

**MasterMover®**

# Manufacturing & Assembly Handling Equipment

Reduce downtime. Boost efficiency.  
Improve safety.





# Your heavy load moving partners

Engineered by industry experts, trusted by industry leaders.

Industrial manufacturers use electric tugs to cut downtime, improve safety, and boost operational flexibility when moving heavy, high-value loads including:

- Production equipment
- Work-in-progress and sub-assemblies
- Kitting trolleys and cart systems
- Access equipment and mobile work platforms
- Stillages
- Rolling stock, bogies, and carriages
- Boat cradles, hulls, and yachts
- Modular and prefabricated buildings
- Cable and wire reels

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# Manufacturing sectors we work in

A wide variety of manufacturers, from heavy plant and steel to boat assembly and pre-fabricated buildings, use our electric tugs to move large and heavy loads throughout production and assembly.

- Boat and yacht building
- Rail and rolling stock
- Steel fabrication
- Glass manufacturing
- Modular and pre-fabricated buildings
- Construction, mining, and agriculture
- Engine, pump, and generators
- Plastic and metal manufacturing
- Carpet and textile handling
- Paper manufacturing
- Brick and ceramics





# Unlock the next level of productivity

Improve safety, remove bottlenecks, and boost operational efficiency by switching to electric tugs and AGVs to replace repetitive manual movement.



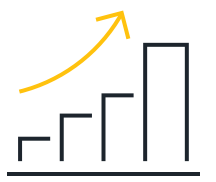
## Reduce takt time

Streamline load movement with leaner processes.



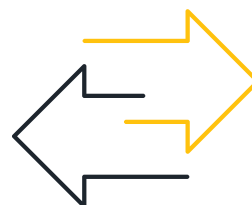
## Heavy-duty power

Move loads up to 70,000kg and beyond.



## Increase throughput

Cut out downtime to boost efficiency.



## Improve safety

Eliminate manual handling and reduce injury risks.

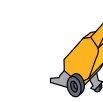
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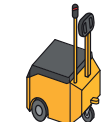


# Keep production moving

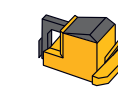
## Machine key:



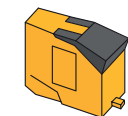
SmartMover



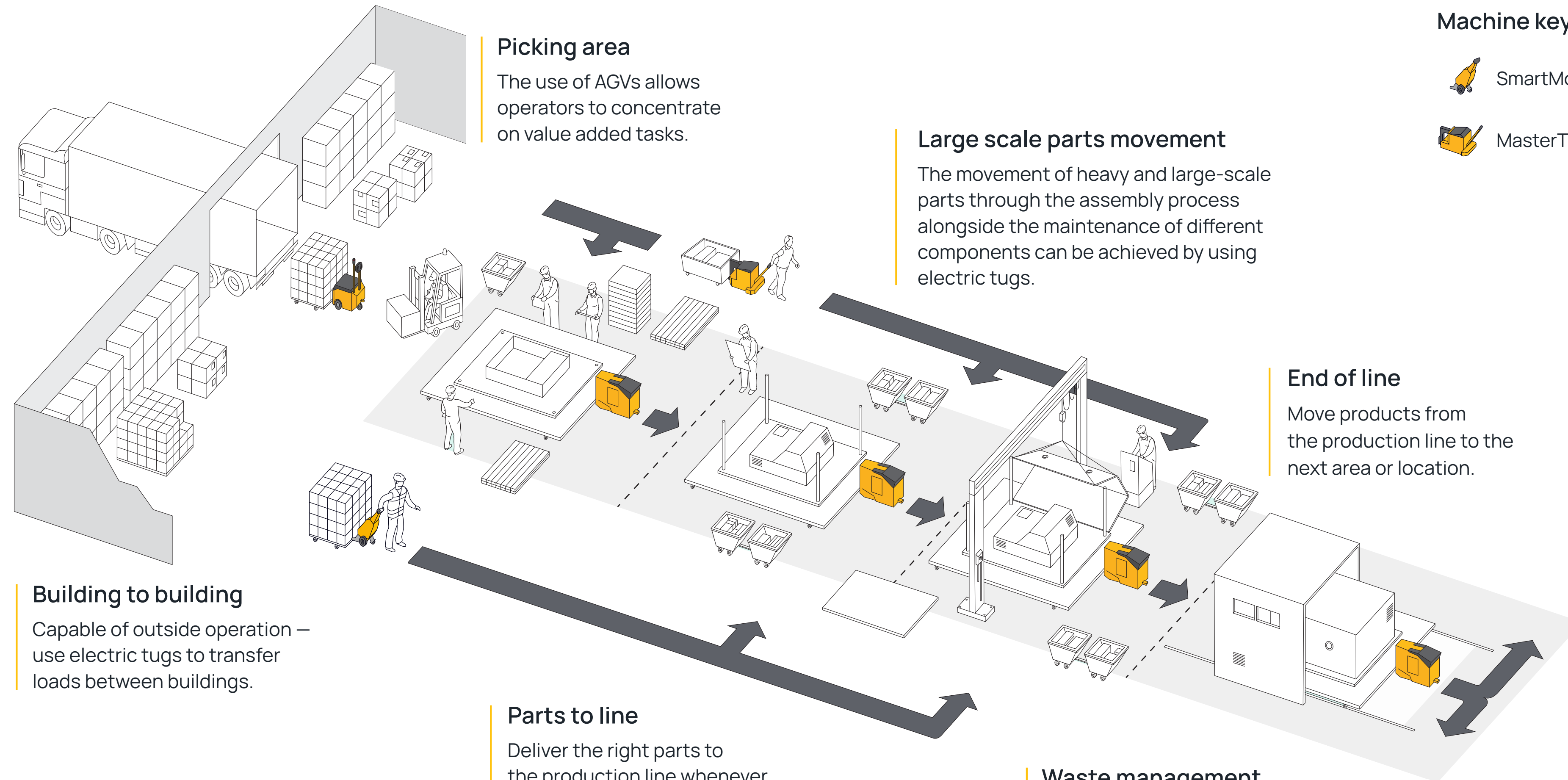
MasterTow AGV



MasterTug



PowerSteered



### Picking area

The use of AGVs allows operators to concentrate on value added tasks.

### Large scale parts movement

The movement of heavy and large-scale parts through the assembly process alongside the maintenance of different components can be achieved by using electric tugs.

### End of line

Move products from the production line to the next area or location.

### Building to building

Capable of outside operation – use electric tugs to transfer loads between buildings.

### Parts to line

Deliver the right parts to the production line whenever they are needed.

### Waste management

Remove waste materials away from the production line for processing with an automated guided vehicle for better utilisation of people.

# Built to perform

Heavy-duty solutions with precise control for manufacturing and assembly plants – ideal for moving everything from engines to kitting trolleys whilst protecting staff and avoiding costly damage to loads and equipment. No operator license needed; switch to electric tugs so you can eliminate bottlenecks caused by waiting for licensed forklift truck drivers.



## SmartMover

Weight capacity: Up to 2,000kg

Small but powerful solutions to eliminate manual handling.



## MasterTug

Weight capacity: Up to 20,000kg

Versatile power. Perfect for moving trolleys, bogies, and other equipment.



## MasterTow

Weight capacity: Up to 20,000kg

Heavy-duty towing for loads with drawbars.



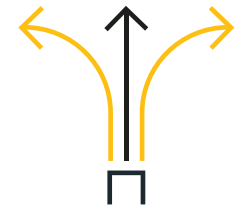
## PowerSteered

Weight capacity: Up to 70,000kg

Maximum manoeuvrability for high-value, complex loads.



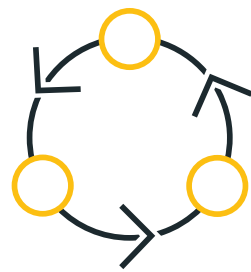
# Technology options



## Remote Control

Maintain operator visibility.

With easy-to-use controls, operators can safely and easily control load movement from the ideal vantage point whilst adjusting the speed and direction of the tug remotely.



## MultiLink

Combine machine power for even heavier loads.

Ideal for large, awkward loads requiring manoeuvrability, MultiLink allows multiple tugs to work together under the control of a single operator and the movement of heavier loads by combining the power of multiple machines.



## Automated Guided Vehicles

Advanced automation with natural navigation.

Automate repetitive manual tasks, building-to-building movements, and lineside deliveries to free up staff for higher value activities – boosting throughput and reducing downtime.

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## Case Study

# Forklift-free material handling at Terex

A global leader in heavy plant equipment, Terex sought to enhance safety and efficiency in their Materials Processing division by moving away from traditional forklift-based material handling. They aimed to create a safer environment and streamline the movement of large, heavy components.

### Objectives

- Reduce forklift truck movement within manufacturing areas.
- Improve safety when moving heavy sub-assemblies and chassis.
- Increase flexibility in moving loads between production buildings.



### Approach

Terex implemented our PS3000+ electric tugs, a safer alternative to high-capacity forklifts.

The remote-controlled tugs provided enhanced visibility and manoeuvrability for moving items such as 18,000kg chambers and 16m long chassis, both indoors and outdoors as well as on slopes.



### Results

Since introducing the PS3000+ machines, Terex has significantly reduced internal forklift traffic, leading to improved safety and a reduced risk of collisions.

Downtime associated with waiting for licensed forklift drivers has decreased, adding flexibility for on-demand movement of heavy loads. The success led to the implementation of additional electric tugs to unlock even more productivity.



3 x PS3000+ machines in operation



Up to 18,000kg moved



Improved safety and flexibility

**MasterMover**



# Trusted by industry leaders

Manufacturers across the globe are swapping traditional internal combustion engine (ICE) handling equipment for more flexible and sustainable pedestrian-operated electric solutions.

Who we work with...



**BOMBARDIER**



**LIEBHERR**



“Before, we would have had to wait and stop production to bring in our product. And that ability to be flexible with the time of whenever we need it, just-in-time, has been really an amazing change to what we normally have with the waste of waiting ... and such a saving from a downtime and efficiency perspective.”

Rachel Pattison  
Operations Improvement Manager, Terex



# Electric tugs in action





Engineered  
innovation.  
Performance  
guaranteed.

***MasterMover***<sup>®</sup>