

Electric reach truck

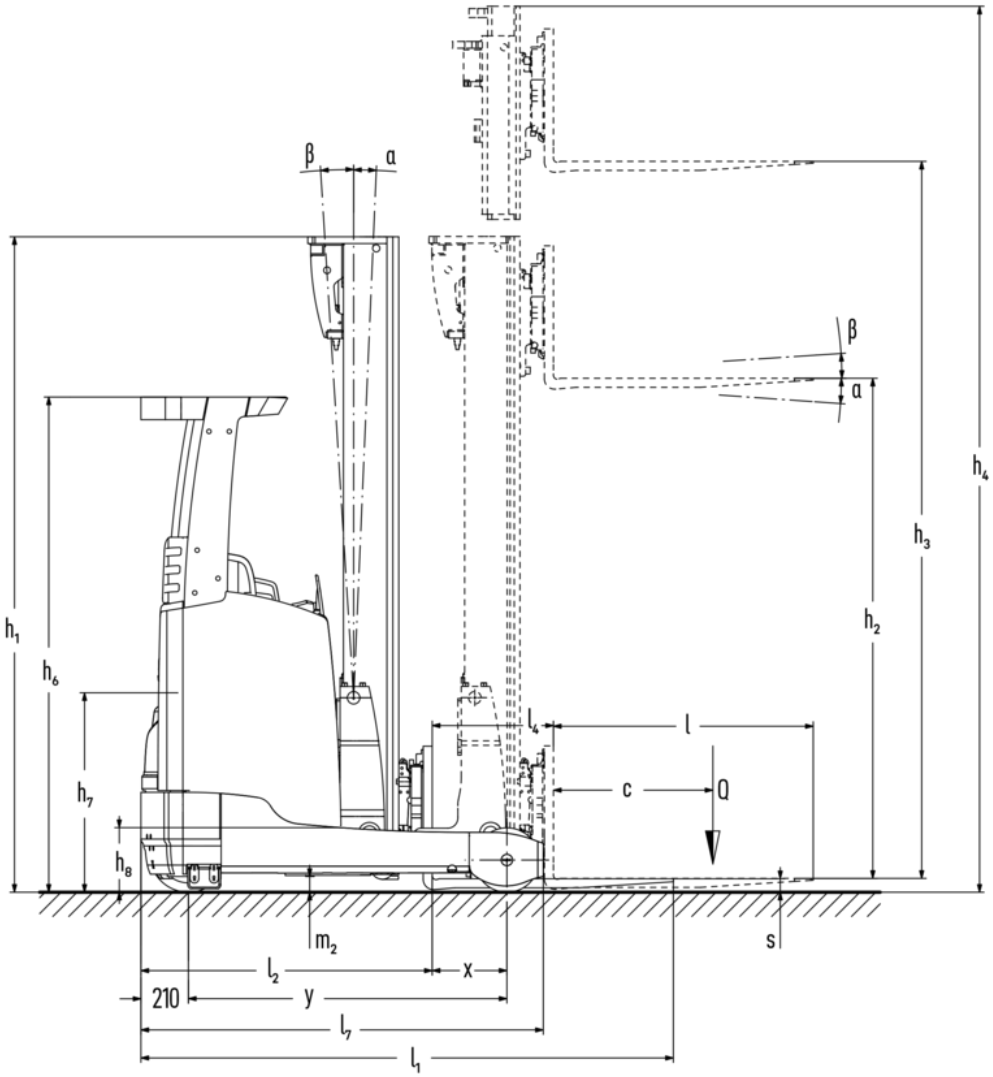
ETV/ETM 210–216

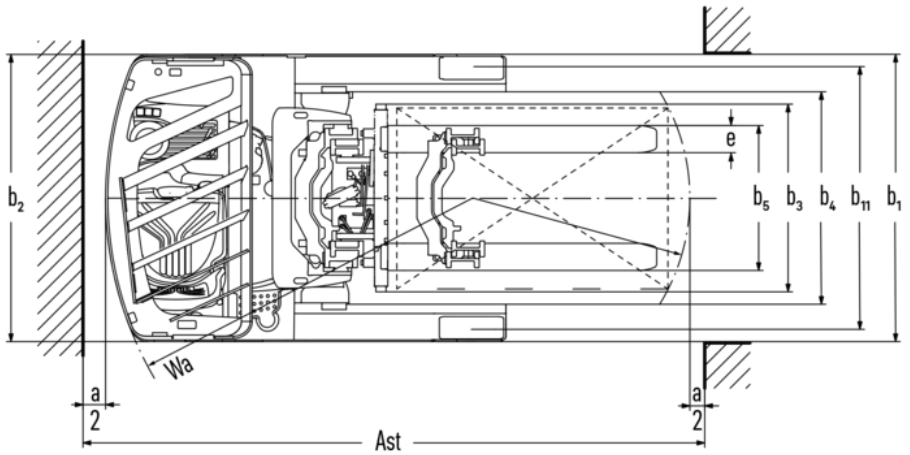
Lift height: 4550-10700 mm / Load capacity: 1000-1600 kg

LI-ION technology

JUNGHEINRICH

ETV/ETM 210–216





ETV/ETM 210–216

ETM 214, ETV 214, ETM 216, ETV 216	Lift (h3)	Retracted mast height (h1)	Free lift (h2)	Extended mast height (h4)	Forward/ backward tilt of mast	Forward/ backward tilt of fork carriage
Mast tilt / Triplex mast DZ-V / cold-formed	6500 mm	2700 mm	2046 mm	7154 mm	0.5 / 2 °	
	6800 mm	2800 mm	2146 mm	7454 mm	0.5 / 2 °	
	7100 mm	2900 mm	2246 mm	7754 mm	0.5 / 2 °	
	7310 mm	2970 mm	2316 mm	7964 mm	0.5 / 1 °	
	7400 mm	3000 mm	2346 mm	8054 mm	0.5 / 1 °	
	7700 mm	3100 mm	2446 mm	8354 mm	0.5 / 1 °	
	8000 mm	3200 mm	2546 mm	8654 mm	0.5 / 1 °	
	8300 mm	3300 mm	2646 mm	8954 mm	0.5 / 1 °	
	8420 mm	3340 mm	2686 mm	9074 mm	0.5 / 1 °	
	8720 mm	3440 mm	2786 mm	9374 mm	0.5 / 1 °	
	9020 mm	3540 mm	2886 mm	9674 mm	0.5 / 1 °	
ETV 210, ETV 212, ETM 214, ETV 214, ETM 216, ETV 216	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**	**Forward/ backward tilt of mast**	**Forward/ backward tilt of fork carriage**
Mast tilt / Triplex mast DZ / hot-rolled	4550 mm	2050 mm	1396 mm	5204 mm	1 / 5 °	
	5000 mm	2200 mm	1546 mm	5654 mm	1 / 5 °	
	5240 mm	2280 mm	1626 mm	5894 mm	1 / 5 °	
	5300 mm	2300 mm	1646 mm	5954 mm	1 / 5 °	
	5450 mm	2350 mm	1696 mm	6104 mm	1 / 3 °	
	5600 mm	2400 mm	1746 mm	6254 mm	1 / 3 °	
	5720 mm	2440 mm	1786 mm	6374 mm	1 / 3 °	
	5900 mm	2500 mm	1846 mm	6554 mm	1 / 3 °	
	6200 mm	2600 mm	1946 mm	6854 mm	1 / 3 °	
	6500 mm	2700 mm	2046 mm	7154 mm	0.5 / 2 °	
	6800 mm	2800 mm	2146 mm	7454 mm	0.5 / 2 °	
	7100 mm	2900 mm	2246 mm	7754 mm	0.5 / 2 °	
	7310 mm	2970 mm	2316 mm	7964 mm	0.5 / 1 °	
	7400 mm	3000 mm	2346 mm	8054 mm	0.5 / 1 °	
ETV 214, ETV 216	**Lift (h3)**	**Retracted mast height (h1)**	**Free lift (h2)**	**Extended mast height (h4)**	**Forward/ backward tilt of mast**	**Forward/ backward tilt of fork carriage**

Fork tilt / Triplex mast DZ-V / cold-formed	5000 mm	2200 mm	1546 mm	5654 mm	2 / 5 °
	5300 mm	2300 mm	1646 mm	5954 mm	2 / 5 °
	5600 mm	2400 mm	1746 mm	6254 mm	2 / 5 °
	5900 mm	2500 mm	1846 mm	6554 mm	2 / 5 °
	6200 mm	2600 mm	1946 mm	6854 mm	2 / 5 °
	6500 mm	2700 mm	2046 mm	7154 mm	2 / 5 °
	6800 mm	2800 mm	2146 mm	7454 mm	2 / 5 °
	7100 mm	2900 mm	2246 mm	7754 mm	2 / 5 °
	7400 mm	3000 mm	2346 mm	8054 mm	2 / 5 °
	7700 mm	3100 mm	2446 mm	8354 mm	2 / 5 °
	8000 mm	3200 mm	2546 mm	8654 mm	2 / 5 °
	8300 mm	3300 mm	2646 mm	8954 mm	2 / 5 °
	8420 mm	3340 mm	2686 mm	9074 mm	2 / 5 °
	8720 mm	3440 mm	2786 mm	9374 mm	2 / 5 °
	9020 mm	3540 mm	2886 mm	9674 mm	2 / 5 °
	9410 mm	3670 mm	3016 mm	10064 mm	2 / 5 °
	9920 mm	3840 mm	3186 mm	10574 mm	2 / 5 °
	10250 mm	3950 mm	3296 mm	10904 mm	2 / 5 °
	10520 mm	4040 mm	3386 mm	11174 mm	2 / 5 °
	10700 mm	4100 mm	3446 mm	11354 mm	2 / 5 °

VDI table

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich					
	1.2	Manufacturer's type designation			ETV 210	ETV 212	ETM 214	ETV 214	ETM 216	ETV 216
	1.3	Drive type			electric					
	1.4	Operation			Sideways-seated					
	1.5	Load capacity/load	Q	kg	1000	1200	1400		1600	
	1.6	Load centre distance	c	mm	600					
	1.8	Load distance, centre of drive axle to fork	x	mm	315	400	353	423	403	413
	1.8.1	Load distance, centre of drive axle to fork, mast extended		mm	170		205			
	1.9	Wheelbase	y	mm	1300	1385	1410		1460	
Weights	2.1.1	Service weight (incl. battery)		kg	2560	2580	2975	3000	3110	3136
	2.3	Axle load unladen front/rear		kg	1587 / 973	1587 / 993	1785 / 1190	1830 / 1170	1835 / 1275	1882 / 1254
	2.4	Axle load fork forward laden front/rear		kg	634 / 2926	516 / 3264	481 / 3894	572 / 3828	518 / 4192	521 / 4215
	2.5	Axle load fork back laden front/rear		kg	1282 / 2278	1361 / 2419	1531 / 2844	1628 / 2772	1649 / 3061	1658 / 3078
Wheels/chassis	3.1	Tyres			Polyurethane (PU)					
	3.2	Tyre size, front			Ø 343 x 114					
	3.3	Tyre size, rear			Ø 230 x 85		Ø 285 x 100			
	3.5	Wheels, number front/back (x=driven)			1x / 2					
	3.7	Tread width, rear	b11	mm	993		986	1136	986	1136
Basic dimensions	4.1	Forward/backward tilt of mast	a/ß	°	1 / 3					
	4.2	Retracted mast height (h1)	h1	mm	2300		2400			
	4.3	Free lift (h2)	h2	mm	1646		1746			
	4.4	Lift (h3)	h3	mm	5300		5600			
	4.5	Extended mast height (h4)	h4	mm	5954		6254			
	4.7	Height of overhead guard (cab)	h6	mm	2190					
	4.8	Seat height/stand height	h7	mm	1057					
	4.10	Height of support arms	h8	mm	265		285			
	4.19	Total length	l1	mm	2346		2418	2348	2418	2408
	4.20	Length including fork shank	l2	mm	1196		1268	1198	1268	1258
	4.21.1	total width	b1	mm	1120			1270	1120	1270
	4.21.2	total width	b2	mm	1120			1270	1120	1270
	4.22	Fork dimensions	s/e/l	mm	40 x 80 x 1150		40 x 120 x 1150			
	4.23	Fork carriage connection class			2B					
	4.24	Fork carriage width	b3	mm	800		830			
	4.25	Width across forks	b5	mm	296		335			
	4.25.1	Width across forks (min./max.)	b5	mm	296 / 705		335 / 560	335 / 705	335 / 560	335 / 705
	4.26	Width between support arms/loading areas	b4	mm	900		780	940	780	940
	4.28	Reach distance		mm	485	570	558	628	608	618
	4.32	Ground clearance centre of wheelbase	m2	mm	80					
	4.34.1	Aisle width (pallet 1000×1200 sideways)	Ast	mm	2626	2644	2702	2652	2716	2709
	4.34.2	Aisle width (pallet 800x1200 length)	Ast	mm	2686	2689	2757	2694	2762	2753
	4.35	Turning radius	Wa	mm	1515	1595	1620		1670	
	4.37	Length over the support arms	L7	mm	1640	1725	1780		1830	

Performance data	5.1	Travel speed laden/unladen (Efficiency | drivePLUS)	km/h	11 / 11 | - / -				11 / 11 | 14 / 14		
	5.2	Lift speed laden/unladen (Efficiency | liftPLUS)	m/s	0.48 / 0.7 | - / -	0.43 / 0.7 | - / -			0.38 / 0.7 | 0.51 / 0.7	0.35 / 0.7 | 0.48 / 0.7	
	5.3	Lowering speed laden/unladen (Efficiency | liftPLUS)	m/s	0.5 / 0.5 | - / -				0.55 / 0.55 | 0.55 / 0.55		
	5.4	Reach speed laden/unladen (Efficiency | liftPLUS)	m/s	0.2 / 0.2 | - / -				0.18 / 0.18 | 0.22 / 0.22		
	5.7	Gradeability laden/unladen (Efficiency | drivePLUS)	%	7 / 10 | - / -				9 / 13 | 9 / 13	8 / 12 | 8 / 12	
	5.8	Max. gradeability laden/unladen (Efficiency | drivePLUS)	%	10 / 15 | - / -				10 / 15 | 10 / 15		
	5.9	Acceleration time laden/unladen (Efficiency | drivePLUS)	s	4.8 / 4.3 | - / -	4.9 / 4.5 | - / -			5.3 / 5 | 4.7 / 4.3	5.4 / 5 | 4.8 / 4.3	
	5.10	Service brake		electric						
Electric motor/electronics	6.1	Drive motor, performance S2 60 min (Efficiency | drivePLUS)	kW	6 | -				6 | 8.5		
	6.2	Lift motor, performance with S3 (Efficiency | liftPLUS)	kW	13.3 | -				13.3 | 15.5		
	6.3	Battery according to DIN 43531/35/36		DIN 43531 B				DIN 43531 C	DIN 43531 B	DIN 43531 C
	6.4	Battery voltage/nominal capacity	V / Ah	48 / 280				48 / 465		
	6.5	Battery weight	kg	556				750		
	6.6.1	Energy consumption according to EN cycle (Efficiency | PLUS)	kWh/h	2.81 | -	3.05 | -			3.16 | 3.21	3.19 | 3.23	
	6.6.2	CO2 equivalent according to EN ISO 23308 (Efficiency | PLUS)	kg/h	1.52 | -	1.65 | -			1.71 | 1.7	1.72 | 1.7	
	6.7	Throughput (Efficiency | PLUS)	t/h	38.63 | -	46.65 | -			52.34 | 60.8	58.42 | 68.74	
	6.8	Turnover efficiency according to VDI 2198 (Efficiency | PLUS)	t/kWh	13.4 | -	15.2 | -			17 | 15	18.1 | 16.7	
	6.8.1	Energy consumption with max. throughput (Efficiency | PLUS)	kWh/h	2.89 | -	3.06 | -			3.08 | 4.04	3.22 | 4.11	
Other	8.1	Type of drive control		Impulse / Mosfet AC				Mosfet/AC		
	10.1	Operating pressure for attachment	bar	150						
	10.2	Oil flow for attachments	l/min	20						
	10.7	Sound pressure level according to EN12053	dB (A)	68						

- 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.

- VDI no. 1.8: battery size and mast type affect load distance x
- VDI no. 2.1.1: the battery size and mast version affect service weight and axle loads
- VDI no. 2.3: the battery size and mast version affect service weight and axle loads
- VDI no. 2.4: the battery size and mast version affect service weight and axle loads
- VDI no. 2.5: the battery size and mast version affect service weight and axle loads
- VDI no. 4.1: the mast version determines the tilt values
- VDI no. 4.10: the height of the support arms is increased by 30 mm with a load wheel cover
- VDI no. 4.19: the battery size, mast type and fork length affect the overall length l1
- VDI no. 4.20: the battery size and mast type affect the length including fork shank l2
- VDI no. 4.28: battery size and mast type affect the reach distance l4
- VDI no. 4.34.1: the battery size and mast type affect the aisle widths
- VDI no. 4.34.2: the battery size and mast type affect the aisle widths
- VDI no. 6.6.1: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.6.2: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.7: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.8.1: PLUS refers to the drive&liftPLUS performance package

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.

CE

JUNGHEINRICH