



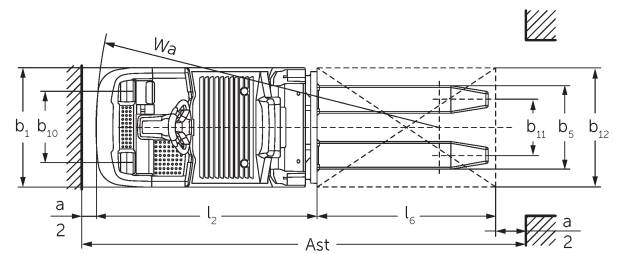
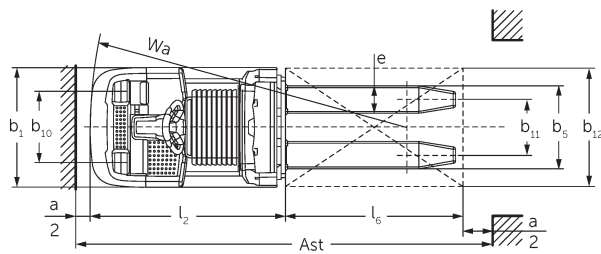
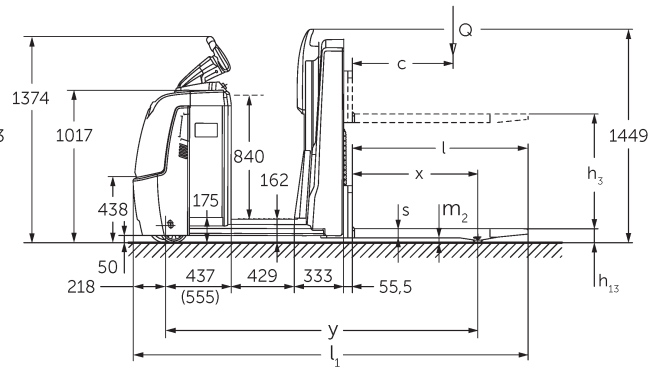
## **Low level order pickers**

### **ECE 310**

Lift height: 750 mm / Load capacity: 1000 kg

Technical drawing of a vehicle seat cross-section. The drawing shows the seat structure, including the backrest, seat cushion, and base. Key dimensions are labeled:

- Overall height: 1374
- Height to the top of the backrest: 1017
- Height to the top of the seat cushion: 438
- Height to the top of the seat base: 175
- Height to the top of the seat backrest: 125
- Height to the top of the seat backrest (dashed line): 1383
- Height to the top of the seat backrest (solid line):  $h_3$
- Height to the top of the seat base:  $h_{13}$
- Horizontal distance from the front edge to the backrest: 218
- Horizontal distance from the front edge to the seat base: 50
- Horizontal distance from the front edge to the seat backrest: 380 (498)
- Horizontal distance from the front edge to the seat base: 415 (465)
- Horizontal distance from the front edge to the seat backrest: 253
- Horizontal distance from the front edge to the seat base: 55,5
- Horizontal distance from the front edge to the seat backrest:  $y$
- Horizontal distance from the front edge to the seat backrest:  $l_1$
- Horizontal distance from the front edge to the seat base:  $l$
- Horizontal distance from the front edge to the seat base:  $x$
- Horizontal distance from the front edge to the seat base:  $s$
- Horizontal distance from the front edge to the seat base:  $m_2$
- Horizontal distance from the front edge to the seat backrest:  $c$
- Force  $Q$  is applied at the top of the backrest.



# VDI table

|                  |        |                                                          |          |                         |                     |
|------------------|--------|----------------------------------------------------------|----------|-------------------------|---------------------|
| Characteristic   | 1.1    | Manufacturer (abbreviated description)                   |          | Jungheinrich            |                     |
|                  | 1.2    | Manufacturer's type designation                          |          | ECE 310                 | ECE 310 HP          |
|                  | 1.3    | Drive type                                               |          | electric                |                     |
|                  | 1.4    | Operation                                                |          | Order pickers           |                     |
|                  | 1.5    | Load capacity/load                                       | Q kg     | 1000                    |                     |
|                  | 1.6    | Load centre distance                                     | c mm     | 600                     |                     |
|                  | 1.8    | Load distance, centre of drive axle to fork              | x mm     | 821                     |                     |
|                  | 1.9    | Wheelbase                                                | y mm     | 1925                    | 2075                |
| Weights          | 2.1.1  | Service weight (incl. battery)                           | kg       | 1084                    | 1274                |
|                  | 2.2    | Axle load laden front/rear                               | kg       | 839 / 1245              | 869 / 1405          |
|                  | 2.3    | Axle load unladen front/rear                             | kg       | 772 / 311               | 862 / 411           |
| Wheels/chassis   | 3.1    | Tyres                                                    |          | Polyurethane (PU)       |                     |
|                  | 3.2    | Tyre size, front                                         |          | Ø 230 x 78              |                     |
|                  | 3.3    | Tyre size, rear                                          |          | Ø 75 x 95               |                     |
|                  | 3.4    | Additional wheels                                        |          | Ø 180 x 65              |                     |
|                  | 3.5    | Wheels, number front/back (x=driven)                     |          | 1+1x/2                  |                     |
|                  | 3.6    | Tread width, front                                       | b10 mm   | 481                     |                     |
|                  | 3.7    | Tread width, rear                                        | b11 mm   | 339                     |                     |
|                  | 3.7.1  | 2. Tread width, rear                                     | mm       | 379                     |                     |
| Basic dimensions | 4.4    | Lift (h3)                                                | h3 mm    | 750                     |                     |
|                  | 4.9    | Height of tiller handle in drive position min./max.      | h14 mm   | 1374 / 1418             |                     |
|                  | 4.14   | Stand height, elevated                                   | h12 mm   | -                       | 1002                |
|                  | 4.15   | Height, lowered                                          | h13 mm   | 90                      |                     |
|                  | 4.19   | Total length                                             | l1 mm    | 2471                    | 2621                |
|                  | 4.20   | Length including fork shank                              | l2 mm    | 1321                    | 1471                |
|                  | 4.21.1 | total width                                              | b1 mm    | 810                     |                     |
|                  | 4.22   | Fork dimensions                                          | s/e/l mm | 56 x 185 x 1150         |                     |
|                  | 4.25   | Width across forks                                       | b5 mm    | 560                     |                     |
|                  | 4.32   | Ground clearance centre of wheelbase                     | m2 mm    | 30                      |                     |
|                  | 4.34.2 | Aisle width (pallet 800x1200 length)                     | Ast mm   | 2721                    | 2871                |
|                  | 4.35   | Turning radius                                           | Wa mm    | 2142                    | 2292                |
| Performance data | 5.1    | Travel speed laden/unladen (Efficiency   drivePLUS)      | km/h     | 11.5 / 12.5   11.5 / 14 | 11 / 12.5   11 / 14 |
|                  | 5.2    | Lift speed laden/unladen                                 | m/s      | 0.17 / 0.33             |                     |
|                  | 5.3    | Lowering speed laden/unladen                             | m/s      | 0.19 / 0.19             |                     |
|                  | 5.8    | Max. gradeability laden/unladen (Efficiency   drivePLUS) | %        | 6 / 15   6 / 15         |                     |
|                  | 5.10   | Service brake                                            |          | generative              |                     |
|                  |        |                                                          |          |                         |                     |

|                                                                                                                                                                                                   |       |                                                              |        |             |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|--------------------------------------------------------------|--------|-------------|-------------|
| Electric 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     | 1.5         |             |
|                                                                                                                                                                                                   | 6.4   | Battery voltage/nominal capacity                             | V / Ah | 24 / 465    |             |
|                                                                                                                                                                                                   | 6.5   | Battery weight                                               | kg     | 370         |             |
|                                                                                                                                                                                                   | 6.6.1 | Energy consumption according to EN cycle (Efficiency   PLUS) | kWh/h  | 0.4   0.47  |             |
|                                                                                                                                                                                                   | 6.6.2 | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           | kg/h   | 0.2   0.3   |             |
|                                                                                                                                                                                                   | 6.7   | Throughput (Efficiency   PLUS)                               | t/h    | 65   68     | 64   67     |
|                                                                                                                                                                                                   | 6.8.1 | Energy consumption with max. throughput (Efficiency   PLUS)  | kWh/h  | 1.27   1.47 | 1.28   1.47 |
| Other                                                                                                                                                                                             | 8.1   | Type of drive control                                        |        | AC          |             |
|                                                                                                                                                                                                   | 10.5  | Steering version                                             |        | electric    |             |
|                                                                                                                                                                                                   |       |                                                              |        |             |             |
|                                                                                                                                                                                                   | 10.7  | Sound pressure level according to EN12053                    | dB (A) | 62          |             |
| - 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. |       |                                                              |        |             |             |

Values for L battery compartment; fork length 1,150 mm.

- VDI no. 1.9: with XL or XL (ERE) battery compartment: y + 118 mm; with extended stand-on platform: y + 50 mm.
- VDI no. 4.14: ECE HP: h12 see diagram, dimension 840 mm + 162 mm = 1,002 mm.
- VDI no. 4.19: with XL or XL (ERE) battery compartment: l1 + 118 mm; with extended stand-on platform: l1 + 50 mm.
- VDI no. 4.20: with XL or XL (ERE) battery compartment: l2 + 118 mm; with extended stand-on platform: l2 + 50 mm.
- VDI no. 4.34.2: with XL or XL (ERE) battery compartment: aisle width + 118 mm; with extended stand-on platform: aisle width + 50 mm; diagonal as per VDI: aisle width + 94 mm.
- VDI no. 4.35: with XL or XL (ERE) battery compartment: Wa + 118 mm; with extended stand-on platform: Wa + 50 mm.
- VDI no. 6.2: with S3 10%.
- VDI no. 6.4: with XL battery compartment: 24 V / 620 Ah.
- VDI no. 6.5: with XL battery compartment: 460 kg.