

950 mm truck width for comfortable legroom

Low working aisle width for operation in confined storage areas

Ergonomic sideways seat position for fatigue-free operation

Multifunction lever for effortless operation



ESC 316/316z

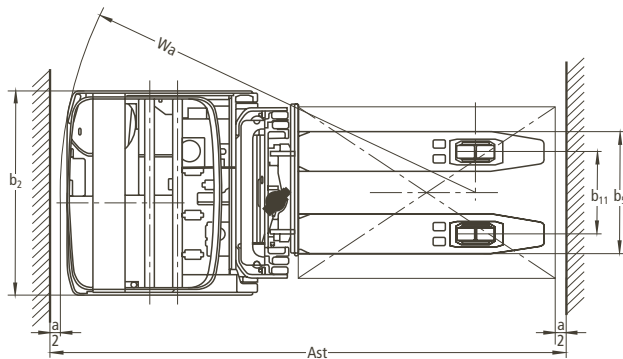
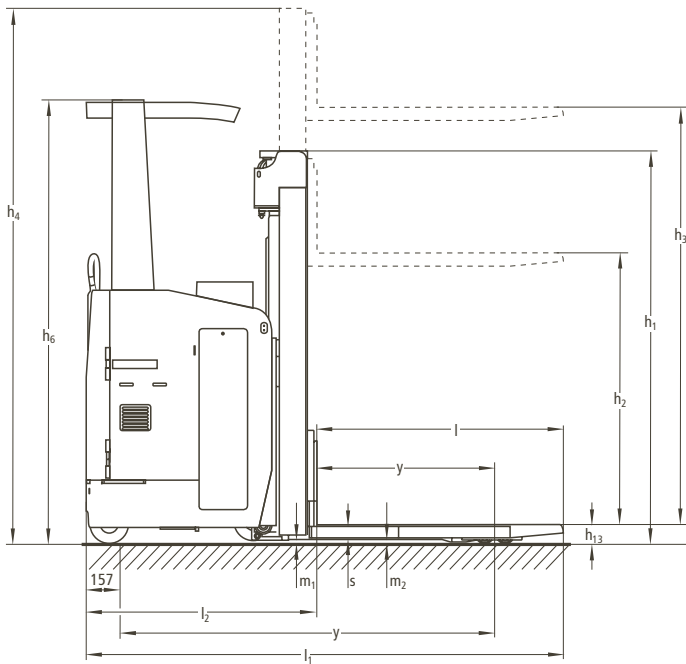
Electric sideway seat stacker (1600 kg)

The Jungheinrich electric sideway seat stackers ESC 316/316z are ideally suitable for longer transport distances during stacking and retrieval. Designed purely as 950 mm wide sit-down trucks, they are also extremely comfortable for larger operators. With its narrow aisle width requirement, the ESC shows its special

aptitude in confined storage areas. The comfortable sitting position crossways to the travel direction provides the operator with excellent visibility, an advantage particularly useful for frequent changes of direction. All travel and lift functions are carried out with the multifunction lever without the need to reach round.

Equipped with InitialLift, the ESC also copes effortlessly with uneven floors. Powerful drive and lift motors ensure efficient travel characteristics and high lift speeds. Added to this are the advantages of a thoroughly robust construction: chassis and load section are designed for rated capacities up to 1600 kg.

ESC 316/316z



Standard mast designs ESC 316/316z (mm)

Designation	Closed height	Free lift	Lift height	Extended height	Height above overhead guard
	h_1	h_2	h_3	h_4	h_6
Two-stage mast ZT	1750	100	2400	2927	2072
	1850	100	2600	3127	2072
	1950	100	2800	3327	2072
	2100	100	3100	3627	2072
	2300	100	3500	4027	2072
	2450	100	3800	4327	2072
	2550	100	4000	4527	2072
Two-stage mast ZZ	2650	100	4200	4727	2072
	1700	1173	2400	2927	2072
	1900	1373	2800	3327	2072
	2050	1523	3100	3627	2072
	2250	1723	3500	4027	2072
	2500	1973	4000	4527	2072
Three-stage mast DZ	2600	2073	4200	4727	2072
	1830	1306	3990	4515	2072
	1900	1376	4200	4727	2072
	2030	1506	4600	5125	2072
	2250	1726	5250	5775	2072

Technical Data in line with VDI 2198 as at: 04/2008

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich	Jungheinrich	1.1
	1.2	Manufacturer's type designation		ESC 316	ESC 316z	1.2
	1.3	Drive		electric	electric	1.3
	1.4	Operator type		seat	seat	1.4
	1.5	Load capacity/rated load	Q (t)	1.6	1.6	1.5
	1.6	Load centre distance	c (mm)	600	600	1.6
	1.8	Load distance, centre of drive axle to fork	x (mm)	830	830	1.8
	1.9	Wheelbase	y (mm)	1710	1750/1680 ¹⁾	1.9
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	1856	1856
2.2		Axle loading, laden front/rear	kg	1276/2180	1390/2066	2.2
2.3		Axle loading, unladen front/rear	kg	1256/600	1274/582	2.3
Wheels, Chassis	3.1	Tyres		polyurethane	polyurethane	3.1
	3.2	Tyre size, front	mm	230x77	230x77	3.2
	3.3	Tyre size, rear	mm	85x85	85x65	3.3
	3.4	Additional wheels (dimensions)	mm	180x65	180x65	3.4
	3.5	Wheels, number front rear (x = driven wheels)		2-1x/4	2-1x/4	3.5
	3.6	Tread, front	b ₁₀ (mm)	645	645	3.6
	3.7	Tread, rear	b ₁₁ (mm)	385	385	3.7
Basic Dimensions	4.2	Closed mast height	h ₁ (mm)	1750	1750	4.2
	4.3	Free lift	h ₂ (mm)	100	100	4.3
	4.4	Lift (standard mast)	h ₃ (mm)	2400	2400	4.4
	4.5	Height, mast extended	h ₄ (mm)	2927	2927	4.5
	4.6	Initial lift	h ₅ (mm)	–	120	4.6
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2072	2072	4.7
	4.8	Seat height/stand height	h ₇ (mm)	1010	1010	4.8
	4.15	Height, lowered	h ₁₃ (mm)	90	90	4.15
	4.19	Overall length	l ₁ (mm)	2138	2225	4.19
	4.20	Length to face of forks	l ₂ (mm)	988	1075	4.20
	4.21	Overall width	b ₁ /b ₂ (mm)	–/950	–/950	4.21
	4.22	Fork dimensions	s/e/l (mm)	65 x 185 x 1150	60 x 185 x 1150	4.22
	4.25	Distance between fork-arms	b ₅ (mm)	570	570	4.25
	4.31	Ground clearance, laden, below mast	m ₁ (mm)	30	20	4.31
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	30	20	4.32
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2470 ²⁾	2508/2430 ¹⁾²⁾	4.34	
4.35	Turning radius	Wa (mm)	1900	1938/1860 ¹⁾	4.35	
Performance Data	5.1	Travel speed, laden/unladen	km/h	7.9/9.2	7.9/9.2	5.1
	5.2	Lift speed, laden/unladen	m/s	0.14/0.3	0.14/0.3	5.2
	5.3	Lowering speed, laden/unladen	m/s	0.40/0.30	0.40/0.30	5.3
	5.8	Max. gradeability, laden/unladen	%	7/14	7/14	5.8
	5.10	Service brake		electromagnetic	electromagnetic	5.10
Electric Engine	6.1	Drive motor rating S ₂ 60 min.	kW	2	2	6.1
	6.2	Lift motor rating at S ₃ 10%	kW	3	3	6.2
	6.3	Battery acc. to DIN 43531 / 35/36 A, B, C, no		no	no	6.3
	6.4	Battery voltage, nominal capacity K _s	V/Ah	24/465	24/465	6.4
	6.5	Battery weight	kg	360	360	6.5
Others	8.1	Type of drive control		SpeedControl	SpeedControl	8.1
	8.4	Sound level at the driver's ear according to EN 12053	dB(A)	68	68	8.4
1) lowered/raised 2) diagonal acc. to VDI: + 175 mm						

This specification sheet according to VDI regulation 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipment, etc. could produce other values. Right reserved for technical changes and improvements.

Make use of the advantages

Powerful drive motor

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

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 with automatically activated brake.
- Constant travel speed up and down gradients.
- Energy reclamation with regenerative braking.
- Particularly smooth, stepless travel characteristics.
- Adjustment of acceleration and brake parameters.
- Travel and lift control with multifunction lever.
- Electric steering.

Productivity-enhancing ergonomics

The operator driving position being sideways to the travel direction ensures opti-



Ergonomic operating unit

mum visibility and effectively prevents neck problems due to frequent travel direction change. Various depositing facilities (pencil holder, parts tray, paper compartment) create order and a safety dead-man footswitch in the foot well ensure maximum safety.

- Comfort seat with weight adjustment.
- Upholstered armrest.
- Comfortable sitting position also for larger operators in a generously proportioned workspace.



Generous legroom

Powerful battery

- 3 EPzS 465 Ah.

Reduced maintenance

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



ESC 316z with initial lift

Versatile utilisation and excellent manoeuvrability

- As a variant with additional lift, the ESC 316z can lift the support arms independent of the forks making this truck perform effortlessly on uneven floors.
- Narrow working aisle width and well-protected operator position for optimum utilisation in narrow working aisles.

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