MasterMover

TOW1200 ES

Battery powered electric tow tug



TOW1200 ES



Overview

The MasterTow range of powerful, easy-to-use electric tow tugs, is ideally suited to towing heavy loads. 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

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

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.

Power

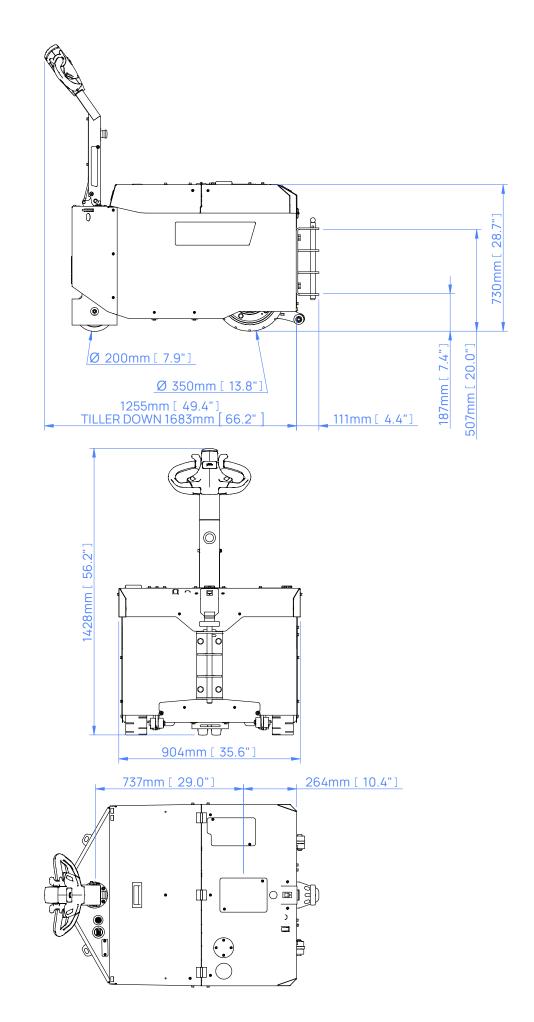
- Optional Battery Protection System maximises battery life
- High performance, interchangeable batteries for 24/7
 operation
- Lithium batteries available

Connection

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



Dimensions

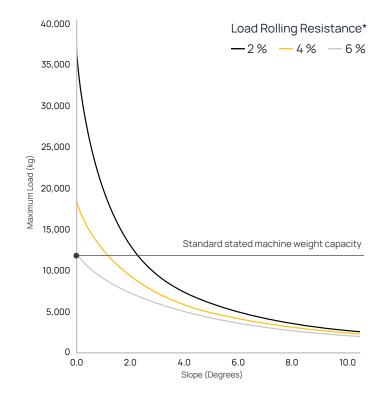


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Slope Performance

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: MasterTow



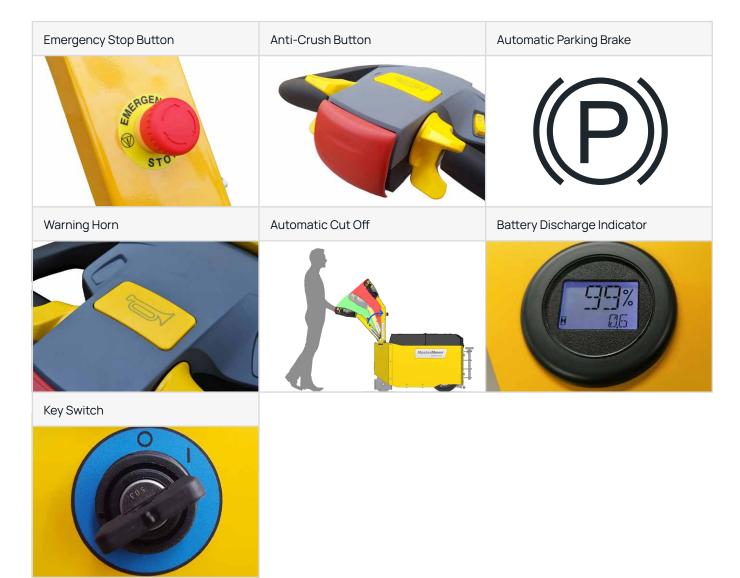






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Machine Safety Features



Machine Options

Additional AGM Battery Z87-00301	Machine Crawl Coupling Assist Z87-00501	Two Speed Selector Switch Z87-00505
Recently and the second		
Machine Crawl Coupling Assist Z87-00501	Fifth Wheel Z87-00503	Battery Protection System Z87-00506
Remote Control	Z87-00504	
	Allow your operator to take up the ideal vantage point and step away from the load itself, with remote control operation. Offering precise and controlled movement, the handset also features audible horn and emergency stop functions for added safety.	
Wireless Autosteer	Z87-00507	
	Combining the power of remote control operation and line follow navigation, Wireless AutoSteer means the electric tug follows a predefined route marked out by a line on the floor, with the operator controlling speed. A great option for tight spaces and when movement should follow the same route, every time. The machine can still be used through standard manual operation when required.	
AGV Line Follow	Z87-00508	
	Benefit from autonomous operation, and remove the need for operators to move loads. Your electric tug will autonomously travel between locations, using a line on the floor for navigation. Barcodes can additionally be used to change machine behaviours, such as to speed up, slow down or stop the machine. Scanners and safety systems identify risks and take appropriate action, restarting movement when a hazard is removed. The machine can still be used through standard manual operation when required.	

Couplings



No Coupling Z87-00604



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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

achine		
Product code	Z87-00100	
Maximum load (on castors I on rails)	12,000 kg 48,000 kg	
Maximum force (push I pull)	4,707 N I 7,061 N	
Machine weight	965 kg	
Battery weight (standard)	151 kg	
Combined machine & battery weight (standard)	1,116 kg	
Drive type	Electric	
Braking	Regenerative	
Parking brake	Electromagnetic	
Drive wheel type	Solid Rubber	
Castor wheel type	Non Marking Vulcanized Elastic	
Drive wheel diameter	350 mm	
Point loading	Drive Wheel 0.052 (kg/mm²) 0.51 [N/mm²] Castor 0.063 (kg/mm²) 0.62 [N/mm²]	
Drive motor power	2 x 1.5 kW	
Controller type	AC	
Standard machine speed	2 KPH	
Hare mode speed (With two speed selector switch)	3 KPH	
Fortoise mode speed (With two speed selector switch)	1.2 KPH	
Maximum slope	8°	
/oltage	24 v	
Noise level	Motor ≤80 dBA Flashing light ≤85 dBA Horn ≤112 dBA	
Netal work finish	Powder coat paint & zinc plated	
Prating	IP44	
AGM Battery		
Product code	Z87-00301	
Battery pack capacity	204 Ah	
Maximum distance per charge*	8.6 km	
Charge time (External I Internal charger)	7 hrs 30 mins 10 hrs 30 mins	
External Charger		
Product code	Z87-00400	
nput voltage	85 - 265 v	
Hertz	50 - 60 Hz	
Amps	50 - 60 Hz 30 A	
Phase (single, three)	Single	
P Rating	IP30	
Nating	IFJU	
nternal Charging		

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Technical Specification

Hertz	50 - 60 Hz
	50 - 60 HZ
Amps	20 A
Phase (single, three)	Single
Prating	IP30
Lithium Battery	
Product code	Z87-00302
Battery pack capacity	120 Ah
Maximum distance per charge*	5 km
Charge time (External charger)	3 hrs
External Charging	
Product code	Z87-00402
nput voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	40 A
Phase (single, three)	Single
Prating	IP30
Coupling	
Pin Coupling (male)	Optional
Tow Ball Coupling (male)	Optional
Tow Arm Coupling (male)	Optional
Box Coupling (male I female)	Optional
No Coupling	Optional
Safety	
Key Switch	Standard
Emergency Stop	Standard
Battery Discharge Indicator	Standard
Anti-Crush Button	Standard
Warning Horn	Standard
Automatic Cut Off (as tiller arm returns to vertical)	Standard
Automatic Parking Brake	Standard
ntegrated Lift Points	Standard
ntegrated Tie-Down Points	Standard
Options	
Additional AGM Battery	Optional
Flashing Safety Light and Motion Bleeper	Optional
Machine Crawl Coupling Assist	Optional



Technical Specification

Two Speed Selector Switch	Optional
Battery Protection System	Optional
Remote Control	Optional
Wireless Autosteer	Optional
AGV Line Follow	Optional



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UK (() ISO 9001 / ISO 45001