

MasterMover®

Automotive & Commercial Vehicle Moving Solutions

Faster production. More flexibility.
Safer operations.



Your automotive equipment moving partners

Engineered by industry experts, trusted by industry leaders.

Keep manufacturing moving with just-in-time efficiency. Automotive original equipment manufacturers (OEMs), tier one suppliers, and commercial vehicle manufacturers use electric tow tugs to move a wide variety of tooling, components, and equipment such as:

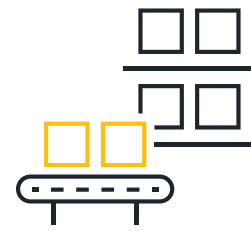
- Body panels, body-in-whites, and chassis
- Transmissions, drive shafts, and axles
- Powertrains and gearboxes
- Interiors, lighting, and safety systems
- Kitting trolleys
- Injection mould and press tools

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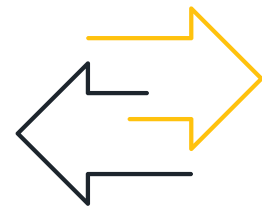
Supercharge your processes

Remove bottlenecks and slow material movement processes by switching to electric tugs and AGVs, ideal for highly repetitive tow tractor routes.



Leaner processes

Streamline internal logistics for faster workflows.



Unlock flexible production

Adapt easily to modular and scalable processes.



Shift safety up a gear

Eliminate manual handling to focus on higher-value tasks.



Drive efficiency

Reduce downtime and optimise materials movement.

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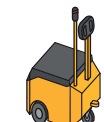


Keep operations moving

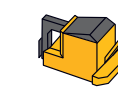
Machine key:



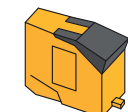
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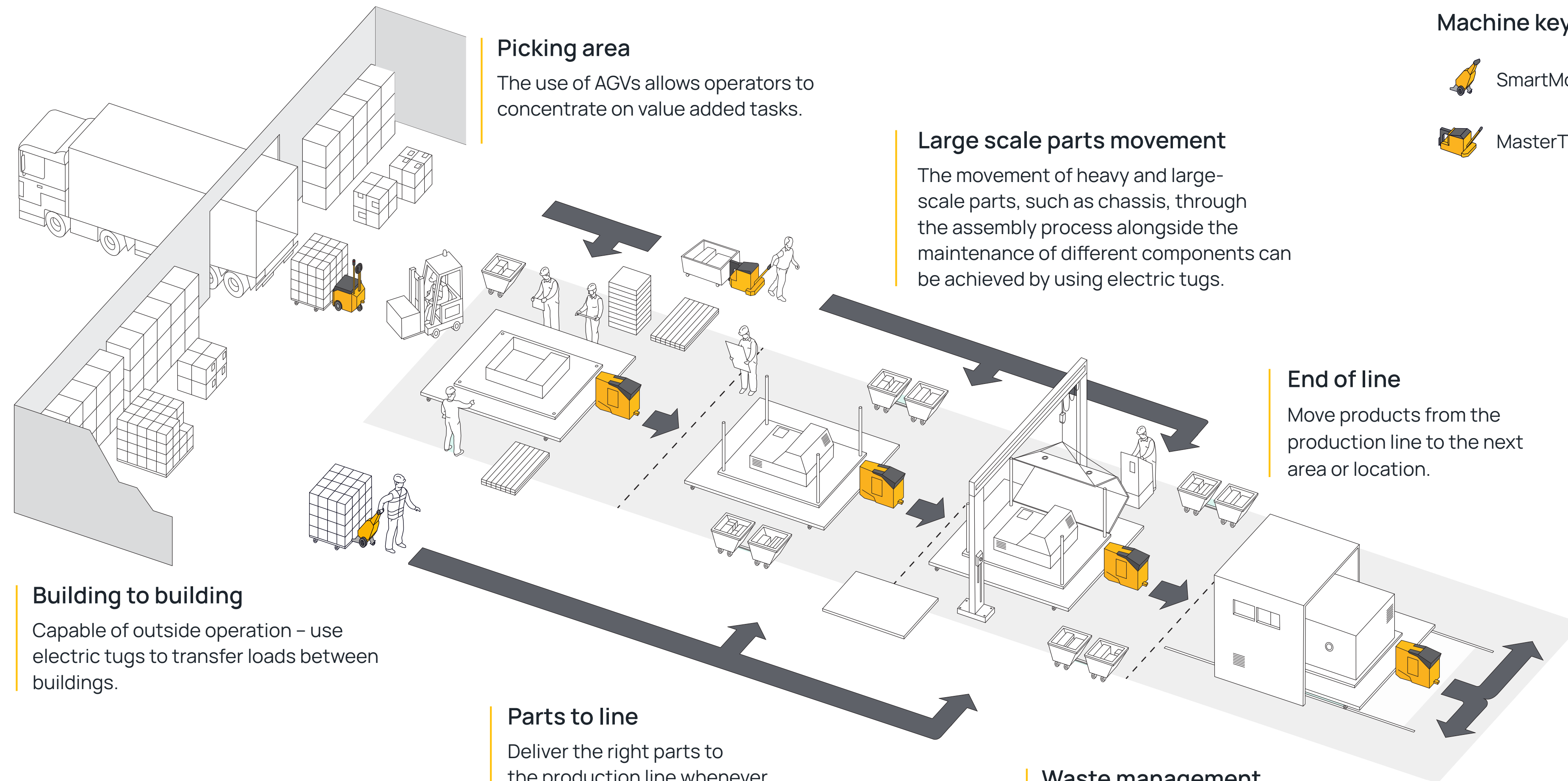
MasterTow AGV



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, such as chassis, 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 automotive manufacturing – ideal for moving everything from body-in-whites 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 certified forklift truck drivers.



SmartMover

Weight capacity: Up to 2,000kg

Small but powerful to eliminate manual handling.



MasterTug

Weight capacity: Up to 20,000kg

Versatile power. Perfect for moving jigs, moulds, and staging.



MasterTow

Weight capacity: Up to 20,000kg

Heavy-duty towing for loads with drawbars.

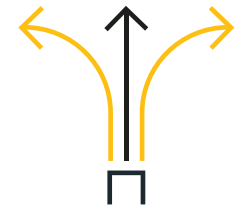


PowerSteered

Weight capacity: Up to 70,000kg

Maximum manoeuvrability for high-value, complex loads.

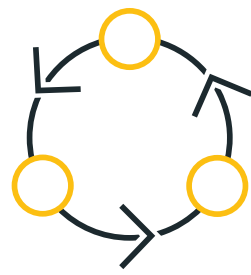
Technology options



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 productivity and reducing downtime.

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Toyota boosts efficiency with AGVs



Objectives

- Eliminate waste associated with the transfer of resin back doors.
- Safely navigate a busy plant floor, interacting with pedestrians and other traffic.
- Integrate seamlessly with existing automated door transfer systems.
- Stop with high precision and repeatability at designated transfer points.



Approach

We installed the TOW300 AGV to fully automate the driving process using intuitive natural navigation to follow standardised routes, automatically signalling and interacting with the existing door transfer system for loading.

Advanced safety features, including 360° scanners and integrated emergency stops, ensure safe operation alongside personnel and other equipment.



Results

Our TOW300 AGV successfully delivered a return on investment within two years, operating reliably for 16 hours daily (~5,000 miles annually) with zero safety incidents reported.

This automation eliminated process waste, enabled Toyota to reallocate operators to more value-adding activities, and significantly improved productivity. The project's success has led Toyota to plan further rollouts of our AGV systems globally.



16 hours daily run time



5,000 miles each year



ROI within 2 years

Trusted by industry leaders

Major automotive and commercial vehicle manufacturers across the globe are adopting flexible and automated electric material handling solutions to transform operations by boosting productivity, removing bottlenecks, and prioritising safety.

Who we work with...



“I’d certainly be happy to recommend the MasterMover AGV to other organisations looking to automate their driving processes.”

Kevin Jones
Principle Engineer -
Assembly Manufacturing, Toyota

Electric tugs in action



Engineered
innovation.
Performance
guaranteed.

MasterMover[®]