

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

Ergonomic and spacious operator  
compartment

Compact design for greater maneuverability

The right drive and lifting  
performance package to match  
your material handling needs

Outstanding capacity retention and  
load stability at high lift heights



## ETV 318 / 320 / 325 and ETM 325

### Sit-Down Moving Mast Reach Truck (3,900-5,500 lbs.)

The ETV / ETM 3-series of moving mast reach trucks offers the right solution for a wide range of applications. What features are most important to your business?

- **Performance** – Can drive up to 8.7 mph<sup>1)</sup> (loaded or unloaded) with excellent acceleration characteristics.
- **Energy efficient** – Jungheinrich® 4<sup>th</sup> generation AC technology offers high throughput combined with low energy consumption with the very latest drive and control technology.
- **Outstanding residual capacities** – With lift heights over 42 feet, this truck can reach your tallest racks retaining 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.

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

<sup>1)</sup> With drivePLUS option. Refer to specification sheet for standard drive speeds.

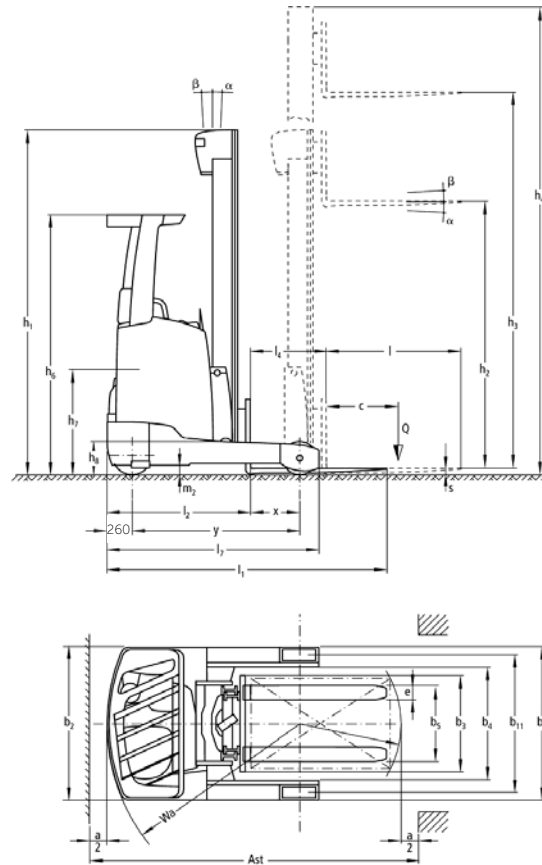
# Technical data

					Jungheinrich		Jungheinrich				
					ETV 318		ETV 320				
Characteristics	1.1	Brand			Jungheinrich		Jungheinrich				
	1.2	Model			ETV 318		ETV 320				
	1.3	Power type			electric		electric				
	1.4	Operator position			transverse seat		transverse seat				
	1.5	Load capacity at rated load center	Q	lb	kg	3,900	1,800	4,400	2,000		
	1.6	Rated load center	c	in	mm	24	600	24	600		
	1.8	Load distance, center of drive axle to fork face	x	in	mm	14.3 <sup>1)</sup>	364 <sup>1)</sup>	16.2 <sup>1)</sup>	412 <sup>1)</sup>		
	1.8a	Additional load distance, mast extended forward	x <sub>1</sub>	in	mm	8.1	205	9.1	230		
	1.9	Wheelbase	y	in	mm	57.5	1,460	59.8	1,518		
Weights	2.1a	Service weight (including battery)			lb	kg	7,765	3,522	8,047	3,650	
	2.3	Axle loading, no load, front / rear			lb	kg	4,572 / 3,192	2,074 / 1,448	4,769 / 3,278	2,163 / 1,487	
	2.4	Axle loading, fork extended, loaded front / rear			lb	kg	983 / 10,750	446 / 4,876	1,230 / 11,226	558 / 5,092	
	2.5	Axle loading, fork retracted, loaded front / rear			lb	kg	3,979 / 7,754	1,805 / 3,517	4,306 / 7,489	1,953 / 3,397	
	Wheels, Chassis	3.1	Tire type / material			in	mm	Vulkollan®		Vulkollan®	
3.2		Tire size front (load)			in	mm	13.5 x 4.5	343 x 114	13.5 x 4.5	343 x 114	
3.3		Tire size rear (drive)			in	mm	11.2 x 3.9	285 x 100	14.0 x 4.2	355 x 106	
3.5		Wheels, number, drive / load (x=driven)					1x / 2		1x / 2		
3.7		Track width, drive / load (center of tires)			b <sub>11</sub>	in	mm	44.7	1,136	45.5	1,155
Dimensions		4.1	Mast or fork carriage tilt forward / backward			a/β	deg °	see mast table below			
	4.2	Lowered mast height			h <sub>1</sub>	in	mm	see mast table below			
	4.3	Fork free lift height (see tables)			h <sub>2</sub>	in	mm	see mast table below			
	4.4	Maximum fork height (see tables)			h <sub>3</sub>	in	mm	see mast table below			
	4.5	Extended mast height (including LBR)			h <sub>4</sub>	in	mm	see mast table below			
	4.7	Overhead guard height (top)			h <sub>6</sub>	in	mm	86.2	2,190	86.2	2,190
	4.8	Ground to seat index point			h <sub>7</sub>	in	mm	41.6	1,057	41.6	1,057
	4.10	Height of wheel arms			h <sub>8</sub>	in	mm	12.4 <sup>2)</sup>	315 <sup>2)</sup>	15.2 <sup>2)</sup>	385 <sup>2)</sup>
	4.19	Overall length (incl. forks)			l <sub>1</sub>	in	mm	95.2 <sup>1(6)</sup>	2,418 <sup>1(6)</sup>	96.8 <sup>1(6)</sup>	2,459 <sup>1(6)</sup>
	4.20	Length to fork face (includes fork thickness)			l <sub>2</sub>	in	mm	51.4	1,306	51.8	1,316
	4.21	Overall width - chassis / wheel legs			b <sub>1</sub> /b <sub>2</sub>	in	mm	50.0 / 50.0	1,270 / 1,270	50.8 / 50.0	1,290 / 1,270
	4.22	Fork dimensions – length x width x thickness			l/e/s	in	mm	45.3x4.7x1.6	1,150x120x40	45.3x5.5x2.0	1,150x140x50
	4.23	Fork carriage type (to ISO 2328, class/type A,B)						2/B		2/B	
	4.24	Fork carriage width			b <sub>3</sub>	in	mm	32.7	830	32.7	830
	4.25	Overall fork width			b <sub>5</sub>	in	mm	13.2 / 28.7	335 / 730	14.0 / 29.5	356 / 750
	4.26	Distance between wheel arms			b <sub>4</sub>	in	mm	37.0	940	37.0	940
	4.28	Reach Distance			l <sub>4</sub>	in	mm	22.4 <sup>1)</sup>	569 <sup>1)</sup>	24.6 <sup>1)</sup>	624 <sup>1)</sup>
	4.32	Ground clearance at center of wheelbase			m <sub>2</sub>	in	mm	3.1	80	3.7	95
	4.32a	Ground clearance at lowest point				in	mm	1.2	30	1.2	30
	4.33	Aisle width (for 40 x 48 pallets L x W)			Ast	in	mm	108.5 <sup>3)</sup>	2,756 <sup>3)</sup>	109.0 <sup>3)</sup>	2,768 <sup>3)</sup>
4.34	Aisle width (for 48 x 48 pallets L x W)			Ast	in	mm	114.7 <sup>3)</sup>	2,913 <sup>3)</sup>	115.0 <sup>3)</sup>	2,921 <sup>3)</sup>	
4.35	Minimum outside turning radius			Wa	in	mm	65.5	1,663	67.3	1,710	
4.37	Length to tip of wheel arms			l <sub>7</sub>	in	mm	72.5	1,842	75.6	1,920	
Performance	5.1	Travel speed, loaded / no load			mph	km/h	8.7 <sup>4)</sup>	14 <sup>4)</sup>	8.7 <sup>4)</sup>	14 <sup>4)</sup>	
	5.2	Lift speed, loaded / no load			fpm	m/s	74.8 / 126.0 <sup>5)</sup>	0.38 / 0.64 <sup>5)</sup>	74.8 / 126.0 <sup>5)</sup>	0.38 / 0.64 <sup>5)</sup>	
	5.3	Lowering speed, loaded / no load			fpm	m/s	108.3	0.55	108.3	0.55	
	5.4	Reaching speed, loaded / no load			fpm	m/s	39.4	0.2	39.4	0.2	
	5.7	Gradeability loaded / no load				%	7	11	7	11	
	5.8	Maximum gradeability loaded / no load				%	9	13	10	15	
	5.9	Acceleration time loaded / no load				Sec	4.6 <sup>4)</sup>	4.2 <sup>4)</sup>	4.6 <sup>4)</sup>	4.2 <sup>4)</sup>	
	5.10	Brakes - service			type		electric		electric		
	Motors	6.1	Drive motor rating S <sub>2</sub> 60 min.			HP	kW	11.4 <sup>4)</sup>	8.5 <sup>4)</sup>	11.4 <sup>4)</sup>	8.5 <sup>4)</sup>
		6.2	Lift motor rating at S <sub>3</sub> 15%			HP	kW	20.8 <sup>5)</sup>	15.5 <sup>5)</sup>	20.8 <sup>5)</sup>	15.5 <sup>5)</sup>
6.4		Battery voltage / nominal capacity K <sub>s</sub>			V	Ah	48	620	48	620	
6.5		Battery weight (minimum /maximum)			lb	kg	1,967 / 2,326 <sup>1)</sup>	892 / 1,055 <sup>1)</sup>	1,967 / 2,326 <sup>1)</sup>	892 / 1,055 <sup>1)</sup>	
6.5.1		Battery dimensions (length x width x height)			in	mm	13.97x48.15x30.87 <sup>1)</sup>	355 x 1,223 x 784 <sup>1)</sup>	13.97x48.15x30.87 <sup>1)</sup>	355 x 1,223 x 784 <sup>1)</sup>	
Other Details		8.1a	Electric control system - drive / hydraulic			type		Impulse / Mosfet AC		Impulse / Mosfet AC	
	8.2	Hydraulic pressure for attachments			PSI	bar	2,175	150	2,175	150	
	8.3	Hydraulic flow rate for attachments			gpm	lpm	5	20	5	20	
	8.4	Sound pressure level at operator's ear according to EN 12053			dB(A)		68		68		

Note: Equipping this model (these models) with a power source (e.g. Lithium-ion, Hydrogen Fuel cell, etc.) that has not been previously approved by the factory is considered a modification. Per OSHA 1910.178 and ANSI/ITSDF B56.1, please consult with your factory representative prior to installing any non-OEM power source that has not been previously approved.

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.

1.1	Jungheinrich		Jungheinrich	
1.2	<b>ETM 325</b>		<b>ETV 325</b>	
1.3	electric		electric	
1.4	transverse seat		transverse seat	
1.5	5,500	2,500	5,500	2,500
1.6	24	600	24	600
1.8	15.3 <sup>1)</sup>	389 <sup>1)</sup>	19.2 <sup>1)</sup>	487 <sup>1)</sup>
1.8a	9.1	230	9.1	230
1.9	65.9	1,673	65.9	1,673
2.1a	8,587	3,895	8,157	3,700
2.3	5,013 / 3,574	2,274 / 1,621	4,991 / 3,574	2,264 / 1,621
2.4	807 / 13,292	366 / 6,029	1,327 / 12,341	602 / 5,598
2.5	4,535 / 9,564	2,057 / 4,338	4,480 / 9,189	2,032 / 4,168
3.1	Vulkollan®		Vulkollan®	
3.2	13.5 x 5.5	343 x 140	13.5 x 5.5	343 x 140
3.3	14.0 x 5.3	355 x 135	14.0 x 5.3	355 x 135
3.5	1x / 2		1x / 2	
3.7	40.7	1,034	46.6	1,184
4.1	see mast table below			
4.2	see mast table below			
4.3	see mast table below			
4.4	see mast table below			
4.5	see mast table below			
4.7	86.2	2,190	86.2	2,190
4.8	41.6	1,057	41.6	1,057
4.10	15.2 <sup>2)</sup>	385 <sup>2)</sup>	15.2 <sup>2)</sup>	385 <sup>2)</sup>
4.19	100.3 <sup>1)6)</sup>	2,547 <sup>1)6)</sup>	100.3 <sup>1)6)</sup>	2,547 <sup>1)6)</sup>
4.20	58.8	1,494	55.0	1,396
4.21	47.2 / 44.1	1,198 / 1,120	53.1 / 50.0	1,348 / 1,270
4.22	45.3x5.5x2.0	1,150x140x50	45.3 x 5.5 x 2.0	1,150x140x50
4.23	2/B		2/B	
4.24	32.7	830	32.7	830
4.25	14.0 / 22.8	356 / 580	14.0 / 29.5	356 / 750
4.26	31.1	790	37.0	940
4.28	27.7 <sup>1)</sup>	703 <sup>1)</sup>	29.0 <sup>1)</sup>	736 <sup>1)</sup>
4.32	3.7	95	3.7	95
4.32a	1.2	30	1.2	30
4.33	115.7 <sup>3)</sup>	2,393 <sup>3)</sup>	113.1 <sup>3)</sup>	2,872 <sup>3)</sup>
4.34	121.9 <sup>3)</sup>	3,095 <sup>3)</sup>	118.8 <sup>3)</sup>	3,018 <sup>3)</sup>
4.35	73.4	1,865	73.4	1,865
4.37	81.7	2,075	81.7	2,075
5.1	8.7	14	8.7	14
5.2	68.9 / 126.0	0.35 / 0.64	68.9 / 126.0	0.35 / 0.64
5.3	108.3	0.55	108.3	0.55
5.4	39.4	0.2	39.4	0.2
5.7	7	11	7	11
5.8	10	15	10	15
5.9	5.4	4.8	5.4	4.8
5.10	electric		electric	
6.1	11.4	8.5	11.4	8.5
6.2	20.8	15.5	20.8	15.5
6.4	48	620	48	620
6.5	2,344 / 2,802 <sup>1)</sup>	1,063 / 1,271 <sup>1)</sup>	1,967 / 2,326 <sup>1)</sup>	892 / 1,055 <sup>1)</sup>
	20.98x40.75x30.87 <sup>1)</sup>	533x1,035x784 <sup>1)</sup>	13.97x48.15x30.87 <sup>1)</sup>	355 x 1,223 x 784 <sup>1)</sup>
8.1a	Impulse / Mosfet AC		Impulse / Mosfet AC	
8.2	2,175	150	2,175	150
8.3	5	20	5	20
8.4	68		68	



- 1) Different battery compartment sizes change these values
- 2) Load wheel covers removed, subtract 1.2 inches / 30mm
- 3) For floor storage with 8 inches maneuvering space included
- 4) With drivePLUS options package
- 5) With liftPLUS options package
- 6) Different fork lengths change these values

# The Jungheinrich Advantage

## Jungheinrich's AC technology

- Jungheinrich's 4<sup>th</sup> 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.

- Low effort AC electric power steering.
- Premium, state-of-the-art 4" LED color display.
- Provides immediate feedback to both the operator and technician. The 4" color display (6" option available) with 480x272 pixels offers warnings in signal color for better readability and modern appearance.
- 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.

## Performance-enhancing options to meet your application

(availability depends on specific model)

- drivePLUS option increases drive speeds up 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.

## 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..
- easyACCESS– Soft-key and easyACCESS PIN-Code.
- All drive and hydraulic functions are comfortably controlled by either the multiPILOT or soloPILOT control handles.

## Robust and durable mast design

- High residual capacities.
- Good 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.
- Laser can be integrated into the fork tip to project a red line on a pallet or beam for better work level awareness, especially when forks are elevated (CSM).

## 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.

Mast Table ETV 318 / 320 / 325 and ETM 325										
	Lift h <sub>3</sub>		Closed Mast Height h <sub>1</sub>		Free lift h <sub>2</sub> *		Extended mast height h <sub>4</sub> *		Mast tilt forward / backward	Tilt forks forward / backward*
	in	mm	in	mm	in	mm	in	mm	α° / β°	α° / β°
Three-stage mast DZ (Full free-lift)	167	4,250	81	2,050	41	1,050	207	5,250	1 / 5	—
	185	4,700	87	2,200	47	1,200	225	5,700	1 / 5	—
	196	5,000	91	2,300	51	1,300	237	6,000	1 / 5	—
	208	5,300	95	2,400	55	1,400	249	6,300	1 / 5	—
	220	5,600	99	2,500	59	1,500	260	6,600	1 / 5	—
	232	5,900	103	2,600	62	1,600	272	6,900	0.5 / 2	—
	244	6,200	107	2,700	66	1,700	284	7,200	0.5 / 2	2 / 5
	255	6,500	111	2,800	70	1,800	296	7,500	0.5 / 2	2 / 5
	267	6,800	115	2,900	74	1,900	308	7,800	0.5 / 2	2 / 5
	291	7,400	123	3,100	82	2,100	331	8,400	0.5 / 1	2 / 5
	314	8,000	130	3,300	90	2,300	355	9,000	0.5 / 1	2 / 5
	331	8,420	136	3,440	96	2,440	371	9,420	0.5 / 1	2 / 5
	343	8,720	140	3,540	100	2,540	383	9,720	0.5 / 1	2 / 5
	358	9,110	145	3,670	105	2,670	399	10,110	0.5 / 1	2 / 5
	378	9,620	152	3,840	111	2,840	419	10,620	—	2 / 5
	391	9,950	156	3,950	116	2,950	432	10,950	—	2 / 5
	402	10,220	162	4,100	122	3,100	442	11,220	—	2 / 5
	414	10,520	166	4,200	125	3,200	454	11,520	—	2 / 5
421	10,700	168	4,260	128	3,260	461	11,700	—	2 / 5	
428	10,880	171	4,320	130	3,320	468	11,880	—	2 / 5	
437	11,120	174	4,400	133	3,400	478	12,120	—	2 / 5	
453	11,510	179	4,530	138	3,530	493	12,510	—	2 / 5	
Only ETV 320 / 325	473	12,020	186	4,700	145	3,700	513	13,020	—	2 / 5
	493	12,530	192	4,870	152	3,870	533	13,530	—	2 / 5
	505	12,830	196	4,970	156	3,970	545	13,830	—	2 / 5
	511	13,000	198	5,026	158	4,026	552	14,000	—	2 / 5

\*Includes standard load backrest with height 39.5 inches.