

Travel in any direction thanks to electronically controlled all-wheel steering

Generously designed operator workplace

Jungheinrich curveCONTROL for optimum stability

Hydraulic fork positioning for various load widths (optional)

Reversing camera (optional)



## ETV Q20/Q25

### Electric multi-directional reach truck (2,000/2,500 kg)

Jungheinrich multi-directional reach trucks are used wherever long loads are transported in narrow aisles and need to be elevated at height. With their electric all-wheel steering they can transport loads up to 8 m long, maximising space in the warehouse.

There are five steering modes available, ranging from modified normal travel and turning on the spot through to transverse and parallel travel. In 'enhanced normal travel', the already small turning radius is reduced further by simultaneous load wheel steering. The advantages of 360° steering are also available: Minimum turning radius and rapid direction change. This makes the ETV Q clearly superior to any conventional 4-way reach truck.

Uncomplicated, intuitive handling with ergonomically arranged displays and controls as well as outstanding visibility makes operating the truck simplicity itself. In addition, assistance systems increase productivity:

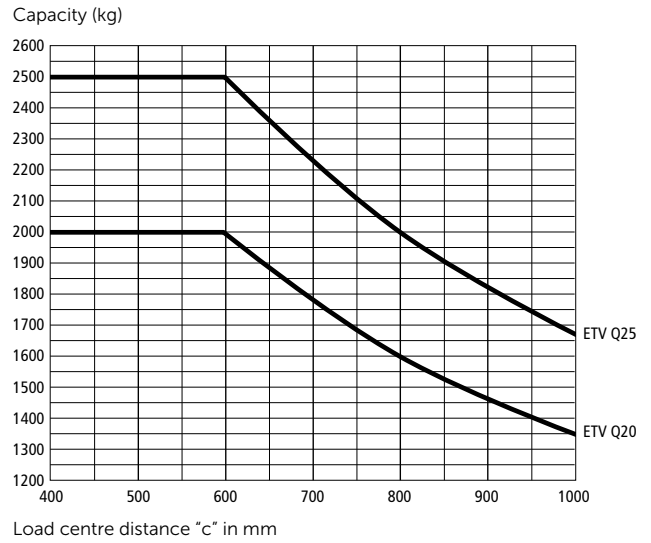
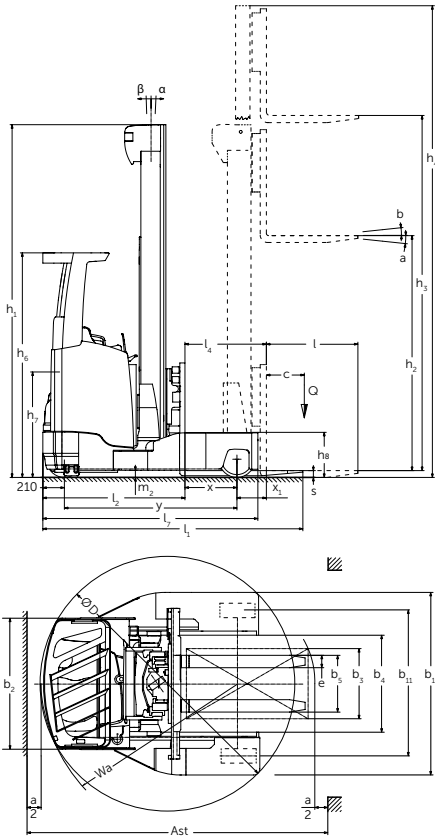
- Jungheinrich curveCONTROL reduces the maximum travel speed when cornering, depending on the steer angle.
- Weighing systems allow weights to be checked at the press of a button.
- Mast reach cushioning reduces mast sway during stacking and retrieval operations, thereby increasing throughput.

The outstanding performance is complemented by the excellent cost-effectiveness:

- Greater travel and lift performance for more pallet throughput.
- Long operating times thanks to the reduction in energy consumption with the same throughput.
- Less aisle width required as a result of the proven reach principle.

A number of options and battery versions ranging from 620 Ah to 930 Ah ensure that the trucks can be adapted to any application.

# ETV Q20/Q25



Standard mast designs ETV Q20/Q25						
	Lift $h_3$	Lowered mast height $h_1$	Free lift $h_2$	Extended mast height $h_4$	Mast tilt forward / back $\alpha/\beta$	Tilt forks forward / back $\alpha/\beta$
	(mm)	(mm)	(mm)	(mm)	(°)	(°)
DZ-V	4250	2050	1320	4996	1/5	-
	4700	2200	1470	5446	1/5	-
	5000	2300	1570	5746	1/5	-
	5300	2400	1670	6046	1/5	-
	5420	2440	1710	6166	1/3	-
	5600	2500	1770	6346	1/3	-
	5900	2600	1870	6646	1/3	-
	6050	2650	1920	6796	1/3	-
	6200	2700	1970	6946	1/3	2/5
	6500	2800	2070	7246	1/3	2/5
	6800	2900	2170	7546	1/3	2/5
	6950	2950	2220	7696	1/3	2/5
	7400	3100	2370	8146	1/3	2/5
	7700	3200	2470	8446	-	2/5
	8000	3300	2570	8746	1/3	2/5
	8420	3440	2710	9166	1/3	2/5
	8720	3540	2810	9466	1/3	2/5
	9110	3670	2940	9856	1/3	2/5
	9620	3840	3110	10366	-	2/5
	9950	3950	3220	10696	-	2/5
10220	4100	3370	10966	-	2/5	
10520	4200	3470	11266	-	2/5	
10700	4260	3530	11446	-	2/5	

# Technical data in line with VDI 2198

				Jungheinrich		
				ETV Q20	ETV Q25	
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	2	2.5
	1.6	Load centre distance	c	mm	600	
	1.8	Load distance	x	mm	449 <sup>1)</sup>	
	1.8.1	Load distance, mast reached forward	x <sub>1</sub>	mm	230	
	1.9	Wheelbase	y	mm	1,528	1,638
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg		
	2.3	Axle load without load front/rear		kg		
	2.4	Axle loading forks forward with load at front / rear		kg		
	2.5	Axle loading forks retracted with load at front / rear		kg		
Wheels / frame	3.1	Tyres		Vulkollan®		
	3.2	Tyre size, front		mm		
	3.3	Tyre size, rear		mm		
	3.5	Wheels, number front/rear (x = driven wheels)		1x / 2		
	3.7	Tread width, rear		b <sub>11</sub>	mm	1,420
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward		α/β	°	
	4.2	Mast height (lowered)		h <sub>1</sub>	mm	
	4.3	Free lift		h <sub>2</sub>	mm	
	4.4	Lift		h <sub>3</sub>	mm	
	4.5	Extended mast height		h <sub>4</sub>	mm	
	4.7	Height of overhead guard		h <sub>6</sub>	mm	
	4.8	Seat height/stand height		h <sub>7</sub>	mm	
	4.10	height of support arms		h <sub>8</sub>	mm	
	4.19	Overall length		l <sub>1</sub>	mm	
	4.20	Length to face of forks		l <sub>2</sub>	mm	
	4.21	Overall width		b <sub>1</sub> /b <sub>2</sub>	mm	
	4.22	Fork dimensions		s/e/l	mm	
	4.23	Fork carriage ISO 2328, class/type A, B		2B		
	4.24	Fork carriage width		b <sub>3</sub>	mm	
	4.25	Width across forks		b <sub>5</sub>	mm	
	4.26	Width between support arms/loading surfaces		b <sub>4</sub>	mm	
	4.28	Mast reach		l <sub>4</sub>	mm	
4.32	Ground clearance, centre of wheelbase		m <sub>2</sub>	mm		
4.32.1	Ground clearance at lowest point		mm			
4.33	Aisle width for pallets 1000 × 1200 sideways		Ast	mm		
4.34	Aisle width for pallets 800 × 1200 lengthways		Ast	mm		
4.35	Turning radius		W <sub>a</sub>	mm		
4.37	Length over the support arms		l <sub>7</sub>	mm		
Performance data	5.1	Travel speed, laden/unladen		km/h		
	5.2	Lift speed, laden/unladen		m/s		
	5.3	Lowering speed, laden/unladen		m/s		
	5.4	Traverse speed w. / w.o. load		m/s		
	5.7	Gradeability laden/unladen		%		
	5.8	Max. gradeability, laden/unladen		%		
	5.9	Acceleration time w. / w.o. load		S		
	5.10	Service brake				
	5.1	Travel speed, laden/unladen		14 / 14		
	5.2	Lift speed, laden/unladen		0.38 / 0.64	0.35 / 0.64	
5.3	Lowering speed, laden/unladen		0.55 / 0.55			
5.4	Traverse speed w. / w.o. load		0.2 / 0.2			
5.7	Gradeability laden/unladen		7 / 11			
5.8	Max. gradeability, laden/unladen		10 / 15			
5.9	Acceleration time w. / w.o. load		5.4 / 4.8	5.6 / 5.1		
5.10	Service brake		electric			
Electrics	6.1	Drive motor, output S2 60 min.		kW		
	6.2	Lift motor, output at S3 15%		kW		
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no		DIN 43531 - C		
	6.4	Battery voltage/nominal capacity K5		V/Ah		
	6.5	Battery weight		kg		
	6.6	Energy consumption according to VDI cycle		kWh/h		
	6.7	Throughput		t/h		
	6.8	Energy consumption at max. throughput		kWh/h		
6.1	Drive motor, output S2 60 min.		8.5			
6.2	Lift motor, output at S3 15%		15.5			
6.3	Battery as per DIN 43531 /35/36 A, B, C, no		DIN 43531 - C			
6.4	Battery voltage/nominal capacity K5		48 / 620			
6.5	Battery weight		1,005			
6.6	Energy consumption according to VDI cycle		5.1	6		
6.7	Throughput		78.6	95.3		
6.8	Energy consumption at max. throughput		4.12	4.4		
Misc.	8.1	Type of drive control		Mosfet / AC		
	8.2	Working pressure for attachments		bar		
	8.3	Oil flow for attachments		l/min		
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)		
8.1	Type of drive control		Mosfet / AC			
8.2	Working pressure for attachments		150			
8.3	Oil flow for attachments		20			
8.4	Sound pressure level at operator's ear as per EN 12053		70			

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

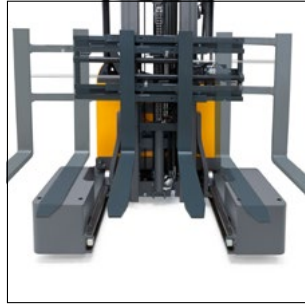
<sup>2)</sup> mast-dependent

In accordance with VDI Guideline 2198 this specification sheet provides details of the standard truck only. Non-standard tyres, different masts, optional equipment, etc. may result in different values.

# Benefit from the advantages



Reversing camera (optional)



Fork positioner (optional)



Ergonomic workstation



5 different steering modules

## Safety

- Electric brakes on all 3 wheels ensure that the ETV Q stays in the lane when braking during sideways movement.
- The reversing camera (optional) provides a better view during sideways travel in reverse.
- The panorama roof (optional) offers a clear view of the raised load.

## High-performance mast

Jungheinrich masts guarantee maximum safety and space utilisation to high lift heights:

- Lift heights up to 10,700 mm.
- Lowest clearances at high lift heights.
- Extremely long life through cold-rolled mast sections.
- High residual capacities even at high lift heights.
- Patented mast reach cushioning (optional) for reduced mast sway during stacking and retrieval.

## Fork positioner with extended fork shank (optional)

Optimum adaptation to different load widths for the safe transportation of long loads:

- Easy adjustment at the press of a button.
- Straddle width up to 2060 mm.
- Integrated design with short chassis length for narrow aisle widths.

- Three versions with different chassis widths available.

## Ergonomic workstation

The operator position provides the ideal working conditions for maximum performance and reduced strain on the operator:

- Five buttons for simple and fast selection of the steering modes.
- Comfort seat, fully adjustable for all operators (seat position, backrest, bodyweight).
- Plenty of storage options.
- Generous space.
- 3-phase steering of all 3 wheels can be changed from 180° to 360°.
- Standard automotive layout of pedals.

## Assistance systems and options

For more power and full load stability.

- operationCONTROL continuously measures the load weight and compares it with the residual capacity of the truck. When approaching the limit value, an optical warning is triggered on the operator display in conjunction with an acoustic warning.
- positionCONTROL with SNAP function enables simple and fast stacking without additional pressing of buttons.
- liftNAVIGATION transfers stacking orders automatically from the warehouse management system, preventing stacking errors.

- Fork camera with ergonomically adjustable monitor enables safe and efficient stacking and retrieval.

## soloPILOT control lever

The control lever is used to activate all hydraulic functions and also to select the direction of travel and sound the horn:

- All the controls are within the operator's field of vision and are clearly designated for each specific function.
- Maximum handling capacity through the simultaneous use of 2 hydraulic functions (e.g. lifting and reaching).
- Convenient control of additional attachments, e.g. a fork positioner (optional).
- Precision operation by sensitive activation of all functions.
- Comfortable posture with padded armrest.
- multiPILOT (optional).

## Easy-to-read colour display

- Display of direction of travel and wheel position.
- Battery status with residual time display.
- 3 adjustable travel programs for individual adjustment to any requirements.
- Operating hours and time of day.
- Lift height (optional).
- Load weight (optional).



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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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