



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

**ERC 212z-220z**

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



# ERC 212z-220z



Dimensional drawing ERC 2z

**ERC 212z-220z**

| ERC 212z        |  | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|-----------------|--|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT  |  | 2500 mm   | 1750 mm                    | 100 mm         | 2975 mm                   |
|                 |  | 2700 mm   | 1850 mm                    | 100 mm         | 3175 mm                   |
|                 |  | 2900 mm   | 1950 mm                    | 100 mm         | 3375 mm                   |
|                 |  | 3200 mm   | 2100 mm                    | 100 mm         | 3675 mm                   |
|                 |  | 3600 mm   | 2300 mm                    | 100 mm         | 4075 mm                   |
|                 |  | 4100 mm   | 2550 mm                    | 100 mm         | 4575 mm                   |
|                 |  | 4300 mm   | 2650 mm                    | 100 mm         | 4775 mm                   |
| Duplex mast ZZ  |  | 2500 mm   | 1700 mm                    | 1225 mm        | 2975 mm                   |
|                 |  | 2900 mm   | 1900 mm                    | 1425 mm        | 3375 mm                   |
|                 |  | 3200 mm   | 2050 mm                    | 1575 mm        | 3675 mm                   |
|                 |  | 3600 mm   | 2250 mm                    | 1775 mm        | 4075 mm                   |
|                 |  | 4100 mm   | 2500 mm                    | 2025 mm        | 4575 mm                   |
|                 |  | 4300 mm   | 2600 mm                    | 2125 mm        | 4775 mm                   |
| Triplex mast DZ |  | 4090 mm   | 1845 mm                    | 1338 mm        | 4597 mm                   |
|                 |  | 4300 mm   | 1915 mm                    | 1408 mm        | 4807 mm                   |
|                 |  | 4700 mm   | 2050 mm                    | 1543 mm        | 5207 mm                   |
| ERC 214z        |  | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT  |  | 2500 mm   | 1750 mm                    | 100 mm         | 2975 mm                   |
|                 |  | 2700 mm   | 1850 mm                    | 100 mm         | 3175 mm                   |
|                 |  | 2900 mm   | 1950 mm                    | 100 mm         | 3375 mm                   |
|                 |  | 3200 mm   | 2100 mm                    | 100 mm         | 3675 mm                   |
|                 |  | 3600 mm   | 2300 mm                    | 100 mm         | 4075 mm                   |
|                 |  | 4100 mm   | 2550 mm                    | 100 mm         | 4575 mm                   |
|                 |  | 4300 mm   | 2650 mm                    | 100 mm         | 4775 mm                   |
|                 |  | 4500 mm   | 2750 mm                    | 100 mm         | 4975 mm                   |
| Duplex mast ZZ  |  | 2500 mm   | 1700 mm                    | 1225 mm        | 2975 mm                   |
|                 |  | 2900 mm   | 1900 mm                    | 1425 mm        | 3375 mm                   |
|                 |  | 3200 mm   | 2050 mm                    | 1575 mm        | 3675 mm                   |
|                 |  | 3600 mm   | 2250 mm                    | 1775 mm        | 4075 mm                   |
|                 |  | 4100 mm   | 2500 mm                    | 2025 mm        | 4575 mm                   |

|                    |           |                            |                |                           |
|--------------------|-----------|----------------------------|----------------|---------------------------|
|                    | 4300 mm   | 2600 mm                    | 2125 mm        | 4775 mm                   |
| Triplex mast DZ    | 4090 mm   | 1830 mm                    | 1341 mm        | 4579 mm                   |
|                    | 4300 mm   | 1900 mm                    | 1411 mm        | 4789 mm                   |
|                    | 4690 mm   | 2030 mm                    | 1541 mm        | 5179 mm                   |
|                    | 5350 mm   | 2250 mm                    | 1761 mm        | 5839 mm                   |
|                    |           |                            |                |                           |
| ERC 214z, ERC 216z | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Triplex mast DZ    | 6000 mm   | 2500 mm                    | 1968 mm        | 6532 mm                   |
| ERC 216z           | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT     | 2400 mm   | 1750 mm                    | 100 mm         | 2925 mm                   |
|                    | 2600 mm   | 1850 mm                    | 100 mm         | 3125 mm                   |
|                    | 2800 mm   | 1950 mm                    | 100 mm         | 3325 mm                   |
|                    | 3100 mm   | 2100 mm                    | 100 mm         | 3625 mm                   |
|                    | 3500 mm   | 2300 mm                    | 100 mm         | 4025 mm                   |
|                    | 3800 mm   | 2450 mm                    | 100 mm         | 4325 mm                   |
|                    | 4000 mm   | 2550 mm                    | 100 mm         | 4525 mm                   |
|                    | 4200 mm   | 2650 mm                    | 100 mm         | 4725 mm                   |
|                    | 4400 mm   | 2750 mm                    | 100 mm         | 4925 mm                   |
|                    |           |                            |                |                           |
| Duplex mast ZZ     | 2400 mm   | 1700 mm                    | 1175 mm        | 2925 mm                   |
|                    | 2800 mm   | 1900 mm                    | 1375 mm        | 3325 mm                   |
|                    | 3100 mm   | 2050 mm                    | 1525 mm        | 3625 mm                   |
|                    | 3500 mm   | 2250 mm                    | 1725 mm        | 4025 mm                   |
|                    | 4000 mm   | 2500 mm                    | 1975 mm        | 4525 mm                   |
|                    | 4200 mm   | 2600 mm                    | 2075 mm        | 4725 mm                   |
|                    |           |                            |                |                           |
| Triplex mast DZ    | 3990 mm   | 1830 mm                    | 1298 mm        | 4522 mm                   |
|                    | 4200 mm   | 1900 mm                    | 1368 mm        | 4732 mm                   |
|                    | 4590 mm   | 2030 mm                    | 1498 mm        | 5122 mm                   |
|                    | 5250 mm   | 2250 mm                    | 1718 mm        | 5782 mm                   |
| ERC 220z           | 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 2z (2019)     |             |             |             |
|                          | 1.3       | Drive                                               |           | Electric          |             |             |             |
|                          | 1.4       | Operation                                           |           | Pedestrian        |             |             |             |
|                          | 1.5       | Load capacity/load                                  | Q kg      | 1200              | 1400        | 1600        | 2000        |
|                          | 1.5.1     | Rated capacity/load with mast lift                  | Q kg      | 1200              | 1400        | 1600        | 2000        |
|                          | 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      | 910               |             |             |             |
| 1.9                      | Wheelbase | y mm                                                | 1570      | 1591              |             |             |             |
| Weights                  | 2.1.1     | Service weight (incl. battery)                      | kg        | 1260              | 1320        |             | 1399        |
|                          | 2.2       | Axle load laden front/rear                          | kg        | 1190 / 1270       | 1260 / 1460 | 1300 / 1620 | 1414 / 1989 |
|                          | 2.3       | Axle load unladen front/rear                        | kg        | 950 / 310         | 990 / 330   |             | 1027 / 372  |
| 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 95 / 75    |             |             | Ø 85 x 75   |
|                          | 3.4       | Additional wheels                                   |           | Ø 180 x 75        |             |             |             |
|                          | 3.5       | Wheels, number front/back (x=driven)                |           | 1x +1/2           |             |             | 1x + 1/4    |
|                          | 3.6       | Tread width, front                                  | b10 mm    | 515               |             |             |             |
|                          | 3.7       | Tread width, rear                                   | b11 mm    | 385               |             |             |             |
| 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     | 3375              | 3325        | 3495        |             |
|                          | 4.6       | Initial lift                                        | h5 mm     | 122               |             |             |             |
|                          | 4.9       | Height of tiller handle in drive position min./max. | h14 mm    | 1170 / 1390       |             |             |             |
|                          | 4.15      | Height, lowered                                     | h13 mm    | 90                |             |             |             |
|                          | 4.19      | total length                                        | l1 mm     | 2039              | 2060        |             |             |
|                          | 4.20      | Length including fork shank                         | l2 mm     | 889               | 910         |             |             |
|                          | 4.21.1    | total width                                         | b1 mm     | 800               |             |             |             |
|                          | 4.21.2    | total width                                         | b2 mm     | -                 |             |             | 800         |
|                          | 4.22      | Fork dimensions                                     | s/ e/l mm | 56 x 185 x 1150   |             |             |             |
|                          | 4.25      | Width across forks                                  | b5 mm     | 570               |             |             |             |
|                          | 4.32      | Ground clearance centre of wheelbase                | m2 mm     | 18                |             |             |             |
|                          | 4.34.1    | Aisle width (pallet 1000x1200 sideways)             | Ast mm    | 2252              | 2273        |             |             |
|                          | 4.34.2    | Aisle width (pallet 800x1200 length)                | Ast mm    | 2302              | 2323        |             |             |
|                          | 4.35      | Turning radius                                      | Wa mm     | 1812              | 1833        |             |             |

|                                                                                                                                                                                                   |                                                             |                                                              |             |                   |                  |                  |                 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|--------------------------------------------------------------|-------------|-------------------|------------------|------------------|-----------------|
| 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 / -         | 0.15 / 0.3       | 0.11 / 0.34     |
|                                                                                                                                                                                                   | 5.3                                                         | Lowering speed laden/unladen                                 | m/s         | 0.45 / 0.35       | - / -            | 0.45 / 0.3       | 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 / 375          |                  |                  |                 |
|                                                                                                                                                                                                   | 6.5                                                         | Battery weight                                               | kg          | 294               |                  |                  |                 |
|                                                                                                                                                                                                   | 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   0.76      | 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 LX-LBE battery compartment; mast ZT2800 / 2840 / 2900, raised support arms.  
The battery compartments have no influence on the truck dimensions.

- VDI no. 1.8 with ERC 212z / 214z / 216z: with DZ mast: x - 42 mm; with lowered support arms: x + 54 mm.
- VDI no. 1.8 with ERC 220z: with DZ mast: x - 71 mm; with lowered support arms: x + 54 mm.
- VDI no. 1.9: with lowered support arms: x + 54 mm.
- VDI no. 3.3: tandem: Ø 85 x 75 mm.
- VDI no. 4.19 with ERC 212z / 214z / 216z: with DZ mast: l1 + 42 mm.
- VDI no. 4.19 with ERC 220z: with DZ mast: l1 + 71 mm.
- VDI no. 4.20 with ERC 212z / 214z / 216z: with DZ mast: l2 + 42 mm.
- VDI no. 4.20 with ERC 220z: with DZ mast: l2 + 71 mm.
- VDI no. 4.34.1 with ERC 212z / 214z / 216z: diagonal as per VDI: aisle width + 367 mm. with DZ mast: aisle width + 42 mm.
- VDI no. 4.34.1 with ERC 220z: diagonal as per VDI: aisle width + 367 mm. with DZ mast: aisle width + 71 mm.
- VDI no. 4.34.2 with ERC 212z / 214z / 216z: diagonal as per VDI: aisle width + 204 mm. with DZ mast: aisle width + 42 mm.
- VDI no. 4.34.2 with ERC 220z: diagonal as per VDI: aisle width + 204 mm. with DZ mast: aisle width + 71 mm.
- VDI no. 4.35: with lowered support arms: + 54 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.
- VDI no. 5.8: the values in the table relate to the rated load (1.5). With maximum load in the support arm lift (1.5.2): max. gradeability laden = 5%.

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