

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 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 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 dead-man 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.

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
	1.6	Load centre distance	c	mm
	1.8	Load distance	x	mm
	1.9	Wheelbase	y	mm
	2			
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	
	2.2	Axle load with load front/rear	kg	
	2.3	Axle load without load front/rear	kg	
Wheels / frame	3.1	Tyres	Vulkollan	
	3.2	Tyre size, front	mm	
	3.3	Tyre size, rear	mm	
	3.4	Additional wheels (dimensions)	mm	
	3.5	Wheels, number front/rear (x = driven wheels)		
	3.6	Tread width, front	b ₁₀	mm
	3.7	Tread width, rear	b ₁₁	mm
Basic dimensions	4.4	Lift	h ₃ mm	
	4.8	Seat height/stand 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	
	4.25	Width across forks	b ₅ mm	
	4.32	Ground clearance, centre of wheelbase	m ₂ mm	
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	
4.35	Turning radius	W _a mm		
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		

¹⁾ diagonal according to VDI: + 128 mm

²⁾ Diagonal travel according VDI: + 83 mm

³⁾ Load section lowered: + 89 mm

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.



Earth Moving and Material Handling Equipment
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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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