

High throughput for double deck lorry loading

Compact design with excellent manoeuvrability

Performance-enhancing ergonomics

Impulse electronic "SpeedControl" eliminating roll-back on gradients

Comfortable operation whilst travelling long distances



ESD 120/220

Electric stand-on and sit-on stacker (2000 kg)

Jungheinrich stackers, models ESD 120/220 are very flexible trucks. As double deck stackers, they pick up two pallets one on top of each other, the first via the fork carriage and the other lifted by the support arm lift: ideal for loading and unloading lorries with two loading levels. The ESD 120/220 can also be utilised as a conventional stacker in the warehouse.

The ESD 120 as stand-on truck with a width of only 760 mm is narrower than a Euro pallet. This allows easy pallet posi-

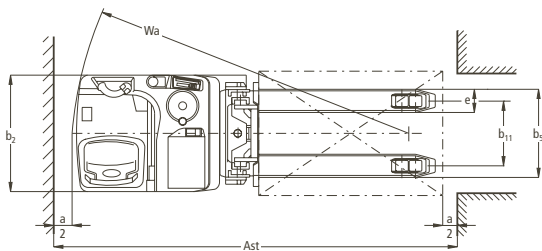
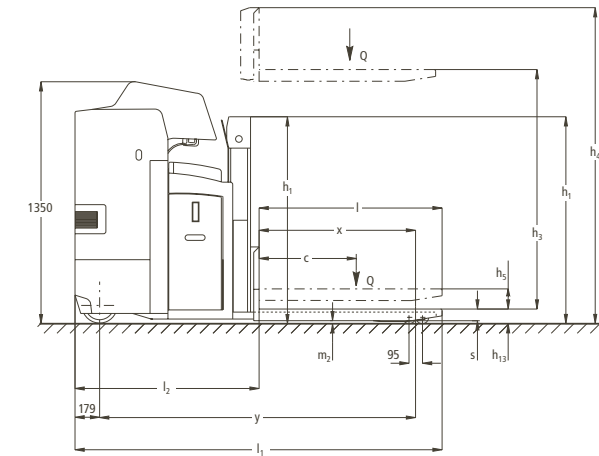
tioning inside a lorry as well as fast lorry loading and unloading. The foldable seat gives additional comfort during travel over longer distances. It is also a comfortable backrest when folded up. The low entry height makes ease of regular mounting and dismounting.

The ESD 220 with a truck width of 830 mm, is a sit-on version of the above giving the operator maximum comfort. It is therefore particularly suited to transporting goods over long distances.

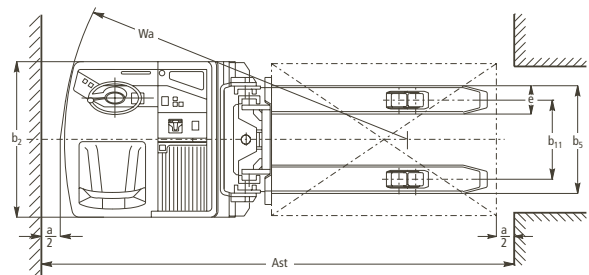
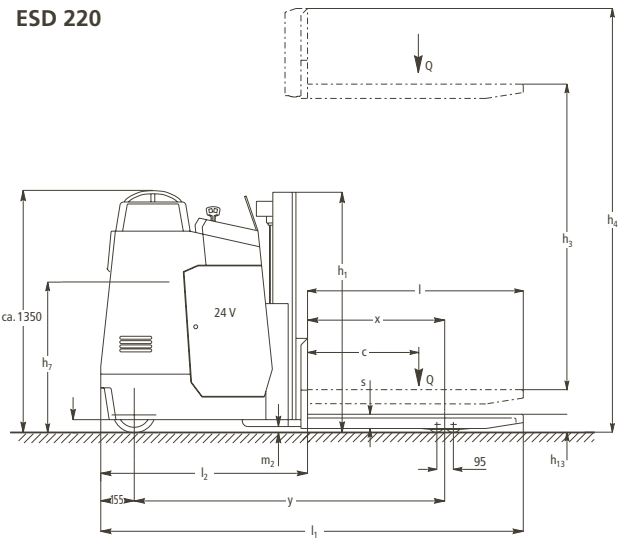
All trucks are fitted with powerful 24 V drive motors for high acceleration and top speeds. Further advantages are underlined by their robust construction: chassis and load sections are designed for capacities up to 2000 kg. Due to their excellent ergonomics, this high performance can be utilised effortlessly and in absolute safety.

ESD 120/220

ESD 120



ESD 220



Technical data in line with VDI 2198 as at: 06/2007

Identification	1.1	Manufacturer (abbreviation)		Jungheinrich	Jungheinrich	Jungheinrich	1.1
	1.2	Manufacturer's type designation		ESD 120 (K)	ESD 120 (L)	ESD 220	1.2
	1.3	Drive		electric	electric	electric	1.3
	1.4	Operator type		stand-on/sit-on	stand-on/sit-on	stand-on/sit-on	1.4
	1.5	Load capacity/rated load	Q (t)	2 ⁵⁾	2 ⁵⁾	2 ⁵⁾	1.5
	1.6	Load centre distance	c (mm)	600	600	600	1.6
	1.8	Load distance, centre of drive axle to fork	x (mm)	930 ¹⁾	930 ¹⁾	655 ²⁾	1.8
	1.9	Wheelbase	y (mm)	1835 ¹⁾	1905 ¹⁾	1540 ²⁾	1.9
	Weights	2.1	Service weight incl. battery (see line 6.5)	kg	1208	1258	1380
2.2		Axle loading, laden front/rear	kg	1283/1925	1246/2012	1352/2028	2.2
2.3		Axle loading, unladen front/rear	kg	845/363	884/374	930/450	2.3
Wheels, Chassis	3.1	Tyres		polyurethane	polyurethane	polyurethane	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 75	85 x 75	85 x 65	3.3
	3.4	Additional wheels (dimensions)		140 x 54	140 x 54	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	Tread, front	b ₁₀ (mm)	475	475	540	3.6
	3.7	Tread, rear	b ₁₁ (mm)	380	380	380	3.7
Basic Dimensions	4.2	Closed mast height	h ₁ (mm)	1250	1250	1250	4.2
	4.4	Lift (standard mast)	h ₃ (mm)	1660	1660	1660	4.4
	4.5	Height, mast extended	h ₄ (mm)	2250	2250	2250	4.5
	4.6	Initial lift	h ₅ (mm)	105	105	120	4.6
	4.8	Seat height/stand height	h ₇ (mm)	245	245	1000	4.8
	4.15	Height, lowered	h ₁₃ (mm)	90	90	90	4.15
	4.19	Overall length	l ₁ (mm)	2260	2330	2190	4.19
	4.20	Length to face of forks	l ₂ (mm)	1070	1140	1010	4.20
	4.21	Overall width	b ₁ /b ² (mm)	760/-	760/-	830/-	4.21
	4.22	Fork dimensions	s/e/l (mm)	65 x 190 x 1190	65 x 190 x 1190	65 x 190 x 1190	4.22
	4.25	Distance between fork-arms	b ₅ (mm)	570	570	570	4.25
	4.32	Ground clearance, centre of wheelbase	m ₂ (mm)	20	20	20	4.32
	4.34	Aisle width for pallets 800 x 1200 lengthways	Ast (mm)	2485 ³⁾	2555 ³⁾	2160 ⁴⁾	4.34
	4.35	Turning radius	Wa (mm)	2015 ¹⁾	2085 ¹⁾	1715 ²⁾	4.35
	Performance Data	5.1	Travel speed, laden/unladen	km/h	7,5/9,2	7,5/9,2	6,4/7,6
5.2		Lift speed, laden/unladen	m/s	0,14/0,22	0,14/0,22	0,19/0,26	5.2
5.3		Lowering speed, laden/unladen	m/s	0,23/0,17	0,23/0,17	0,23/0,17	5.3
5.8		Max. gradeability, laden/unladen	%	6/12	6/12	6/12	5.8
5.10		Service brake		electromechanical	electromechanical	electromechanical	5.10
Electric engine		6.1	Drive motor rating S ₂ 60 min	kW	2	2	2
	6.2	Lift motor rating at S ₃ 10 %	kW	2,2	2,2	3	6.2
	6.3	Battery acc. to DIN 43531/35/36 A, B, C, no		B	B	no	6.3
	6.4	Battery voltage, nominal capacity K ₅	V/Ah	24/375	24/500	24/465	6.4
	6.5	Battery weight	kg	288	370	370	6.5
Others	8.1	Type of drive control		SpeedControl	SpeedControl	SpeedControl	8.1
1) load section lowered: + 55 mm 2) load section lowered: + 70 mm 3) diagonal according to VDI: + 213 mm 4) diagonal according to VDI: + 130 mm 5) capacity in mast lift: max. 1 t							

This specification sheet according to VDI regulation 2198 only provides technical values for the standard truck. Non-standard tyres, different masts, additional equipment, etc. could produce other values. Right reserved for technical changes and improvements.

Make use of the advantages

Powerful drive

All ESD range trucks are fitted with powerful, 2.0 kW shunt-wound motors giving both high acceleration and top speed.

Comfortable operation and controls

Safe speed regulation with Jungheinrich SpeedControl: SpeedControl ensures high safety and simple travel speed control in every situation.

- Roll-back protection on gradients with automatically activated brake.
- Constant travel speed on up and down gradients.
- Energy reclamation with regenerative braking.
- Smooth, jerk free operation.
- Adjustment of acceleration and braking parameters.

Performance-enhancing ergonomics

The arrangement of the operator cab, which is sideways on to the travel direction ensures high visibility and reduces potential neck complaints due to frequent travel direction change. Various storage areas (pencil tray, parts tray, paper compartment) give an orderly layout and a safety switch in the foot well ensures maximum safety.



Ergonomic arrangement of operator space on ESD 120

ESD 120

- Seat folds vertically to act as a backrest during stand-on operation.
- Foot rest for better support when sitting.

ESD 220

- Comfort seat with weight adjustment.

Flexible operation

ESD 120

- Transport of two pallets simultaneously with double deck load section.
- Fast lorry loading and unloading.
- Simple pallet positioning directly on lorry side due to narrow truck width of 760 mm.
- Comfortable mounting and dismounting due to low entry height.

ESD 220

- Ideal for long distance applications due to comfortable seat.
- Easy manoeuvrability due to compact construction.
- Ideal for block stacking.

Reduced maintenance

- Easily removable panelling.
- Sideways battery removal on rollers.

Additional equipment

- Steering wheel on the left hand side (ESD 120).
- Code lock.
- Vertical load guard.
- Battery discharge and steering position display.



ESD 220 with comfortable operator's seat

Jungheinrich UK Ltd.

Head Office:

Sherbourne House · Sherbourne Drive
Tilbrook · Milton Keynes MK7 8HX
Phone 01908 363100
Fax 01908 363180

info@jungheinrich.co.uk
www.jungheinrich.co.uk

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