



## **Electric pedestrian stacker with support arm lift**

**ERD 120 / 220**

Lift height: 1500-2905 mm / Load capacity: 2000 kg



The image contains four technical drawings of a vehicle, arranged in a 2x2 grid. The top row shows side views, and the bottom row shows top views.

**Top Left (Side View):** Shows the vehicle's profile with dimensions  $h_4$ ,  $h_1$ ,  $1263$ ,  $h_{14}$ ,  $875$ ,  $180$ ,  $583/698$ ,  $l_2$ ,  $y$ ,  $l_1$ ,  $h_2$ ,  $h_5$ ,  $h_{13}$ ,  $c$ ,  $Q$ ,  $x$ ,  $l$ ,  $m_2$ , and  $s$ .

**Top Right (Side View):** Similar to the top left, but with additional dimensions  $h_3$ ,  $h_{14} \text{ max.}$ ,  $1115$ ,  $875$ ,  $185$ ,  $396$ ,  $226$ , and  $h_{14} \text{ min.}$ .

**Bottom Left (Top View):** Shows the vehicle from above with dimensions  $Wa$ ,  $l_6$ ,  $b_{10}$ ,  $b_1$ ,  $a/2$ ,  $As$ ,  $e$ ,  $b_5$ ,  $b_{11}$ ,  $b_{12}$ , and  $a/2$ .

**Bottom Right (Top View):** Similar to the bottom left, but with an additional dimension  $b_1$  on the left side.

# ERD 120 / 220

| ERD 120, ERD 220, ERD 220 drivePLUS | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|-------------------------------------|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT                      | 1660 mm   | 1306 mm                    | 100 mm         | 2115 mm                   |
|                                     | 2010 mm   | 1481 mm                    | 100 mm         | 2465 mm                   |
|                                     | 2100 mm   | 1526 mm                    | 100 mm         | 2555 mm                   |
|                                     | 2560 mm   | 1756 mm                    | 100 mm         | 3015 mm                   |
|                                     | 2900 mm   | 1926 mm                    | 100 mm         | 3355 mm                   |
| Duplex mast ZZ                      | 2500 mm   | 1706 mm                    | 1250 mm        | 2956 mm                   |
|                                     | 2900 mm   | 1906 mm                    | 1450 mm        | 3356 mm                   |
| Single mast E                       | 1500 mm   | 1921 mm                    | 1468 mm        | 1953 mm                   |
|                                     | 1660 mm   | 2081 mm                    | 1628 mm        | 2113 mm                   |
|                                     | 2100 mm   | 2521 mm                    | 2068 mm        | 2553 mm                   |
| Triplex mast DT                     | 2050 mm   | 1213 mm                    | 100 mm         | 2513 mm                   |
|                                     | 2350 mm   | 1313 mm                    | 100 mm         | 2813 mm                   |
|                                     | 2500 mm   | 1363 mm                    | 100 mm         | 2963 mm                   |
|                                     | 2905 mm   | 1498 mm                    | 100 mm         | 3368 mm                   |

# VDI table

|                  |        |                                                     |              |                       |            |                   |
|------------------|--------|-----------------------------------------------------|--------------|-----------------------|------------|-------------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)              |              | Jungheinrich          |            |                   |
|                  | 1.2    | Manufacturer's type designation                     |              | ERD 120               | ERD 220    | ERD 220 drivePLUS |
|                  | 1.3    | Drive type                                          |              | electric              |            |                   |
|                  | 1.4    | Operation                                           |              | Stand-on/pedestrian   |            |                   |
|                  | 1.5    | Load capacity/load                                  | Q kg         | 2000                  |            |                   |
|                  | 1.5.1  | Rated capacity/load with mast lift                  | Q kg         | 1000                  |            |                   |
|                  | 1.5.2  | Rated capacity/load with support arm lift           | Q kg         | 2000                  |            |                   |
|                  | 1.6    | Load centre distance                                | c mm         | 600                   |            |                   |
|                  | 1.8    | Load distance, centre of drive axle to fork         | x mm         | 956                   |            |                   |
|                  | 1.9    | Wheelbase                                           | y mm         | 1624                  |            |                   |
| Weights          | 2.1.1  | Service weight (incl. battery)                      | kg           | 1010                  |            |                   |
|                  | 2.2    | Axle load laden front/rear                          | kg           | 1185 / 1830           |            |                   |
|                  | 2.3    | Axle load unladen front/rear                        | kg           | 750 / 260             |            |                   |
| Wheels/chassis   | 3.1    | Tyres                                               |              | Polyurethane (PU)     |            |                   |
|                  | 3.2    | Tyre size, front                                    |              | ø 230 x 65            | ø 230 x 77 |                   |
|                  | 3.3    | Tyre size, rear                                     |              | ø 85 x 95 / ø 85 x 75 |            |                   |
|                  | 3.4    | Additional wheels                                   |              | ø 140 x 50            |            |                   |
|                  | 3.5    | Wheels, number front/back (x=driven)                |              | 1x + 2 / 2 oder 4     |            |                   |
|                  | 3.6    | Tread width, front                                  | b10 mm       | 512                   |            |                   |
|                  | 3.7    | Tread width, rear                                   | b11 mm       | 385                   |            |                   |
| Basic dimensions | 4.2    | Retracted mast height (h1)                          | h1 mm        | 1306                  |            |                   |
|                  | 4.3    | Free lift (h2)                                      | h2 mm        | 100                   |            |                   |
|                  | 4.4    | Lift (h3)                                           | h3 mm        | 1660                  |            |                   |
|                  | 4.5    | Extended mast height (h4)                           | h4 mm        | 2115                  |            |                   |
|                  | 4.6    | Initial lift                                        | h5 mm        | 110                   |            |                   |
|                  | 4.9    | Height of tiller handle in drive position min./max. | h14 mm       | 1230 / 1410           |            |                   |
|                  | 4.15   | Height, lowered                                     | h13 mm       | 90                    |            |                   |
|                  | 4.19   | Total length                                        | l1 mm        | 2084                  |            |                   |
|                  | 4.20   | Length including fork shank                         | l2 mm        | 894                   |            |                   |
|                  | 4.21.1 | total width                                         | b1 mm        | 770                   |            |                   |
|                  | 4.22   | Fork dimensions                                     | s/<br>e/l mm | 56 x 185 x 1190       |            |                   |
|                  | 4.25   | Width across forks                                  | b5 mm        | 570                   |            |                   |
|                  | 4.32   | Ground clearance centre of wheelbase                | m2 mm        | 19                    |            |                   |
|                  | 4.34.1 | Aisle width (pallet 1000x1200 sideways)             | Ast mm       | 2300                  |            |                   |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)                | Ast mm       | 2310                  |            |                   |
|                  | 4.35   | Turning radius                                      | Wa mm        | 1866                  |            |                   |

|                                                                                                                                                                                                   |       |                                           |        |             |            |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------|--------|-------------|------------|----------|
| Performance data                                                                                                                                                                                  | 5.1   | Travel speed laden/unladen                | km/h   | 8.2 / 9     | 9.5 / 12.5 | 9.5 / 14 |
|                                                                                                                                                                                                   | 5.2   | Lift speed laden/unladen                  | m/s    | 0.17 / 0.32 |            |          |
|                                                                                                                                                                                                   | 5.3   | Lowering speed laden/unladen              | m/s    | 0.45 / 0.35 |            |          |
|                                                                                                                                                                                                   | 5.7   | Gradeability laden/unladen                | %      | 8 / 16      |            | 10 / 20  |
|                                                                                                                                                                                                   | 5.10  | Service brake                             |        | generative  |            |          |
| Electric motor/electronics                                                                                                                                                                        | 6.1   | Drive motor, performance S2 60 min        | kW     | 2           | 2.8        | 3.2      |
|                                                                                                                                                                                                   | 6.2   | Lift motor, performance with S3           | kW     | 2.2         |            |          |
|                                                                                                                                                                                                   | 6.3   | Battery according to DIN 43531/35/36      |        | DIN 43535 B |            |          |
|                                                                                                                                                                                                   | 6.4   | Battery voltage/nominal capacity          | V / Ah | 24 / 250    |            |          |
|                                                                                                                                                                                                   | 6.5   | Battery weight                            | kg     | 235         |            |          |
|                                                                                                                                                                                                   | 6.6   | Energy consumption according to VDI cycle | kWh/h  | 0           |            |          |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle  | kWh/h  | 0.68        | 0.62       | 0.71     |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent as per EN 16796            | kg/h   | 0.4         | 0.3        | 0.4      |
|                                                                                                                                                                                                   | 6.7   | Throughput                                | t/h    | 84          | 108        |          |
|                                                                                                                                                                                                   | 6.8.1 | Energy consumption with max. throughput   | kWh/h  | 0.83        | 1.44       | 1.48     |
| Other                                                                                                                                                                                             | 8.1   | Type of drive control                     |        | AC          |            |          |
|                                                                                                                                                                                                   | 10.7  | Sound pressure level according to EN12053 | dB (A) | 71          | 68         | 67       |
| - This data sheet according to VDI guideline 2198 only states the technical values of the standard truck. Different tyres, other masts, additional equipment etc. may result in different values. |       |                                           |        |             |            |          |

The values in the table apply to the folding stand-on platform (folded up), M-LBE battery compartment, ZT1660 mast, proportional hydraulics, fork length 1,190 mm, raised support arm lift.

- VDI no. 1.5: in double-decker mode: mast lift max. 1 t / overall load max. 2 t.

- VDI no. 1.8: lowered support arm lift: x + 48 mm. With fork length 1,150 mm: x - 40 mm. With simplex mast: x - 1 mm; triplex telescopic mast: x - 10 mm; ZZ mast: x - 29 mm.

- VDI no. 1.9: lowered support arm lift: y + 48 mm. With fork length 1,150 mm: y - 40 mm. With M-VBE, L-LBE & L high-LBE battery compartment: y + 72 mm; L-VBE: y + 117 mm.

- VDI no. 4.9: with fixed stand-on platform: 1,256 mm (1,296 mm with L high-LBE battery compartment) or 1,204 / 1,284 mm with height-adjustable tiller.

- VDI no. 4.19: with M-VBE, L-LBE & L high-LBE battery compartment: l1 + 72 mm; L-VBE: l1 + 117 mm. With folding platform folded down: l1 + 396 mm; compact, fixed platform: l1 + 357 mm; extended, fixed platform: l1 + 472 mm; L platform: l1 + 477 mm. With simplex mast: l1 + 1 mm; triplex telescopic mast: l1 + 10 mm; ZZ mast: l1 + 29 mm.

- VDI no. 4.20: with M-VBE, L-LBE & L high-LBE battery compartment: l2 + 72 mm; L-VBE: l2 + 117 mm. With folding platform folded down: l2 + 396 mm; compact, fixed platform: l2 + 357 mm; extended, fixed platform: l2 + 472 mm; L platform: l2 + 477 mm. With simplex mast: l2 + 1 mm; triplex telescopic mast: l2 + 10 mm; ZZ mast: l2 + 29 mm.

- VDI no. 4.34.1: with fork length 1,150 mm: aisle width - 40 mm. With M-VBE, L-LBE & L high-LBE battery compartment: aisle width + 72 mm; L-VBE: aisle width + 117 mm. with folding platform folded down: aisle width + 396 mm; compact, fixed platform: aisle width + 357 mm; extended, fixed platform: aisle width + 472 mm; L platform: aisle width + 477 mm. With simplex mast: aisle width + 1 mm; triplex telescopic mast: aisle width + 10 mm; ZZ mast: aisle width + 29 mm.

- VDI no. 4.34.2: with fork length 1,150 mm: aisle width - 40 mm. With M-VBE, L-LBE & L high-LBE battery compartment: aisle width + 72 mm; L-VBE: aisle width + 117 mm. with folding platform folded down: aisle width + 396 mm; compact, fixed platform: aisle width + 357 mm; extended, fixed platform: aisle width + 472 mm; L platform: aisle width + 477 mm. With simplex mast: aisle width + 1 mm; triplex telescopic mast: aisle width + 10 mm; ZZ mast: aisle width + 29 mm.

- VDI no. 4.35: with fork length 1,150 mm: Wa - 40 mm. With M-VBE, L-LBE & L high-LBE battery compartment: Wa + 72 mm; L-VBE: Wa + 117 mm. with folding platform folded down: Wa + 396 mm; compact, fixed platform: Wa + 357 mm; extended, fixed platform: Wa + 472 mm; L platform: Wa + 477 mm.

- VDI no. 5.3: With black / white hydraulics: 0.26 / 0.27 m/s.
- VDI no. 6.2: With black / white hydraulics: 1.9 kW.

The German production facilities in  
Norderstedt, Moosburg and Landsberg  
are certified as well as our Genuine Parts  
Center in Kaltenkirchen.

ISO 9001  
ISO 14001

Jungheinrich fork lift trucks meet  
European safety requirements.



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