

PRIMARY APPLICATIONS

ASSEMBLY
KITTING
STAGING
TRANSFER

Flexible build-line conveyance
Collection of parts for assembly
Lineside delivery of components
Loading dock to warehouse



AUTONOMOUS GUIDED VEHICLES (AGVS)

Agile and maneuverable, the LD1500 was designed to reliably and cost effectively handle smaller loads in tight quarters

KEY FEATURES

- INDUSTRIAL-GRADE CONSTRUCTION**
Reinforced and welded steel structure provides strength and stability for heavy duty drive steering units
- NATURAL FEATURE NAVIGATION**
BlueBotics™ technology package for best-in-class navigation in complex plant environments
- SAFETY-RATED PERFORMANCE**
Equipped with safety-rated scanners and zone programming to avoid collisions while minimizing false positives
- INDUSTRY-STANDARD COMPONENTS**
Powered by Allen-Bradley PLC, Proface HMI, and Keyence laser scanner that are familiar to every plant team



ATTACHMENTS

ROBOTS



Top-deck and companion frame mounted options

FRAMES



Standard and custom designed load frames for application-specific payloads

TRUNNIONS



Rotate product 360 degrees for operator access and ergonomics

CONVEYORS



Power-rollers to interface with facility conveyer systems

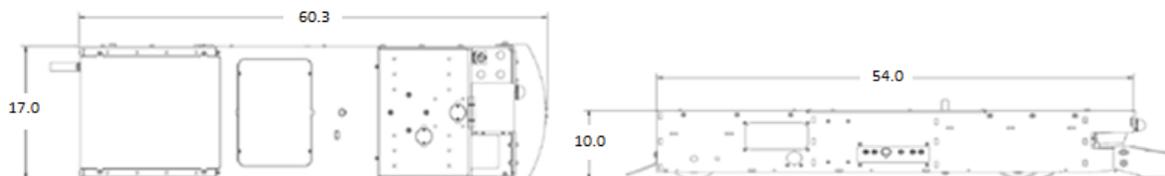
LIFTS



Scissor lifts to pick up, drop off, and elevate product to ergonomic work heights

TECHNICAL SPECIFICATIONS

SIZE AND WEIGHT	DIMENSIONS	50.25 x 17 x 10 in. (1,276 x 432 x 254 mm)
	MASS	500 lbs (227 kg)
SPEED AND PERFORMANCE	MAXIMUM SPEED	150 feet per minute (0.76 m/s)
	MAXIMUM ACCELERATION	30 in/s ² (0.76 m/s ²)
	MAXIMUM DECELERATION	-30 in/s ² (0.76 m/s ²)
	MINIMUM TURN RADIUS	39 inches / wheelbase
	POSITIONAL ACCURACY	+/- 0.5 inches (13 mm)
	ON-DECK LOAD CAPACITY	500 lbs (227 kg)
	TOWING LOAD CAPACITY	1,500 lbs (680 kg)
POWER AND CHARGING	DRIVE VOLTAGE	24 VDC
	DRIVE POWER	250 W
	BATTERY CAPACITY	62 Ah
	PLUG-IN CHARGING	25 A on-board standard
	AUTOMATIC CHARGING	40 A standard (higher available)
CONTROL AND COMMUNICATION	CONTROL HARDWARE	Microprocessor (MPU) or Allen-Bradley CompactLogix
	USER INPUT INTERFACE	Proface HMI, program port, control pendant
	COMMUNICATION	Radio (900 MHz or 2.4 GHz), WiFi (5 GHz), UWB
	AUDIO / VISUAL	Programmable sound module, LED indicator light
	TRAFFIC CONTROL	Cart-to-Cart RF and/or Master Control Panel (MCP)
	CONFIGURABLE I/O	12in/8out (MPU), 6in/8out (PLC), expandable
ENVIRONMENTAL REQUIREMENTS	TEMPERATURE RANGE	45 to 95 F (7 to 35 C)
	HUMIDITY RANGE	25% to 95%, non-condensing
	FLOOR VERTICAL CRACKS/GAPS	0.25 in. (6 mm) max.
	FLOOR HORIZONTAL CRACKS/GAPS	0.25 in. (6 mm) max.
	FLOOR FLATNESS	1.5 degree and 1/2 in. within 5 ft.
	FLOOR FRICTION	0.6 static coefficient min., no loose debris
	FLOOR CONDUCTIVITY	Static Dissipative, <math> < 5 \times 10^9 \Omega </math>



Note: Actual AGV weight and performance values will vary by application and AGV configuration. Listed technical specifications for reference only. Please e-mail RFQ@ECKHARTUSA.COM for more detailed application engineering.