

MasterMover®

TOW200

Battery powered electric tow tug



TOW200



Overview

The MasterTow range of powerful, easy-to-use electric tow tugs, is ideally suited to towing loads weighing up to 20,000kg. The range uses its own weight to deliver consistent traction, enabling the effortless movement of loads both inside, outside and on slopes.

Boasting intuitive operator controls and safety built-in as standard, the range provides operators with complete control when moving heavy loads. With a simple and effective coupling system, the MasterTow

range guarantees load security and is perfectly suited to moving individual and multiple loads linked together.

Take advantage of innovative technology with Electric Steer (ES), available from the TOW600 ES upwards. With Electric Steer, benefit from instantaneous steering and added performance in adverse conditions. The MasterTow range is available with Remote Control, for maximum operator visibility, and Autonomous (AGV) solutions for maximum ROI, safety and efficiency.

Key Features

Safety

- Audible horn, flashing light beacon and emergency stop
- Machine crawl coupling assist for easy connection
- Multiple speed settings for complete control

Performance

- Optimised weight distribution for guaranteed traction
- Start, move and stop movement on slopes
- Powerful performance delivers high torque even at low speeds

Power

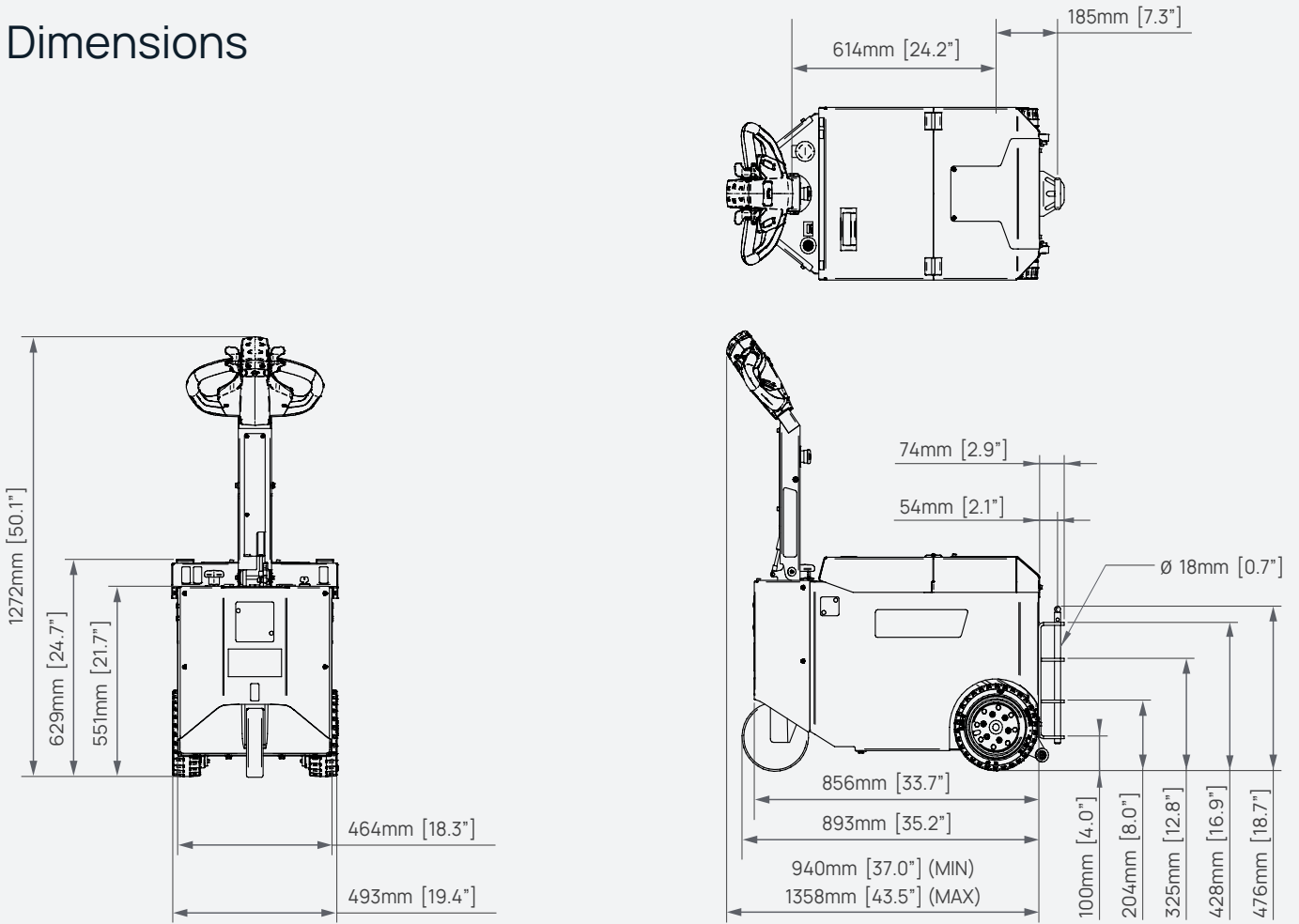
- Optional Battery Protection System maximises battery life
- High performance, interchangeable batteries for 24/7 operation
- Lithium batteries available

Connection

- Easy and universal coupling options
- Lockable couplings to keep loads secure
- Variety of coupling options available



Dimensions



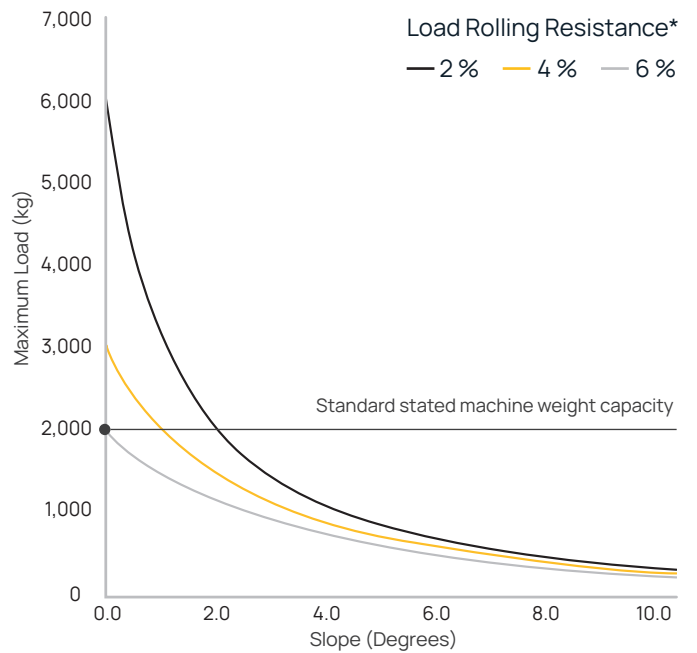
Wireless Handset

The ergonomic design of the remote control gives the operator access to the complete range of movement and safety options.†




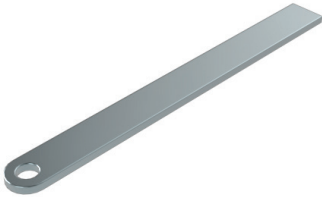

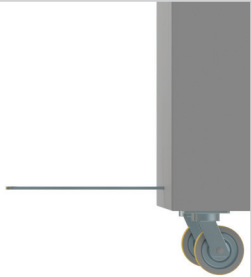


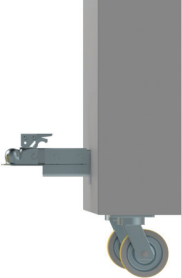

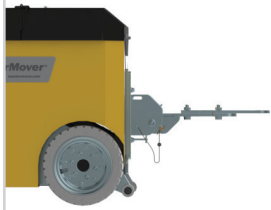

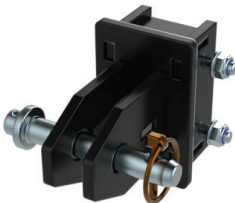



† Remote control operation is optional

Slope Performance



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






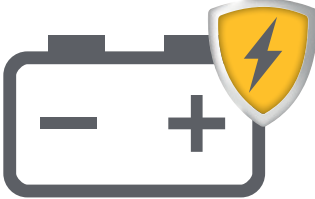
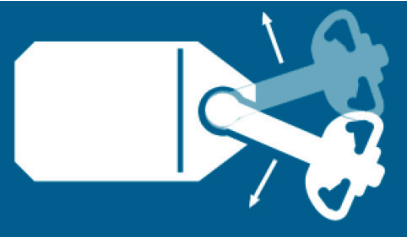
Couplings

Pin Coupling Z49-00600 male			
			
Tow Ball Coupling Z49-00601 male			
			
Tow Arm Coupling Z49-00602 male			
			
Box Coupling Z49-00603 male Z49-00700 female			
			
No Coupling Z49-00604			



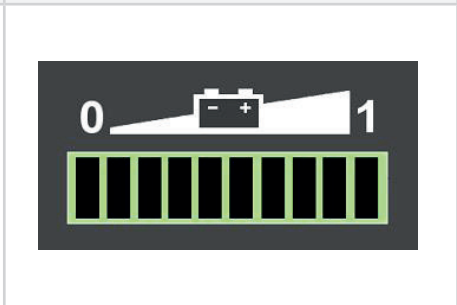

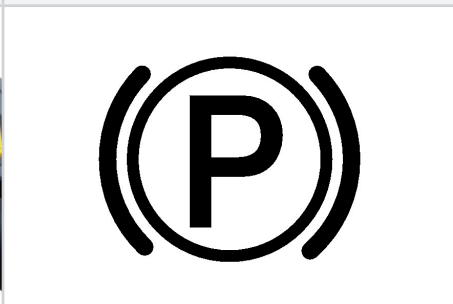


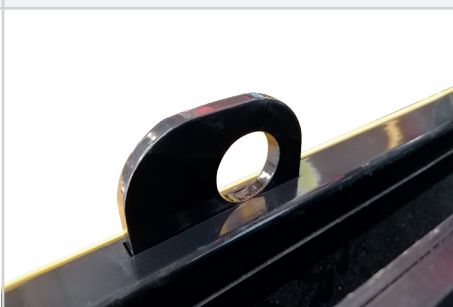

Custom Couplings

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

Machine Options

<p>Flashing Light & Motion Beeper Z49-00500</p>	<p>Machine Crawl Coupling Assist Z49-00501</p>	<p>Fifth Wheel Z49-00503</p>
		
<p>Remote Control Z49-00504</p>	<p>Two Speed Selector Switch Z49-00505</p>	<p>Battery Protection System Z49-00506</p>
		
<p>Tiller Steering Z49-00509</p>		
		

Machine Safety Features

Key Switch	Emergency Stop Button	Battery Discharge Indicator
 A close-up of a key switch on a yellow machine. The switch is black with a blue ring around it. The ring has a '0' at the top and a '1' on the right side. The switch is currently in the '0' position.	 A red emergency stop button on a yellow machine. The button is circular with a yellow ring around it. The ring has the word 'EMERGENCY' at the top and 'STOP' at the bottom. There is a small symbol of a hand with a lightning bolt on the left side of the ring.	 A battery discharge indicator on a black background. It shows a battery symbol with a minus sign on the left and a plus sign on the right. Below the battery symbol is a row of ten green bars of varying lengths, representing the battery's charge level. The number '0' is on the left and '1' is on the right.
Anti-Crush Button	Automatic Parking Brake	Warning Horn
 A red and yellow anti-crush button on a grey machine. The button is rectangular with rounded corners and a red top half and a yellow bottom half.	 A black 'P' symbol inside a circle with two curved lines on either side, representing a parking brake.	 A yellow warning horn button on a grey machine. The button is rectangular with rounded corners and a yellow top half and a grey bottom half. There is a small horn symbol on the button.
Automatic Cut Off	Lifting Points	Tie-Down Points
 A silhouette of a person standing next to a yellow MasterMover machine. The machine's front panel is tilted upwards, and a red and yellow button is visible on the panel.	 A black lifting point on a yellow machine. The lifting point is a circular handle with a hole in the center.	 A yellow tie-down point on a yellow machine. The tie-down point is a metal handle with a hole in the center.

TOW200 Technical Specification

Machine	
Z Code	Z49-00100
Maximum load (on castors)	2,000 kg
Maximum push force	785 N
Maximum pull force	1,177 N
Combined machine & battery weight	375 kg
Drive type	Electric
Braking	Regenerative
Parking brake	Electromagnetic
Drive wheel type	Solid Rubber
Castor wheel type	Polyurethane
Drive motor power	0.8 kW
Controller type	DC
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 possible machine speed	6 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	260 mm
AGM Battery	
Z codes	Z49-00300
Battery pack capacity	73 Ah
Maximum distance per charge*	16.6 km
Charge time (External charger)	5 hrs 30 mins
Charge time (Internal charger)	5 hrs 30 mins
External Charger	
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	15 A
Phase (single, three)	Single
IP Rating	IP30
Internal Charging	
Input voltage	85 - 265 v
Hertz	50 - 60 Hz

TOW200 Technical Specification

Amps	15 A
Phase (single, three)	Single
IP rating	IP30
Lithium Battery	
Z Code	Z49-00301
Battery pack capacity	79 Ah
Maximum distance per charge*	17.9 km
Charge time (External charger)	2 hrs
External Charging	
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	40 A
Phase (single, three)	Single
IP rating	IP30
Coupling	
Pin Coupling (male)	Optional
Tow Ball Coupling (male)	Optional
Tow Arm Coupling (male)	Optional
Box Coupling (male female)	Optional
No Coupling	Optional
Safety	
Key Switch	Standard
Emergency Stop	Standard
Battery Discharge Indicator	Standard
Anti-Crush Button	Standard
Automatic Parking Brake	Standard
Warning Horn	Standard
Automatic Cut Off	Standard
Lifting Points	Standard
Tie-Down Points	Standard
Options	
Flashing Safety Light and Motion Bleeper	Optional
Machine Crawl Coupling Assist	Optional
Fifth Wheel	Optional
Two Speed Selector Switch	Optional
Battery Protection System	Optional
Remote Control	Optional
Tiller Steering	Optional

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