

Robust tow tractor
with sprung wheels for
indoor / outdoor use

Comfortable operator seat

Automatically engaging
parking brake, no rolling
back on inclines

SpeedControl for
driving on slopes

High energy efficiency levels
due to maintenance-free
3-phase AC drive motor

Driver's cab (optional)



EZS 570/580/590

Electric tow tractor (7,000/8,000/9,000 kg)

Robust, versatile and economical: These are the advantages offered by our EZS 570, 580 and 590 electric tow tractors. When used in warehouses or outside – these high-performance tow tractors with tow load capacities of up to 9 t are suitable for any application.

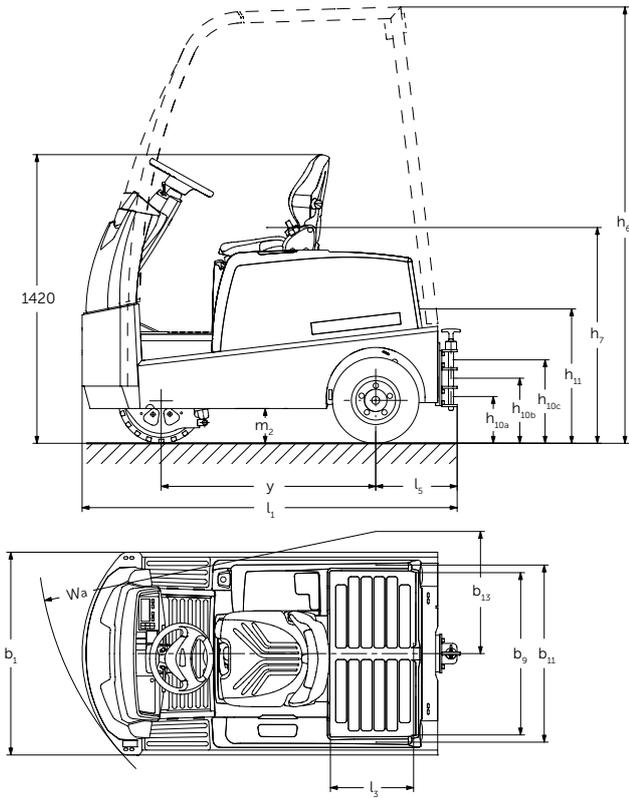
But that is not all: In addition to outstanding ride comfort and safety, our Series 5 tow tractors also offer increased performance with low energy consumption:

- New comfort suspension: The fully cushioned suspension with springs and shock absorbers on all wheels does not just protect the operator's back but also the truck.
- Robust construction: The powerful steel frame and hard-wearing moulded parts last for the lifetime of a tow tractor in daily operation.
- LED lighting: The optional lighting is environmentally friendly and not sensitive to vibrations.
- Easily accessible trailer coupling: From a seated position, the coupling is clearly visible and easy to reach. Different couplings are available.

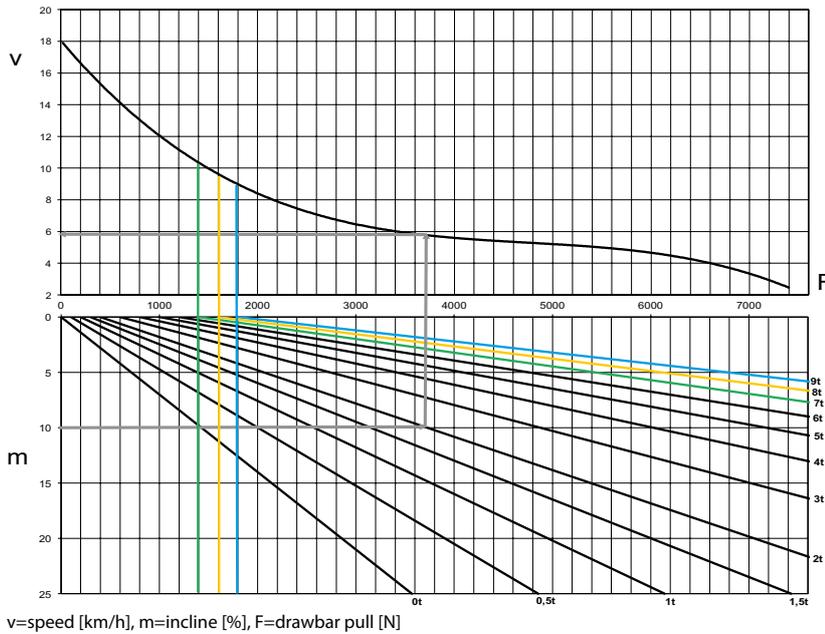
- Generous and comfortable operator position: The low foot-step makes it easy to climb aboard. The spacious foot-well provides ample legroom. The steering wheel, travel direction switch and indicator lever are all easy to reach and form an ergonomic unit.
- Automatic parking brake with roll-back protection: When the truck comes to a halt, the tow tractor and trailer are automatically secured on slopes.
- 48-V 3-phase AC motor provides powerful acceleration and high top speed.
- Regenerative braking: The braking energy is fed back into the battery, thereby extending its operating period.
- Fast battery changing: The battery can either be lifted out by crane or optionally replaced from the side.
- Economic use of pool batteries: Use of the 625-Ah battery, which can also be used in the 48-V front loading trucks, in the XL version.

Conclusion: Sophisticated ergonomics and technology in the form of our EZS Series 5 ensure gentle and safe working with a high degree of cost and energy efficiency.

EZS 570/580/590



Pulling ability



Example:

The EZS 570 travels on a 10% incline with a 2 t load. The EZS requires 3400 N tractive power for this and reaches approx. 6 km/h.

Note:

No continuous operation possible for EZS 570 over 1400 N.
 No continuous operation possible for EZS 580 over 1600 N.
 No continuous operation possible for EZS 590 over 1800 N.

For gradients / descents greater than 4 % it is recommended that braked trailers be used!

Technical data in line with VDI 2198

			Jungheinrich							
			EZS 570	EZS 570 XL	EZS 580	EZS 580 XL	EZS 590	EZS 590 XL		
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	7	7	8	8	9	9
	1.7	Rated tractive power	F	N	1,400	1,400	1,600	1,600	1,800	1,800
1.9	Wheelbase	y	mm	1,035	1,250	1,035	1,250	1,035	1,250	
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	1,260	1,620	1,320	1,675	1,410	1,675
	2.3	Axle load without load front/rear		kg	580 / 680	780 / 840	580 / 740	835 / 840	620 / 790	835 / 840
Wheels / frame	3.1	Tyres	SE / pneumatic							
	3.2	Tyre size, front		mm	16x6-8					
	3.3	Tyre size, rear		mm	4.00-8					
	3.5	Wheels, number front/rear (x = driven wheels)			1 / 2x					
	3.6	Tread width, front	b ₁₀	mm	0					
	3.7	Tread width, rear	b ₁₁	mm	870					
	Basic dimensions	4.7	Height of overhead guard	h ₆	mm	2,140				
4.8		Seat height/stand height	h ₇	mm	1,040					
4.12		Coupling height	h ₁₀	mm	240					
4.12.1		2nd coupling height		mm	330					
4.12.2		3. Coupling height	h ₁₀	mm	420					
4.13		loading height without load	h ₁₁	mm	650	650	650	650	640	640
4.16		loading area length	l ₃	mm	400					
4.17		Overhang length	l ₅	mm	375					
4.18		Loading area width	b ₉	mm	795					
4.19		Overall length	l ₁	mm	1,813	2,035	1,813	2,035	1,813	2,035
4.21		Overall width	b ₁ /b ₂	mm	996					
4.32	Ground clearance, centre of wheelbase	m ₂	mm	160	160	160	160	130	160	
4.35	Turning radius	W _a	mm	1,620	1,860	1,620	1,860	1,620	1,860	
4.36	Smallest pivot point distance	b ₁₃	mm	600	665	600	665	600	665	
Performance data	5.1	Travel speed, laden/unladen		km/h	8.5 / 18					
	5.5	Drawbar pull w. / w.o. load		N	1,400	1,400	1,600	1,600	1,800	1,800
	5.6	Max. drawbar pull, laden/unladen		N	5,500	5,500	6,000	6,000	7,500	7,500
	5.7	Gradeability laden/unladen		%	- / - ¹⁾					
	5.8	Max. gradeability, laden/unladen		%	- / - ¹⁾					
	5.10	Service brake			hydraulic					
Electrics	6.1	Drive motor, output S2 60 min.		kW	4.5					
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no			A 43531					
	6.4	Battery voltage/nominal capacity K5		V/Ah	48 / 345	48 / 625	48 / 345	48 / 625	48 / 345	48 / 625
	6.5	Battery weight		kg	575	860	575	860	575	860
	6.6	Energy consumption according to VDI cycle		kWh/h	3.7 ²⁾	3.7 ²⁾	4.3 ²⁾	4.3 ²⁾	5.5 ²⁾	5.5 ²⁾
	Misc.	8.1	Type of drive control			Impuls/AC				
8.4		Sound pressure level at operator's ear as per EN 12053		dB (A)	57					

¹⁾ See diagram

²⁾ With nominal load

Benefit from the advantages



Reliable LED lighting (optional)



Ergonomic low step for effortless entry and exit.



Clear layout of controls ensures easy operation.



Weather protection cabin available on request

Innovative 3-phase AC technology

Jungheinrich 3-phase AC motors offer you higher performance while simultaneously reducing operating costs.

- High level of efficiency with excellent energy management.
- Powerful acceleration and high top speed, even when laden.
- Rapid change in direction of travel.
- No carbon brushes - maintenance-free drive motor.
- Two-year warranty on the drive motor.

Comfortable and safe operation

The SpeedControl impulse electronic management system and the automatic electrical braking system ensure comfortable and safe operation of the vehicle, with adjustment opportunities to suit any application:

- The fully sprung chassis with springs and shock absorber guarantees traction at all times.
- The automatic parking brake ensures that driving off is safe, even on slopes.
- The travel speed set using the accelerator is maintained in all situations.
- Energy recovery: Regenerative braking when decelerating.
- Programmable crawl speed switch allows travel at reduced speed.
- Three alternative travel programs can be set to suit every specific need.

- Seeing and being seen: Two-stage LED lights (daytime running lights, travel lights).

Optimised ergonomics

- Easy entry and exit due to the low footstep.
- Spacious operator position with large footwell.
- Ergonomic footrest for the left foot.
- Short distances from the operator position to the coupling and load.
- Highly visible and accessible coupling.
- Inching controls for simple coupling and decoupling (optional).
- Non-marking super-elastic wheels (optional).
- Well organised with many storage areas for the operator.

Rugged construction for the toughest applications

- Frame made from high-grade, 8-mm steel sheet.
- Extra-high frame apron on front cover.
- Robust LED lights: Front lights, rear lights and indicators (optional).
- Side protection with baseboards (optional).

Long operating times

Energy-efficient 3-phase AC technology and high battery capacities allow for long operating times. XL version allows to use batteries of forklift trucks (e.g. electro for-

klift EFG 213-220).

- Standard version: 3 PzS 345 Ah.
- XL version: 5 PzS 625 Ah.

Always informed

Easily read display and instruments always allows a complete overview of battery discharge indication, operation hours, speed and fault diagnostics.

- PIN activation of the vehicle (optional).
- Choice of 3 travel programmes.
- Adjustable travel parameters.
- Turtle switch.

Additional equipment (optional)

Extensive accessories for individual tailoring to your requirements:

- Inching buttons for simple coupling and decoupling.
- Lateral battery exchange for easy changing of batteries.
- Additional steel bumper.
- Holder for radio data components.
- Different couplings.
- Hydraulic or electric power connections for Jungheinrich's GTE and GTP trailers.
- Comfort charging: Charging the built-in battery with no need to open panels.
- Cabs with a variety of facilities for use outside.
- Additional options allow the tow tractor to be tailored to specific needs.
- Also available: Burden carrier based on the Series 5 EZS.

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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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