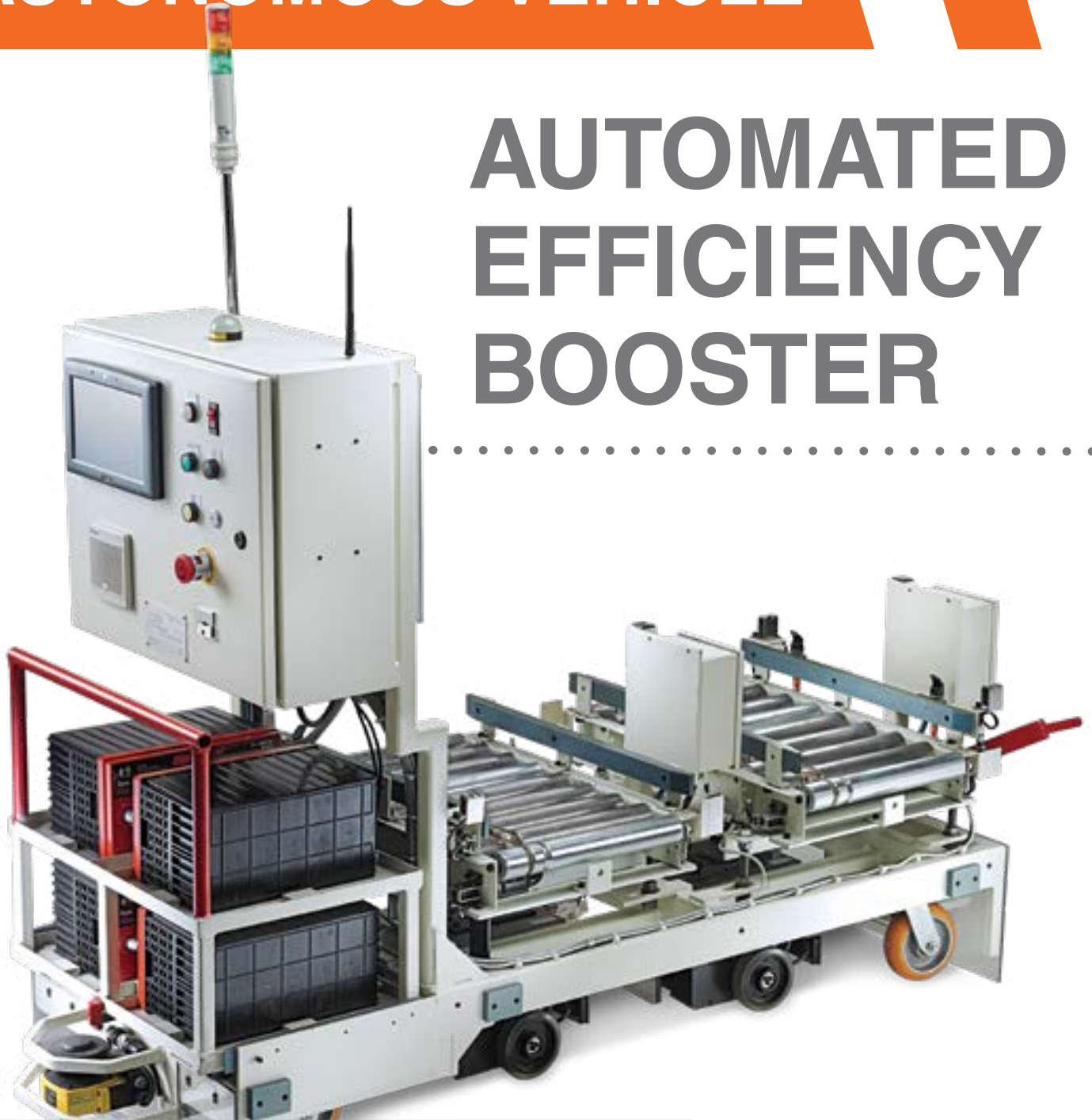


L-CART AUTONOMOUS VEHICLE

AUTOMATED EFFICIENCY BOOSTER



- ▶ 1100 – 3500 lb. Capacity
- ▶ 24-Volt DC Brushless Motor
- ▶ RFID Tags for Command Structure
- ▶ Wireless Connectivity
- ▶ Built to Fit Your Needs

Bastian
AUTONOMOUS
VEHICLES

A TOYOTA ADVANCED LOGISTICS COMPANY

CAPACITY
1100 – 3500 LBS.

MAXIMUM DRAWBAR PULL
101 LBF.

VOLTAGE
24



TRUCK MODEL NUMBERS	ACBE5S	ACBE10S	ACBE8D	ACBE16D
Travel Direction	Forward Only	Forward Only	Forward/Reverse	Forward/Reverse
Maximum Weight Capacity ¹	1102 lbs (500 kg)	2205 lbs (1000 kg)	1764 lbs (800 kg)	3527 lbs (1600 kg)
Maximum Drawbar	66 lbf (30 kgf)	132 lbf (60 kgf)	101 lbf (46 kgf)	198 lbf (90 kgf)
Speed (Maximum)	60 m/min	30 m/min	60 m/min	30 m/min

UNIVERSAL DATA

Electrical System	24-Volt		
Guidance Method	Magnetic Induction		
Travel Instruction Method	Multi-Route Controller		
Steering Method	Differential (2 Driving Wheels)		
Braking Method	Electromagnetic		
Drive Unit Up/Down Method	Push Button Powered Lift		
Circuit Protection	Drive Motor Overload		
Minimum Turning Radius	24 in (600 mm)		
AGV Weight (with batteries)	75 lbs (34 kg)		
Drive Train Specifications	Motor	DC Brushless Stepper Motor	
	Wheels	Urethane Drive Wheels (5" diameter x 1" wide)	
	Torque Transfer	Gear to Gear Direct Drive "No Chains"	
Dimensions	Drive Unit	13.8 in x 13.9 in x 9.4 in (351 mm x 355 mm x 239 mm)	
	Control Box	15.7 in x 13.7 in x 4.7 in (400 mm x 350 mm x 120 mm)	
Floor Conditions	Slope	2% or less	
	Step (ridge)	5 mm or less	
	Gap (crack)	20 mm or less	
	Waviness	10 mm or Less Over Length of AGV	
Working Environment	Temperature	32-104° F (0-40° C)	
	Humidity	20 - 05% RH (no condensation)	
	Outdoor Use	Prohibited	

▶ **BASE KIT**

- Industrial PC with enclosure
- RF module (radio) 900 MHz

▶ **ACCESSORIES**

- LIAISON—traffic control software (optional kiosk with industrial PC available)
- Magnetic guide tape—2" wide x 100' roll
- Magnetic guide bar—1/4" x 3/8" x 20' roll
- Drive unit
- Laser optical scanner
- CAT 3 safety circuit
- 3-color stack light
- Protective tape for guide path—4" wide x 164' long (multiple colors available)
- RFID tag—22 mm x 3 mm
- 24V/40-amp battery charger (requires 110V power supply)

▶ **OPTIONAL**

- Automatic battery charging contacts

▶ **CUSTOM INTEGRATION**

Lifts, conveyors, actuators, etc. can be integrated to custom fit the L-Card AGV to your process. PLC with Ethernet can be linked with RF wireless to give you full control of navigation and functions.



¹ Including vehicle weight. Weight capacity is an estimate ONLY. Actual capacity depends on dolly configuration (shape, size, weight, casters).