



Medium/high level order picker

EKS 110

Lift height: 1000-2800 mm / Load capacity: 1000 kg

Technical drawing of a vehicle seat and backrest assembly in a side view. The drawing includes the following dimensions and parameters:

- h_4 : Total height from the base to the top of the backrest.
- h_1 : Height from the base to the top of the seat cushion.
- 1008: Height of the seat cushion from the base.
- 220: Width of the seat base.
- y : Horizontal distance from the front edge of the seat base to the center of gravity of the seat.
- l_2 : Horizontal distance from the front edge of the seat base to the pivot point of the backrest.
- l_1 : Horizontal distance from the front edge of the seat base to the center of gravity of the backrest.
- h_7 : Height of the seat base from the ground.
- h_9 : Height of the backrest from the ground.
- h_3 : Height of the backrest from the seat base.
- h_{12} : Height of the backrest from the ground.
- h_6 : Height of the backrest from the ground.
- h_{13} : Height of the backrest from the ground.
- Q : Downward force applied to the backrest.
- S : Downward force applied to the seat base.
- C : Horizontal distance from the pivot point of the backrest to the point of application of force Q .
- l : Horizontal distance from the pivot point of the backrest to the center of gravity of the backrest.





Picture shows EKS 110 L 100 E

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich							
	1.2	Manufacturer's type designation			EKS 110 L 100 E	EKS 110 L 160 E	EKS 110 L 190 E	EKS 110 L 280 ZZ	EKS 110 Z 100 E	EKS 110 Z 160 E	EKS 110 Z 190 E	EKS 110 Z 280 ZZ
	1.3	Drive type			electric							
	1.4	Operation			Order pickers							
	1.5	Load capacity/load	Q	kg	1000							
	1.6	Load centre distance	c	mm	600							
	1.8	Load distance, centre of drive axle to fork	x	mm	143			180	148			185
	1.9	Wheelbase	y	mm	1330			1385	1330			1385
	Weights	2.1.1	Service weight (incl. battery)	kg		1661	1785	1813	2268	1763	1907	1953
2.2		Axle load laden front/rear	kg		491 / 2170	516 / 2269	506 / 2307	762 / 2506	489 / 2274	508 / 2399	504 / 2449	754 / 2636
2.3		Axle load unladen front/rear	kg		1053 / 608	1093 / 692	1084 / 729	1336 / 932	1062 / 701	1083 / 824	1079 / 874	1328 / 1062
Wheels/chassis	3.1	Tyres			Vulkollan ®							
	3.2	Tyre size, front			ø 230 x 80							
	3.3	Tyre size, rear			ø 150 x 130							
	3.5	Wheels, number front/back (x=driven)			1x / 2							
	3.7	Tread width, rear	b11	mm	630			720	630			720
Basic dimensions	4.2	Retracted mast height (h1)	h1	mm	1650	2260	2560	2250	1650	2260	2560	2250
	4.4	Lift (h3)	h3	mm	1000	1600	1900	2800	1000	1600	1900	2800
	4.5	Extended mast height (h4)	h4	mm	2650	3830	4130	5030	2650	3830	4130	5030
	4.7	Height of overhead guard (cab)	h6	mm	-	2230			-	2230		
	4.8.1	Stand height	h7	mm	200							
	4.11	Additional lift	h9	mm	-				800			
	4.14	Stand height, elevated	h12	mm	1200	1800	2100	3000	1200	1800	2100	3000
	4.15	Height, lowered	h13	mm	80							
	4.19	Total length	l1	mm	2890			2980	2895			2985
	4.20	Length including fork shank	l2	mm	1690			1780	1695			1785
	4.21.1	total width	b1	mm	810			900	810			900
	4.22	Fork dimensions	s/ e/l	mm	60 x 160 x 1200							
	4.25	Width across forks	b5	mm	540							
	4.26	Width between support arms/loading areas	b4	mm	430			520	430			520
	4.27	Width over guide rollers	b6	mm	970			1060	970			1060
	4.31	Ground clearance laden under mast	m1	mm	35							
	4.34.1	Aisle width (pallet 1000x1200 sideways)	Ast	mm	3039			3127	3039			3127

	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	3149			3240	3154			3245
	4.35	Turning radius	Wa	mm	1548			1603	1548			1603
Performance data	5.1	Travel speed laden/unladen (Efficiency drivePLUS)		km/h	9 / 10 10 / 13	9 / 9 10 / 12	9 / 9 9.5 / 12	9 / 9 9 / 11	9 / 10 10 / 13	9 / 9 10 / 12	9 / 9 9.5 / 12	9 / 9 9 / 11
	5.2	Lift speed laden/unladen		m/s	0.19 / 0.26	0.15 / 0.2		0.23 / 0.31	0.19 / 0.26	0.15 / 0.2		0.23 / 0.31
	5.3	Lowering speed laden/unladen		m/s	0.24 / 0.24	0.23 / 0.22		0.28 / 0.26	0.24 / 0.24	0.23 / 0.22		0.28 / 0.26
	5.7	Gradeability laden/unladen		%	5 / 10							
	5.10	Service brake			generative							
	5.11	Parking brake			Electromagnetic spring-loaded brake system							
Electric motor/electronics	6.1	Drive motor, performance S2 60 min		kW	3.2							
	6.2	Lift motor, performance with S3		kW	3			6	3			6
	6.3	Battery according to DIN 43531/35/36			DIN 43535 B							
	6.4	Battery voltage/nominal capacity		V / Ah	24 / 620							
	6.5	Battery weight		kg	480							
	6.6.1	Energy consumption according to EN cycle		kWh/h	0.42							
Other	8.1	Type of drive control			AC							
	10.5	Steering version			Electric power steering							
	10.7	Sound pressure level according to EN12053		dB (A)	61							
- 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.												

- 4.2: L100E with overhead guard 2,230 mm
- 4.5: L100E with overhead guard 3,230 mm
- 4.7: L100E and Z100E overhead guard optional

The German production facilities in
Norderstedt, Moosburg and Landsberg
are certified as well as our Genuine Parts
Center in Kaltenkirchen.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet
European safety requirements.



 **JUNGHEINRICH**