)	249 kg
Combined machine & battery weight	1,271 kg
Drive type	Electric
Braking	Regenerative
Parking brake	Electromagnetic
Drive wheel type	Non-marking Polyurethane
Castor wheel type	Non-marking Polyurethane
Drive Wheel diameter	405 mm
Point loading	0.63 (kg/mm ²) 6.19 [N/mm ²]
Drive motor power	5 kW
Controller type	AC
Hare mode speed (With two speed selector switch)	4 KPH
Tortoise mode speed (With two speed selector switch)	2 KPH
Maximum slope*	8°
Voltage	48 v
Noise level	Motor ≤80 dBA Flashing light ≤85 dBA Horn ≤112 dBA
Metal work finish	Powder coat paint & zinc plated
IP rating	IP54
Hydraulic Specification	
Maximum Lift Force at the Coupling	3,997 kg
AGM Battery	
Z codes	Z82-00300
Battery pack capacity	120 Ah
Maximum distance per charge*	4 km
Charge time (External Internal charger)	6 hrs
External Charger	
Product code	Z82-00400
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	20 A
Phase (single, three)	Single
IP Rating	IP30

Technical Specification

Internal Charger	
Product code	Z82-00401
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	20 A
Phase (single, three)	Single
IP Rating	IP30
Coupling	
CombiCoupling (male female)	Optional
Smart Coupling† (male female)	Optional
Safety	
Key Switch	Standard
Emergency Stop	Standard
Display Screen	Standard
Two Speed Selector Switch	Standard
Automatic Parking Brake	Standard
Warning Horn	Standard
Auto Hydraulics	Standard
Integrated Lifting and Tie-Down Points	Standard
Floating Castor Guard	Standard
Remote Control	Standard
Flashing Safety Light and Motion Bleeper	Standard
Options	
Additional AGM Battery	Optional
Battery Transportation Trolley	Optional
Status Light‡	Optional
Battery Protection System	Optional
Wireless E-Stop	Optional
Battery Charging Station	Optional

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