

**MasterMover®**

# ATT400

Battery powered electric tug



# ATT400



## 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

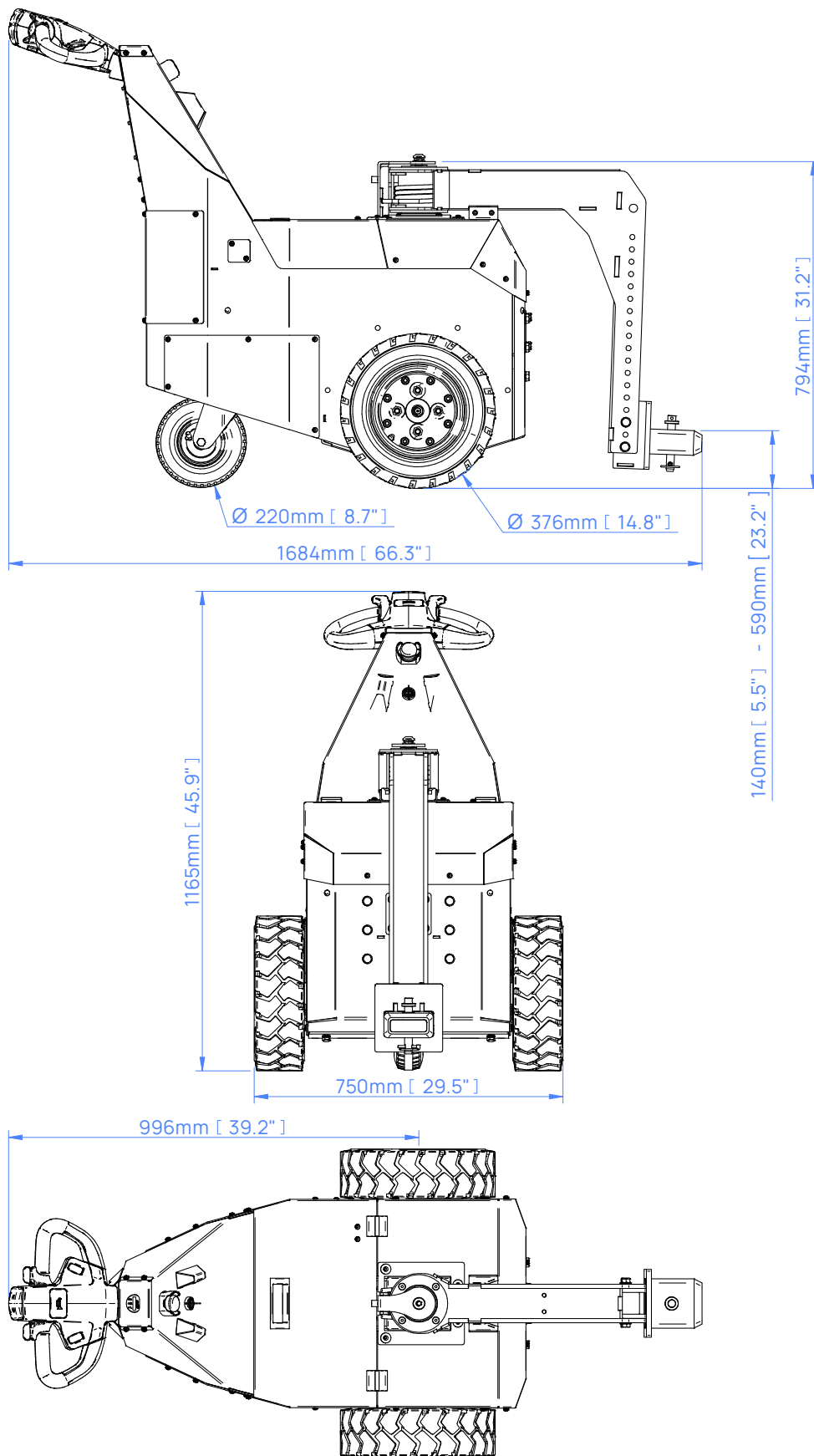
- Powerful AC motor optimises both speed and power
- Adaptable motor able to operate at slow and fast speeds and different acceleration rates
- High-performance AGM maintenance-free batteries

### 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



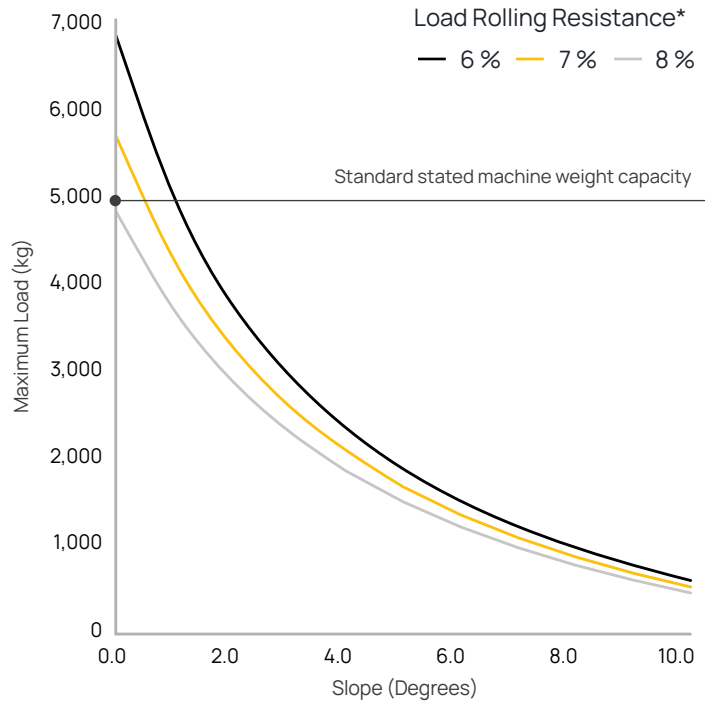
# Dimensions



# 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.






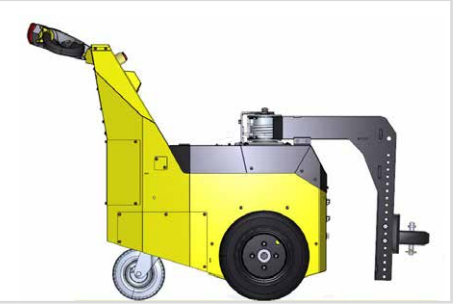



\* Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.





## In Application: AllTerrain



# Machine Safety Features

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

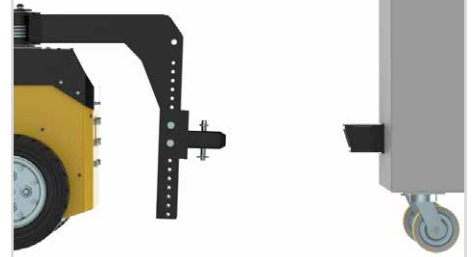
# Machine Options

<p>Flashing Light &amp; Motion Bleeper Z41-00501</p>	<p>Two Speed Selector Switch Z41-00505</p>	<p>Remote Control Z41-00500</p>
		
<p>Wheel Protectors Z41-00502</p> 		

# Couplings

BoxCoupling

Z40-00601 male | Z40-00701 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](https://mastermover.com/custom-solutions)  
If you'd like to discuss your requirements, speak to your sales representative or email: [sales@mastermover.com](mailto:sales@mastermover.com)

# Technical Specification

Machine	
Product code	Z41-00101
Maximum load (on castors   on rails)	5,000 kg   40,000kg
Maximum force (push   pull)	3,924 N   3,433 N
Machine weight	273 kg
Battery weight (standard)	65 kg
Combined machine & battery weight (standard)	338 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	Z41-00402
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		Z41-00404
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
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		
Flashing Safety Light and Motion Bleeper		Optional
Two Speed Selector Switch		Optional
Remote Control		Optional
Wheel Protectors		Optional

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UK  
CE ISO 9001 ISO 45001