## **MasterMover**

# MT20/800+ SS

Battery powered electric tug



## MT20/800+ SS



#### Overview

The Stainless Steel range of electric tugs delivers the same level of performance as our mild steel ranges, but with the added benefit of seamlessly integrating into sterile environments.

Whether it's a biopharmaceutical cleanroom suite or a food manufacturing facility, our stainless steel electric tugs remove manual handling and drive operational efficiency without compromising the cleanliness of your facility.

Constructed from high-grade 316 stainless steel and with IP ratings of up to IP55 available, stainless steel electric tugs are ideally suited to the stringent requirements of sterile environments.

The Stainless Steel range of electric tow tugs facilitate the controlled movement of loads in tight spaces, with an array of coupling options available that put load security and safety at the forefront.

#### **Key Features**

#### Safety

- Audible horn, flashing safety light, emergency stop button and anti-crush button
- Speed control with an optional two-speed selector switch for maximum control
- · Complete load security with automatic braking

#### Power

- · Optimised motor output to optimise speed and power
- · Maintenance-free, interchangeable battery options
- Powerful, effective, traction generation for smooth performance

#### **Performance**

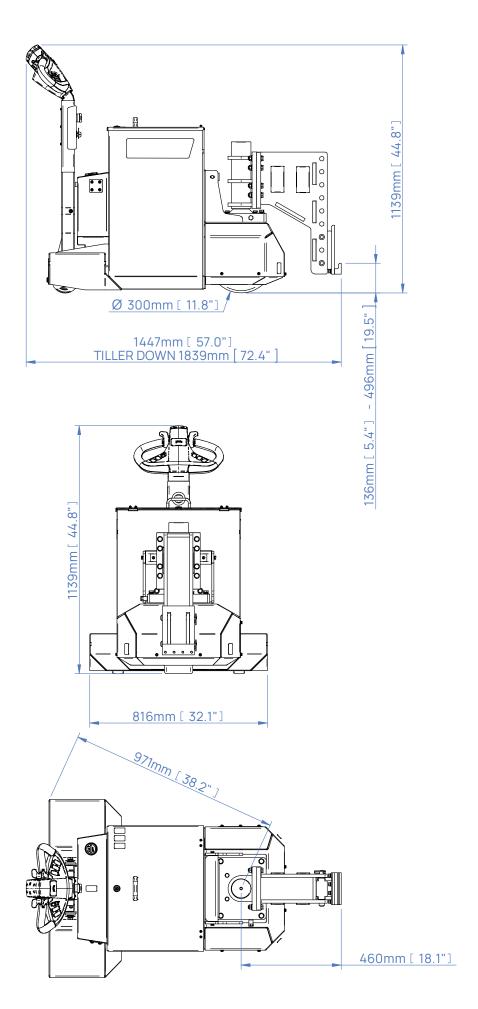
- Powerful weight-moving capabilities suited to every application
- · Maximum traction even on wet floors
- Compact and manoeuvrable to deliver precise movements in even the tightest of spaces

#### Connection

- Secure coupling systems to deliver the controlled movement of loads
- A range of coupling options available to connect to a variety of loads
- · Custom couplings available



### **Dimensions**



MasterMover: MT20/800+ SS

### 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. 12,000

Load Rolling Resistance\*

### In Application: MasterTug Stainless Steel









<sup>10,000

8,000

6,000

4,000

2,000

0

0.0

2.0

4.0</sup>Standard stated machine weight capacity

6 Standard stated machine weight capacity

8 Standard stated machine weight capacity

10,000

10,000

Standard stated machine weight capacity

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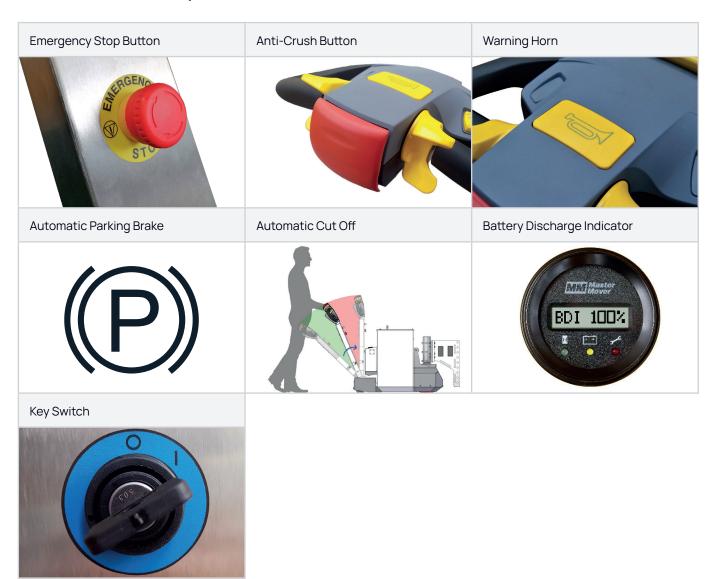
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<sup>\*</sup> Variables that affect rolling resistance include the quality of floor/terrain and the type/condition/quality of castor wheels.

## Standard Safety Features



## Machine Options

Additional Battery Z73-00300	Flashing Light & Motion Beeper Z73-00500	Two Speed Selector Switch <b>Z73-00502</b>
Drive Wheel - 316 Stainless Steel <b>Z73-00503</b>	Drive Wheel - 316 Stainless Steel Extra Grip Z73-00504	Drive Wheel - Extra Grip <b>Z73-00505</b>

#### Couplings





#### **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	Z73-00104	
Maximum load (on castors   on rails)	rails) 8,000 kg I 32,000 kg	
Maximum force (push I pull)	6,768 N I 6,768 N	
Machine weight	320 kg	
Battery weight (standard)	140 kg	
Combined machine & battery weight (standard)	460 kg	
Drive type	Electric	
Braking	Regenerative	
Parking brake	Electromagnetic	
Drive wheel type	Non-Marking Polyurethane	
Castor wheel type	Impact Resistant Nylon	
Drive wheel diameter	300 mm	
Point loading	0.52 (kg/mm²) 5.13 [N/mm²]	
Drive motor power	2 kW	
Controller type	AC	
Standard machine speed (Without two speed selector switch)	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	7∘	
Voltage	24 v	
Noise level	Motor ≤80 dBA I Flashing light ≤85 dBA I Horn ≤112 dBA	
Metal work finish	Stainless Steel 316 grade   240-grit abrasive to 0.6µ satin fini	
IP rating	IP44	
Hydraulic Specification		
Maximum Lift Force at the Coupling	1,843 kg	
Sealed Lead Acid Battery		
Product code	Z73-00300	
Battery pack capacity	179 Ah	
Maximum distance per charge*	11.7 km	
Charge time (External charger)	6 hrs	
External Charger		
Product code	Z73-00400	
Input voltage	85 - 265 v	
Hertz	50 - 60 Hz	
Amps	30 A	
Phase (single, three)	Single	
IP Rating	IP30	

## **Technical Specification**

Lithium Battery	
Product code	Z73-00302
Battery pack capacity	158 Ah
Maximum distance per charge*	10.5 km
Charge time	4 hrs
Charging	
Product code	Z73-00401
Input voltage	85 - 265 v
Hertz	50 - 60 Hz
Amps	40 A
Phase (single, three)	Single
IP rating	IP30
Coupling	
CombiCoupling (male I female)	Optional
BoxCoupling (male I female)	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
Options	
Additional Battery	Optional
Flashing Safety Light and Motion Bleeper	Optional
Two Speed Selector Switch	Optional
Drive Wheel - 316 Stainless Steel	Optional
Drive Wheel - 316 Stainless Steel Extra Grip	Optional
Drive Wheel Extra Grip	Optional



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