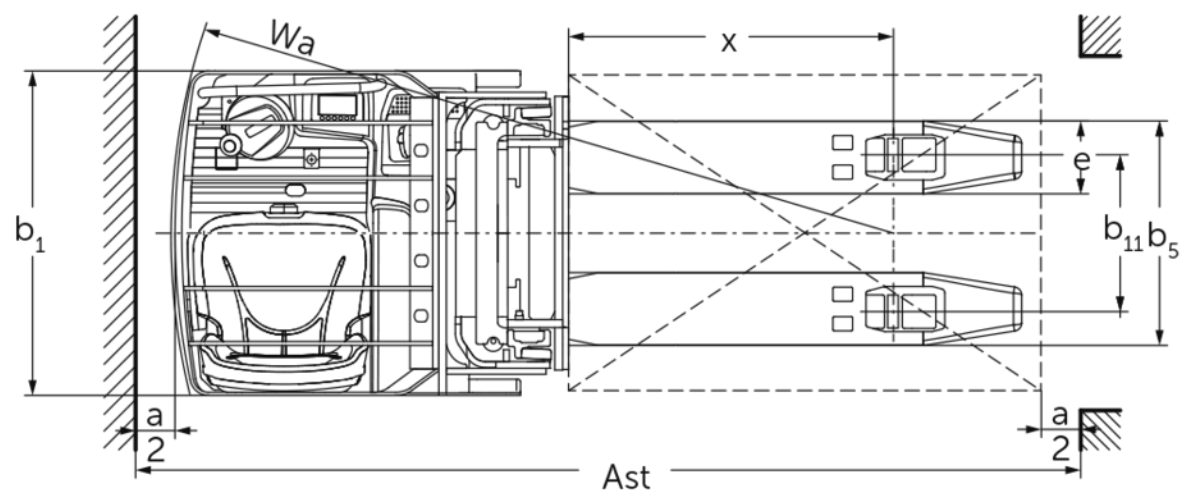
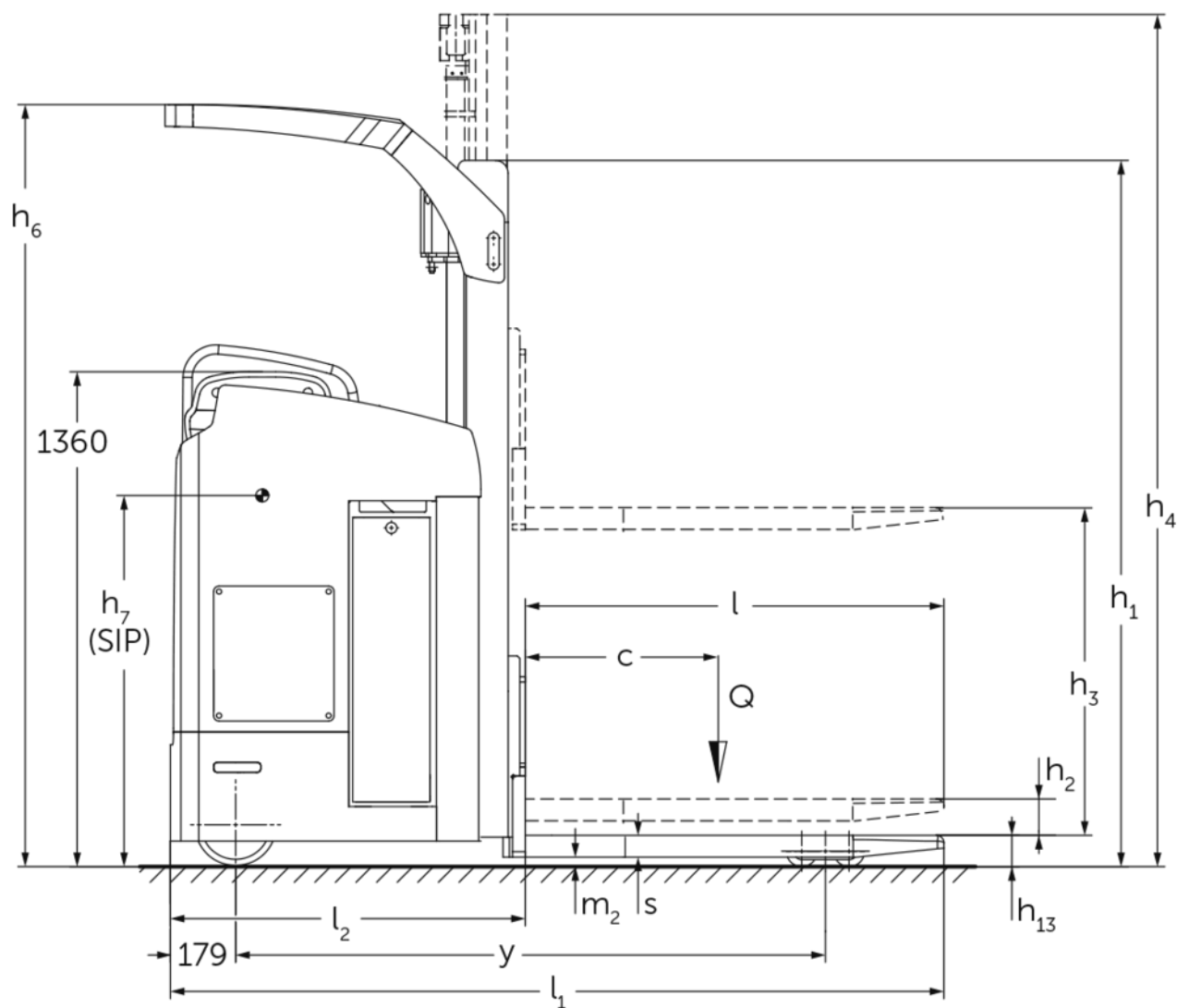


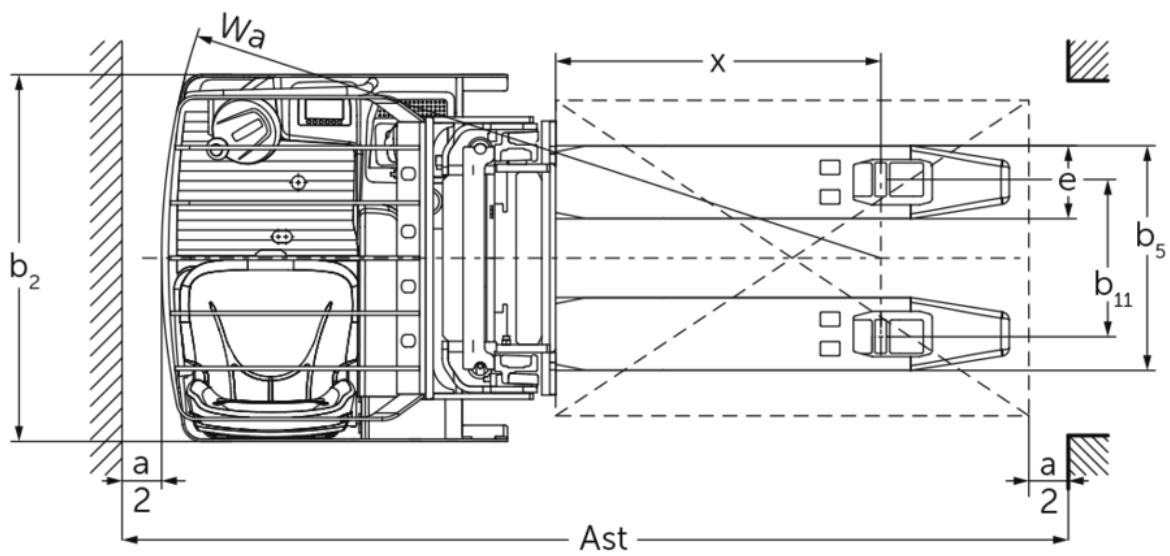


## **Electric sideways-seated stacker** **ESC 214-316 / 214z-316z**

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

ESC 214-316 / 214z-316z





## ESC 214-316 / 214z-316z

| ESC 214, 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   | 2015 mm                    | 100 mm         | 3422 mm                   | 2093 mm                        |
|                                      | 3200 mm   | 2165 mm                    | 100 mm         | 3722 mm                   | 2243 mm                        |
|                                      | 3600 mm   | 2365 mm                    | 100 mm         | 4122 mm                   | 2288 mm                        |
|                                      | 4100 mm   | 2615 mm                    | 100 mm         | 4622 mm                   | 2288 mm                        |
|                                      | 4300 mm   | 2715 mm                    | 100 mm         | 4822 mm                   | 2288 mm                        |
| Duplex mast ZZ                       | 2900 mm   | 1965 mm                    | 1420 mm        | 3422 mm                   | 2093 mm                        |
|                                      | 3200 mm   | 2115 mm                    | 1570 mm        | 3722 mm                   | 2243 mm                        |
|                                      | 3600 mm   | 2315 mm                    | 1770 mm        | 4122 mm                   | 2288 mm                        |
|                                      | 4100 mm   | 2565 mm                    | 2020 mm        | 4622 mm                   | 2288 mm                        |
|                                      | 4300 mm   | 2665 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   | 2015 mm                    | 100 mm         | 3372 mm                   | 2093 mm                        |
|                                      | 3100 mm   | 2165 mm                    | 100 mm         | 3672 mm                   | 2243 mm                        |
|                                      | 3500 mm   | 2365 mm                    | 100 mm         | 4072 mm                   | 2288 mm                        |
|                                      | 4000 mm   | 2615 mm                    | 100 mm         | 4572 mm                   | 2288 mm                        |
|                                      | 4200 mm   | 2715 mm                    | 100 mm         | 4772 mm                   | 2288 mm                        |
| Duplex mast ZZ                       | 2800 mm   | 1965 mm                    | 1373 mm        | 3372 mm                   | 2093 mm                        |
|                                      | 3100 mm   | 2115 mm                    | 1523 mm        | 3672 mm                   | 2243 mm                        |
|                                      | 3500 mm   | 2315 mm                    | 1723 mm        | 4072 mm                   | 2288 mm                        |
|                                      | 4000 mm   | 2565 mm                    | 1973 mm        | 4572 mm                   | 2288 mm                        |
|                                      | 4200 mm   | 2665 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

|                  |        |                                             |              |                   |             |             |             |             |             |
|------------------|--------|---------------------------------------------|--------------|-------------------|-------------|-------------|-------------|-------------|-------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)      |              | Jungheinrich      |             |             |             |             |             |
|                  | 1.2    | Manufacturer's type designation             |              | ESC 214           | ESC 216     | ESC 214z    | ESC 216z    | ESC 316     | ESC 316z    |
|                  | 1.3    | Drive type                                  |              | 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/chassis   | 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   | Total 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    |             |             |             |             |
| Electric motor/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.

 **JUNGHEINRICH**