

Reach mast technology saves space

Maximum throughput with the lowest energy consumption

Generous operator workplace

Sensitive handling while driving and lifting

Assistance systems to adapt trucks to your specific application



ETV/ETM 214/216

Electric reach truck (1,400/1,600 kg)

Space-saving design, high performance data, innovative technology and optimum ergonomic working conditions. These are the strengths of the Jungheinrich ETM/ETV 214/216 reach trucks. Whether for handling pallets, operating in drive-through or drive-in racking. Whether for extremely narrow areas or low clearances. Whether for single shift or multishift applications: the ETV 214/216 reach trucks offer the perfect solution for every application.

The main advantages:

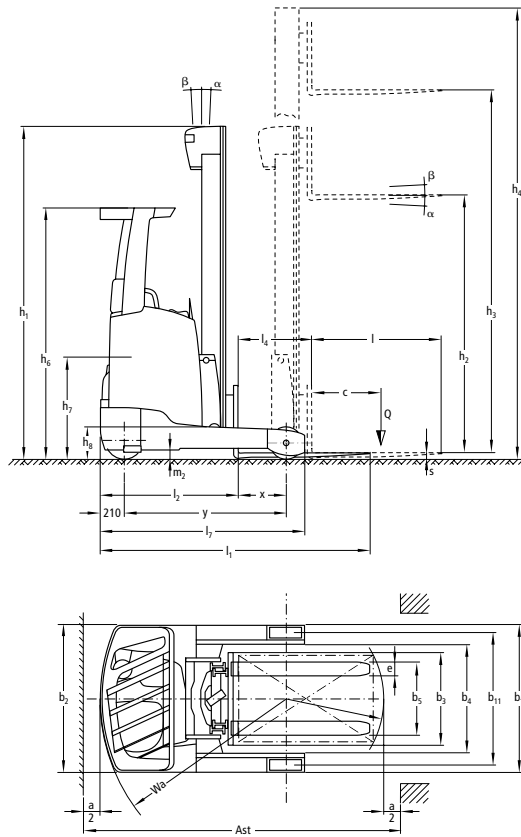
- Space saving with narrow aisle widths from 2711 mm.
- Residual capacities of 1000 kg up to more than 10 metres lift height.
- The very latest drive and control technology ensure greater throughput whilst at the same time reducing energy consumption.

The advanced ergonomics and technology promote productivity and motivate operators, thanks to:

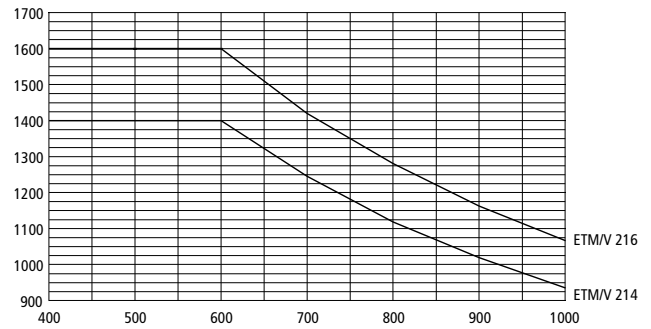
- A generously dimensioned cab and outstanding visibility both during travel and when stacking and retrieving.

- Automotive layout of pedals.
 - Curve Control – the automatic reductions of speed when cornering.
- 180° and 360° steering: Allows the operator to select between minimum turning radius and rapid change in travel direction.
- 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.

ETV/ETM 214/216



Capacity



Load centre distance "c" in mm

Standard mast types ETM 214/ETV 214/ETM 216/ETV 216						
Designation	Lift h_3 (mm)	Closed mast height h_1 (mm)	Free lift h_2 (mm)	Extended mast height h_4 (mm)	Mast tilt forward / back α/β (°)	Tilt forks forward / back ¹⁾ α/β (°)
Triplex DZ	4550	2050	1406	5194	1/5	-
	5000	2200	1556	5644	1/5	2/5
	5300	2300	1656	5944	1/5	2/5
	5600	2400	1756	6244	1/3	2/5
	5900	2500	1856	6544	1/3	2/5
	6200	2600	1956	6844	1/3	2/5
	6500	2700	2056	7144	0,5/2	2/5
	6800	2800	2156	7444	0,5/2	2/5
	7100	2900	2256	7744	0,5/2	2/5
	7400	3000	2356	8044	0,5/1	2/5
	7700	3100	2456	8344	0,5/1	2/5
	8000	3200	2556	8644	0,5/1	2/5
	8300	3300	2656	8944	0,5/1	2/5
	8420	3340	2696	9064	0,5/1	2/5
	8720	3440	2796	9364	0,5/1	2/5
	9020	3540	2896	9664	0,5/1	2/5
	9410	3670	3026	10054	-	2/5
	9920	3840	3196	10564	-	2/5
	10250	3950	3306	10894	-	2/5
	10520	4040	3396	11164	-	2/5
	10700	4100	3456	11344	-	2/5

¹⁾ Fork tilt for ETV series only

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (short form)		Jungheinrich			
	1.2	Model		ETM 214	ETV 214	ETM 216	ETV 216
	1.3	Drive		Electrics			
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		transverse seat			
	1.5	Load capacity/rated load	Q t	1.4	1.4	1.6	1.6
	1.6	Load centre distance	c mm	600			
	1.8	Load distance	x mm	353 ¹⁾	423 ¹⁾	403 ¹⁾	413 ¹⁾
	1.8.1	Load distance, mast reached forward	x ₁ mm	205			
	1.9	Wheelbase	y mm	1410	1410	1460	1460
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	2975	3000	3110	3136
	2.3	Axle load, w.o. load, front / rear	kg	1785 / 1190	1830 / 1170	1835 / 1275	1882 / 1254
	2.4	Axle loading forks forward with load at front / rear	kg	481 / 3894	572 / 3828	518 / 4192	521 / 4215
	2.5	Axle loading forks retracted with load at front / rear	kg	1531 / 2844	1628 / 2772	1649 / 3061	1658 / 3078
Wheels / chassis	3.1	Tyres		Vulkollan ®			
	3.2	Tyre size, at front	mm	Ø 343 x 114			
	3.3	Tyre size, at rear	mm	Ø 285 x 100			
	3.5	Wheels, number front/rear (x = driven wheels)		1x / 2			
	3.7	Track width, rear	b ₁₁ mm	986	1136	986	1136
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β °	1/3 ²⁾			
	4.2	Mast height (lowered)	h ₁ mm	2400			
	4.2.1	Total height	h ₁₅ mm				
	4.3	Free lift	h ₂ mm	1756			
	4.4	Lift	h ₃ mm	5600			
	4.5	Extended mast height	h ₄ mm	6244			
	4.7	Height of overhead guard	h ₆ mm	2190			
	4.8	Seat height/stand height	h ₇ mm	1057			
	4.10	height of support arms	h ₈ mm	285 ⁶⁾			
	4.19	Overall length	l ₁ mm	2418 ¹⁾	2346 ¹⁾	2418 ¹⁾	2408 ¹⁾
	4.20	Length incl. back of forks	l ₂ mm	1268 ¹⁾	1198 ¹⁾	1268 ¹⁾	1258 ¹⁾
	4.21	Total width	b ₁ /b ₂ mm	1120 / 1120	1270 / 1270	1120 / 1120	1270 / 1270
	4.22	Fork dimensions	s/e/l mm	40 / 120 / 1150			
	4.23	Fork carriage ISO 2328, class/type A, B		2B			
	4.24	Fork carriage width	b ₃ mm	830			
	4.25	Width over forks	b ₅ mm	335 / 560	335 / 730	335 / 560	335 / 730
	4.26	Width between support arms/loading surfaces	b ₄ mm	780	940	780	940
	4.28	mast reach	l ₄ mm	558 ¹⁾	628 ¹⁾	608 ¹⁾	618 ¹⁾
	4.32	Floor clearance centre wheelbase	m ₂ mm	80			
Performance data	4.32.1	Ground clearance at lowest point	mm	30			
	4.33	Aisle width for pallets 1000 x 1200 sideways	Ast mm	2702 ¹⁾	2652 ¹⁾	2716 ¹⁾	2709 ¹⁾
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	2757 ¹⁾	2694 ¹⁾	2762 ¹⁾	2753 ¹⁾
	4.35	Turning radius	W _a mm	1620	1620	1670	1670
	4.37	length over the support arms	l ₇ mm	1780	1780	1830	1830
	5.1	Travel speed, w. / w.o. load	km/h	14 / 14 ⁴⁾			
	5.2	Lift speed, w. / w.o. load	m/s	0.51 / 0.7 ⁵⁾	0.51 / 0.7 ⁵⁾	0.48 / 0.7 ⁵⁾	0.48 / 0.7 ⁵⁾
	5.3	Lower speed, w. / w.o. load	m/s	0.55 / 0.55			
	5.4	Traverse speed w. / w.o. load	m/s	0.24 / 0.24 ⁵⁾			
	5.7	Gradeability laden/unladen	%	9 / 13	9 / 13	8 / 12	8 / 12
Electrics	5.8	Max. gradeability, laden/unladen	%	10 / 15			
	5.9	Acceleration time w. / w.o. load	S	4.6 / 4.3 ⁴⁾			
	5.10	Service brake		electric			
	6.1	Drive motor rating S2 60 min.	kW	6.9 ⁴⁾			
	6.2	Lift motor rating at S3 15%	kW	14.0 ⁵⁾			
	6.3	Battery according to DIN 43531/35/36 A,B,C, no		DIN 43531 - B	DIN 43531 - C	DIN 43531 - B	DIN 43531 - C
	6.4	Battery voltage/nominal capacity K5	V/Ah	48 / 465			
	6.5	Battery weight	kg	750			
Misc.	6.6	Energy consumption according to VDI cycle	kWh/h	3.4 ³⁾	3.4 ³⁾	3.6 ³⁾	3.6 ³⁾
	6.7	Throughput efficiency	t/h	64 ³⁾	64 ³⁾	73 ³⁾	73 ³⁾
	6.8	Energy consumption at max. throughput	kWh/h	3.7 ³⁾	3.7 ³⁾	3.8 ³⁾	3.8 ³⁾
	8.1	Type of drive control		Mosfet / AC			
	8.2	working pressure for attachments	bar	150			
	8.3	oil flow for attachments	l/min	20			
	8.4	Sound pressure level at operator's ear according to EN 12053	dB (A)	68			

¹⁾ different battery sizes change these values

²⁾ mast-dependent

³⁾ With Drive & Lift Plus options package

⁴⁾ With Drive Plus options package

⁵⁾ With Lift Plus options package

⁶⁾ With load wheel cover: + 30 mm

Benefit from the advantages



Ergonomic cab



SOLO-PILOT



Wide variety of options packages



Clear view through panoramic roof

Ergonomic cockpit

The operator position provides ideal working conditions for relaxed, maximum performance.

- Comfort seat with adjustment options for seating position, backrest and body weight.
- Plenty of storage options.
- Important truck controls are within easy reach.
- Generous space, even for tall operators.
- Electric steering (choose 180° or 360°).
- Standard automotive layout of pedals.
- Panoramic overhead guard for an unobstructed view of the raised load (optional).

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 operator display

High-quality control instruments displaying the most important operating data.

- Display of direction of travel and wheel position.
- Battery status with display of time remaining until the next charging.
- A choice of three travel programs for individual adaptation to any needs.
- Operating hours and time of day.
- Lift height (optional).
- Load weight (optional).
- Residual capacity (optional).

High-performance mast

Jungheinrich masts guarantee maximum safety and space utilisation to high lift heights.

- Triplex masts with lifting heights up to 10,700 mm.
- Excellent visibility to the load.
- Lowest clearances at high lift heights.
- High residual capacities even at high lift heights.
- Patented mast -reach cushioning (optional).

- Energy recovery through patented regenerative lowering (optional).

Optional packages for different conditions of use

- 'Efficiency' for the longest operating time with one battery.
- 'Drive Plus' for applications with frequent long routes.
- 'Lift Plus' for extensive lifting to high lift heights.
- Holder for radio data terminal, writing board or video monitor, for example.

Assistance systems (optional)

For more achievement and less stress:

- 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 simple location without additional pressing of keys
- Warehouse control: Orders for location are transferred automatically by the stock management system. Thus false storages are avoided.

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The German production facilities in Norderstedt and Moosburg are certified. **ISO 9001**
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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