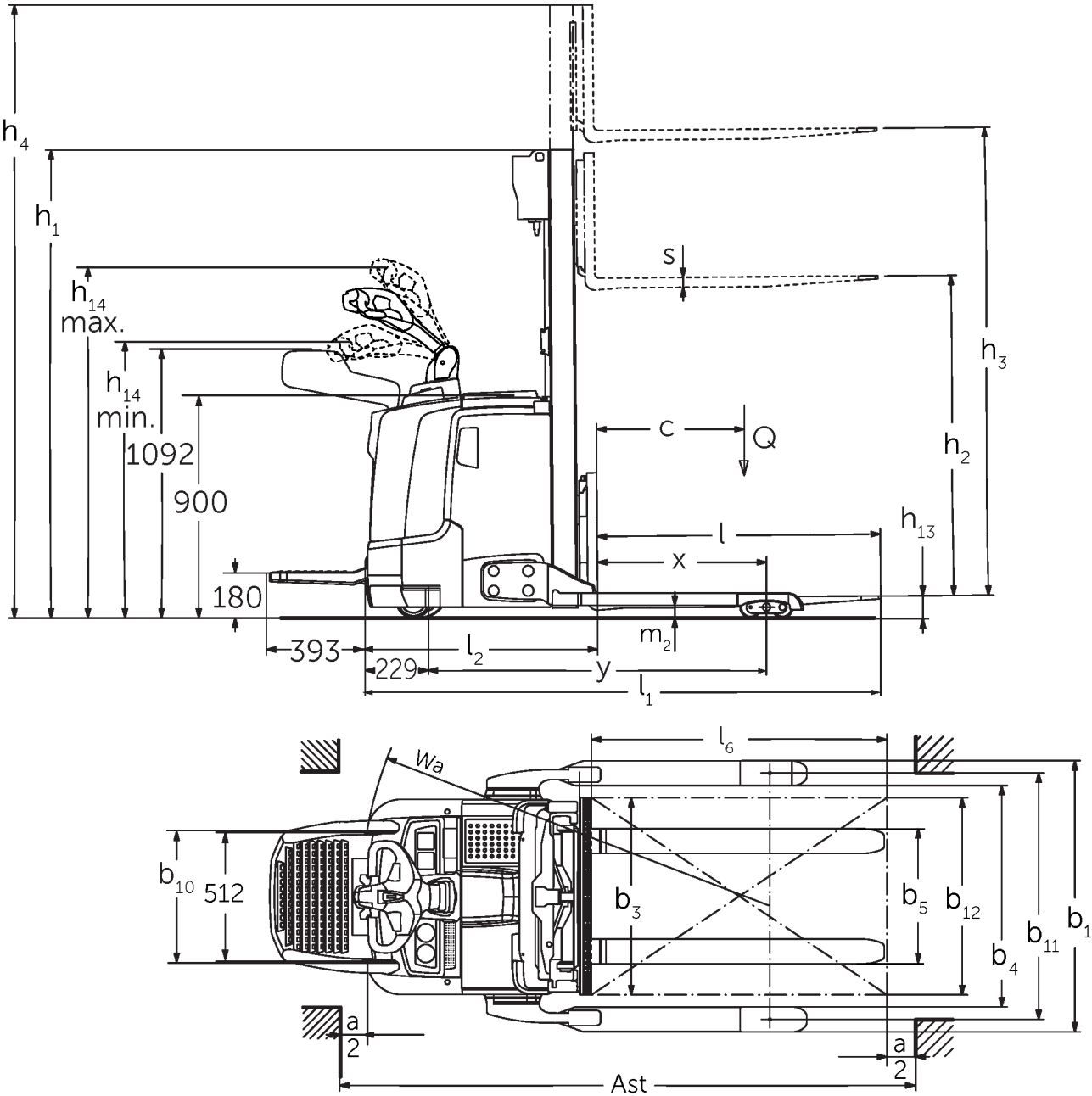




## **Electric pedestrian stacker** **ERC 212b-220b**

Lift height: 2400-6000 mm / Load capacity: 1200-2000 kg

ERC 212b-220b



Dimensional drawing ERC 2b

# ERC 212b-220b

| ERC 212b        | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|-----------------|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT  | 2500 mm   | 1750 mm                    | 100 mm         | 3070 mm                   |
|                 | 2700 mm   | 1850 mm                    | 100 mm         | 3270 mm                   |
|                 | 2900 mm   | 1950 mm                    | 100 mm         | 3470 mm                   |
|                 | 3200 mm   | 2100 mm                    | 100 mm         | 3770 mm                   |
|                 | 3600 mm   | 2300 mm                    | 100 mm         | 4170 mm                   |
| Duplex mast ZZ  | 2500 mm   | 1700 mm                    | 1225 mm        | 3070 mm                   |
|                 | 2900 mm   | 1900 mm                    | 1425 mm        | 3470 mm                   |
|                 | 3200 mm   | 2050 mm                    | 1575 mm        | 3770 mm                   |
|                 | 3600 mm   | 2250 mm                    | 1775 mm        | 4170 mm                   |
| Triplex mast DZ | 4090 mm   | 1845 mm                    | 1250 mm        | 4690 mm                   |
|                 | 4300 mm   | 1915 mm                    | 1430 mm        | 4870 mm                   |
|                 | 4700 mm   | 2050 mm                    | 1565 mm        | 5275 mm                   |
| ERC 214b        | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT  | 2500 mm   | 1750 mm                    | 100 mm         | 3070 mm                   |
|                 | 2700 mm   | 1850 mm                    | 100 mm         | 3270 mm                   |
|                 | 2900 mm   | 1950 mm                    | 100 mm         | 3470 mm                   |
|                 | 3200 mm   | 2100 mm                    | 100 mm         | 3770 mm                   |
|                 | 3600 mm   | 2300 mm                    | 100 mm         | 4170 mm                   |
|                 | 4100 mm   | 2550 mm                    | 100 mm         | 4670 mm                   |
|                 | 4300 mm   | 2650 mm                    | 100 mm         | 4870 mm                   |
|                 | 4500 mm   | 2750 mm                    | 100 mm         | 5070 mm                   |
| Duplex mast ZZ  | 2500 mm   | 1700 mm                    | 1130 mm        | 3070 mm                   |
|                 | 2900 mm   | 1900 mm                    | 1330 mm        | 3470 mm                   |
|                 | 3200 mm   | 2050 mm                    | 1480 mm        | 3770 mm                   |
|                 | 3600 mm   | 2250 mm                    | 1680 mm        | 4170 mm                   |
|                 | 4100 mm   | 2500 mm                    | 1930 mm        | 4670 mm                   |
|                 | 4300 mm   | 2600 mm                    | 2030 mm        | 4870 mm                   |
| Triplex mast DZ | 4090 mm   | 1830 mm                    | 1260 mm        | 4660 mm                   |

|                    |           |                            |                |                           |
|--------------------|-----------|----------------------------|----------------|---------------------------|
|                    | 4300 mm   | 1900 mm                    | 1330 mm        | 4870 mm                   |
|                    | 4690 mm   | 2030 mm                    | 1460 mm        | 5260 mm                   |
|                    | 5350 mm   | 2250 mm                    | 1680 mm        | 5920 mm                   |
| ERC 214b, ERC 216b | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Triplex mast DZ    | 6000 mm   | 2500 mm                    | 1930 mm        | 6570 mm                   |
| ERC 216b           | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|                    | 2400 mm   | 1750 mm                    | 100 mm         | 2970 mm                   |
|                    | 2600 mm   | 1850 mm                    | 100 mm         | 3170 mm                   |
|                    | 2800 mm   | 1950 mm                    | 100 mm         | 3370 mm                   |
|                    | 3100 mm   | 2100 mm                    | 100 mm         | 3670 mm                   |
|                    | 3500 mm   | 2300 mm                    | 100 mm         | 4070 mm                   |
|                    | 3800 mm   | 2450 mm                    | 100 mm         | 4370 mm                   |
|                    | 4000 mm   | 2550 mm                    | 100 mm         | 4570 mm                   |
|                    | 4200 mm   | 2650 mm                    | 100 mm         | 4770 mm                   |
|                    | 4400 mm   | 2750 mm                    | 100 mm         | 4970 mm                   |
| Duplex mast ZT     |           |                            |                |                           |
|                    | 2400 mm   | 1700 mm                    | 1130 mm        | 2970 mm                   |
|                    | 2800 mm   | 1900 mm                    | 1330 mm        | 3370 mm                   |
|                    | 3100 mm   | 2050 mm                    | 1480 mm        | 3670 mm                   |
|                    | 3500 mm   | 2250 mm                    | 1680 mm        | 4070 mm                   |
|                    | 4000 mm   | 2500 mm                    | 1930 mm        | 4570 mm                   |
|                    | 4200 mm   | 2600 mm                    | 2030 mm        | 4770 mm                   |
| Duplex mast ZZ     |           |                            |                |                           |
|                    | 3990 mm   | 1830 mm                    | 1260 mm        | 4560 mm                   |
|                    | 4200 mm   | 1900 mm                    | 1330 mm        | 4770 mm                   |
|                    | 4590 mm   | 2030 mm                    | 1460 mm        | 5160 mm                   |
|                    | 5250 mm   | 2250 mm                    | 1680 mm        | 5820 mm                   |
| Triplex mast DZ    |           |                            |                |                           |
|                    | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| ERC 220b           |           |                            |                |                           |
|                    | 2540 mm   | 1950 mm                    | 100 mm         | 3195 mm                   |
|                    | 2840 mm   | 2100 mm                    | 100 mm         | 3495 mm                   |
|                    | 3540 mm   | 2450 mm                    | 100 mm         | 4195 mm                   |
| Duplex mast ZT     |           |                            |                |                           |
|                    | 2540 mm   | 1900 mm                    | 1245 mm        | 3195 mm                   |
| Duplex mast ZZ     |           |                            |                |                           |

|                 |         |         |         |         |
|-----------------|---------|---------|---------|---------|
|                 | 2840 mm | 2050 mm | 1395 mm | 3495 mm |
|                 | 3540 mm | 2400 mm | 1745 mm | 4195 mm |
| Triplex mast DZ | 3750 mm | 1900 mm | 1218 mm | 4432 mm |
|                 | 4200 mm | 2050 mm | 1368 mm | 4882 mm |
|                 | 4800 mm | 2250 mm | 1568 mm | 5482 mm |

# VDI table

|                  |        |                                                          |           |                   |                  |                  |                 |
|------------------|--------|----------------------------------------------------------|-----------|-------------------|------------------|------------------|-----------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)                   |           | Jungheinrich      |                  |                  |                 |
|                  | 1.2    | Manufacturer's type designation                          |           | ERC 212b          | ERC 214b         | ERC 216b         | ERC 220b        |
|                  | 1.3    | Drive type                                               |           | electric          |                  |                  |                 |
|                  | 1.4    | Operation                                                |           | Pedestrian        |                  |                  |                 |
|                  | 1.5    | Load capacity/load                                       | Q kg      | 1200              | 1400             | 1600             | 2000            |
|                  | 1.6    | Load centre distance                                     | c mm      | 600               |                  |                  |                 |
|                  | 1.8    | Load distance, centre of drive axle to fork              | x mm      | 688               | 668              |                  |                 |
|                  | 1.9    | Wheelbase                                                | y mm      | 1339              | 1411             |                  |                 |
| Weights          | 2.1.1  | Service weight (incl. battery)                           | kg        | 1170              | 1215             | 1250             | 1316            |
|                  | 2.2    | Axle load laden front/rear                               | kg        | 900 / 1470        | 920 / 1730       | 920 / 1930       | 983 / 2332      |
|                  | 2.3    | Axle load unladen front/rear                             | kg        | 830 / 340         | 850 / 400        |                  | 906 / 410       |
| Wheels/chassis   | 3.1    | Tyres                                                    |           | Polyurethane (PU) |                  |                  |                 |
|                  | 3.2    | Tyre size, front                                         |           | Ø 230 x 77        |                  |                  |                 |
|                  | 3.3    | Tyre size, rear                                          |           | Ø 85 x 75         |                  |                  |                 |
|                  | 3.4    | Additional wheels                                        |           | Ø 140 x 54        |                  |                  |                 |
|                  | 3.5    | Wheels, number front/back (x=driven)                     |           | 1x +1/4           |                  |                  |                 |
|                  | 3.6    | Tread width, front                                       | b10 mm    | 515               |                  |                  |                 |
|                  | 3.7    | Tread width, rear                                        | b11 mm    | 1000              |                  |                  |                 |
| Basic dimensions | 4.2    | Retracted mast height (h1)                               | h1 mm     | 1950              |                  |                  | 2100            |
|                  | 4.3    | Free lift (h2)                                           | h2 mm     | 100               |                  |                  |                 |
|                  | 4.4    | Lift (h3)                                                | h3 mm     | 2900              | 2800             | 2840             |                 |
|                  | 4.5    | Extended mast height (h4)                                | h4 mm     | 3470              | 3370             | 3495             |                 |
|                  | 4.9    | Height of tiller handle in drive position min./max.      | h14 mm    | 1170 / 1390       |                  |                  |                 |
|                  | 4.19   | Total length                                             | l1 mm     | 2030              | 2123             |                  |                 |
|                  | 4.20   | Length including fork shank                              | l2 mm     | 880               | 973              |                  |                 |
|                  | 4.21.1 | total width                                              | b1 mm     | 1100              |                  |                  |                 |
|                  | 4.22   | Fork dimensions                                          | s/ e/l mm | 40 x 100 x 1150   |                  |                  | 40 x 120 x 1150 |
|                  | 4.23   | Fork carriage connection class                           |           | 2A                |                  |                  | 2B              |
|                  | 4.24   | Fork carriage width                                      | b3 mm     | 800               |                  |                  |                 |
|                  | 4.32   | Ground clearance centre of wheelbase                     | m2 mm     | 50                |                  |                  | 40              |
|                  | 4.34.1 | Aisle width (pallet 1000x1200 sideways)                  | Ast mm    | 2252              | 2322             |                  |                 |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)                     | Ast mm    | 2302              | 2372             |                  |                 |
|                  | 4.35   | Turning radius                                           | Wa mm     | 1570              | 1640             |                  |                 |
| Performance data | 5.1    | Travel speed laden/unladen (Efficiency   drivePLUS)      | km/h      | 6 / 6   9 / 11    |                  |                  | 6 / 6   8 / 10  |
|                  | 5.2    | Lift speed laden/unladen                                 | m/s       | 0.2 / 0.4         | 0.16 / 0.3       | 0.15 / 0.3       | 0.11 / 0.34     |
|                  | 5.3    | Lowering speed laden/unladen                             | m/s       | 0.45 / 0.35       |                  |                  | 0.5 / 0.35      |
|                  | 5.8    | Max. gradeability laden/unladen (Efficiency   drivePLUS) | %         | 10 / 16   10 / 20 | 9 / 16   10 / 20 | 8 / 16   10 / 20 | 5 / 16   6 / 20 |
|                  | 5.10   | Service brake                                            |           | generative        |                  |                  |                 |

|                                                                                                                                                                                                   |       |                                                              |        |             |             |             |          |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------|--------|-------------|-------------|-------------|----------|
| Electric motor/electronics                                                                                                                                                                        | 6.1   | Drive motor, performance S2 60 min (Efficiency   drivePLUS)  | kW     | 2.8   3.2   |             |             |          |
|                                                                                                                                                                                                   | 6.2   | Lift motor, performance with S3                              | kW     | 3           |             |             |          |
|                                                                                                                                                                                                   | 6.3   | Battery according to DIN 43531/35/36                         |        | DIN 43535 B |             |             |          |
|                                                                                                                                                                                                   | 6.4   | Battery voltage/nominal capacity                             | V / Ah | 24 / 300    | 24 / 375    |             |          |
|                                                                                                                                                                                                   | 6.5   | Battery weight                                               | kg     | 238         | 273         |             |          |
|                                                                                                                                                                                                   | 6.6   | Energy consumption according to VDI cycle                    | kWh/h  | -           |             |             | 1.45     |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle (Efficiency   PLUS) | kWh/h  | 0.63   0.64 | 0.81   0.74 | 0.86   0.83 | 1.07   - |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           | kg/h   | 0.3   0.3   | 0.4   0.4   | 0.5   0.4   | 0.6   -  |
|                                                                                                                                                                                                   | 6.7   | Throughput (Efficiency   PLUS)                               | t/h    | 56   57     | 64   65     | 71   73     | 85   -   |
|                                                                                                                                                                                                   | 6.8.1 | Energy consumption with max. throughput (Efficiency   PLUS)  | kWh/h  | 1.63   1.65 | 1.65   1.64 | 1.67   1.65 | 2.13   - |
| Other                                                                                                                                                                                             | 8.1   | Type of drive control                                        |        | AC          |             |             |          |
|                                                                                                                                                                                                   | 10.7  | Sound pressure level according to EN12053                    | dB (A) | 64          |             |             |          |
| - 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 for the M-VBE (ERC 212b) / L-VBE (ERC 214b / 216b / 220b) battery compartment; mast ZT2800 / 2840 / 2900; fork length 1,150 mm, tread width 1,000 mm.

- VDI no. 1.8 with ERC 212b / 214b / 216b: with DZ mast: x - 3 mm.
- VDI no. 1.8 with ERC 220b: with DZ mast: x - 32 mm.
- VDI no. 1.9 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: y - 72 mm.
- VDI no. 3.7: depending on the set tread width: 1,000 mm / 1,170 mm / 1,370 mm.
- VDI no. 4.19 with ERC 212b / 214b / 216b: with DZ mast: l1 + 3 mm.
- VDI no. 4.19 with ERC 220b: with DZ mast: l1 + 32 mm.
- VDI no. 4.19 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: l1 - 72 mm.
- VDI no. 4.20 with ERC 212b / 214b / 216b: with DZ mast: l2 + 3 mm.
- VDI no. 4.20 with ERC 220b: with DZ mast: l2 + 32 mm.
- VDI no. 4.20 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: l2 - 72 mm.
- VDI no. 4.21: depending on the set tread width: 1,100 mm / 1,270 mm / 1,470 mm.
- VDI no. 4.24: optional: 975 mm available.
- VDI no. 4.34.1: diagonal as per VDI: aisle width + 203 mm / + 203 mm / + 259 mm (depending on tread width).
- VDI no. 4.34.1 with ERC 212b / 214b / 216b: with DZ mast: aisle width + 3 mm.
- VDI no. 4.34.1 with ERC 220b: with DZ mast: aisle width + 32 mm.
- VDI no. 4.34.1 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: aisle width - 72 mm.
- VDI no. 4.34.2: diagonal as per VDI: aisle width + 133 mm / + 133 mm / + 209 mm (depending on tread width).
- VDI no. 4.34.2 with ERC 212b / 214b / 216b: with DZ mast: aisle width + 3 mm.
- VDI no. 4.34.2 with ERC 220b: with DZ mast: aisle width + 32 mm.
- VDI no. 4.34.2 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: aisle width - 72 mm.
- VDI no. 4.35 with ERC 214b / 216b / 220b: with M Li-ion battery compartment: Wa - 72 mm.
- VDI no. 5.1: with Efficiency performance package without operator restraint system: 6.0 / 6.0 km/h; with operator restraint system: 9.0 / 9.0 km/h.
- VDI no. 5.3: with ZZ / DZ mast: the lowering speed in free lift is below the specified values.

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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