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LD1500

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

PRIMARY APPLICATIONS

Assembly - Flexible build-line conveyance

Kitting - Collection of parts for assembly

Staging - Lineside delivery of components

Transfer - Loading dock to warehouse

KEY FEATURES

1

Industrial-grade construction

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

2

Multi-modal navigation

Capable of navigating via magnetic tape, RFID, camera, ultra-wideband radar, and dead-reckoning

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 an Allen-Bradley PLC, Proface HMI, and Keyence laser scanner that are familiar to every plant team



SYSTEM COMPONENTS

Chargers



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

Frames



Standard and custom designed load frames for application-specific payloads

Hitches



Automatically actuated tow hitches to couple and decouple rolling payloads

Conveyors



Power-rollers to interface with facility conveyor systems

Lifts



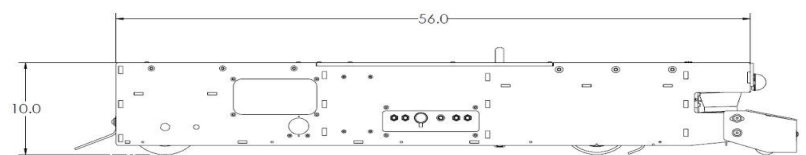
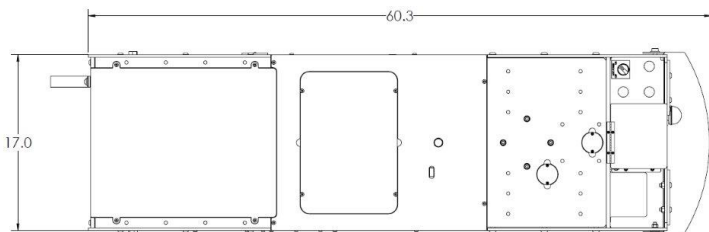
Scissor lifts to pick up, drop off, and elevate product to ergonomic work heights

Advanced Material Handling & Assembly Systems for Modern Manufacturing

Technical Specifications



Size and Weight	Dimensions	50.25 x 17 x 10 in. (1276 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	0 inches / wheelbase
	Positional Accuracy	+/- 0.5 inches (13 mm)
	On-Deck Load Capacity	500 lbs (227 kg)
	Towing Load Capacity	1500 lbs (680 kg)
	Power and Charging	Drive Voltage
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
	Plant Data / IIoT Connectivity	Systems status and diagnostics reporting with MCP
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	0.4 in. (10 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, $5 \times 10^9 \Omega$



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