



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

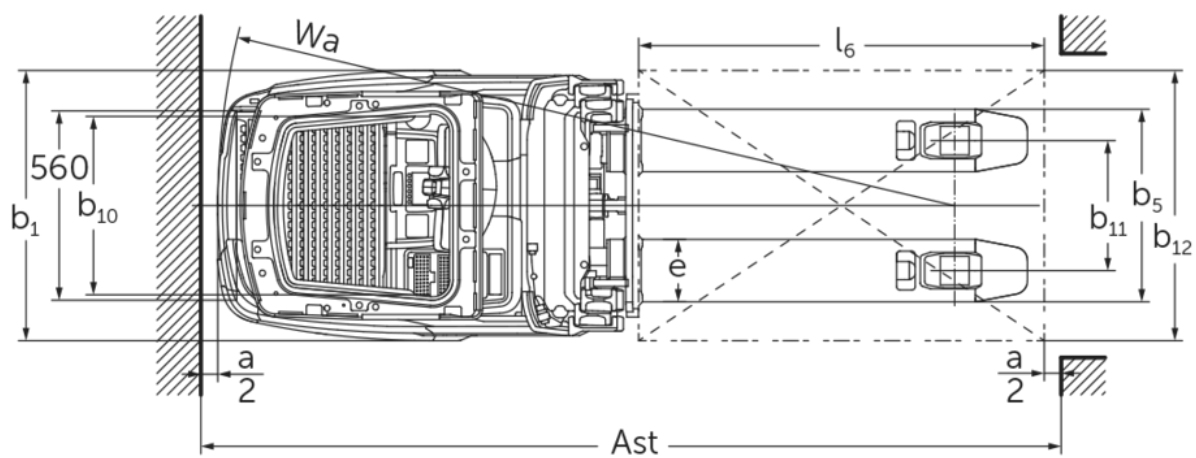
**ERC 214zi-216zi**

Lift height: 2400-6000 mm / Load capacity: 1400-1600 kg



Technical drawing of a vehicle chassis showing dimensions and load distribution. The drawing includes a side view of the vehicle body and a detailed view of the chassis components. Key dimensions and labels are as follows:

- Vertical Dimensions (Left Side):**
  - $h_4$ : Total height from ground to the top of the vehicle body.
  - $h_6$ : Height from the base of the chassis to the top of the vehicle body.
  - 1271: Specific height dimension from the base to the top of the vehicle body.
  - $h_{14}$ : Height from the base to the top of the chassis.
  - 195: Height from the base to the top of the chassis.
- Horizontal Dimensions (Bottom):**
  - 631: Distance from the base to the center of the chassis.
  - $l_2$ : Distance from the base to the center of the chassis.
  - $l_1$ : Total distance from the base to the end of the chassis.
  - $y$ : Distance from the base to the center of the chassis.
  - $m_2$ : Distance from the base to the center of the chassis.
- Load and Chassis Details:**
  - $Q$ : Downward arrow indicating a load.
  - $c$ : Horizontal distance from the base to the load  $Q$ .
  - $x$ : Horizontal distance from the base to the load  $Q$ .
  - $l$ : Horizontal distance from the base to the end of the chassis.
  - $s$ : Horizontal distance from the base to the end of the chassis.
  - $h_5$ : Height from the base to the top of the chassis.
  - $h_{13}$ : Height from the base to the top of the chassis.



# ERC 214zi-216zi

| ERC 214zi            | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
|----------------------|-----------|----------------------------|----------------|---------------------------|
| Duplex mast ZT       | 2500 mm   | 1800 mm                    | 100 mm         | 3025 mm                   |
|                      | 2760 mm   | 1930 mm                    | 100 mm         | 3285 mm                   |
|                      | 2900 mm   | 2000 mm                    | 100 mm         | 3425 mm                   |
|                      | 3160 mm   | 2130 mm                    | 100 mm         | 3685 mm                   |
|                      | 3600 mm   | 2350 mm                    | 100 mm         | 4125 mm                   |
|                      | 4100 mm   | 2600 mm                    | 100 mm         | 4625 mm                   |
|                      | 4300 mm   | 2700 mm                    | 100 mm         | 4825 mm                   |
| Triplex mast DZ      | 4090 mm   | 1880 mm                    | 1348 mm        | 4622 mm                   |
|                      | 4300 mm   | 1950 mm                    | 1418 mm        | 4832 mm                   |
|                      | 4690 mm   | 2080 mm                    | 1548 mm        | 5222 mm                   |
|                      | 5350 mm   | 2300 mm                    | 1768 mm        | 5882 mm                   |
| ERC 214zi, ERC 216zi | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Triplex mast DZ      | 6000 mm   | 2550 mm                    | 1968 mm        | 6582 mm                   |
| ERC 216zi            | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) |
| Duplex mast ZT       | 2400 mm   | 1800 mm                    | 100 mm         | 2975 mm                   |
|                      | 2660 mm   | 1930 mm                    | 100 mm         | 3235 mm                   |
|                      | 2800 mm   | 2000 mm                    | 100 mm         | 3375 mm                   |
|                      | 3060 mm   | 2130 mm                    | 100 mm         | 3635 mm                   |
|                      | 3500 mm   | 2350 mm                    | 100 mm         | 4075 mm                   |
|                      | 4000 mm   | 2600 mm                    | 100 mm         | 4575 mm                   |
|                      | 4200 mm   | 2700 mm                    | 100 mm         | 4775 mm                   |
| Triplex mast DZ      | 3990 mm   | 1880 mm                    | 1298 mm        | 4572 mm                   |
|                      | 4200 mm   | 1950 mm                    | 1368 mm        | 4782 mm                   |
|                      | 4590 mm   | 2080 mm                    | 1498 mm        | 5172 mm                   |
|                      | 5250 mm   | 2300 mm                    | 1718 mm        | 5832 mm                   |

# VDI table

|                  |        |                                                     |              |                   |             |
|------------------|--------|-----------------------------------------------------|--------------|-------------------|-------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)              |              | Jungheinrich      |             |
|                  | 1.2    | Manufacturer's type designation                     |              | ERC 214zi         | ERC 216zi   |
|                  | 1.3    | Drive type                                          |              | electric          |             |
|                  | 1.4    | Operation                                           |              | Operator platform |             |
|                  | 1.5    | Load capacity/load                                  | Q kg         | 1400              | 1600        |
|                  | 1.5.1  | Rated capacity/load with mast lift                  | Q kg         | 1400              | 1600        |
|                  | 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         | 883               |             |
|                  | 1.9    | Wheelbase                                           | y mm         | 1498              |             |
| Weights          | 2.1.1  | Service weight (incl. battery)                      | kg           | 1560              | 1570        |
|                  | 2.2    | Axle load laden front/rear                          | kg           | 1455 / 1505       | 1480 / 1690 |
|                  | 2.3    | Axle load unladen front/rear                        | kg           | 1225 / 355        | 1230 / 340  |
| 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 114       |             |
|                  | 3.5    | Wheels, number front/back (x=driven)                |              | 1x + 1 / 4        |             |
|                  | 3.6    | Tread width, front                                  | b10 mm       | 535               |             |
|                  | 3.7    | Tread width, rear                                   | b11 mm       | 385               |             |
| Basic dimensions | 4.2    | Retracted mast height (h1)                          | h1 mm        | 2300              |             |
|                  | 4.3    | Free lift (h2)                                      | h2 mm        | 1768              | 1718        |
|                  | 4.4    | Lift (h3)                                           | h3 mm        | 5350              | 5250        |
|                  | 4.5    | Extended mast height (h4)                           | h4 mm        | 5882              | 5832        |
|                  | 4.6    | Initial lift                                        | h5 mm        | 122               |             |
|                  | 4.7    | Height of overhead guard (cab)                      | h6 mm        | 2300              |             |
|                  | 4.9    | Height of tiller handle in drive position min./max. | h14 mm       | 1185 / 1245       |             |
|                  | 4.15   | Height, lowered                                     | h13 mm       | 90                |             |
|                  | 4.19   | Total length                                        | l1 mm        | 2395              |             |
|                  | 4.20   | Length including fork shank                         | l2 mm        | 1245              |             |
|                  | 4.21.1 | total width                                         | b1 mm        | 800               |             |
|                  | 4.22   | Fork dimensions                                     | s/e/<br>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       | 2595              |             |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)                | Ast mm       | 2645              |             |
|                  | 4.35   | Turning radius                                      | Wa mm        | 2129              |             |

|                                                                                                                                                                                                   |       |                                           |        |                     |      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------------------------------|--------|---------------------|------|
| Performance data                                                                                                                                                                                  | 5.1   | Travel speed laden/unladen                | km/h   | 9.2 / 12            |      |
|                                                                                                                                                                                                   | 5.2   | Lift speed laden/unladen                  | m/s    | 0.19 / 0.35         |      |
|                                                                                                                                                                                                   | 5.3   | Lowering speed laden/unladen              | m/s    | 0.49 / 0.49         |      |
|                                                                                                                                                                                                   | 5.8   | Max. gradeability laden/unladen           | %      | 8 / 16              |      |
|                                                                                                                                                                                                   | 5.10  | Service brake                             |        | generative          |      |
| Electric motor/electronics                                                                                                                                                                        | 6.1   | Drive motor, performance S2 60 min        | kW     | 3.2                 |      |
|                                                                                                                                                                                                   | 6.2   | Lift motor, performance with S3           | kW     | 3                   |      |
|                                                                                                                                                                                                   | 6.3   | Battery according to DIN 43531/35/36      |        | Jungheinrich Li-ion |      |
|                                                                                                                                                                                                   | 6.4   | Battery voltage/nominal capacity          | V / Ah | 24 / 260            |      |
|                                                                                                                                                                                                   | 6.5   | Battery weight                            | kg     | 98                  |      |
|                                                                                                                                                                                                   | 6.6   | Energy consumption according to VDI cycle | kWh/h  | 0                   |      |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle  | kWh/h  | 0.98                |      |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent as per EN 16796            | kg/h   | 0.5                 |      |
|                                                                                                                                                                                                   | 6.7   | Throughput                                | t/h    | 75                  | 83   |
|                                                                                                                                                                                                   | 6.8.1 | Energy consumption with max. throughput   | kWh/h  | 1.92                | 2.14 |
| Other                                                                                                                                                                                             | 8.1   | Type of drive control                     |        | AC                  |      |
|                                                                                                                                                                                                   | 10.7  | Sound pressure level according to EN12053 | dB (A) | 68                  |      |
| - 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 260-Ah Li-ion battery, DZ 5350 / DZ 5250 mast, raised support arms, with overhead guard, without bumper.

- VDI no. 1.5: in double-decker operation (optional): mast lift max. half rated load / overall load max. 2.0 t
- VDI no. 1.5.1: in double-decker operation (optional): mast lift max. half rated load / overall load max. 2.0 t
- VDI no. 1.5.2: in double-decker operation (optional): mast lift max. half rated load / overall load max. 2.0 t
- VDI no. 1.8: with lowered support arms: x + 51 mm; with duplex telescopic mast: x + 32 mm
- VDI no. 1.9: with lowered support arms: y + 51 mm
- VDI no. 4.19: with duplex telescopic mast: l1 - 32 mm
- VDI no. 4.20: with duplex telescopic mast: l2 - 32 mm
- VDI no. 4.34.1: diagonal as per VDI: aisle width + 345 mm; with duplex telescopic mast: aisle width - 32 mm
- VDI no. 4.34.2: diagonal as per VDI: aisle width + 194 mm; with duplex telescopic mast: aisle width - 32 mm
- VDI no. 4.35: with lowered support arms: Wa + 51 mm
- VDI no. 6.2: with S3 = 11%
- VDI no. 6.5: with 130 Ah = 76 kg

The German production facilities in  
Norderstedt, Moosburg and Landsberg  
are certified as well as our Genuine Parts  
Center in Kaltenkirchen.

 **JUNGHEINRICH**