

Also suitable for outdoor applications

Comfortable operator seat

Automatic parking brake

speedCONTROL

Powerful, maintenance-free 3-phase AC drive motor



## EZS 570/580/590/5100

Electric tow tractor (7,000/8,000/9,000/10,000 kg)

Robust, versatile and economical – these are the advantages offered by our EZS 570, 580, 590 and 5100 electric tow tractors. When used in warehouses or outside – these high-performance tow tractors with tow load capacities of up to 10,000 kg are suitable for any application.

In addition to outstanding ride comfort and safety, the Series 5 tow tractors also offer increased performance with low energy consumption:

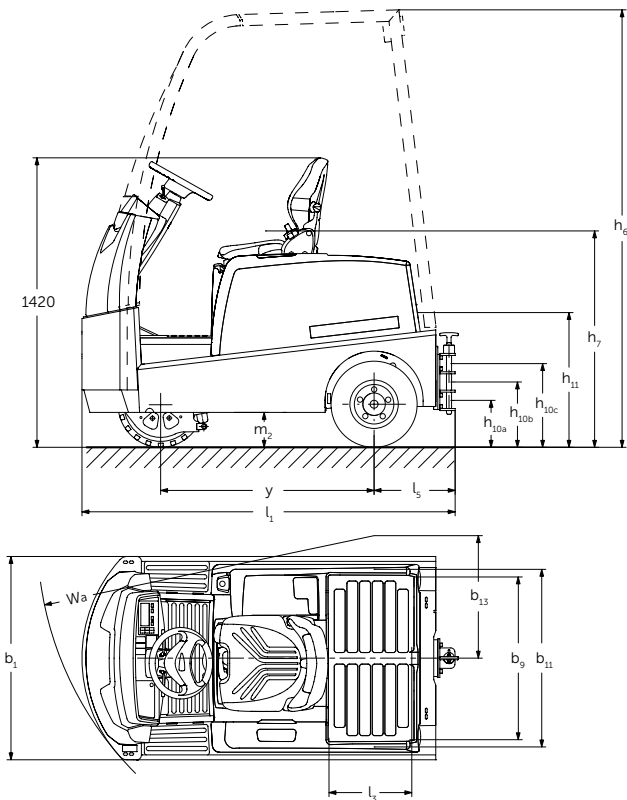
- New comfort suspension: The fully cushioned suspension with springs and shock absorbers on all wheels protects the operator's back as well as the truck.
- Robust design: The powerful steel frame and hard-wearing moulded parts last for the lifetime of a tow tractor in daily operation.
- LED lighting: The optional lighting is environmentally friendly and not sensitive to vibrations.
- Easily accessible 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 stand-on platform makes it easy to climb aboard, the spacious foot-well provides ample legroom and the steering wheel, travel direction switch and indicator lever are all easy to reach, making it an extremely ergonomic unit.
- Automatic parking brake with roll-back protection. When the truck comes to a halt, the tow tractor and trailer are automatically secured.
- 48-V 3-phase AC motor provides strong acceleration and a high top speed.
- Regenerative braking: The braking energy is fed back into the battery, thereby extending its operating period.
- Fast battery replacement: 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 is also used in the 48-V class forward-loading trucks, in the XL version.

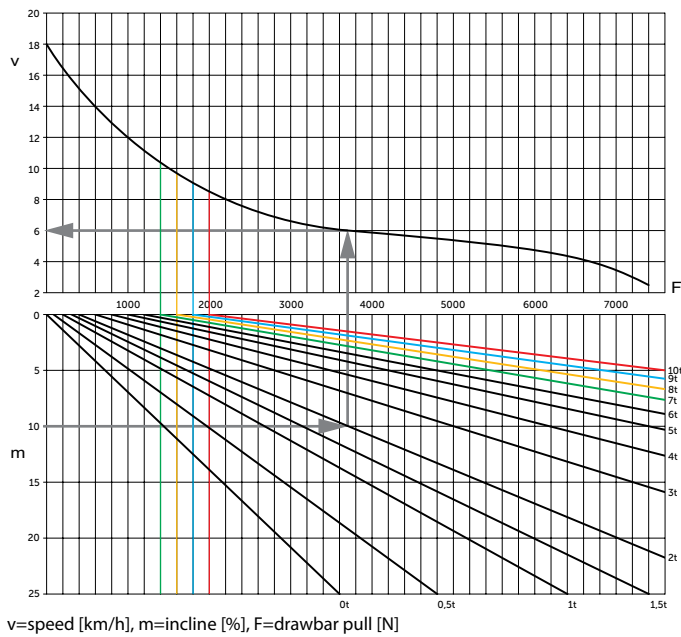
Conclusion: Sophisticated ergonomics and technology in the form of our EZS Series 5 ensure gentle and safe working with a high degree of cost and energy efficiency.

 **JUNGHEINRICH**

# EZS 570/580/590/5100



## Towing capacity



### Example:

The EZS 570 travels on a 10% incline with a 2 t load. The EZS requires 3700 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.
- No continuous operation possible for EZS 5100 XL over 2000 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	EZS 5100 XL		
<b>Identification</b>	1.1	Manufacturer (abbreviation)	Jungheinrich								
	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	10
	1.7	Rated drawbar pull	F	N	1,400	1,400	1,600	1,600	1,800	1,800	2,000
1.9	Wheelbase	y	mm	1,035	1,250	1,035	1,250	1,035	1,250	1,250	
<b>Weights</b>	2.1.1	Net weight incl. battery (see row 6.5)		kg	1,260	1,620	1,320	1,675	1,410	1,675	1,952
	2.3	Axle loading, unladen front/rear		kg	580 / 680	780 / 840	580 / 740	835 / 840	620 / 790	835 / 840	897 / 1,055
<b>Wheels / frame</b>	3.1	Tyres	SE / pneumatic								
	3.2	Tyre size, front	16x6-8								
	3.3	Tyre size, rear	4.00-8								
	3.5	Wheels, number front/rear (x = driven wheels)	1 / 2x								
	3.6	Tread width, front	b <sub>10</sub>	mm	0	0	0	0	0	0	0
3.7	Tread width, rear	b <sub>11</sub>	mm	870							
<b>Basic dimensions</b>	4.7	Height of overhead guard	h <sub>6</sub>	mm	2,140						
	4.8	Seat height/standing height	h <sub>7</sub>	mm	1,040						
	4.12	Coupling height	h <sub>10</sub>	mm	240						
	4.12.1	2. Coupling height		mm	330						
	4.12.2	3. Coupling height	h <sub>10</sub>	mm	420						
	4.13	Loading height unladen	h <sub>11</sub>	mm	650	650	650	650	640	640	640
	4.16	loading area length	l <sub>3</sub>	mm	400						
	4.17	Overhang length	l <sub>5</sub>	mm	375						
	4.18	Loading area width	b <sub>9</sub>	mm	795						
	4.19	Overall length	l <sub>1</sub>	mm	1,813	2,035	1,813	2,035	1,813	2,035	2,035
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	996						
4.32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	160	160	160	160	130	160	130	
4.35	Turning radius	W <sub>a</sub>	mm	1,620	1,860	1,620	1,860	1,620	1,860	1,860	
4.36	Smallest turning radius	b <sub>13</sub>	mm	600	665	600	665	600	665	665	
<b>Performance data</b>	5.1	Travel speed, laden/unladen		km/h	8.5 / 18	8.5 / 18	8.5 / 18	8.5 / 18	8.5 / 18	8.5 / 18	7 / 18
	5.5	Drawbar pull, laden/unladen		N	1,400	1,400	1,600	1,600	1,800	1,800	2,000
	5.6	Max. drawbar pull, laden/unladen		N	5,500	5,500	6,500	6,500	7,500	7,500	7,600
	5.7	Gradeability, laden/unladen		%	- / - <sup>1)</sup>						
	5.8	Max. gradeability, laden/unladen		%	- / - <sup>1)</sup>						
	5.10	Service brake			hydraulic						
<b>Electrics</b>	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	48 / 625
	6.5	Battery weight		kg	575	860	575	860	575	860	860
	6.6	Energy consumption according to VDI cycle		kWh/h	3.7 <sup>2)</sup>	3.7 <sup>2)</sup>	4.3 <sup>2)</sup>	4.3 <sup>2)</sup>	5.5 <sup>2)</sup>	5.5 <sup>2)</sup>	6.1 <sup>2)</sup>
	<b>Misc.</b>	8.1	Type of drive control			Impuls/AC					
8.4		Sound pressure level at operator's ear as per EN 12053		dB (A)	57						

<sup>1)</sup> See diagram

<sup>2)</sup> With rated load

# Benefit from the advantages



Reliable LED lighting (optional)



Ergonomic low step for effortless entry and exit



Clear layout of controls ensures easy operation



Driver cabs also available if required

## Innovative 3-phase AC technology

Our 3-phase AC technology motors offer you more power and performance, while at the same time reducing operating costs:

- High efficiency levels with excellent energy management.
- Powerful acceleration and high top speed, even when laden.
- Rapid direction change.
- Maintenance-free drive motor.
- 2-year warranty on the drive motor.

## Comfortable and safe operation

The speedCONTROL impulse control system facilitates comfortable, safe travel with adjustment options for every application:

- The fully sprung frame with springs and shock absorber guarantees traction at all times.
- The automatic parking brake ensures reliable starting and roll-back protection on gradients.
- The travel speed, set using the accelerator is maintained in all situations.
- Energy recovery – regenerative braking when decelerating.
- Programmable crawl speed button allows travel at reduced speed.
- Three alternative travel programs can be set to suit every specific need.
- 2-stage LED lights (daytime running lights, travel lights).

## Optimised ergonomics

- Easy entry and exit due to the low footstep.

- Spacious operator position with large foot-well. Ergonomic footrest for the left foot.
- Short distances from the operator position to the coupling and load.
- Clearly visible, easily accessible coupling.
- Inching controls for simple coupling and decoupling (optional).
- Non-marking superelastic 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 plate.
- Extra-high frame apron to the front.
- Robust LED lights: Front lights, rear lights and indicators (optional).
- Lateral protection provided by skirting (optional).

## Long operating times available with lead-acid battery

Energy-efficient 3-phase AC technology and high battery capacities allow for long operating times. XL version allows the use of forklift truck batteries (e.g. electric 3 wheel fork lift EFG 213-220).

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

## Fully informed at all times

Easy to read display and instruments allows a constant and complete overview of battery discharge indication, operation hours, speed and fault diagnostics.

- PIN code activation of the truck (optional).
- Choice of 3 travel programs.
- Adjustable travel parameters.
- Turtle switch.

## Additional equipment

Extensive accessories for individual tailoring to your requirements:

- Inching buttons for simple coupling and decoupling.
- Lateral battery exchange for easy changing.
- Additional steel bumper.
- Holder for radio data components.
- Different couplings.
- Hydraulic or electric supply connections for our GTE and GTP trailers.
- Comfort charging: Charging of the built-in battery without need to open panels.
- Cabs with various options for outdoor use.
- Further options for the right configuration of the tow tractor.
- Also available: Platform truck based on the EZS Series 5.

## 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.

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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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