

Better Performance Better Value

Flexible Picking Solutions for
Your Warehouse



ForwardX Flex AMRs

Reshape your business intelligently

The Flex family is highly scalable and can be adapted to different scenarios through a variety of functional modules.



ForwardX AMRs Integrated Accessories

Lifting

Lifting: combined with the onboard sensors, the AMR is able to autonomously locate and dock to racks across the warehouse floor.

Screen

Interactive touch screen: configured to fit with the users' business needs, tasks are clear and concise to optimize efficiency.

Carrier

Multi-layered carrier: equipped with LED indicators, the loading capacity is increased and sorting is done on the fly.

Printer

Printer: on-board printer prints shipping manifests directly, reducing operational steps.

RFID

RFID scanner: real-time review of product SKUs and quantities improve picking accuracy and optimizes workflows.

Barcode

Barcode scanner: reviews product codes as items are picked, so pickers can improve accuracy and optimize the picking process.

ForwardX Flex AMRs

Intelligently reshaping warehousing and logistics business processes

Flex 300-L models are equipped with a lifting function, that when combined with the sensors and cameras allow for autonomous rack position detection and docking. The fully unmanned handling of racks and picking containers reduces personnel involvement and drastically increases efficiency and productivity in the picking process.

Flex 300-S integrates a touch-screen interface directly attached to the AMR. The software can be adapted to users' needs with visuals, bar codes, item quantities, etc.

Flex 300-SCB is the triple decker AMR and can be equipped with optional printers, RFID scanners, and barcode scanners. Flex 300-SCB is best suited to piece-picking and sorting operations. The three-level design allows employees to organize shipments as they are picked. The easy-to-follow instructions not only lets the worker know what to pick but exactly where it should be placed on the installed rack. Flex 300-SCB significantly reduces the time it takes to pick, pack, and review every order leading to a drastic improvement in worker efficiency and units picked per hour.



Flex 300-L



Flex 300-S



Flex 300-SCB



Flex 300-L



Flex 300-S



Flex 300-SCB

Dimensions

Length	950 mm (37.40 in)	950 mm (37.40 in)	1,050 mm (41.33 in)
Width	650 mm (25.59 in)	650 mm (25.59 in)	650 mm (25.59 in)
Height	295 mm (11.61 in)	295 mm (11.61 in)	295 mm (11.61 in)
Height (with extension)	330 mm (12.99 in)	1,240 mm (48.81 in)	1,600 mm (62.99 in)
Ground Clearance	20 mm (0.78 in)	20 mm (0.78 in)	20 mm (0.78 in)

Payload

Weight	130kg (286 lbs)	100kg (220 lbs)	130kg (286 lbs)
Max. Payload	300kg (661 lbs)	300kg (661 lbs)	300kg (661 lbs)
Load Surface	670x390 mm (26.37x15.35 in)	810x650 mm (31.88x25.59 in)	845x650 mm (33.26x25.59 in)

Performance

Navigation Mode	Natural/Road Network/Hybrid/Follow
Positioning Mode	Laser SLAM/Visual Tag/Visual Semantics

Communication

Wi-Fi (IEEE 802.11a/b/g/n/ac)	Yes
Wi-Fi (IEEE 802.11ax)	Optional
Cellular Network (Public 4G/5G)	Optional
Cellular Network (Private LTE)	Optional

Power

Endurance	~8 hrs per charge
Battery Type	Li-LFP
Charging Mode	DC CC-CV
Battery Swap	Yes

Sensors

LIDAR	2
UWA Cameras (front)	1
UWA Cameras (side)	2
3D Cameras	1
Odometer	1
IMU	1

Interaction

Audio	Yes
Lights	4 (four sides)
Screen	Yes

Safety

Safety Contact Edge	2 (front/rear)	2 (front/rear)	2 (front/rear)
Emergency Stop Button	2 (front/rear)	2 (front/rear)	4 (front/rear)



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