

FLEXLEY STACK

AMR F203



Optimize workplace, workflows, and cost with our AMR F203 for loads up to 250 kg.

AMR F203 provides a high quality and reliable automation solution. Thanks to its cutting edge technologies and advanced SLAM-Natural navigation, this mobile robot allows total flexibility, dynamic planning, quick installation and safe interaction with operators and changing environments.

AMR F203 has been developed to transport loads on trolleys directly from the floor — no transfer stations or conveyors are required. It can carry different types of single or stacked euro containers, which reduces the number of transportations and saves time.

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Flexible

Easy and quick setup, installation and modifications.

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Collaborative

Fully equipped to assure safe and reliable interactions with operators and to communicate with connected elements of your plant.

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Adaptable

Projects are easily scalable, with no infrastructure change needed. This AMR is compatible to work with standard trolleys and KLTs in the market and it can be also customized to suit other load dimensions.

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Innovative

State-of-the-art navigation technology through SLAM-Natural navigation, which provides maximum flexibility at a low cost with minimal maintenance requirements. AMR F203 can rotate on the spot to change direction, saving space and time.

Maximum payload	250 kg
Lifting height	80-130 mm
Load size	Trolleys or roll cage trolleys 400 x 400 mm 600 x 400 mm 800 x 600 mm
Dimensions (L×W×H)	1030 × 500 × 1173 mm
Movement	Bidirectional
Navigation system	SLAM-Natural with predefined virtual path Magnetic fine positioning (optional)
Speed range	Forward: From 0.1 to 1.2 m/s Backward: From 0.1 to 0.3 m/s
Turning diameter	1496 mm (turn on spot)
Positioning accuracy	Up to ± 15 mm / 2° (standard) Up to ± 5 mm / 0.5° (with magnetic fine positioning)
Manual movement	Control pad
Battery	Li-Ion 24V 40 Ah
Charging system	Online charging system (brushes)
Environment	Indoor
Safety systems	1 × Safety PLC 1 × Safety laser 2 × Emergency stop button
Optional elements	Side scanner 360° scanner for localization Side wall for additional balance Customized fork's addon
Handling system	Single fork lifting
Fleet management system	AGV Interface Controller (AIC)
Communication	WiFi
Connectivity	2 × USB, Ethernet Through IT: ERP, MRP, MES, WMS, DDBB interface Industrial connectivity: OPC

