



Electric tow tractor **EZS 570-5100**

Towing capacity: 7000-10000 kg



The image contains two technical drawings of a vehicle chassis, labeled 'a' and 'b'.

Drawing 'a' is a side view of the chassis. It shows a front suspension with a steering knuckle and a rear suspension with a semi-elliptical spring. The front wheel is shown with a steering knuckle and a wheel hub. The rear wheel is shown with a wheel hub and a wheel. The chassis is shown with a front cross-member and a rear cross-member. Dimensions are indicated with lines and labels: 1420 (overall height), h_7 (height to top of chassis), h_{11} (height to top of rear suspension), h_{10a} , h_{10b} , h_{10c} (heights to various points on rear suspension), m_3 (mass of front suspension), y (distance from front wheel to center of gravity), l_1 (wheelbase), l_2 (distance from center of gravity to rear wheel).

Drawing 'b' is a top view of the chassis. It shows the front and rear cross-members, the steering knuckle, and the wheel hubs. Dimensions are indicated with lines and labels: b_1 (overall width), W_a (width of front suspension), b_{13} (width of rear suspension), b_9 , b_{11} (widths to various points on rear suspension), l_2 (distance from front wheel to center of gravity).

Das Diagramm zeigt die Bestimmung der Zugkraft F und der Steigung m für eine bestimmte Geschwindigkeit v . Die obere Kurve stellt die Zugfähigkeit dar, die untere Kurve die Steigung. Die Achsen sind:

- v : Geschwindigkeit [km/h] (y-Achse, 0 bis 20)
- F : Zugkraft [N] (x-Achse, 0 bis 7000)
- m : Steigung [%] (y-Achse, 0 bis 25)

Die Kurven sind:

- Zugfähigkeit (oben): Eine Kurve, die von links oben nach rechts unten verläuft.
- Steigung (unten): Mehrere Geraden, die von links unten nach rechts oben verlaufen, beschriftet mit $0t$, $0.5t$, $1t$, $1.5t$, $2t$, $3t$, $4t$, $5t$, $6t$, $7t$, $8t$, $9t$, $10t$.

Die Bestimmung erfolgt über die folgenden Schritte:

- Wahl einer Geschwindigkeit v auf der y-Achse.
- Bestimmung der Zugkraft F auf der x-Achse, die der Geschwindigkeit v entspricht (auf der Zugfähigkeitskurve).
- Bestimmung der Steigung m auf der y-Achse, die der Zugkraft F entspricht (auf der Steigungskurve).

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)		Jungheinrich				
	1.2	Manufacturer's type designation		EZS 5				
	1.3	Drive		Electric				
	1.4	Operation		Seat				
	1.5.3	Towing capacity	Q	kg	7000	8000	9000	10000
	1.7	Rated drawbar pull		N	1400	1600	1800	2000
	1.9	Wheelbase	y	mm	1035			1250
Weights	2.1.1	Service weight (incl. battery)		kg	1260	1320	1410	1825
	2.3	Axle load unladen front/rear		kg	580 / 680	580 / 740	620 / 790	880 / 945
Wheels/suspension system	3.1	Tyres		Super-elastic (SE)				
	3.2	Tyre size, front		4.00-8	16x6-8		16x6-8	
	3.3	Tyre size, rear		4.00-8				
	3.5	Wheels, number front/back (x=driven)		1 / 2x				
	3.6	Tread width, front	b10	mm	0			
	3.7	Tread width, rear	b11	mm	870			
Basic dimensions	4.7	Height of overhead guard (cab)	h6	mm	2150			2140
	4.8	Seat height/stand height	h7	mm	1040			
	4.12	Coupling height	h10	mm	265			
	4.12.1	2. Coupling height		mm	330			
	4.12.2	3. Coupling height		mm	395			
	4.13	Loading height, unladen		mm	650	640		
	4.16	Loading area length	l3	mm	400			
	4.17	Overhang length		mm	375			
	4.18	Loading area width	b9	mm	795			
	4.19	total length	l1	mm	1828			2048
	4.21.1	total width	b1	mm	996			
	4.32	Ground clearance centre of wheelbase	m2	mm	160	130		
	4.35	Turning radius	Wa	mm	1652			1866
	4.36	Smallest pivot point distance	b13	mm	600			665
Performance data	5.1	Travel speed laden/unladen		km/h	9 / 18	8.5 / 18		7.5 / 18
	5.5	Drawbar pull laden		N	1400	1600	1800	2000
	5.6	Max. drawbar pull laden/unladen		N	5500 / 5500	6500 / 6500	7500 / 7500	7600 / 7600
	5.10	Service brake			electric			

E-motor/Electronics	6.1	Drive motor, performance S2 60 min	kW	4.5			
	6.4	Battery voltage/nominal capacity	V / Ah	48 / 375			48 / 625
	6.5	Battery weight	kg	575			860
	6.6	Energy consumption according to VDI cycle	kWh/h	0			
	6.6.1	Energy consumption according to EN cycle	kWh/h	1.33	1.5	1.67	1.84
	6.6.2	CO2 equivalent as per EN 16796	kg/h	0.7	0.8	0.9	1
Other	8.1	Type of drive control		Impulse/AC			
	10.7	Sound level as per EN12053, operator's ear	dB (A)	62			

- This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values.

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Norderstedt, Moosburg and Landsberg
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ISO 9001
ISO 14001

 **JUNGHEINRICH**