

## FM-X iGo Technical Data

### Automated Reach Truck

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FM-X 12 iGo

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FM-X 17 iGo

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FM-X 25 iGo

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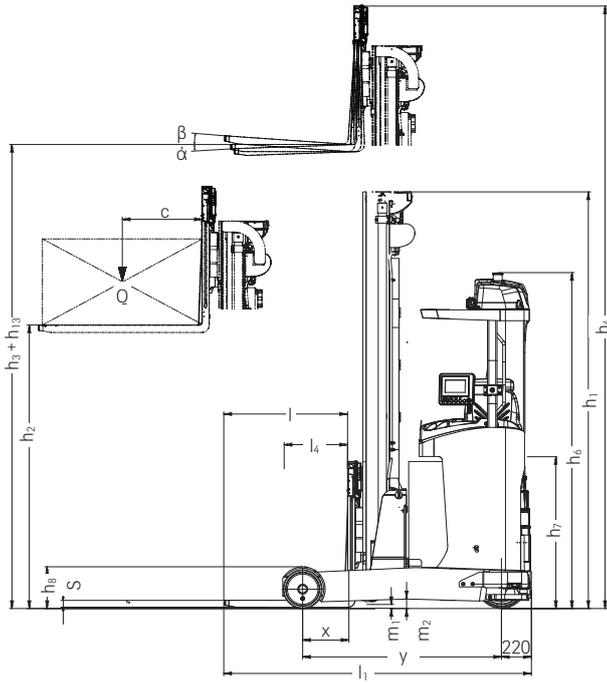




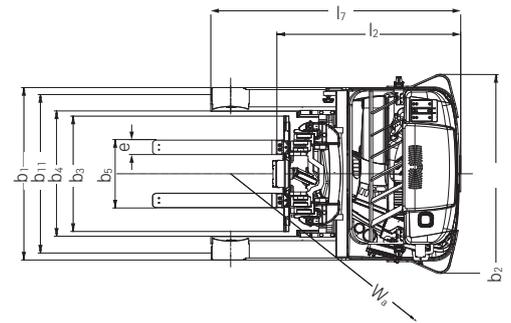
				STILL	STILL	STILL	
Features	1.1	Manufacturer					
	1.2	Manufacturer's type designation			<b>FM-X 12 iGo/Li-Ion</b>	<b>FM-X 17 iGo/Li-Ion</b>	
	1.3	Drive			Electric	Electric	
	1.4	Operation			Seated/automated	Seated/automated	
	1.5	Capacity/load		Q	t	1070	
	1.6	Load centre		c	mm	625	
	1.8	Load distance		x	mm	184	
	1.9	Wheelbase		y	mm	1275	
	2.1	Service weight (incl. battery)			kg	3440	
Weights	2.2	Axle load			unladen front/rear	2280/1250	
	2.3	Axle load, fork advanced			laden front/rear	1000/3730	
	2.4	Axle load, fork retracted			laden front/rear	1970/2760	
	2.5	Service weight (incl. battery)			kg	3670	
	2.6	Service weight (incl. battery)			kg	2790/1330	
Tyres/chassis	3.1	Tyres				Polyurethane	
	3.2	Tyre size			drive end	360x130	
	3.3	Tyre size			load end	285x100	
	3.5	Number of wheels (x = driven)				1x/2	
	3.6	Tread				1x/2	
	3.6	Tread			drive end/load end	b <sub>10</sub> /b <sub>11</sub>	
Dimensions	4.1	Mast/fork carriage tilt			α/β	°	
	4.2	Mast height			lowered	h <sub>1</sub>	
	4.3	Free lift				h <sub>2</sub>	
	4.4	Lift				h <sub>3</sub>	
	4.5	Mast height			extended	h <sub>4</sub>	
	4.7	Height of overhead guard (cabin)				h <sub>5</sub>	
	4.8	Seat height relating to SIP/stand height				h <sub>7</sub>	
	4.10	Height of wheel arms				h <sub>8</sub>	
	4.19	Overall length				l <sub>1</sub>	
	4.20	Length to fork face				l <sub>2</sub>	
	4.21	Overall width				b <sub>1</sub> /b <sub>2</sub>	
	4.22	Fork dimensions			DIN ISO 2331	s/e/l	
	4.23	Fork carriage ISO 2328, class/type A, B				2/A	
	4.24	Fork carriage width				b <sub>3</sub>	
	4.25	Fork spread			min./max.	b <sub>5</sub>	
	4.26	Distance between wheel arms/loading surfaces				b <sub>4</sub>	
	4.28	Reach distance				l <sub>4</sub>	
	4.31	Ground clearance, laden, below mast				m <sub>1</sub>	
	4.32	Ground clearance, centre of wheelbase				m <sub>2</sub>	
	4.34.1	Aisle width for pallets 1000 x 1200 crossways				A <sub>st</sub>	
	4.34.2	Aisle width for pallets 800 x 1200 lengthways				A <sub>st</sub>	
	4.35	Turning radius				W <sub>a</sub>	
	4.37	Length across wheel arms				l <sub>7</sub>	
	Performance data	5.1	Travel speed			laden/unladen	m/s
		5.1.1	Travel speed, backwards			laden/unladen	m/s
		5.2	Lifting speed			laden/unladen	m/s
		5.3	Lowering speed			laden/unladen	m/s
5.4		Reaching speed			laden/unladen	m/s	
5.9		Acceleration time (over 10 m)			laden/unladen	s	
5.10		Service brake					
6.1		Drive motor rating S2 = 60 min				kW	
6.2		Lift motor rating at S3 = 15%				kW	
6.3		Battery according to DIN 43531/35/36 A, B, C, no					
Electric engine	6.4	Battery voltage/nominal capacity K <sub>s</sub>			V/Ah V/kWh		
	6.5	Battery weight (+5%)			kg		

<sup>1</sup> Including 50 mm load overhang

FM-X iGo Automated Reach Truck  
 Technical Drawings



Side view FM-X iGo



Top view FM-X iGo

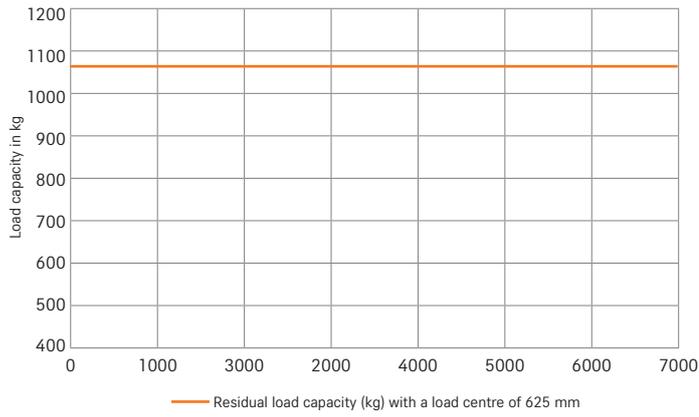
Mast Table

	Triplex						
	Height, mast lowered $h_1$ in mm	Free lift $h_2$ in mm	Free lift $h_2$ in mm with load guard	Lift $h_3$ in mm	Height, mast extended $h_4$ in mm	Height, mast extended $h_4$ in mm with load guard	Maximum pick/drop height
FM-X 12 iGo	2450	1475	1445	5524	6499	6529	5224
	2900	1925	1895	6774	7749	7779	6474
FM-X 17 iGo	2450	1475	1445	5524	6499	6529	5224
	2900	1925	1895	6874	7849	7879	6574
	3400	2425	2395	8374	9349	9379	8074
FM-X 25 iGo	4200	3225	3195	10274	11249	11279	9974
	2450	1475	1445	5354	6329	6359	5054
	2900	1925	1895	6704	7679	7709	6404
	3400	2425	2395	8074	9049	9079	7774
	4200	3225	3195	10474	11449	11479	10174

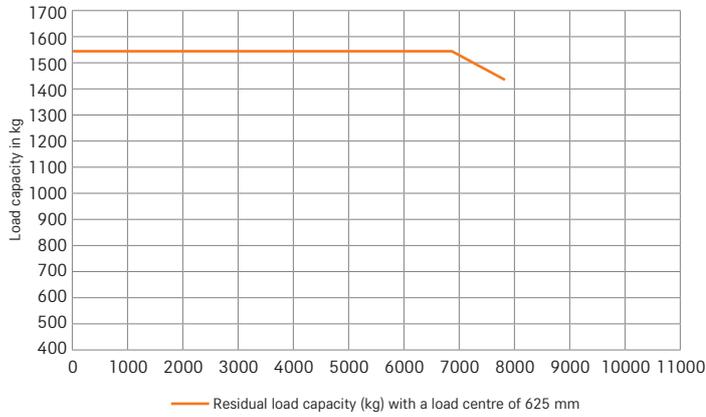
# FM-X iGo Automated Reach Truck

## Basic Load Capacities

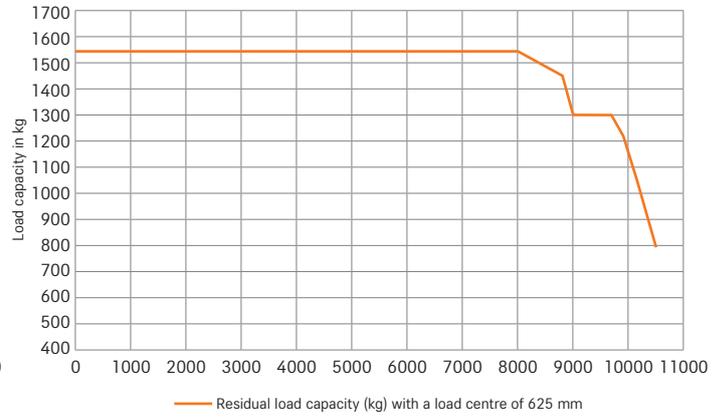
**FM-X 12 iGo**  
**Tray 323 (465 Ah), c = 625 mm**



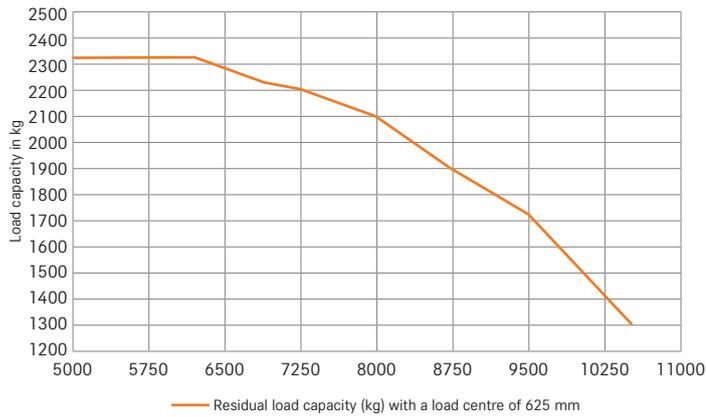
**FM-X 17 iGo**  
**Tray 324 (620 Ah), c = 625 mm**



**FM-X 17 iGo**  
**Tray 325 (775 Ah), c = 625 mm**

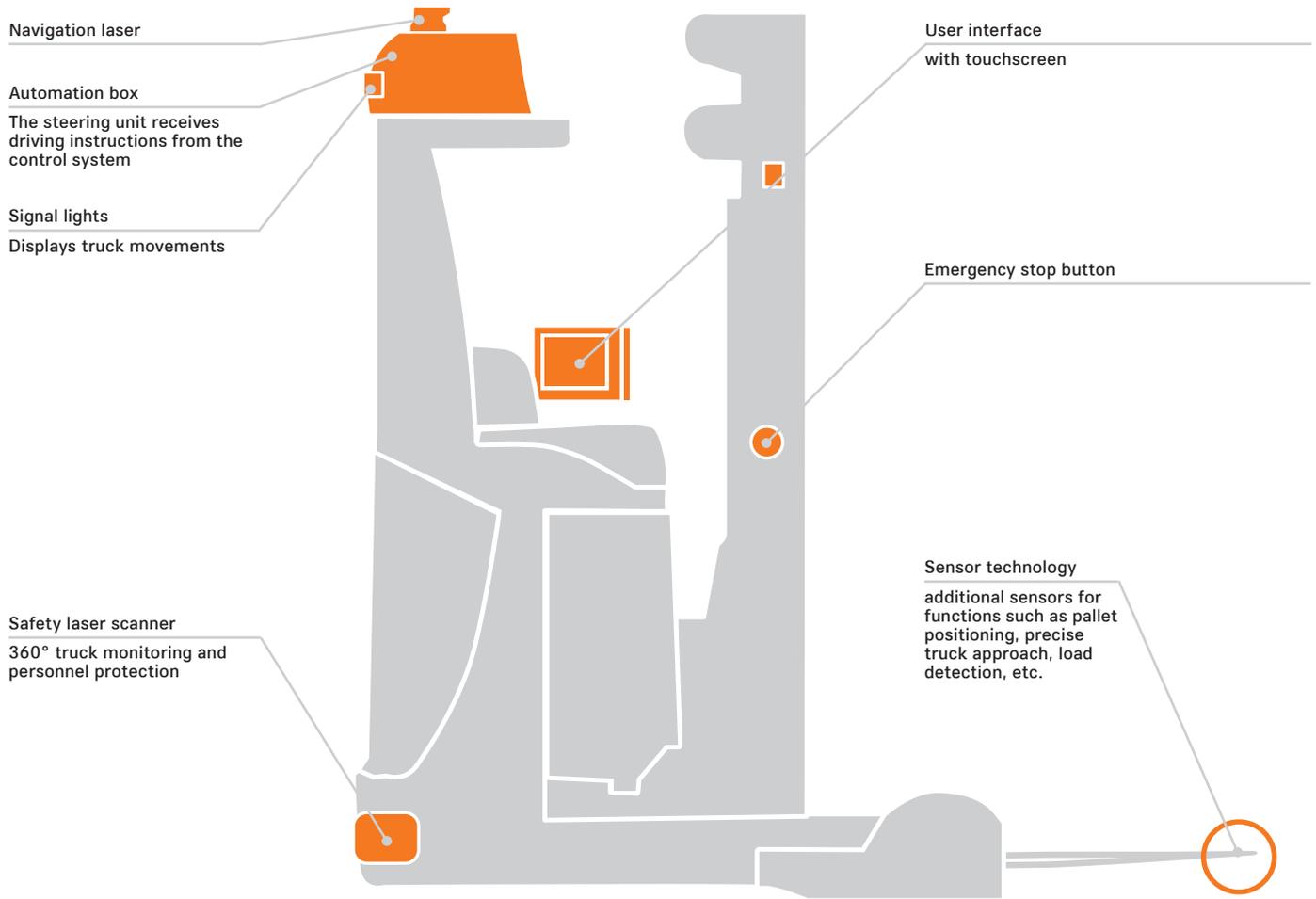


**FM-X 25 iGo**  
**Tray 325 (775 Ah), c = 625 mm**



## FM-X iGo Automated Reach Truck Precision made easy

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## STILL iGo - Automation Solutions

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We make automation smart. From flexible plug & play solutions (STILL iGo easy) to highly customised system solutions (STILL iGo systems), scalable STILL iGo covers the entire spectrum of automation. Precisely tailored to your needs.

### STILL iGo easy

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Our smart plug & play solution STILL iGo easy is the perfect choice for anyone who wants to automate individual logistic transport processes with small fleets. iGo easy is particularly easy and quick to implement thanks to its intuitive user interface and flexibility. And as your needs grow or your processes become more complex, you can always upgrade to iGo systems.

### STILL iGo systems

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Do you already have complex or interlinked logistics processes and want to automate them individually? Then iGo systems is the perfect solution for you. The highly customisable system enables vehicles to be controlled in perfectly synchronised interaction and integrated into comprehensive logistics processes - scalable from individual vehicles to entire fleets.

## FM-X iGo Automated Reach Truck Detailed Photos



Easy to customise, scale and integrate with existing systems and processes



Simple commissioning and operation thanks to the smart iGo easy plug-and-play solution



The automation box contains the steering unit, which receives and processes the driving instructions from the control system



A large touchscreen makes operating the truck intuitive and user-friendly



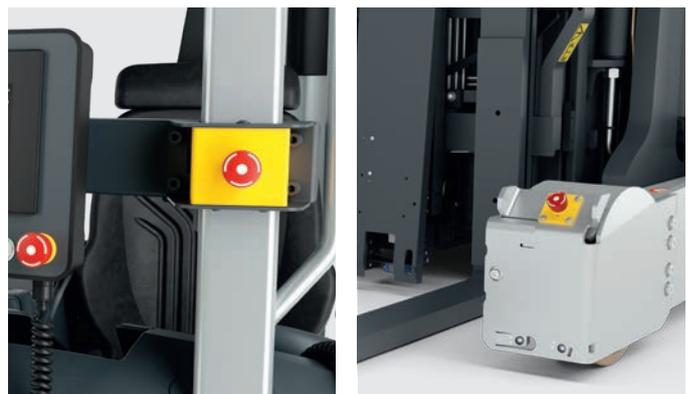
The navigation laser on the overhead guard ensures maximum precision



Maximum pedestrian safety thanks to the reliable 360° safety laser scanners on the truck



High visibility of the truck thanks to the optional STILL Warning Zone Light and STILL Safety Light



Five emergency switches bring the truck to an immediate stop – an emergency switch for the load arms is optionally available for added safety

## FM-X iGo Automated Reach Truck Precision made easy

Maximum flexibility and precision in load handling thanks to cantilever forks and innovative Pallet-Positioning-System

High level automation: the FM-X iGo has a storage height of up to 10 metres

Unbeatable manoeuvrability with less than 3 m working aisle width

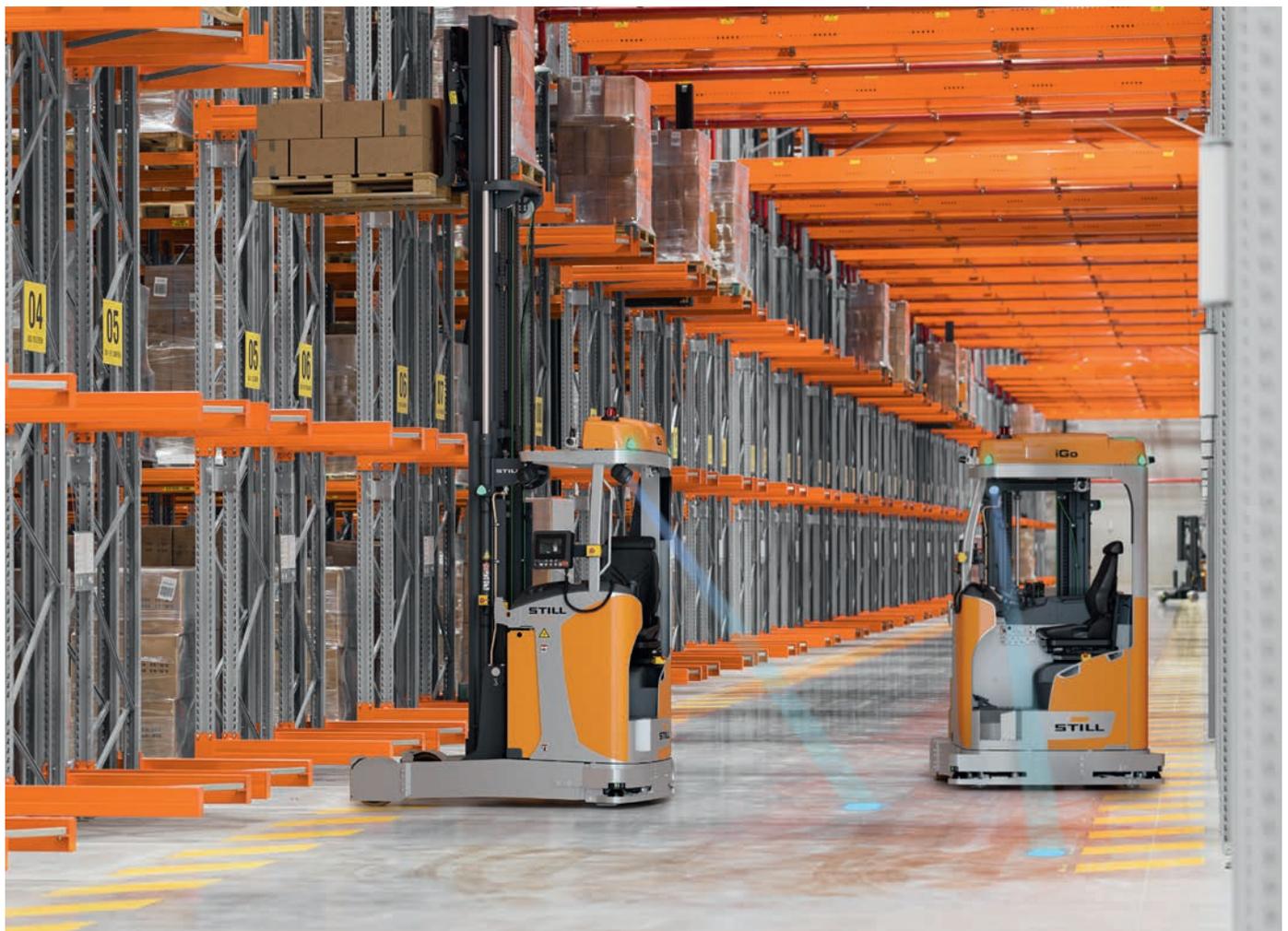
Simply intuitive: thanks to the smart iGo easy plug-and-play solution, commissioning and handling are simple and straightforward, as are customisation and scaling



## FM-X iGo Automated Reach Truck

The automated FM-X iGo reach truck takes efficiency, performance and flexibility to a new level. From wide-aisle warehouses and flow racking to conveyor technology and VNA transfer stations – the FM-X iGo covers the entire spectrum of automated processes with the utmost precision thanks to its innovative pallet positioning system (PPS). Two other impressive features are its compatibility with a wide range of load carriers and its power. The FM-X iGo effortlessly lifts up to 2,300 kg on the cantilever forks to storage heights of up to 10 metres. And the lean design allows for a working aisle width of less than 3 metres.

For maximum process safety and reliable pedestrian protection, the FM-X iGo is equipped with a multi-level safety system with state-of-the-art laser scanners and sensors that fulfils all the requirements of the ISO 3691-4 safety standard. Its performance is as sophisticated as its handling is straightforward due to the smart STILL iGo automation solution, such as plug-and-play commissioning with iGo easy. By the way: iGo easy permits both stand-alone operation and connection to a WMS. And as your automated fleet grows or you want to automate more processes, the scalable software grows with you. It's that simple.



### Simply easy

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- Straightforward integration into existing systems and processes with the scalable STILL iGo automation solution
- Can be used flexibly, even in narrow spaces, thanks to its compact design and narrow working aisle width of less than 3 metres
- Intuitive control and operation via a user-friendly touchscreen, which displays a clear overview of all relevant information

### Simply powerful

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- Optimum availability and cost efficiency thanks to innovative and low-maintenance lithium-ion battery
- Optimised use of space and high storage density thanks to a storage height of up to 10 metres
- Safe, precise and flexible storage of a wide variety of goods carriers with the smart Pallet-Positioning-System (PPS)

### Simply safe

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- Redundant safety system reliably ensures the highest level of safety in accordance with ISO standard 3691-4
- Safety and productivity combined with smart features: optimal protection for people, trucks and loads thanks to innovative 360° safety laser scanners that create a dynamic safety field around the truck
- Maximum protection: safety scanners between the mast and battery compartment reliably detect people in the danger zone and minimise the risk of injury when retracting the mast

### Simply flexible

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- Flexible route planning: different pick-up and drop-off points can be defined
- Versatile thanks to compatibility with numerous load carriers
- Always operational thanks to dual operating mode: switch to manual operation quickly and easily via the touchscreen if required

### Simply connected

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- Rapid availability and convenient servicing thanks to remote access to the truck
- Smart analysis and optimisation of availability and performance through connection to the STILL iGo insights analysis tool



## FM-X iGo Automated Reach Truck Detailed Photos



The FM-X iGo is equipped with a 2D Pallet-Positioning-System (PPS) for precise and efficient pallet handling on upper shelves



Flexible and versatile: many different load carriers and pick-and-drop stations are possible



Automatic charging system: If necessary, or if the vehicle is idle, the FM-X iGo automatically returns to the charging station



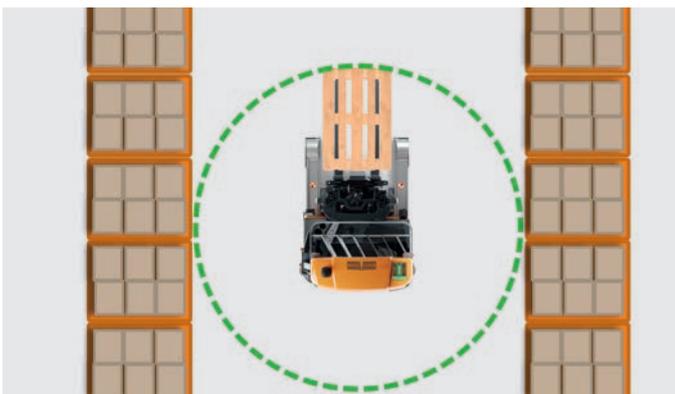
The FM-X iGo has a storage height of up to 10 metres



In the event of a fault, the FM-X iGo can be controlled with a manual controller



The FM-X iGo features dual operation and can be used manually for storage and retrieval



Unbeatable manoeuvrability with a working aisle width of less than 3 metres



Energy options: various lithium-ion batteries (standard) and lead-acid batteries are available for the FM-X iGo

## FM-X iGo Automated Reach Truck Precision made easy



### Our service offering for your automated systems

We do not compromise when it comes to the availability of your intralogistics systems. This does of course also apply to your automated systems. Whether hardware or software, maintenance or repair, we tailor our service offering according to your individual requirements and those of your system. This allows you to concentrate fully on your business without downtimes, waiting periods or spare parts bottlenecks. Our service technicians and our expert hotline staff are highly qualified, equally as dedicated and available 365 days a year to assist you.

### iGo insights: Automated process optimisation

Automated vehicles are used 24 hours a day, 365 days a year. The automated guided vehicles (AGVs) are controlled and monitored by an AGV control system, which generates valuable data that allows for a thorough analysis of your system and your processes from a higher-level perspective. With iGo insights, STILL offers a cloud-based evaluation tool that filters correlations from all the process information collected and recommends specific measures to optimise the availability and performance of your system.

### Equipment Variants

		FM-X 12 iGo	FM-X 17 iGo	FM-X 25 iGo
General	STILL iGo easy (plug-and-play solutions)	○	○	○
	STILL iGo systems (highly customised system solutions)	○	○	○
	STILL iGo insights (analysis tool for optimising use and performance)	○	○	○
	User interface with touchscreen	●	●	●
	Manual controller	○	○	○
	2D Pallet-Positioning-System (PPS) incl. side shifter for adjusting the fork position in complex applications	●	●	●
Safety	Load detection (detects stacked load carriers when picking up load)	○	○	○
	Safety laser scanner - 360° truck monitoring and pedestrian protection	●	●	●
	Emergency switches (5x)	●	●	●
	Emergency switch on the left/right load arms for extra safety in the load direction	○	○	○
	Additional sensor (ultrasonic) for enhanced pedestrian protection in front of the load arms	○	○	○
	Acoustic warning signals	●	●	●
	STILL EasyProtectPlus, driving direction (additional vertical collision protection, obstacles without ground contact)	○	○	○
	STILL EasyProtectPlus, lateral (additional vertical collision protection, obstacles without ground contact)	○	○	○
	STILL Safety Light (light spot ahead of the truck warns of an approaching vehicle)	○	○	○
	STILL Warning Zone Light, lateral (light strips that identify the typical danger zone)	○	○	○
Energy	Safety field 850 x 1250 mm (longitudinal transport of standard load carrier EPAL 1 and grid box)	○	○	○
	Safety field 1250 x 1250 mm (longitudinal & transverse transport of standard load carriers)	○	○	○
	Lead-acid battery 465-775 Ah	○	○	○
	Lithium-ion battery 13-35 kWh	○	○	○
	Charger	○	○	○
	Charging contact for automated charging	○	○	○
	Charging station for automated charging	○	○	○

● Standard ○ Option — Not available



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STILL is certified in the following areas: Quality management, occupational safety, environmental protection and energy management.

