



Lift EL1 AMR

2,700 LB CAPACITY | 3.4 MPH FULLY LOADED | 5' 2" LIFT HEIGHT

Compact, cost-effective, and built for real-world throughput, the EL1 showcases Seegrid’s next-gen tech stack designed for flexibility in warehousing, 3PL, and large retail fulfillment centers. Scalable autonomy is now more accessible than ever.

Physical AI for the warehouse floor



Compact & Purpose-Built For Low-Lift Workflows

Ideal for space-constrained environments, the EL1 is optimized for high-frequency, low-lift material movement where speed, consistency, and reliability are critical.



Speed Boost Your ROI

Accelerate time to value with an autonomous solution designed for rapid deployment, lower total cost of ownership, and immediate operational impact.



AI-Powered Industry-Leading Payload Detection

Reliably identify and handle the widest variety of payloads with advanced, real-world-tested detection capabilities.



Interoperability Ready with Full VDA Compliance

Engineered for mixed-vendor automation environments -- VDA 5050 2.1 compliant and extensible to emerging standards.



Key Applications for Seegrid Lift EL1

The EL1 delivers a high-performance autonomous material handling solution in a compact, cost-effective form factor—purpose-built for low-lift applications across warehousing, 3PL, and high-volume fulfillment environments.

WAREHOUSING, 3PL, AND LARGE RETAIL FULFILLMENT CENTERS



INBOUND TO BUFFER

Move palletized materials from receiving to short-term buffer zones to keep upstream processes flowing.



INBOUND TO PUTAWAY

Efficiently transport payloads from inbound staging to bulk storage or other designated locations.



PICK + DROP FROM/TO WRAPPERS, CONVEYORS, ETC

Effortlessly integrate with wrappers, conveyors, and production lines for reliable material handoffs.



OUTBOUND STAGING

Deliver finished goods to staging areas in preparation for shipping and distribution.



CROSS DOCKING

Transfer payloads from any inbound to any outbound with minimal dwell time and zero manual handling.



DUNNAGE HANDLING

Automate the movement and return of empty pallets, containers, and dunnage for continuous operations.

Product Specs

Max. Capacity 2,700 lbs.

Max. Speed 3.4 mph

Vehicle Width 41.3"

Vehicle Length 94.8"

Vehicle Height 86.2"

Reach 62"

Forks ITA Rated
42" Standard
36" - 48" Optional

Safety Multi-layer safety: 2D LiDAR + 2D/3D camera fusion
Advanced path and payload obstruction detection
Emergency stop buttons
LED lightbar for turning and status
Acoustic warning system

Standard Safety Behaviors Automatically stops if an obstruction is detected within the travel path; resumes travel once the obstruction is cleared

Always sounds horn before beginning or resuming autonomous travel

Space Requirements 10ft right angle stacking aisle width
6ft one way travel aisle
1" on either side of payload in staging lanes

Environment Indoor operation only
Temperature 32°F min, 110°F max
Humidity 20-95% RH (non-condensing)
Floor conditions free from oils, moisture, and debris

Features AI-powered pallet & payload detection robust to damage, plastic wrap, and other imperfections
Flexible, infrastructure-free navigation
Interoperable in mixed-vendor automation environments
Fleet management, including job sequencing, power management, and data & analytics