

Truck width of only 830 mm

Narrow working aisle width for applications where space is limited

Ergonomic sideways seat position for excellent visibility

Multifunction lever for effortless operation without the need to reach round



ESC 213–216/Z13–Z16

Electric sideways seat stacker (1250, 1600 kg)

The Jungheinrich electric sideways seat stackers ESC 213–216 are ideally suitable for longer transport distances during stacking and retrieval. With its width of only 830 mm and short working aisle width, the ESC shows particular strength in applications where space is limited and in block storage operations.

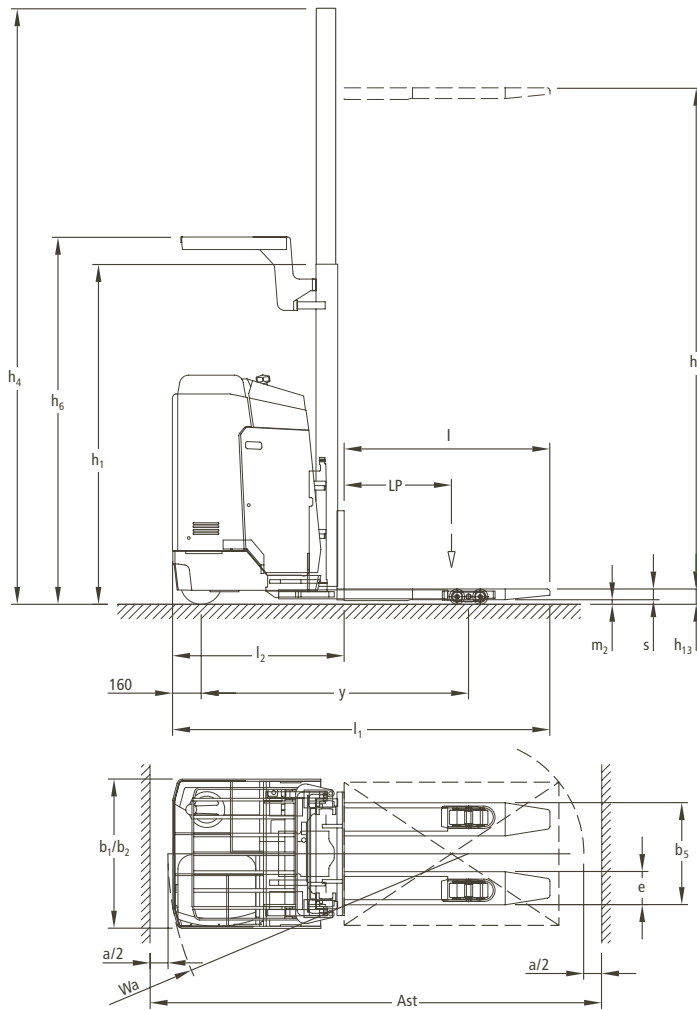
A comfortable sideways sitting position provides the operator with excellent visi-

bility which is an advantage during frequent change of direction. Adjustable foot well in height and tilt, means that the ESC can be adapted to operators of varied heights.

All travel and lift functions are carried out via the multifunction lever without the need to reach round. In addition, the ESC 214–216 operates with ease over uneven floors with initial lift.

Powerful travel and lift motors ensure efficient travel characteristics and high lift speeds. Added to this are the advantages of a thoroughly robust construction. The chassis and load section are designed for rated capacities up to 1600 kg.

ESC 213-216/Z13-Z16



Mast table (mm)										
Designation	Closed height	Free lift	Lift height	Extended height	Height over protected roof	Closed height	Free lift	Lift height	Extended height	Height over protected roof
	h_1	h_2	h_3	h_4	h_6	h_1	h_2	h_3	h_4	h_6
	ESC 213/Z13					ESC 216/Z16				
Two-stage mast ZT	1950	100	2900	3380	2110	1900	100	2800	3330	2110
	2100	100	3200	3680	2090	2050	100	3100	3630	2090
	2300	100	3600	4080	2290	2250	100	3500	4030	2290
	2550	100	4100	4580	2540	2500	100	4000	4530	2540
	2650	100	4300	4780	2640	2600	100	4200	4730	2640
Two-stage mast ZZ	1900	1420	2900	3380	2110	1900	1370	2800	3330	2110
	2050	1570	3200	3680	2090	2050	1520	3100	3630	2090
	2250	1770	3600	4080	2290	2250	1720	3500	4030	2290
	2500	2020	4100	4580	2540	2500	1970	4000	4530	2540
	2600	2120	4300	4780	2640	2600	2070	4200	4730	2640
Three-stage mast DZ	1950	1467	4300	4870	2000	1950	1467	4300	4870	2000
	2250	1765	5200	5770	2290	2250	1765	5200	5770	2290

Technical data in line with VDI 2198 as at: 01/2007

Identification	1.1	Manufacturer (abbreviation)	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	1.1	
	1.2	Manufacturer's type designation	ESC 213	ESC 216	ESC 213	ESC 216	1.2	
	1.3	Drive	electric	electric	electric	electric	1.3	
	1.4	Operator type	seat	seat	seat	seat	1.4	
	1.5	Load capacity/rated load	Q (t)	1.25	1.6	1.25	1.6	1.5
	1.6	Load centre distance	c (mm)	600	600	600	600	1.6
	1.8	Load distance, centre of drive axle to fork	x (mm)	650	650	595 ¹⁾	595 ¹⁾	1.8
	1.9	Wheelbase	y (mm)	1495	1495	1440 ¹⁾	1440 ¹⁾	1.9
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	1429	1462	1535	1565
2.2		Axle loading, laden front/rear	kg	1269/2160	1281/2181	1273/2262	1283/2282	2.2
2.3		Axle loading, unladen front/rear	kg	1000/429	1023/439	982/553	1001/564	2.3
Wheels, Chassis	3.1	Tyres	polyurethane	polyurethane	polyurethane	polyurethane	3.1	
	3.2	Tyre size, front	230 x 77	230 x 77	230 x 77	230 x 77	3.2	
	3.3	Tyre size, rear	85 x 85	85 x 85	85 x 65	85 x 65	3.3	
	3.4	Additional wheels (dimensions)	180 x 65	180 x 65	180 x 65	180 x 65	3.4	
	3.5	Wheels, number front rear (x = driven wheels)	2-1x/4	2-1x/4	2-1x/4	2-1x/4	3.5	
	3.6	Tread, front	b ₁₀ (mm)	540	540	540	540	3.6
	3.7	Tread, rear	b ₁₁ (mm)	410	410	385	385	3.7
Basic Dimensions	4.2	Closed mast height	h ₁ (mm)	1950	1950	1950	1950	4.2
	4.3	Free lift	h ₂ (mm)	100	100	100	100	4.3
	4.4	Lift	h ₃ (mm)	2900	2800	2900	2800	4.4
	4.5	Height, mast extended	h ₄ (mm)	3370	3370	3330	3330	4.5
	4.6	Initial lift	h ₅ (mm)	—	—	125	125	4.6
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2110 ²⁾	2110 ²⁾	2110 ²⁾	2010 ²⁾	4.7
	4.8	Seat height/stand height	h ₇ (mm)	1000	1000	1000	1000	4.8
	4.15	Height, lowered	h ₁₃ (mm)	90	90	90	90	4.15
	4.19	Overall length	l ₁ (mm)	2130	2130	2180	2180	4.19
	4.20	Length to face of forks	l ₂ (mm)	974	974	1010	1010	4.20
	4.21	Overall width	b ₁ /b ₂ (mm)	830/—	830/—	830/—	830/—	4.21
	4.22	Fork dimensions	s/e/l (mm)	60x185x1150	65x185x1150	60x185x1150	65x185x1150	4.22
	4.25	Distance between fork-arms	b ₅ (mm)	570	570	570	570	4.25
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30	30	20	20	4.32
	4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm)	2230 ³⁾	2230 ³⁾	2285 ⁵⁾	2285 ⁵⁾	4.33
4.34	Aisle width for pallets 800x1200 lengthways	Ast (mm)	2430 ⁴⁾	2430 ⁴⁾	2485 ⁵⁾	2485 ⁵⁾	4.34	
4.35	Turning radius	Wa (mm)	1515	1595	1613	1663	4.35	
Performance Data	5.1	Travel speed, laden/unladen	km/h	6.8/7.8	6.8/7.2	6.8/7.8	6.8/7.8	5.1
	5.2	Lift speed, laden/unladen	m/s	0.18/0.26	0.14/0.22	0.18/0.26	0.14/0.22	5.2
	5.3	Lowering speed, laden/unladen	m/s	0.40/0.41	0.49/0.44	0.49/0.44	0.49/0.44	5.3
	5.8	Max. gradeability, laden/unladen	%	5 / 12	5/12	5/12	5/12	5.8
	5.10	Service brake		electromagnetic	electromagnetic	electromagnetic	electromagnetic	5.10
Electric engine	6.1	Drive motor rating S ₂ 60 min.	kW	2.0	2.0	2.0	2.0	6.1
	6.2	Lift motor rating at S ₃ 15%	kW	3.0	3.0	3.0	3.0	6.2
	6.4	Battery voltage, nominal capacity K ₅	V/Ah	24/420	24/420	24/420	24/420	6.4
	6.5	Battery weight	kg	370	370	370	370	6.5
	Others	8.1	Type of drive control		SpeedControl	SpeedControl	SpeedControl	SpeedControl

- 1) load section lowered: + 55 mm
2) see mast table
3) diagonal according to VDI: + 345 mm
4) diagonal according to VDI: + 130 mm
5) diagonal according to VDI: + 319 mm
6) diagonal according to VDI: + 120 mm

Make use of the advantages

Powerful drive

The ESC is equipped with a powerful, high-wattage 2.0 kW shunt-wound motor with very a positive operating ratio.

Comfortable operation and control

Safe speed regulation with SpeedControl. SpeedControl ensures excellent safety and effortless control of travel speed in any situation.

- Roll-back protection on gradients due to automatically activated brake.
- Constant travel speed on upward and downward gradients.



Ergonomic operating unit



ESC Z13 with Initial Lift



Ideal for utilisation in narrow working aisles

- Energy reclamation through regenerative braking.
- Smooth operation.
- Adjustment of acceleration and braking parameters.
- Travel and lift control via multifunction lever.
- Electric steering.

Productivity-enhancing ergonomics

The sideways sitting position ensures excellent visibility and prevents neck problems caused by frequent travel direction change. Various depositing facilities (pencil holder, parts holder and paper compartment) create order and a safety switch in the foot well ensures maximum safety.

- Comfort seat with weight adjustment.
- Upholstered armrest.
- Padded knee area.

Powerful battery

3 EPZS 420/465 Ah.

Reduced maintenance

- Easily removable panelling.
- Sideways battery removal on rollers.

Narrow truck with high manoeuvrability

- With a truck width of only 830 mm, the ESC is ideal for applications in narrow aisles and in block storage.
- Short working aisle width and well protected operator position for optimum utilisation in narrow working aisles.

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