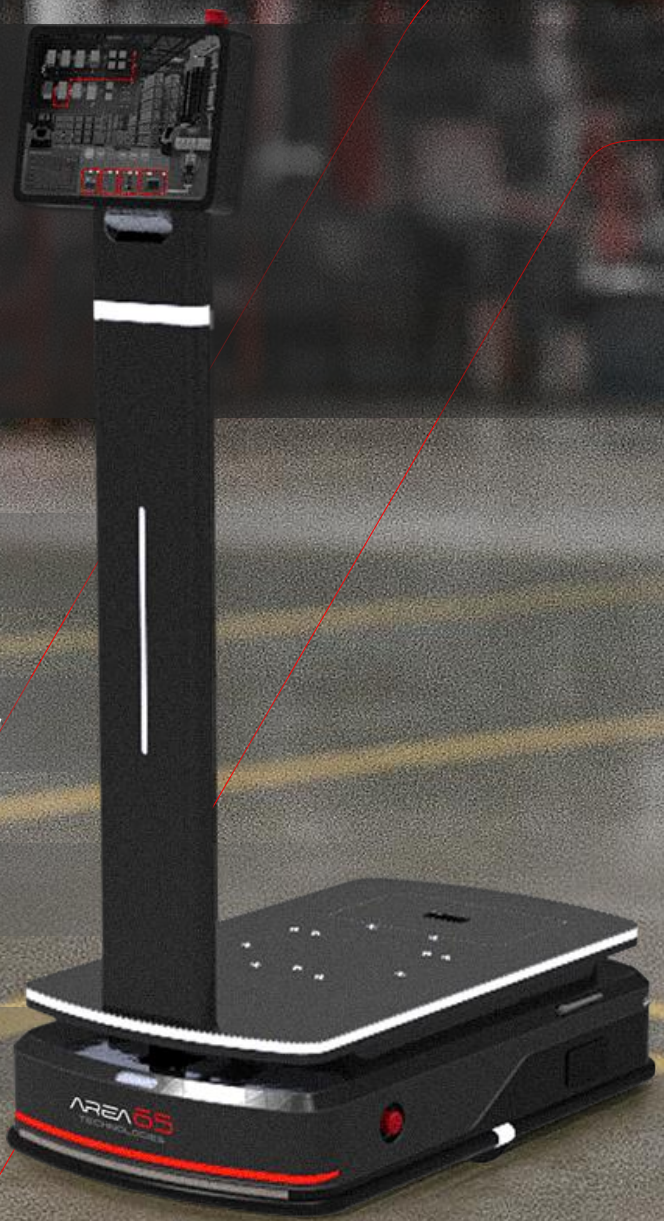
AREA 65
TECHNOLOGIES

AMR E300

- 300 kg of payload
- Self-deploy within a day
- ROI within 6 months
- 24/7 operation



AMR-E300 is a collaborative robot engineered to automate material transport and replace manual handling on the factory floor. Equipped with an advanced autonomous navigation system, it intelligently detects and avoids obstacles, moves freely without floor markers, and operates continuously for seamless, uninterrupted productivity.

PRODUCT HIGHLIGHTS

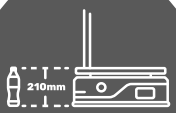
GREAT COST SAVING

- Minimize reliance on manual labor
- Achieve ROI within 6 months
- Enhance operational efficiency and corporate image

USER-FRIENDLY

- Self-deploy and start operation within a single day
- No professional installation or manufacturer commissioning required
- Minimize setup time and costs

COMPACT & VERSATILE



- Compact chassis height of only **210mm**
- Seamless integration with storage cabinets, rack shelves and other cargo modules

LONG ENDURANCE

- Advanced battery-swap technology
- Run 24/7 with sub-minute battery replacement
- Also configurable for fully autonomous dock-and-charge operation with no manual intervention required

HIGH STABILITY & ACCURACY

- Powered by precision servo motors
- Exceptionally smooth motion and superior positioning accuracy - even at maximum payload

SAFETY ASSURANCE

- Advanced obstacle avoidance system integrating both laser and vision technologies for enhanced safety and operational reliability

PRODUCT HIGHLIGHTS

PRODUCT SPECIFICATIONS

Available in **Standard E300** (operators manually place the payload onto the cargo bed) and **Lift E300 PRO** (AMR cargo bed can automatically lift up a rack) variants.

	MODEL	STANDARD	LIFT
BASIC	Product Name	AMR E300	AMR E300 PRO
	Navigation Method	Laser SLAM	Laser SLAM
	Chassis Type	Two-wheel Differential	Two-wheel Differential
	L x W x H	785 x 470 x 1300mm	785 x 470 x 1300mm
	Rational Diameter	840mm	840mm
	AMR Weight (Including Battery)	100kg	100kg
	Maximum Load	300kg	300kg
	Ground Clearance	25mm	25mm
	Maximum Lift Height	N/A	60mm
	Temperature and Humidity Range	Temperature: 0°C to 45°C Humidity: 10% to 90%, Non-condensing	Temperature: 0°C to 45°C Humidity: 10% to 90%, Non-condensing
PERFORMANCE	Passability (Slope/Step/Gap)	≤ 5° /5 mm /20mm	≤ 5° /5 mm /20mm
	Navigation Confidence Level	≥ 70%	≥ 70%
	Minimum Passage Width	600mm	600mm
	Positional Accuracy	±10mm	±10mm
	Angle Accuracy	±1°	±1°
	Navigation Speed	≤ 1.5m/s	≤ 1.5m/s
BATTERY	Battery Type	Ternary Lithium	Ternary Lithium
	Battery Specifications	48V/15Ah	48V/15Ah
	Endurance Time	6h	6h
	Charging Method	Automatic/Manual	Automatic/Manual
	Battery Swap Time	<1min	<1min
	Charging Time	< 1.5h	< 1.5h
	Cycle Life	≥ 1000 Times	≥ 1000 Times

PRODUCT SPECIFICATIONS

APPLICATION SCENARIOS

Engineered for **logistics operations**, **advanced manufacturing hubs**, and **smart city ecosystems**, our robots support modular integration with a wide range of load-bearing units – enabling customized solutions that optimize **flexibility** and **operational efficiency**.

STANDARD E300

Operators manually place the payload onto the cargo bed.

LIFT E300 PRO

AMR cargo bed can automatically lift up a rack.

APPLICATION SCENARIOS

AREA65 TECHNOLOGIES

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