Automatic, reliable and safe

Optimised transport routes

Utilisation of existing routes

Short payback period

Compact design

ERC 215a

Automated Guided Vehicle System (AGV) Pedestrian Pallet Truck (1,500/1,300 kg)

The ERC 215a is an Automated Guided Vehicle based on our standard series truck. It combines advanced engineering with precision navigation technology and safety components. This ensures a high level of reliability and safety.

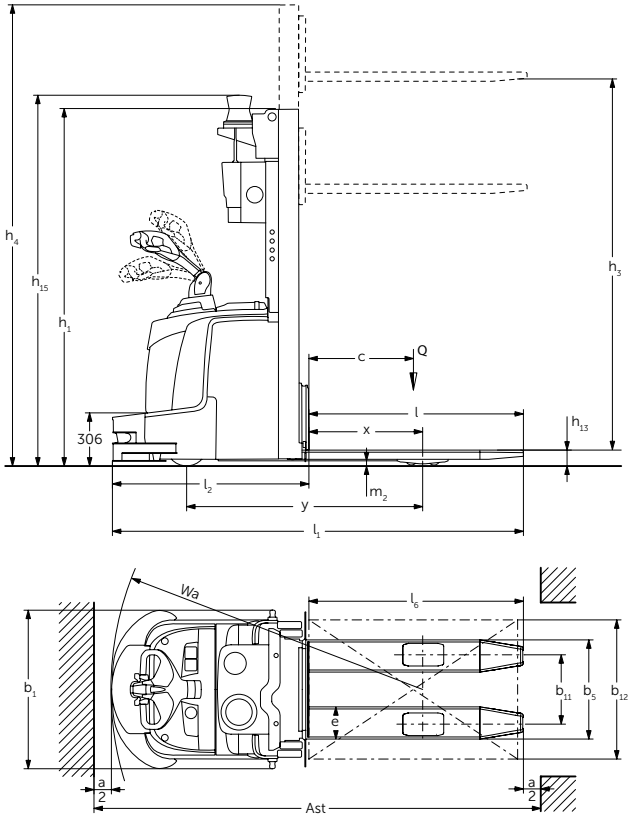
The ERC 215a can be used in mixed operations mode with manual trucks and pedestrians. Whether to be integrated into existing factory structures or a new build – the ERC 215a is the perfect choice for increasing the efficiency of your transport processes. The compact design as well as the high lift height of the ERC 215a expand its broad range of applications.

Navigation of our automated guided vehicle systems (AGV) is via laser navigation, so no floor work is required. To do this, reflectors are attached to suitable objects along the travel route such as racking, columns and walls or natural landmarks are used. The AGV system can easily be integrated into the existing IT and software landscape. Our award-winning Jungheinrich Logistics Interface facilitates a smooth connection with host system, such as the Jungheinrich WMS or other available WMS/ERP systems.

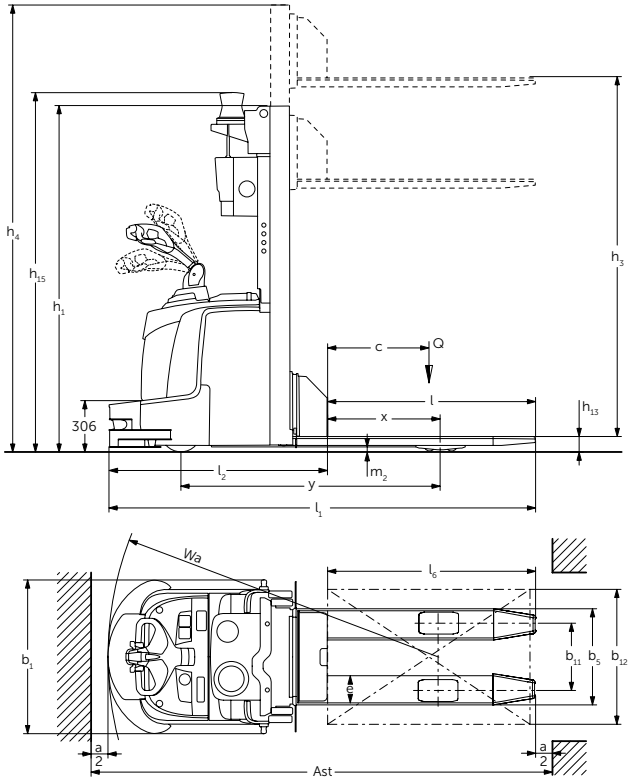
However, the AGV system in the form of the ERC 215a can also be used as a stand-alone system, i.e. as an autonomous system without a host connection.

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.

ERC 215a



ERC215a



ERC 215a with personal protection sensor in load direction

Standard mast designs ERC 215a				
	Lift h_3 (mm)	Lowered mast height h_1 (mm)	Free lift h_2 (mm)	Extended mast height h_4 (mm)
Duplex ZZ	3100	2050	1523	3627
	4000	2500	1973	4527

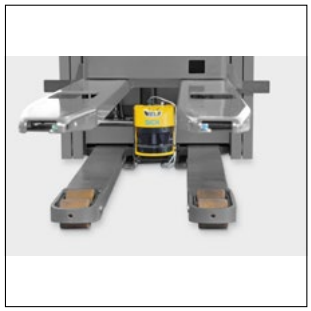
Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)			Jungheinrich	
	1.2	Model			**ERC 215a**[6]	**ERC 215a**[2)6]
	1.3	Drive			Electric	
	1.4	Manual, pedestrian, stand-on, seated, order picker operation			Pedestrian/tiller/AGV	
	1.5	Load capacity/rated load	Q	t	1.5[6]	1.3[2)6]
	1.6	Load centre distance	c	mm	600	
	1.8	Load distance	x	mm	654[6]	667[2)6]
	1.9	Wheelbase	y	mm	1,357[6]	1,537[2)6]
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	1,370	1,430
	2.2	Axle loading, laden front/rear		kg	980 / 1,890[6]	1,050 / 1,680[2)6]
	2.3	Axle loading, unladen front/rear		kg	970 / 400[6]	1,010 / 420[2)6]
Wheels / frame	3.1	Tyres			PU	
	3.2	Tyre size, front		mm	Ø 230 x 77	
	3.3	Tyre size, rear		mm	Ø 85 x 110 / 85 x 85	
	3.4	Additional wheels (dimensions)		mm	Ø 140 x 54	
	3.5	Wheels, number front/rear (x = driven wheels)			1x +1 / 2	
	3.6	Tread width, front	b_{10}	mm	507	
	3.7	Tread width, rear	b_{11}	mm	400	
Basic dimensions	4.2	Mast height (closed)	h_1	mm	2,050[6]	
	4.2.1	Total height	h_{15}	mm	2,132[6]	
	4.3	Free lift	h_2	mm	1,523[6]	
	4.4	Lift	h_3	mm	3,100[6]	
	4.5	Extended mast height	h_4	mm	3,627[6]	
	4.9	Height of tiller in drive position min. / max.	h_{14}	mm	1,158 / 1,414	
	4.15	Height, lowered	h_{13}	mm	95	
	4.19	Overall length	l_1	mm	2,363	2,530[2)]
	4.20	Length to face of forks	l_2	mm	1,130	1,297[2)]
	4.21	Overall width	b_1/b_2	mm	911	
	4.22	Fork dimensions	s/e/l	mm	56 / 185 / 1,233	
	4.25	Width across forks	b_5	mm	570	
	4.32	Ground clearance, centre of wheelbase	m_2	mm	30	23[2)]
Performance data	5.1	Travel speed, laden/unladen		km/h	1.7 / 1.7[1)3)4)]	1.7 / 1.7[1)3)5)]
	5.2	Lift speed, laden/unladen		m/s	0.16 / 0.25	0.15 / 0.25
	5.3	Lowering speed, laden/unladen		m/s	0.37 / 0.34	
	5.8	Max. gradeability, laden/unladen		%	4 / 4	
	5.10	Service brake			regenerative	
Electrics	6.1	Drive motor, output S2 60 min.		kW	2.8	
	6.2	Lift motor, output at S3 (on time) 11%		kW	3	
	6.3	Battery as per DIN 43531/35/36 A, B, C, no			B 3 PzS	
	6.4	Battery voltage/nominal capacity K5		V/Ah	24 / 375	
	6.5	Battery weight		kg	288	
	6.6	Energy consumption according to VDI cycle		kWh/h	1.8	
Misc.	8.1	Type of drive control			AC speedCONTROL	
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	68	

1) in manual operation 3.0 km/h
2) Optional: Laser scanner in load direction
3) Optional: Travel speed in drive direction: max. 9.0 km/h
4) Travel speed in load direction: max. 0.3 m/s
5) Travel speed in load direction: max. 1.5 m/s
6) Values for 310 ZZ standard mast; (with battery)

In accordance with VDI Guideline 2198 this data sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

Benefit from the advantages



Established standard truck used as basis

The basis of the ERC 215a is formed by an electric pedestrian pallet truck, a tried and tested standard truck combined with appropriate safety technology as well as automation and navigation components. The simple manual operation is also performed via the standard controls of the production truck. In addition to the reliability and efficiency, the ERC 215a also possesses other advantages of the standard truck:

- 2.8 kW, 3-phase AC drive motor.
- Automatically controlled high-performance lift motor giving energy efficient lifting and lowering.
- Sturdy design with 8-mm steel frame and enclosed frame contours.

Safety system

The ERC 215a is equipped with a personal protection scanner in the drive direction as standard. In line with the speed of the truck, this sensor scans the travel route in front of the AGV for obstacles. Should an obstacle be located in the path of the truck, the automated guided vehicle system (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.

Simple integration into existing systems

The automated guided vehicle system (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 ERC 215a. If an existing host system, such as the Jungheinrich WMS or another WMS/ERP system is to be used, the automated guided vehicle system can be connected to this system via the Logistics Interface.

Everything at a glance – with the AGV control panel

The graphic 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 ERC 215a, as with the other AGV models. These are designed and specified according to project and environment.

Numerous additional system enhancements

Various optional equipment is available for the EKS 215a on a project-specific basis:

- Charging contact plates on the AGV for automatic battery charging.
- Floor spot.
- Barcode scanner.
- Personal protection system in load direction.
- Obstacle detection scanner.

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.

Jungheinrich UK Ltd.

Head Office:
Sherbourne House
Sherbourne Drive
Tilbrook
Milton Keynes MK7 8HX
Telephone 01908 363100
Fax 01908 363180

info@jungheinrich.co.uk
www.jungheinrich.co.uk

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