Truck width of 930 mm

High speed and
acceleration values

Ergonomic seating position

Multifunctional lever for
effortless operation

3-phase AC technology
for dynamic movement

ESC 316 /316z

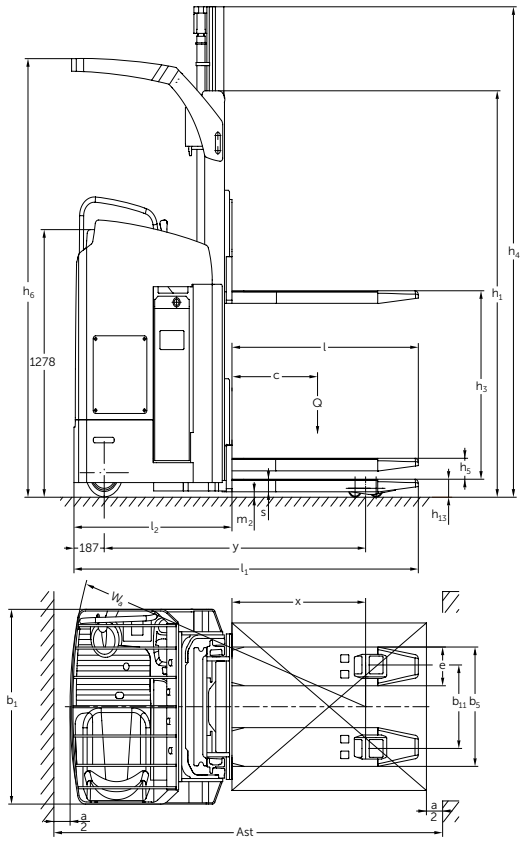
Electric sideways-seated stacker (1,600 kg)

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. This is a great advantage, especially where frequent changes of direction are required. The individual height adjustment of the foot-well provides a relaxed work environment for operators of different heights.
Other advantages include:

- Powerful, innovative 2.8 kW 3-phase drive motor for high acceleration and performance.
- High residual capacities and powerful lift motor.
- Extremely durable frame for exceptionally high operational demands.
- Display showing steering position and travel program selection (optional).
- Electric steering for easy manoeuvring with a few turns of the steering wheel.
- Low operating costs due to excellent energy management.

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 multifunctional lever within easy reach.
In addition, there are the advantages of the sturdy design. Frame and load sections are designed for rated speeds up to 1600 kg.

ESC 316 /316z



Standard mast designs ESC 316 /316z					
	Lift h_3 (mm)	Lowered mast height h_1 (mm)	Free lift h_2 (mm)	Extended mast height h_4 (mm)	Height of overhead guard h_6 (mm)
Duplex ZT	2800	1995	100	3372	2093
	3100	2145	100	3672	2243
	3500	2345	100	4072	2288
	4000	2595	100	4572	2288
	4200	2695	100	4772	2288
Duplex ZZ	2800	1945	1373	3372	2093
	3100	2095	1523	3672	2243
	3500	2295	1723	4072	2288
	4000	2545	1973	4572	2288
	4200	2645	2073	4772	2288
Triplex DZ	4200	1945	1376	4770	2093
	5250	2295	1726	5820	2288
	6200	2615	2046	6790	2288

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)			Jungheinrich		
	1.2	Model			**ESC 316**	**ESC 316z**	
	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 loading, laden front/rear		kg	1,459 / 1,228	1,432 / 1,857	
	2.3	Axle loading, unladen 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/standing 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 crossways	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 as per VDI: + 190 mm
[2)] Load section raised: - 78 mm
[3)] See mast table

In accordance with VDI Guideline 2198 this data sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

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. Other ergonomic characteristics are:
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 drive and lift functions by multifunctional 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.
Advantages:

- High efficiency levels with excellent energy management.
- Powerful acceleration.
- Rapid direction change.
- No carbon brushes – maintenance-free drive motor.
- 2-year warranty on the drive motor.

Comfortable and safe operation

Speed regulation with speedCONTROL impulse control system ensures maximum safety and simple travel speed control 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, thereby effortlessly overcoming uneven floors.
- Short working aisle width and well protected operator position for optimum operation in narrow working aisles.

Long operating times available with lead-acid battery

- Powerful battery with 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).

Lithium-ion technology

- High degree of availability thanks to extremely short charging times.
- No battery exchange required.
- Cost savings due to longer service life and low maintenance compared with lead-acid batteries.
- No charging rooms and ventilation required as there is no build up of gas.
- Longer service life with 5-year Jungheinrich guarantee.

Jungheinrich UK Ltd.

Head Office:
Sherbourne House
Sherbourne Drive
Tilbrook
Milton Keynes MK7 8HX
Telephone 01908 363100
Fax 01908 363180

info@jungheinrich.co.uk
www.jungheinrich.co.uk

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

Jungheinrich fork lift trucks meet European safety requirements. CE

JUNGHEINRICH

T_ESC 316 /316z_022018_en_UK_000