

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)

High capacity with unmatched maneuverability, the DTD10000 is ideal for dependable transport of large and bulky loads

KEY FEATURES

1

INDUSTRIAL-GRADE CONSTRUCTION

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



Drive-by and reach-in style IntelliChargers for all applications

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

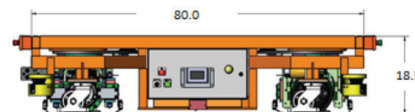
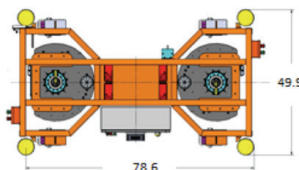
LIFTS



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

TECHNICAL SPECIFICATIONS

SIZE AND WEIGHT	DIMENSIONS	80 x 50 x 19 in. (2,032 x 1,270 x 483 mm)
	MASS	1,200 lbs (544 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	48 inches / wheelbase
	POSITIONAL ACCURACY	+/- 0.5 inches (13 mm)
	ON-DECK LOAD CAPACITY	10,000 lbs (4,536 kg)
	TOWING LOAD CAPACITY	10,000 lbs (4,536 kg)
POWER AND CHARGING	DRIVE VOLTAGE	24 VDC
	DRIVE POWER	450 W
	BATTERY CAPACITY	124 Ah
	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, <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.