



## **Electric sideways-seated stacker** **ESC 214-316 / 214z-316z**

Lift height: 2800-6200 mm / Load capacity: 1400-1600 kg

# ESC 214-316 / 214z-316z



# ESC 214-316 / 214z-316z



# ESC 214-316 / 214z-316z

| ESC 214, ESC 214z                    | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Height of overhead guard (cab) |
|--------------------------------------|-----------|----------------------------|----------------|---------------------------|--------------------------------|
| Duplex mast ZT                       | 2900 mm   | 1995 mm                    | 100 mm         | 3422 mm                   | 2093 mm                        |
|                                      | 3200 mm   | 2145 mm                    | 100 mm         | 3722 mm                   | 2243 mm                        |
|                                      | 3600 mm   | 2345 mm                    | 100 mm         | 4122 mm                   | 2288 mm                        |
|                                      | 4100 mm   | 2595 mm                    | 100 mm         | 4622 mm                   | 2288 mm                        |
|                                      | 4300 mm   | 2695 mm                    | 100 mm         | 4822 mm                   | 2288 mm                        |
| Duplex mast ZZ                       | 2900 mm   | 1945 mm                    | 1420 mm        | 3422 mm                   | 2093 mm                        |
|                                      | 3200 mm   | 2095 mm                    | 1570 mm        | 3722 mm                   | 2243 mm                        |
|                                      | 3600 mm   | 2295 mm                    | 1770 mm        | 4122 mm                   | 2288 mm                        |
|                                      | 4100 mm   | 2545 mm                    | 2020 mm        | 4622 mm                   | 2288 mm                        |
|                                      | 4300 mm   | 2645 mm                    | 2120 mm        | 4822 mm                   | 2288 mm                        |
| Triplex mast DZ                      | 4300 mm   | 1945 mm                    | 1426 mm        | 4830 mm                   | 2093 mm                        |
|                                      | 5350 mm   | 2295 mm                    | 1776 mm        | 5880 mm                   | 2288 mm                        |
| ESC 216, ESC 216z, ESC 316, ESC 316z | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Height of overhead guard (cab) |
| Duplex mast ZT                       | 2800 mm   | 1995 mm                    | 100 mm         | 3372 mm                   | 2093 mm                        |
|                                      | 3100 mm   | 2145 mm                    | 100 mm         | 3672 mm                   | 2243 mm                        |
|                                      | 3500 mm   | 2345 mm                    | 100 mm         | 4072 mm                   | 2288 mm                        |
|                                      | 4000 mm   | 2595 mm                    | 100 mm         | 4572 mm                   | 2288 mm                        |
|                                      | 4200 mm   | 2695 mm                    | 100 mm         | 4772 mm                   | 2288 mm                        |
| Duplex mast ZZ                       | 2800 mm   | 1945 mm                    | 1373 mm        | 3372 mm                   | 2093 mm                        |
|                                      | 3100 mm   | 2095 mm                    | 1523 mm        | 3672 mm                   | 2243 mm                        |
|                                      | 3500 mm   | 2295 mm                    | 1723 mm        | 4072 mm                   | 2288 mm                        |
|                                      | 4000 mm   | 2545 mm                    | 1973 mm        | 4572 mm                   | 2288 mm                        |
|                                      | 4200 mm   | 2645 mm                    | 2073 mm        | 4772 mm                   | 2288 mm                        |
| Triplex mast DZ                      | 4200 mm   | 1945 mm                    | 1376 mm        | 4770 mm                   | 2093 mm                        |
|                                      | 5250 mm   | 2295 mm                    | 1726 mm        | 5820 mm                   | 2288 mm                        |
|                                      | 6200 mm   | 2615 mm                    | 2046 mm        | 6790 mm                   | 2288 mm                        |

# VDI table

Stand-on: 01/2025

|                          |                                      | Jungheinrich                                |                                |                   |             |             |             |             |             |      |
|--------------------------|--------------------------------------|---|--------------------------------|-------------------|-------------|-------------|-------------|-------------|-------------|------|
| Characteristic           | 1.1                                  | Manufacturer (abbreviated description)      |                                |                   |             |             |             |             |             |      |
|                          | 1.2                                  | Manufacturer's type designation             |                                | ESC 214           | ESC 216     | ESC 214z    | ESC 216z    | ESC 316     | ESC 316z    |      |
|                          | 1.3                                  | Drive                                       |                                | electric          |             |             |             |             |             |      |
|                          | 1.4                                  | Operation                                   |                                | Seat              |             |             |             |             |             |      |
|                          | 1.5                                  | Load capacity/load                          | Q kg                           | 1400              | 1600        | 1400        | 1600        |             |             |      |
|                          | 1.6                                  | Load centre distance                        | c mm                           | 600               |             |             |             |             |             |      |
|                          | 1.8                                  | Load distance, centre of drive axle to fork | x mm                           | 860               |             | 874         |             | 860         | 874         |      |
|                          | 1.9                                  | Wheelbase                                   | y mm                           | 1656              |             | 1685        |             | 1656        | 1700        |      |
|                          | Weights                              | 2.1.1                                       | Service weight (incl. battery) | kg                | 1590        |             | 1660        |             | 1746        | 1685 |
| 2.2                      |                                      | Axle load laden front/rear                  | kg                             | 1316 / 1674       | 1340 / 1850 | 1285 / 1775 | 1370 / 1890 | 1459 / 1228 | 1432 / 1857 |      |
| 2.3                      |                                      | Axle load unladen front/rear                | kg                             | 1113 / 477        |             | 1162 / 498  |             | 1891 / 518  | 1190 / 495  |      |
| 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 85         |             |             |             |             |             |      |
|                          | 3.4                                  | Additional wheels                           |                                | Ø 140 x 126       |             |             |             |             |             |      |
|                          | 3.5                                  | Wheels, number front/back (x=driven)        |                                | 2 + 1x / 4        |             |             |             |             |             |      |
|                          | 3.6                                  | Tread width, front                          | b10 mm                         | 544               |             |             |             | 645         |             |      |
|                          | 3.7                                  | Tread width, rear                           | b11 mm                         | 385               |             |             |             |             |             |      |
| Basic dimensions         | 4.2                                  | Retracted mast height (h1)                  | h1 mm                          | 1995              |             |             |             |             |             |      |
|                          | 4.3                                  | Free lift (h2)                              | h2 mm                          | 100               |             |             |             |             |             |      |
|                          | 4.4                                  | Lift (h3)                                   | h3 mm                          | 2900              | 2800        | 2900        | 2800        |             |             |      |
|                          | 4.5                                  | Extended mast height (h4)                   | h4 mm                          | 3422              |             |             |             |             |             |      |
|                          | 4.6                                  | Initial lift                                | h5 mm                          | -                 |             | 125         |             | -           | 125         |      |
|                          | 4.7                                  | Height of overhead guard (cab)              | h6 mm                          | 2095              |             |             |             |             |             |      |
|                          | 4.8                                  | Seat height/stand height                    | h7 mm                          | 1020              |             |             |             |             |             |      |
|                          | 4.15                                 | Height, lowered                             | h13 mm                         | 90                |             |             |             |             |             |      |
|                          | 4.19                                 | Overall length                              | l1 mm                          | 2125              |             | 2140        |             | 2125        | 2155        |      |
|                          | 4.20                                 | Length including fork shank                 | l2 mm                          | 975               |             | 990         |             | 975         | 1005        |      |
|                          | 4.21.1                               | total width                                 | b1 mm                          | 820               |             |             |             | 930         |             |      |
|                          | 4.22                                 | Fork dimensions                             | s/<br>e/l mm                   | 60 x 185 x 1150   |             |             |             |             |             |      |
|                          | 4.25                                 | Width across forks                          | b5 mm                          | 570               |             |             |             |             |             |      |
|                          | 4.32                                 | Ground clearance centre of wheelbase        | m2 mm                          | 30                |             | 25          |             | 30          | 25          |      |
|                          | 4.34.1                               | Aisle width (pallet 1000x1200 sideways)     | Ast mm                         | -                 |             |             |             | 2353        | 2383        |      |
| 4.34.2                   | Aisle width (pallet 800x1200 length) | Ast mm                                      | 2383                           |                   | 2398        |             | 2403        | 2433        |             |      |
| 4.35                     | Turning radius                       | Wa mm                                       | 1843                           |                   | 1872        |             | 1863        | 1907        |             |      |
| Performance data         | 5.1                                  | Travel speed laden/unladen                  | km/h                           | 9.1 / 9.1         |             |             |             |             |             |      |
|                          | 5.2                                  | Lift speed laden/unladen                    | m/s                            | 0.15 / 0.24       | 0.13 / 0.24 | 0.14 / 0.23 |             | 0.13 / 0.24 | 0.14 / 0.23 |      |
|                          | 5.3                                  | Lowering speed laden/unladen                | m/s                            | 0.42 / 0.42       |             | 0.42 / 0.38 |             | 0.42 / 0.42 | 0.42 / 0.38 |      |
|                          | 5.7                                  | Gradeability laden/unladen                  | %                              | 7 / 12            |             |             |             |             |             |      |
|                          | 5.10                                 | Service brake                               |                                | electric          |             |             |             |             |             |      |
| E-motor/<br>Electronics  | 6.1                                  | Drive motor, performance S2 60 min          | kW                             | 2.8               |             |             |             |             |             |      |
|                          | 6.2                                  | Lift motor, performance with S3             | kW                             | 3                 |             |             |             |             |             |      |
|                          | 6.3                                  | Battery according to DIN 43531/35/36        |                                | no                |             |             |             |             |             |      |
|                          | 6.4                                  | Battery voltage/nominal capacity            | V / Ah                         | 24 / 465          |             |             |             |             |             |      |
|                          | 6.5                                  | Battery weight                              | kg                             | 380               |             |             |             |             |             |      |

|   |       |   |       |      |      |      |      |      |
|---|-------|---|-------|------|------|------|------|------|
|   | 6.6   | Energy consumption according to VDI cycle | kWh/h | 0    |      |      | 2.5  |      |
|   | 6.6.1 | Energy consumption according to EN cycle  | kWh/h | 0.94 | 1.02 | 0.94 | 1.02 | 1.04 |
|   | 6.6.2 | CO2 equivalent as per EN 16796            | kg/h  | 0.5  |      |      |      |      |
| Other   | 8.1   | Type of drive control                     |       | AC   |      |      |      |      |
| - 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 mast ZT 2800 / 2900, lowered support arm lift.

VDI no. 1.8: with ESC 214z / 216z / 316z: raised support arm lift: x - 78 mm.

VDI no. 1.9: with ESC 214z / 216z / 316z: raised support arm lift: y - 78 mm.

VDI no. 4.34.2: diagonal as per VDI: aisle width + 190 mm.

VDI no. 4.35: with ESC 214z / 216z / 316z: raised support arm lift: Wa - 78 mm.

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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