

Jungheinrich® proprietary 3-phase AC technology in drive, lift and steering motors

Solid pneumatic tires and high ground clearance for indoor and outdoor use

Side-facing seat provides excellent visibility when transporting high loads

Smooth and sensitive operation with soloPILOT hydraulic control

Jungheinrich curveCONTROL for advanced stability during cornering

All weather cabins for frequent outdoor applications (optional)



ETV C16 / ETV C20

Electric Moving Mast Reach Truck (3,500 / 4,400 lbs.)

The ETV C16 / C20 series of reach trucks is suitable for both indoor and outdoor use, including operation on smooth concrete warehouse floors or for loading/unloading on bumpy asphalt surfaces. Whether handling pallets, operating in single- or multi-shift applications or frequently working outside, these reach trucks provide the ideal solution.

The key advantages:

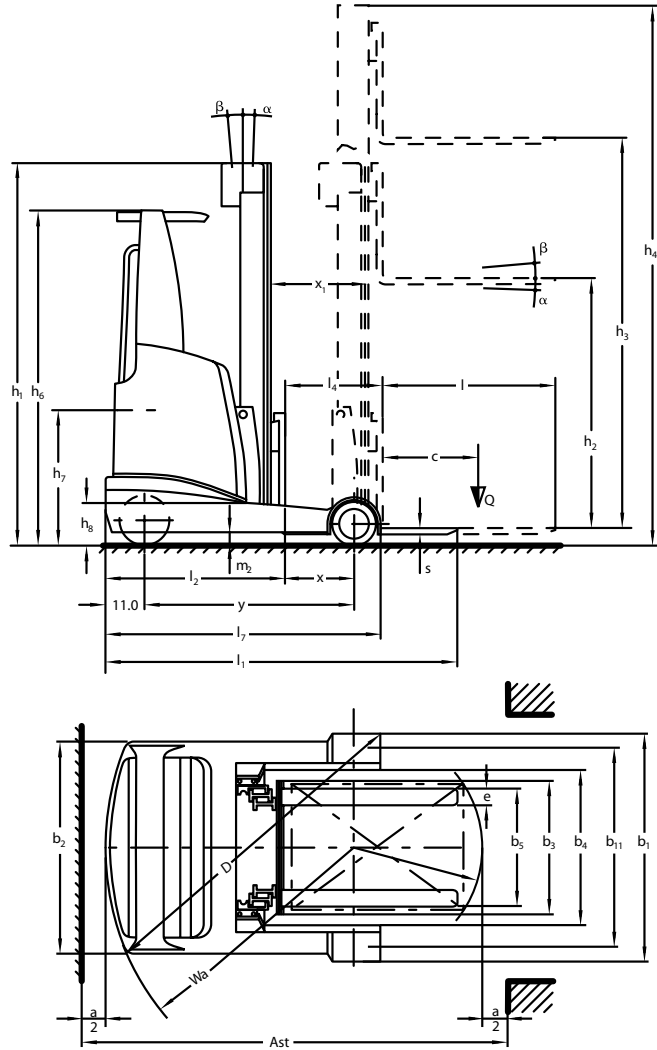
- Flexible for indoor and outdoor operation on different surfaces. Suitable for applications with smooth, concrete floors in the warehouse or for loading and unloading outside on rough surfaces.
- Compact chassis design allows the truck to work in a narrow working aisle (widths from 111 inches).
- Higher productivity and fewer maintenance requirements due to Jungheinrich's proprietary 3-phase AC technology.

- A highly-adjustable and extremely comfortable operator compartment helps provide a premium experience for the operator. Additional seat options also available.

The ETV C16 / ETV C20 can be used at high levels for efficient stacking and retrieval of pallets that need to be transferred in narrow aisles. Whether handling pallets, working in drive-in racking or operating outside— these reach trucks provide the ideal solution for virtually every application.

**JUNGHEINRICH®**

ETV C16 / ETV C20



Mast Table ETV C16/C20

	ETV C16		ETV C20		ETV C16		ETV C20		ETV C16		ETV C20		Mast tilt forward / back α°/β°		
	Lift height		Lowered mast height				Free lift				Extended mast height				
	h_3		h_1				h_2^*				h_4^*				
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	$^\circ$		
Three-stage mast DZ (Full free-lift)	167	4,250	—	—	81	2,050	—	—	41	1,050	—	—	207	5,250	2 / 4
	179	4,550	81	2,050	—	—	41	1,050	—	—	219	5,550	—	—	2 / 4
	185	4,700	—	—	87	2,200	—	—	47	1,200	—	—	225	5,700	2 / 4
	196	5,000	87	2,200	91	2,300	47	1,200	51	1,300	237	6,000	237	6,000	2 / 4
	206	5,240	90	2,280	—	—	50	1,280	—	—	246	6,240	—	—	2 / 4
	208	5,300	91	2,300	95	2,400	51	1,300	55	1,400	249	6,300	249	6,300	2 / 4
	213	5,420	—	—	97	2,440	—	—	56	1,440	—	—	253	6,420	2 / 4
	214	5,450	93	2,350	—	—	53	1,350	—	—	254	6,450	—	—	2 / 4
	220	5,600	95	2,400	99	2,500	55	1,400	59	1,500	260	6,600	260	6,600	2 / 4
	225	5,720	97	2,440	—	—	56	1,440	—	—	265	6,720	—	—	2 / 4
	228	5,810	98	2,470	—	—	57	1,470	—	—	269	6,810	—	—	2 / 4
	232	5,900	99	2,500	103	2,600	59	1,500	62	1,600	272	6,900	272	6,900	2 / 4
	238	6,050	—	—	105	2,650	—	—	64	1,650	—	—	278	7,050	2 / 4
	244	6,200	103	2,600	107	2,700	62	1,600	66	1,700	284	7,200	284	7,200	2 / 4
	255	6,500	107	2,700	111	2,800	66	1,700	70	1,800	296	7,500	296	7,500	2 / 4
	267	6,800	111	2,800	115	2,900	70	1,800	74	1,900	308	7,800	308	7,800	2 / 4
	273	6,950	—	—	117	2,950	—	—	76	1,950	—	—	313	7,950	2 / 4
279	7,100	115	2,900	—	—	74	1,900	—	—	319	8,100	—	—	2 / 4	
291	7,400	—	—	123	3,100	—	—	82	2,100	—	—	331	8,400	2 / 4	

*Includes standard load backrest with height 39.4 inches.

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.

Technical data

as of: 3/2022

Characteristics				Jungheinrich		Jungheinrich			
				ETV C16		ETV C20			
1.1	Manufacturer			Jungheinrich		Jungheinrich			
1.2	Model			ETV C16		ETV C20			
1.3	Drive			electric		electric			
1.4	Type of operation			transverse seat		transverse seat			
1.5	Load capacity / rated load	Q	lbs / kg	3,500	1,600	4,400	2,000		
1.6	Load center distance	c	in / mm	24	600	24	600		
1.8	Load distance, center of drive axle to fork	x	in / mm	15.7 ¹⁾	400 ²⁾	16.6 ¹⁾	421 ²⁾		
	Mast pushed forward	x ₁	in / mm	11.4	290	11.4	290		
1.9	Wheelbase	y	in / mm	57.5	1,460	59.8	1,520		
Weights	2.1	Service weight without battery		lbs		5,959	2,703		
	2.1.1	Service weight including battery (see line 6.5)		lbs		8,025	3,640		
	2.3	Axle loading – unloaded, drive / load		lbs		4,916 / 3,108	2,230 / 1,410		
	2.4	Axle loading – fork advanced, loaded drive / load		lbs		1,477 / 10,075	670 / 4,570		
	2.5	Axle loading – fork retracted, loaded drive / load		lbs		4,332 / 7,220	1,965 / 3,275		
Wheels, Chassis	3.1	Tires		SE		SE			
	3.2	Tire size, drive		200 / 50-10		200 / 50-10			
	3.3	Tire size, load		180 / 60-10		180 / 60-10			
	3.5	Wheels – number, drive / load (x = driven wheels)		1x / 2		1x / 2			
	3.7	Track width, load side	b ₁₁	in / mm	47.6	1,210	48.8	1,240	
Dimensions	4.1	Mast – fork carriage tilt, forward / backward		degrees		see mast table below			
	4.2	Collapsed mast height		h ₁ in / mm		see mast table below			
	4.3	Free-lift		h ₂ in / mm		see mast table below			
	4.4	Maximum fork height (MFH)		h ₃ in / mm		see mast table below			
	4.5	Overall extended height (OAE)		h ₄ in / mm		see mast table below			
	4.7	Overhead load guard (cab) height		h ₆ in / mm		90.2	2,290		
	4.8	Seat height / standing height		h ₇ in / mm		45.9	1,166		
	4.10	Height of outriggers		h ₈ in / mm		18.3	464		
	4.19	Overall length		l ₁ in / mm		97.8 ²⁾	2,484 ²⁾		
	4.20	Length to fork face, headlength		l ₂ in / mm		51.9 ¹⁾	1,320 ²⁾		
	4.21	Overall width	b ₁ / b ₂	in / mm	54.4 / 50.0	1,382 / 1,270	55.5 / 50.0	1,409 / 1,270	
	4.22	Fork dimensions, length / width / thickness		l / e / s in / mm		43.5 / 4.8 / 1.6	1,150 / 120 / 40	45.3 / 4.8 / 2.0	1,150 / 120 / 50
	4.23	Fork carriage, class / type A,B				2 / B			
	4.24	Fork carriage width		b ₃ in / mm		32.7	830		
	4.25	Overall fork width		b ₅ in / mm		13.2 / 28.7	335 / 730	14.0 / 29.5	356 / 750
	4.26	Distance between outriggers		b ₄ in / mm		37.0	940	37.0	940
	4.28	Reach distance		l ₄ in / mm		27.2 ¹⁾	690 ²⁾	28.0 ¹⁾	711 ²⁾
4.32	Ground clearance, center of wheelbase		m ₂ in / mm		3.1	80	3.1	80	
4.32.1	Ground clearance, at lowest point		in / mm		2.2	55	2.2	55	
4.33	Aisle width (for 40 x 48 pallets L x W)		Ast in / mm		110.3 ¹⁾ 3)	2,802 ²⁾ 3)	112.1 ¹⁾ 3)	2,847 ²⁾ 3)	
4.34	Aisle width (for 48 x 48 pallets L x W)		Ast in / mm		114.1 ¹⁾ 3)	2,899 ²⁾ 3)	115.8 ¹⁾ 3)	2,941 ²⁾ 3)	
4.35	Turning radius		Wa in / mm		68.3	1,735	70.7	1,795	
4.37	Length to tip of outrigger		l ₇ in / mm		78.2	1,986	80.6	2,046	
Performance	5.1	Travel speed, loaded / unloaded		mph / km/h		7.3 / 7.6	11.8 / 12.2	7.3 / 7.6	11.8 / 12.2
	5.2	Lift speed, loaded / unloaded		ft / min / m / s		78.7 / 137.8	0.40 / 0.70	63.0 / 118.1	0.32 / 0.60
	5.3	Lowering speed, loaded / unloaded		ft / min / m / s		98.4	0.5	98.4	0.5
	5.4	Reach speed, loaded / unloaded		ft / min / m / s		39.4	0.20	39.4	0.20
	5.7	Gradeability, loaded / unloaded		%		7 / 10		6 / 10	
	5.8	Maximum gradeability, loaded / unloaded		%		10 / 15		10 / 15	
	5.9	Acceleration time, loaded / unloaded		sec		5.2 / 4.8		5.4 / 4.6	
5.10	Service brake				electric		electric		
Motors	6.1	Drive motor (rating S ₂ 60 minute)		HP / kW		10.1	7.5	10.1	7.5
	6.2	Lift motor rating at S ₃ 15%		HP / kW		17.8	13.3	17.8	13.3
	6.4	Battery voltage / nominal capacity		V / Ah		48 / 560		48 / 560	
	6.5	Battery weight, minimum / maximum		lbs / kg		1,967 / 2,326 ¹⁾	892 / 1,055 ¹⁾	1,967 / 2,326 ¹⁾	892 / 1,055 ¹⁾
		Battery dimensions, l / w / h		in / mm		13.97 / 48.15 / 30.87 ¹⁾	355 / 1,223 / 784 ¹⁾	13.97 / 48.15 / 30.87 ¹⁾	355 / 1,223 / 784 ¹⁾
Other	8.1	Type of drive control				AC technology		AC technology	
	8.2	Operating pressure for attachments		psi / bar		2,175	150	2,175	150
	8.3	Flowrate for attachments		gal / min / l / min		5.3	20	5.3	20
	8.4	Sound level at driver's ear		dB (A)		70		70	

1) Different battery compartment sizes change these values

2) Different fork lengths change these values

3) For floor storage with 8 inches (200mm) total maneuvering clearance included

The Jungheinrich Advantage

Powerful mast

Jungheinrich masts provide maximum space utilization at high lift heights.

- Excellent visibility to the load.
- Integrated sideshift.
- Low collapsed heights combined with high lift heights.
- Smooth mast tilt.
- High residual capacities at maximum fork height.
- Lift heights up to 24.3 feet.
- Integrated hose routing for auxiliary hydraulics (no hose reel).

Ergonomic operator compartment

The operator compartment provides ideal working conditions for high performance and ease of operation.

- Horizontally- and vertically-adjustable steering wheel.
- Full-suspension comfort seat with adjustment features such as seating position, backrest and body weight.
- Side-facing seat offers enhanced visibility when transporting heavy loads.
- Numerous storage options.
- Generous space available in compartment.
- Automatic centering of sideshift at the push of a button (optional).



Informative display

Easy control with soloPILOT

- Multiple control handles are used to activate all hydraulic functions, including lifting / lowering, travel direction, sideshift and the horn.
- All operating controls are visible and have a designated function. Mast reach and mast tilt are controlled by two separate levers.
- soloPILOT also controls auxiliary equipment, such as the fork positioner (optional).
- Precise operation through application of all functions.
- Comfortable posture with padded armrest.

Easy-to-read operator display

- Travel direction and wheel position display.
- Battery discharge indicator.
- Three adjustable travel programs to suit every application.
- Operating hours and clock.
- Lift height and load weight (optional).
- The color display is 4" with 480x272 pixels. A 6" display is also available as an option.

Jungheinrich's proprietary 3-phase AC technology

Powerful 3-phase AC technology in drive, lift and steering motors offers several advantages over traditional DC motors.

- Powerful acceleration.
- Quick plugging without hesitation.
- Greater operational availability due to maintenance-free motors without carbon brushes, brush springs or commutators.
- Longer operating times due to energy reclamation during braking.

Additional options

- Lift height pre-selection with SNAP function.
- Floor spot light.
- Panoramic overhead guard roof.
- Load weight indicator.

Lithium-ion Package Advantages

- Fast charging with no need for battery exchanges
- Maintenance-free with no odors from gases or acidification
- Longer service life and lower maintenance compared with lead-acid batteries
- Charging can be interrupted at anytime
- 5-year battery warranty included

Parts when you need them

Jungheinrich's Parts Fast or Parts Free Guarantee ensures next-business-day delivery by 5:00 p.m. 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.