

930 mm truck width for comfortable legroom

High speed and acceleration improving productivity

Ergonomic sideways seated position for fatigue-free travel

Multifunction lever for effortless operation

3-phase AC technology for dynamic movement operations



ESC 316 /316z

Electric sideways-seated truck (1,600 kg)

Our ESC 316(z) electric sideways seated stackers are ideally suited for longer transport distances during stacking and retrieval.

With a width of 930 mm, and as a true sideways seated truck, the ESC 316 offers its operator maximum comfort.

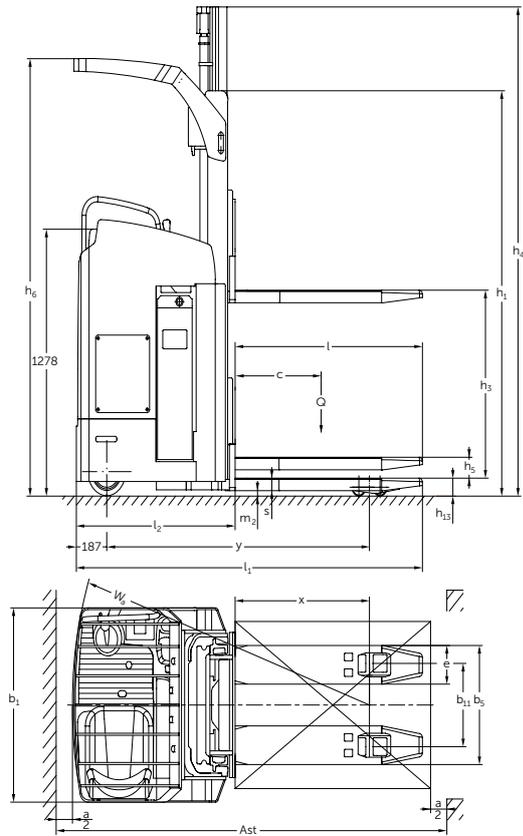
The comfortable sideways seating position provides excellent visibility. An advantage which comes into its own during frequent changes of direction. The individual height adjustment of the foot-well provides a relaxed work environment for operators of varied heights.

Other advantages include:

- Powerful, innovative 2.8 kW three-phase AC drive motor for high drive and acceleration performance.

- High residual capacities and powerful lift motor.
 - Extremely durable frame for exceptionally high operational demands.
 - Display with steering position display and selection of travel programs (optional).
 - Electric steering for easy manoeuvring with a few turns of the steering wheel.
 - Excellent energy management for low operating costs.
- Thanks to its initial lift, the ESC 316z is also able to cope effortlessly with uneven floors. All drive and lift functions are performed using the multifunction lever within easy reach. The robust design also offers particular advantages: Frame and load section are designed for rated capacities up to 1600 kg.

ESC 316 /316z



Standard mast designs ESC 316 /316z

	Lift h_3	Lowered mast height h_1	Free lift h_2	Extended mast height h_4	Height of overhead guard h_6
	(mm)	(mm)	(mm)	(mm)	(mm)
Duplex ZT	2800	1995	100	3372	2093
	3100	2145	100	3672	2243
	3500	2345	100	4072	2288
	4000	2595	100	4572	2288
Duplex ZZ	4200	2695	100	4772	2288
	2800	1945	1373	3372	2093
	3100	2095	1523	3672	2243
	3500	2295	1723	4072	2288
Triplex DZ	4000	2545	1973	4572	2288
	4200	2645	2073	4772	2288
	4200	1945	1376	4770	2093
	5250	2295	1726	5820	2288
	6200	2615	2046	6790	2288

Technical data in line with VDI 2198

			Jungheinrich			
			ESC 316	ESC 316z		
Identification	1.1	Manufacturer (abbreviation)				
	1.2	Model				
	1.3	Drive		Electric		
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		seat		
	1.5	Load capacity/rated load	Q t	1.6		
	1.6	Load centre distance	c mm	600		
	1.8	Load distance	x mm	860	874 ²⁾	
	1.9	Wheelbase	y mm	1,648	1,692 ²⁾	
	Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	1,746	1,685
2.2		Axle load with load front/rear	kg	1,459 / 1,228	1,432 / 1,857	
2.3		Axle load without load front/rear	kg	1,891 / 518	1,190 / 495	
Wheels / frame	3.1	Tyres		PU		
	3.2	Tyre size, front	mm	Ø 230 x 77		
	3.3	Tyre size, rear	mm	Ø 85 x 85		
	3.4	Additional wheels (dimensions)	mm	Ø 140 x 54		
	3.5	Wheels, number front/rear (x = driven wheels)		2 - 1x / 4		
	3.6	Tread width, front	b ₁₀ mm	645		
	3.7	Tread width, rear	b ₁₁ mm	385		
Basic dimensions	4.2	Mast height (lowered)	h ₁ mm	1,995		
	4.3	Free lift	h ₂ mm	100		
	4.4	Lift	h ₃ mm	2,800		
	4.5	Extended mast height	h ₄ mm	3,422		
	4.6	Initial lift	h ₅ mm	0	125	
	4.7	Height of overhead guard	h ₆ mm	2,095 ³⁾		
	4.8	Seat height/stand height	h ₇ mm	950		
	4.15	Height, lowered	h ₁₃ mm	90		
	4.19	Overall length	l ₁ mm	2,125	2,155	
	4.20	Length to face of forks	l ₂ mm	975	1,005	
	4.21	Overall width	b ₁ /b ₂ mm	930	930 / 930	
	4.22	Fork dimensions	s/e/l mm	60 / 185 / 1,150		
	4.25	Width across forks	b ₅ mm	570		
	4.31	Floor clearance with load under mast	m ₁ mm	30	0	
	4.32	Ground clearance, centre of wheelbase	m ₂ mm	30	25	
4.33	Aisle width for pallets 1000 × 1200 sideways	Ast mm	2,310	2,383		
4.34	Aisle width for pallets 800 × 1200 lengthways	Ast mm	2,360 ¹⁾	2,433 ¹⁾		
4.35	Turning radius	W _a mm	1,863	1,907 ²⁾		
Performance data	5.1	Travel speed, laden/unladen	km/h	9.1 / 9.1		
	5.2	Lift speed, laden/unladen	m/s	0.13 / 0.24	0.14 / 0.23	
	5.3	Lowering speed, laden/unladen	m/s	0.42 / 0.42	0.42 / 0.38	
	5.8	Max. gradeability, laden/unladen	%	7 / 12		
	5.10	Service brake		electric		
Electrics	6.1	Drive motor, output S2 60 min.	kW	2.8		
	6.2	Lift motor, output at S3 15%	kW	3.0		
	6.3	Battery as per DIN 43531 / 35/36 A, B, C, no		no		
	6.4	Battery voltage/nominal capacity K5	V/Ah	24 / 465		
	6.5	Battery weight	kg	380		
	6.6	Energy consumption according to VDI cycle	kWh/h	2.5		
Misc.	8.1	Type of drive control		AC SpeedControl		

¹⁾ Diagonal in accordance with VDI: + 190 mm

²⁾ Load section raised: - 78 mm

³⁾ See mast table

Benefit from the advantages



Productivity-enhancing ergonomics

The arrangement of the operator workstation, sideways on to the direction of travel, ensures optimum visibility and reduces potential neck complaints due to frequent changes in direction. A safety switch in the foot-well ensures maximum safety.

- 930 mm truck width for comfortable legroom.
- Comfortable seat with adjustment for body weight.
- Padded armrest.
- Padded knee area.
- Grab handle for safe entry (also serves as the mounting point for storage or for a radio data terminal).

Easy operation and excellent all-round visibility

- Operation of all drives and lift functions by multifunction lever within easy reach.
- Proportional hydraulics for precise load positioning.
- Smooth electric steering.
- Protected seating position within the enclosed truck profile.

- Excellent all-round visibility with no obstructive struts; good view through the mast and overhead guard.

Innovative 3-phase AC technology

Better performance simultaneously combined with reduced operating costs. Make the most of these advantages:

- High level of efficiency with excellent energy management.
- Powerful acceleration.
- Rapid change in direction of travel.
- No carbon brushes – maintenance-free drive motor.
- Two-year warranty on the drive motor.

Comfortable and safe operation

Reliable speed regulation by electronic SpeedControl. SpeedControl ensures maximum safety and effortless control of speed in all situations.

- Roll-back protection on gradients with automatically activated brake.
- Constant travel speed on gradients/descents.
- Energy recovery with regenerative braking.
- Particularly smooth stepless operation.

Versatile utilisation and excellent manoeuvrability

- As a variant with additional lift, the ESC 316z can lift the support arms independently of the forks. This allows the truck to perform effortlessly on uneven floors.
- Short working aisle width and well protected operator position for outstanding operation in narrow working aisles.

Powerful battery

- 3 PzS 465 Ah.
- Lateral battery exchange on rollers.

Robustness and ease of servicing

- Easy access to the controller and electronics.
- Side opening to the drive compartment.
- Robust, enclosed frame.

Additional equipment

- Various storage options.
- Heated seat.
- Load guard.
- Display (travel direction, steering setting, battery status, operating hours, time of day, travel programs).

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The German production facilities in Norderstedt, Moosburg and Landsberg are certified. **ISO 9001**
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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