

MasterMover®

ATP400

Battery powered electric tug



ATP400



Overview

The AllTerrain range enables the safe movement of heavy loads on castors and on rails. Featuring an intuitive design, this range enables a single operator to easily push and pull loads with little effort.

With a design focused on durability and performance even in tough environments, the AllTerrain range can work outside on rough flooring and on slopes. The AllTerrain range is suited to move heavy loads on both castors and rails.

With a range of couplings available, units can be used as plug-and-play pushers or to push, pull and steer heavy loads.

An optional remote control system is available to improve visibility and ease of pushing and pulling heavy loads during linear movements. An adjustable coupling height makes the range easy to integrate with existing systems and equipment.

Key Features

Safety

- Audible horn, flashing safety light, anti-crush button and emergency stop button
- Speed control with optional two-speed selector switch
- Optional remote control for maximum visibility on linear movements

Performance

- Heavy-duty industrial units able to work on rough terrain
- Puncture-proof, non-marking drive wheels able to gain traction on rough floor surfaces
- Durable design suited for working in the toughest of environments

Power

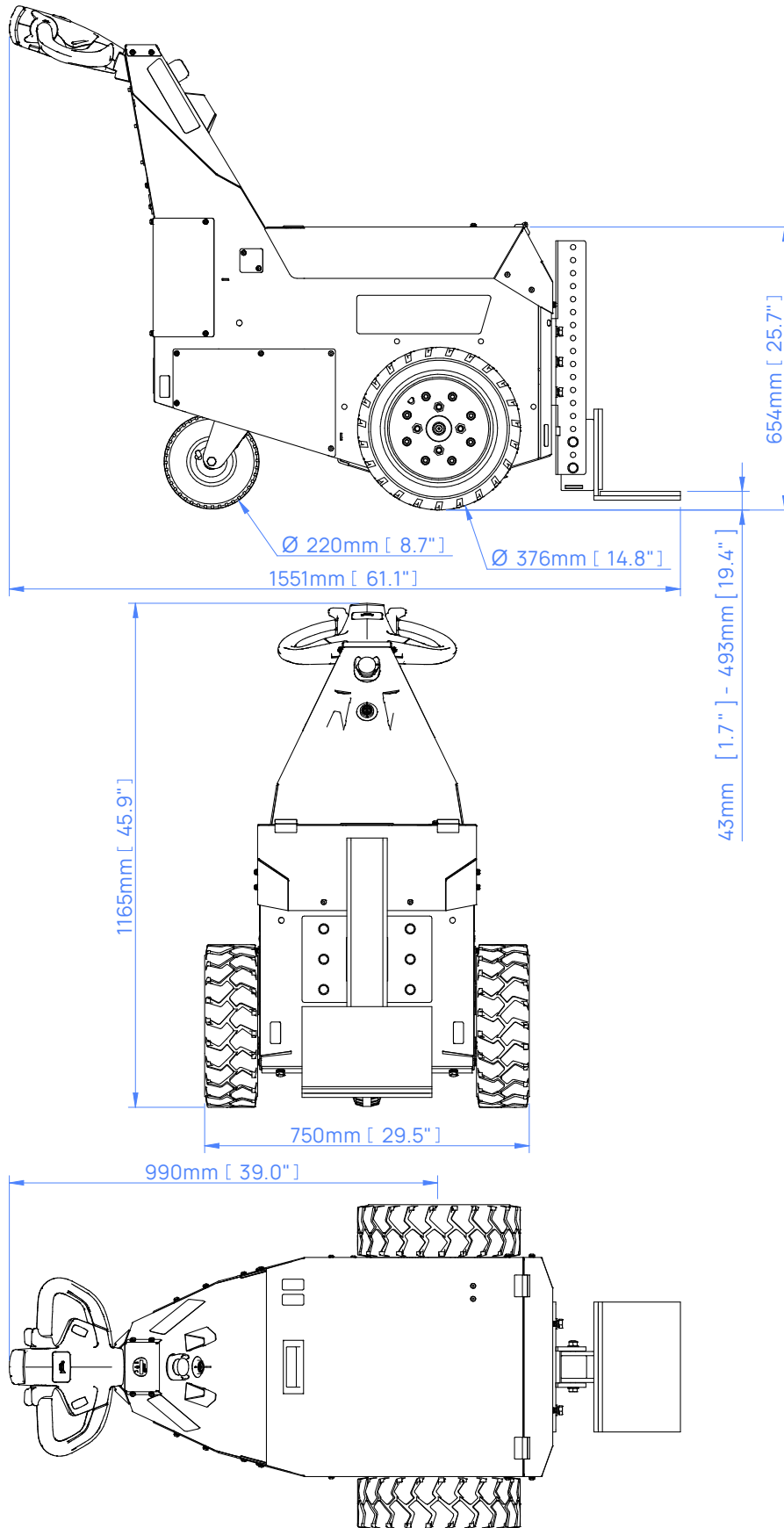
- Powerful AC motor optimises both speed and power
- Adaptable motor able to operate at slow and fast speeds and different acceleration rates
- High-performance AGM maintenance-free batteries

Connection

- Range of coupling options suited to moving loads on rails and castors
- Custom coupling designs available for specialist needs
- Secure bolt-on couplings for applications requiring controlled, powerful pulling movements
- Plug-and-play coupling options to push heavy wheeled loads



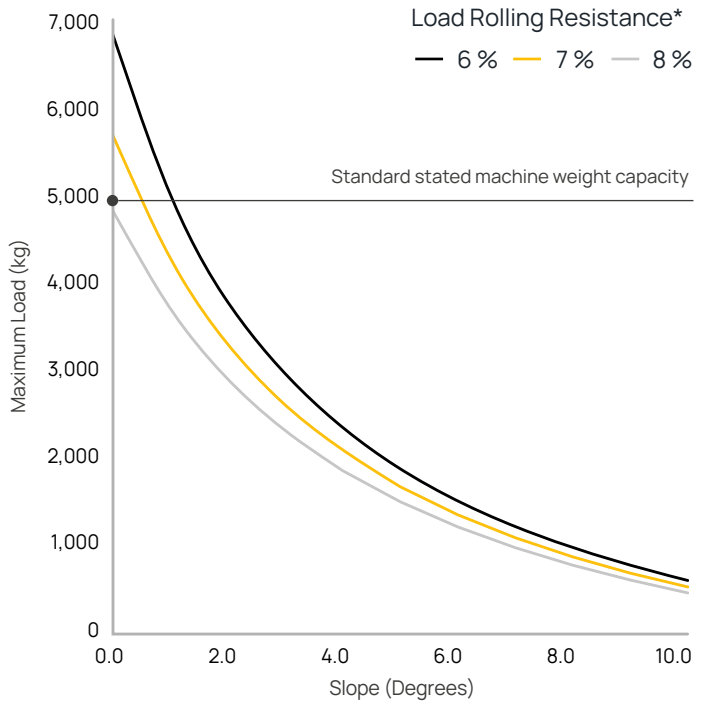
Dimensions



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.






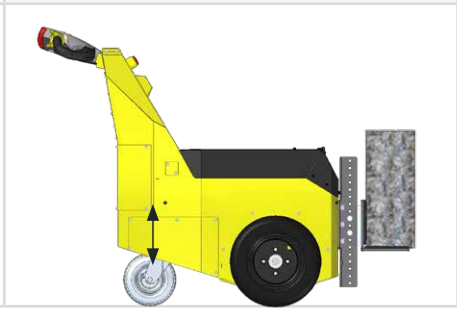



* Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.

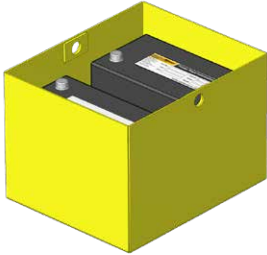




In Application: AllTerrain



Machine Safety Features

| | | |
|--|--|---|
| Emergency Stop Button | Anti-Crush Button | Automatic Parking Brake |
|  |  |  |
| Warning Horn | Battery Discharge Indicator | Suspension System |
|  |  |  |
| Key Switch | | |
|  | | |

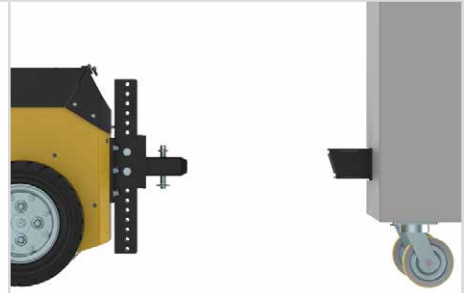
Machine Options

| | | |
|--|---|---|
| <p>Additional AGM Battery Z40-00300</p> | <p>Remote Control Z40-00500</p> | <p>Flashing Light & Motion Bleeper Z40-00501</p> |
|  A yellow rectangular box containing two AGM batteries. |  A yellow and red handheld remote control with a small screen and several buttons. |  A vertical black and orange flashing light assembly on a silver pole. |
| <p>Wheel Protectors Z40-00502</p> | <p>Two Speed Selector Switch Z40-00505</p> | |
|  A close-up view of a yellow wheel protector mounted on a black tire. |  A close-up view of a black two-speed selector switch with a yellow button. | |

Couplings

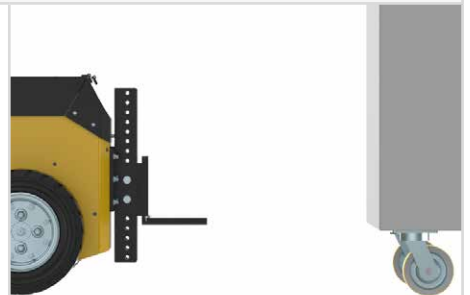
BoxCoupling

Z40-00601 male | Z40-00701 female



L Shaped Push Plate

Z40-00602 male



Push Plate

Z40-00603 male



York Coupling

Z40-00604 male



Couplings

Tetra Coupling
Z40-00605 male



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 | |
|--|--|
| Product code | Z40-00101 |
| Maximum load (on castors on rails) | 5,000 kg 80,000 kg |
| Maximum force (push pull) | 3,924 N 3,433 N |
| Machine weight | 204 kg |
| Battery weight (standard 102Ah) | 80 kg |
| Combined machine & battery weight (standard) | 284 kg |
| Drive type | Electric |
| Braking | Regenerative |
| Parking brake | Electromagnetic |
| Drive wheel type | Solid Rubber |
| Castor wheel type | Foam Filled Rubber |
| Drive motor power | 2 kW |
| Controller type | AC |
| Standard machine speed | 2 KPH |
| Hare mode speed (With two speed selector switch) | 3 KPH |
| Tortoise mode speed (With two speed selector switch) | 1.2 KPH |
| Maximum slope | 10° |
| 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 | 375 mm |
| AGM Battery | |
| Product code | Z41-00300 Z41-00301 |
| Battery pack capacity | 102 Ah 119 Ah |
| Maximum distance per charge* | 12.1 km 13.4 km |
| Charge time (External) | 8 hrs 15 mins 7 hrs 30 mins |
| Charge time (Internal) | 8 hrs 15 mins 7 hrs 30 mins |
| External Charger | |
| Product code | Z40-00403 |
| Input voltage | 85 - 265 v |
| Hertz | 50 - 60 Hz |
| Amps | 15 A |
| Phase (single, three) | Single |
| IP Rating | IP30 |

Technical Specification

| Internal Charger | |
|--|------------|
| Product code | Z40-00405 |
| Input voltage | 85 - 265 v |
| Hertz | 50 - 60 Hz |
| Amps | 15 A |
| Phase (single, three) | Single |
| IP Rating | IP30 |
| Lithium Battery | |
| Product code | Z41-00303 |
| Battery pack capacity | 78 Ah |
| Maximum distance per charge* | 9.5 km |
| Charge time (External charger) | 2 hrs |
| Charging | |
| Input voltage | 85 - 265 v |
| Hertz | 50 - 60 Hz |
| Amps | 40 A |
| Phase (single, three) | Single |
| IP rating | IP30 |
| Coupling | |
| BoxCoupling (male I female) | Optional |
| L Shaped Push Plate Coupling (male) | Optional |
| Push Plate Coupling (male) | Optional |
| York Coupling (male) | Optional |
| Tetra Coupling (male) | Optional |
| Safety | |
| Key Switch | Standard |
| Emergency Stop Button | Standard |
| Automatic Parking Brake | Standard |
| Battery Discharge Indicator | Standard |
| Anti-Crush Button | Standard |
| Warning Horn | Standard |
| Suspension System | Standard |
| Options | |
| Additional AGM Battery | Optional |
| Flashing Safety Light and Motion Bleeper | Optional |
| Two Speed Selector Switch | Optional |
| Remote Control | Optional |
| Wheel Protectors | Optional |

MasterMover®

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UK
CE ISO 9001 ISO 45001