

Electric pedestrian stacker with support arm lift

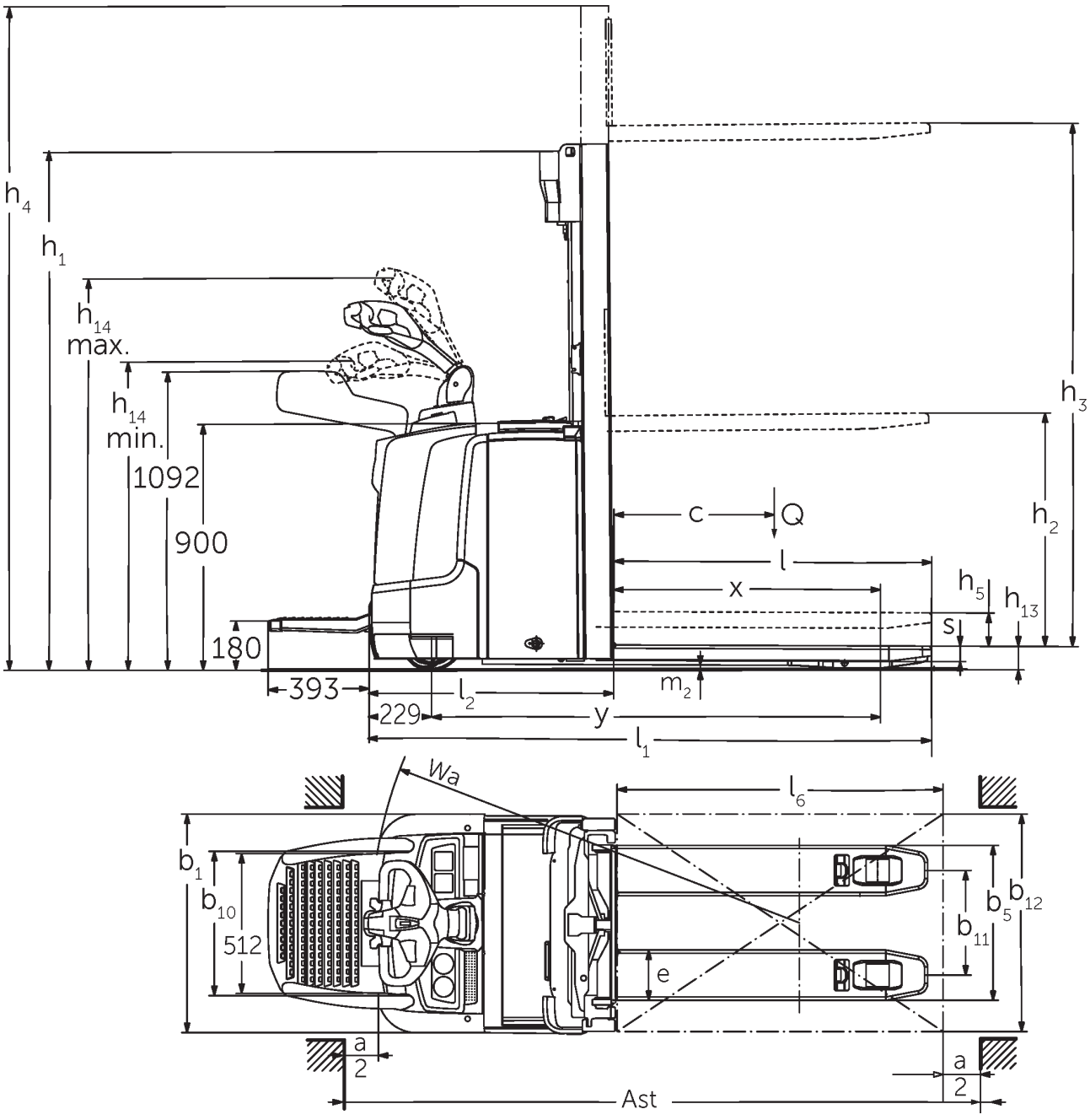
ERC 212z–220z

Lift height: 2400-6000 mm / Load capacity: 1200-2000 kg

LION technology

JUNGHEINRICH

ERC 212z–220z



Dimensional drawing ERC 2z

ERC 212z–220z

ERC 212z	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)
Duplex mast ZT	2500 mm	1750 mm	100 mm	2975 mm
	2700 mm	1850 mm	100 mm	3175 mm
	2900 mm	1950 mm	100 mm	3375 mm
	3200 mm	2100 mm	100 mm	3675 mm
	3600 mm	2300 mm	100 mm	4075 mm
	4100 mm	2550 mm	100 mm	4575 mm
	4300 mm	2650 mm	100 mm	4775 mm
Duplex mast ZZ	2500 mm	1700 mm	1225 mm	2975 mm
	2900 mm	1900 mm	1425 mm	3375 mm
	3200 mm	2050 mm	1575 mm	3675 mm
	3600 mm	2250 mm	1775 mm	4075 mm
	4100 mm	2500 mm	2025 mm	4575 mm
	4300 mm	2600 mm	2125 mm	4775 mm
Triplex mast DZ	4090 mm	1845 mm	1338 mm	4597 mm
	4300 mm	1915 mm	1408 mm	4807 mm
	4700 mm	2050 mm	1543 mm	5207 mm
ERC 214z	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT	2500 mm	1750 mm	100 mm	2975 mm
	2700 mm	1850 mm	100 mm	3175 mm
	2900 mm	1950 mm	100 mm	3375 mm
	3200 mm	2100 mm	100 mm	3675 mm
	3600 mm	2300 mm	100 mm	4075 mm
	4100 mm	2550 mm	100 mm	4575 mm
	4300 mm	2650 mm	100 mm	4775 mm
	4500 mm	2750 mm	100 mm	4975 mm
Duplex mast ZZ	2500 mm	1700 mm	1225 mm	2975 mm
	2900 mm	1900 mm	1425 mm	3375 mm
	3200 mm	2050 mm	1575 mm	3675 mm

	3600 mm	2250 mm	1775 mm	4075 mm
	4100 mm	2500 mm	2025 mm	4575 mm
	4300 mm	2600 mm	2125 mm	4775 mm
Triplex mast DZ	4090 mm	1830 mm	1341 mm	4579 mm
	4300 mm	1900 mm	1411 mm	4789 mm
	4690 mm	2030 mm	1541 mm	5179 mm
	5350 mm	2250 mm	1761 mm	5839 mm
ERC 214z, ERC 216z	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Triplex mast DZ	6000 mm	2500 mm	1968 mm	6532 mm
ERC 216z	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**
Duplex mast ZT	2400 mm	1750 mm	100 mm	2925 mm
	2600 mm	1850 mm	100 mm	3125 mm
	2800 mm	1950 mm	100 mm	3325 mm
	3100 mm	2100 mm	100 mm	3625 mm
	3500 mm	2300 mm	100 mm	4025 mm
	3800 mm	2450 mm	100 mm	4325 mm
	4000 mm	2550 mm	100 mm	4525 mm
	4200 mm	2650 mm	100 mm	4725 mm
	4400 mm	2750 mm	100 mm	4925 mm
Duplex mast ZZ	2400 mm	1700 mm	1175 mm	2925 mm
	2800 mm	1900 mm	1375 mm	3325 mm
	3100 mm	2050 mm	1525 mm	3625 mm
	3500 mm	2250 mm	1725 mm	4025 mm
	4000 mm	2500 mm	1975 mm	4525 mm
	4200 mm	2600 mm	2075 mm	4725 mm
Triplex mast DZ	3990 mm	1830 mm	1298 mm	4522 mm
	4200 mm	1900 mm	1368 mm	4732 mm
	4590 mm	2030 mm	1498 mm	5122 mm
	5250 mm	2250 mm	1718 mm	5782 mm

ERC 220z	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)
Duplex mast ZT	2540 mm	1950 mm	100 mm	3195 mm
	2840 mm	2100 mm	100 mm	3495 mm
	3540 mm	2450 mm	100 mm	4195 mm
Duplex mast ZZ	2540 mm	1900 mm	1245 mm	3195 mm
	2840 mm	2050 mm	1395 mm	3495 mm
	3540 mm	2400 mm	1745 mm	4195 mm
Triplex mast DZ	3750 mm	1900 mm	1218 mm	4432 mm
	4200 mm	2050 mm	1368 mm	4882 mm
	4800 mm	2250 mm	1568 mm	5482 mm

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich			
	1.2	Manufacturer's type designation			ERC 212z	ERC 214z	ERC 216z	ERC 220z
	1.3	Drive type			electric			
	1.4	Operation			Pedestrian			
	1.5	Load capacity/load	Q	kg	1200	1400	1600	2000
	1.5.1	Rated capacity/load with mast lift	Q	kg	1200	1400	1600	2000
	1.5.2	Rated capacity/load with support arm lift	Q	kg	2000			
	1.6	Load centre distance	c	mm	600			
	1.8	Load distance, centre of drive axle to fork	x	mm	910			
	1.9	Wheelbase	y	mm	1570	1591		
Weights	2.1.1	Service weight (incl. battery)		kg	1260	1320		1399
	2.2	Axle load laden front/rear		kg	1190 / 1270	1260 / 1460	1300 / 1620	1414 / 1989
	2.3	Axle load unladen front/rear		kg	950 / 310	990 / 330		1027 / 372
Wheels/chassis	3.1	Tyres			Polyurethane (PU)			
	3.2	Tyre size, front			Ø 230 x 77			
	3.3	Tyre size, rear			Ø 85 x 95 / 75			Ø 85 x 75
	3.4	Additional wheels			Ø 180 x 75			
	3.5	Wheels, number front/back (x=driven)			1x +1/2			1x + 1/4
	3.6	Tread width, front	b10	mm	515			
	3.7	Tread width, rear	b11	mm	385			
Basic dimensions	4.2	Retracted mast height (h1)	h1	mm	1950			2100
	4.3	Free lift (h2)	h2	mm	100			
	4.4	Lift (h3)	h3	mm	2900		2800	2840
	4.5	Extended mast height (h4)	h4	mm	3375		3325	3495
	4.6	Initial lift	h5	mm	122			
	4.9	Height of tiller handle in drive position min./max.	h14	mm	1170 / 1390			
	4.15	Height, lowered	h13	mm	90			
	4.19	Total length	l1	mm	2039	2060		
	4.20	Length including fork shank	l2	mm	889	910		
	4.21.1	total width	b1	mm	800			
	4.21.2	total width	b2	mm	-			800
	4.22	Fork dimensions	s/ e/l	mm	56 x 185 x 1150			
	4.25	Width across forks	b5	mm	570			
	4.32	Ground clearance centre of wheelbase	m2	mm	18			
	4.34.1	Aisle width (pallet 1000×1200 sideways)	Ast	mm	2252	2273		
	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	2302	2323		
	4.35	Turning radius	Wa	mm	1812	1833		
Performance data	5.1	Travel speed laden/unladen (Efficiency | drivePLUS)		km/h	6 / 6 | 9 / 11			6 / 6 | 8 / 10
	5.2	Lift speed laden/unladen		m/s	0.2 / 0.4	0.16 / -	0.15 / 0.3	0.11 / 0.34
	5.3	Lowering speed laden/unladen		m/s	0.45 / 0.35	- / -	0.45 / 0.3	0.5 / 0.35
	5.8	Max. gradeability laden/unladen (Efficiency | drivePLUS)		%	10 / 16 | 10 / 20	9 / 16 | 10 / 20	8 / 16 | 10 / 20	5 / 16 | 6 / 20
	5.10	Service brake			generative			

Electric motor/electronics	6.1	Drive motor, performance S2 60 min (Efficiency | drivePLUS)	kW	2.8 | 3.2			
	6.2	Lift motor, performance with S3	kW	3			
	6.3	Battery according to DIN 43531/35/36		DIN 43535 B			
	6.4	Battery voltage/nominal capacity	V / Ah	24 / 375			
	6.5	Battery weight	kg	294			
	6.6	Energy consumption according to VDI cycle	kWh/h	-			1.45
	6.6.1	Energy consumption according to EN cycle (Efficiency | PLUS)	kWh/h	0.63 | 0.64	0.81 | 0.76	0.86 | 0.83	1.07 | -
	6.6.2	CO2 equivalent according to EN ISO 23308 (Efficiency | PLUS)	kg/h	0.34 | 0.3	0.44 | 0.4	0.46 | 0.4	0.58 | -
	6.7	Throughput (Efficiency | PLUS)	t/h	56 | 57	64 | 65	71 | 73	85 | -
	6.8.1	Energy consumption with max. throughput (Efficiency | PLUS)	kWh/h	1.63 | 1.65	1.65 | 1.64	1.67 | 1.65	2.13 | -
Other	8.1	Type of drive control		AC			
	10.7	Sound pressure level according to EN12053	dB (A)	64			

- 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 LX-LBE battery compartment; mast ZT2800 / 2840 / 2900, raised support arms.
The battery compartments have no influence on the truck dimensions.

- VDI no. 1.8 with ERC 212z / 214z / 216z: with DZ mast: x - 42 mm; with lowered support arms: x + 54 mm.
- VDI no. 1.8 with ERC 220z: with DZ mast: x - 71 mm; with lowered support arms: x + 54 mm.
- VDI no. 1.9: with lowered support arms: x + 54 mm.
- VDI no. 3.3: tandem: Ø 85 x 75 mm.
- VDI no. 4.19 with ERC 212z / 214z / 216z: with DZ mast: l1 + 42 mm.
- VDI no. 4.19 with ERC 220z: with DZ mast: l1 + 71 mm.
- VDI no. 4.20 with ERC 212z / 214z / 216z: with DZ mast: l2 + 42 mm.
- VDI no. 4.20 with ERC 220z: with DZ mast: l2 + 71 mm.
- VDI no. 4.34.1 with ERC 212z / 214z / 216z: diagonal as per VDI: aisle width + 367 mm. with DZ mast: aisle width + 42 mm.
- VDI no. 4.34.1 with ERC 220z: diagonal as per VDI: aisle width + 367 mm. with DZ mast: aisle width + 71 mm.
- VDI no. 4.34.2 with ERC 212z / 214z / 216z: diagonal as per VDI: aisle width + 204 mm. with DZ mast: aisle width + 42 mm.
- VDI no. 4.34.2 with ERC 220z: diagonal as per VDI: aisle width + 204 mm. with DZ mast: aisle width + 71 mm.
- VDI no. 4.35: with lowered support arms: + 54 mm.
- VDI no. 5.1: with Efficiency performance package without operator restraint system: 6.0 / 6.0 km/h; with operator restraint system: 9.0 / 9.0 km/h.
- VDI no. 5.3: with ZZ / DZ mast: the lowering speed in free lift is below the specified values.
- VDI no. 5.8: the values in the table relate to the rated load (1.5). With maximum load in the support arm lift (1.5.2): max. gradeability laden = 5%.

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 fork lift trucks meet European safety requirements.

CE

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