

Reach mast technology  
saves space

Maximum throughput with the  
lowest energy consumption

Spacious operators seat

Sensitive handling whilst  
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.

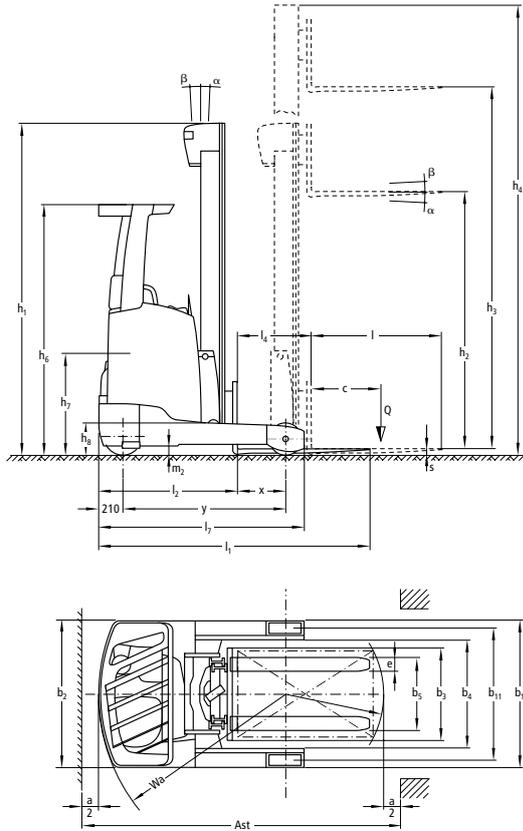
The advanced ergonomics and technology promote productivity and motivate operators, thanks to:

- 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.

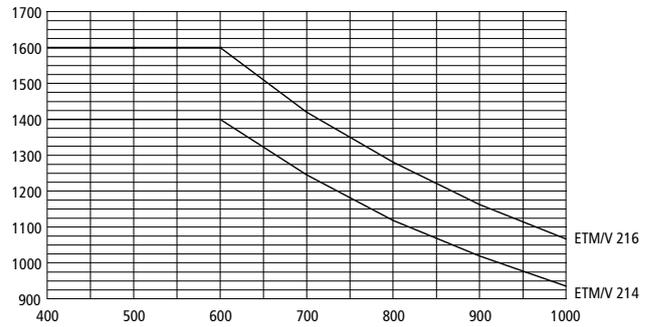
180° and 360° steering: Allows the operator to select between minimum turning radius and rapid change in travel direction.  
SOLO-PILOT control lever: For sensitive stacking, even at high lift heights.

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 (kg)



Load centre distance "c" in mm

ETM 214/ETV 214/ETM 216/ETV 216 standard mast versions						
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 $a/\beta$ (°)	Fork tilt forwards/ backwards <sup>1)</sup> $a/\beta$ (°)
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	

<sup>1)</sup> Fork tilt for ETV series only

# Technical data in line with VDI 2198

		Jungheinrich						
			ETM 214	ETV 214	ETM 216	ETV 216		
Identification	1.1	Manufacturer (abbreviation)						
	1.2	Model						
	1.3	Drive	Electric					
	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 <sup>1)</sup>	423 <sup>1)</sup>	403 <sup>1)</sup>	413 <sup>1)</sup>
	1.8.1	Load distance, mast reached forward	x <sub>1</sub>	mm	205			
	1.9	Wheelbase	y	mm	1,410	1,410	1,460	1,460
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	2,975	3,000	3,110	3,136
	2.3	Axle load without load front/rear		kg	1,785 / 1,190	1,830 / 1,170	1,835 / 1,275	1,882 / 1,254
	2.4	Axle loading forks forward with load at front / rear		kg	481 / 3,894	572 / 3,828	518 / 4,192	521 / 4,215
	2.5	Axle loading forks retracted with load at front / rear		kg	1,531 / 2,844	1,628 / 2,772	1,649 / 3,061	1,658 / 3,078
Wheels / frame	3.1	Tyres	Vulkollan®					
	3.2	Tyre size, front		mm	Ø 343 x 114			
	3.3	Tyre size, rear		mm	Ø 285 x 100			
	3.5	Wheels, number front/rear (x = driven wheels)			1x / 2			
	3.7	Tread width, rear	b <sub>11</sub>	mm	986	1,136	986	1,136
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	$\alpha/\beta$	°	1/3 <sup>2)</sup>			
	4.2	Mast height (lowered)	h <sub>1</sub>	mm	2,400			
	4.3	Free lift	h <sub>2</sub>	mm	1,756			
	4.4	Lift	h <sub>3</sub>	mm	5,600			
	4.5	Extended mast height	h <sub>4</sub>	mm	6,244			
	4.7	Height of overhead guard	h <sub>6</sub>	mm	2,190			
	4.8	Seat height/stand height	h <sub>7</sub>	mm	1,057			
	4.10	height of support arms	h <sub>8</sub>	mm	285 <sup>6)</sup>			
	4.19	Overall length	l <sub>1</sub>	mm	2,418 <sup>1)</sup>	2,346 <sup>1)</sup>	2,418 <sup>1)</sup>	2,408 <sup>1)</sup>
	4.20	Length to face of forks	l <sub>2</sub>	mm	1,268 <sup>1)</sup>	1,198 <sup>1)</sup>	1,268 <sup>1)</sup>	1,258 <sup>1)</sup>
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub>	mm	1,120 / 1,120	1,270 / 1,270	1,120 / 1,120	1,270 / 1,270
	4.22	Fork dimensions	s/e/l	mm	40 / 120 / 1,150			
	4.23	Fork carriage ISO 2328, class/type A, B			2B			
	4.24	Fork carriage width	b <sub>3</sub>	mm	830			
	4.25	Width across forks	b <sub>5</sub>	mm	335 / 560	335 / 730	335 / 560	335 / 730
	4.26	Width between support arms/loading surfaces	b <sub>4</sub>	mm	780	940	780	940
	4.28	Mast reach	l <sub>4</sub>	mm	558 <sup>1)</sup>	628 <sup>1)</sup>	608 <sup>1)</sup>	618 <sup>1)</sup>
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub>	mm	80			
	4.32.1	Ground clearance at lowest point		mm	30			
4.33	Aisle width for pallets 1000 x 1200 sideways	Ast	mm	2,702 <sup>1)</sup>	2,652 <sup>1)</sup>	2,716 <sup>1)</sup>	2,709 <sup>1)</sup>	
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2,757 <sup>1)</sup>	2,694 <sup>1)</sup>	2,762 <sup>1)</sup>	2,753 <sup>1)</sup>	
4.35	Turning radius	W <sub>a</sub>	mm	1,620	1,620	1,670	1,670	
4.37	Length over the support arms	l <sub>7</sub>	mm	1,780	1,780	1,830	1,830	
Performance data	5.1	Travel speed, laden/unladen		km/h	14 / 14 <sup>4)</sup>			
	5.2	Lift speed, laden/unladen		m/s	0.51 / 0.7 <sup>5)</sup>	0.51 / 0.7 <sup>5)</sup>	0.48 / 0.7 <sup>5)</sup>	0.48 / 0.7 <sup>5)</sup>
	5.3	Lowering speed, laden/unladen		m/s	0.55 / 0.55			
	5.4	Traverse speed w. / w.o. load		m/s	0.24 / 0.24 <sup>5)</sup>			
	5.7	Gradeability laden/unladen		%	9 / 13	9 / 13	8 / 12	8 / 12
	5.8	Max. gradeability, laden/unladen		%	10 / 15			
	5.9	Acceleration time w. / w.o. load		S	4.6 / 4.3 <sup>4)</sup>			
	5.10	Service brake			electric			
	Electrics	6.1	Drive motor, output S2 60 min.		kW	6.9 <sup>4)</sup>		
		6.2	Lift motor, output at S3 15%		kW	14.0 <sup>5)</sup>		
6.3		Battery as per 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			
6.6		Energy consumption according to VDI cycle		kWh/h	3.4 <sup>3)</sup>	3.4 <sup>3)</sup>	3.6 <sup>3)</sup>	3.6 <sup>3)</sup>
6.7		Throughput		t/h	64 <sup>3)</sup>	64 <sup>3)</sup>	73 <sup>3)</sup>	73 <sup>3)</sup>
6.8		Energy consumption at max. throughput		kWh/h	3.7 <sup>3)</sup>	3.7 <sup>3)</sup>	3.8 <sup>3)</sup>	3.8 <sup>3)</sup>
Misc.	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 as per EN 12053		dB (A)	68			

<sup>1)</sup> different battery sizes change these values

<sup>2)</sup> mast-dependent

<sup>3)</sup> With Drive & Lift Plus options package

<sup>4)</sup> With Drive Plus options package

<sup>5)</sup> With Lift Plus options package

<sup>6)</sup> With load wheel cover: + 30 mm

# Benefit from the advantages



Ergonomic cab



SOLO-PILOT



Unobstructed visibility thanks to panorama roof



Wide variety of options packages

## 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).

## Ergonomic cockpit

The comfort of the operator's seat provides the ideal working conditions for maximum performance.

- Fabric 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° mode). When driving in a straight line, the steering wheel spinner knob is always at the optimum ergonomic position.

- Standard automotive layout of pedals.

## SOLO-PILOT control lever

- The control lever for activating all hydraulic functions and also selecting the direction of travel and the horn:
- All the controls are within the operator's 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.
- Additional attachments, such as fork positioners (optional), are also easily controlled with the SOLO-PILOT.

## Easy-to-read operator display

High-quality control instruments for 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 programmes for individual adaptation to any needs.
- Operating hours and time of day.
- Lift height (optional)
- Load weight (optional)

## Assistance systems (optional)

For more power and less load:

- Operation Control: The load weight is sequentially measured and compared with the residual capacity of the truck. If the limit value is approached, a visual and acoustic warning is issued.
- Position Control: For a simple and rapid stacking without the pressing of additional buttons.
- Warehouse Control: Stacking orders are transferred automatically by the warehouse management system. This prevents stacking errors.
- Anti-slip system: For more traction on wet or dusty surfaces.

## 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.

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The German production facilities in Norderstedt, Moosburg and Landsberg are certified.

ISO 9001  
ISO 14001

Jungheinrich fork lift trucks meet European safety requirements.



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