

Automatic, reliable and safe
Optimised transport routes
Utilisation of existing routes
Short payback period
Flexibility thanks to
adjustable forks



EKS 215a

Automated Guided Vehicle (AGV) Medium/High Level Order Picker (1,500 kg)

The EKS 215a is an automated guided vehicle system based on our vertical order pickers. It thus combines tried-and-tested mechanical engineering with innovative automation, including accurate navigation technology and safety components. This ensures maximum levels of reliability and safety.

The EKS 215a can be used in mixed operations mode with manual trucks and pedestrians. Whether to be integrated into existing factory structures or a new build – the EKS 215a is the perfect choice for increasing the efficiency of your transport processes. The adjustable forks mean that the EKS 215a is also ideally equipped for the transport of special load carriers and closed pallets.

The Jungheinrich AGV is navigated by means of laser navigation. No floor work is required. For the laser navigation,

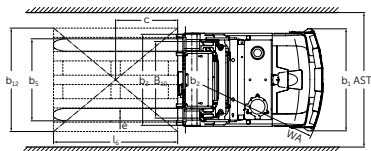
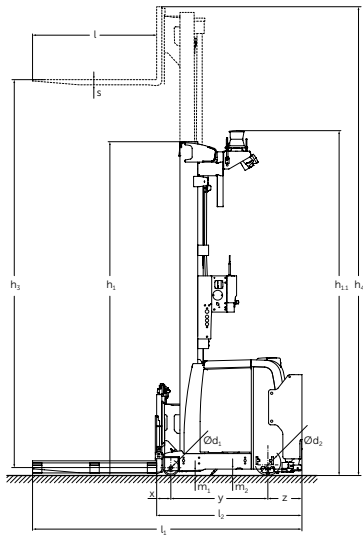
reflectors are attached to suitable objects along the travel route such as racking, columns and walls or natural landmarks.

The AGV can easily be integrated into the existing IT and software landscape. Our award-winning Jungheinrich Logistics Interface facilitates a smooth connection to any host system, such as the Jungheinrich WMS or other available WMS/ERP systems. However, the AGV can also be used as a stand-alone system, i.e. as an autonomous system without a host connection.

The modular system structure makes it possible to represent individual customer processes as well as reacting flexibly and quickly to process changes. This creates a solid basis for the use of the AGV system according to your specific requirements.



EKS 215a



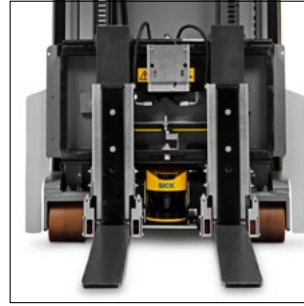
Standard mast types EKS 215a				
	Lift height h3 (mm)	Lowered height incl. scanner (mm)	Lowered height h1 (mm)	Extended height h4 (mm)
Duplex ZT	3500	2585	2475	4280
	4000	2835	2725	4780
	5000	3335	3225	5780
	6000	3835	3725	6780

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich
	1.2	Model		EKS 215a
	1.3	Drive		Electric
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		AGV
	1.5	Load capacity/rated load	Q t	1.5
	1.6	Load centre distance	c mm	600
	1.8	Load distance	x mm	150
	1.9	Wheelbase	y mm	938
	1.10	Centre of drive wheel / counterweight	z mm	330
	Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg
2.2		Axle loading, laden front/rear	kg	4,290 / 490
2.3		Axle loading, unladen front/rear	kg	1,480 / 1,800
Wheels / frame	3.1	Tyres		Vulkollan
	3.2	Tyre size, front	mm	Ø 250 x 80
	3.3	Tyre size, rear	mm	Ø 150 x 135
	3.5	Wheels, number front/rear (x = driven wheels)		2 / 1x
	3.6	Tread width, front	b ₁₀ mm	740
	Basic dimensions	4.2	Mast height (lowered)	h ₁ mm
4.4		Lift	h ₃ mm	5,000
4.5		Extended mast height	h ₄ mm	5,780
4.19.2		Total length (without load)	mm	2,605
4.20		Length to face of forks	l ₂ mm	1,405
4.21		Overall width	b ₁ /b ₂ mm	985 / 900
4.22		Fork dimensions	s/e/l mm	50 / 120 / 1,200
4.24		Fork carriage width	b ₃ mm	880
4.25		Width across forks	b ₅ mm	810
4.31		Floor clearance with load under mast	m ₁ mm	40
4.32	Ground clearance, centre of wheelbase	m ₂ mm	60	
Performance data	5.1	Travel speed, laden/unladen	km/h	7 / 9 ¹⁾
	5.2	Lift speed, laden/unladen	m/s	0.29 / 0.31
	5.3	Lowering speed, laden/unladen	m/s	0.34 / 0.31
	5.10	Service brake		Reverse current / regenerative
	5.11	Parking brake		Electric spring loaded
Electrics	6.1	Drive motor, output S2 60 min.	kW	3.0
	6.2	Lift motor, output at S3 15%	kW	9.5
	6.3	Battery as per DIN 43531/35/36 A, B, C, no		3 PzS 465
	6.4	Battery voltage/nominal capacity K5	V/Ah	48 / 465
	6.5	Battery weight	kg	740
Misc.	8.1	Type of drive control		AC Control
	8.4	Sound pressure level at operator's ear as per EN 12053	dB (A)	62
	8.6	Steering		electric

¹⁾ 5.0 / 6.0 in load direction

Benefit from the advantages



Cross-series benefits

The basis of the EKS 215a is the electric vertical order picker, a tried-and-tested standard truck combined with appropriate safety technology as well as automation and navigation components. In addition to reliability and efficiency, the EKS 215a also possesses other advantages of the basic truck:

- 48 V three-phase technology for long periods of use without the need to charge the battery.
- Active energy and battery management.
- Energy recovery during lowering and braking.
- Wear-free inversion brake.
- TÜV-certified control system (CAN bus).

Safety system

The EKS 215a is equipped as standard with a personal protection scanner in the drive and load direction. In line with the speed of the truck, these sensors scan the travel route in front of the AGV for obstacles. Should an obstacle be located in the path of the truck, the AGV will reliably come to a halt in front of it. In addition, the sensor also scans ahead for obstacles when cornering. The standard safety system is completed with side sensors – for safeguarding the sides of

the truck – as well as emergency disconnects on the truck.

Easy integration into existing systems

The AGV can easily be integrated into your existing IT and network landscape. Use of the existing WLAN structure is preferable for the communication of the EKS 215a. If an existing host system, such as the Jungheinrich WMS or another WMS/ERP system, is to be used, the AGV can be connected to this system via the Logistics Interface.

Everything at a glance – with the AGV control panel

The graphical visualisation on the AGV control panel, displays all the information relating to the AGV in use:

- Quick overview of the status of the AGV system.
- Prioritised orders can be entered and processed in the corresponding order.
- Depending on the project-specific requirements, individual customer functions can be specially implemented and activated for the respective system.

Precise navigation

High degree of precision allows for pinpoint accuracy in the positioning of

trucks and loads at defined stations.

If necessary, different navigation types can be used as hybrid navigation for the EKS 215a, as with the other AGV models. These are designed and specified according to project and environment.

Numerous additional system enhancements

By using adjustable forks, the EKS 215a can also pick up closed load carriers and transverse pallets, as well as operate at stations which cannot be driven under. Additional optional equipment components are available for the EKS 215a on a project-specific basis:

- Floor spot.
- Barcode scanner.
- Obstacle detection scanner.
- Sensors for detecting faulty pallets.

Lithium-ion technology

- High degree of availability thanks to extremely short charging times.
- No battery exchange required.
- Cost savings due to longer service life and low maintenance compared with lead-acid batteries.
- No charging rooms and ventilation required as there is no build up of gas.
- Longer service life with 5-year Jungheinrich guarantee.

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The German production facilities in Norderstedt, Moosburg and Landsberg are certified. **ISO 9001**
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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