MasterMover

Compact solutions to safely and efficiently move heavy loads

Electric Tugger Solutions





Discover safer material handling

Streamline your material handling processes with our electric tuggers and tows. Designed to deliver the safe, controlled movement of loads 154,000 lbs. and beyond, businesses across industrial manufacturing, retail, and logistics trust MasterMover electric tuggers to improve safety and efficiency.

Eliminating manual handling and reducing the risk of injuries in the movement of loads, our electric tuggers empower a single operator to move heavy loads with complete confidence.

Boasting innovative designs, electric tuggers enable the seamless movement of loads in the tightest of spaces, delivering maximum maneuverability and control. An effective alternative to traditional material handling equipment, electric tuggers do not require a license to operate, driving operational efficiency and productivity.

What is an electric tugger?



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

How do they work?

With no operator license required, electric tuggers keep loads safely on the ground. They utilize two key methods to generate traction and in turn, the ability to move heavy loads.

How are they powered?

Electric tuggers are 100% battery powered with multiple options 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 tuggers are available as pedestrian operated, remote control or even as fully autonomous solutions (AGV).

How to they connect to a load?

Electric tuggers 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 tuggers



Improve safety

Eliminate manual handling and reduce reliance on cranes and forklifts



Maximize efficiency

Boost labor productivity and efficiency



Unrivalled control

 $\label{eq:maximum control} \mbox{Maximum control in the hands of single operators}$



Zero emissions

Supporting sustainability and net-carbon targets



Maneuverability

Push, pull and maneuver with ease, even in tight spaces

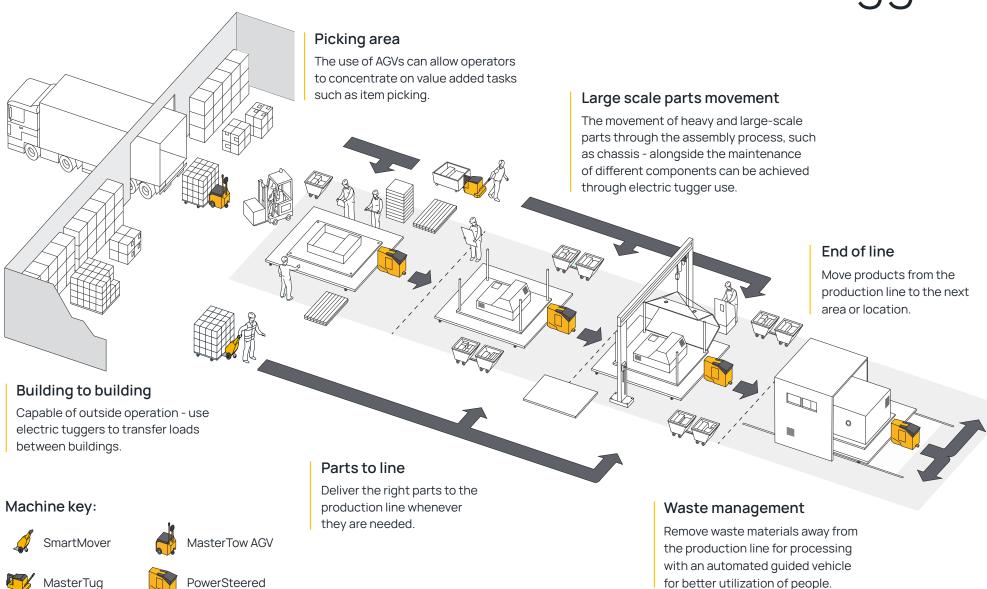


Weight capacity

Move loads of 154,000 lbs. and beyond

The use of electric tuggers

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Small but powerful electric tuggers to eliminate manual handling

Easily move wheeled loads weighing up to 4,400 lbs. with the SmartMover range. Delivering effortless pushing, pulling and steering, the SmartMover improves safety, removes manual handling and drives operational efficiency.

Benefit from versatility with various coupling options available, including a hydraulic clamp that delivers total load security.

SmartMover Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|----------------------------------|-----------------------------------|
| SM100 TOW | 1,100 lbs. 4,400 lbs. | 9.4 miles | 4 hrs 30 mins |
| LM100 | 2,200 lbs. I 8,800 lbs. | 5.8 miles | 4 hrs 30 mins |
| SM100+ | 2,600 lbs. I 10,500 lbs. | 4.8 miles | 4 hrs 30 mins |
| SM200+ | 4,400 lbs. 17,600 lbs. | 2.6 miles | 5 hrs 30 mins |











Compact and powerful electric tuggers for maximum control

The MasterTug range delivers unrivalled maneuverability when moving heavy-wheeled loads weighing up to 44,000 lbs. Utilizing a unique weight transfer principle, the MasterTug range can move heavy weights while retaining an incredibly compact machine footprint. The design makes the MasterTug range perfect for working in confined spaces and facilitating precise movements.

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

MasterTug Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|----------------------------------|-----------------------------------|
| MT200 | 4,400 lbs. I 17,600 lbs. | 6.6 miles | 3 hrs 45 mins |
| MT300+ | 6,600 lbs. I 26,400 lbs. | 7.3 miles | 5 hrs |
| MT400+ | 8,800 lbs. I 35,200 lbs. | 7.6 miles | 7 hrs |
| MT600+ | 13,200 lbs. I 52,900 lbs. | 5.2 miles | 7 hrs |
| MT800+ | 17,600 lbs. I 70,500 lbs. | 7.3 miles | 6 hrs |
| MT1000+ | 22,000 lbs. I 88,100 lbs. | 5.9 miles | 6 hrs |
| MT1200+ | 26,400 lbs. I 105,000 lbs. | 5 miles | 6 hrs |
| MT1500+ | 33,000 lbs. I 132,000 lbs | 4 miles | 9 hrs |
| MT2000+ | 44,000 lbs. I 176,000 lbs. | 3.2 miles | 7 hrs |





Easy-to-use electric tows to improve safety

Powerful electric tow tuggers to effortlessly move up to 44,000 lbs. with total control, with pedestrian operated, remote control and automated options available.

The MasterTow range of electric tow tuggers, is ideally suited to towing loads weighing up to 44,000 lbs. The range uses its own weight to deliver consistent traction, enabling the effortless movement of loads inside, outside and on slopes.

The MasterTow range is available with Remote Control, for maximum operator visibility, and Autonomous (AGV) solutions for maximum ROI, safety and efficiency.



MasterTow Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|----------------------------------|-----------------------------------|
| TOW200 | 4,400 lbs. I 17,600 lbs. | 10.3 miles | 5 hrs 30 mins |
| TOW300 | 6,600 lbs. I 26,400 lbs. | 7.3 miles | 5 hrs 30 mins |
| TOW600 | 13,200 lbs. I 52,900 lbs. | 5.3 miles | 7 hrs 30 mins |
| TOW600 ES | 13,200 lbs. I 52,900 lbs. | 5.3 miles | 7 hrs 30 mins |
| TOW800 ES | 17,600 lbs. I 70,500 lbs. | 4.7 miles | 8 hrs 30 mins |
| TOW1000 ES | 22,000 lbs. I 88,100 lbs. | 6.3 miles | 7 hrs 30 mins |
| TOW1200 ES | 26,400 lbs. I 105,000 lbs. | 5.3 miles | 7 hrs 30 mins |
| TOW1500 ES | 33,000 lbs. I 132,000 lbs. | 4.3 miles | 7 hrs 30 mins |
| TOW2000 ES | 44,000 lbs. I 176,000 lbs. | 3.7 miles | 8 hrs 30 mins |





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 unrivaled weight-moving performance. A secure coupling system ensures a rigid connection to the load, and a compact machine footprint delivers excellent maneuverability. Our PowerSteered electric tuggers can be equipped with MultiLink technology, allowing multiple tuggers to operate in unison under a single operator's control, providing combined weight-moving performance and enhanced steering capabilities.



PowerSteered Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|----------------------------------|-----------------------------------|
| PS800+LH | 17,600 lbs. I 70,548 lbs. | 7.3 miles | 8 hrs |
| PS800+ | 17,000 lbs. I 70,500 lbs. | 8.4 miles | 8 hrs 30 mins |
| PS1000+ | 22,000 lbs. I 88,000 lbs. | 6.9 miles | 8 hrs 30 mins |
| PS1200+ | 26,400 lbs. I 105,000 lbs. | 5.8 miles | 8 hrs 30 mins |
| PS1500+ | 33,000 lbs. I 132,000 lbs | 4.8 miles | 8 hrs 30 mins |
| PS2000+ | 44,000 lbs. I 176,000 lbs. | 3.7 miles | 8 hrs 30 mins |
| PS2500+ | 55,000 lbs. I 220,000 lbs. | 3 miles | 8 hrs 30 mins |
| PS3000+ | 66,000 lbs. I 264,554 lbs. | 2.5 miles | 6 hrs |
| PS7000+ | 154,323 lbs. 617,294 lbs. | 3.1 miles | 8 hrs |



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Powerful performance in the most challenging environments

The AllTerrain range enables the safe movement of heavy-wheeled loads weighing up to 11,000 lbs. Featuring an intuitive design, this range enables a single operator to easily push and pull loads with little effort. With a design focused on durability and performance even in tough environments, the AllTerrain range can work outside on rough flooring and on slopes.

An optional remote control system is available to improve visibility and ease of pushing and pulling heavy loads during linear movements.



AllTerrain Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|----------------------------------|-----------------------------------|
| ATT400+ | 11,000 lbs. I 88,100 lbs. | 7.5 miles | 8 hrs 15 mins |
| ATP400 | 11,000 lbs. I 176,000 lbs. | 7.5 miles | 8 hrs 15 mins |
| MP400 | 11,000 lbs. I 176,000 lbs. | 8.3 miles | 7 hrs 30 mins |





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Safe and efficient movement of trailers

The Trailer Moving System is specifically designed to move unladen trailers weighing up to 44,000 lbs. From articulated trailers to flat beds and low loaders, the TMS range of electric tuggers allow the effortless movement of heavy trailers inside, outside and on slopes. Fully electric and no operator license required, the Trailer Moving System prevents bottlenecks in moving trailers for both distribution depots and manufacturers alike.

Featuring a universal kingpin connection, the Trailer Moving System connects securely to any commercial trailer.

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Trailer Moving System Range

| Machine model | Maximum load (on castors I on rails) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|---|-------------------------------|-----------------------------------|
| TMS1100+ | 24,200 lbs. 97,000 lbs. | 5.2 miles | 6 hrs |
| TMS2000+ | 44,000 lbs. I 176,000 lbs. | 3.9 miles | 6 hrs |







Maximum maneuverability of all-swiveling loads

The MasterHandler range is specifically designed to deliver the controlled movement of loads weighing up to 8,800 lbs. that are fitted with all-swiveling castors.

Featuring a unique design centered on delivering maximum control, the MasterHandler enables operators to easily steer and position heavy loads that ordinarily would be difficult to move in a controlled way.

With adjustable support legs available to deliver a controlled fixed point, the MasterHandler can provide a turnkey solution to the movement of loads with all swiveling castors.

MasterHandler Range

| Machine | Maximum load | Maximum distance | Charge time |
|---------|--------------------------|------------------|--------------------|
| model | (on castors I on rails) | (per charge) | (external charger) |
| MH400+ | 8,800 lbs. 35,200 lbs. | 5.7 miles | 5 hrs 30 mins |









Compact, stainless steel solutions to maximize safety

The Stainless Steel range of electric tuggers 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 tuggers reduce 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 tuggers are ideally suited to the stringent requirements of sterile environments. You're guaranteed powerful performance with machines in the range capable of moving up to 33,000 lbs.



Stainless Steel Range



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| Machine model | Maximum load (on castors) | Maximum distance (per charge) | Charge time (external charger) |
|------------------|------------------------------|----------------------------------|-----------------------------------|
| SM100+ SS | 2,600 lbs. I 10,500 lbs. | 4.8 miles | 4 hrs 30 mins |
| SM200+ SS | 4,400 lbs. I 17,600 lbs. | 3.3 miles | 7 hrs |
| TOW200 SS | 4,400 lbs. I 17,600 lbs. | 10.3 miles | 5 hrs 30 mins |
| TOW300 SS | 6,600 lbs. I 26,400 lbs. | 7.3 miles | 5 hrs 30 mins |
| MH400+ SS | 8,800 lbs. I 35,200 lbs. | 5.7 miles | 5 hrs 30 mins |
| MT5/400+ SS | 8,800 lbs. I 35,200 lbs. | 7.7 miles | 8 hrs 15 mins |
| MT20/800+ SS | 17,600 lbs. I 70,500 lbs. | 7.3 miles | 6 hrs |
| MT20/960+ SS | 22,000 lbs. I 88,100 lbs. | 5.9 miles | 6 hrs |
| MT20/1200+SS | 26,400 lbs. I 105,000 lbs. | 5 miles | 6 hrs |
| MT20/1500+ SS | 33,000 lbs. I 132,000 lbs. | 4 miles | 6 hrs |





Autonomous Load Moving Solutions

Automated Guided Vehicles (AGVs) have the ability to be transformational when it comes to driving operational efficiency within industrial manufacturing.

Featuring best-in-class navigation and safety technologies, AGVs remove the need for human operation, carrying out movement of products, equipment and materials on time, every time.

In addition, people are protected from manual handling injuries, and can spend more of their time on greater value adding and important tasks.



Our AGV Range



MasterHandler AGV

Weight capacity: Up to 13,200 lbs.

Type: Tugger AGV



FlatBed AGV

Weight capacity: 22,000 lbs. plus

Type: Unit Load AGV



MasterTow AGV

Weight capacity: Up to 44,000 lbs.

Type: Towing AGV



PowerSteered AGV

Weight capacity: 154,000 lbs.

Type: Heavy Duty Tugger AGV



Custom Solutions

Weight capacity: Custom

Type: Custom

The benefits of AGV technology



Maximum safety

AGVs detect hazards and dangers, taking the appropriate action.



No human error

AGVs eliminate human error, stopping the AGV in its tracks when risks are detected.



24/7 operation

With spare batteries and multi-charging options, AGVs can operate 24/7 helping to keep environments safe.



Better efficiency

AGVs carry out tasks on time and at the optimal speed, faster than if done manually.



Repeatable precision

AGVs guarantee repeated movement and precision – crucial in manufacturing to make the environment safe.



Better use of people

AGVs do the heavy manual work and deliver greater ROI through staff spending more time doing greater-value tasks.





Case Study

AGV drives efficiency for Toyota Motor Manufacturing

Before

- Tow tractor driver transporting resin back doors back & forth
- Inefficient use of resources
- A non-value adding task in lean manufacturing

After

- TOW300 AGV now fully automates the process
- 24/7 operation and integrates with production systems
- Increased efficiency and better use of people



Precise movement of high-value loads

Global aerospace manufacturers and MRO providers trust MasterMover electric tuggers to provide total control in the movement of high-value, heavy loads.

Whether it's in the production of aerostructures, the maintenance of aero engines, or moving sensitive loads in defense manufacturing, our electric tuggers maximize control and maneuverability.

Typical applications:

- Aerostructures & Composites
- · Platforms & Staging

Aero engines

• Jigs & tooling

Benefits for the aerospace industry



Improve workplace safety



Precise safety movements



Unlock greater efficiency



Maximum control







Creating leaner processes to accelerate efficiency

Automotive and heavy plant machinery manufacturers use MasterMover electric tuggers to enhance lean processes and increase shop floor flexibility.

Whether it's in the lineside delivery of parts or the transfer of heavy sub-assemblies, electric tuggers maximize production efficiency and reduce downtime.

Typical applications:

• Body-in-whites

Powertrains

Sub-assemblies

• Press tools & moulds

Benefits for automotive & heavy plant



Improve workplace safety



Just-in-time safety movements



Drive efficiency



Maximum control







Scalable solutions for the future of energy



Material handling equipment in the energy industry needs to be able to work in some of the most challenging environments.

Electric tuggers reduce the risk of accidents and deliver maximum maneuverability even in hazardous environments. Delivering safe, controlled movements across wind, oil and nuclear.

Typical applications:

Subsea trees

• Wind turbine blades

· Bearings & tooling

• Pipes & pumps

Benefits for the energy industry



Maximum control



Improved safety



Greater flexibility



Zero emissions





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Supercharge staff safety in waste management

Electric tuggers reduce manual handling, improve workplace safety and boost productivity in waste management.

Delivering the safe movement of wheeled loads such as dumpsters, carts and linen trolleys, electric tuggers reduce the risk of staff injuries by eliminating manual handling.

Typical applications:

- Commercial and residential dumpsters
- · Clinical waste

Food containers

Linen carts

Benefits for facilities management



Eliminate manual handling



Improved safety



Boost productivity



Reduce staff absence







Eliminating manual handling in the food industry



Factory managers are constantly seeking out new ways to make their operations more efficient and safer.

Food and beverage manufacturers choose electric tuggers to manage production flow and eliminate manual handling – maximizing efficiency and reducing the risk of injuries.

Typical applications:

Hoppers

• V-mags & totes

Production machinery

Ovens

Benefits for food manufacturing



Eliminate manual handling



Improved safety



Boost productivity



Meet hygiene standards







Driving safety and efficiency in manufacturing

Electric tuggers are helping industrial manufacturers across the globe cut downtime, improve safety and increase both operational efficiency and flexibility.

Whether it's in eliminating manual handling in glass manufacturing or reducing turnaround times in rail maintenance, electric tuggers are relied on to drive safety and efficiency.

Typical applications:

Stillages

Molds

Lamination carts

Bogies

• Kiln cars

• A-frame carts

Benefits for industrial manufacturing



Improve safety



Drive efficiency



Precise movements



Maximum maneuverability







Optimizing efficiency from fulfilment to delivery

Optimizing material handling processes is a key focus for many retail, logistics and warehouse companies.

Further fueled by rising demand and labor shortages, retailers are increasingly adopting electric tuggers to improve safety and maximize operational efficiency.

Typical applications:

Roll cages

Nested cages

Fulfilment tow trains

Picking carts

Benefits for industrial manufacturing



Eliminating manual handling



Improving efficiency



Reducing accidents



Boosting productivity











Achieve safe, controlled movements of sensitive loads and equipment



For pharmaceutical manufacturers, stainless steel electric tuggers allow process staff to safely maneuvers heavy, high-value cleanroom equipment, eliminating manual handling and maximizing production efficiency.

From buffer totes to chromatography column, electric tuggers help maximize suite uptime and speed up changeovers without compromising on safety.

Typical applications:

- Chromatography columns
- · Media & buffer totes

- Single-use mixers
- · Tanks & reactors

Benefits for pharmaceutical & life sciences



Improve safety



Maximize suite uptime



Unlock greater flexibility



Cleanroom-ready





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See our electric tuggers in action...

If you'd like to see and explore how our electric tugger 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...





Safer movements for Volkswagen

Before

- Manual movements of body-in-whites led to a high risk of injury
- Staff taken away from value-adding tasks to manually move loads
- Difficulty positioning loads in test bays

Now

- Using an MT400+ to eliminate manual handling
- Increased efficiency and labor productivity
- Precise positioning of body-in-whites in tight testing bays



Testimonials

"MasterMover are easy to work with and all products performed as advertised. Moved our heavy products with ease!"

Parker Maccianti, Mechanical Engineer Bell-Everman

"The tuggers have enabled us to change the way we produce our units making the workshop a more efficient and a safer environment."

Steve Griffiths, Depot & Production Manager Select Plant Hire

"Since we introduced MasterMover's electric tuggers, we have never looked back! Their equipment revolutionized the way we handle heavy goods."

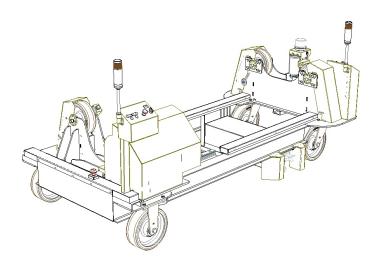
Akiva Brunner, Property Manager BRNS Group

Custom Solutions

Custom solutions for turnkey systems or small modifications

Whether it's a custom coupling to connect to your load, modifying our electric tuggers to work in a challenging environment, or designing an entirely new solution for your application, our Customer Engineering team can help.

We have a rich track record of delivering custom solutions, and in fact many of our product portfolio started as custom projects!





Custom engineering

In-house Engineering team

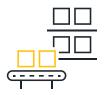
From consultancy right through to manufacture, our in-house Custom Engineering teamwork with you to understand your requirements and create a solution that delivers every time.



Global support

Here to help

Material handling equipment and moving heavy loads is what we do. Our team conceptualizes and proposes ideas around your applications, enabling you to weigh your options and benefit from industry-leading advice.



Staged design

Robust processes

Unique requirements and custom solutions need to be thought through. With a robust 4-step process in place, we work with you every step of the way, ensuring your needs are understood and met.



Innovation at our core

Driving load moving forward...

As pioneers of electric tugger solutions we continue to push the material handling industry forward through innovation.

Automated Guided Vehicles (AGV)

Benefit from safe load movement with the added benefit of fully autonomous operation with our AGV electric tuggers.

MultiLink Technology

MultiLink technology enables multiple PowerSteered electric tuggers to work in synchronization, under the control of one operator.

Unrivalled load capacity

We continue to lead the way when it comes to load capacity. With solutions to move up to 154,000 lbs. and beyond, you're in safe hands.

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Service & Support

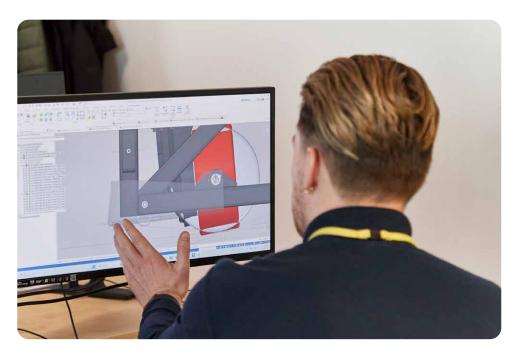
Global technical support

MasterMover has a global technical support team, alongside a global network of service partners, to ensure peace of mind when using any of our machines.

Our Technical Support team is on-hand to provide fast, helpful support with questions, breakdowns, approved parts, warranty and servicing.

Approved parts

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





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 organizations around the world.

MasterMover.









Engineered innovation.
Performance guaranteed.

