

Autonomous Tugger

WITH MARK 3 BEST-IN-CLASS PERFORMANCE

The Autonomous Tugger is a key player in high-capacity transport. This self-driving tow tractor autonomously performs on-demand lineside replenishment, long distance high-throughput hauling, and non-conveyable transport at sortation hubs. Now with Mark 3 technology, you'll achieve industry leading top speeds while you improve workflow efficiencies, worker productivity, and profitability.



MARK 3 BEST-IN-CLASS PERFORMANCE

- Industry leading top speed at 3 M/S (6.7 MPH)
- Faster acceleration and deceleration
- Quickest autonomous pallet pickups
- State-of-the-art path planning, obstacle avoidance
- Continuous learning for improved operations
- Leading-edge 3D perception

SPECIFICATIONS	IMPERIAL	METRIC
MAX PAYLOAD	9920 lbs	4500 kg
DIMENSIONS (LXWXH)	65.1 in x 43.4 in x 81.1 in	1653 mm x 1103 mm x 2061 mm
WEIGHT (LESS BATTERY)	584 lbs	1284 kg
VEHICLE SPEED	4.5 mph	2 m/s
TURNING RADIUS	With 4 quadsteer carts: 9.5 ft	2.9 m
	With 4 caster carts: 14 ft	4.27 m
MINIMUM AISLE WIDTH AT MAX SPEED	9.2 ft	2.8 m
CART TYPE	Quadsteer	
MAX TRAIN LENGTH	4 carts	
SAFETY SYSTEM	ISO 13849-1:2015 PL=d-rated sensors and safety controllers, ANSI / ITSDF B56.5 compliant	
CONTROL	Autonomous Mode: Multisensor Fusion	
	Manual Mode: Ride-on with steering tiller	
POWER SOURCE	Compatible with standard lead acid and TPPL batteries	
RUN TIME	Up to 8+ hours per full charge	
CHARGING	4 hours charge time, opportunistic charging, autonomous docking	
TASK ALLOCATION	On-robot touchscreen / remote user interfaces / WMS integration	
FLEET MANAGEMENT & ORCHESTRATION	Pivotal™ Orchestration Engine	
SUPPORT	24/7 remote support via Vecna Robotics' US-based Network Operations Center	

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