

**Excellent energy efficiency through maintenance-free 3-phase AC drive motor**

**Robust power package for hardest applications**

**Effortless handling through JetPilot (optional)**

**Automatic speed reduction during curve travel (Curve Control, optional)**

**Various accessories for individual requirements**

**Order picking from 2<sup>nd</sup> racking level through raising stand-on platform (optional)**



## ECE 220

### Horizontal order picker (2000 kg)

The Jungheinrich ECE 220 facilitates time and cost savings during order picking by way of combining excellent technical efficiency with a multitude of ergonomic advantages.

Its excellent technical efficiency is determined by a 24 V drive motor in 3-phase AC technology. Its advantages: powerful acceleration and high end speed; at the same time significant energy saving, prolonged application time and minimised maintenance effort (no carbon brushes). This is made possible through an optimised efficiency factor, favourable adjustment between drive motor

and drive control as well as regenerative braking.

Added to this are the ergonomic advantages: The immediate proximity of the operator to the load is the "pivotal point" for safe and efficient order picking. The optionally available raising stand-on platform makes order picking easy – even from the second racking level.

Dependent on the application requirement, the ECE can be equipped with three different steering choices. Apart from tiller steering,

electric tiller steering or steering wheel "JetPilot" are available as options. Advantages of electric tiller steering: effortless steering with approx. 60° tiller lock only for 90° steering lock. Operator and tiller always remain safely within the truck contours. Advantages of the JetPilot steering wheel: first-class travel comfort through intelligent operation and a secure hold. No turning of the body during cornering (thus relieving neck and spine pressure). One-handed operation and automatic return of steering wheel to straight travel.



# Technical Data in line with VDI 2198 as at: 09/2005

Identification	1.1	Manufacturer (abbreviation)	Jungheinrich	Jungheinrich	Jungheinrich	1.1	
	1.2	Manufacturer's type designation	<b>ECE 220</b>	<b>ECE 220 XL</b>	<b>ECE 220 HP</b>	1.2	
	1.3	Drive	electric (battery)	electric (battery)	electric (battery)	1.3	
	1.4	Type of operator	order picker	order picker	order picker	1.4	
	1.5	Load capacity/rated load	Q (t)	2.0	2.0	2.0	1.5
	1.6	Load centre distance	c (mm)	1200	1200	1200	1.6
	1.8	Load distance, centre of drive axle to fork	x (mm)	1600	1600	1600	1.8
	1.9	Wheelbase	y (mm)	2649 <sup>1)</sup>	2816 <sup>1)</sup>	2804 <sup>1)</sup>	1.9
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	1160	1295	1328
2.2		Axle loading, laden front/rear	kg	1120/2040	1230/2065	1376/1952	2.2
2.3		Axle loading, unladen front/rear	kg	880/280	976/319	1020/308	2.3
Wheels, Chassis	3.1	Tyres	Vulkollan®	Vulkollan®	Vulkollan®	3.1	
	3.2	Tyre size, front	230 x 78	230 x 78	230 x 78	3.2	
	3.3	Tyre size, rear	85 x 85	85 x 85	85 x 85	3.3	
	3.4	Additional wheels (dimensions)	180 x 65	180 x 65	180 x 65	3.4	
	3.5	Wheels, number front/rear (x = driven wheels)	1 + 1 x/4	1 + 1 x/4	1 + 1 x/4	3.5	
	3.6	Track width, front	b <sub>10</sub> (mm)	500	500	500	3.6
	3.7	Track width, rear	b <sub>11</sub> (mm)	340/370/500	340/370/500	340/370/500	3.7
Basic Dimensions	4.4	Lift height	h <sub>3</sub> (mm)	125	125	125	4.4
	4.9	Height of tiller in drive position min./max.	h <sub>14</sub> (mm)	1342	1387	1342	4.9
	4.15	Lowered height	h <sub>13</sub> (mm)	90	90	90	4.15
	4.19	Overall length	l <sub>1</sub> (mm)	3667	3834	3822	4.19
	4.20	Length to face of forks	l <sub>2</sub> (mm)	1267	1434	1422	4.20
	4.21	Overall width	b <sub>1</sub> /b <sub>2</sub> (mm)	810/-	810/-	810/-	4.21
	4.22	Fork dimensions	s/e/l (mm)	60/170/2400	60/170/2400	60/170/2400	4.22
	4.25	Width over forks	b <sub>5</sub> (mm)	510/540/670	510/540/670	510/540/670	4.25
	4.32	Ground clearance, centre of wheelbase	m <sub>2</sub> (mm)	30	30	30	4.32
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	3867 <sup>2)</sup>	4034 <sup>2)</sup>	4022 <sup>2)</sup>	4.34
	4.35	Turning radius	Wa (mm)	2867	3034	3022	4.35
Performance Data	5.1	Travel speed, laden/unladen	km/h	8.5/10.5 <sup>3)</sup>	8.5/10.5 <sup>3)</sup>	8.5/10.5 <sup>3)</sup>	5.1
	5.2	Lift speed, laden/unladen	m/s	0.05/0.06	0.05/0.06	0.05/0.06	5.2
	5.3	Lowering speed, laden/unladen	m/s	0.06/0.04	0.06/0.04	0.06/0.04	5.3
	5.8	Max. gradient performance, laden/unladen	%	6/15	6/15	6/15	5.8
	5.10	Service brake		electromagnetic	electromagnetic	electromagnetic	5.10
Electric Engine	6.1	Drive motor rating S <sub>2</sub> 60 min.	kW	2.5	2.5	2.5	6.1
	6.2	Lift motor rating at S <sub>3</sub> 15 %	kW	1.5	1.5	1.5	6.2
	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		no	no	no	6.3
	6.4	Battery voltage, nominal capacity K <sub>5</sub>	V/Ah	24/420 (450)	24/560 (620)	24/420 (450)	6.4
	6.5	Battery weight	kg	370	450	370	6.5
	6.6	Energy consumption acc. to VDI cycle	kWh/h	0.76	0.76	0.76	6.6
Others	8.1	Type of drive control		3-phase AC technology	3-phase AC technology	3-phase AC technology	8.1
	8.4	Sound level at driver's ear according to DIN 12 053	dB(A)	66	66	66	8.4

- 1) load section raised: -89 mm  
 2) diagonal acc. to VDI: +94 mm; applies to 2 pallets = 2400 mm  
 3) Rapid: 9.5/12.5 km/h

# Make use of the advantages



Comfortable travel and fast order picking

## Innovative 3-phase AC technology

Jungheinrich motors in 3-phase AC technology provide you with more productive capacity and reduce your operating costs at the same time. Make use of these advantages:

- High performance efficiency with excellent energy utilisation.
- Powerful acceleration.
- Fast change of travel direction without the usual "second to think".
- No carbon brushes – the drive motor is maintenance-free.
- 2-year warranty on drive motor.

## Comfortable travel

Advanced drive technology and control electronics (SpeedControl) ensure safe travel characteristics with adjustment opportunities for every application:

- The prescribed speed on the travel switch is maintained in every travel situation – even on ascending and descending gradients.
- 3 variable travel programs for individual adjustment to any application needs.
- Regenerative braking with energy reclamation when reducing the travel speed.

## Robust construction for the most intensive applications

- Chassis made of high-quality steel.
- Extra high pulled up chassis apron on front cover.

- Torsion-proof support arms with drawbar pull kinematics – no deflection on thresholds even with heavy loads and long forks.

## Comfortable and safe order picking

The hydraulically raised stand-on platform (optional) provides the best preconditions for depositing on and picking from the second racking level:

- Fast and safe lifting of the operator up to battery cover height.



Order picking from second racking level with raised stand-on platform

- Effortless operation of platform via foot pedal. Hands remain free for order picking.
- High order picking efficiency through immediate proximity of operator to load.

## Long operating times

Energy-saving 3-phase AC technology and large battery capacities facilitate long operating times:

- Standard version: 3 PzS 420 (450) Ah.
- XL version: 4 PzS 560 (620) Ah.

## Well informed at any time

Extensive display and setting instruments provide a complete overview at any time:

- "CanDis" (optional) informs on battery charge state, operating hours and fault codes.



JetPilot – exclusive to Jungheinrich

- Truck activation via PIN and choice of 3 travel programs via keyboard (optional).
- Adjustable travel parameters via CanDis and CanCode (optional).

## Individual steering

3 different steering concepts facilitate tailor-made application:

- Manual tiller steering (standard).
- Electric tiller steering with steering reduction ratio (optional).
- Electric steering with Jungheinrich-JetPilot (optional).

An automatic speed reduction during curve travel is optionally available for the electric steering variants (Jungheinrich Curve Control). Maximum safety is thus ensured.

## Additional equipment

Extensive accessories provide individual adjustment to your application needs:

- Rapid drive system for even higher performance efficiency.
- Pedestrian operation from both sides in the backrest.
- Different designs of backrests (also with seat).
- Additional impact protection made of steel and/or rubber.
- Various accessories for order picking from second racking level.
- Holder for radio data transmission equipment.

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