

# AXV iGo Technical Data

## Automated High Lift Pallet Truck

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AXV 12 iGo

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# AXV iGo Automated High Lift Pallet Truck

## Compact design. Easily automated.

This specification sheet according to VDI guideline 2198, only provides the technical values for the standard truck. Different tyres, other masts, additional equipment, etc. may produce different figures.



Features	1.1	Manufacturer					STILL
	1.2	Manufacturer's type designation					AXV 12 iGo / Li-Ion
	1.2.1	Product line					1195-31
	1.3	Drive					Electric
	1.4	Operation					Automated
	1.5	Capacity/load		Q	kg		1200
	1.6	Load centre		c	mm		600
	1.8	Load distance		x	mm		665
	1.9	Wheel base		y	mm		1013
Weights	2.1	Service weight (incl. battery)			kg		850
	2.2	Axle load, laden	drive end/load end		kg		695/1355
	2.3	Axle load, unladen	drive end/load end		kg		670/180
Wheels/chassis	3.1	Tyres					Rubber, polyurethane/ polyurethane
	3.2	Tyre size	drive end	Ø x 1	mm		Ø 230 x 90
	3.3	Tyre size	load end	Ø x 1	mm		Ø 85 x 65
	3.4	Additional wheels (dimensions)		Ø x 1	mm		Ø 140 x 54
	3.5	Number of wheels (x = driven)	drive end/load end		mm		1x + 1/4
	3.6	Tread width	drive end	b <sub>10</sub>	mm		426.5
	3.7	Tread width	load end	b <sub>11</sub>	mm		380
Basic dimensions	4.2	Height of mast	mast lowered	h <sub>1</sub>	mm		1415
	4.3	Free lift		h <sub>2</sub>	mm		264
	4.4	Lift		h <sub>3</sub>	mm		1844
	4.5	Height of mast	mast extended	h <sub>4</sub>	mm		2364
	4.15	Height when lowered		h <sub>13</sub>	mm		86
	4.19	Total length		l <sub>1</sub>	mm		1785
	4.20	Length including fork backs		l <sub>2</sub>	mm		535
	4.21	Total width		b <sub>1</sub>	mm		887
	4.22	Fork dimensions DIN ISO 2331		s/e/l	mm		55/182/1250
	4.24	Fork carriage width		b <sub>3</sub>	mm		780
	4.25	Overall fork width	min./max.	b <sub>5</sub>	mm		560
	4.26	Distance between wheel arms/loading surfaces		b <sub>4</sub>	mm		196
	4.31	Ground clearance, laden, below mast		m <sub>1</sub>	mm		30
	4.32	Ground clearance, centre of wheel base		m <sub>2</sub>	mm		17
	4.34.1	Aisle width for pallets 1000 x 1200 crossways		A <sub>st</sub>	mm		2750 <sup>2</sup>
4.34.2	Aisle width for pallets 800 x 1200 lengthways		A <sub>st</sub>	mm		2480 <sup>2</sup>	
4.35	Turning radius in manual operation		W <sub>a</sub>	mm		1261 <sup>1</sup>	
Performance data	5.1	Driving speed laden/unladen max.	laden/unladen		km/h m/s		4/4 <sup>1</sup> 6.0/7.2 <sup>2</sup> 1.1/1.1 <sup>1</sup> 1.7/2 <sup>2</sup>
	5.2	Lifting speed laden/unladen max.	laden/unladen		m/s		0.19/0.30
	5.3	Lowering speed laden/unladen max.	laden/unladen		m/s		0.31/0.24
	5.10	Service brake					Electromagnetic
Electric engine	6.1	Drive motor, rating S2 = 60 min			kW		1.5
	6.2	Lifting motor, output S13 = 15%			kW		3.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no					1P8S 206
	6.4	Battery voltage			V		24
	6.4.1	Rated capacity K <sub>s</sub>			Ah		206
	6.5	Battery weight (depending on manufacturer ±5%)			kg		66
6.6	Energy consumption as per DIN EN 16796			kWh/h		0.57	
Misc.	8.1	Type of drive unit					LAC
	8.4	Sound pressure level L <sub>pAZ</sub> (operator's position)			dB(A)		<66

<sup>1</sup> Applies to manual operation

<sup>2</sup> Applies to automated operation

## Mast Table

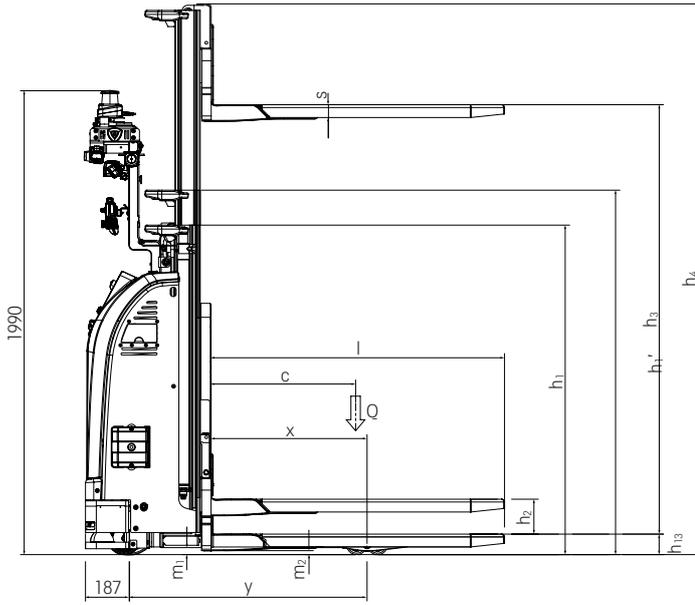
		Mast Types		AXV iGo	
AXV iGo	Height	h <sub>1</sub>	mm		1415
	Overall height with free lift applied h <sup>2</sup> (h <sup>1</sup> + 150 mm)	h <sub>1</sub>	mm		1565
	Free lift while driving	h <sub>2</sub>	mm		264
	Free lift while storing	h <sub>2</sub>	mm		150
	Lift	h <sub>3</sub>	mm		1844
	Height, mast raised	h <sub>4</sub>	mm		2364
	Storage height	h	mm		1780

<sup>1</sup> With increased mast height h<sub>1</sub><sup>1</sup>, free lift for AGV safety scanner while driving

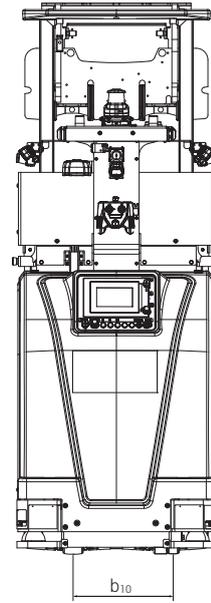
<sup>2</sup> Free lift for storage and retrieval of load carriers

<sup>3</sup> Under consideration of free lift and load detection: h = h<sub>3</sub> + h<sub>13</sub> - h<sub>2</sub><sup>1</sup>

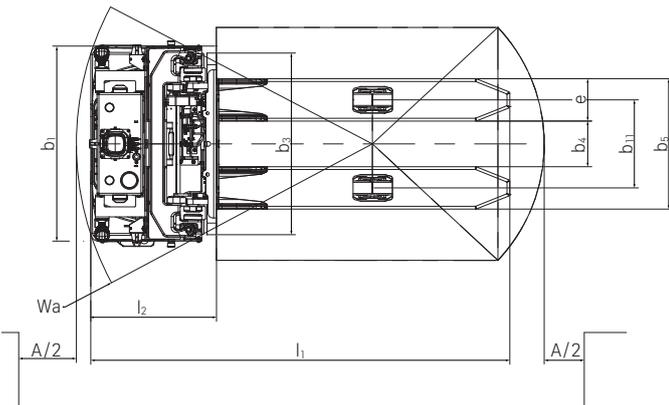
# AXV iGo Automated High Lift Pallet Truck Technical Drawings



AXV iGo side view



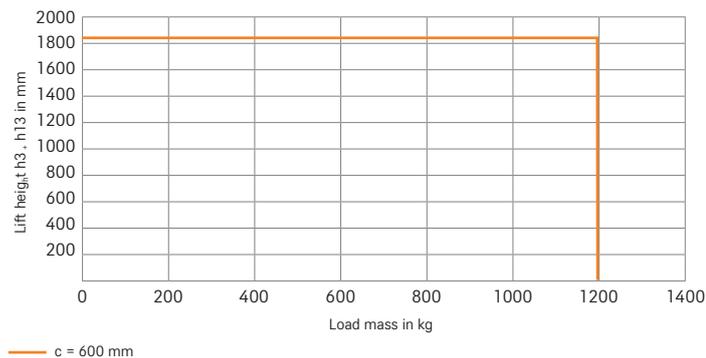
AXV iGo rear view



AXV iGo top view

## Basic Load Capacities

AXV iGo  
Automated High Lift Pallet Truck



# AXV iGo Automated High Lift Pallet Truck

## Detailed Photos



Dynamic safety fields strike the perfect balance between driving speed and safety, adapting route and corner radius in real time



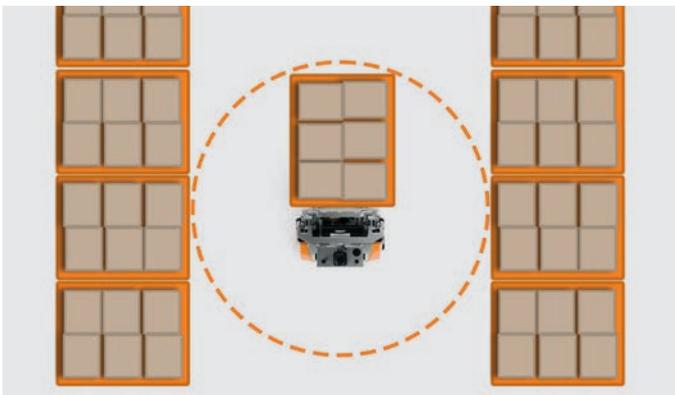
The optional STILL Warning Zone Light and STILL Safety Light make the truck easier to see and improve safety



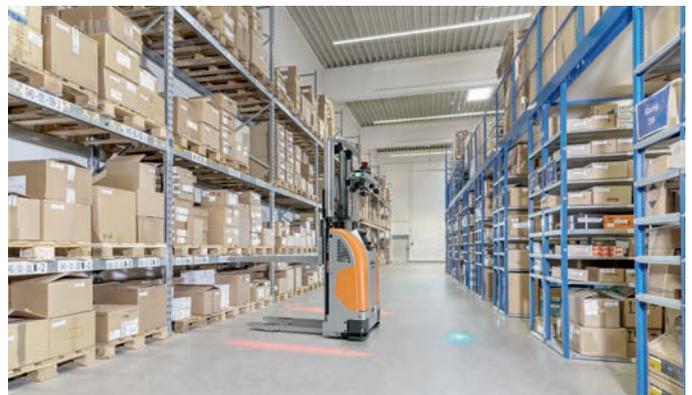
The best possible safety for pedestrians thanks to reliable 360-degree safety laser scanner on the truck



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



No aisle too narrow: with a working aisle width ( $A_{st}$ ) of just 2480 mm, the AXV iGo can now be used in applications previously only suitable for manual trucks



Load capacity 1200 kg, storage height 1780 mm – the AXV iGo is the ideal entry-level product for production supply and disposal as well as incoming and outgoing goods



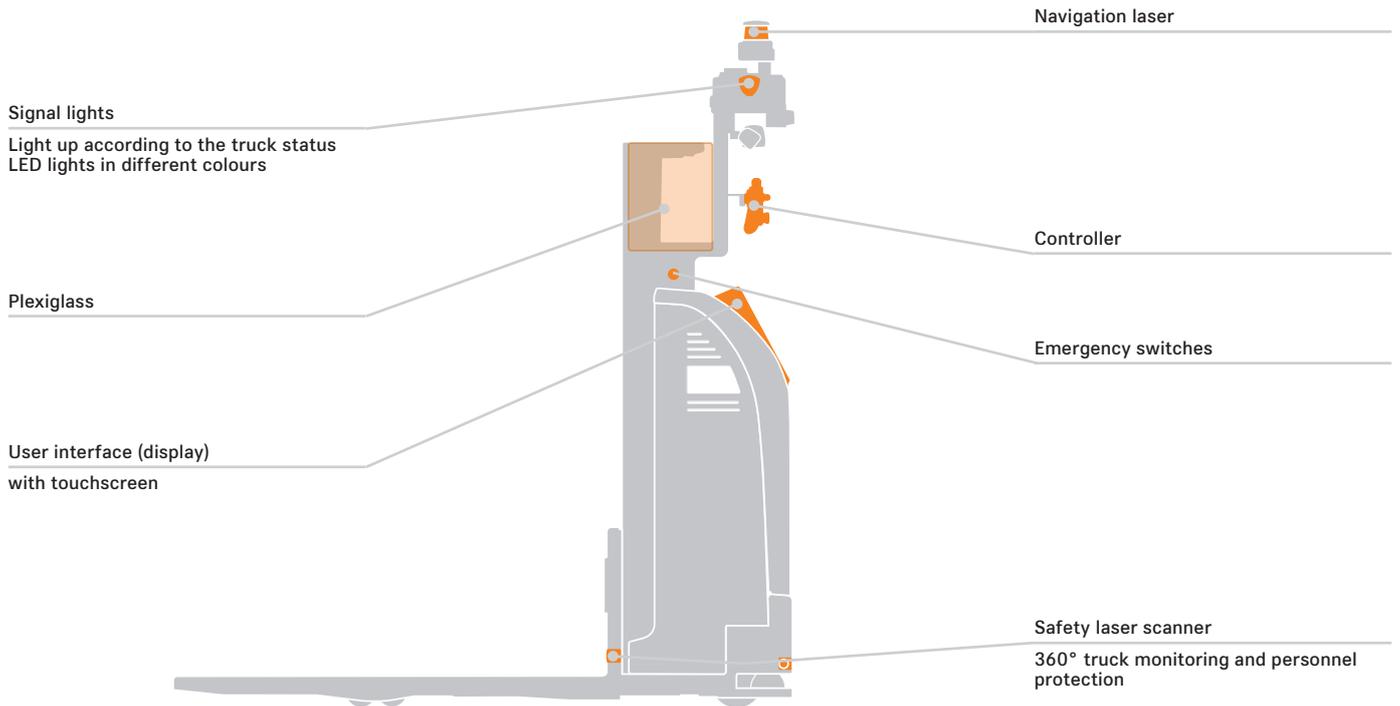
Its innovative navigation laser makes the AXV iGo precise, safe and quick



If required, the AXV iGo can also be controlled with the controller

## AXV iGo Automated High Lift Pallet Truck Compact design. Easily automated.

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## STILL iGo - Automation Solutions

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We make automation smart. From flexible plug-and-play solutions (STILL iGo easy) to highly customised system solutions (STILL iGo systems), STILL iGo covers the full range of automation in a scalable manner, tailored precisely to your needs.

### iGo easy

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Our smart plug-and-play solution STILL iGo easy is the perfect option for anyone who wants to automate individual logistics transport processes with small fleets. iGo easy is quick and easy to implement thanks to its intuitive user interface and flexibility. So, if demand increases or your processes become more complex, you can simply switch to our iGo systems solution at any time.

### iGo systems

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Do you already have extensive or interlinked logistics processes that you would now like to automate? Then iGo systems is the perfect solution for you. The system can be customised to your needs, and enables trucks to be controlled in perfect, synchronised harmony and integrated into comprehensive logistics processes. Plus, it is your choice whether this covers individual trucks or even entire fleets.

## AXV iGo Automated High Lift Pallet Truck

Compact design. Easily automated.

Making the transition easier: the AXV iGo combined with iGo easy makes it easier for you to get started with process automation.

Powerful - yet economical: when it comes to cost efficiency, there is no beating the AXV iGo

Our most compact high lift pallet truck: the AXV iGo is the narrowest automated high lift pallet truck in the STILL family and can even be used in areas with a working aisle width of just 2480 mm

Extremely intuitive: thanks to the smart plug-and-play solution iGo easy, commissioning and handling are as easy as making adjustments and scaling up the system



No other will be easier. The STILL AXV iGo is your entry ticket to the world of process automation. Why? Because that is exactly what it was designed for. The automated high lift pallet truck is so compact that it can handle even the tightest of spaces, so easy to use that you can operate it even with minimal automation experience and, thanks to its multi-level safety system, so safe that your staff, trucks and goods can rely on the best protection, even in mixed operation with people and manual equipment. The AXV iGo is your reliable partner for simple horizontal transport, such as in production supply and disposal or incoming and outgoing goods, where it can effortlessly

store 1200 kg up to a height of 1780 mm. Selecting and purchasing the right truck for you is child's play thanks to the pre-configured best-fit packages. What's more, implementation and operation are also intuitive and straightforward with the help of the smart STILL iGo automation solutions, such as plug-and-play commissioning with iGo easy. It is worth noting, too, that iGo easy permits both stand-alone operation and connection to a WMS. And if your automated fleet grows or you want to automate more processes, the scalable software simply expands with you. It's that simple.

## AXV iGo Automated High Lift Pallet Truck

### The 'Simply Efficient' factors: Performance attributes as a measure of economic efficiency



#### Simply easy

- Quick and precise navigation and reliable handling of goods thanks to the navigation laser
- Straightforward implementation and integration into existing processes with the smart plug-and-play solution STILL iGo easy
- Space-saving and agile even in the narrowest aisles, the compact design means it can be used with a working aisle width of just 2480 mm
- Intuitive operation and control via the large touchscreen, which displays a clear overview of all relevant information



#### Simply powerful

- Powerful and efficient: the AXV iGo lifts up to 1200 kg with its sturdy mast
- Exceptional handling performance even on longer transport routes thanks to a maximum speed of 7.2 km/h
- Unrivalled cost efficiency and availability paired with the lowest maintenance needs thanks to innovative lithium-ion batteries



#### Simply safe

- A redundant safety system that meets all the requirements of the ISO 3691-4 safety standard ensures the highest level of safety for users
- Reliable personal safety with no loss of performance: the 360-degree safety laser scanners form a safety field around the truck, offering people, goods and truck the best possible protection
- Additional vertical collision protection for obstacles without ground contact thanks to the innovative EasyProtectPlus curtain laser

- Safe load handling thanks to smart load carrier detection
- Maximum occupational safety, even in mixed operation: the AXV iGo has numerous visual and acoustic safety and warning features as well as easily accessible emergency switches



#### Simply flexible

- Different pick-up and drop-off points can be defined
- Versatility through compatibility with many load carriers
- Easy and flexible to use due to its compact dimensions and small turning circle
- Ready for use at all times thanks to the built-in lithium-ion battery with quick charging and interim charging options



#### Simply connected

- High availability and straightforward truck handling thanks to remote access
- Smart analysis and optimisation of use and performance due to the connection to the STILL iGo insights analysis tool
- Different iGo trucks can be combined with each other and with manual transport systems as well as with stationary automation systems
- Optimisation of the goods flow thanks to straightforward connection to existing material flow management systems via MMS provision



### 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

	AXV 12 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)	○
	Touchscreen	●
	Controller	●
	Load detection (pallet cages are detected by pallet sensors positioned on the sides)	○
	Load detection (stacked load carriers are detected during load lifting)	○
Safety	Navigation laser, raised to 2424 mm (for mixed AGV fleets)	○
	Safety laser scanner – 360° truck monitoring and personal protection	●
	Emergency switches (2x)	●
	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, driving direction (light strips that identify the typical danger zone)	○
	STILL Warning Zone Light, lateral (light strips that identify the typical danger zone)	○
	Safety field 1 (standard load carrier EPAL1 compact)	●
Energy	Safety field 2 (standard load carrier pallet longitudinal transport)	○
	Safety field 3 (standard load carrier pallet transverse transport)	○
	Lithium-ion battery (4.95 kWh)	●
	Chargers (120 A or 225 A)	○
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.

