Drive, lift and steering motors use 3-phase AC technology

Improved manoeuvrability through compact chassis design

Electric 180^0 steering

Smooth hydraulic operation through soloPILOT control lever

High operating safety with curveCONTROL

Integrated sideshift fitted as standard

ETV 114n/116n/118n/120n

Electric reach truck (1,400/1,600/1,800/2,000 kg)

Space-saving design, excellent performance and comfortable working area-these are the strengths of the Jungheinrich Reach Trucks ETVn 1 series. The advantages:

- Space-saving through narrow working aisle widths from 2659 mm (according to VDI-when picking up a pallet length-ways).
- Higher throughput as well as increased availability due to 3-phase AC technology drive, lift and steering motors.
- Motivated and stress-free operators due to efficiency-enhancing ergonomics. The operator is immediately aware of the added comfort: Using the lowered step, he comfortably gets into the operator compartment equipped with 3-fold adjustable seat, adjustable armrest as well as a steering wheel adjustable in horizontal and vertical directions.
- Automatic speed reduction in corners. curveCONTROL limits maximum travel speed and acceleration in corners. The danger of tipping over is drastically reduced.

Thus the Jungheinrich Reach Trucks ETVn 1 series provide the best solution for cost effective stacking and retrieval at high lift heights and in confined spaces. Be it during the handling of pallets(operating in drive-in racking), in narrow or low areas, or single shift or multishift applications the Reach Trucks ETVn 1 series are suited to every application in four different capacity ranges.

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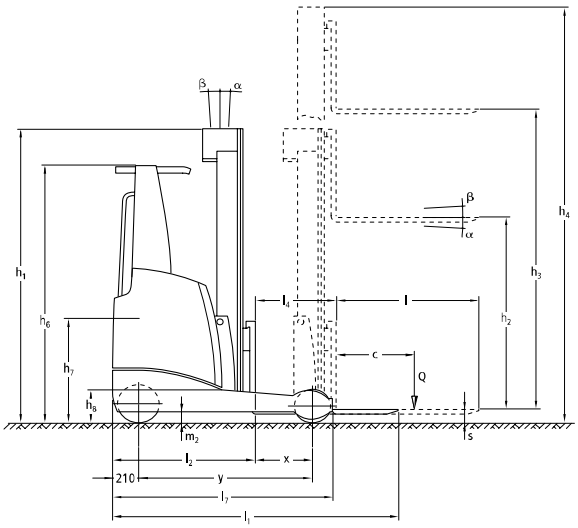
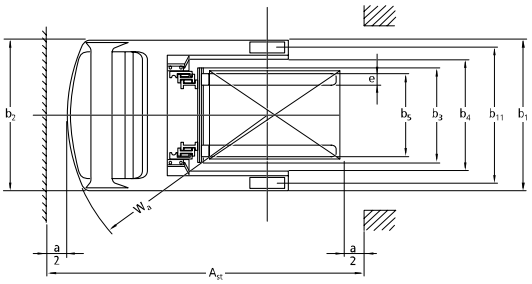
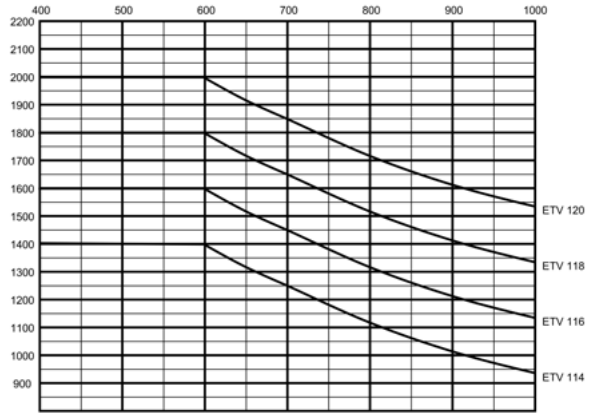
Machines. Ideas. Solutions.

ETV 114n/116n/118n/120n





Capacity (kg)



Load centre distance "c" in mm

Standard mast designs ETV 114n/116n/118n/120n									
	Lift h_3 (mm)	Lowered mast height h_1 (mm)		Free lift h_2 (mm)		Extended mast height[1] h_4 (mm)		Mast tilt forward / back α/β (°)	
		ETV 114n / 116n	ETV 118n / 120n	ETV 114n / 116n	ETV 118n / 120n	ETV 114n / 116n	ETV 118n / 120n	ETV 114n / 116n	ETV 118n / 120n
-	5000	2200	-	1700	-	6000	-	2/5	-
	5300	2300	-	1800	-	6300	-	2/5	-
	5900	2500	-	2000	-	6900	-	2/5	-
	6200	2600	-	2100	-	7200	-	2/5	-
	6500	2700	-	2200	-	7500	-	2/5	-
	6800	2800	-	2300	-	7800	-	2/5	-
	7100	2900	-	2400	-	8100	-	2/5	-
	7700	3100	-	2600	-	8700	-	2/5	-
	8420	3340	-	2840	-	9420	-	2/5	-
	9020	3540	-	3040	-	10020	-	2/5	-
Triplex DZ	5000	2200	2300	1700	1700	6000	6000	1/5	1/5
	5300	2300	2400	1800	1800	6300	6300	1/5	1/5
	5900	2500	2600	2000	2000	6900	6900	1/3	1/3
	6200	2600	2700	2100	2100	7200	7200	1/3	1/3
	6500	2700	2800	2200	2200	7500	7500	0.5/2	0.5/2
	6800	2800	2900	2300	2300	7800	7800	0.5/2	0.5/2
	7100	2900	3000	2400	2400	8100	8100	0.5/2	0.5/2
	7700	3100	3200	2600	2600	8700	8700	0.5/1	0.5/1
	8420	3340	3440	2840	2840	9420	9420	0.5/1	0.5/1
	9020	3540	3640	3040	3040	10020	10020	0.5/1	0.5/1

[1] Additional load guard height of 410mm

Technical data in line with VDI 2198

Identification	1.1	Manufacturer (abbreviation)			Jungheinrich			
	1.2	Model			**ETV 114n**	**ETV 116n**	**ETV 118n**	**ETV 120n**
					GE			
	1.3	Drive			Electric			
	1.4	Manual, pedestrian, stand-on, seated, order picker operation			seat			
	1.5	Load capacity/rated load	Q	t	1.4	1.6	1.8	2
	1.6	Load centre distance	c	mm	600			
	1.8	Load distance	x	mm	355[5]	385[5]	455[5]	455[5]
	1.8.1	Load distance, mast reached forward	x_1	mm	205	205	200	200
	1.9	Wheelbase	y	mm	1,410	1,460	1,560	1,560
Weights	2.1.1	Net weight incl. battery (see row 6.5)		kg	2,950	3,070	3,500	3,570
	2.3	Axle load without load front/rear		kg	1,770 / 1,180	1,842 / 1,228	1,932 / 1,568	1,984 / 1,586
	2.4	Axle loading forks forward with load at front / rear		kg	522 / 3,828	560 / 4,110	1,009 / 4,291	958 / 4,612
	2.5	Axle loading forks retracted with load at front / rear		kg	1,566 / 2,784	1,681 / 2,989	1,765 / 3,535	1,798 / 3,772
Wheels / frame	3.1	Tyres			PU			
	3.2	Tyre size, front		mm	Ø 343 x 114			
	3.3	Tyre size, rear		mm	Ø 285 x 100			
	3.5	Wheels, number front/rear (x = driven wheels)			1x / 2			
	3.7	Tread width, rear	b_{11}	mm	1,136			
Basic dimensions	4.1	Tilt of mast/fork carriage forward/backward	α/β	°	1/5[1]			
	4.2	Mast height (lowered)	h_1	mm	2,300	2,300	2,400	2,400
	4.3	Free lift	h_2	mm	1,800			
	4.4	Lift	h_3	mm	5,300			
	4.5	Extended mast height	h_4	mm	6,300	6,300	6,400	6,400
	4.7	Height of overhead guard	h_6	mm	2,265			
	4.8	Seat height/stand height	h_7	mm	950			
	4.10	height of support arms	h_8	mm	285[6]			
	4.19	Overall length	l_1	mm	2,346[5]	2,418[5]	2,518[5]	2,518[5]
	4.20	Length to face of forks	l_2	mm	1,196[5]	1,268[5]	1,268[5]	1,268[5]
	4.21	Overall width	b_1/b_2	mm	1,270 / 1,270			
	4.22	Fork dimensions	s/e/l	mm	40 / 120 / 1,150	40 / 120 / 1,150	40 / 120 / 1,150	50 / 120 / 1,150
	4.23	Fork carriage ISO 2328, class/type A, B			2B			
	4.24	Fork carriage width	b_3	mm	800			
	4.25	Width across forks	b_5	mm	335 / 709			
	4.26	Width between support arms/loading surfaces	b_4	mm	932			
	4.28	Mast reach	l_4	mm	622[5]	600[5]	700[5]	700[5]
	4.32	Ground clearance, centre of wheelbase	m_2	mm	80			
	4.33	Aisle width for pallets 1000 x 1200 sideways	Ast	mm	2,650 / 2,396[2]	2,715 / 2,468[2]	2,815 / 2,568[2]	2,815 / 2,568[2]
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast	mm	2,692 / 2,596[2]	2,762 / 2,668[2]	2,862 / 2,768[2]	2,862 / 2,768[2]
	4.35	Turning radius	W_a	mm	1,613	1,663	1,763	1,763
	4.37	Length over the support arms	l_7	mm	1,792	1,842	1,942	1,942
Performance data	5.1	Travel speed, laden/unladen		km/h	10 / 10[3]	10 / 10[3]	10 / 10[4]	10 / 10[4]
	5.2	Lift speed, laden/unladen		m/s	0.37 / 0.65	0.33 / 0.6	0.33 / 0.6	0.33 / 0.6
	5.3	Lowering speed, laden/unladen		m/s	0.5 / 0.35[1]	0.48 / 0.35[1]	0.45 / 0.38[1]	0.44 / 0.38[1]
	5.4	Traverse speed w. / w.o. load		m/s	0.2 / 0.2[1]			
	5.7	Gradeability laden/unladen		%	7 / 10			
	5.8	Max. gradeability, laden/unladen		%	10 / 15			
	5.9	Acceleration time w. / w.o. load		S	5.1 / 4.8	5.2 / 4.8	5.3 / 4.8	5.4 / 4.8
	5.10	Service brake			electric			
Electrics	6.1	Drive motor, output S2 60 min.		kW	6.9			
	6.2	Lift motor, output at S3 15%		kW	10.0			
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no			C			
	6.4	Battery voltage/nominal capacity K5		V/Ah	48 / 420	48 / 420	48 / 620	48 / 620
	6.5	Battery weight		kg	746	746	995	995
	6.6	Energy consumption according to VDI cycle		kWh/h	3.8	4.1	4.4	4.7
Misc.	8.1	Type of drive control			Mosfet / AC			
	8.2	Working pressure for attachments		bar	150			
	8.3	Oil flow for attachments		l/min	20			
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	68			

1) Dependent on mast
2) for floor storage
3) in load direction 10 km/h
4) In load direction 9km/h
5) These values change with different battery sizes
6) With load wheel cover +30mm

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


Ergonomic cab


soloPILOT


High performance mast

High performance mast
Jungheinrich masts guarantee maximum safety and storage utilisation to high lift heights. Their strengths:
- Excellent visibility towards the load.
- Integrated sideshift.
- Lowest closed mast height with high lift heights.
- Extremely long service life due to high quality mast profiles.
- High residual capacities up to high lift heights.
- Lift heights up to 9020 mm with mast tilt.

Ergonomic cab
The operator cab provides ideal working conditions for excellent performance and support for the operator.
Its strength:
- Comfortable seat with adjustment options (sitting position/backrest/body weight) for every operator.
- Plenty of storage options.
- The important truck controls are within easy reach.
- Generous space.
- 3-phase AC steering (180° or as an option 360°) with stress-free steering wheel position.
- Horizontal/vertical steering wheel adjustment.

Effortless operation with soloPILOT
Incorporating the control levers for all hydraulic functions as well as travel direction selection and horn.
- All operating functions are in view.
- Additional attachments, such as fork spreaders(optional), are also easily controlled with the soloPILOT.
- Precise operation through sensitive control of all functions.
- Comfortable working position with adjustable armrest.
- multiPILOT as option available.

Easily-to-read operator display
High quality display of important operating information.
- Travel direction and wheel position indicator.
- 180°/360° steering mode.
- Battery discharge display with residual running time.
- Three adjustable travel programs to suit every requirement.
- Operating hours and time.

More efficient with 3-phase AC technology
Powerful 3-phase AC technology for drive, lift and steering motors provides a number of advantages compared with traditional direct current motors.
- Powerful acceleration.
- Fast reversing without delay.
- High availability through maintenance-free motors without carbon brushes.
- Longer operating times due to energy reclamation on reducing the travel speed.

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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. CE

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