

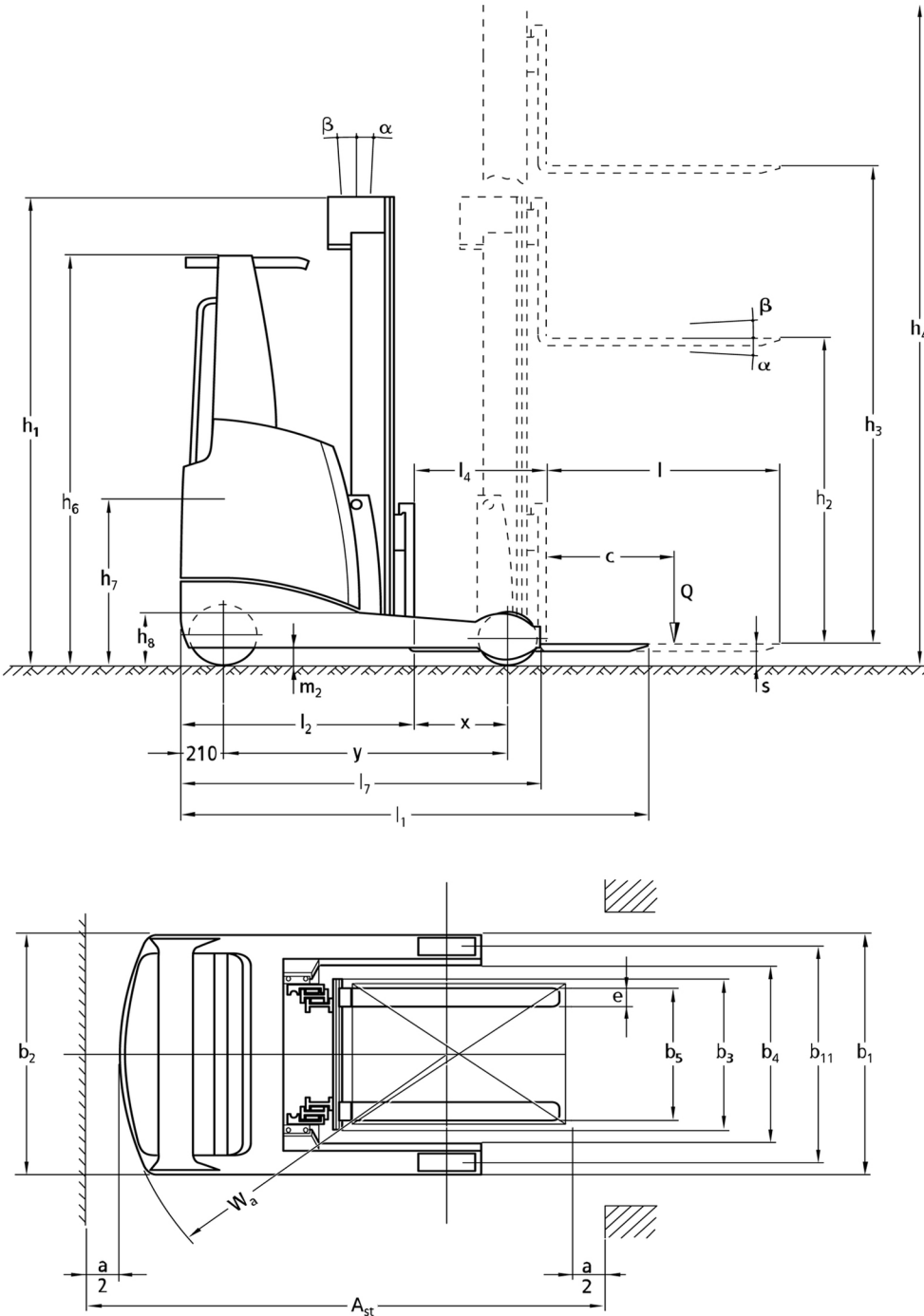


## **Electric reach truck**

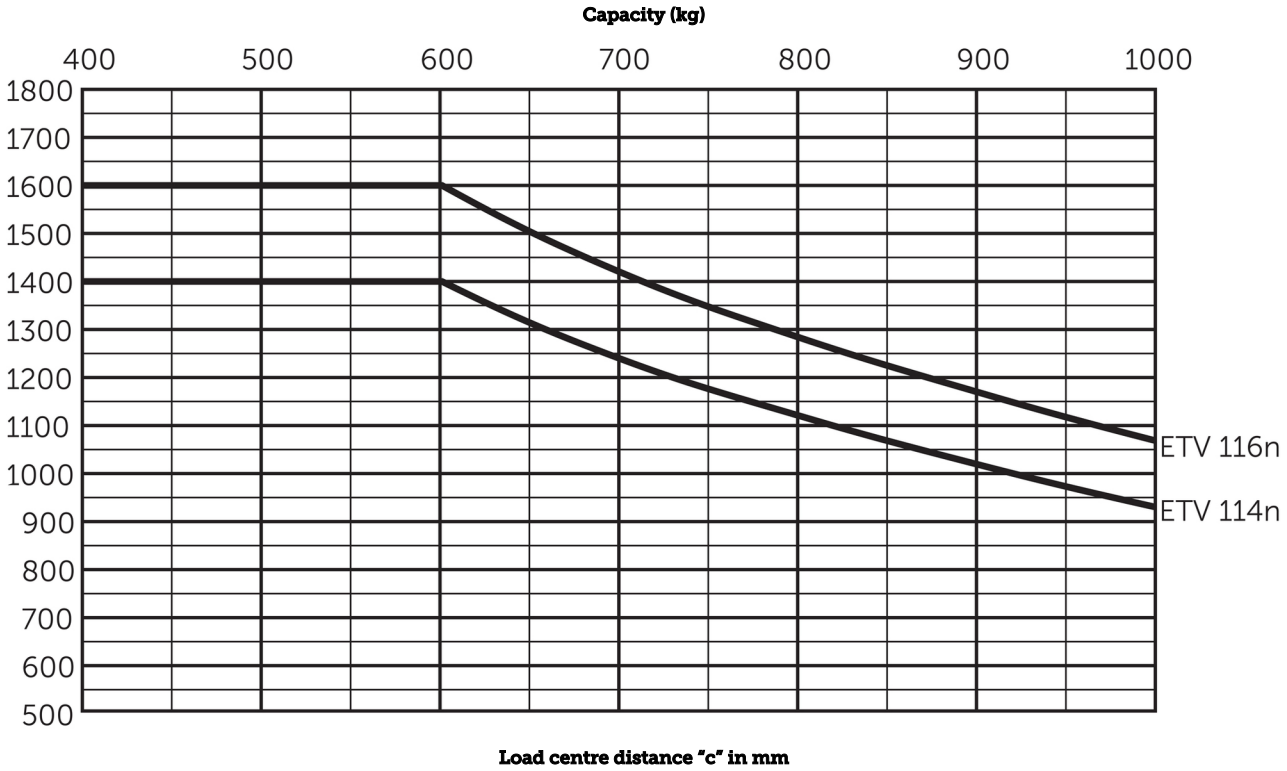
**ETV 114n / 116n / 118n / 120n**

**Lift height: 1800-5300 mm / Load capacity: 1400-2000 kg**

ETV 114n / 116n / 118n / 120n



# ETV 114n / 116n / 118n / 120n



# ETV 114n / 116n / 118n / 120n

| ETV 114n, ETV 116n | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
|--------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|----------------------------------------|
| Triplex mast DZ    | 5000 mm   | 2200 mm                    | 1700 mm        | 5590 mm                   | 1 / 5 °                       |                                        |
|                    | 5000 mm   | 2200 mm                    | 1700 mm        | 5590 mm                   |                               | 2 / 5 °                                |
|                    | 5300 mm   | 2300 mm                    | 1800 mm        | 5890 mm                   | 1 / 5 °                       |                                        |
|                    | 5300 mm   | 2300 mm                    | 1800 mm        | 5890 mm                   |                               | 2 / 5 °                                |
|                    | 5900 mm   | 2500 mm                    | 2000 mm        | 6490 mm                   | 1 / 3 °                       |                                        |
|                    | 5900 mm   | 2500 mm                    | 2000 mm        | 6490 mm                   |                               | 2 / 5 °                                |
|                    | 6200 mm   | 2600 mm                    | 2100 mm        | 6790 mm                   | 1 / 3 °                       |                                        |
|                    | 6200 mm   | 2600 mm                    | 2100 mm        | 6790 mm                   |                               | 2 / 5 °                                |
|                    | 6500 mm   | 2700 mm                    | 2200 mm        | 7090 mm                   | 0,5 / 2 °                     |                                        |
|                    | 6500 mm   | 2700 mm                    | 2200 mm        | 7090 mm                   |                               | 2 / 5 °                                |
|                    | 6800 mm   | 2800 mm                    | 2300 mm        | 7390 mm                   | 0,5 / 2 °                     |                                        |
|                    | 6800 mm   | 2800 mm                    | 2300 mm        | 7390 mm                   |                               | 2 / 5 °                                |
|                    | 7100 mm   | 2900 mm                    | 2400 mm        | 7690 mm                   | 0,5 / 2 °                     |                                        |
|                    | 7100 mm   | 2900 mm                    | 2400 mm        | 7690 mm                   |                               | 2 / 5 °                                |
|                    | 7700 mm   | 3100 mm                    | 2600 mm        | 8290 mm                   | 0,5 / 1 °                     |                                        |
|                    | 7700 mm   | 3100 mm                    | 2600 mm        | 8290 mm                   |                               | 2 / 5 °                                |
|                    | 8420 mm   | 3340 mm                    | 2840 mm        | 9010 mm                   | 0,5 / 1 °                     |                                        |
|                    | 8420 mm   | 3340 mm                    | 2840 mm        | 9010 mm                   |                               | 2 / 5 °                                |
|                    | 9020 mm   | 3540 mm                    | 3040 mm        | 9610 mm                   | 0,5 / 1 °                     |                                        |
|                    | 9020 mm   | 3540 mm                    | 3040 mm        | 9610 mm                   |                               | 2 / 5 °                                |
| ETV 116n, ETV 120n | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
| Triplex mast DZ    | 9110 mm   | 3670 mm                    | 3070 mm        | 9700 mm                   |                               | 2 / 5 °                                |
|                    | 9620 mm   | 3840 mm                    | 3240 mm        | 10210 mm                  |                               | 2 / 5 °                                |
|                    | 9950 mm   | 3950 mm                    | 3350 mm        | 10540 mm                  |                               | 2 / 5 °                                |
|                    | 10220 mm  | 4040 mm                    | 3440 mm        | 10810 mm                  |                               | 2 / 5 °                                |
|                    | 10520 mm  | 4140 mm                    | 3540 mm        | 11110 mm                  |                               | 2 / 5 °                                |
|                    | 10700 mm  | 4200 mm                    | 3600 mm        | 11290 mm                  |                               | 2 / 5 °                                |
| ETV 118n, ETV 120n | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
| Triplex mast DZ    | 5000 mm   | 2300 mm                    | 1700 mm        | 5590 mm                   | 1 / 5 °                       |                                        |
|                    | 5000 mm   | 2300 mm                    | 1700 mm        | 5590 mm                   |                               | 2 / 5 °                                |
|                    | 5300 mm   | 2400 mm                    | 1800 mm        | 5890 mm                   | 1 / 5 °                       |                                        |
|                    | 5300 mm   | 2400 mm                    | 1800 mm        | 5890 mm                   |                               | 2 / 5 °                                |
|                    | 5900 mm   | 2600 mm                    | 2000 mm        | 6490 mm                   | 1 / 3 °                       |                                        |
|                    | 5900 mm   | 2600 mm                    | 2000 mm        | 6490 mm                   |                               | 2 / 5 °                                |
|                    | 6200 mm   | 2700 mm                    | 2100 mm        | 6790 mm                   | 1 / 3 °                       |                                        |
|                    | 6200 mm   | 2700 mm                    | 2100 mm        | 6790 mm                   |                               | 2 / 5 °                                |
|                    | 6500 mm   | 2800 mm                    | 2200 mm        | 7090 mm                   | 0,5 / 2 °                     |                                        |
|                    | 6500 mm   | 2800 mm                    | 2200 mm        | 7090 mm                   |                               | 2 / 5 °                                |
|                    | 6800 mm   | 2900 mm                    | 2300 mm        | 7390 mm                   | 0,5 / 2 °                     |                                        |
|                    | 6800 mm   | 2900 mm                    | 2300 mm        | 7390 mm                   |                               | 2 / 5 °                                |
|                    | 7100 mm   | 3000 mm                    | 2400 mm        | 7690 mm                   | 0,5 / 2 °                     |                                        |
|                    | 7100 mm   | 3000 mm                    | 2400 mm        | 7690 mm                   |                               | 2 / 5 °                                |
|                    | 7700 mm   | 3200 mm                    | 2600 mm        | 8290 mm                   | 0,5 / 1 °                     |                                        |
|                    | 7700 mm   | 3200 mm                    | 2600 mm        | 8290 mm                   |                               | 2 / 5 °                                |
|                    | 8420 mm   | 3440 mm                    | 2840 mm        | 9010 mm                   | 0,5 / 1 °                     |                                        |

|                 |                  |                                           |                           |                                          |                                               |                                                        |
|-----------------|------------------|-------------------------------------------|---------------------------|------------------------------------------|-----------------------------------------------|--------------------------------------------------------|
|                 | 8420 mm          | 3440 mm                                   | 2840 mm                   | 9010 mm                                  | 2 / 5 °                                       |                                                        |
|                 | 9020 mm          | 3640 mm                                   | 3040 mm                   | 9610 mm                                  | 0,5 / 1 °                                     |                                                        |
|                 | 9020 mm          | 3640 mm                                   | 3040 mm                   | 9610 mm                                  | 2 / 5 °                                       |                                                        |
| <b>ETV 120n</b> | <b>Lift (h3)</b> | <b>Retracted<br/>mast height<br/>(h1)</b> | <b>Free lift<br/>(h2)</b> | <b>Extended<br/>mast height<br/>(h4)</b> | <b>Forward/<br/>backward tilt of<br/>mast</b> | <b>Forward/<br/>backward tilt of<br/>fork carriage</b> |
| Triplex mast DZ | 10880 mm         | 4260 mm                                   | 3660 mm                   | 11470 mm                                 | 2 / 5 °                                       |                                                        |
|                 | 11120 mm         | 4340 mm                                   | 3740 mm                   | 11710 mm                                 | 2 / 5 °                                       |                                                        |
|                 | 11510 mm         | 4470 mm                                   | 3870 mm                   | 12100 mm                                 | 2 / 5 °                                       |                                                        |

# VDI table

Stand-on: 10/2020

| Characteristic           | 1.1    | Manufacturer (abbreviated description)                     |                    | Jungheinrich    |             |             |             |
|--------------------------|--------|------------------------------------------------------------|--------------------|-----------------|-------------|-------------|-------------|
|                          | 1.2    | Manufacturer's type designation                            |                    | ETV 114n        | ETV 116n    | ETV 118n    | ETV 120n    |
|                          | 1.3    | Drive                                                      |                    | Electric        |             |             |             |
|                          | 1.4    | Operation                                                  |                    | Seat            |             |             |             |
|                          | 1.5    | Load capacity/load                                         | Q kg               | 1400            | 1600        | 1800        | 2000        |
|                          | 1.6    | Load centre distance                                       | c mm               | 600             |             |             |             |
|                          | 1.8    | Load distance, centre of drive axle to fork                | x mm               | 345             | 395         | 466         |             |
|                          | 1.8.1  | Load distance, centre of drive axle to fork, mast extended | mm                 | 205             |             |             |             |
|                          | 1.9    | Wheelbase                                                  | y mm               | 1410            | 1460        | 1560        |             |
| Weights                  | 2.1.1  | Service weight (incl. battery)                             | kg                 | 2950            | 3070        | 3500        | 3570        |
|                          | 2.3    | Axle load unladen front/rear                               | kg                 | 1770 / 1180     | 1842 / 1228 | 1932 / 1568 | 1984 / 1586 |
|                          | 2.4    | Axle load fork forward laden front/rear                    | kg                 | 522 / 3828      | 560 / 4110  | 1009 / 4291 | 958 / 4612  |
|                          | 2.5    | Axle load fork back laden front/rear                       | kg                 | 1566 / 2784     | 1681 / 2989 | 1765 / 3535 | 1798 / 3772 |
| Wheels/suspension system | 3.1    | Tyres                                                      |                    | PU              |             |             |             |
|                          | 3.2    | Tyre size, front                                           |                    | Ø 343 x 114     |             |             |             |
|                          | 3.3    | Tyre size, rear                                            |                    | Ø 285 x 100     |             |             |             |
|                          | 3.5    | Wheels, number front/back (x=driven)                       |                    | 1x / 2          |             |             |             |
|                          | 3.7    | Tread width, rear                                          | b <sub>11</sub> mm | 1136            |             |             |             |
| Basic dimensions         | 4.2    | Retracted mast height (h1)                                 | h <sub>1</sub> mm  | 2300            |             | 2400        |             |
|                          | 4.3    | Free lift (h2)                                             | h <sub>2</sub> mm  | 1800            |             |             |             |
|                          | 4.4    | Lift (h3)                                                  | h <sub>3</sub> mm  | 5300            |             |             |             |
|                          | 4.5    | Extended mast height (h4)                                  | h <sub>4</sub> mm  | 6300            |             | 6400        |             |
|                          | 4.7    | Height of overhead guard (cab)                             | h <sub>6</sub> mm  | 2265            |             |             |             |
|                          | 4.8    | Seat height/stand height                                   | h <sub>7</sub> mm  | 950             |             |             |             |
|                          | 4.10   | Height of support arms                                     | h <sub>8</sub> mm  | 285             |             |             |             |
|                          | 4.19   | Overall length                                             | l <sub>1</sub> mm  | 2346            | 2418        | 2518        |             |
|                          | 4.20   | Length including fork shank                                | l <sub>2</sub> mm  | 1196            | 1268        |             |             |
|                          | 4.21.1 | Overall width                                              | b <sub>1</sub> mm  | 1270            |             |             |             |
|                          | 4.21.2 | Overall width                                              | b <sub>2</sub> mm  | 1270            |             |             |             |
|                          | 4.22   | Fork dimensions                                            | s/<br>e/l mm       | 40 / 120 / 1150 |             |             |             |
|                          | 4.23   | Fork carriage connection class                             |                    | 2B              |             |             |             |
|                          | 4.24   | Fork carriage width                                        | b <sub>3</sub> mm  | 800             |             |             |             |
|                          | 4.25   | Width across forks                                         | b <sub>5</sub> mm  | 335             |             |             |             |
|                          | 4.26   | Width between support arms/loading areas                   | b <sub>4</sub> mm  | 932             |             |             |             |
|                          | 4.28   | Reach distance                                             | mm                 | 544             | 594         | 664         |             |
|                          | 4.32   | Ground clearance centre of wheelbase                       | m <sub>2</sub> mm  | 80              |             |             |             |
|                          | 4.34   | Aisle width (pallet 1000x1200 sideways)                    | Ast mm             | 2701            | 2715        | 2766        |             |
|                          | 4.34.1 | Aisle width (pallet 800x1200 length)                       | Ast mm             | 2757            | 2762        | 2799        |             |
|                          | 4.35   | Turning radius                                             | W <sub>a</sub> mm  | 1613            | 1663        | 1763        |             |
|                          | 4.37   | Length over the support arms                               | L <sub>7</sub> mm  | 1792            | 1842        | 1942        |             |
| Performance data         | 5.1    | Travel speed laden/unladen                                 | km/h               | 10 / 10         |             |             |             |
|                          | 5.2    | Lift speed laden/unladen                                   | m/s                | 0.34 / 0.65     | 0.32 / 0.6  | 0.32 / 0.54 |             |
|                          | 5.3    | Lowering speed laden/unladen                               | m/s                | 0.5 / 0.4       | 0.48 / 0.4  | 0.45 / 0.38 | 0.44 / 0.38 |
|                          | 5.4    | Reach speed laden/unladen                                  | m/s                | 0.2 / 0.2       |             |             |             |
|                          | 5.7    | Gradeability laden/unladen                                 | %                  | 7 / 10          |             |             |             |

|                     |       |                                            |        |           |           |           |           |
|---------------------|-------|--------------------------------------------|--------|-----------|-----------|-----------|-----------|
|                     | 5.8   | Max. gradeability laden/unladen            | %      | 10 / 15   |           |           |           |
|                     | 5.9   | Acceleration time laden/unladen            | s      | 5.1 / 4.8 | 5.2 / 4.8 | 5.3 / 4.8 | 5.4 / 4.8 |
|                     | 5.10  | Service brake                              |        | electric  |           |           |           |
| E-motor/Electronics | 6.1   | Drive motor, performance S2 60 min         | kW     | 6.9       |           |           |           |
|                     | 6.2   | Lift motor, performance with S3            | kW     | 10        |           |           |           |
|                     | 6.3   | Battery according to DIN 43531/35/36       |        | C         |           |           |           |
|                     | 6.4   | Battery voltage/nominal capacity           | V / Ah | 48 / 465  |           | 48 / 620  |           |
|                     | 6.5   | Battery weight                             | kg     | 746       |           | 995       |           |
|                     | 6.6   | Energy consumption according to VDI cycle  | kWh/h  | 3.8       | 4.1       | 4.4       | 4.7       |
|                     | 6.6.1 | Energy consumption according to EN cycle   | kWh/h  | 3.8       | 4.1       | 4.4       | 4.7       |
|                     | 6.6.2 | CO2 equivalent as per EN 16796             | kg/h   | 2.1       | 2.2       | 2.4       | 2.5       |
| Other               | 8.1   | Type of drive control                      |        | Mosfet/AC |           |           |           |
|                     | 10.1  | Operating pressure for attachment          | bar    | 150       |           |           |           |
|                     | 10.2  | Oil flow for attachments                   | l/min  | 20        |           |           |           |
|                     | 10.7  | Sound level as per EN12053, operator's ear | 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 German production facilities in  
Norderstedt, Moosburg and Landsberg  
are certified.

ISO 9001  
ISO 14001

 **JUNGHEINRICH**