AXL iGo Technical Data
Autonomous Low Lift Pallet Truck

AXL 15 iGo



Li-Ion INSIDE

iGo

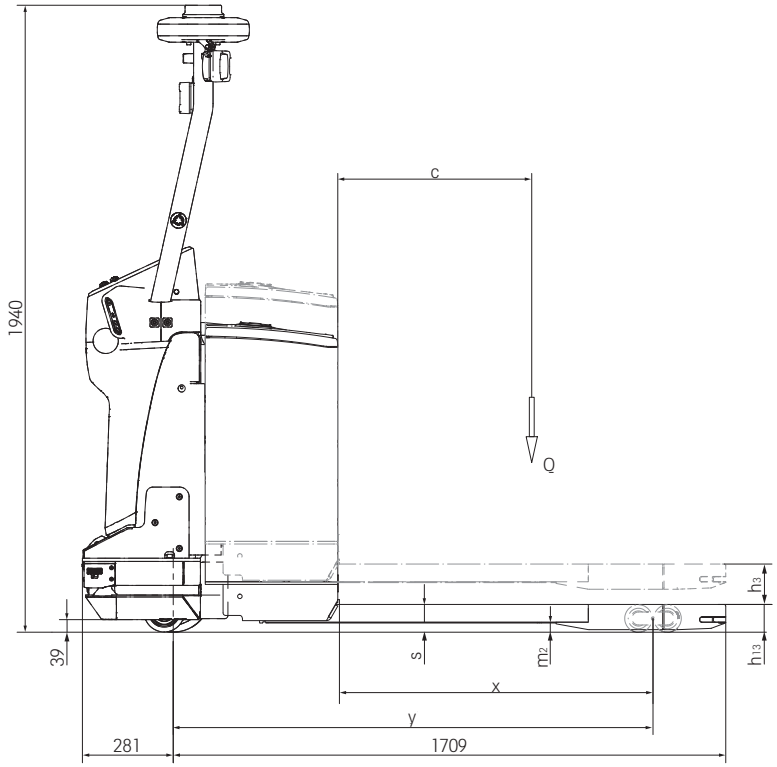
AXL iGo Autonomous Low Lift Pallet Truck
Go hands free!

This specification sheet according to VDI guideline 2198, provides the technical values for the standard equipment only. Alternative tyres, mast types, ancillary equipment, etc. could result in different values.

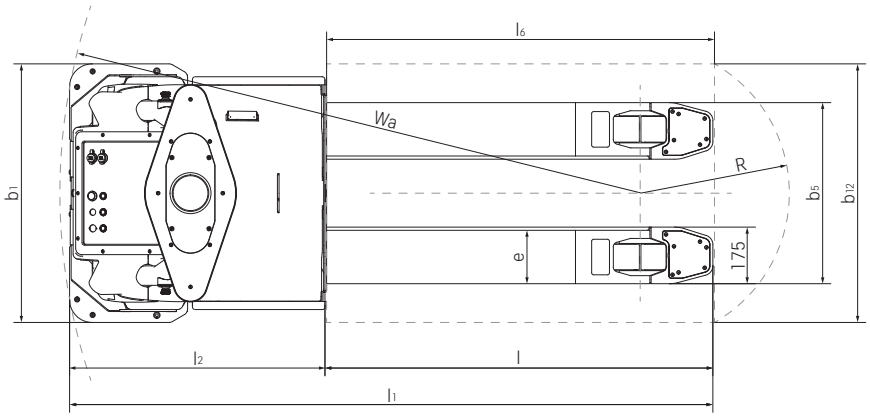


Features	1.1	Manufacturer				STILL
	1.2	Manufacturer's type designation				**AXL 15 iGo**
	1.2a	Battery				1153
	1.3	Drive				Battery
	1.4	Operation				Autonomous
	1.5	Capacity/load		Q	(t)	1.5
	1.6	Load centre		c	mm	600
	1.8	Load distance		x	mm	895 [1)]
	1.9	Wheel base		y	mm	1.408 [1)]
Weights	2.1	Service weight (incl. battery)			kg	865
	2.2	Axle load, laden	drive end/load end		kg	1225/1440
	2.3	Axle load, unladen	drive end/load end		kg	697/168
Wheels/chassis	3.1	Tyres				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_{10}	mm	502 [1)]
	3.7	Tread width	load end	b_{11}	mm	380 [1)]
Basic dimensions	4.4	Lift	mast lowered	h_3	mm	120 [1)]
	4.15	Fork height, lowered		h_{13}	mm	86
	4.19	Total length		l_1	mm	1.990 [1)]
	4.20	Length including fork backs	mast extended	l_2	mm	790 [1)]
	4.21	Total width		b_1, b_2	mm	800 [1)]
	4.22	Fork dimensions DIN ISO 2331		s/e/l	mm	57/165/1.200
	4.25	Overall fork width		b_5	mm	560 [1)]
	4.26	Distance between wheel arms/loading surfaces		b_4	mm	210 [1)]
	4.32	Ground clearance, centre of wheel base		m_2	mm	28.5
Performance data	5.1	Driving speed	laden/unladen		km/h	7.2
	5.2	Lifting speed	laden/unladen		m/s	0.05/0.06
	5.3	Lowering speed	laden/unladen		m/s	0.1/0.08
	5.10	Service brake				Electromagnetic
Electric engine	6.1	Drive motor, rating S2 = 60 min			kW	3
	6.2	Lift motor, output S13 = 15%			kW	2.2
	6.3	Battery according to DIN 43531/35/36 A, B, C, no				Li-Ion: KBS H12
	6.4	Battery voltage/nominal capacity K_5		(V)/(Ah) or kWh		24/225
	6.5	Battery weight ±5 %			kg	175
Misc.	8.1	Type of drive unit				AC control
	10.7	Sound pressure level at driver's seat			dB(A)	62

[1] (± 5 mm)



Side view AXL iGO

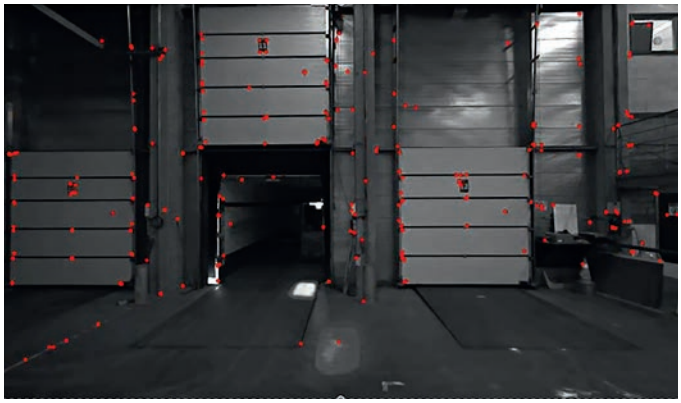


Top view AXL iGo

VDA 5050 Automation Interface

Automated guided vehicle systems (AGVS) are an essential part of modern intralogistics. The standardised VDA 5050 communication interface allows fleets from different manufacturers to be controlled in a uniform way. This interface supports the standardisation of order and traffic management for such fleets via a single user interface. To offer you maximum flexibility in your choice of software and hardware, we consistently adapt our control and vehicle-integrated software systems to the VDA 5050 interface. This enables us to integrate products from other suppliers into our solutions, providing you with series-produced AGVs that can be incorporated into the control systems of other manufacturers via VDA 5050. The result is scalable, future-proof automation solutions that are tailored to your specific needs.

AXL iGo Autonomous Low Lift Pallet Truck
Detailed Photos



3D Visual SLAM technology enables fast set-up and smooth navigation, with no need to adjust the infrastructure. The LiDAR scanner-based navigation inside the trailer provides high accuracy and flexibility



Multiple cameras ensure efficient and safe obstacle avoidance in busy environments with mixed traffic of pedestrians, manual trucks and AGVs



Cameras capture the surroundings and identify distinctive features such as corners, edges and entire objects



Holistic safety concept including LiDAR safety scanners, visual and acoustic warning signals for worry-free operation

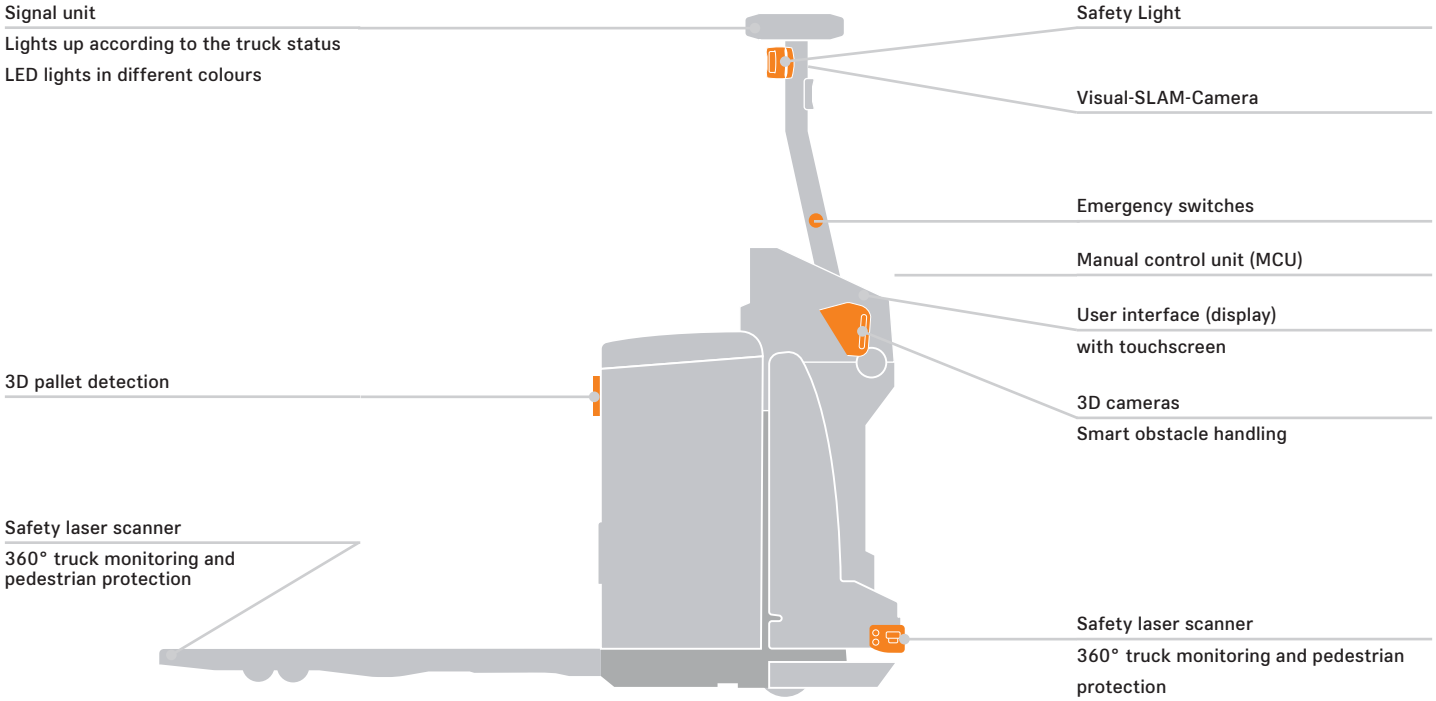


The pallet detection enables the easy handling of off-centre pallets and outliers



Easy fleet configuration and scaling via fast (browser-based) fleet manager integration

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Go hands free!



STILL iGo – Automation Solutions

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

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

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.

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Go hands free!

The AXL iGo can load up to 30 pallets in around 35 minutes

State-of-the-art sensors and algorithms ensure precise and safe handling

End-to-end solution – seamless integration into existing warehouse management systems (WMS) and storage processes, including inbound and outbound handling

Easy fleet configuration and scaling via fast (browser-based) fleet manager integration



The autonomous low lift pallet truck AXL iGo navigates with maximum precision in both the pre-loading zone and the truck trailer, eliminating the need for stationary safety solutions or other external infrastructure at the loading dock. The solution can be seamlessly integrated into existing WMS or storage and retrieval systems - thus harmonising inbound and outbound cycles, increasing process reliability, and enabling the loading of up to 30 pallets (with two AGVs in double play) in approximately 35 minutes.
A real game changer for handling large quantities of standardised goods weighing up to 1,500 kg – from fulfilment, food, and retail to industry. A groundbreaking innovation from STILL. An automation solution that makes a previously blind spot in intralogistics more efficient and safer.

AXL iGo Autonomous Low Lift Pallet Truck
The 'Simply Efficient' factors: Performance attributes as a measure of economic efficiency

Simply easy

- Straightforward implementation and integration into existing processes without additional infrastructure
- Efficient control station operation for multiple vehicles or docks
- Simple configuration of routes and orders
- Transparent overview of vehicle status, orders, and system

Simply powerful

- High handling capacity of up to 30 pallets in approximately 35 minutes with two AGVs
- Precise navigation and stable driving performance, even under intensive use
- Efficient pallet transport with loads of up to 1,500 kg
- High handling capacity thanks to a maximum speed of 7.2 km/h
- High-performance lithium-ion battery enables operating times of over 8 hours

Simply safe

- Multi-level 360° safety concept with multiple LiDAR scanners and cameras
- Intelligent object detection and, if necessary, automatic obstacle avoidance
- Dynamic safety fields adapt to speed and direction of travel
- Integrated 'cliff detection' reliably prevents falls at ramps and loading bridges
- Optimal workplace safety even in mixed operations: the AXL iGo features numerous visual and acoustic safety and warning functions, as well as easily accessible emergency stop buttons

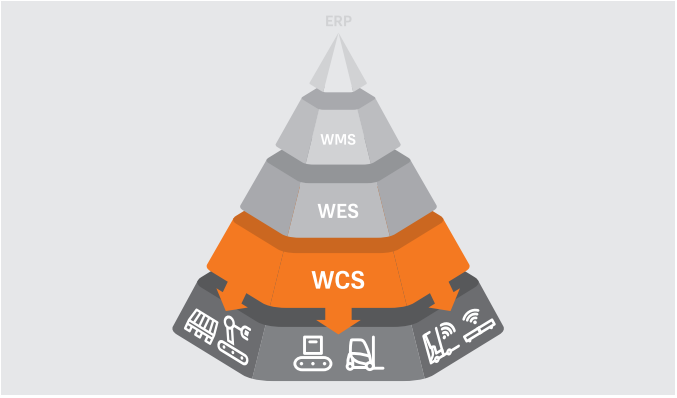
Simply flexible

- Compact design enables use even in confined spaces
- Intelligent navigation with automatic obstacle avoidance
- Adaptable layouts and routes to accommodate changing processes
- Scalable solution: easy fleet configuration and scaling through rapid (web-based) integration into fleet management

Simply connected

- Seamless integration: easy integration into existing WMS (warehouse management systems) and storage processes, including inbound and outbound handling
- Central control, monitoring, and diagnostics via the Fleet and fleet and automation management system
- API interface for connection to warehouse management and material flow systems
- Transparent process data enables analysis, optimisation, and remote access
- Future-proof and scalable thanks to the standardised VDA 5050 communication interface





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.

STILL WXS – Control and coordination

iGo flow combines the functionalities of WMS, WES and WCS into a single centralised system for seamless stock management, intelligent order control and the direct integration of all plant components. The software coordinates automated guided vehicles, stationary equipment and hybrid systems – regardless of manufacturer and in real time. Thanks to its modular architecture, it can be flexibly scaled and integrated. Intelligent process logic ensures transparency, efficient workflows and reduced complexity, even without an additional WMS. Intuitive dashboards provide a constant overview of material flows, order statuses and system conditions – for a future-proof, highly networked intralogistics environment.

Equipment Variants

		AXL 15 iGo
General	STILL iGo easy (plug-and-play solutions)	○
	STILL iGo systems (highly customised system solutions)	○
	Fleet controller (multi-agent system, MAS)	●
	WCS (warehouse control system) interface	○
	User interface with touchscreen	●
	Manual control unit (MCU)	○
	3D pallet detection for off-centre pallets (up to 15° and 200 mm)	●
	3D cameras for intelligent object recognition	●
	Visual SLAM camera for quick set-up and seamless navigation	●
Safety	Safety laser scanner – 360° vehicle monitoring and pedestrian protection	●
	Emergency switches (2x)	●
	Acoustic warning signals	●
	STILL Safety Light (light spot ahead of the truck warns of an approaching vehicle)	●
	Dynamic safety zone (in the trailer, during pallet loading and pallet transport)	●
Energy	Lithium-ion battery (12 kWh, 552 Ah)	●
	Charger (225 A)	○
	Charging station for automated charging	○

● Standard ○ Option

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

AXL 15 iGo systems EN 10/26 Subject to technical changes.