



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

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

ERC 212b-220b



Maßzeichnung 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) |
| Duplex mast ZT     | 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 ZZ     | 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                   |
| Triplex mast DZ    | 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                   |
| ERC 220b           | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |

|                 |         |         |         |         |
|-----------------|---------|---------|---------|---------|
| Duplex mast ZT  | 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 ZZ  | 2540 mm | 1900 mm | 1245 mm | 3195 mm |
|                 | 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 2b (2019)     |            |            |                 |
|                          | 1.3     | Drive                                               |                                | 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            |
| 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/suspension system | 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/<br>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        |                  |                  |                 |
| E-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 level as per EN12053, operator's ear                   | 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.

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ISO 9001  
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