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 to meet your application's needs

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 any application. What features are most important in your application?

- Performance – Can drive up to 8.7 mph[1)] (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 all moving mast reach trucks.

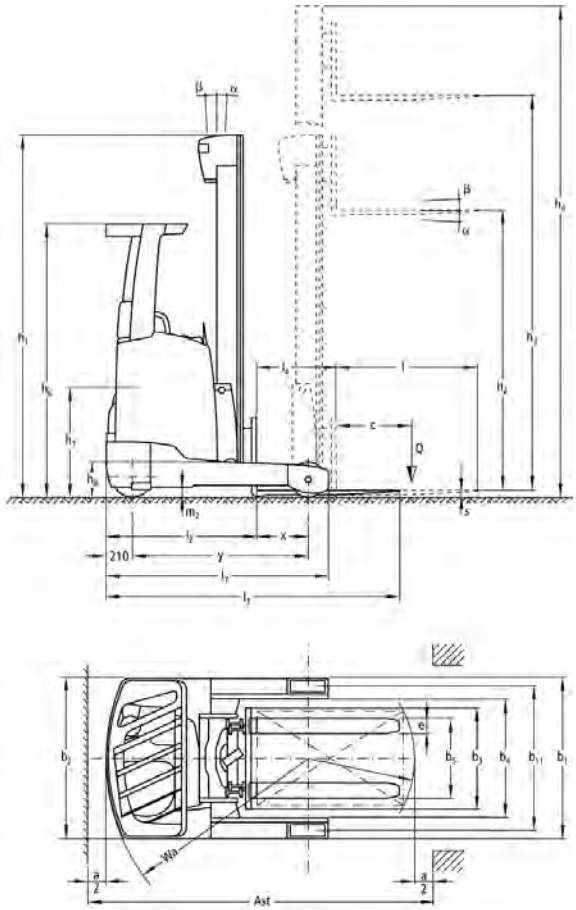
- Spacious, highly-adjustable operator compartment allows for a multitude of operators.
- Automotive-style drive pedals allow for intuitive operation.
- The Solo-Pilot and Multi-Pilot control handles are both ergonomic and highly productive.
- Curve Control (automatic speed reduction during cornering) provides the operator with confidence while driving the truck, particularly when working in confined areas.

1) With "Drive Plus" Option. Refer to specification sheet for standard drive speeds.

JUNGHEINRICH

Machines. Ideas. Solutions.

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*	α° / β°	α° / β°
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 / 1	2 / 5
	123	*3,100*	303	*7,700*	80.5	*2,456*	345	*8,344*	0.5 / 1	2 / 5
	126	*3,200*	314	*8,000*	84.5	*2,556*	357	*8,644*	0.5 / 1	2 / 5
	130	*3,300*	326	*8,300*	88.5	*2,656*	368	*8,944*	0.5 / 1	2 / 5
	132	*3,340*	331	*8,420*	90	*2,696*	373	*9,064*	0.5 / 1	2 / 5
	136	*3,440*	343	*8,720*	94	*2,796*	385	*9,364*	0.5 / 1	2 / 5
	140	*3,540*	355	*9,020*	98	*2,896*	397	*9,664*	0.5 / 1	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

Technical Data

Characteristics	1.1	Manufacturer			Jungheinrich		Jungheinrich	
	1.2	Model			**ETM 214**		**ETV 214**	
		G=fork; E=integrated sideshifter			GE		GE	
	1.3	Drive			electric		electric	
	1.4	Type of operation			seat		seat	
	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*
Wheels, Chassis	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, 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 across wheel arms	l_7	in / *mm*	70.6	*1,792*	70.6	*1,792*
Performance	5.1	Travel speed, loaded / unloaded		mph / *kmh*	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*	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	
Motors	6.1	Drive motor (rating S_2 60 minutes)		kW / hp	4.5-6.9 / 6.0-9.3[5)]		4.5-6.9 / 6.0-9.3[5)]	
	6.2	Lift motor rating at S_3 15%		kW / hp	10-14 / 13.4-18.8[6)]		10-14 / 13.4-18.8[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	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 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

Characteristics	1.1	Manufacturer				Jungheinrich		Jungheinrich		1.1
	1.2	Model				**ETM216**		**ETV216**		1.2
		G=fork; E=integrated sideshifter				GE		GE		
	1.3	Drive				electric		electric		1.3
	1.4	Type of operation				seat		seat		1.4
	1.5	Load capacity / rated load	Q	lbs	*kg*	3,500	*1,580*	3,500	*1,580*	1.5
	1.6	Load center distance	c	in	*mm*	24	*610*	24	*610*	1.6
	1.8	Load distance, center of drive axle to fork	x	in	*mm*	15.6[1]	*395*[1]	15.6[1]	*395*[1]	1.8
		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*	1.9
Weights	2.1	Service weight including battery (see line 6.5)		lbs	*kg*	6,842	*3,110*	6,899	*3,136*	2.1
	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*	2.3
	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*	2.4
	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*	2.5
Wheels, Chassis	3.1	Tires				Vulkollan®		Vulkollan®		3.1
	3.2	Tire size, drive		in	*mm*	13.5 x 4.5	*343 x 144*	13.5 x 4.5	*343 x 144*	3.2
	3.3	Tire size, load		in	*mm*	11.2 x 3.9	*285 x 100*	11.2 x 3.9	*285 x 100*	3.3
	3.5	Wheels – number, drive / load (x = driven wheels)				1x / 2		1x / 2		3.5
	3.7	Track width, load side	b_{11}	in	*mm*	38.8	*986*	44.7	*1,136*	3.7
Dimensions	4.1	Mast – fork carriage tilt, forward / backward		degrees		1 / 3[2]		1 / 3[2]		4.1
	4.2	Collapsed mast height	h_1	in	*mm*	103	*2,600*	103	*2,600*	4.2
	4.3	Free-lift	h_2	in	*mm*	61[7]	*1,956*	61[7]	*1,956*	4.3
	4.4	Maximum fork height (MFH)	h_3	in	*mm*	244	*6,200*	244	*6,200*	4.4
	4.5	Overall extended height (OAE)	h_4	in	*mm*	309	*6,844*	309	*6,844*	4.5
	4.7	Overhead load guard (cab) height	h_6	in	*mm*	86.3	*2,190*	86.3	*2,190*	4.7
	4.8	Seat height / standing height	h_7	in	*mm*	37.8	*960*	37.8	*960*	4.8
	4.10	Height of wheel arms	h_8	in	*mm*	12.5	*315*	12.5	*315*	4.10
	4.19	Overall length	l_1	in	*mm*	95.2[1]	*2,418*[1]	95.2[1]	*2,418*[1]	4.19
	4.20	Length to fork face, headlength	l_2	in	*mm*	50.0[1]	*1,268*[1]	50.0[1]	*1,268*[1]	4.20
	4.21	Overall width	b_1 / b_2	in	*mm*	44.1 / 44.1	*1,120 / 1,120*	50 / 50	*1,270 / 1,270*	4.21
	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*	4.22
	4.23	Fork carriage, class / type A,B				2 / B		2 / B		4.23
	4.24	Fork carriage width	b_3	in	*mm*	32.7	*830*	32.7	*830*	4.24
	4.25	Overall fork width	b_5	in	*mm*	13.2 / 22.1	*335 / 560*	13.2 / 28.7	*335 / 730*	4.25
	4.26	Distance between wheel arms / loading surfaces	b_4	in	*mm*	30.7	*782*	37	*942*	4.26
	4.32	Ground clearance, center of wheelbase	m_2	in	*mm*	3.14	*80*	3.14	*80*	4.32
	4.33	Aisle width (for 48 x 40 pallets)	Ast	in	*mm*	112[3]	*2,845*[3]	112[3]	*2,845*[3]	4.33
	4.37	Length across wheel arms	l_7	in	*mm*	72.5	*1,842*	72.5	*1,842*	4.37
Performance	5.1	Travel speed, loaded / unloaded		mph	*kmh*	6.8-8.7[5]	*11-14*[3]	6.8-8.7[5]	*11-14*[3]	5.1
	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]	5.2
	5.3	Lowering speed, loaded / unloaded		ft / min	*m/s*	108.3	*0.55*	108.3	*0.55*	5.3
	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]	5.4
	5.7	Gradeability, loaded / unloaded		%		8 / 12		8 / 12		5.7
	5.8	Maximum gradeability, loaded / unloaded		%		10 / 15		10 / 15		5.8
	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]		5.9
	5.10	Service brake				electric		electric		5.10
Motors	6.1	Drive motor (rating S_2 60 minutes)		kW / hp		4.5-6.9 / 6.0-9.3[5]		4.5-6.9 / 6.0-9.3[5]		6.1
	6.2	Lift motor rating at S_3 15%		kW / hp		10-14 / 13.4-18.8[6]		10-14 / 13.4-18.8[6]		6.2
	6.4	Battery voltage		V	*Ah*	48	*500*[1]	48	*500*[1]	6.4
	6.5	Battery weight, minimum		lbs	*kg*	1,653	*750*	1,653	*750*	6.5
		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	8.1	Type of drive control				impulse / AC		impulse / AC		8.1
	8.2	Operating pressure for attachments		psi	*bar*	2,176	*150*	2,176	*150*	8.2
	8.3	Oil volume for attachments		gal / min	*l / min*	5.3	*20*	5.3	*20*	8.3
	8.4	Sound level at driver's ear		dB (A)		68		68		8.4

1) Other battery sizes change these values
2) Dependent on 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

The Jungheinrich® Advantage

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.
- Lower maintenance costs by removing wear items, such as contactors, brushes and springs.

Premium ergonomics
- Full suspension fabric seat with fore/aft, backrest and weight adjustment.
- Highly-adjustable operator compartment, which allows operators of many sizes to be both comfortable and productive.
- Ergonomic and intuitive operator controls.
- All drive and hydraulic functions are comfortably controlled by either the Multi-Pilot or Solo-Pilot control handles.
- Low effort AC electric power steering.
- LCD operator 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.

Ergonomic cab

The controls for every application

Performance-enhancing options to meet your application
- "Drive Plus" option increases drive speeds to 8.7 mph which can be especially beneficial for those large warehouse applications.
- "Lift Plus" option increases lift speeds which can be especially beneficial for those high lift applications.
- Anti-Slip Regulation (ASR) option for controlled acceleration on smooth or wet surfaces.
- A multitude of lift and lower limit options.

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