

MasterMover®

Worldwide Electric Tug Solutions

MT1500+

Battery Powered Electric Tug



MT1500+

The MasterTug MT1500+ allows a single pedestrian operator to easily push, pull and steer wheeled loads weighing up to a maximum of 15,000kg.

Simple to use controls, lightweight steering and outstanding manoeuvrability deliver an exceptional operator experience, with MasterTug electric tugs able to be used inside, outside, and on slopes. Utilising a patent-protected weight transfer system to generate traction, MasterTug machines are compact, yet highly powerful. A range of coupling options are available, designed to maximise load security.



Side view



Front view



Rear view

KEY FEATURES



Safety

- Audible horn, flashing safety light, emergency stop button, anti-crush button & machine rollback
- Speed control with optional two-speed selector switch
- Secure coupling for attachment to load
- Slide out battery

Performance

- Able to operate on slopes of up to 10 degrees
- Maintenance-free, interchangeable batteries
- Powerful and optimised hydraulics ensure smooth connection

Quality

- FEA certified steel box section chassis and IP44 protection as standard
- Formed steel cowling offers a robust outer shell allowing for easy service access
- Puncture-proof, non-marking tyres
- Parameter lockdown of key features for machine safety and integrity

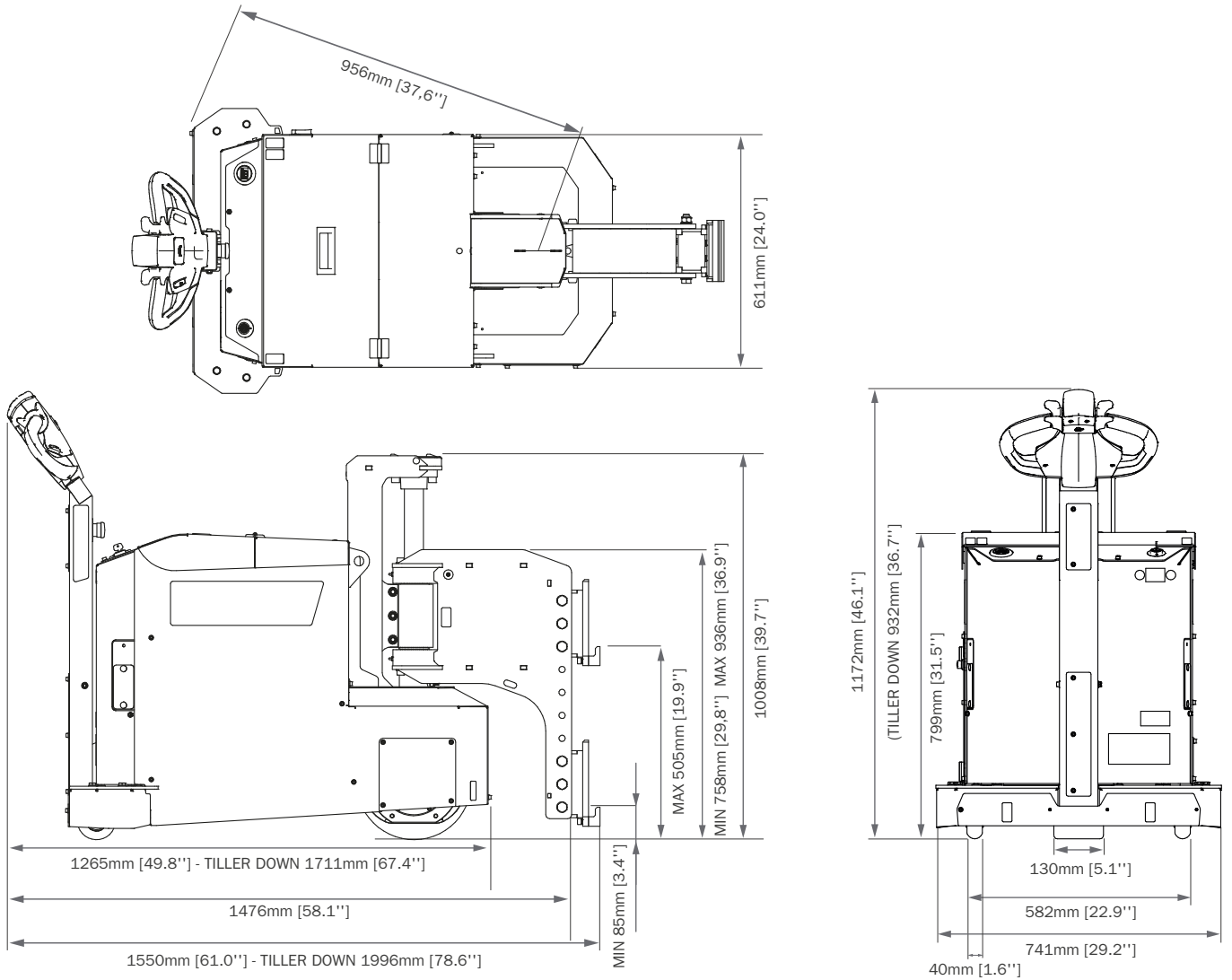
Power

- Adaptable motor able to operate at slow and fast speeds and at different acceleration rates
- Battery Protection System forces recharge at correct battery interval
- AC motor optimises speed and power

Connection

- All couplings allow for weight transfer
- Optional CombiCoupling with patented CombiLock system available
- Mast caters for multiple coupling attachment heights
- CombiCoupling, BoxCoupling and bespoke coupling options available

DIMENSIONS



WIRELESS HANDSET

The ergonomic design of the remote control allows the operator have driving controls at their finger tips.

Directional button
Forward/Reverse
(Proportional)

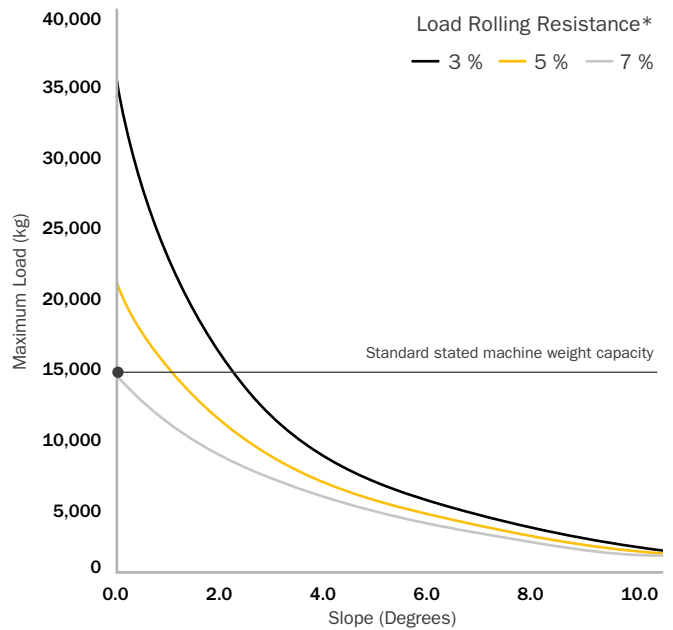
Key

Emergency stop



Power button

PERFORMANCE ON SLOPES



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

COUPLINGS

CombiCoupling



Z64-00600



Z64-00700



BoxCoupling



Z64-00601










Z64-00701



BESPOKE COUPLINGS

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

MACHINE OPTIONS

Flashing light & motion beeper	Two speed selector switch	CombiLock
		
Z86-00500	Z86-00501	Z86-00503
Battery protection system	Single battery transport stand	Single battery transport trolley
		
Z86-00504	Z86-00505	Z86-00506
Wireless control handset		
		
Z86-00507		

SAFETY FEATURES

Key switch



Emergency stop button



Battery discharge indicator



Anti-crush button



Automatic parking brake



Warning horn



Automatic cut off



Lifting points



Tie-down points



Floating castor guard



MT1500+ TECHNICAL SPECIFICATION

Machine	Z Code	Z64-00103
	Maximum load (on castors)	15,000 kg
	Maximum push force	10,297 N
	Maximum pull force	10,297 N
	Combined machine & battery weight	491 kg
	Drive type	Electric
	Braking	Regenerative
	Parking brake	Electromagnetic
	Drive wheel type	Non-marking polyurethane
	Castor wheel type	Non-marking polyurethane
	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 possible machine speed	6 KPH
	Maximum slope	8°
	Voltage	24 v
	Noise level	Motor ≤80 dBA Flashing light ≤85 dBA Horn ≤112 dBA
	Metal work finish	Powder coat paint & zinc plate
IP rating	IP44	
Wheel	Wheel diameter	300 mm
	Point loading	0.5 (kg/mm ²) 4.9 [N/mm ²]
H	Maximum lift force at the coupling	2,161 kg
AGM battery	Z codes	Z64-00300
	Battery pack capacity	179 Ah
	Maximum distance per charge*	6.5 km
	Charge time (External charger)	6 hrs
	Charge time (Internal charger)	9 hrs
External charging	Input voltage	85 - 265 v
	Hertz	50 - 60 Hz
	Amps	30 A
	Phase (single, three)	Single
	IP Rating	IP30
Internal charging	Input voltage	85 - 265 v
	Hertz	50 - 60 Hz
	Amps	20 A
	Phase (single, three)	Single
	IP rating	IP30

MT1500+ TECHNICAL SPECIFICATION

Lithium battery	Z code	Z86-00302
	Battery pack capacity	120 Ah
	Maximum distance per charge*	4.3 km
	Charge time (External charger)	3 hrs
External charging	Input voltage	85 - 265 v
	Hertz	50 - 60 Hz
	Amps	40 A
	Phase (single, three)	Single
	IP rating	IP30
CP	CombiCoupling (male / female)	Optional
	BoxCoupling (male / female)	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 as tiller arm returns to vertical	Standard
	Integrated lift points	Standard
	Integrated tie-down points	Standard
	Floating castor guard	Standard
Options	Flashing safety light and motion bleeper	Optional
	Two speed selector switch	Optional
	CombiLock	Optional
	Battery protection system	Optional
	Single battery transportation stand	Optional
	Single battery transportation trolley	Optional
	Wireless control handset	Optional

H - Hydraulic Specification

CP - Coupling

* Based on 75% of maximum machine load weight on a flat floor on castors.