

HGV double-deck loading,
goods transport or fork lift use

Efficient drive concept

Variable truck configuration

Flexible and agile

Different platform variants

LI-ION
technology



ERD 120/220

Electric pedestrian controlled truck (2,000 kg)

The ERD electric pedestrian controlled truck is especially for HGV double-deck loading and unloading. As a very versatile and powerful truck, it is also suitable for order picking, cost-effective transport of loads over longer distances or for storage/retrieval up to a lifting height of 2900 mm.

A modular system consisting of stand-on platforms, battery compartments, drives and different masts is adaptable to a customer-specific application. This allows the ERD to be individually adapted and optimised to meet your requirements.

Numerous additional options and the robust design of the trucks make work easier, increase the safety of the operator and truck and reduce vibrations experienced by the operator. In addition to the innovative platform suspension, the complete drive unit is spring loaded with shockPROTECT as standard.

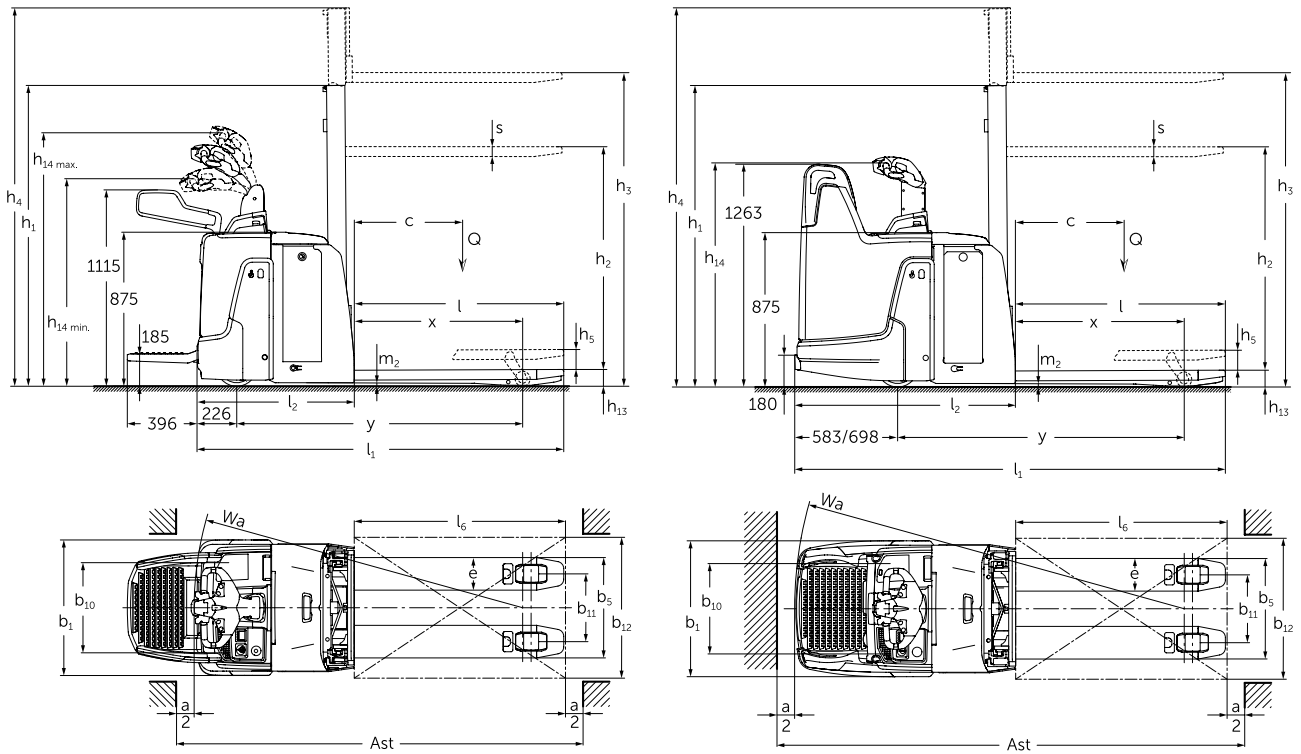
Particularly when driving on a ramp, this reduces the shock and impact acting on the truck, the load and especially on the operator.

The standard electric steering ensures fatigue-free driving, even with heavy loads. The curveCONTROL assistance system ensures automatic speed reduction for safety when cornering. The drivePLUS option with a travel speed of up to 14 km/h also enables fast and energy-efficient goods throughput.

High-performance Li-ion batteries with fast and boost charging capability or standard batteries with up to 465 Ah are available for particularly demanding applications. Combined with modern 3-phase AC technology, this means longer operating times with simultaneously low power consumption, especially for use in multi-shift operation.

JUNGHEINRICH

ERD 120/220



Standard mast designs ERD 120/220/220 drivePLUS				
	Lift h_3 (mm)	Lowered mast height h_1 (mm)	Free lift h_2 (mm)	Extended mast height ¹⁾ h_4 (mm)
Single E	1500	1921	1468	1953
	1660	2081	1628	2113
	2100	2521	2068	2553
Duplex ZT	1660	1306	100	2115
	2010	1481	100	2465
	2100	1526	100	2555
	2560	1756	100	3015
Duplex ZZ	2900	1926	100	3355
	2500	1706	1250	2956
	2900	1906	1450	3356
Triplex DT	2050	1213	100	2513
	2350	1313	100	2813
	2500	1363	100	2963
	2905	1498	100	3368

¹⁾ including basic lift + 122 mm

Technical data in line with VDI 2198

		Jungheinrich			
		ERD 120 ¹⁾	ERD 220 ¹⁾	ERD 220 drivePLUS ¹⁾	
Identification	1.1	Manufacturer (abbreviation)			
	1.2	Model			
	1.3	Drive	Electric		
	1.4	Manual, pedestrian, stand-on, seated, order picker operation	stand-on/pedestrian		
	1.5	Load capacity/rated load	Q t	2	
	1.5.1	Load capacity/load with mast lift	Q t	1	
	1.5.2	Load capacity/load with support arm lift	Q t	2 ³⁾	
	1.6	Load centre distance	c mm	600	
	1.8	Load distance	x mm	956 ^{6)/7)}	
1.9	Wheelbase	y mm	1,624 ^{4)/6)/7)}		
Weights	2.1.1	Net weight incl. battery (see row 6.5)	kg	1,010	
	2.2	Axle loading, laden front/rear	kg	1,830 / 1,185	
	2.3	Axle loading, unladen front/rear	kg	260 / 750	
Wheels / frame	3.1	Tyres	Vulkollan		
	3.2	Tyre size, front	mm	ø 230 x 65	ø 230 x 77
	3.3	Tyre size, rear	mm	ø 85 x 95 / ø 85 x 75	
	3.4	Additional wheels (dimensions)	mm	ø 140 x 50	
	3.5	Wheels, number front/rear (x = driven wheels)		1x + 2 / 2 oder 4	
	3.6	Tread width, front	b ₁₀ mm	512	
	3.7	Tread width, rear	b ₁₁ mm	385	
Basic dimensions	4.2	Mast height (lowered)	h ₁ mm	1,306	
	4.3	Free lift	h ₂ mm	100	
	4.4	Lift	h ₃ mm	1,660	
	4.5	Extended mast height	h ₄ mm	2,115	
	4.6	Initial lift	h ₅ mm	122	
	4.9	Height of tiller in drive position min. / max.	h ₁₄ mm	1,230 / 1,410 ¹⁰⁾	
	4.15	Height, lowered	h ₁₃ mm	90	
	4.19	Overall length	l ₁ mm	2,084 ^{4)/5)/6)}	
	4.20	Length to face of forks	l ₂ mm	894 ^{4)/5)/9)}	
	4.21	Overall width	b ₁ /b ₂ mm	770	
	4.22	Fork dimensions	s/e/l mm	56 / 185 / 1,190	
	4.25	Width across forks	b ₅ mm	570	
	4.32	Ground clearance, centre of wheelbase	m ₂ mm	19	
4.33	Aisle width for pallets 1000 x 1200 crossways	Ast mm	2,300 / 2,668 ^{4)/5)/6)/9)}		
4.34	Aisle width for pallets 800 x 1200 lengthways	Ast mm	2,310 / 2,535 ^{4)/5)/6)/9)}		
4.35	Turning radius	W _a mm	1,866 ^{4)/5)/6)/9)}		
Performance data	5.1	Travel speed, laden/unladen	km/h	8.2 / 9	9.5 / 12.5
	5.2	Lift speed, laden/unladen	m/s	0.17 / 0.32	
	5.3	Lowering speed, laden/unladen	m/s	0.45 / 0.35 ¹¹⁾	
	5.7	Gradeability, laden/unladen	%	8 / 16	8 / 16
	5.10	Service brake		regenerative	
	5.11	Parking brake		electromagnetic	
Electrics	6.1	Drive motor, output S2 60 min.	kW	2.0	2.8
	6.2	Lift motor, output at S3 10%	kW	2.2 ⁸⁾	
	6.3	Battery as per DIN 43531/35/36 A, B, C, no		43535 B	
	6.4	Battery voltage/nominal capacity K5	V/Ah	24 / 250 ²⁾	
	6.5	Battery weight	kg	235	
	6.6	Energy consumption as per EN 16796	kWh/h	0.68	0.62
		CO- Equivalent as per EN 16796	kg/h	0.4	0.3
	6.7	Throughput	t/h	84	108
6.8	Energy consumption at max. throughput	kWh/h	0.83	1.44	
Misc.	8.1	Type of drive control		AC speedCONTROL	
	8.4	Sound pressure level at operator's ear as per EN 12053	dB (A)	71	68

¹⁾ All data based on: Stand-on platform; Folding (folded up); battery compartment: M-SBE; mast: ZT1660; fork length: 1190 mm; initial lift: raised

²⁾ Batteries available up to a capacity of 465 Ah.

³⁾ In double-deck operation: Mast lift max. 11 / overall load max. 2 t

⁴⁾ Value for battery compartment M-SBE, M-VBE, L-SBE & L high-SBE: +72 mm; L-VBE: +117 mm

⁵⁾ Value for folding platform folded up. Folding platform folded down: +396 mm; compact, fixed platform: +357 mm; extended, fixed platform: +472 mm; L platform: +477 mm

⁶⁾ Value for fork length 1190 mm. Fork length 1150 mm: -40 mm

⁷⁾ Value for initial lift raised. Lowered initial lift: +48 mm

⁸⁾ Value for proportional hydraulics. With black/white hydraulics (standard): 1.9 kW

⁹⁾ Value for ZT mast. Single stage mast: +1 mm; DT mast: +10 mm; ZZ mast: +29 mm

¹⁰⁾ Values for folding stand-on platform. With fixed stand-on platform: 1256 mm (1296 mm with battery compartment L high-SBE) or 1204 / 1284 mm with height-adjustable tiller

¹¹⁾ Values for proportional hydraulics. With black/white hydraulics (standard): 0.26 / 0.27 m/s

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

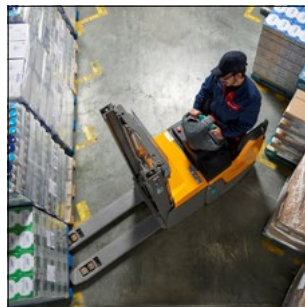
Benefit from the advantages



Double-decker operation for fast goods transport and double-decker loading



Easy adjustment of the platform suspension to the individual body weight



Shortest solid platform for more side protection and maximum manoeuvrability



Everything has its place: More effective work due to a structured workstation

Variable truck equipment

- 4 platform versions (foldable, compact, extended and order-picking platform).
- 3 drive versions for powerful acceleration and travel speeds up to 14 km/h.
- 3 battery compartment sizes for batteries from 200 Ah to 465 Ah.
- 14 masts up to 2900 mm lift height.
- 2 fork lengths (1150 and 1190 mm).

Ergonomics

- Jungheinrich shockPROTECT: Platform sprung drive to protect operator, truck and load against impact.
- Fatigue-free steering thanks to electric steering via ergonomically designed smartPILOT (with optional height adjustment).
- Sprung and cushioned support wheels – firmly linked via the ProTracLink torsion bar – for safe handling in under all driving conditions.
- Quick and easy adjustment of the platform suspension to the individual operator weight, thanks to adjustable, sprung stand-on platform (optional).

- 2-inch display provides information about battery charge status, number of operating hours, residual time display, error codes and travel speed incl. selection of 3 travel programs by softkey (optional).
- Various practical storage trays.

Safety

- Optimised and safe cornering speed thanks to load-dependent curveCONTROL (with ERD 220 and 220 drivePLUS).
- Regulated hydraulics (optional) for smooth depositing of the load and precise pallet positioning in the racking.
- Optional integrated dayLED daytime running lights for better visibility in poorly lit areas.
- Active foot protection: Speed reduction when feet are outside the truck (optional).
- Activation of the truck by EasyAccess via softkey, PIN code or transponder card (optional).

Efficiency

- Powerful motor for excellent acceleration values and high driving speed.

- Long operating times due to energy-saving 3-phase AC technology and high battery capacities of 200-465 Ah.
- Lateral battery exchange for multi-shift operation (optional).
- Pallet stop on the frame for quick and precise positioning of 2 pallets one above the other.

Additional equipment

- Load guard in 2 heights.
- Option mount on the battery lid.
- Robust, universally applicable option bracket.
- Spotlight for HGV illumination.
- Shrink wrap holder.
- A4 writing pad.
- Magnetic storage compartment.
- Climbing aids for pallet traverse entry.

Lithium-ion technology

- High degree of availability thanks to extremely short charging times.
- No battery exchange required.
- Cost savings due to longer service life and low maintenance compared with lead-acid batteries.
- No charging rooms and ventilation required as there is no build up of gas.
- Longer service life with 5-year Jungheinrich guarantee.

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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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