

Intuitive operation via  
jetPILOT multifunctional  
steering wheel

Wide range of accessories

Ergonomic order picking  
with lifting load section

Optimised working  
processes through direct  
operator/load interaction



## ECD 320

### Low level order pickers (2,000 kg)

Through a combination of the latest technology and numerous ergonomic advantages, our ECD 320 optimises both time and cost when order picking.

Its excellent technical performance is determined by a 24 V drive motor with 3-phase AC technology. Its advantages: Powerful acceleration and high top speed with simultaneously reduced energy consumption as well as a prolonged operating time and low maintenance (no carbon brushes).

This is due to the optimised efficiency and coordination between the drive motor and drive control as well as regenerative braking.

There are also ergonomic advantages for the operator/machine/load interface: The immediate proximity of the operator to the load and the stand-on platform is key to safe and efficient order picking. The ECD 320 can raise loads weighing up to 1000 kg up to a height of 700 mm. In addition, a pre-

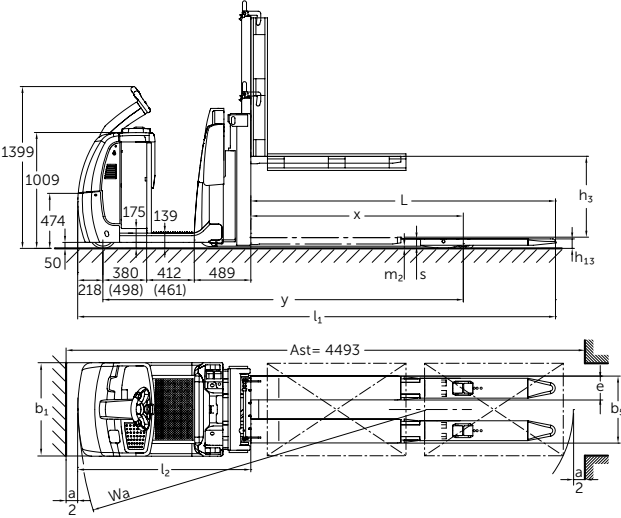
viously picked pallet can be transported on the initial lift while a further pallet is still being picked. This reduces the number of journeys required to remove the pallets.

The ECD offers a choice of two different electric steering systems: Tiller steering or the jetPILOT multifunctional steering wheel.

The advantages of tiller steering: Effortless steering with only 60° tiller angle required for a 90° steering angle. The operator and tiller always remain safely within the truck contours.

The advantages of the jetPILOT steering wheel: Intuitive controls plus safe and secure grip, similar to a car, provides first-class operator comfort. No twisting of the body when cornering (thus lessening the strain on the neck and spinal column). One-handed operation and automatic return of the steering wheel to straight line travel.

# ECD 320



# Technical data in line with VDI 2198

				Jungheinrich			
				ECD 320	ECD 320 XL		
<b>Identification</b>	1.1	Manufacturer (abbreviation)					
	1.2	Model					
	1.3	Drive		Electric			
	1.4	Manual, pedestrian, stand-on, seated, order picker operation		Order pickers			
	1.5	Load capacity/rated load	Q	t	2		
	1.5.1	Load capacity/mast lift	Q	t	1		
	1.6	Load centre distance	c	mm	1,200		
	1.8	Load distance	x	mm	1,695 <sup>1)</sup>		
	1.9	Wheelbase	y	mm	3,020 <sup>1)</sup>	3,187 <sup>1)</sup>	
<b>Weights</b>	2.1.1	Net weight incl. battery (see row 6.5)		kg	1,801	2,073	
	2.2	Axle load with load front/rear		kg	1,270 / 2,161	1,425 / 2,198	
	2.3	Axle load without load front/rear		kg	1,051 / 380	1,170 / 460	
<b>Wheels / frame</b>	3.1	Tyres		Vu			
	3.2	Tyre size, front		Ø 230 x 77			
	3.3	Tyre size, rear		Ø 85 x 85			
	3.4	Additional wheels (dimensions)		Ø 180 x 65			
	3.5	Wheels, number front/rear (x = driven wheels)		1+ 1x/4	1 + 1x/4		
	3.6	Tread width, front	b <sub>10</sub>	mm	485		
	3.7	Tread width, rear	b <sub>11</sub>	mm	368		
<b>Basic dimensions</b>	4.4	Lift		h <sub>3</sub> mm		700	
	4.6	Initial lift		h <sub>5</sub> mm		125	
	4.9	Height of tiller in drive position min. / max.		h <sub>14</sub> mm		1,399 / 1,399	
	4.15	Height, lowered		h <sub>13</sub> mm		95	
	4.19	Overall length		l <sub>1</sub>	mm	4,030 <sup>1)</sup>	4,203 <sup>1)</sup>
	4.20	Length to face of forks		l <sub>2</sub>	mm	1,499	1,666
	4.21	Overall width		b <sub>1</sub> /b <sub>2</sub>	mm	810 / 810	
	4.22	Fork dimensions		s/e/l	mm	65 / 207 / 2,540 <sup>1)</sup>	
	4.25	Width across forks		b <sub>5</sub>	mm	580	
	4.32	Ground clearance, centre of wheelbase		m <sub>2</sub>	mm	30	
4.33.4	Aisle width for pallets 800 x 1200 sideways		Ast	mm	4,295	4,475	
4.35	Turning radius		W <sub>a</sub>	mm	3,125 <sup>1)</sup>	3,305 <sup>1)</sup>	
<b>Performance data</b>	5.1	Travel speed, laden/unladen		km/h	9.5 / 12.5	9.3 / 12.3	
	5.2	Lift speed, laden/unladen		m/s	0.06 / 0.07		
	5.3	Lowering speed, laden/unladen		m/s	0.06 / 0.05		
	5.8	Max. gradeability, laden/unladen		%	6 / 15		
	5.10	Service brake		regenerative			
<b>Electrics</b>	6.1	Drive motor, output S2 60 min.		kW	2.8		
	6.2	Lift motor rating at S3 10%		kW	1.5		
	6.3	Battery as per DIN 43531 /35/36 A, B, C, no		no			
	6.4	Battery voltage/nominal capacity K5		V/Ah	24 / 465	24 / 620	
	6.5	Battery weight		kg	370	450	
<b>Misc.</b>	8.1	Type of drive control		AC SpeedControl			
	8.4	Sound pressure level at operator's ear as per EN 12053		dB (A)	67		

<sup>1)</sup> with pallet holder: + 145 mm

<sup>2)</sup> with pallet holder: + 185 mm

<sup>3)</sup> with pallet holder: + 195 mm

# Benefit from the advantages



Ergonomic depositing of the goods



Pallet holder for direct handling of the second pallet (optional)



Entry support and fork marking

## Innovative 3-phase AC technology

Better performance coupled with reduced operating costs. Make the most of these advantages:

- High efficiency levels with excellent energy management.
- Rapid acceleration for high productivity.
- Rapid direction change.
- No carbon brushes - maintenance-free drive motor.
- Two-year warranty on the drive motor.

## Travelling in comfort

The SpeedControl electronic control system facilitates comfortable, safe travel with adjustable options for every application:

- The speed set by the drive switch is maintained under all travel conditions – even on gradients / descents.
- A choice of three travel programs for individual adaptation to any needs.
- Regenerative braking with energy recovery when slowing down.

## Ergonomic and efficient work

With the ECD 320, the mast lift can be raised to 700 mm in order to facilitate

the depositing of goods at an ergonomic height. A fully picked pallet is then placed on the longer initial lift forks to guarantee a lower centre of gravity. The picking process can now continue at the front. The load guard (optional) and the pallet holder enable both pallets to be picked up prior to the start of the picking process. To do this, one pallet is placed upright on the load guard and fixed securely with the pallet holder. Once picking of the first pallet is complete, the order picking process can be continued directly with the second pallet.

## Rugged construction for the hardest applications

- Chassis manufactured from high 8 mm quality steel.
- Extra-high wrap around chassis apron on front cover.
- Tension proof fork sections with strong pull rods – no bending even with heavy loads and long forks.

## Individual steering

Different steering concepts to facilitate a tailor-made application:

- Electric tiller steering with productive steering ratio.
- Electric steering wheel with jetPILOT.
- Curve Control (optional): Maximum safety with automatic travel speed reduction when cornering.

## Long operating times

- Energy-efficient 3-phase AC technology and high battery capacities allow for long operating times:
- Standard version: Battery 3 PzS 465 Ah.
- Optional: Battery 3 PzS 375 Ah.
- High-performance XL version: Battery 4 PzS 465 / 620 Ah.
- Lateral battery exchange (optional) for multi-shift use.

## Additional accessories

An extensive range of accessories allow individual adjustment to your application:

- Edging buttons located in the backrest on both sides of the truck .
- Extra collision protection from steel or rubber.
- Holder for radio data transmission equipment.

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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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