

Powerful thanks to maintenance-free 3-phase AC drive motor

Electronically controlled lift motor for sensitive lifting and lowering

Smooth and safe travelling position on sprung platform with side arms (optional)

Fatigue-free, safe steering with electrical tiller steering and Curve Control

Fast lifting of light loads with LiftPlus (optional up to 1.6 tonnes)



## ERC 212/214/216/220

**Electric pedestrian stacker (1,200/1,400/1,600/2,000 kg)**

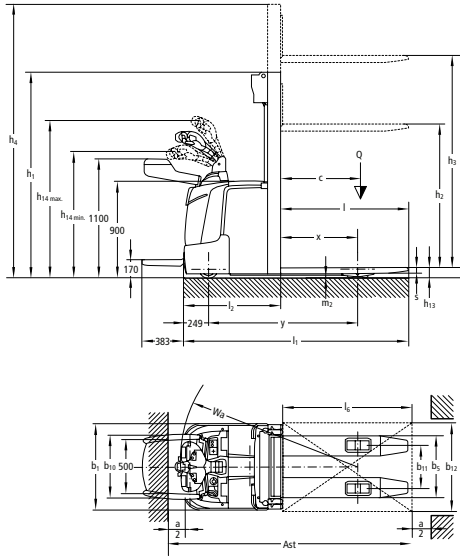
The ERC 212/214/216/220 electric pedestrian stacker combines the manoeuvrability of a pedestrian stacker with the option to work comfortably and quickly as a ride-on truck.

The electronically controlled, powerful lift motor ensures smooth and quiet lifting or lowering of the load at the touch of a button: From smooth depositing, rapid lifting/lowering or precisely approaching the racking – the operator has everything under control at all times. There is also a powerful 24-volt 3-phase AC drive motor. Its optimised efficiency ensures high speeds and outstanding acceleration coupled with the lowest energy consumption.

With the ride-on option, the ERC offers very cost-effective throughput/transport of goods over longer distances. The sprung stand-on platform relieves the strain on the operator.

LiftPlus (optional) enables the ERC 214/216 to achieve a significantly higher lift speed when lifting the forks with a light load (up to 400 kg) in comparison with the production version. Depending on the application, the truck is available with two additional speed variants (optional): The 7-km/h version: This model of the ERC comes with side arms which keep the operator secure on the stand-on platform even when cornering. The 9-km/h version: It is ideal for transport over longer distances. Batteries with capacities of up to 375 Ah plus the option of lateral battery exchange for multishift operation (optional) ensure that the ERC will not run out of power even under the most challenging conditions. A built-in charger (optional) ensures easy, reliable battery charging at any standard 13 Amp plug socket.

# ERC 212/214/216/220



Standard mast types ERC 212/214/216/220													
	Lift $h_3$ (mm)	Lowered mast height <sup>1)</sup> $h_1$ (mm)				Free lift $h_2$ (mm)				Extended mast height $h_4$ (mm)			
		ERC 212	ERC 214	ERC 216	ERC 220	ERC 212	ERC 214	ERC 216	ERC 220	ERC 212	ERC 214	ERC 216	ERC 220
Duplex ZT	2400	-	-	1750	-	-	-	100	-	-	-	2925	-
	2500	1750	1750	-	1950	100	100	-	100	2975	2975	-	3165
	2600	-	-	1850	-	-	-	100	-	-	-	3125	-
	2700	1850	1850	-	-	100	100	-	-	3175	3175	-	-
	2800	-	-	1950	2100	-	-	100	100	-	-	3325	3465
	2900	1950	1950	-	-	100	100	-	-	3375	3375	-	-
	3100	-	-	2100	-	-	-	100	-	-	-	3625	-
	3200	2100	2100	-	-	100	100	-	-	3675	3675	-	-
	3500	-	-	2300	2450	-	-	100	100	-	-	4025	4165
	3600	2300	2300	-	-	100	100	-	-	4075	4075	-	-
	3800	-	-	2450	-	-	-	100	-	-	-	4325	-
	4000	-	-	2550	-	-	-	100	-	-	-	4525	-
	4100	2550	2550	-	-	100	100	-	-	4575	4575	-	-
4200	-	-	2650	-	-	-	100	-	-	-	4725	-	
4300	2650	2650	-	-	100	100	-	-	4775	4775	-	-	
Duplex ZZ	2400	-	-	1700	-	-	-	1175	-	-	-	2925	-
	2500	1700	1700	-	1900	1225	1225	-	1235	2975	2975	-	3165
	2800	-	-	1900	2050	-	-	1375	1385	-	-	3325	3465
	2900	1900	1900	-	-	1425	1425	-	-	3375	3375	-	-
	3100	-	-	2050	-	-	-	1525	-	-	-	3625	-
	3200	2050	2050	-	-	1575	1575	-	-	3675	3675	-	-
	3500	-	-	2250	2400	-	-	1725	1735	-	-	4025	4165
	3600	2250	2250	-	-	1775	1775	-	-	4075	4075	-	-
	4000	-	-	2500	-	-	-	1975	-	-	-	4525	-
	4100	2500	2500	-	-	2025	2025	-	-	4575	4575	-	-
	4200	-	-	2600	-	-	-	2075	-	-	-	4725	-
	4300	2600	2600	-	-	2125	2125	-	-	4775	4775	-	-
	Triplex DZ	3510	-	-	-	1850	-	-	-	1150	-	-	-
3990		-	-	1830	-	-	-	1298	-	-	-	4522	-
4090		-	1830	-	-	-	1341	-	-	-	4579	-	-
4200		-	-	1900	2080	-	-	1368	1380	-	-	4732	4900
4300		1915	1900	-	-	1408	1411	-	-	4807	4789	-	-
4590		-	-	2030	-	-	-	1498	-	-	-	5122	-
4690		-	2030	-	-	-	1541	-	-	-	5179	-	-
4700		2050	-	-	-	1543	-	-	-	5212	-	-	-
4800		-	-	-	2280	-	-	-	1580	-	-	-	5500
5250		-	-	2250	-	-	-	1718	-	-	-	5782	-
5350		-	2250	-	-	-	-	1761	-	-	5839	-	-

<sup>1)</sup> with 100 mm free lift

# Technical data in line with VDI 2198

				Jungheinrich					
				ERC 212	ERC 214	ERC 216	ERC 220		
Identification	1.1	Manufacturer (short form)							
	1.2	Model							
	1.3	Drive		Electrics					
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		pedestrian					
	1.5	Load capacity/rated load	Q	t	1.2	1.4	1.6	2	
	1.6	Load centre distance	c	mm	600				
	1.8	Load distance	x	mm	688 <sup>3)</sup>				
	1.9	Wheelbase	y	mm	1336	1357	1357	1357	
	Weights	2.1	Service weight		kg	1160	1220	1230	1310
2.2		Axle load, w. load, front / rear		kg	900 / 1460	970 / 1650	990 / 1840	1010 / 2300	
2.3		Axle load, w.o. load, front / rear		kg	840 / 320	880 / 340	880 / 350	890 / 420	
Wheels / chassis	3.1	Tyres		Vulkollan					
	3.2	Tyre size, at front		Ø 230 x 77					
	3.3	Tyre size, at rear		Ø 85 x 110 <sup>5)</sup>	Ø 85 x 110 <sup>5)</sup>	Ø 85 x 110 <sup>5)</sup>	Ø 85 x 85		
	3.4	Additional wheels (dimensions)		Ø 140 x 54					
	3.5	Wheels, number front/rear (x = driven wheels)		1x +1/2	1x +1/2	1x +1/2	1x +1/4		
	3.6	Track width, front	b <sub>10</sub>	mm	507				
	3.7	Track width, rear	b <sub>11</sub>	mm	400				
Basic dimensions	4.2	Mast height (lowered)		h <sub>1</sub>	mm	1950	1950	1950	2100
	4.3	Free lift		h <sub>2</sub>	mm	100			
	4.4	Lift		h <sub>3</sub>	mm	2900	2900	2800	2800
	4.5	Extended mast height		h <sub>4</sub>	mm	3375	3375	3325	3465
	4.9	Height of tiller in drive position min. / max.		h <sub>14</sub>	mm	1158 / 1414			
	4.15	Lowered height		h <sub>13</sub>	mm	90			
	4.19	Overall length		l <sub>1</sub>	mm	2046 <sup>3)</sup>	2067 <sup>3)</sup>	2067 <sup>3)</sup>	2067 <sup>3)</sup>
	4.20	Length incl. back of forks		l <sub>2</sub>	mm	896 <sup>3)</sup>	917 <sup>3)</sup>	917 <sup>3)</sup>	917 <sup>3)</sup>
	4.21	Total width		b <sub>1</sub> /b <sub>2</sub>	mm	800	800	800	820
	4.22	Fork dimensions		s/e/l	mm	56 / 185 / 1150			
	4.25	Width over forks		b <sub>5</sub>	mm	570			
	4.32	Floor clearance centre wheelbase		m <sub>2</sub>	mm	30	30	30	20
	4.33	Aisle width for pallets 1000 x 1200 sideways		Ast	mm	2259 <sup>2)3)</sup>	2280 <sup>2)3)</sup>	2280 <sup>2)3)</sup>	2280 <sup>2)3)</sup>
	4.34	Aisle width for pallets 800 x 1200 lengthways		Ast	mm	2309 <sup>1)3)</sup>	2330 <sup>1)3)</sup>	2330 <sup>1)3)</sup>	2330 <sup>1)3)</sup>
4.35	Turning radius		W <sub>a</sub>	mm	1597	1618	1618	1618	
Performance data	5.1	Travel speed, w. / w.o. load		km/h	9 / 9 <sup>4)</sup>	9 / 9 <sup>4)</sup>	9 / 9 <sup>4)</sup>	8 / 8 <sup>4)</sup>	
	5.2	Lift speed, w. / w.o. load		m/s	0.13 / 0.22	0.16 / 0.25	0.15 / 0.25	0.1 / 0.18	
	5.3	Lower speed, w. / w.o. load		m/s	0.43 / 0.37	0.37 / 0.34	0.37 / 0.34	0.37 / 0.34	
	5.8	Max. gradeability, laden/unladen		%	10 / 16	9 / 16	8 / 16	6 / 16	
	5.10	Service brake		generated					
Electrics	6.1	Drive motor rating S2 60 min.		kW	2.8				
	6.2	Lift motor, output at S3 (on time) 11 %		kW		3	3	3	
	6.2	Lift motor, output at S3 (on time) 12 %		kW	2				
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		B 43535					
	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	1.08	1.25	1.39		
	6.7	Throughput efficiency		t/h			65		
6.8	Energy consumption at max. throughput		kWh/h			0.77			
Misc.	8.1	Type of drive control		AC SpeedControl					
	8.4	Sound pressure level at operator's ear according to EN 12053		dB (A)	68				

<sup>1)</sup> Diagonal in accordance with VDI: + 138 mm

<sup>2)</sup> Diagonal in accordance with VDI: + 215 mm

<sup>3)</sup> DZ: x - 42 mm; l<sub>1</sub> + 42 mm; l<sub>2</sub> + 42 mm

<sup>4)</sup> Other speed versions: 6.0/6.0 km/h (standard), and 7.0/7.0 km/h

<sup>5)</sup> Tandem Ø 85 x 85 mm

# Benefit from the advantages



ERC storage compartment



ERC operator position



Easy to operate mains connector for on-board charger

## 'Intelligent' control and advanced drive technology

The ERC 212/214/216/220 is equipped with a modern 3-phase AC drive motor, offering you greater performance while simultaneously reducing operating costs. Make the most of these advantages:

- High level of efficiency with excellent energy management.
- Powerful acceleration.
- Rapid direction change.
- Jungheinrich SpeedControl – roll-back protection on gradients.
- No carbon brushes - maintenance-free drive motor.

## Flexible operation

Different models for a whole range of applications:

Model 1: Folding stand-on platform without side arms

- Pedestrian mode.
- Travel speed (6 km/h) with platform folded down.
- Travel speed (4.4 km/h) when platform folded up.

Model 2: Folding stand-on platform with side arms (optional)

- Pedestrian/ride-on operation.
- 7 km/h travel speed.

Model 3: Folding stand-on platform with side arms and high DrivePlus speed (optional)

- Pedestrian/ride-on operation.
- 9 km/h travel speed (ERC 220: 8 km/h).

## Easy stacking and retrieval

All lifting and lowering functions are comfortably controlled by the multifunctional tiller arm without having to reach forward. The lift motor is electronically controlled. This enables the forks to be positioned precisely when stacking or retrieving pallets, less load on the electronics and also significantly reduced noise when lifting. The proportional hydraulics ensures precise and gentle depositing of loads in the racking or on the floor. In confined spaces the stand-on platform and side arms can simply be folded in and the ERC can be used as a pedestrian truck. LiftPlus (optional) enables the ERC 214/216 to achieve a significantly higher lift speed with a light load (up to 400 kg) in comparison with the production version. For improving throughput when stacking!

## Robust design

The ERC is designed for high highly productive applications:

- 8 mm steel chassis.
- Enclosed chassis.
- Robust mast with high residual capacities.

## Comfortable and safe operation

- The electric tiller steering is particularly precise and allows for easy steering and fatigue-free operation, even in confined spaces. Curve Control automatically reduces the speed when cornering to a safe level.
- The sprung stand-on platform accommodates major uneven surfaces, effectively reducing strain on the operator's spine.
- Padded side arms (optional) ensure a comfortable posture when cornering.
- The low platform height ensures easy entry/exit.

## Long uptimes

Battery capacities of up to 375 Ah ensure long uptimes:

- 3 EPzS 240/270/375Ah.
- Side battery removal option for multi-shift environments.
- On-board charger (24V/30A) for wet cell batteries and maintenance-free batteries for easy charging at any 230 volt mains socket (optional).

## Additional equipment

- CanDis control instrument.
- LiftPlus.
- Twin roller support wheel to reduce wear.
- CanCode access control.
- Cold store version.
- Load guard.
- Gentle lowering of the load.

**Jungheinrich**  
Vertrieb Deutschland AG & Co. KG

Am Stadtrand 35  
D-22047 Hamburg  
Telephone +49 40 6948-0  
Telefax +49 40 6948-1777

info@jungheinrich.com  
www.jungheinrich.com

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

Jungheinrich fork lift trucks meet European safety requirements.



**JUNGHEINRICH**  
Machines. Ideas. Solutions.