

FLEXLEY STACK

AMR F712



Achieve next-gen material handling with our AI-powered counterbalanced forklift AMR.

Designed for dynamic industrial environments, the AMR F712 combines high-accuracy, high-capacity load handling and seamless integration into warehouse and logistics workflows.

Its Visual SLAM navigation, together with AMR Studio®, provides fast commissioning and flexible deployment without additional infrastructure.

Its counterbalanced design and modular architecture, compatible with different masts and add-ons, give the F712 the flexibility to manage a wide range of applications. With a 2 T (4409 lbs) capacity and a lifting height of up to 8.5 m (334.6 inch), it excels in ground-level transport and conventional and high-density racking, while maintaining consistent stability and outstanding performance.

AI-enabled navigation

Visual SLAM delivers up to ± 10 mm/1° (± 0.39 in & $\pm 1^\circ$) accuracy at the fleet level, ensuring precise and reliable navigation.

Easy and fast installation

AMR Studio® enables fast deployment and 20% quicker commissioning.

Industrial-grade safety

Complies with the highest global safety standards, featuring 360° safety coverage.

Scalability and interoperability

AMR Studio® allows for fast and effective layout modifications and enables faster expansion, ensuring long-term scalability.

Service weight capacity	2000 kg (4409 lbs)
Lifting height	4800 mm (189 in) 6000 mm (236.2 in) 8500 mm (334.6 in)
Residual capacity at maximum lifting height	2000 kg CoG @ 600 mm up to 4500 mm (4409 lb CoG @ 23.6 in up to 189 in) 1183 kg CoG @ 600 mm up to 6000 mm (2608 lb CoG @ 23.6 in up to 236.2 in) 564 kg CoG @ 600 mm up to 8500 mm (1243 lb CoG @ 23.6 in up to 334.6 in)
Dimension (LxWxH)	2887 x 1200 x 2440* mm (113.7 x 47.2 x 96.1* in)
Movement	Bidirectional
Navigation system	Visual SLAM (predefined virtual path)
Speed range	Forward: From 0.05 to 1.7 m/s (0.16 – 5.58 ft/s) Backward: From 0.05 to 1 m/s (0.16 – 3.28 ft/s)
Turning radius	1524 mm (60 in)
Positioning accuracy	Up to ± 10 mm & $\pm 1^\circ$ (Up to ± 0.39 in & $\pm 1^\circ$)**
Manual movement	Wired Control Pad
Battery	Li-ion 48V 251 Ah
Charging system	Online charging system (brushes) External charger
Environment	Indoor
Safety systems	1 x Safety PLC 3 x Safety Laser for indoor environment 2 x Load detection sensor 4 x Fork tip sensors 4 x Emergency stop button
Optional elements	Fork positioner Additional laser pointers for load detection 2nd BlueSpot Drive-in
Handling system	Forks
Fleet management system	AMR Studio® Fleet Manager
Communication	WiFi
Connectivity	HMI Ethernet, IoT Through IT: ERP, MRP, MES, DDBB interface Industrial connectivity: OPC, wired connections
Safety standards compliance	Machinery Regulation EMC 2014/30/EU ISO 13849-1 ISO 3691-4 ANSI B56.5 FCC

* 4.8m/189 in mast configuration. Height may vary depending on mast configuration

** Accuracy stop value depends on several parameters such as environment conditions, fleet size or camera occlusion, among others

