

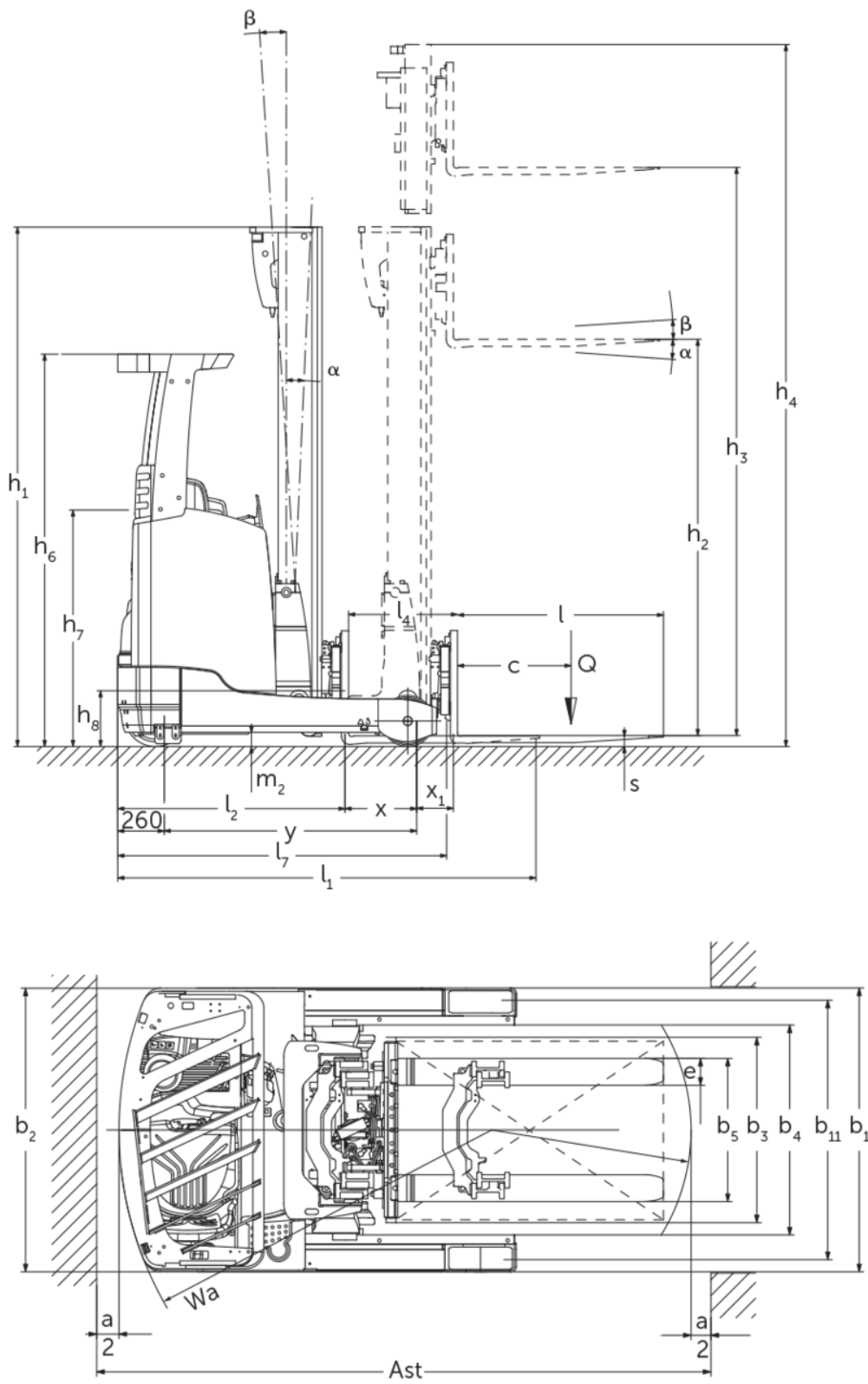


## **Electric reach truck**

### **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, 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, 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, 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        |             | 1400        |             |
|                          | 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         | 353         | 423         |
|                          | 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        |             | 1410        |             |
| Weights                  | 2.1.1  | Service weight (incl. battery)                             | kg        | 2560              | 2580        | 2975            | 3000        | 3110        | 3136        | 2975        | 3000        |
|                          | 2.3    | Axle load unladen front/rear                               | kg        | 1587 / 973        | 1587 / 993  | 1785 / 1190     | 1830 / 1170 | 1835 / 1275 | 1882 / 1254 | 1785 / 1190 | 1830 / 1170 |
|                          | 2.4    | Axle load fork forward laden front/rear                    | kg        | 634 / 2926        | 516 / 3264  | 481 / 3894      | 572 / 3828  | 518 / 4192  | 521 / 4215  | 481 / 3894  | 572 / 3828  |
|                          | 2.5    | Axle load fork back laden front/rear                       | kg        | 1282 / 2278       | 1361 / 2419 | 1531 / 2844     | 1628 / 2772 | 1649 / 3061 | 1658 / 3078 | 1531 / 2844 | 1628 / 2772 |
| 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        | 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        | 2418        | 2348        |
|                          | 4.20   | Length including fork shank                                | l2 mm     | 1196              |             | 1268            | 1198        | 1268        | 1258        | 1268        | 1198        |
|                          | 4.21.1 | total width                                                | b1 mm     | 1120              |             |                 | 1270        | 1120        | 1270        | 1120        | 1270        |
|                          | 4.21.2 | total width                                                | b2 mm     | 1120              |             |                 | 1270        | 1120        | 1270        | 1120        | 1270        |
|                          | 4.22   | Fork dimensions                                            | s/ 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   | 335 / 560   | 335 / 705   |
|                          | 4.26   | Width between support arms/ loading areas                  | b4 mm     | 900               |             | 780             | 940         | 780         | 940         | 780         | 940         |
|                          | 4.28   | Reach distance                                             | mm        | 485               | 570         | 558             | 628         | 608         | 618         | 558         | 628         |



|                          |        |                                                            |       |    |                   |             |
|--------------------------|--------|------------------------------------------------------------|-------|----|-------------------|-------------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)                     |       |    | Jungheinrich      |             |
|                          | 1.2    | Manufacturer's type designation                            |       |    | ETM / V 2         |             |
|                          | 1.3    | Drive                                                      |       |    | Electric          |             |
|                          | 1.4    | Operation                                                  |       |    | Sideways-seated   |             |
|                          | 1.5    | Load capacity/load                                         | Q     | kg | 1600              |             |
|                          | 1.6    | Load centre distance                                       | c     | mm | 600               |             |
|                          | 1.8    | Load distance, centre of drive axle to fork                | x     | mm | 403               | 413         |
|                          | 1.8.1  | Load distance, centre of drive axle to fork, mast extended |       | mm | 205               |             |
|                          | 1.9    | Wheelbase                                                  | y     | mm | 1460              |             |
| Weights                  | 2.1.1  | Service weight (incl. battery)                             |       | kg | 3110              | 3136        |
|                          | 2.3    | Axle load unladen front/rear                               |       | kg | 1835 / 1275       | 1882 / 1254 |
|                          | 2.4    | Axle load fork forward laden front/rear                    |       | kg | 518 / 4192        | 521 / 4215  |
|                          | 2.5    | Axle load fork back laden front/rear                       |       | kg | 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 285 x 100       |             |
|                          | 3.5    | Wheels, number front/back (x=driven)                       |       |    | 1x / 2            |             |
|                          | 3.7    | Tread width, rear                                          | b11   | mm | 986               | 1136        |
| Basic dimensions         | 4.1    | Forward/backward tilt of mast                              | a/ß   | °  | 1 / 3             |             |
|                          | 4.2    | Retracted mast height (h1)                                 | h1    | mm | 2400              |             |
|                          | 4.3    | Free lift (h2)                                             | h2    | mm | 1746              |             |
|                          | 4.4    | Lift (h3)                                                  | h3    | mm | 5600              |             |
|                          | 4.5    | Extended mast height (h4)                                  | h4    | mm | 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 | 285               |             |
|                          | 4.19   | total length                                               | l1    | mm | 2418              | 2408        |
|                          | 4.20   | Length including fork shank                                | l2    | mm | 1268              | 1258        |
|                          | 4.21.1 | total width                                                | b1    | mm | 1120              | 1270        |
|                          | 4.21.2 | total width                                                | b2    | mm | 1120              | 1270        |
|                          | 4.22   | Fork dimensions                                            | s/e/l | mm | 40 x 120 x 1150   |             |
|                          | 4.23   | Fork carriage connection class                             |       |    | 2B                |             |
|                          | 4.24   | Fork carriage width                                        | b3    | mm | 830               |             |
|                          | 4.25   | Width across forks                                         | b5    | mm | 335               |             |
|                          | 4.25.1 | Width across forks (min./max.)                             | b5    | mm | 335 / 560         | 335 / 705   |
|                          | 4.26   | Width between support arms/loading areas                   | b4    | mm | 780               | 940         |
|                          | 4.28   | Reach distance                                             |       | mm | 608               | 618         |
|                          | 4.32   | Ground clearance centre of wheelbase                       | m2    | mm | 80                |             |
|                          | 4.34.1 | Aisle width (pallet 1000x1200 sideways)                    | Ast   | mm | 2716              | 2709        |
|                          | 4.34.2 | Aisle width (pallet 800x1200 length)                       | Ast   | mm | 2762              | 2753        |
|                          | 4.35   | Turning radius                                             | Wa    | mm | 1670              |             |
|                          | 4.37   | Length over the support arms                               | L7    | mm | 1830              |             |

|                     |       |                                                               |        |                           |             |
|---------------------|-------|---------------------------------------------------------------|--------|---------------------------|-------------|
| Performance data    | 5.1   | Travel speed laden/unladen (Efficiency   drivePLUS)           | km/h   | 11 / 11   14 / 14         |             |
|                     | 5.2   | Lift speed laden/unladen (Efficiency   liftPLUS)              | m/s    | 0.35 / 0.7   0.48 / 0.7   |             |
|                     | 5.3   | Lowering speed laden/unladen (Efficiency   liftPLUS)          | m/s    | 0.55 / 0.55   0.55 / 0.55 |             |
|                     | 5.4   | Reach speed laden/unladen (Efficiency   liftPLUS)             | m/s    | 0.18 / 0.18   0.22 / 0.22 |             |
|                     | 5.7   | Gradeability laden/unladen (Efficiency   drivePLUS)           | %      | 8 / 12   8 / 12           |             |
|                     | 5.8   | Max. gradeability laden/unladen (Efficiency   drivePLUS)      | %      | 10 / 15   10 / 15         |             |
|                     | 5.9   | Acceleration time laden/unladen (Efficiency   drivePLUS)      | s      | 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   8.5                   |             |
|                     | 6.2   | Lift motor, performance with S3 (Efficiency   liftPLUS)       | kW     | 13.3   15.5               |             |
|                     | 6.3   | Battery according to DIN 43531/35/36                          |        | DIN 43531 B               | DIN 43531 C |
|                     | 6.4   | Battery voltage/nominal capacity                              | V / Ah | 48 / 465                  |             |
|                     | 6.5   | Battery weight                                                | kg     | 750                       |             |
|                     | 6.6.1 | Energy consumption according to EN cycle (Efficiency   PLUS)  | kWh/h  | 3.19   3.23               |             |
|                     | 6.6.2 | CO2 equivalent as per EN 16796 (Efficiency   PLUS)            | kg/h   | 1.7   1.7                 |             |
|                     | 6.7   | Throughput (Efficiency   PLUS)                                | t/h    | 58.42   68.74             |             |
|                     | 6.8   | Turnover efficiency according to VDI 2198 (Efficiency   PLUS) | t/kWh  | 18.1   16.7               |             |
|                     | 6.8.1 | Energy consumption with max. throughput (Efficiency   PLUS)   | kWh/h  | 3.22   4.11               |             |
| 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 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.

- 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  
Center in Kaltenkirchen.

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