



Electric reach truck **ETM/ETV 214 / 216**

Lift height: 4550-10700 mm / Load capacity: 1400-1600 kg

[illegible]

ETM/ETV 214 / 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 / cold-formed	6500 mm	2700 mm	2056 mm	7144 mm	0.5 / 2 °	
	6800 mm	2800 mm	2156 mm	7444 mm	0.5 / 2 °	
	7100 mm	2900 mm	2256 mm	7744 mm	0.5 / 2 °	
	7310 mm	2970 mm	2326 mm	7954 mm	0.5 / 1 °	
	7400 mm	3000 mm	2356 mm	8044 mm	0.5 / 1 °	
	7700 mm	3100 mm	2456 mm	8344 mm	0.5 / 1 °	
	8000 mm	3200 mm	2556 mm	8644 mm	0.5 / 1 °	
	8300 mm	3300 mm	2656 mm	8944 mm	0.5 / 1 °	
	8420 mm	3340 mm	2696 mm	9064 mm	0.5 / 1 °	
	8720 mm	3440 mm	2796 mm	9364 mm	0.5 / 1 °	
	9020 mm	3540 mm	2896 mm	9664 mm	0.5 / 1 °	
Mast tilt / Triplex mast DZ / hot-rolled	4550 mm	2050 mm	1406 mm	5194 mm	1 / 5 °	
	5000 mm	2200 mm	1556 mm	5644 mm	1 / 5 °	
	5240 mm	2280 mm	1636 mm	5884 mm	1 / 5 °	
	5300 mm	2300 mm	1656 mm	5944 mm	1 / 5 °	
	5450 mm	2350 mm	1706 mm	6094 mm	1 / 3 °	
	5600 mm	2400 mm	1756 mm	6244 mm	1 / 3 °	
	5720 mm	2440 mm	1796 mm	6364 mm	1 / 3 °	
	5810 mm	2470 mm	1826 mm	6454 mm	1 / 3 °	
	5900 mm	2500 mm	1856 mm	6544 mm	1 / 3 °	
	6200 mm	2600 mm	1956 mm	6844 mm	1 / 3 °	
	6500 mm	2700 mm	2056 mm	7144 mm	0.5 / 2 °	
	6800 mm	2800 mm	2156 mm	7444 mm	0.5 / 2 °	
	7100 mm	2900 mm	2256 mm	7744 mm	0.5 / 2 °	
	7310 mm	2970 mm	2326 mm	7954 mm	0.5 / 1 °	
	7400 mm	3000 mm	2356 mm	8044 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 / cold-formed	5000 mm	2200 mm	1556 mm	5644 mm	2 / 5 °	
	5300 mm	2300 mm	1656 mm	5944 mm	2 / 5 °	
	5600 mm	2400 mm	1756 mm	6244 mm	2 / 5 °	
	5900 mm	2500 mm	1856 mm	6544 mm	2 / 5 °	
	6200 mm	2600 mm	1956 mm	6844 mm	2 / 5 °	
	6500 mm	2700 mm	2056 mm	7144 mm	2 / 5 °	
	6800 mm	2800 mm	2156 mm	7444 mm	2 / 5 °	
	7100 mm	2900 mm	2256 mm	7744 mm	2 / 5 °	
	7400 mm	3000 mm	2356 mm	8044 mm	2 / 5 °	
	7700 mm	3100 mm	2456 mm	8344 mm	2 / 5 °	
	8000 mm	3200 mm	2556 mm	8644 mm	2 / 5 °	
	8300 mm	3300 mm	2656 mm	8944 mm	2 / 5 °	
	8420 mm	3340 mm	2696 mm	9064 mm	2 / 5 °	
	8720 mm	3440 mm	2796 mm	9364 mm	2 / 5 °	
	9020 mm	3540 mm	2896 mm	9664 mm	2 / 5 °	
	9410 mm	3670 mm	3026 mm	10054 mm	2 / 5 °	
	9920 mm	3840 mm	3196 mm	10564 mm	2 / 5 °	
	10250 mm	3950 mm	3306 mm	10894 mm	2 / 5 °	

10520 mm	4040 mm	3396 mm	11164 mm	2 / 5 °
10700 mm	4100 mm	3456 mm	11344 mm	2 / 5 °

VDI table

Stand-on: 11/2021

Characteristic	1.1	Manufacturer (abbreviated description)			Jungheinrich			
	1.2	Manufacturer's type designation			ETM 214	ETV 214	ETM 216	ETV 216
	1.3	Drive			Electric			
	1.4	Operation			Sideways-seated			
	1.5	Load capacity/load	Q	kg	1400		1600	
	1.6	Load centre distance	c	mm	600			
	1.8	Load distance, centre of drive axle to fork	x	mm	353	423	403	413
	1.8.1	Load distance, centre of drive axle to fork, mast extended		mm	205			
	1.9	Wheelbase	y	mm	1410		1460	
Weights	2.1.1	Service weight (incl. battery)		kg	2975	3000	3110	3136
	2.3	Axle load unladen front/rear		kg	1785 / 1190	1830 / 1170	1835 / 1275	1882 / 1254
	2.4	Axle load fork forward laden front/rear		kg	481 / 3894	572 / 3828	518 / 4192	521 / 4215
	2.5	Axle load fork back laden front/rear		kg	1531 / 2844	1628 / 2772	1649 / 3061	1658 / 3078
Wheels/suspension system	3.1	Tyres			Polyurethane (PU)			
	3.2	Tyre size, front			Ø 343 x 114			
	3.3	Tyre size, rear			Ø 285 x 100			
	3.5	Wheels, number front/back (x=driven)			1x / 2			
	3.7	Tread width, rear	b ₁₁	mm	986	1136	986	1136
Basic dimensions	4.2	Retracted mast height (h1)	h ₁	mm	2400			
	4.3	Free lift (h2)	h ₂	mm	1756			
	4.4	Lift (h3)	h ₃	mm	5600			
	4.5	Extended mast height (h4)	h ₄	mm	6244			
	4.7	Height of overhead guard (cab)	h ₆	mm	2190			
	4.8	Seat height/stand height	h ₇	mm	1057			
	4.10	Height of support arms	h ₈	mm	285			
	4.19	Overall length	l ₁	mm	2418	2346	2418	2408
	4.19.4	Length including fork length	l ₁	mm	2418	2348	2418	2408
	4.20	Length including fork shank	l ₂	mm	1268	1198	1268	1258
	4.21.1	Overall width	b ₁	mm	1120	1270	1120	1270
	4.21.2	Overall width	b ₂	mm	1120	1270	1120	1270
	4.22	Fork dimensions	s/ e/l	mm	40 x 120 x 1150			
	4.23	Fork carriage connection class			2B			
	4.24	Fork carriage width	b ₃	mm	830			
	4.25	Width across forks	b ₅	mm	335			
	4.25.1	Width across forks (min./max.)	b ₅	mm	335 / 560	335 / 730	335 / 560	335 / 730
	4.26	Width between support arms/loading areas	b ₄	mm	780	940	780	940
	4.28	Reach distance		mm	558	628	608	618
	4.32	Ground clearance centre of wheelbase	m ₂	mm	80			
	4.34	Aisle width (pallet 1000x1200 sideways)	Ast	mm	2702	2652	2716	2709
	4.34.1	Aisle width (pallet 800x1200 length)	Ast	mm	2757	2694	2762	2753
	4.35	Turning radius	W _a	mm	1620		1670	
	4.37	Length over the support arms	L ₇	mm	1780		1830	
Performance data	5.1	Travel speed laden/unladen (Efficiency drivePLUS)		km/h	11 / 11 14 / 14			
	5.2	Lift speed laden/unladen (Efficiency liftPLUS)		m/s	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	0.55 / 0.55 0.55 / 0.55			
	5.4	Reach speed laden/unladen (Efficiency liftPLUS)		m/s	0.18 / 0.18 0.22 / 0.22			

	5.7	Gradeability laden/unladen (Efficiency drivePLUS)	%	9 / 13 9 / 13		8 / 12 8 / 12	
	5.8	Max. gradeability laden/unladen (Efficiency drivePLUS)	%	10 / 15 10 / 15			
	5.9	Acceleration time laden/unladen (Efficiency drivePLUS)	s	5.3 / 5 4.7 / 4.3		5.4 / 5 4.8 / 4.3	
	5.10	Service brake		electric			
E-motor/Electronics	6.1	Drive motor, performance S2 60 min (Efficiency drivePLUS)	kW	6 8.5			
	6.2	Lift motor, performance with S3 (Efficiency liftPLUS)	kW	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 / 465			
	6.5	Battery weight	kg	750			
	6.6.1	Energy consumption according to EN cycle (Efficiency PLUS)	kWh/h	3.16 3.21		3.19 3.23	
	6.6.2	CO2 equivalent as per EN 16796 (Efficiency PLUS)	kg/h	1.7 1.7			
	6.7	Throughput (Efficiency PLUS)	t/h	52.34 60.8		58.42 68.74	
	6.8.1	Energy consumption with max. throughput (Efficiency PLUS)	kWh/h	3.08 4.04		3.22 4.11	
Other	8.1	Type of drive control		Mosfet/AC			
	10.1	Operating pressure for attachment	bar	150			
	10.2	Oil flow for attachments	l/min	20			
	10.7	Sound level as per EN12053, operator's ear	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.							

Efficiency: Werte Standardpaket | PLUS: Werte Leistungspaket

- VDI no. 1.8: the battery size and the mast type influence the load distance, centre of drive axle to fork x
- VDI no. 2.1.1: the battery size and the mast version influence the service weight and the axle loads
- VDI no. 2.3: the battery size and the mast version influence the service weight and the axle loads
- VDI no. 2.4: the battery size and the mast version influence the service weight and the axle loads
- VDI no. 2.5: the battery size and the mast version influence the service weight and the axle loads
- VDI no. 4.1: the mast version determines the tilt values
- VDI no. 4.10: the height of the support arms is enlarged by 30 mm with a load support arm cover
- VDI no. 4.19: the battery size, the mast type and the fork length influence the overall length l1
- VDI no. 4.20: the battery size and the mast type influence the length including fork shank l2
- VDI no. 4.28: the battery size and the mast type influence the reach distance l4
- VDI no. 4.34.1: the battery size and the mast type influence the aisle widths
- VDI no. 4.34.2: the battery size and the mast type influence 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.

ISO 9001
ISO 14001

Jungheinrich fork lift trucks meet
European safety requirements.



 **JUNGHEINRICH**