



## **Electric reach truck** **ETM/ETV 318-325**

Lift height: 4250-14000 mm / Load capacity: 1800-2500 kg

ETM/ETV 318-325



# ETM/ETV 318-325

| ETV 318, ETV 320, ETM 325, ETV 325        | 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 | 6200 mm   | 2700 mm                    | 1970 mm        | 6930 mm                   |                               | 2 / 5 °                                |
|                                           | 6500 mm   | 2800 mm                    | 2070 mm        | 7230 mm                   |                               | 2 / 5 °                                |
|                                           | 6800 mm   | 2900 mm                    | 2170 mm        | 7530 mm                   |                               | 2 / 5 °                                |
|                                           | 7400 mm   | 3100 mm                    | 2370 mm        | 8130 mm                   |                               | 2 / 5 °                                |
|                                           | 7700 mm   | 3200 mm                    | 2470 mm        | 8430 mm                   |                               | 2 / 5 °                                |
|                                           | 8000 mm   | 3300 mm                    | 2570 mm        | 8730 mm                   |                               | 2 / 5 °                                |
|                                           | 8420 mm   | 3440 mm                    | 2710 mm        | 9150 mm                   |                               | 2 / 5 °                                |
|                                           | 8720 mm   | 3540 mm                    | 2810 mm        | 9450 mm                   |                               | 2 / 5 °                                |
|                                           | 9110 mm   | 3670 mm                    | 2940 mm        | 9840 mm                   |                               | 2 / 5 °                                |
|                                           | 9620 mm   | 3840 mm                    | 3110 mm        | 10350 mm                  |                               | 2 / 5 °                                |
|                                           | 9950 mm   | 3950 mm                    | 3220 mm        | 10680 mm                  |                               | 2 / 5 °                                |
|                                           | 10220 mm  | 4100 mm                    | 3370 mm        | 10950 mm                  |                               | 2 / 5 °                                |
|                                           | 10520 mm  | 4200 mm                    | 3470 mm        | 11250 mm                  |                               | 2 / 5 °                                |
|                                           | 10700 mm  | 4260 mm                    | 3530 mm        | 11430 mm                  |                               | 2 / 5 °                                |
|                                           | 10880 mm  | 4320 mm                    | 3590 mm        | 11610 mm                  |                               | 2 / 5 °                                |
|                                           | 11120 mm  | 4400 mm                    | 3670 mm        | 11850 mm                  |                               | 2 / 5 °                                |
|                                           | 11510 mm  | 4530 mm                    | 3800 mm        | 12240 mm                  |                               | 2 / 5 °                                |
| ETV 318, ETV 320, ETV 325                 | 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 | 4250 mm   | 2050 mm                    | 1320 mm        | 4980 mm                   | 1 / 5 °                       |                                        |
|                                           | 4700 mm   | 2200 mm                    | 1470 mm        | 5430 mm                   | 1 / 5 °                       |                                        |
|                                           | 5000 mm   | 2300 mm                    | 1570 mm        | 5730 mm                   | 1 / 5 °                       |                                        |
|                                           | 5300 mm   | 2400 mm                    | 1670 mm        | 6030 mm                   | 1 / 5 °                       |                                        |
|                                           | 5600 mm   | 2500 mm                    | 1770 mm        | 6330 mm                   | 1 / 3 °                       |                                        |
|                                           | 5900 mm   | 2600 mm                    | 1870 mm        | 6630 mm                   | 0.5 / 2 °                     |                                        |
|                                           | 6200 mm   | 2700 mm                    | 1970 mm        | 6930 mm                   | 0.5 / 2 °                     |                                        |

|                                           |           |                            |                |                           |                               |                                        |
|-------------------------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|----------------------------------------|
|                                           | 6500 mm   | 2800 mm                    | 2070 mm        | 7230 mm                   | 0.5 / 2 °                     |                                        |
|                                           | 6800 mm   | 2900 mm                    | 2170 mm        | 7530 mm                   | 0.5 / 2 °                     |                                        |
|                                           | 6950 mm   | 2950 mm                    | 2220 mm        | 7680 mm                   | 0.5 / 1 °                     |                                        |
|                                           | 7400 mm   | 3100 mm                    | 2370 mm        | 8130 mm                   | 0.5 / 1 °                     |                                        |
|                                           | 8000 mm   | 3300 mm                    | 2570 mm        | 8730 mm                   | 0.5 / 1 °                     |                                        |
|                                           | 8420 mm   | 3440 mm                    | 2710 mm        | 9150 mm                   | 0.5 / 1 °                     |                                        |
|                                           | 8720 mm   | 3540 mm                    | 2810 mm        | 9450 mm                   | 0.5 / 1 °                     |                                        |
|                                           | 9110 mm   | 3670 mm                    | 2940 mm        | 9840 mm                   | 0.5 / 1 °                     |                                        |
| ETV 320, ETV 325                          | 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 | 12020 mm  | 4700 mm                    | 3970 mm        | 12750 mm                  | 2 / 5 °                       |                                        |
|                                           | 12530 mm  | 4870 mm                    | 4140 mm        | 13260 mm                  | 2 / 5 °                       |                                        |
|                                           | 12830 mm  | 4970 mm                    | 4240 mm        | 13560 mm                  | 2 / 5 °                       |                                        |
|                                           | 13000 mm  | 5026 mm                    | 4296 mm        | 13728 mm                  | 2 / 5 °                       |                                        |

# VDI table

|                          |        |                                                            |              |                   |                 |             |             |
|--------------------------|--------|------------------------------------------------------------|--------------|-------------------|-----------------|-------------|-------------|
| Characteristic           | 1.1    | Manufacturer (abbreviated description)                     |              | Jungheinrich      |                 |             |             |
|                          | 1.2    | Manufacturer's type designation                            |              | ETM / V 3         |                 |             |             |
|                          | 1.3    | Drive                                                      |              | Electric          |                 |             |             |
|                          | 1.4    | Operation                                                  |              | Sideways-seated   |                 |             |             |
|                          | 1.5    | Load capacity/load                                         | Q kg         | 1800              | 2000            | 2500        |             |
|                          | 1.6    | Load centre distance                                       | c mm         | 600               |                 |             |             |
|                          | 1.8    | Load distance, centre of drive axle to fork                | x mm         | 364               | 412             | 321         | 487         |
|                          | 1.8.1  | Load distance, centre of drive axle to fork, mast extended | mm           | 205               | 230             |             |             |
|                          | 1.9    | Wheelbase                                                  | y mm         | 1460              | 1518            | 1673        |             |
| Weights                  | 2.1.1  | Service weight (incl. battery)                             | kg           | 3522              | 3650            | 3895        | 3700        |
|                          | 2.3    | Axle load unladen front/rear                               | kg           | 2074 / 1448       | 2163 / 1487     | 2274 / 1621 | 2264 / 1436 |
|                          | 2.4    | Axle load fork forward laden front/rear                    | kg           | 446 / 4876        | 558 / 5092      | 366 / 6029  | 602 / 5598  |
|                          | 2.5    | Axle load fork back laden front/rear                       | kg           | 1805 / 3517       | 1953 / 3397     | 2057 / 4338 | 2032 / 4168 |
| Wheels/suspension system | 3.1    | Tyres                                                      |              | Polyurethane (PU) |                 |             |             |
|                          | 3.2    | Tyre size, front                                           |              | Ø 343 x 114       |                 | Ø 343 x 140 |             |
|                          | 3.3    | Tyre size, rear                                            |              | Ø 285 x 100       | Ø 355 x 106     | Ø 355 x 135 |             |
|                          | 3.5    | Wheels, number front/back (x=driven)                       |              | 1x / 2            |                 |             |             |
|                          | 3.7    | Tread width, rear                                          | b11 mm       | 1136              | 1155            | 1034        | 1184        |
| Basic dimensions         | 4.1    | Forward/backward tilt of mast                              | a/β °        | 1 / 5             |                 |             |             |
|                          | 4.2    | Retracted mast height (h1)                                 | h1 mm        | 2400              |                 |             |             |
|                          | 4.3    | Free lift (h2)                                             | h2 mm        | 1670              |                 |             |             |
|                          | 4.4    | Lift (h3)                                                  | h3 mm        | 5300              |                 |             |             |
|                          | 4.5    | Extended mast height (h4)                                  | h4 mm        | 6030              |                 |             |             |
|                          | 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               | 355             |             |             |
|                          | 4.19   | total length                                               | l1 mm        | 2456              | 2466            | 2712        | 2546        |
|                          | 4.20   | Length including fork shank                                | l2 mm        | 1306              | 1316            | 1562        | 1396        |
|                          | 4.21.1 | total width                                                | b1 mm        | 1270              | 1290            | 1198        | 1348        |
|                          | 4.21.2 | total width                                                | b2 mm        | 1270              |                 | 1120        | 1270        |
|                          | 4.22   | Fork dimensions                                            | s/<br>e/l mm | 40 x 120 x 1150   | 50 x 140 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               | 356             |             |             |
|                          | 4.25.1 | Width across forks (min./max.)                             | b5 mm        | 335 / 730         | 356 / 750       | 356 / 580   | 356 / 750   |
|                          | 4.26   | Width between support arms/loading areas                   | b4 mm        | 940               |                 | 790         | 940         |
|                          | 4.28   | Reach distance                                             | mm           | 569               | 624             | 551         | 736         |
|                          | 4.32   | Ground clearance centre of wheelbase                       | m2 mm        | 80                | 95              |             |             |

|                                                                                                                                                                                                   |        |                                                              |     |        |                           |                     |                     |             |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------|-----|--------|---------------------------|---------------------|---------------------|-------------|
|                                                                                                                                                                                                   | 4.34.1 | Aisle width (pallet 1000x1200 sideways)                      | Ast | mm     | 2737                      | 2750                | 2971                | 2854        |
|                                                                                                                                                                                                   | 4.34.2 | Aisle width (pallet 800x1200 length)                         | Ast | mm     | 2790                      | 2794                | 3031                | 2883        |
|                                                                                                                                                                                                   | 4.35   | Turning radius                                               | Wa  | mm     | 1663                      | 1710                | 1865                |             |
|                                                                                                                                                                                                   | 4.37   | Length over the support arms                                 | L7  | mm     | 1842                      | 1920                | 2075                |             |
| Performance data                                                                                                                                                                                  | 5.1    | Travel speed laden/unladen (Efficiency   drivePLUS)          |     | km/h   | 11 / 11   14 / 14         |                     | - / -   14 / 14     |             |
|                                                                                                                                                                                                   | 5.2    | Lift speed laden/unladen (Efficiency   liftPLUS)             |     | m/s    | 0.32 / 0.64   0.38 / 0.64 |                     | - / -   0.35 / 0.64 |             |
|                                                                                                                                                                                                   | 5.3    | Lowering speed laden/unladen (Efficiency   liftPLUS)         |     | m/s    | 0.55 / 0.55   0.55 / 0.55 |                     | - / -   0.55 / 0.55 |             |
|                                                                                                                                                                                                   | 5.4    | Reach speed laden/unladen (Efficiency   liftPLUS)            |     | m/s    | 0.18 / 0.18   0.2 / 0.2   |                     | - / -   0.2 / 0.2   |             |
|                                                                                                                                                                                                   | 5.7    | Gradeability laden/unladen (Efficiency   drivePLUS)          |     | %      | 7 / 11   7 / 11           |                     | - / -   7 / 11      |             |
|                                                                                                                                                                                                   | 5.8    | Max. gradeability laden/unladen (Efficiency   drivePLUS)     |     | %      | 9 / 13   9 / 13           | 10 / 15   10 / 15   | - / -   10 / 15     |             |
|                                                                                                                                                                                                   | 5.9    | Acceleration time laden/unladen (Efficiency   drivePLUS)     |     | s      | 5.4 / 5   5.2 / 4.7       | 5.6 / 5   5.3 / 4.7 | - / -   5.4 / 4.7   |             |
|                                                                                                                                                                                                   | 5.10   | Service brake                                                |     |        | electric                  |                     |                     |             |
| E-motor/Electronics                                                                                                                                                                               | 6.1    | Drive motor, performance S2 60 min (Efficiency   drivePLUS)  |     | kW     | 6   8.5                   |                     | -   8.5             |             |
|                                                                                                                                                                                                   | 6.2    | Lift motor, performance with S3 (Efficiency   liftPLUS)      |     | kW     | 13.3   15.5               |                     | -   15.5            |             |
|                                                                                                                                                                                                   | 6.3    | Battery according to DIN 43531/35/36                         |     |        | DIN 43531 C               |                     | DIN 43531 B         | DIN 43531 C |
|                                                                                                                                                                                                   | 6.4    | Battery voltage/nominal capacity                             |     | V / Ah | 48 / 620                  |                     | 48 / 775            | 48 / 620    |
|                                                                                                                                                                                                   | 6.5    | Battery weight                                               |     | kg     | 1005                      |                     | 1210                | 1005        |
|                                                                                                                                                                                                   | 6.6    | Energy consumption according to VDI cycle                    |     | kWh/h  | 4.3                       | 4.5                 | 4.9                 |             |
|                                                                                                                                                                                                   | 6.6.1  | Energy consumption according to EN cycle (Efficiency   PLUS) |     | kWh/h  | 3.77   3.73               | 3.89   4.57         | -   4.57            |             |
|                                                                                                                                                                                                   | 6.6.2  | CO2 equivalent as per EN 16796 (Efficiency   PLUS)           |     | kg/h   | 2.1   2                   | 2.1   2.5           | -   2.5             |             |
|                                                                                                                                                                                                   | 6.7    | Throughput (Efficiency   PLUS)                               |     | t/h    | 60.85   73.39             | 67.48   76.51       | -   95.14           |             |
|                                                                                                                                                                                                   | 6.8.1  | Energy consumption with max. throughput (Efficiency   PLUS)  |     | kWh/h  | 3.25   4.66               | 3.54   4.64         | -   4.57            |             |
| 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. |        |                                                              |     |        |                           |                     |                     |             |

- 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

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