

**MasterMover®**

# Performance Range

Heavy-duty industrial tugs and tows  
to simplify the movement of loads up  
to 70,000kg

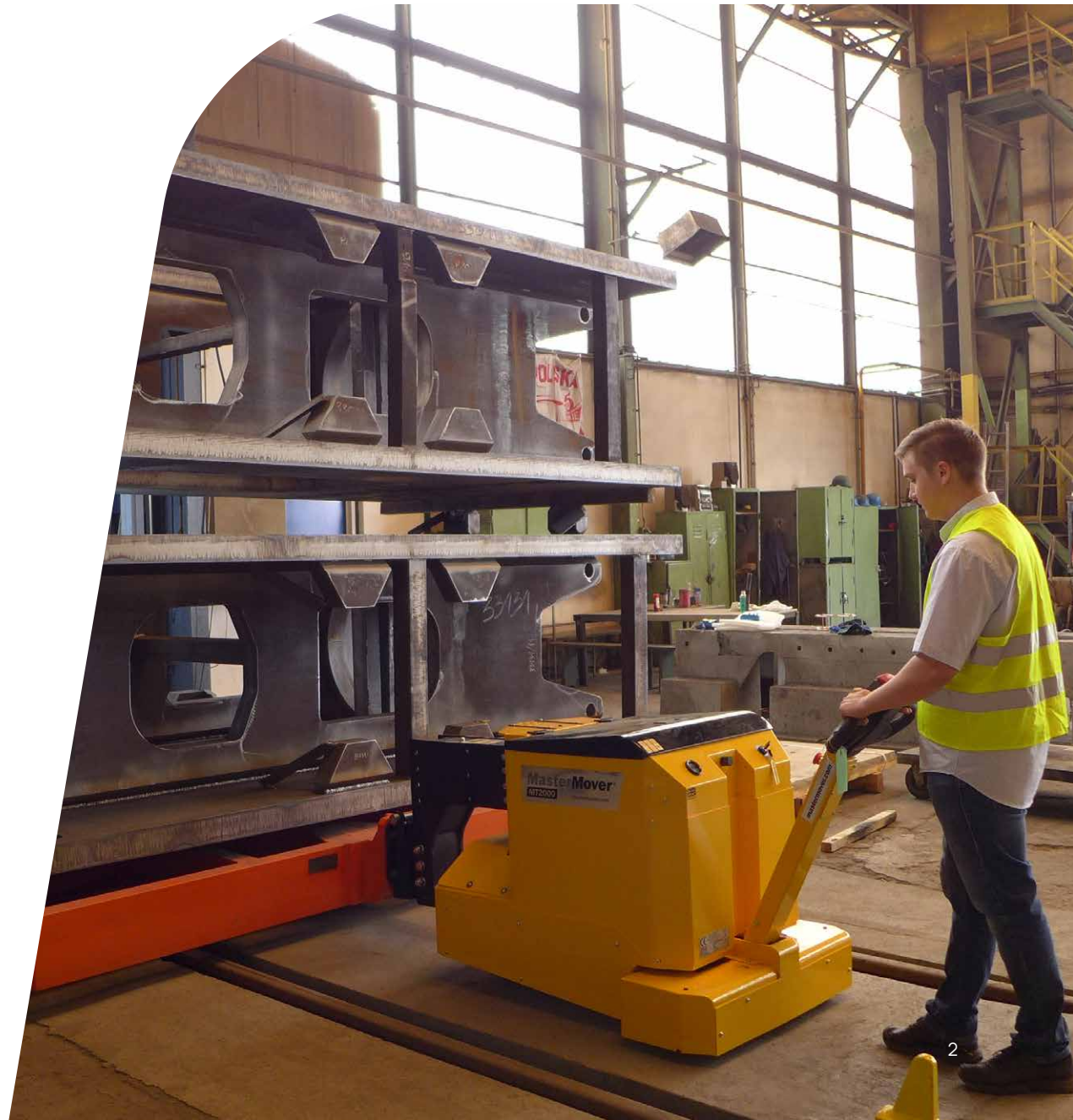


# Discover safer material handling

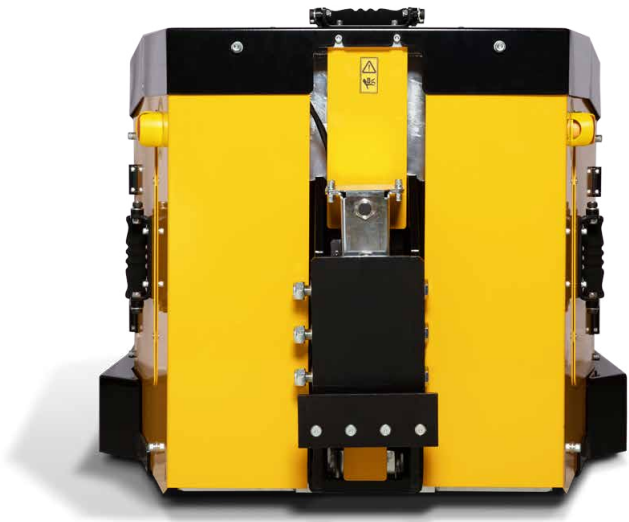
Delivering outstanding manoeuvrability in the movement of loads weighing up to 70,000kg, our Performance electric tugs offer a compact, flexible and more reliable alternative to traditional material handling equipment.

Highly durable and built specifically with industrial manufacturing in mind, Performance electric tugs boast powerful weight moving capabilities – empowering a single operator to move loads weighing between 6,000kg and 70,000kg with a single machine. Enabling the controlled movement of even the heaviest of loads, the range improves safety by reducing reliance on lifting equipment. With no operator license required, you can also reduce downtime and drive efficiency.

Our MultiLink technology allows multiple electric tugs to work together under the control of a single operator, so if your load is more than 70,000kg, we've still got you covered...



# What is an electric tug?



Electric tugs are a type of material handling equipment designed to move heavy-wheeled loads.

## How do they work?

Featuring a license-free operation, electric tugs keep loads safely on the ground. They utilise two key methods to generate traction and in turn, the ability to move heavy loads.

## How are they powered?

Electric tugs are 100% battery powered and different power options are available depending on your requirements. Options range from interchangeable maintenance-free battery systems to lithium options for high-intensity environments.

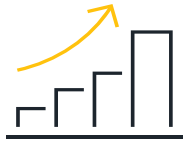
## What types are available?

Electric tugs are available as pedestrian operated, remote control or even as fully autonomous solutions (AGV).

## How to they connect to a load?

Electric tugs are available with a range of coupling options to achieve a safe, secure and robust connection between the machine and the load.

# The benefits of electric tugs



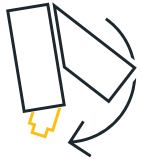
## Powerful movement

Safe movement of loads up to 70,000kg



## 24/7 operation

Interchangeable batteries for 24/7 operation



## Precision control

Precise movement of heavy loads in tight spaces



## Durability

Outstanding reliability and durability



## Improved safety

Safe and secure transportation of equipment



## Zero emissions

Supporting sustainability and net-carbon targets.



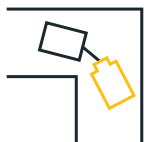
## Reduce risk

Eliminate manual handling



## No operator license

Reduce downtime and process disruption



## Manoeuvrability

Small, compact machine footprint



## Secure connections

Extensive coupling options to facilitate safe connection

# MasterTow

## Powerful Movements in Challenging Conditions

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). 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
- Multiple speed settings for complete control
- Machine crawl coupling assist available for easy connection

## Performance

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

## Power

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

## Connection

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

# Technical Specification

Machine	TOW800 ES	TOW1000 ES	TOW1200 ES	TOW1500 ES	TOW2000 ES
Maximum load (on castors)	8,000 kg	10,000 kg	12,000 kg	15,000 kg	20,000 kg
Maximum push force	3,138 N	3,923 N	4,707 N	5,884 N	7,845 N
Maximum pull force	4,707 N	5,884 N	7,061 N	8,826 N	11,768 N
Combined machine and battery weight	721 kg	1,026 kg	1,116 kg	1,357 kg	1,926 kg
Maximum slope	10°	8°	8°	8°	8°
<b>Battery (Based on standard option)</b>					
Maximum distance per charge	7.6 km	10.2 km	8.6 km	6.9 km	5.9 km
Charge time (External charger)	8 hrs 30 mins	7 hrs 30 mins	7 hrs 30 mins	7 hrs 30 mins	8 hrs 30 mins
Charge time (Internal charger)	6 hrs 30 mins	10 hrs 30 mins	10 hrs 30 mins	10 hrs 30 mins	8 hrs 30 mins



# MasterTug

## Consistent Performance and Manoeuvrability

The MasterTug range delivers unrivalled manoeuvrability when moving heavy-wheeled loads weighing up to 20,000kg. Utilising a unique weight transfer principle, the MasterTug range can move heavy weights whilst retaining an incredibly compact machine footprint. The design makes the MasterTug range perfect for working in confined spaces and facilitating precise movements.

With ergonomic controls, lightweight steering and an intuitive design, MasterTug takes the strain and empowers an operator to move heavy loads with complete control. A secure coupling system maximises load security and performance, guaranteeing total peace of mind.

The powerful performance of the MasterTug allows operators to push, pull and steer loads inside, outside and on slopes with complete control.



# 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

## Performance

- Powerful weight-moving capabilities through weight transfer
- Start, move and stop movement on slopes
- Optimised hydraulics guarantee a smooth connection and movement

## Power

- AC motor optimises speed and power
- Slide out, interchangeable batteries deliver 24/7 performance
- An optional Battery Protection System maximises longevity

## Connection

- Secure coupling system delivers controlled movement of loads
- Unique mast design enables operators to connect to loads at different heights
- CombiCoupling, BoxCoupling and custom coupling options available

# Technical Specification

Machine	MT800+	MT1000+	MT1200+	MT1500+	MT2000+
Maximum load (on castors)	8,000 kg	10,000 kg	12,000 kg	15,000 kg	20,000 kg
Maximum push force	5,492 N	6,865 N	8,238 N	10,297 N	13,729 N
Maximum pull force	5,492 N	6,865 N	8,238 N	10,297 N	13,729 N
Combined machine and battery weight	491 kg	491 kg	491 kg	491 kg	711 kg
Maximum slope	8°	8°	8°	8°	8°
<b>Battery (Based on standard option)</b>					
Maximum distance per charge	11.7 km	9.5 km	8 km	6.5 km	5.1 km
Charge time (External charger)	6 hrs	6 hrs	6 hrs	6 hrs	7 hrs
Charge time (Internal charger)	9 hrs	9 hrs	9 hrs	9 hrs	10 hrs 15 mins





# PowerSteered

Fingertip control of heavy loads



The PowerSteered range allows a single operator to move loads with fingertip control for effortless movement. Benefit from intuitive power steering to make light work of moving the heaviest loads to drive safer, more efficient operations.

The range is available with unparalleled control options, offering a solution for every heavy load-moving challenge. Choose from pedestrian-operated, remote control and even fully autonomous AGV options for maximum efficiency.

The robust design of the PowerSteered range guarantees unrivalled weight-moving performance. A secure coupling system ensures a rigid connection to the load, and a compact machine footprint delivers excellent manoeuvrability.

Our PowerSteered electric tugs can be equipped with MultiLink technology, allowing multiple tugs to operate in unison under a single operator's control, providing combined weight-moving performance and enhanced steering capabilities



# Key Features

## Safety

- A range of control modes deliver maximum operator safety
- Audible horn, flashing beacon, performance monitoring
- Speed control with two-speed selector switch

## Performance

- Highly manoeuvrable for precise movement in tight spaces
- Unrivalled visibility for operator
- Powerful hydraulic system maximises load security and power holding loads even on slopes
- MultiLink and AGV options enable future scalability

## Power

- High performance, maintenance-free interchangeable batteries for 24/7 operation
- Optional Battery Protection System maximises longevity
- Compact design, yet high power output

## Connection

- Heavy-duty hydraulic coupling system ensures maximum load security and performance
- Self-levelling hydraulics enable secure movements even on slopes
- Optional smart coupling allows for MultiLink capabilities

# Technical Specification

Machine	PS800+ LH	PS800+	PS1000+	PS1200+	PS1500+	PS2000+	PS2500+	PS3000+	PS7000+
Maximum load (on castors)	8,000 kg	8,000 kg	10,000 kg	12,000 kg	15,000 kg	20,000 kg	25,000 kg	30,000 kg	70,000 kg
Maximum push force	5,493 N	5,492 N	6,865 N	8,238 N	10,297 N	13,729 N	17,169 N	18,632 N	44,130 N
Maximum pull force	5,493 N	5,492 N	6,865 N	8,238 N	10,297 N	13,729 N	17,169 N	18,632 N	44,145 N
Combined machine and battery weight	721 kg	916 kg	916 kg	916 kg	916 kg	916 kg	916 kg	1,271 kg	3,330 kg
Maximum slope	8°	8°	8°	8°	8°	8°	8°	8°	8°
<b>Battery (Based on standard option)</b>									
Maximum distance per charge	11.7 km	13.5 km	11.1 km	9.4 km	7.7 km	5.9 km	4.8 km	4 km	5 km
Charge time (External charger)	8 hrs	8.5 hrs	8.5 hrs	8.5 hrs	8.5 hrs	8.5 hrs	8.5 hrs	6 hrs	8 hrs

# Trailer Moving System



Unlock safer, more efficient trailer movement

The Trailer Moving System is specifically designed to move unladen trailers weighing up to 20,000kg. From articulated trailers to flat beds and low loaders, the TMS range of electric tugs allow the effortless movement of heavy trailers inside, outside and on slopes.

Featuring a universal kingpin connection, the Trailer Moving System connects securely to any commercial trailer. Once securely connected, the Trailer Moving System safely raises one end of the trailer off the ground, enabling a full range of movement.

Fully electric and license-free, the Trailer Moving System prevents bottlenecks in moving trailers for both distribution depots and manufacturers alike. Boasting intuitive operator controls and safety built-in as standard, the range provides operators with complete control when moving heavy trailers. A compact machine design maximises visibility and enables operators to easily manoeuvre large commercial trailers in even the tightest of spaces.

An optional air compressor is also available, enabling operators to control the trailer brakes directly from the electric tug.



# Key Features

## Safety

- Audible horn, flashing beacon, and emergency stop
- Multiple speed settings for complete control
- Anti-crush system

## Performance

- Powerful movement of trailers weighing up to 20,000kg
- Consistent performance inside, outside and on slopes
- Optional air compressor to engage trailer brakes

## Power

- Emissions-free operation
- High performance, maintenance-free batteries
- Battery discharge indicator for real-time battery status

## Connection

- Utilises industry-standard kingpin connection
- Secure locking system guarantees total load security
- Powerful hydraulic kingpin lift system

# Technical Specification

Machine	TMS1100+	TMS2000+
Maximum load (on castors)	11,000 kg	20,000 kg
Maximum push force	14,715 N	19,129 N
Maximum pull force	14,715 N	19,129 N
Combined machine and battery weight	847 kg	1,103 kg
Maximum slope	7°	7°
<b>Battery (Based on standard option)</b>		
Maximum distance per charge	8.4 km	6.3 km
Charge time (External charger)	6 hrs	6 hrs

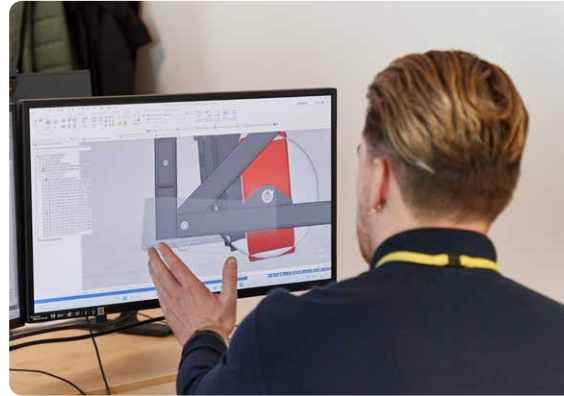


# Our services



## Service

We have a range of support options in place to keep your electric tug in optimum condition. With expert in-house support, you'll have the confidence knowing that we're here to help wherever you are in the world. Fast, expert support is on-hand to help with questions, diagnostics, approved parts and warranty support.



## Custom Solutions

Recognising that every material handling requirement is different, our in-house Customer Engineering team is equipped to create custom solutions centred around your specific requirements. If you need a custom solution, you're in safe hands with MasterMover.



## Approved Parts

Manufacturer-approved parts for quality assurance. By using genuine MasterMover parts, you benefit from guaranteed compatibility and superior quality, maximising your electric tug's service life and performance.

# Performance range solutions in action...

If you'd like to see and explore how our performance range solutions could benefit your operation, talk to us about:

- A visit to an existing customer
- A demonstration at MasterMover
- An on-site demonstration

Get in touch with our team today...

[mastermover.com](http://mastermover.com)



About us

Compact solutions to safely and efficiently move products, equipment and materials.

MasterMover material handling solutions help people easily move heavy or large loads, while improving safety and operational efficiency in organisations around the world.

**MasterMover**<sup>®</sup>



Engineered  
innovation.  
Performance  
guaranteed.

**MasterMover®**