

Powerful, maintenance-free 3-phase AC drive motor

Electronically controlled lift motor for sensitive lifting and lowering

Smooth and safe traveling position on shock-absorbing platform with side arms (optional)

Safe steering with electrical tiller steering and Curve Control

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



## ERC 214 / 216

**Fork-over stand-on stacker (3,086 / 3,527 lbs.)**

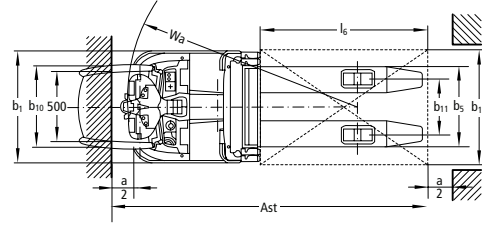
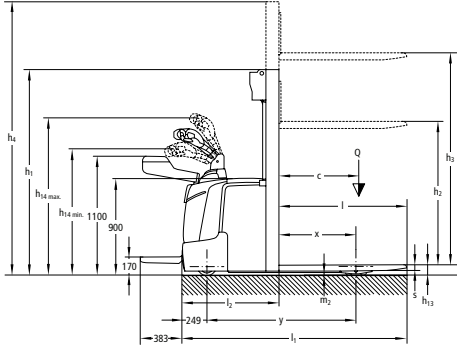
The ERC 214 / 216 electric fork-over stand-on stacker combines the maneuverability of a pedestrian stacker with the option to work comfortably and quickly as a ride-on truck. The electronically controlled, powerful lift motor ensures smooth and quiet lifting or lowering of the load at the touch of a 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 optimized efficiency ensures high speeds and

outstanding acceleration coupled with the lowest energy consumption.

With the ride-on option, the ERC offers cost-effective throughput / transport of goods over longer distances. The shock-absorbing 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 881 lbs.). Depending on the application, the truck is available with two additional speed variants (optional). The 4.4 mph version comes with

side arms which keep the operator secure on the stand-on platform even when cornering. The 5.6 mph version is ideal for transport over longer distances. Batteries with capacities of up to 375 Ah plus the option of side battery extraction for multishift operation (optional) ensures that the ERC will not run out of power in most conditions. A built-in charger (optional) ensures easy, reliable battery charging at any standard 13 Amp plug socket.

# ERC 214/216



Standard Mast Types Two-Stage Mast ZT

	Lift height		Collapsed mast height				Free lift				Extended mast height			
	$h_3$		$h_1$				$h_2$				$h_4$			
	in	mm	ERC 214		ERC 216		ERC 214		ERC 216		ERC 214		ERC 216	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
Duplex ZT	94.5	2,400	—	—	68.9	1,750	—	—	3.9	100	—	—	115.2	2,925
	98.4	2,500	68.9	1,750	—	—	3.9	100	—	—	117.1	2,975	—	—
	102.4	2,600	—	—	72.8	1,850	—	—	3.9	100	—	—	123.0	3,125
	106.3	2,700	72.8	1,850	—	—	3.9	100	—	—	125.0	3,175	—	—
	110.2	2,800	—	—	76.8	1,950	—	—	3.9	100	—	—	130.9	3,325
	114.2	2,900	76.8	1,950	—	—	3.9	100	—	—	132.9	3,375	—	—
	122.0	3,100	—	—	82.7	2,100	—	—	3.9	100	—	—	142.7	3,625
	126.0	3,200	82.7	2,100	—	—	3.9	100	—	—	144.7	3,675	—	—
	137.8	3,500	—	—	90.6	2,300	—	—	3.9	100	—	—	158.5	4,025
	141.7	3,600	90.6	2,300	—	—	3.9	100	—	—	160.4	4,075	—	—
	149.6	3,800	—	—	96.5	2,450	—	—	3.9	100	—	—	170.3	4,325
	157.5	4,000	—	—	100.4	2,550	—	—	3.9	100	—	—	178.1	4,525
	161.4	4,100	100.4	2,550	—	—	3.9	100	—	—	180.1	4,575	—	—
165.4	4,200	—	—	104.3	2,650	—	—	3.9	100	—	—	186.0	4,725	
169.3	4,300	104.3	2,650	—	—	3.9	100	—	—	188.0	4,775	—	—	
Triplex ZZ	94.5	2,400	—	—	66.9	1,700	—	—	46.3	1,175	—	—	115.2	2,925
	98.4	2,500	66.9	1,700	—	—	48.2	1,225	—	—	117.1	2,975	—	—
	110.2	2,800	—	—	74.8	1,900	—	—	54.1	1,375	—	—	130.9	3,325
	114.2	2,900	74.8	1,900	—	—	56.1	1,425	—	—	132.9	3,375	—	—
	122.0	3,100	—	—	80.7	2,050	—	—	60.0	1,525	—	—	142.7	3,625
	126.0	3,200	80.7	2,050	—	—	62.0	1,575	—	—	144.7	3,675	—	—
	137.8	3,500	—	—	88.6	2,250	—	—	67.9	1,725	—	—	158.5	4,025
	141.7	3,600	88.6	2,250	—	—	69.9	1,775	—	—	160.4	4,075	—	—
	157.5	4,000	—	—	98.4	2,500	—	—	77.8	1,975	—	—	178.1	4,525
	161.4	4,100	98.4	2,500	—	—	79.7	2,025	—	—	180.1	4,575	—	—
165.4	4,200	—	—	102.4	2,600	—	—	81.7	2,075	—	—	186.0	4,725	
169.3	4,300	102.4	2,600	—	—	83.7	2,125	—	—	188.0	4,775	—	—	
Triplex DZ	157.1	3,990	—	—	72.1	1,830	—	—	51.1	1,298	—	—	178.0	4,522
	161.0	4,090	72.1	1,830	—	—	52.8	1,341	—	—	180.3	4,579	—	—
	165.4	4,200	—	—	74.8	1,900	—	—	53.9	1,368	—	—	186.3	4,732
	169.3	4,300	74.8	1,900	—	—	55.6	1,411	—	—	188.5	4,789	—	—
	180.7	4,590	—	—	79.9	2,030	—	—	59.0	1,498	—	—	201.7	5,122
	184.6	4,690	79.9	2,030	—	—	60.7	1,541	—	—	203.9	5,179	—	—
	206.7	5,250	—	—	88.6	2,250	—	—	67.6	1,718	—	—	227.6	5,782
	210.6	5,350	88.6	2,250	—	—	69.3	1,761	—	—	229.9	5,839	—	—

1) with 3.9 in (100 mm) free lift

# Technical data

as of: 06/2016

Characteristics	1.1	Manufacturer			Jungheinrich		Jungheinrich				
	1.2	Model			ERC 214		ERC 216				
	1.3	Drive			electric		electric				
	1.4	Type of operation			pedestrian		pedestrian				
	1.5	Load capacity / rated load	Q	lb	T	3,086	1.4	3,527	1.6		
	1.6	Load center distance	c	in	mm	23.6	600	23.6	600		
	1.8	Load distance	x	in	mm	27.1 <sup>3)</sup>	688 <sup>3)</sup>	27.1 <sup>3)</sup>	688 <sup>3)</sup>		
	1.9	Wheelbase	y	in	mm	53.4	1,357	53.4	1,357		
	Weights	2.1	Service weight			lb	kg	2,689	1,220	2,712	1,230
2.2		Axle load – with load, front / rear			lb	kg	2,138 / 3,638	9,70 / 1,650	2,183 / 4,057	990 / 1,840	
2.3		Axle load – unloaded, front / rear			lb	kg	1,940 / 750	880 / 340	1,940 / 772	880 / 350	
Wheels, Chassis	3.1	Tires			Vulkollan		Vulkollan				
	3.2	Tire size, front		in	mm	9.1 x 3.0	230 x 77	9.1 x 3.0	230 x 77		
	3.3	Tire size, rear		in	mm	3.3 x 4.3 <sup>5)</sup>	85 x 110 <sup>5)</sup>	3.3 x 4.3 <sup>5)</sup>	85 x 110 <sup>5)</sup>		
	3.4	Additional wheels (dimensions)			in	mm	5.5 x 2.1	140 x 54	5.5 x 2.1	140 x 54	
	3.5	Wheels – number, front / rear (x=driven)					1x+1/2		1x+1/2		
	3.6	Track width, front	b <sub>10</sub>	in	mm	20.0	507	20.0	507		
	3.7	Tread width, rear	b <sub>11</sub>	in	mm	15.7	400	15.7	400		
Dimensions	4.2	Mast height (lowered)			h <sub>1</sub>	in	mm	76.8	1,950	76.8	1,950
	4.3	Free lift			h <sub>2</sub>	in	mm	3.9	100	3.9	100
	4.4	Lift			h <sub>3</sub>	in	mm	114.2	2,900	110.2	2,800
	4.5	Extended mast height			h <sub>4</sub>	in	mm	132.9	3,375	130.9	3,325
	4.9	Height of tiller in drive position – minimum / maximum			h <sub>14</sub>	in	mm	45.6 / 55.7	1,158 / 1,414	45.6 / 55.7	1,158 / 1,414
	4.15	Lowered height			h <sub>13</sub>	in	mm	3.5	90	3.5	90
	4.19	Overall length			l <sub>1</sub>	in	mm	81.4 <sup>3)</sup>	2067 <sup>3)</sup>	81.4 <sup>3)</sup>	2067 <sup>3)</sup>
	4.20	Length – including back of forks			l <sub>2</sub>	in	mm	36.1 <sup>3)</sup>	917 <sup>3)</sup>	36.1 <sup>3)</sup>	917 <sup>3)</sup>
	4.21	Total width			b <sub>1</sub> / b <sub>2</sub>	in	mm	31.5	800	31.5	800
	4.22	Fork dimensions, thickness / width / length				in	mm	2.2 / 7.3 / 45.3	56 / 185 / 1,150	2.2 / 7.3 / 45.3	56 / 185 / 1,150
	4.25	Width over forks			b <sub>5</sub>	in	mm	22.4	570	22.4	570
4.32	Floor clearance center wheelbase			m <sub>2</sub>	in	mm	1.2	30	1.2	30	
4.33	Aisle width for pallets 39.4" x 47.2" sideways			Ast	in	mm	89.8 <sup>2) 3)</sup>	2,280 <sup>2) 3)</sup>	89.8 <sup>2) 3)</sup>	2,280 <sup>2) 3)</sup>	
4.34	Aisle width for pallets 31.5" x 47.2" lengthways			Ast	in	mm	91.7 <sup>3) 3)</sup>	2,330 <sup>3) 3)</sup>	91.7 <sup>3) 3)</sup>	2,330 <sup>3) 3)</sup>	
4.35	Turning radius			Wa	in	mm	63.7	1,618	63.7	1,618	
Performance	5.1	Travel speed, with / without load			mph	kph	5.6 / 5.6 <sup>4)</sup>	9 / 9 <sup>4)</sup>	5.6 / 5.6 <sup>4)</sup>	9 / 9 <sup>4)</sup>	
	5.2	Lift speed, with / without load			f/m	m/s	31.5 / 49.2	0.16 / 0.25	29.5 / 49.2	0.15 / 0.25	
	5.3	Lower speed, with / without load			f/m	m/s	72.8 / 66.9	0.37 / 0.34	72.8 / 66.9	0.37 / 0.34	
	5.8	Maximum gradeability, with / without load					9 / 16		8 / 16		
	5.10	Service brake					generated		generated		
Electrical	6.1	Drive motor, rating S <sub>2</sub> 60 minutes					kW		2.8		
	6.2	Lift motor, output at S <sub>3</sub> (on time) 11%					kW		3		
	6.3	Battery according to DIN 43531/35/36 A,B,C, no					B 43535		B 43535		
	6.4	Battery voltage / nominal capacity			k <sub>5</sub>	V	Ah	24	375	24	375
	6.5	Battery weight			lb	kg	635	288	635	288	
	6.6	Energy consumption according to VDI cycle					kWh/h		1.25		
	6.7	Throughput efficiency					t/h		65		
	6.8	Energy consumption at maximum throughput					kWh/h		0.77		
Other	8.1	Type of drive control					AC SpeedControl		AC SpeedControl		
	8.4	Sound level at driver's ear according to EN 12053					dB(A)		68		

1) Diagonal in accordance with VDI: + 5.4 in (138 mm)

2) Diagonal in accordance with VDI: + 8.5 in (215 mm)

3) DZ: x - 1.7 in (42 mm); l1 + 1.7 in (42 mm); l2 + 1.7 in (42 mm)

4) Other speed versions: 3.6 / 3.6 mph (6.0/6.0 km/h) (standard), and 4.4 / 4.4 mph (7.0/7.0 km/h)

5) Tandem Ø 3.3 x 3.3 in (85 x 85 mm)

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

# The Jungheinrich Advantage



ERC storage compartment



ERC operator position



Easy-to-operate main connector for on-board charger

## 'Intelligent' control and advanced drive technology

The ERC 214 / 216 is equipped with a modern 3-phase AC drive motor, offering you greater performance while simultaneously reducing operating costs. 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 (3.6 mph) with platform folded down.
- Travel speed (2.7 mph) when platform folded up.

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

- Pedestrian / ride-on operation.
- 4.3 mph travel speed.

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

- Pedestrian / ride-on operation.
- 5.6 mph travel speed.

## 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, which enables the forks to be positioned precisely when stacking or retrieving pallets. There is also less load on the electronics, which 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 882 lbs.) for improving throughput when stacking.

## Robust design

The ERC is designed for highly productive applications:

- 0.31 inch steel chassis.
- Enclosed chassis.
- Robust mast with high residual capacities.

## Comfortable and safe operation

- The electric tiller steering is precise and allows for easy steering and fatigue-free operation, even in confined spaces. Curve Control automatically reduces the speed to a safe level when cornering.
- The shock-absorbing stand-on platform accommodates major uneven surfaces, effectively reducing strain on the operator.
- 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 extraction option for multishift environments.
- On-board charger (24V / 30A) for wet cell batteries and maintenance-free batteries for easy charging at any 230 volt main 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.

## Parts when you need them

Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 PM of all Jungheinrich parts in the United States, or they're free, including freight. For customers in Canada and Mexico, the guarantee ensures shipping of parts within 24 hours from the time the order was placed by the dealer. See your local Jungheinrich dealer for program details.

\* Programs may be subject to change without notice and may vary by region. Please ask your local Jungheinrich dealer for complete terms and conditions.