

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)

An industrial workhorse, the E3500 has a decade-long track record of delivering reliable, cost-effective performance

KEY FEATURES

1

INDUSTRIAL-GRADE CONSTRUCTION

Reinforced and welded steel structure provides strength and stability for heavy duty transaxle drive and steering units

2

NATURAL FEATURE NAVIGATION

BlueBotics™ technology package for best-in-class navigation in complex plant environments

3

SAFETY-RATED PERFORMANCE

Equipped with safety-rated scanners and zone programming to avoid collisions while minimizing false positives

4

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 conveyor systems

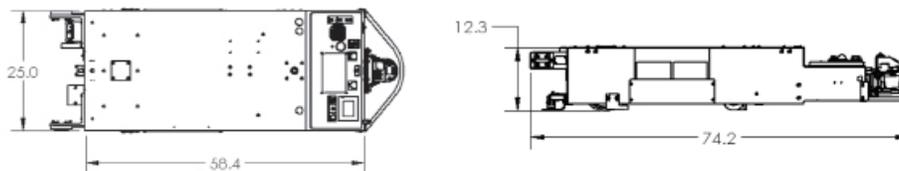
LIFTS



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

TECHNICAL SPECIFICATIONS

SIZE AND WEIGHT	DIMENSIONS	74.2 x 25.0 x 12.3 in. (1,884 x 635 x 311 mm)
	MASS	555 lbs (252 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 (1 meter)
	POSITIONAL ACCURACY	+/- 0.5 inches (13 mm)
	ON-DECK LOAD CAPACITY	1,000 lbs (454 kg)
	TOWING LOAD CAPACITY	3,500 lbs (1,588 kg)
POWER AND CHARGING	DRIVE VOLTAGE	24 VDC
	DRIVE POWER	900 W
	BATTERY CAPACITY	124 Ah (4 x 62 Ah batteries in series parallel)
	PLUG-IN CHARGING	40 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, <5 x 10 ⁹ Ω



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.