

Automated, reliable and efficient -an alternative for all standardised transportation tasks

Optimised transport routes

Energy efficient control

Short payback period

Compact design

Project-specific adjustment due to range of equipment options



ERC 215a

Automated Guided Vehicle (AGV) based on stand-on stacker (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 the highest possible 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 higher lift height of the ERC 215a expand its broad range of applications.

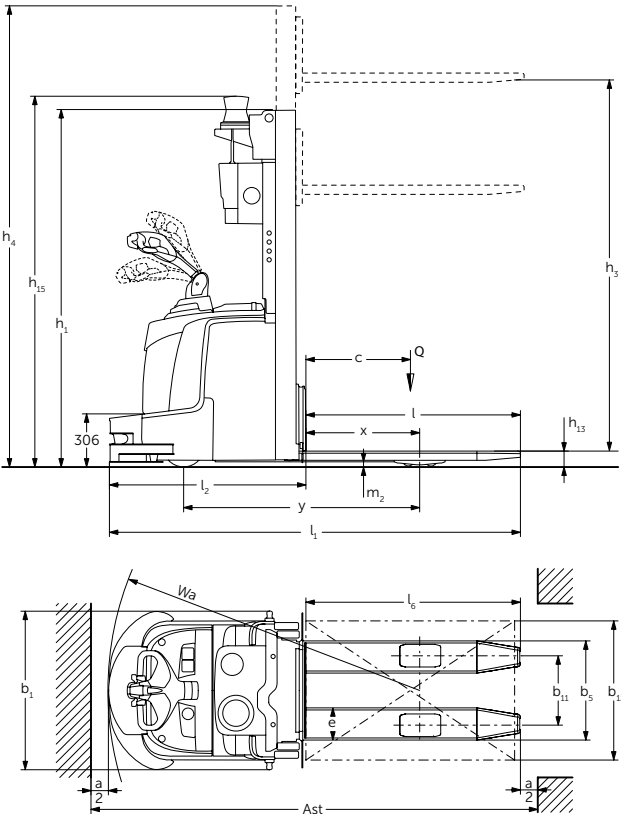
No floor work is required for the navigation of the Jungheinrich AGV. The navigation is by means of laser navigation. For the laser navigation, reflectors are attached to suitable objects

along the travel route such as racking, columns and walls or natural landmarks are used.

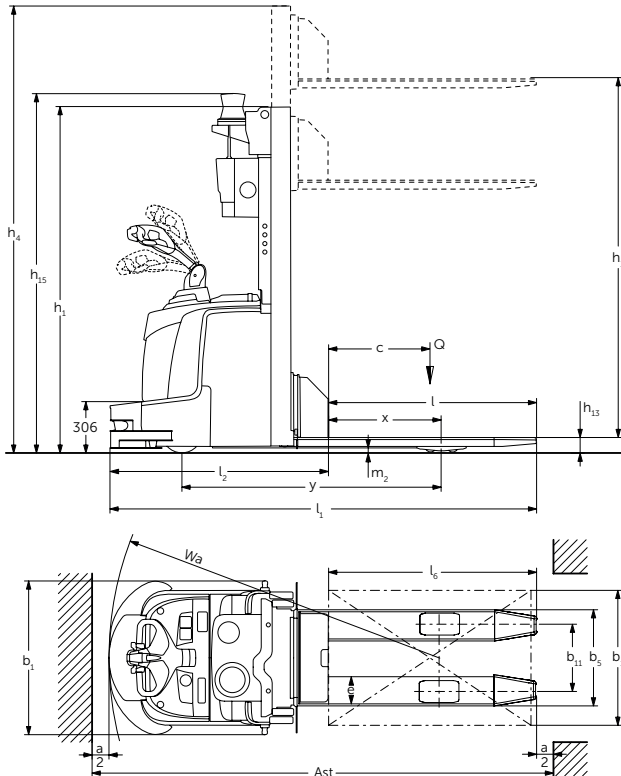
The AGV system can easily be integrated into the existing IT and software landscape. Our award-winning Jungheinrich Logistics Interface facilitates the smooth connection with a host system, such as the Jungheinrich WMS or other available WMS/ERP systems. However, the AGV system in the form of the ERC 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 to react 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 ³⁾	ERC 215a ²⁾³⁾
	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 ³⁾	1.3 ²⁾³⁾
	1.6	Load centre distance	c mm	600	
	1.8	Load distance	x mm	654 ³⁾	667 ²⁾³⁾
	1.9	Wheelbase	y mm	1,357 ³⁾	1,537 ²⁾³⁾
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	1,370	1,430
	2.2	Axle load with load front/rear	kg	980 / 1,890 ³⁾	1,050 / 1,680 ²⁾³⁾
	2.3	Axle load without load front/rear	kg	970 / 400 ³⁾	1,010 / 420 ²⁾³⁾
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 (lowered)	h ₁ mm	2,050 ³⁾	
	4.2.1	Total height	h ₁₅ mm	2,132 ³⁾	
	4.3	Free lift	h ₂ mm	1,523 ³⁾	
	4.4	Lift	h ₃ mm	3,100 ³⁾	
	4.5	Extended mast height	h ₄ mm	3,627 ³⁾	
	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	9 / 9 ¹⁾	6.1 / 6.1 ¹⁾
	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⁾ Option: Laser scanner in load direction

³⁾ Values for 310 ZZ standard mast; (with battery)

In accordance with VDI Guideline 2198 this specification 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 AGV will reliably come to a halt in front of it. In addition, they also scan 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 AGV system 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 AGV system 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

The high degree of precision allows for pinpoint accuracy in the positioning of the trucks and loads to be transported at the 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 ERC 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.

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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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