

# AUTOCRAFT

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# E3500

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

## 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



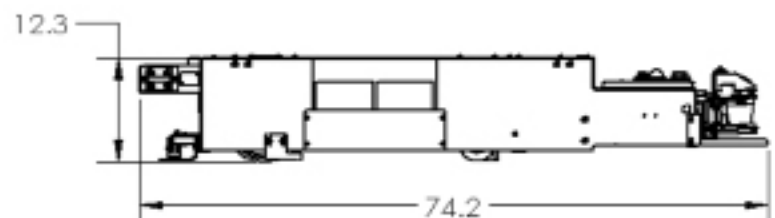
Scissor lifts to pick up, drop off, and elevate product to ergonomic work heights

Advanced Material Handling & Assembly Systems for Modern Manufacturing

# Technical Specifications



Size and Weight	<b>Dimensions</b>	74.2 x 25.0 x 12.3 in. (1884 x 635 x 311 mm)
	<b>Mass</b>	555 lbs (252 kg)
Speed and Performance	<b>Maximum Speed</b>	165 feet per minute (0.85 m/s)
	<b>Maximum Acceleration</b>	30 in/s <sup>2</sup> (0.76 m/s <sup>2</sup> )
	<b>Maximum Deceleration</b>	-30 in/s <sup>2</sup> (0.76 m/s <sup>2</sup> )
	<b>Minimum Turn Radius</b>	39 inches (1 meter)
	<b>Positional Accuracy</b>	+/- 0.5 inches (13 mm)
	<b>On-Deck Load Capacity</b>	1000 lbs (454 kg)
	<b>Towing Load Capacity</b>	3500 lbs (1588 kg)
	Power and Charging	<b>Drive Voltage</b>
<b>Drive Power</b>		900 W
<b>Battery Capacity</b>		124 Ah (4 x 62 Ah batteries in series parallel)
<b>Plug-in Charging</b>		40 A on-board standard
<b>Automatic Charging</b>		40 A standard (higher available)
Control and Communication	<b>Control Hardware</b>	Microprocessor (MPU) or Allen-Bradley CompactLogix
	<b>User Input Interface</b>	Proface HMI, program port, control pendant
	<b>Communication</b>	Radio (900 MHz or 2.4 GHz), WiFi (5 GHz), UWB
	<b>Audio / Visual</b>	Programmable sound module, LED indicator light
	<b>Traffic Control</b>	Cart-to-Cart RF and/or Master Control Panel (MCP)
	<b>Configurable I/O</b>	12in/8out (MPU), 6in/8out (PLC), expandable
	<b>Plant Data / IIoT Connectivity</b>	Systems status and diagnostics reporting with MCP
Environmental Requirements	<b>Temperature Range</b>	45 to 95 F (7 to 35 C)
	<b>Humidity Range</b>	25% to 95%, non-condensing
	<b>Floor Vertical Cracks/Gaps</b>	0.25 in. (6 mm) max.
	<b>Floor Horizontal Cracks/Gaps</b>	0.4 in. (10 mm) max.
	<b>Floor Flatness</b>	1.5 degree and 1/2 in. within 5 ft.
	<b>Floor Friction</b>	0.6 static coefficient min., no loose debris
	<b>Floor Conductivity</b>	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@AUTO-CRAFT.COM](mailto:RFQ@AUTO-CRAFT.COM) for more detailed application engineering.