

Powerful and efficient 3-phase
AC drive, lift and steer control

Ergonomic and spacious operator
compartment

Compact design for maximum
maneuverability

The right performance package for
your business



ETV / ETM 214 / 216

Sit-Down Moving Mast Reach Truck (3,000-3,500 lbs.)

The ETV / ETM 214 / 216 reach trucks offer the right solution for a wide range of applications. What features are most important to your business?

- **Performance** – Can drive up to 8.7 mph¹⁾ (loaded or unloaded) with excellent acceleration characteristics.
- **Energy efficient** – Jungheinrich® 4th generation AC technology allows for up to two shifts on a single battery charge.
- **Outstanding residual capacities** – With lift heights over 35 feet, this truck can reach your tallest racks and can typically retain full capacity over 27 feet (depending on the reach truck configuration).

Premium ergonomics come standard with our moving mast reach trucks. This includes:

- Spacious, highly-adjustable operator compartment suitable for a wide range of operators.
- Automotive-style drive pedals allow for intuitive operation.
- The soloPILOT and multiPILOT control handles are both ergonomic and highly productive.
- The driving direction switch is a different color for better visibility. The horn button is integrated in the front area for faster operation. The optional acknowledgement button for clamped attachments is integrated for easy and fast operation.

- curveCONTROL, which provides automatic speed reduction during cornering, provides the operator with confidence while driving the reach truck, particularly when working in confined areas.

¹⁾ With drivePLUS Option. Refer to specification sheet for standard drive speeds.

Technical data

					Jungheinrich		Jungheinrich			
					ETM 214		ETV 214			
Characteristics	1.1	Manufacturer			Jungheinrich		Jungheinrich			
	1.2	Model			ETM 214		ETV 214			
		G = fork, E = integrated sideshift			GE		GE			
	1.3	Drive			electric		electric			
	1.4	Type of operation			seated		seated			
	1.5	Load capacity / rated load	Q	lbs	kg	3,000	1,380	3,000	1,380	
	1.6	Load center distance	c	in	mm	24	610	24	610	
	1.8	Load distance, center of drive axle to fork	x	in	mm	13.6 ¹⁾	345 ¹⁾	16.4 ¹⁾	417 ¹⁾	
		Mast pushed forward	x ₁	in	mm	8.1	205	8.1	205	
1.9	Wheelbase	y	in	mm	55.5	1,410	55.5	1,410		
Weights	2.1	Service weight including battery (see line 6.5)			lbs	kg	6,545	2,975	6,600	3,000
	2.3	Axle loading – unloaded, drive / load			lbs	kg	3,935 / 2,623	1,785 / 1,190	4,034 / 2,574	1,830 / 1,170
	2.4	Axle loading – fork advanced, loaded drive / load			lbs	kg	1,060 / 8,585	481 / 3,894	1,262 / 8,440	572 / 3,828
	2.5	Axle loading – fork retracted, loaded drive / load			lbs	kg	3,376 / 6,270	1,531 / 2,844	3,590 / 6,112	1,628 / 2,772
	3.1	Tires			Vulkollan®		Vulkollan®			
3.2	Tire size, drive		in	mm	13.5 x 4.5	343 x 114	13.5 x 4.5	343 x 114		
3.3	Tire size, load		in	mm	11.2 x 3.9	285 x 100	11.2 x 3.9	285 x 100		
3.5	Wheels – number, drive / load (x = driven wheels)			1x / 2		1x / 2				
3.7	Track width, load side	b ₁₁	in	mm	38.8	986	44.7	1,136		
Dimensions	4.1	Mast – fork carriage tilt, forward / backward			degrees				1 / 3 ²⁾	1 / 3 ²⁾
	4.2	Collapsed mast height	h ₁	in	mm	103	2,600	103	2,600	
	4.3	Free-lift	h ₂	in	mm	61 ⁷⁾	1,956	61 ⁷⁾	1,956	
	4.4	Maximum fork height (MFH)	h ₃	in	mm	244	6,200	244	6,200	
	4.5	Overall extended height (OAE)	h ₄	in	mm	309	6,844	309	6,844	
	4.7	Overhead load guard (cab) height	h ₆	in	mm	86.3	2,190	86.3	2,190	
	4.8	Seat height / standing height	h ₇	in	mm	37.8	960	37.8	960	
	4.10	Height of wheel arms	h ₈	in	mm	12.5	315	12.5	315	
	4.19	Overall length	l ₁	in	mm	95.2 ¹⁾	2,418 ¹⁾	92.4 ¹⁾	2,346 ¹⁾	
	4.20	Length to fork face, headlength	l ₂	in	mm	50.0 ¹⁾	1,268 ¹⁾	47.1 ¹⁾	1,196 ¹⁾	
	4.21	Overall width	b ₁ / b ₂	in	mm	44.1 / 44.1	1,120 / 1,120	50 / 50	1,270 / 1,270	
	4.22	Fork dimensions, thick / width	s / e / l	in	mm	1.6 / 4.7 / 45.3	40 / 120 / 1,150	1.6 / 4.7 / 45.3	40 / 120 / 1,150	
	4.23	Fork carriage, ISO class / type A, B			2 / B				2 / B	
	4.24	Fork carriage width	b ₃	in	mm	32.7	830	32.7	830	
	4.25	Overall fork width	b ₅	in	mm	13.2 / 22.1	335 / 560	13.2 / 28.7	335 / 730	
	4.26	Distance between wheel arms / loading surfaces	b ₄	in	mm	30.7	782	37	942	
	4.32	Ground clearance, center of wheelbase	m ₂	in	mm	3.14	80	3.14	80	
4.33	Aisle width (for 48 x 40 pallets)	Ast	in	mm	111 ³⁾	2,819 ³⁾	111 ³⁾	2,819 ³⁾		
4.37	Length to tip of outrigger	l ₇	in	mm	70.6	1,792	70.6	1,792		
Performance	5.1	Travel speed, loaded / unloaded			mph	kph	6.8-8.7 ⁵⁾	11-14 ⁵⁾	6.8-8.7 ⁵⁾	11-14 ⁵⁾
	5.2	Lift speed, loaded / unloaded			ft / min	m / s	74.8-100.4 / 137.8 ⁶⁾	0.38-0.51 / 0.070 ⁴⁾	74.8-100.4 / 137.8 ⁶⁾	0.38-0.51 / 0.070 ⁴⁾
	5.3	Lowering speed, loaded / unloaded			ft / min	m / s	108.3	0.55	108.3	0.55
	5.4	Reach speed, loaded / unloaded			ft / min	m / s	39.4-47.2 ⁶⁾	0.20-0.24 ⁴⁾	39.4-47.2 ⁶⁾	0.20-0.24 ⁴⁾
	5.7	Gradeability, loaded / unloaded			%				9 / 13	9 / 13
	5.8	Maximum gradeability, loaded / unloaded			%				10 / 15	10 / 15
	5.9	Acceleration time, loaded / unloaded			sec				5.1-4.6 / 4.8-4.3 ³⁾	5.1-4.6 / 4.8-4.3 ³⁾
	5.10	Service brake							electric	electric
	6.1	Drive motor (rating S ₂ 60 minutes)			kW / hp				6.0-8.5 / 8.0-11.4 ⁵⁾	6.0-8.5 / 8.0-11.4 ⁵⁾
	6.2	Lift motor rating at S ₃ 15%			kW / hp				13.3-15.5 / 17.8-20.8 ⁶⁾	13.3-15.5 / 17.8-20.8 ⁶⁾
6.4	Battery voltage			V	Ah	48	500	48	500	
6.5	Battery weight, minimum			lbs	kg	1,653	750	1,653	750	
	Battery dimensions, l / w / h			in	mm	40.7 / 13.9 / 31.0	1,035 / 353 / 787	48.1 / 11.1 / 31.0	1,223 / 283 / 787	
Other Details	8.1	Type of drive control			impulse / AC				impulse / AC	
	8.2	Operating pressure for attachments			psi	bar	2,176	150	2,176	150
	8.3	Oil volume for attachments			gal/min	l/min	5.3	20	5.3	20
	8.4	Sound level at driver's ear			dB (A)				68	68

1) Other battery sizes change these values

2) Dependent on type of mast

3) Including 8 inch (200 mm) maneuvering space; second value is for floor storage

4) Lift height up to 220.5 inches

5) Second value for "Drive Plus" option

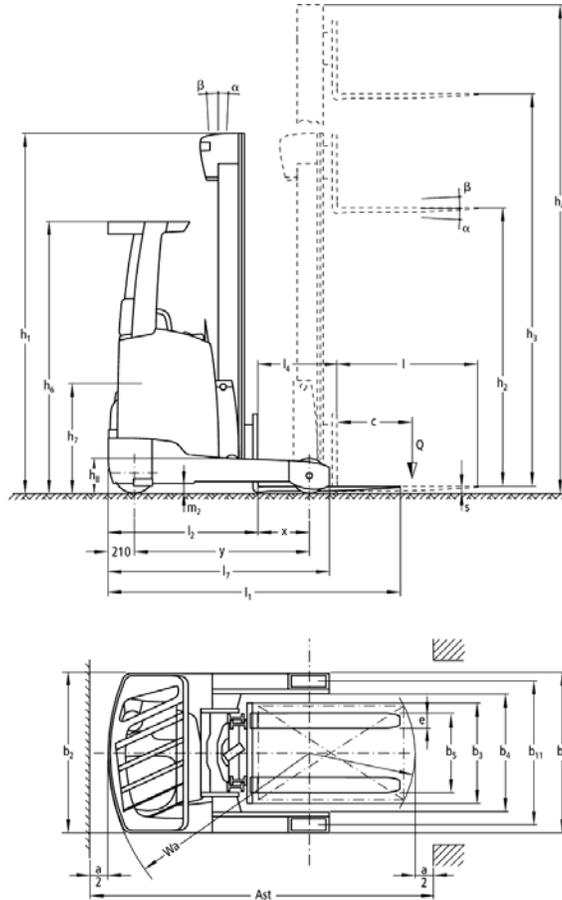
6) Second value for "Lift Plus" option

7) Includes load backrest of 39.5 inches / 1,000 mm

This specification sheet only provides technical values for the standard truck. Non-standard tires, different masts, additional equipment, etc., could produce other values. Rights reserved for technical changes and improvements.

Characteristics	1.1	Manufacturer			Jungheinrich		Jungheinrich			
	1.2	Model			ETM216		ETV 216			
		G = fork, E = integrated sideshift			GE		GE			
	1.3	Drive			electric		electric			
	1.4	Type of operation			seated		seated			
	1.5	Load capacity / rated load	Q	lbs	kg	3,500	1,580	3,500	1,580	
	1.6	Load center distance	c	in	mm	24	610	24	610	
	1.8	Load distance, center of drive axle to fork	x	in	mm	15.6 ¹⁾	395 ¹⁾	15.6 ¹⁾	396 ¹⁾	
		Mast pushed forward	x ₁	in	mm	8.1	205	8.1	205	
1.9	Wheelbase	y	in	mm	57.5	1,460	57.5	1,460		
Weights	2.1	Service weight including battery (see line 6.5)			lbs	kg	6,842	3,110	6,899	3,136
	2.3	Axle loading – unloaded, drive / load			lbs	kg	4,045 / 2,811	1,835 / 1,275	4,149 / 2,765	1,882 / 1,254
	2.4	Axle loading – fork advanced, loaded drive / load			lbs	kg	1,142 / 9,242	518 / 4,192	1,149 / 9,293	521 / 4,215
	2.5	Axle loading – fork retracted, loaded drive / load			lbs	kg	3,636 / 6,749	1,649 / 3,061	3,656 / 6,786	1,658 / 3,078
	3.1	Tires			Vulkollan®		Vulkollan®			
3.2	Tire size, drive		in	mm	13.5 x 4.5	343 x 144	13.5 x 4.5	343 x 144		
3.3	Tire size, load		in	mm	11.2 x 3.9	285 x 100	11.2 x 3.9	285 x 100		
3.5	Wheels – number, drive / load (x = driven wheels)			1x / 2		1x / 2				
3.7	Track width, load side	b ₁₁	in	mm	38.8	986	44.7	1,136		
Dimensions	4.1	Mast – fork carriage tilt, forward / backward			degrees		1 / 3 ²⁾			
	4.2	Collapsed mast height	h ₁	in	mm	103	2,600	103	2,600	
	4.3	Free-lift	h ₂	in	mm	61 ⁷⁾	1,956	61 ⁷⁾	1,956	
	4.4	Maximum fork height (MFH)	h ₃	in	mm	244	6,200	244	6,200	
	4.5	Overall extended height (OAE)	h ₄	in	mm	309	6,844	309	6,844	
	4.7	Overhead load guard (cab) height	h ₆	in	mm	86.3	2,190	86.3	2,190	
	4.8	Seat height / standing height	h ₇	in	mm	37.8	960	37.8	960	
	4.10	Height of wheel arms	h ₈	in	mm	12.5	315	12.5	315	
	4.19	Overall length	l ₁	in	mm	95.2 ¹⁾	2,418 ¹⁾	95.2 ¹⁾	2,418 ¹⁾	
	4.20	Length to fork face, headlength	l ₂	in	mm	50.0 ¹⁾	1,268 ¹⁾	50.0 ¹⁾	1,268 ¹⁾	
	4.21	Overall width	b ₁ / b ₂	in	mm	44.1 / 44.1	1,120 / 1,120	50 / 50	1,270 / 1,270	
	4.22	Fork dimensions, thick / width	s / e / l	in	mm	1.6 / 4.7 / 45.3	40 / 120 / 1,150	1.6 / 4.7 / 45.3	40 / 120 / 1,150	
	4.23	Fork carriage, ISO class / type A, B			2 / B		2 / B			
	4.24	Fork carriage width	b ₃	in	mm	32.7	830	32.7	830	
	4.25	Overall fork width	b ₅	in	mm	13.2 / 22.1	335 / 560	13.2 / 28.7	335 / 730	
4.26	Distance between wheel arms / loading surfaces	b ₄	in	mm	30.7	782	37	942		
4.32	Ground clearance, center of wheelbase	m ₂	in	mm	3.14	80	3.14	80		
4.33	Aisle width (for 48 x 40 pallets)	Ast	in	mm	112 ³⁾	2,845 ³⁾	12 ³⁾	2,845 ³⁾		
4.37	Length to tip of outrigger	l ₇	in	mm	72.5	1,842	72.5	1,842		
Performance	5.1	Travel speed, loaded / unloaded			mph	kph	6.8 - 8.7 ⁵⁾	11 - 14 ³⁾	6.8 - 8.7 ⁵⁾	11 - 14 ³⁾
	5.2	Lift speed, loaded / unloaded			ft / min	m / s	68.9-94.5 / 137.8 ⁶⁾	0.35-0.48 / 0.070 ⁴⁾	68.9-94.5 / 137.8 ⁶⁾	0.35-0.48 / 0.070 ⁴⁾
	5.3	Lowering speed, loaded / unloaded			ft / min	m / s	108.3	0.55	108.3	0.55
	5.4	Reach speed, loaded / unloaded			ft / min	m / s	39.4-47.2 ⁶⁾	0.20-0.24 ⁴⁾	39.4-47.2 ⁶⁾	0.20-0.24 ⁴⁾
	5.7	Gradeability, loaded / unloaded			%		8 / 12		8 / 12	
	5.8	Maximum gradeability, loaded / unloaded			%		10 / 15		10 / 15	
	5.9	Acceleration time, loaded / unloaded			sec		5.1-4.6 / 4.8-4.3 ³⁾		5.1-4.6 / 4.8-4.3 ³⁾	
	5.10	Service brake					electric		electric	
	6.1	Drive motor (rating S ₂ 60 minutes)			kW / hp		6.0-8.5 / 8.0-11.4 ⁵⁾		6.0-8.5 / 8.0-11.4 ⁵⁾	
	6.2	Lift motor rating at S ₃ 15%			kW / hp		13.3-15.5 / 17.8-20.8 ⁶⁾		13.3-15.5 / 17.8-20.8 ⁶⁾	
6.4	Battery voltage			V	Ah	48	500 ¹⁾	48	500 ¹⁾	
6.5	Battery weight, minimum			lbs	kg	1,653	750	1,653	750	
	Battery dimensions, l / w / h			in	mm	40.7 / 13.9 / 31.0	1,035 / 353 / 787	48.1 / 11.1 / 31.0	1,223 / 283 / 787	
Other Details	8.1	Type of drive control					impulse / AC		impulse / AC	
	8.2	Operating pressure for attachments			psi	bar	2,176	150	2,176	150
	8.3	Oil volume for attachments			gal/min	l/min	5.3	20	5.3	20
	8.4	Sound level at driver's ear			dB (A)		68		68	
1) Other battery sizes change these values										
2) Dependent on type of mast										
3) Including 8 inch (200 mm) maneuvering space; second value is for floor storage										
4) Lift height up to 220.5 inches										
5) Second value for "Drive Plus" option										
6) Second value for "Lift Plus" option										
7) Includes load backrest of 39.5 inches / 1,000 mm										

ETV/ETM 214/216



Mast Table ETV / ETM 214 / 216

	Collapsed mast height h_1		Lift height h_3		Free lift h_2		Extended mast height h_4		Mast tilt forward / backward	Fork tilt forward / backward*
	in	mm	in	mm	in	mm	in	mm	$\alpha^\circ / \beta^\circ$	$\alpha^\circ / \beta^\circ$
Three-stage mast DZ (Full free-lift)	81	2,050	179	4,550	39.5	1,406	221	5,194	1 / 5	—
	87	2,200	196	5,000	45.5	1,556	238	5,644	1 / 5	2 / 5
	91	2,300	208	5,300	49	1,656	250	5,944	1 / 5	2 / 5
	95	2,400	220	5,600	53	1,756	262	6,244	1 / 3	2 / 5
	99	2,500	232	5,900	57	1,856	274	6,544	1 / 3	2 / 5
	103	2,600	244	6,200	61	1,956	286	6,844	1 / 3	2 / 5
	107	2,700	255	6,500	65	2,056	297	7,144	0.5 / 2	2 / 5
	111	2,800	267	6,800	69	2,156	309	7,444	0.5 / 2	2 / 5
	115	2,900	279	7,100	73	2,256	321	7,744	0.5 / 2	2 / 5
	119	3,000	291	7,400	77	2,356	333	8,044	0.5 / 2	2 / 5
	123	3,100	303	7,700	80.5	2,456	345	8,344	0.5 / 2	2 / 5
	126	3,200	314	8,000	84.5	2,556	357	8,644	0.5 / 2	2 / 5
	130	3,300	326	8,300	88.5	2,656	368	8,944	0.5 / 2	2 / 5
	132	3,340	331	8,420	90	2,696	373	9,064	0.5 / 2	2 / 5
	136	3,440	343	8,720	94	2,796	385	9,364	0.5 / 2	2 / 5
	140	3,540	355	9,020	98	2,896	397	9,664	0.5 / 2	2 / 5
	145	3,670	370	9,410	103	3,026	412	10,054	—	2 / 5
152	3,840	390	9,920	110	3,196	432	10,564	—	2 / 5	
156	3,950	403	10,250	114	3,306	445	10,894	—	2 / 5	
160	4,040	414	10,520	117	3,396	456	11,164	—	2 / 5	
162	4,100	421	10,700	120	3,456	463	11,344	—	2 / 5	

*Includes standard load backrest with height 39.5 inches.



The Jungheinrich Advantage

Jungheinrich's AC technology

- Jungheinrich's 4th generation AC technology provides improved performance and energy efficiency.
- Sealed motors, controllers and connectors provide for better durability especially when working in dusty or damp applications.
- AC Electric Power Steering provides improved serviceability, performance and energy efficiencies.
- AC motors lower maintenance costs by removing wear items commonly found in DC motors, such as contactors, brushes and springs.

Premium ergonomics

- Full suspension fabric seat with fore/aft, backrest and weight adjustments.
- Highly-adjustable operator compartment, which allows operators of various sizes to be comfortable and productive.
- Ergonomic and intuitive operator controls.

- All drive and hydraulic functions are comfortably controlled by either the multiPILOT or soloPILOT control handles.
- Low effort AC electric power steering.
- Premium, state-of-the-art 4" LED color display.
- Provides immediate feedback to both the operator and technician.
- 360° steer direction indicator.
- Battery discharge indicator.
- Three performance modes which can be modified to suit any application.
- Optional readouts such as lift height indicator and load weight display.

Robust and durable mast design

- Outstanding residual capacities.
- Excellent visibility both through and around the mast.
- Patented and proprietary mast reach cushioning allows for an improvement in operational productivities.
- Optional regenerative lowering can provide even more battery life, especially in those high lift applications.



multiPILOT hydraulic control (optional)

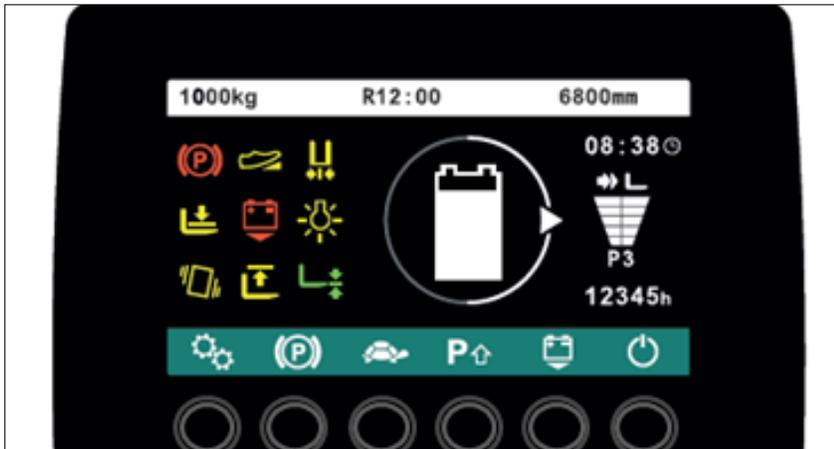
Performance-enhancing options to meet your application

- drivePLUS option increases drive speeds to 8.7 mph which can be especially beneficial for large warehouse applications.
- liftPLUS option increases lift speeds which can be advantageous in high lift applications.
- Anti-Slip Regulation (ASR) option for controlled acceleration on smooth or wet surfaces.
- A wide range of lift and lower limit options.

Parts when you need them

Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 PM of all Jungheinrich parts in the United States, or they're free, including freight. For customers in Canada and Mexico, the guarantee ensures shipping of parts within 24 hours from the time the order was placed by the dealer. See your local Jungheinrich dealer for program details.

* Programs may be subject to change without notice and may vary by region. Please ask your local Jungheinrich dealer for complete terms and conditions.



Informative Display