



Electric pedestrian stacker **ERC 214bi-216bi**

Lift height: 2400-6000 mm / Load capacity: 1400-1600 kg

The image contains two technical drawings of a vehicle chassis, likely a truck or heavy-duty vehicle, showing side and top views with various dimensions.

Side View (Top): This view shows the side profile of the chassis. Key dimensions include:

- h_4 : Total height from the ground to the top of the chassis.
- h_6 : Height from the ground to the top of the engine compartment.
- 1271 : Height from the ground to the top of the cab.
- h_{14} : Height from the ground to the top of the chassis.
- 195 : Height from the ground to the bottom of the chassis.
- h_3 : Height from the ground to the top of the chassis.
- h_1 : Height from the ground to the top of the chassis.
- h_2 : Height from the ground to the top of the chassis.
- h_{13} : Height from the ground to the bottom of the chassis.
- 631 : Distance from the front axle to the center of gravity.
- l_2 : Distance from the front axle to the center of gravity.
- y : Distance from the front axle to the center of gravity.
- l_1 : Distance from the front axle to the center of gravity.
- c : Distance from the front axle to the center of gravity.
- Q : Weight of the chassis.
- x : Distance from the front axle to the center of gravity.
- l : Distance from the front axle to the center of gravity.
- m_2 : Mass of the chassis.
- s : Distance from the front axle to the center of gravity.

Top View (Bottom): This view shows the top of the chassis. Key dimensions include:

- 800 : Width of the chassis.
- 560 : Width of the chassis.
- b_{10} : Width of the chassis.
- W_a : Weight of the chassis.
- $a/2$: Distance from the front axle to the center of gravity.
- l_6 : Distance from the front axle to the center of gravity.
- e : Distance from the front axle to the center of gravity.
- b : Width of the chassis.
- b_{11} : Width of the chassis.
- b_4 : Width of the chassis.
- b_{12} : Width of the chassis.
- a_{st} : Distance from the front axle to the center of gravity.
- $a/2$: Distance from the front axle to the center of gravity.

ERC 214bi-216bi

ERC 214bi	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)
Duplex mast ZT	2500 mm	1800 mm	100 mm	3025 mm
	2760 mm	1930 mm	100 mm	3285 mm
	2900 mm	2000 mm	100 mm	3425 mm
	3160 mm	2130 mm	100 mm	3685 mm
	3600 mm	2350 mm	100 mm	4125 mm
	4100 mm	2600 mm	100 mm	4625 mm
	4300 mm	2700 mm	100 mm	4825 mm
Triplex mast DZ	4090 mm	1880 mm	1348 mm	4622 mm
	4300 mm	1950 mm	1418 mm	4832 mm
	4690 mm	2080 mm	1548 mm	5222 mm
	5350 mm	2300 mm	1768 mm	5882 mm
	6000 mm	2550 mm	1968 mm	6582 mm

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich
	1.2	Manufacturer's type designation			ERC 2bi (2020)
	1.3	Drive			Electric
	1.4	Operation			Operator platform
	1.5	Load capacity/load	Q	kg	1400
	1.6	Load centre distance	c	mm	600
	1.8	Load distance, centre of drive axle to fork	x	mm	681
	1.9	Wheelbase	y	mm	1324
Weights	2.1.1	Service weight (incl. battery)		kg	1500
	2.2	Axle load laden front/rear		kg	1215 / 1685
	2.3	Axle load unladen front/rear		kg	1145 / 355
Wheels/suspension system	3.1	Tyres			Polyurethane (PU)
	3.2	Tyre size, front			Ø 230 x 77
	3.3	Tyre size, rear			Ø 85 x 75
	3.4	Additional wheels			Ø 140 x 57
	3.5	Wheels, number front/back (x=driven)			1x + 1 / 4
	3.6	Tread width, front	b10	mm	535
	3.7	Tread width, rear	b11	mm	1000
	3.7.1	2. Tread width, rear		mm	1170
	3.7.2	3. Tread width, rear		mm	1370
Basic dimensions	4.2	Retracted mast height (h1)	h1	mm	2300
	4.3	Free lift (h2)	h2	mm	1768
	4.4	Lift (h3)	h3	mm	5350
	4.5	Extended mast height (h4)	h4	mm	5882
	4.7	Height of overhead guard (cab)	h6	mm	2300
	4.9	Height of tiller handle in drive position min./max.	h14	mm	1185 / 1245
	4.19	total length	l1	mm	2425
	4.20	Length including fork shank	l2	mm	1274
	4.21.1	total width	b1	mm	1100
	4.22	Fork dimensions	s/e/l	mm	40 x 100 x 1150
	4.24	Fork carriage width	b3	mm	800
	4.32	Ground clearance centre of wheelbase	m2	mm	50
	4.34.1	Aisle width (pallet 1000x1200 sideways)	Ast	mm	2632
	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	2682
	4.35	Turning radius	Wa	mm	1963

Performance data	5.1	Travel speed laden/unladen	km/h	9 / 12
	5.2	Lift speed laden/unladen	m/s	0.19 / 0.35
	5.3	Lowering speed laden/unladen	m/s	0.43 / 0.49
	5.8	Max. gradeability laden/unladen	%	8 / 16
	5.10	Service brake		generative
E-motor/Electronics	6.1	Drive motor, performance S2 60 min	kW	3.2
	6.2	Lift motor, performance with S3	kW	3
	6.3	Battery according to DIN 43531/35/36		Jungheinrich Li-ion
	6.4	Battery voltage/nominal capacity	V / Ah	24 / 260
	6.5	Battery weight	kg	98
	6.6	Energy consumption according to VDI cycle	kWh/h	0
	6.6.1	Energy consumption according to EN cycle	kWh/h	0.96
	6.6.2	CO2 equivalent as per EN 16796	kg/h	0.5
	6.7	Throughput	t/h	83
	6.8.1	Energy consumption with max. throughput	kWh/h	2.31
Other	8.1	Type of drive control		AC
	10.7	Sound level as per EN12053, operator's ear	dB (A)	68

- This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values.

The values in the table apply for the 260-Ah Li-ion battery, DZ 5350 / DZ 5250 mast, fork length 1,150 mm, with overhead guard, without bumper.

- VDI no. 1.8: with duplex telescopic mast: x + 32 mm
- VDI no. 4.19: with duplex telescopic mast: l1 - 32 mm
- VDI no. 4.20: with duplex telescopic mast: l2 - 32 mm
- VDI no. 4.21: depending on tread width: 1,100 / 1,270 / 1,470 mm
- VDI no. 4.24: available fork carrier widths: ISO 2A 800 / 975 mm
- VDI no. 4.34.1: diagonal as per VDI, depending on tread width: aisle width + 211 / + 211 / + 273 mm; with duplex telescopic mast: aisle width - 32 mm
- VDI no. 4.34.2: diagonal as per VDI, depending on tread width: aisle width + 136 / + 136 / + 223 mm; with duplex telescopic mast: aisle width - 32 mm
- VDI no. 6.2: with S3 = 11%
- VDI no. 6.5: with 130-Ah battery = 76 kg

The German production facilities in
Norderstedt, Moosburg and Landsberg
are certified as well as our Genuine Parts
Center in Kaltenkirchen.

ISO 9001
ISO 14001

 **JUNGHEINRICH**