

Reach mast technology saves space

Maximum throughput with the lowest energy consumption

Spacious operator workplace

Sensitive handling while driving and lifting

Assistance systems to adapt trucks to your specific application



ETM 214/ETV 214/ETM 216/ETV 216

Electric Reach Truck (1400, 1600 kg)

Space-saving design, high performance, innovative technology and optimum ergonomic working conditions. These are the strengths of the Jungheinrich Reach Trucks ETM/ETV 214/216 whatever the task – for working with pallets, drive-through or drive-in racking; for extremely narrow areas or low heights; for single-shift or multi-shift operation. 214/216 reach trucks offer the right solution for any application.

The main advantages:

- Narrow working aisles, as little as 2711 mm save space.

- Residual capacities of 1000 kg to over 10 metres lift height.
- The very latest drive and control technology ensure greater productivity whilst at the same time reduce energy consumption.

The advanced ergonomics and technology promote productivity and motivate drivers:

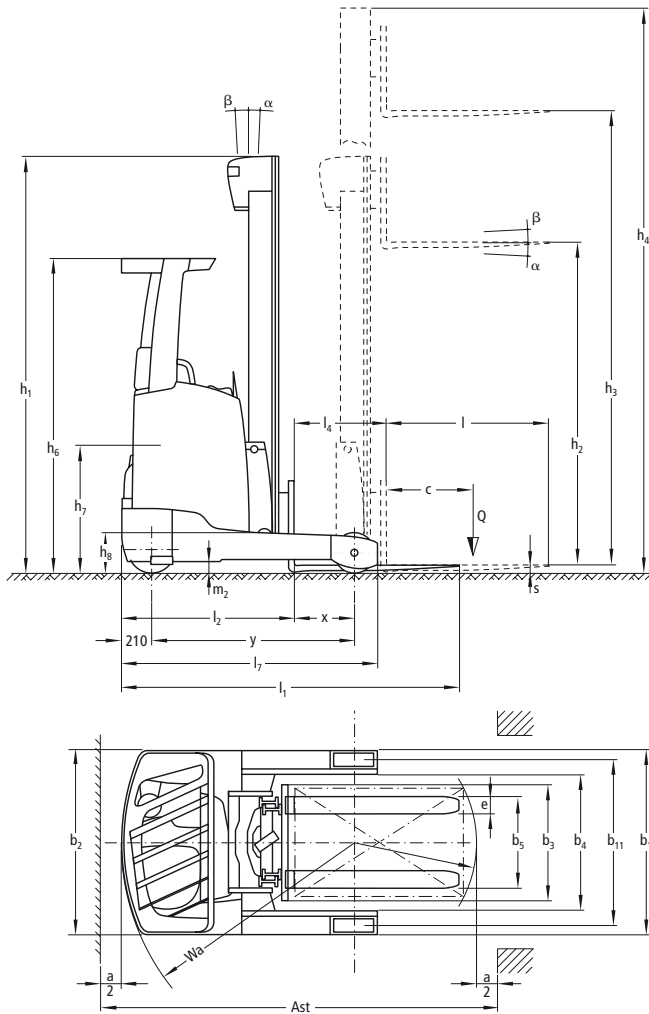
- With a generously dimensioned cab and outstanding driver visibility for general operation, stacking and retrieving.
- With the automotive layout for drive pedals.

- With Curve Control – automatic speed reducing while cornering.

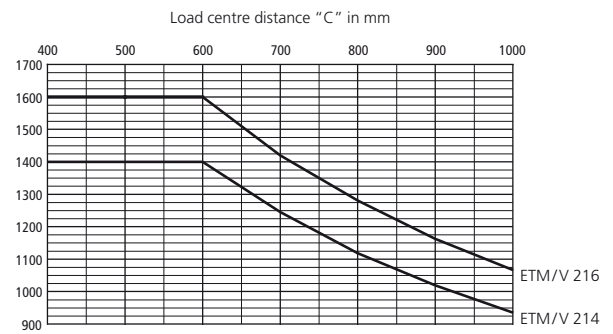
180° and 360° steering: Allows the operator to select between minimum turning radius and fastest travel direction change. SOLO-PILOT control lever: For sensitive stacking, even at high lift heights.

The right configuration for your needs: An extensive catalogue of options with a wide variety of assistance systems and battery versions from 465 to 775 Ah ensures the truck can be adapted to suit any application.

ETM 214/ETV 214/ETM 216/ETV 216



Capacity



Mast table ETM 214/ETV 214/ETM 216/ETV 216						
Designation	Closed height h_1 mm	Lift h_3 mm	Free lift h_2 mm	Extended height h_4 mm	Mast tilt forward/backward α°/β°	Fork tilt*) forward/backward α°/β°
Three-stage mast DZ	2050	4550	1406	5194	1/5	–
	2200	5000	1556	5644	1/5	2/5
	2300	5300	1656	5944	1/5	2/5
	2400	5600	1756	6244	1/3	2/5
	2500	5900	1856	6544	1/3	2/5
	2600	6200	1956	6844	1/3	2/5
	2700	6500	2056	7144	0.5/2	2/5
	2800	6800	2156	7444	0.5/2	2/5
	2900	7100	2256	7744	0.5/2	2/5
	3000	7400	2356	8044	0.5/1	2/5
	3100	7700	2456	8344	0.5/1	2/5
	3200	8000	2556	8644	0.5/1	2/5
	3300	8300	2656	8944	0.5/1	2/5
	3340	8420	2696	9064	0.5/1	2/5
	3440	8720	2796	9364	0.5/1	2/5
	3540	9020	2896	9664	0.5/1	2/5
	3670	9410	3026	10054	–	2/5
	3840	9920	3196	10564	–	2/5
	3950	10250	3306	10894	–	2/5
	4040	10520	3396	11164	–	2/5
4100	10700	3456	11344	–	2/5	

*fork inclination only for ETV 214 and ETV 216

Technical data in line with VDI 2198 as at: 04/2011

Identification	1.1	Manufacturer (abbreviation)	Jungheinrich	Jungheinrich	Jungheinrich	Jungheinrich	1.1		
	1.2	Manufacturer's type designation	ETM 214	ETV 214	ETM 216	ETV 216	1.2		
		G = fork; E = integrated side shift	GE	GE	GE	GE			
	1.3	Drive	electric	electric	electric	electric	1.3		
	1.4	Operator type	seat	seat	seat	seat	1.4		
	1.5	Load capacity/rated load	Q (t)	1.4	1.4	1.6	1.6	1.5	
	1.6	Load centre distance	c (mm)	600	600	600	600	1.6	
	1.8	Load distance	x (mm)	345 ¹⁾	417 ¹⁾	395 ¹⁾	395 ¹⁾	1.8	
		Mast pushed forward	x ₁ (mm)	205	205	205	205		
1.9	Wheelbase	y (mm)	1410	1410	1460	1460	1.9		
Weights	2.1	Service weight	kg	2975	3000	3110	3136	2.1	
	2.3	Axle loading, laden front/rear	kg	1785/1190	1830/1170	1835/1275	1882/1254	2.3	
	2.4	Axle loading, fork advanced, laden front/rear	kg	481/3894	572/3828	518/4192	521/4215	2.4	
	2.5	Axle loading, fork retracted, laden front/rear	kg	1531/2844	1628/2772	1649/3061	1658/3078	2.5	
	Wheels, Chassis	3.1	Tyres	Vulkollan®	Vulkollan®	Vulkollan®	Vulkollan®	3.1	
3.2		Tyre size, front	mm	∅ 343x114	∅ 343x114	∅ 343x114	∅ 343x114	3.2	
3.3		Tyre size, rear	mm	∅ 285x100	∅ 285x100	∅ 285x100	∅ 285x100	3.3	
3.5		Wheels, number front rear (x = driven wheels)		1x/2	1x/2	1x/2	1x/2	3.5	
3.7		Track width, rear	b ₁₁ (mm)	986	1136	986	1136	3.7	
Basic Dimensions		4.1	Tilt of mast/fork carriage forward/backward	α/β (°)	1/3 ²⁾	1/3 ²⁾	1/3 ²⁾	1/3 ²⁾	4.1
		4.2	Closed mast height	h ₁ (mm)	2400	2400	2400	2400	4.2
	4.3	Free lift	h ₂ (mm)	1756	1756	1756	1756	4.3	
	4.4	Lift (standard mast)	h ₃ (mm)	5600	5600	5600	5600	4.4	
	4.5	Height, mast extended	h ₄ (mm)	6244	6244	6244	6244	4.5	
	4.7	Height of overhead guard (cabin)	h ₆ (mm)	2190	2190	2190	2190	4.7	
	4.8	Seat height/stand height	h ₇ (mm)	960	960	960	960	4.8	
	4.10	Height of wheel arms	h ₈ (mm)	285 ³⁾	285 ³⁾	285 ³⁾	285 ³⁾	4.10	
	4.19	Overall length	l ₁ (mm)	2418 ¹⁾	2346 ¹⁾	2418 ¹⁾	2418 ¹⁾	4.19	
	4.20	Length to face of forks	l ₂ (mm)	1268 ¹⁾	1196 ¹⁾	1268 ¹⁾	1268 ¹⁾	4.20	
	4.21	Overall width	b ₁ /b ₂ (mm)	1120/1120	1270/1270	1120/1120	1270/1270	4.21	
	4.22	Fork dimensions	s / e / l (mm)	40/120/1150	40 / 120/1150	40/120/1150	40/120/1150	4.22	
	4.23	Fork carriage ISO 2328, class/type A, B		2/B	2/B	2/B	2/B	4.23	
	4.24	Fork-carriage width	b ₃ (mm)	830	830	830	830	4.24	
	4.25	Width across forks	b ₅ (mm)	335/560	335/730	335/560	335/730	4.25	
	4.26	Distance between wheel arms/loading surfaces	b ₄ (mm)	782	942	782	942	4.26	
	4.28	Reach distance	l ₄ (mm)	550 ¹⁾	622	600 ¹⁾	600 ¹⁾	4.28	
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	80	80	80	80	4.32	
	4.33	Aisle width for pallets 1000x 1200 crossways	Ast (mm)	2701 ¹⁾	2669 ¹⁾	2715 ¹⁾	2715 ¹⁾	4.33	
	4.34	Aisle width for pallets 800x 1200 lengthways	Ast (mm)	2757 ¹⁾	2711 ¹⁾	2762 ¹⁾	2762 ¹⁾	4.34	
4.35	Turning radius	Wa (mm)	1613	1613	1663	1663	4.35		
4.37	Length across wheel arms	l ₇ (mm)	1792	1792	1842	1842	4.37		
Performance Data	5.1	Travel speed, laden/unladen	km/h	11–14 ⁴⁾	11–14 ⁴⁾	11–14 ⁴⁾	11–14 ⁴⁾	5.1	
	5.2	Lift speed, laden/unladen	m/s	0.38–0.51/0.70 ⁵⁾	0.38–0.51/0.70 ⁵⁾	0.35–0.48/0.70 ⁵⁾	0.35–0.48/0.70 ⁵⁾	5.2	
	5.3	Lowering speed, laden/unladen	m/s	0.55	0.55	0.55	0.55	5.3	
	5.4	Reaching speed, laden/unladen	m/s	0.20–0.24 ⁵⁾	0.20–0.24 ⁵⁾	0.20–0.24 ⁵⁾	0.20–0.24 ⁵⁾	5.4	
	5.7	Gradeability, laden/unladen	%	9/13	9/13	8/12	8/12	5.7	
	5.8	Max. gradeability, laden/unladen	%	10/15	10/15	10/15	10/15	5.8	
	5.9	Acceleration time, laden/unladen	s	5.1–4.6/4.8–4.3 ⁴⁾	5.1–4.6/4.8–4.3 ⁴⁾	5.1–4.6/4.8–4.3 ⁴⁾	5.1–4.6/4.8–4.3 ⁴⁾	5.9	
	5.10	Service brake		electric	electric	electric	electric	5.10	
	E-Motor	6.1	Drive motor rating S ₂ 60 min.	kW	4.5–6.9 ⁴⁾	4.5–6.9 ⁴⁾	4.5–6.9 ⁴⁾	4.5–6.9 ⁴⁾	6.1
		6.2	Lift motor rating at S ₃ 15%	kW	10–14 ⁵⁾	10–14 ⁵⁾	10–14 ⁵⁾	10–14 ⁵⁾	6.2
6.3		Battery acc. to DIN 43531/35/36 A, B, C, no		B	C	B	C	6.3	
6.4		Battery voltage, nominal capacity K ₅	V/Ah	48/465	48/465	48/465	48/465	6.4	
6.5		Battery weight	kg	750	750	750	750	6.5	
		Battery dimensions (l/w/h)	mm	1035/353/787	1223/283/787	1035/353/787	1223/283/787		
Others	8.1	Type of drive control		Impulse/AC	Impulse/AC	Impulse/AC	Impulse/AC	8.1	
	8.2	Operating pressure for attachments	bar	150	150	150	150	8.2	
	8.3	Oil volume for attachments	l/min	20	20	20	20	8.3	
	8.4	Sound level at the driver's ear according to EN 12053	dB(A)	68	68	68	68	8.4	

1) these values change with different battery sizes 2) mast-dependent 3) with load wheel cover add + 30 mm
4) second value for "Drive Plus" 5) second value for "Lift Plus"

This specification sheet according to VDI regulation 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipment etc. could produce other values. Right reserved for technical changes and improvements.

Make use of the advantages



Ergonomic operator cab

Ergonomic operator cab

The operator workplace provides the ideal conditions for relaxed and high performance.

- Fabric seat with adjustment for seating position, backrest and body weight.
- Plenty of storage options.
- Important controls are within easy reach.
- Generous space, even for large drivers.
- Electric steering (select between 180° and 360°).
- Standard automotive layout of pedals.



SOLO-PILOT

SOLO-PILOT control lever

Control lever for activating all hydraulic functions and the horn and for selecting the travel direction.

- All the controls are within the operators field of vision and are clearly designated for each specific function.
- Travel direction switch features intuitive direction change.
- Sensitive control of all functions for operating accuracy within millimetres.
- Extra attachments such as a fork positioner (optional) are also conveniently controlled by the SOLO-PILOT.

Easy-to-read driver's display

High quality operators display showing the most important operating data.

- Travel direction and wheel position display.
- Battery status with display of residual time until the next charging.
- A choice of three travel programmes adapt individually to each application.
- Service hours and time.
- Lift height (optional).
- Load weight (optional).
- Residual capacity (optional).

Strong mast

Jungheinrich masts ensure maximum safety and utilisation of warehouse capacity at high heights.

- Triplex masts with lifting heights up to 10,700 mm.
- Outstanding visibility over the load.
- Lowest clearances for high lift heights.
- Large high residual capacities even at high lift heights.
- Patented mast reach damping (optional).
- Energy recovery through patented regenerative lowering (optional).



Wide variety of options packages

Optional packages for different conditions of use

- "Efficiency" for longest uptime with a battery.
- "Drive Plus" for applications with frequent long routes.
- "Lift Plus" for extensive lifting to high lift heights.
- Holder for radio data terminal, writing pad or video monitor.

Assistance systems (optional)

For more achievement and less load:

- Operation control: The load weight is sequentially measured and compared with the remainder load-carrying capacity of the vehicle. During approach of the limit value an optical and acoustic warning reference takes place.
- Position control: For a simple and a fast a piles without additional pressing of keys.
- Warehouse control: Orders for pile are transferred automatically by the stock management system. Thus false storages are avoided.
- Anti-slip regulation (ASR): For more traction on wet or dusty grounds.

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