



## **Electric sideways-seated pallet truck**

### **ESE 220–320**

Lift height: 125 mm / Load capacity: 2000 kg

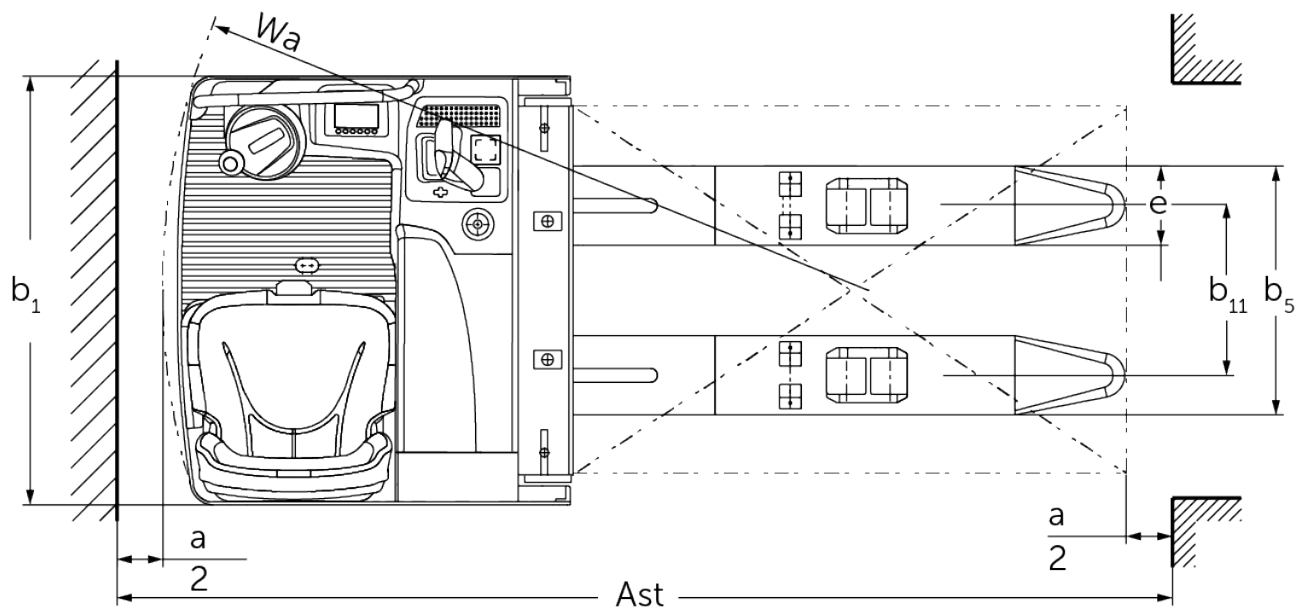
Technical drawing of a mechanical assembly, likely a pump or motor, showing dimensions and labels. The drawing includes a side view of the main body and a detailed view of the base assembly.

**Dimensions:**

- Overall height: 1435
- Height of the main body: 608
- Height of the base assembly:  $h_6$
- Height of the base assembly (dashed line): 70
- Height of the base assembly (dashed line): 25
- Height of the base assembly (dashed line): 95
- Height of the base assembly (dashed line):  $h_3$
- Height of the base assembly (dashed line):  $h_{13}$
- Horizontal distance from the left side to the center of the base assembly:  $l_2$
- Horizontal distance from the left side to the center of the base assembly: 179
- Horizontal distance from the left side to the center of the base assembly:  $y$
- Horizontal distance from the left side to the center of the base assembly:  $l_1$
- Horizontal distance from the center of the base assembly to the right side:  $x$
- Horizontal distance from the center of the base assembly to the right side:  $1$
- Horizontal distance from the center of the base assembly to the right side:  $C$

**Labels:**

- $Q$ : Force or pressure applied to the base assembly.
- $l_1$ ,  $l_2$ ,  $x$ ,  $y$ : Horizontal distances.
- $h_6$ ,  $h_3$ ,  $h_{13}$ : Vertical heights.
- $1$ ,  $C$ : Horizontal distances.



## VDI table

|                  |        |                                             |          |                   |             |
|------------------|--------|---------------------------------------------|----------|-------------------|-------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)      |          | Jungheinrich      |             |
|                  | 1.2    | Manufacturer's type designation             |          | ESE 220           | ESE 320     |
|                  | 1.3    | Drive type                                  |          | electric          |             |
|                  | 1.4    | Operation                                   |          | Seat              |             |
|                  | 1.5    | Load capacity/load                          | Q kg     | 2000              |             |
|                  | 1.6    | Load centre distance                        | c mm     | 600               |             |
|                  | 1.8    | Load distance, centre of drive axle to fork | x mm     | 868               |             |
|                  | 1.9    | Wheelbase                                   | y mm     | 1548              |             |
| Weights          | 2.1.1  | Service weight (incl. battery)              | kg       | 1062              | 1074        |
|                  | 2.2    | Axle load laden front/rear                  | kg       | 1896 / 1142       | 1902 / 1182 |
|                  | 2.3    | Axle load unladen front/rear                | kg       | 258 / 808         | 264 / 816   |
| Wheels/chassis   | 3.1    | Tyres                                       |          | Polyurethane (PU) |             |
|                  | 3.2    | Tyre size, front                            |          | Ø 230 x 78        |             |
|                  | 3.3    | Tyre size, rear                             |          | Ø 85x85           |             |
|                  | 3.4    | Additional wheels                           |          | Ø 140 x 54        |             |
|                  | 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 | 4.4    | Lift (h3)                                   | h3 mm    | 125               |             |
|                  | 4.8    | Seat height/stand height                    | h7 mm    | 1020              |             |
|                  | 4.15   | Height, lowered                             | h13 mm   | 90                |             |
|                  | 4.19   | Total length                                | l1 mm    | 2009              |             |
|                  | 4.20   | Length including fork shank                 | l2 mm    | 859               |             |
|                  | 4.21.1 | total width                                 | b1 mm    | 820               | 930         |
|                  | 4.22   | Fork dimensions                             | s/e/l mm | 60 x 172 x 1150   |             |
|                  | 4.25   | Width across forks                          | b5 mm    | 540               |             |
|                  | 4.32   | Ground clearance centre of wheelbase        | m2 mm    | 25                |             |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)        | Ast mm   | 2259              |             |
|                  | 4.35   | Turning radius                              | Wa mm    | 1739              | 1751        |
| Performance data | 5.1    | Travel speed laden/unladen                  | km/h     | 10 / 12.5         |             |
|                  | 5.2    | Lift speed laden/unladen                    | m/s      | 0.06 / 0.07       |             |
|                  | 5.3    | Lowering speed laden/unladen                | m/s      | 0.06 / 0.05       |             |
|                  | 5.8    | Max. gradeability laden/unladen             | %        | 8 / 13            |             |
|                  | 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     | 2.2      |      |
|                                                                                                                                                                                                   | 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        |      |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle  | kWh/h  | 0.41     | 0.43 |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent according to EN ISO 23308  | kg/h   | 0.22     | 0.23 |
| 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 the width across forks 540 mm, fork length 1,150 mm, raised support arm lift.

- VDI no. 1.8: lowered support arm lift: x + 95 mm.
- VDI no. 1.9: lowered support arm lift: y + 95 mm.
- VDI no. 4.35: lowered support arm lift: Wa + 95 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.



 **JUNGHEINRICH**