PALLET STACKER AMR

F12ML Series



1,500
kg at 2,000 mm
PAYLOAD

3,244
mm lift height
MAXIMUM HEIGHT

2,500
mm aisle
WIDTH REQUIRED

APPLICATIONS

Putaway and retrieval
Driverless pallet putaway and retrieval at heights of up to 3.2 m.

Line feeding
Supplying production stations and moving work in progress.

Inbound and outbound docks
Handling received pallets and staging outbound shipments.

Equipment interfacing
Drop-off and pick-up at conveyors and automated storage systems.


F12ML-WL VERSION

Two versions, one common platform

The standard version covers most pallet types on the market. The wide-leg WL version picks up closed-bottom pallets directly, with no ground support frame and no manual handling. Same navigation, same safety level, same fleet supervision.

SECTORS · Pharmaceuticals · Food & beverage · E-commerce · 3PL · Retail · Manufacturing

Isitec International

Isitec International is a French group with its head office in France, AURA region near Lyon. Created in 2002 ISITEC International is now present with 5 subsidiaries in Europe and North Africa. With a growth of more than 85% over the last 5 years, ISITEC is accelerating its development based on technology and these 3 historical targets, the general services of large companies, manufacturing industries and the Post Office. The diversity of countries and customers makes ISITEC International less sensitive to the exceptional events that now occur more and more regularly.

Key Benefits

Certified PLd safety

Full compliance with ISO 3691-4:2020, CE marked. Emergency stop rated PLe; obstacle avoidance, speed monitoring and protected fork stop rated PLd. Two side lasers, one rear laser, two fork lasers and a front 3D camera.

Wireless charging, one charger for three robots

No brushes, no exposed metal contacts: no oxidation or sparking risk, no mechanical wear, no charger maintenance. A single charging station serves three robots, cutting infrastructure investment accordingly.

3D vision pallet recognition

The depth camera detects obstacles from 0.2 m to 3.5 m across a 70° x 50° field and identifies any object over 150 mm in diameter. The robot corrects its own approach before pick-up, within ±5° and ±10 cm.

Closed-bottom pallets, no manual handling

The wide-leg F12ML-WL picks up closed-bottom pallets directly, with no ground support frame and no intermediate handling. The standard version handes these via a fixed support cradle.

SPECIFICATIONS

Parameter	F12ML	F12ML-WL
CAPACITY		
Payload	1,500 kg at 2,000 mm 1,200 kg at 2,500 mm 1,000 kg at 3,000 mm	1,500 kg
Lift height (mm)	2,324 / 2,844 / 3,244	2,344
DIMENSIONS		
Dimensions L × W × H (mm)	1,707 × 1,050 × 2,076	1,742 × 1,546 × 2,093
Turning radius (mm)	1,163	1,250
Aisle width required (mm)	2,500	2,650
Fork dimensions (mm)	180 × 55 × 1,200	100 × 45 × 1,200
Fork spread (mm)	560 / 620 / 680	560 / 620 / 680
PERFORMANCE		
Forward speed	1.5 m/s (90 m/min)	1.5 m/s (90 m/min)
Reverse speed	0.3 m/s (18 m/min)	0.3 m/s (18 m/min)
Turning speed	18 to 36 m/min	18 to 36 m/min
POWER AND NAVIGATION		
Battery	Li-ion 24 V / 150 Ah	Li-ion 24 V / 150 Ah
Charging	Wireless, 1:3 ratio	Wireless, 1:3 ratio
Navigation	Laser SLAM	Laser SLAM
SAFETY		
Detection	Lidar, 3D camera, photoelectric detection, position monitoring	Lidar, 3D camera, photoelectric detection, position monitoring
Compliance	ISO 3691-4:2020 · CE	ISO 3691-4:2020 · CE

ON SITE

- Deployed in your existing aisles, with no civil works required.
- Up to 2,000 robots managed simultaneously, including mixed fleets with other models or other brands through traffic control.
- Robots added or removed as your volumes change.

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