

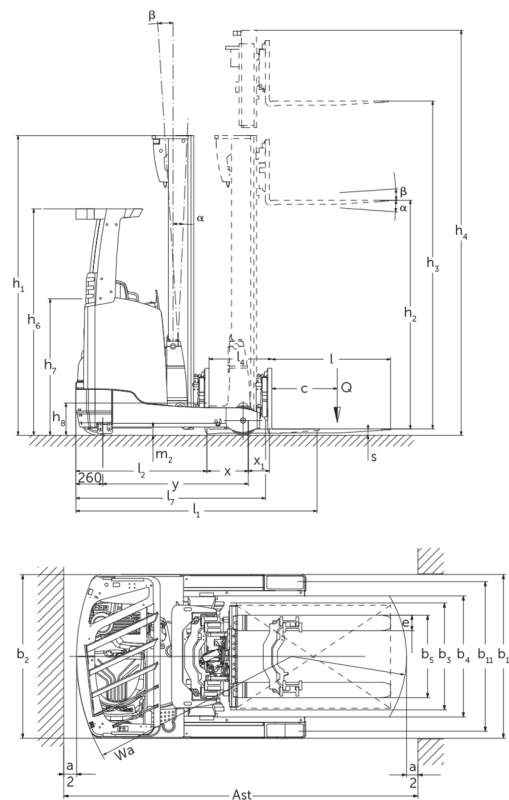


## **Electric reach truck**

### **ETV/ETM 210 - 216**

Lift height: 4550-10700 mm / Load capacity: 1000-1600 kg

ETV/ETM 210 - 216



## ETV/ETM 210 - 216

| ETM 214, ETV 214, ETM 216, ETV 216                    | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
|-------------------------------------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|----------------------------------------|
| Mast tilt / Triplex mast DZ / cold-formed             | 6500 mm   | 2700 mm                    | 2046 mm        | 7154 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 6800 mm   | 2800 mm                    | 2146 mm        | 7454 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 7100 mm   | 2900 mm                    | 2246 mm        | 7754 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 7310 mm   | 2970 mm                    | 2316 mm        | 7964 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 7400 mm   | 3000 mm                    | 2346 mm        | 8054 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 7700 mm   | 3100 mm                    | 2446 mm        | 8354 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 8000 mm   | 3200 mm                    | 2546 mm        | 8654 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 8300 mm   | 3300 mm                    | 2646 mm        | 8954 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 8420 mm   | 3340 mm                    | 2686 mm        | 9074 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 8720 mm   | 3440 mm                    | 2786 mm        | 9374 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 9020 mm   | 3540 mm                    | 2886 mm        | 9674 mm                   | 0.5 / 1 °                     |                                        |
| ETV 210 , ETV 212, ETM 214, ETV 214, ETM 216, ETV 216 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
| Mast tilt / Triplex mast DZ / hot-rolled              | 4550 mm   | 2050 mm                    | 1396 mm        | 5204 mm                   | 1 / 5 °                       |                                        |
|                                                       | 5000 mm   | 2200 mm                    | 1546 mm        | 5654 mm                   | 1 / 5 °                       |                                        |
|                                                       | 5240 mm   | 2280 mm                    | 1626 mm        | 5894 mm                   | 1 / 5 °                       |                                        |
|                                                       | 5300 mm   | 2300 mm                    | 1646 mm        | 5954 mm                   | 1 / 5 °                       |                                        |
|                                                       | 5450 mm   | 2350 mm                    | 1696 mm        | 6104 mm                   | 1 / 3 °                       |                                        |
|                                                       | 5600 mm   | 2400 mm                    | 1746 mm        | 6254 mm                   | 1 / 3 °                       |                                        |
|                                                       | 5720 mm   | 2440 mm                    | 1786 mm        | 6374 mm                   | 1 / 3 °                       |                                        |
|                                                       | 5900 mm   | 2500 mm                    | 1846 mm        | 6554 mm                   | 1 / 3 °                       |                                        |
|                                                       | 6200 mm   | 2600 mm                    | 1946 mm        | 6854 mm                   | 1 / 3 °                       |                                        |
|                                                       | 6500 mm   | 2700 mm                    | 2046 mm        | 7154 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 6800 mm   | 2800 mm                    | 2146 mm        | 7454 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 7100 mm   | 2900 mm                    | 2246 mm        | 7754 mm                   | 0.5 / 2 °                     |                                        |
|                                                       | 7310 mm   | 2970 mm                    | 2316 mm        | 7964 mm                   | 0.5 / 1 °                     |                                        |
|                                                       | 7400 mm   | 3000 mm                    | 2346 mm        | 8054 mm                   | 0.5 / 1 °                     |                                        |

| ETV 214, ETV 216                          | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast | Forward/backward tilt of fork carriage |
|-------------------------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|----------------------------------------|
| Fork tilt / Triplex mast DZ / cold-formed | 5000 mm   | 2200 mm                    | 1546 mm        | 5654 mm                   |                               | 2 / 5 °                                |
|                                           | 5300 mm   | 2300 mm                    | 1646 mm        | 5954 mm                   |                               | 2 / 5 °                                |
|                                           | 5600 mm   | 2400 mm                    | 1746 mm        | 6254 mm                   |                               | 2 / 5 °                                |
|                                           | 5900 mm   | 2500 mm                    | 1846 mm        | 6554 mm                   |                               | 2 / 5 °                                |
|                                           | 6200 mm   | 2600 mm                    | 1946 mm        | 6854 mm                   |                               | 2 / 5 °                                |
|                                           | 6500 mm   | 2700 mm                    | 2046 mm        | 7154 mm                   |                               | 2 / 5 °                                |
|                                           | 6800 mm   | 2800 mm                    | 2146 mm        | 7454 mm                   |                               | 2 / 5 °                                |
|                                           | 7100 mm   | 2900 mm                    | 2246 mm        | 7754 mm                   |                               | 2 / 5 °                                |
|                                           | 7400 mm   | 3000 mm                    | 2346 mm        | 8054 mm                   |                               | 2 / 5 °                                |
|                                           | 7700 mm   | 3100 mm                    | 2446 mm        | 8354 mm                   |                               | 2 / 5 °                                |
|                                           | 8000 mm   | 3200 mm                    | 2546 mm        | 8654 mm                   |                               | 2 / 5 °                                |
|                                           | 8300 mm   | 3300 mm                    | 2646 mm        | 8954 mm                   |                               | 2 / 5 °                                |
|                                           | 8420 mm   | 3340 mm                    | 2686 mm        | 9074 mm                   |                               | 2 / 5 °                                |
|                                           | 8720 mm   | 3440 mm                    | 2786 mm        | 9374 mm                   |                               | 2 / 5 °                                |
|                                           | 9020 mm   | 3540 mm                    | 2886 mm        | 9674 mm                   |                               | 2 / 5 °                                |
|                                           | 9410 mm   | 3670 mm                    | 3016 mm        | 10064 mm                  |                               | 2 / 5 °                                |
|                                           | 9920 mm   | 3840 mm                    | 3186 mm        | 10574 mm                  |                               | 2 / 5 °                                |
|                                           | 10250 mm  | 3950 mm                    | 3296 mm        | 10904 mm                  |                               | 2 / 5 °                                |
|                                           | 10520 mm  | 4040 mm                    | 3386 mm        | 11174 mm                  |                               | 2 / 5 °                                |
|                                           | 10700 mm  | 4100 mm                    | 3446 mm        | 11354 mm                  |                               | 2 / 5 °                                |

## VDI table

|                          |        |                                                            |           |    |                   |             |                 |             |             |             |
|--------------------------|--------|------------------------------------------------------------|-----------|----|-------------------|-------------|-----------------|-------------|-------------|-------------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)                     |           |    | Jungheinrich      |             |                 |             |             |             |
|                          | 1.2    | Manufacturer's type designation                            |           |    | ETV 210           | ETV 212     | ETM / V 2       |             |             |             |
|                          | 1.3    | Drive                                                      |           |    | Electric          |             |                 |             |             |             |
|                          | 1.4    | Operation                                                  |           |    | Sideways-seated   |             |                 |             |             |             |
|                          | 1.5    | Load capacity/load                                         | Q         | kg | 1000              | 1200        | 1400            |             | 1600        |             |
|                          | 1.6    | Load centre distance                                       | c         | mm | 600               |             |                 |             |             |             |
|                          | 1.8    | Load distance, centre of drive axle to fork                | x         | mm | 315               | 400         | 353             | 423         | 403         | 413         |
|                          | 1.8.1  | Load distance, centre of drive axle to fork, mast extended |           | mm | 170               |             | 205             |             |             |             |
|                          | 1.9    | Wheelbase                                                  | y         | mm | 1300              | 1385        | 1410            |             | 1460        |             |
| Weights                  | 2.1.1  | Service weight (incl. battery)                             | kg        |    | 2560              | 2580        | 2975            | 3000        | 3110        | 3136        |
|                          | 2.3    | Axle load unladen front/rear                               | kg        |    | 1587 / 973        | 1587 / 993  | 1785 / 1190     | 1830 / 1170 | 1835 / 1275 | 1882 / 1254 |
|                          | 2.4    | Axle load fork forward laden front/rear                    | kg        |    | 634 / 2926        | 516 / 3264  | 481 / 3894      | 572 / 3828  | 518 / 4192  | 521 / 4215  |
|                          | 2.5    | Axle load fork back laden front/rear                       | kg        |    | 1282 / 2278       | 1361 / 2419 | 1531 / 2844     | 1628 / 2772 | 1649 / 3061 | 1658 / 3078 |
| Wheels/suspension system | 3.1    | Tyres                                                      |           |    | Polyurethane (PU) |             |                 |             |             |             |
|                          | 3.2    | Tyre size, front                                           |           |    | Ø 343 x 114       |             |                 |             |             |             |
|                          | 3.3    | Tyre size, rear                                            |           |    | Ø 230 x 85        |             | Ø 285 x 100     |             |             |             |
|                          | 3.5    | Wheels, number front/back (x=driven)                       |           |    | 1x / 2            |             |                 |             |             |             |
|                          | 3.7    | Tread width, rear                                          | b11       | mm | 993               |             | 986             | 1136        | 986         | 1136        |
| Basic dimensions         | 4.1    | Forward/backward tilt of mast                              | a/β       | °  | 1 / 3             |             |                 |             |             |             |
|                          | 4.2    | Retracted mast height (h1)                                 | h1        | mm | 2300              |             | 2400            |             |             |             |
|                          | 4.3    | Free lift (h2)                                             | h2        | mm | 1646              |             | 1746            |             |             |             |
|                          | 4.4    | Lift (h3)                                                  | h3        | mm | 5300              |             | 5600            |             |             |             |
|                          | 4.5    | Extended mast height (h4)                                  | h4        | mm | 5954              |             | 6254            |             |             |             |
|                          | 4.7    | Height of overhead guard (cab)                             | h6        | mm | 2190              |             |                 |             |             |             |
|                          | 4.8    | Seat height/stand height                                   | h7        | mm | 1057              |             |                 |             |             |             |
|                          | 4.10   | Height of support arms                                     | h8        | mm | 265               |             | 285             |             |             |             |
|                          | 4.19   | total length                                               | l1        | mm | 2346              |             | 2418            | 2348        | 2418        | 2408        |
|                          | 4.20   | Length including fork shank                                | l2        | mm | 1196              |             | 1268            | 1198        | 1268        | 1258        |
|                          | 4.21.1 | total width                                                | b1        | mm | 1120              |             |                 | 1270        | 1120        | 1270        |
|                          | 4.21.2 | total width                                                | b2        | mm | 1120              |             |                 | 1270        | 1120        | 1270        |
|                          | 4.22   | Fork dimensions                                            | s/<br>e/l | mm | 40 x 80 x 1150    |             | 40 x 120 x 1150 |             |             |             |
|                          | 4.23   | Fork carriage connection class                             |           |    | 2B                |             |                 |             |             |             |
|                          | 4.24   | Fork carriage width                                        | b3        | mm | 800               |             | 830             |             |             |             |
|                          | 4.25   | Width across forks                                         | b5        | mm | 296               |             | 335             |             |             |             |
|                          | 4.25.1 | Width across forks (min./max.)                             | b5        | mm | 296 / 705         |             | 335 / 560       | 335 / 705   | 335 / 560   | 335 / 705   |
|                          | 4.26   | Width between support arms/loading areas                   | b4        | mm | 900               |             | 780             | 940         | 780         | 940         |
|                          | 4.28   | Reach distance                                             |           | mm | 485               | 570         | 558             | 628         | 608         | 618         |

|                                                                                                                                                                                                   |        |                                                              |     |        |                       |                       |                           |                |                         |                |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------|-----|--------|-----------------------|-----------------------|---------------------------|----------------|-------------------------|----------------|
|                                                                                                                                                                                                   | 4.32   | Ground clearance centre of wheelbase                         | m2  | mm     | 80                    |                       |                           |                |                         |                |
|                                                                                                                                                                                                   | 4.34.1 | Aisle width (pallet 1000x1200 sideways)                      | Ast | mm     | 2626                  | 2644                  | 2702                      | 2652           | 2716                    | 2709           |
|                                                                                                                                                                                                   | 4.34.2 | Aisle width (pallet 800x1200 length)                         | Ast | mm     | 2686                  | 2689                  | 2757                      | 2694           | 2762                    | 2753           |
|                                                                                                                                                                                                   | 4.35   | Turning radius                                               | Wa  | mm     | 1515                  | 1595                  | 1620                      |                | 1670                    |                |
|                                                                                                                                                                                                   | 4.37   | Length over the support arms                                 | L7  | mm     | 1640                  | 1725                  | 1780                      |                | 1830                    |                |
| Performance data                                                                                                                                                                                  | 5.1    | Travel speed laden/unladen (Efficiency   drivePLUS)          |     | km/h   | 11 / 11   - / -       |                       | 11 / 11   14 / 14         |                |                         |                |
|                                                                                                                                                                                                   | 5.2    | Lift speed laden/unladen (Efficiency   liftPLUS)             |     | m/s    | 0.48 / 0.7<br>  - / - | 0.43 / 0.7<br>  - / - | 0.38 / 0.7   0.51 / 0.7   |                | 0.35 / 0.7   0.48 / 0.7 |                |
|                                                                                                                                                                                                   | 5.3    | Lowering speed laden/unladen (Efficiency   liftPLUS)         |     | m/s    | 0.5 / 0.5   - / -     |                       | 0.55 / 0.55   0.55 / 0.55 |                |                         |                |
|                                                                                                                                                                                                   | 5.4    | Reach speed laden/unladen (Efficiency   liftPLUS)            |     | m/s    | 0.2 / 0.2   - / -     |                       | 0.18 / 0.18   0.22 / 0.22 |                |                         |                |
|                                                                                                                                                                                                   | 5.7    | Gradeability laden/unladen (Efficiency   drivePLUS)          |     | %      | 7 / 10   - / -        |                       | 9 / 13   9 / 13           |                | 8 / 12   8 / 12         |                |
|                                                                                                                                                                                                   | 5.8    | Max. gradeability laden/unladen (Efficiency   drivePLUS)     |     | %      | 10 / 15   - / -       |                       | 10 / 15   10 / 15         |                |                         |                |
|                                                                                                                                                                                                   | 5.9    | Acceleration time laden/unladen (Efficiency   drivePLUS)     |     | s      | 4.8 / 4.3  <br>- / -  | 4.9 / 4.5  <br>- / -  | 5.3 / 5   4.7 / 4.3       |                | 5.4 / 5   4.8 / 4.3     |                |
|                                                                                                                                                                                                   | 5.10   | Service brake                                                |     |        | electric              |                       |                           |                |                         |                |
| E-motor/Electronics                                                                                                                                                                               | 6.1    | Drive motor, performance S2 60 min (Efficiency   drivePLUS)  |     | kW     | 6   -                 |                       | 6   8.5                   |                |                         |                |
|                                                                                                                                                                                                   | 6.2    | Lift motor, performance with S3 (Efficiency   liftPLUS)      |     | kW     | 13.3   -              |                       | 13.3   15.5               |                |                         |                |
|                                                                                                                                                                                                   | 6.3    | Battery according to DIN 43531/35/36                         |     |        | DIN 43531 B           |                       |                           | DIN<br>43531 C | DIN<br>43531 B          | DIN<br>43531 C |
|                                                                                                                                                                                                   | 6.4    | Battery voltage/nominal capacity                             |     | V / Ah | 48 / 280              |                       | 48 / 465                  |                |                         |                |
|                                                                                                                                                                                                   | 6.5    | Battery weight                                               |     | kg     | 556                   |                       | 750                       |                |                         |                |
|                                                                                                                                                                                                   | 6.6    | Energy consumption according to VDI cycle                    |     | kWh/h  | 2.6                   | 2.9                   | 3.4                       |                | 3.6                     |                |
|                                                                                                                                                                                                   | 6.6.1  | Energy consumption according to EN cycle (Efficiency   PLUS) |     | kWh/h  | 2.81   -              | 3.05   -              | 3.16   3.21               |                | 3.19   3.23             |                |
|                                                                                                                                                                                                   | 6.6.2  | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           |     | kg/h   | 1.5   -               | 1.7   -               | 1.7   1.7                 |                |                         |                |
|                                                                                                                                                                                                   | 6.7    | Throughput (Efficiency   PLUS)                               |     | t/h    | 38.63   -             | 46.65   -             | 52.34   60.8              |                | 58.42   68.74           |                |
|                                                                                                                                                                                                   | 6.8.1  | Energy consumption with max. throughput (Efficiency   PLUS)  |     | kWh/h  | 2.89   -              | 3.06   -              | 3.08   4.04               |                | 3.22   4.11             |                |
| Other                                                                                                                                                                                             | 8.1    | Type of drive control                                        |     |        | Impulse / Mosfet AC   |                       | 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. |        |                                                              |     |        |                       |                       |                           |                |                         |                |

- VDI no. 1.8: battery size and mast type affect load distance x
- VDI no. 2.1.1: the battery size and mast version affect service weight and axle loads
- VDI no. 2.3: the battery size and mast version affect service weight and axle loads
- VDI no. 2.4: the battery size and mast version affect service weight and axle loads
- VDI no. 2.5: the battery size and mast version affect service weight and axle loads
- VDI no. 4.1: the mast version determines the tilt values
- VDI no. 4.10: the height of the support arms is increased by 30 mm with a load wheel cover
- VDI no. 4.19: the battery size, mast type and fork length affect the overall length l1
- VDI no. 4.20: the battery size and mast type affect the length including fork shank l2

- VDI no. 4.28: battery size and mast type affect the reach distance l4
- VDI no. 4.34.1: the battery size and mast type affect the aisle widths
- VDI no. 4.34.2: the battery size and mast type affect the aisle widths
- VDI no. 6.6.1: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.6.2: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.7: PLUS refers to the drive&liftPLUS performance package
- VDI no. 6.8.1: PLUS refers to the drive&liftPLUS performance package

The German production facilities in  
Norderstedt, Moosburg and Landsberg  
are certified as well as our Genuine Parts  
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ISO 9001  
ISO 14001

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