

**MasterMover®**

# MasterTow AGV

Towing AGV Systems



# MasterTow AGV



## Overview

The MasterTow AGV range is ideally suited to towing trains of carts in industrial manufacturing and logistics environments, driving greater efficiency in material handling processes. With a design focused on durability, the MasterTow AGV range is trusted by leading organizations to work in the toughest environments.

Based on our established pedestrian range of tow tugs, the MasterTow AGV range is built with the power to move the heaviest loads – and with best-in-class AGV technology, it does it day-in, day-out. With the MasterTow AGV range, you'll also benefit from a fully flexible solution with dual-use functionality, enabling your MasterTow AGV to operate as an AGV or, as a pedestrian unit when needed.

## Key Features

Combining best-in-class vehicle design, safety systems, and navigation technology, the MasterTow AGV range is the perfect solution for delivering safe, accurate material handling processes in your operations.

- Natural feature navigation
- Heavy payload handling
- Tow multiple loads at once
- Outdoor AGVs available



## Technology

### Natural Feature Navigation



Equipped with Natural Feature navigation, the range utilizes sensors and scanning systems to navigate autonomously by detecting and mapping your environment. The sensors ensure a programmed response to any detected hazard or obstacle, stopping the machine until the obstruction has been removed.

This system makes the MasterTow AGV range ideal for working across repeatable processes such as lineside deliveries, towing mother and daughter carts or creating pulse production lines.

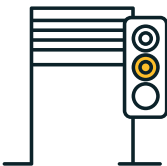
### GNSS Outdoor



The MasterTow AGV range is also available with GNSS navigation for safe, robust, and accurate navigation outdoors.

Receiving real-time kinematic (RTK) positioning from satellites into the AGV's receiver, our AGVs deliver pinpoint accuracy – even outside.

# Technology continued

| Fleet Management  |  |
|---|--|
|  | <p>All our AGVs can be programmed to interact with your systems and infrastructure to ensure efficient, seamless, and safe operation.</p> <p>Our fleet management software enables easy vehicle tracking and route optimization as well as allowing our AGVs to interact with traffic controls, shutter doors, and other infrastructure.</p> |

## Our MasterTow AGV Range

A range of MasterTow AGVs is available. We can also design and create custom MasterTow AGV solutions to your specific requirements.



## Technical Specification

| Machine                         | TOW300 AGV   |
|---------------------------------|--|
| Maximum load (on castors)       | 6,600 lbs.   |
| Machine length x width x height | 54.1" x 34.6" x 96"*                                   |
| Drive type                      | Electric   |
| Braking                         | Regenerative   |
| Parking brake                   | Electromagnetic  |
| Drive wheel type                | Solid Rubber   |
| Drive motor power               | 2 x 1.5 kW   |
| Castor wheel type               | Non Marking vulcanized elastic                         |
| Navigation type                 | Natural Feature   Line Follow (Optional)               |
| Maximum slope                   | 5°   |
| Voltage                         | 24 v   |
| Noise level                     | Motor ≤80 dBA   Flashing light ≤85 dBA   Horn ≤112 dBA |
| Metal work finish               | Powder coat paint & zinc plated                        |
| IP rating                       | IP55   |

\*These dimensions are an indicative guide and custom solutions can also be designed.

# Technical Specification

| Machine                         | TOW600 AGV   |
|---------------------------------|--|
| Maximum load (on castors)       | 13,200 lbs.  |
| Machine length x width x height | 54.1" x 39.4" x 96"*                                   |
| Drive type                      | Electric   |
| Braking                         | Regenerative   |
| Parking brake                   | Electromagnetic  |
| Drive wheel type                | Solid Rubber   |
| Castor wheel type               | Non Marking vulcanized elastic                         |
| Navigation type                 | Natural Feature   Line Follow (Optional)               |
| Maximum slope                   | 5°   |
| Voltage                         | 24 v   |
| Noise level                     | Motor ≤80 dBA   Flashing light ≤85 dBA   Horn ≤112 dBA |
| Metal work finish               | Powder coat paint & zinc plated                        |
| IP rating                       | IP55   |

| Machine                         | TOW1000 AGV  |
|---------------------------------|--|
| Maximum load (on castors)       | 22,000 lbs.  |
| Machine length x width x height | 59.1" x 39.4" x 96.0"*                                 |
| Drive type                      | Electric   |
| Braking                         | Regenerative   |
| Parking brake                   | Electromagnetic  |
| Drive wheel type                | Solid Rubber   |
| Castor wheel type               | Non Marking vulcanized elastic                         |
| Navigation type                 | Natural Feature   Line Follow (Optional)               |
| Maximum slope                   | 5°   |
| Voltage                         | 24 v   |
| Noise level                     | Motor ≤80 dBA   Flashing light ≤85 dBA   Horn ≤112 dBA |
| Metal work finish               | Powder coat paint & zinc plated                        |
| IP rating                       | IP55   |

# Technical Specification

| Machine                         | TOW1500 AGV  |
|---------------------------------|--|
| Maximum load (on castors)       | 33,000 lbs.  |
| Machine length x width x height | 66.9" x 47.2" x 96"*                                   |
| Drive type                      | Electric   |
| Braking                         | Regenerative   |
| Parking brake                   | Electromagnetic  |
| Drive wheel type                | Solid Rubber   |
| Castor wheel type               | Non Marking vulcanized elastic                         |
| Navigation type                 | Natural Feature   Line Follow (Optional)               |
| Maximum slope                   | 5°   |
| Voltage                         | 24 v   |
| Noise level                     | Motor ≤80 dBA   Flashing light ≤85 dBA   Horn ≤112 dBA |
| Metal work finish               | Powder coat paint & zinc plated                        |
| IP rating                       | IP55   |

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