

Multi-pallet transportation
(of up to 3 pallets)

Ergonomic operator
position layout

180°/360° steering

High travel speeds and
3-phase AC technology

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



ESE 420/430

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

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

This high performance level is extremely easy to achieve and with high levels of safety: The travel speed, brakes and dead-man switch are all controlled by easily reached pedals. The lift functions are operated using the soloPILOT 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 forward 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 are the ideal trucks for intensive applications.

**JUNGHEINRICH**

Technical data in line with VDI 2198

				Jungheinrich		
				ESE 420	ESE 430	
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	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	
2.2		Axle loading, laden front/rear		kg		
2.3		Axle loading, unladen front/rear		kg		
Wheels / frame	3.1	Tyres		Vulkollan		
	3.2	Tyre size, front		Ø 343 x 114		
	3.3	Tyre size, rear		Ø 85 x 80	Ø 90 x 92	
	3.4	Additional wheels (dimensions)		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		
	4.8	Seat height/standing height		h ₇ mm		
	4.15	Height, lowered		h ₁₃ mm		
	4.19.4	Total length including fork length		l ₁ mm		
	4.20	Length to face of forks		l ₂ mm		
	4.21	Overall width		b ₁ /b ₂ mm		
	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 x 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		
	5.2	Lift speed, laden/unladen		m/s		
	5.3	Lowering speed, laden/unladen		m/s		
	5.7	Gradeability, laden/unladen		%		
	5.10	Service brake				
Electrics	6.1	Drive motor, output S2 60 min.		kW		
	6.2	Lift motor, output at S3 15%		kW		
	6.3	Battery as per DIN 43531/35/36 A, B, C, no		A		
	6.4	Battery voltage/nominal capacity K5		V/Ah		
	6.5	Battery weight		kg		
Misc.	8.1	Type of drive control		Mosfet / AC		

¹⁾ Diagonal as per VDI: + 128 mm

²⁾ Diagonal as per VDI: + 83 mm

³⁾ Load section lowered: + 89 mm

Benefit from the advantages



Controls



Comfortable seated position with generous legroom



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 compared with conventional DC motors:

- Powerful acceleration.
- No carbon brushes and a maintenance-free drive motor ensure a high degree of operational availability.
- 2-year warranty on the drive motor.

Ergonomic cockpit

The operator position provides the ideal working conditions for relaxed and high 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 soloPILOT

soloPILOT is the control lever for activating all hydraulic functions and also selecting the direction of travel and activation of the horn.

- All controls are within the operator's field of vision and a single function is clearly assigned to each one.
- Precision operation is made possible by the sensitive activation of all functions.
- Comfortable armrest.

Easy-to-read operator display

High-quality control instrument for 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.
- 3 adjustable travel programs for individual adjustment to any requirements.
- 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.

Lower maintenance costs

Lower operating costs in the long term:

- Maintenance-free 3-phase AC drive motor without carbon brushes.
- Easy to service with outstanding accessibility to all components.

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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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