Multi-pallet transport
of up to three pallets

Ergonomic operator
seat layout

180° / 360° steering

High travel speeds

3-phase AC technology
(48 V) for high torques and
dynamic movement

ESE 420/430

Electric sideways-seated pallet truck (2,000/3,000 kg)

The ESE 420/430 electric sideways seated pallet trucks are ideal for multi-pallet transport over long distances. Their 48-volt 3-phase AC motors ensure a smooth starts, powerful acceleration and high maximum speeds. The best basis for high throughput rates.

This high performance level is extremely easy to achieve and offers very high levels of safety: Travel speed, brakes and deadman switch are all controlled by easily reached pedals. The lift functions are operated using the SOLO-PILOT control lever, which is readily to hand.
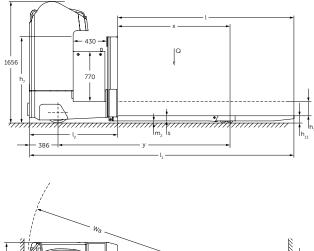
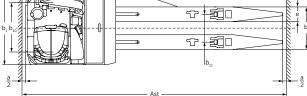The optional height-adjustable footplate and the adjustable

steering wheel ensure comfortable seating positions for all operators. The steering can be switched between 180° and 360°. The 360° steering mode facilitates manoeuvring by allowing seamless changes of direction with only a few turns of the steering wheel. The changeover between forwards and reverse can also be performed simply by pressing a button. The large display offers a quick overview of the steering setting, battery status and the available travel programs.

With battery capacities of up to 620 Ah and a robust design, the ESE 420/430 is the ideal truck for intensive applications.

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ESE 420/430

Technical data in line with VDI 2198

					ESE 420	ESE 430
Identification	1.1	Manufacturer (abbreviation)			Jungheinrich	
	1.2	Model			**ESE 420**	**ESE 430**
	1.3	Drive			Electric	
	1.4	Manual, pedestrian, stand-on, seated, order picker operation			seat	
	1.5	Load capacity/rated load	Q	t	2	3
	1.6	Load centre distance	c	mm	1,200	
	1.8	Load distance	x	mm	1,840[3]	1,480[3]
	1.9	Wheelbase	y	mm	2,260[3]	2,211[3]
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	2,395	2,475
	2.2	Axle load with load front/rear		kg	2,561 / 1,900	2,890 / 2,980
	2.3	Axle load without load front/rear		kg	1,886 / 590	1,916 / 559
Wheels / frame	3.1	Tyres			Vulkollan	
	3.2	Tyre size, front		mm	Ø 343 x 114	
	3.3	Tyre size, rear		mm	Ø 85 x 80	Ø 90 x 92
	3.4	Additional wheels (dimensions)		mm	Ø 285 x 100	
	3.5	Wheels, number front/rear (x = driven wheels)			2-1x/4	
	3.6	Tread width, front	b_{10}	mm	604	
	3.7	Tread width, rear	b_{11}	mm	380	
Basic dimensions	4.4	Lift	h_3	mm	115	
	4.8	Seat height/stand height	h_7	mm	1,200	
	4.15	Height, lowered	h_{13}	mm	90	
	4.19.4	Total length including fork length	l_1	mm	3,625	
	4.20	Length to face of forks	l_2	mm	1,225	
	4.21	Overall width	b_1/b_2	mm	1,000	
	4.22	Fork dimensions	s/e/l	mm	60 / 180 / 2,400	70 / 200 / 2,400
	4.25	Width across forks	b_5	mm	560	580
	4.32	Ground clearance, centre of wheelbase	m_2	mm	30	20
	4.34	Aisle width for pallets 800 × 1200 lengthways	Ast	mm	3,865[1]	3,953[2]
	4.35	Turning radius	W_a	mm	3,105[3]	2,750[3]
Performance data	5.1	Travel speed, laden/unladen		km/h	13 / 14	
	5.2	Lift speed, laden/unladen		m/s	0.056 / 0.06	
	5.3	Lowering speed, laden/unladen		m/s	0.052 / 0.05	
	5.7	Gradeability laden/unladen		%	6 / 15	
	5.10	Service brake			electric	
Electrics	6.1	Drive motor, output S2 60 min.		kW	6.9	
	6.2	Lift motor, output at S3 15%		kW	3.0	
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no			A	
	6.4	Battery voltage/nominal capacity K5		V/Ah	48 / 620	
	6.5	Battery weight		kg	945	
Misc.	8.1	Type of drive control			Mosfet / AC	

[1] diagonal according to VDI: + 128 mm
[2] Diagonal travel according VDI: + 83 mm
[3] Load section lowered: + 89 mm

In accordance with VDI Guideline 2198 this specification 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

Controls

Comfortable seated position with generous

Safe entry with low step height and grab handle

Greater efficiency with three-phase AC technology
Powerful three-phase AC technology offers a whole range of advantages over conventional DC motors:
- Powerful acceleration.
- No carbon brushes – maintenance-free drive motor.
- Two-year warranty on the drive motor.

Ergonomic cockpit
The operator position provides ideal working conditions for relaxed performance. Its strengths:
- Adjustable seat (seating position / body weight) for all operators.
- Footplate with adjustable rake (optional).
- Important controls within easy reach.
- Generous space.
- 180°/360° three-phase AC steering with optimised steering wheel position.
- Steering wheel adjustment.

Easy operation with SOLO-PILOT
The control lever for activating all hydraulic functions and also selecting the direction of travel and sounding the horn.
- All controls are within the operator's field of vision and are clearly allocated to a single function.
- Precise operation by sensitive activation of all functions.
- Comfortable armrest.

Easy-to-read operator display
High-quality control instruments displaying the most important operating data.
- Display of direction of travel and wheel position.
- Steering setting.
- Battery status with residual time display.
- Speed.
- Elapsed distance.

- A choice of three travel programs for individual adaptation to any needs.
- Operating hours and time of day.

Powerful battery
4 PzS 620 Ah.

Robustly built for intensive applications
- Robust frame for continuous use at full rated load.
- Torsion-resistant forks manufactured with strong reinforced steel. Available in a wide variety of versions.

Reduced maintenance cost
Easy-service components ensure reduced long-term operating costs:
- Maintenance-free 3-phase AC drive motor with no carbon brushes.
- Easy to service with outstanding accessibility to all components.

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

Jungheinrich fork lift trucks meet European safety requirements. CE

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