



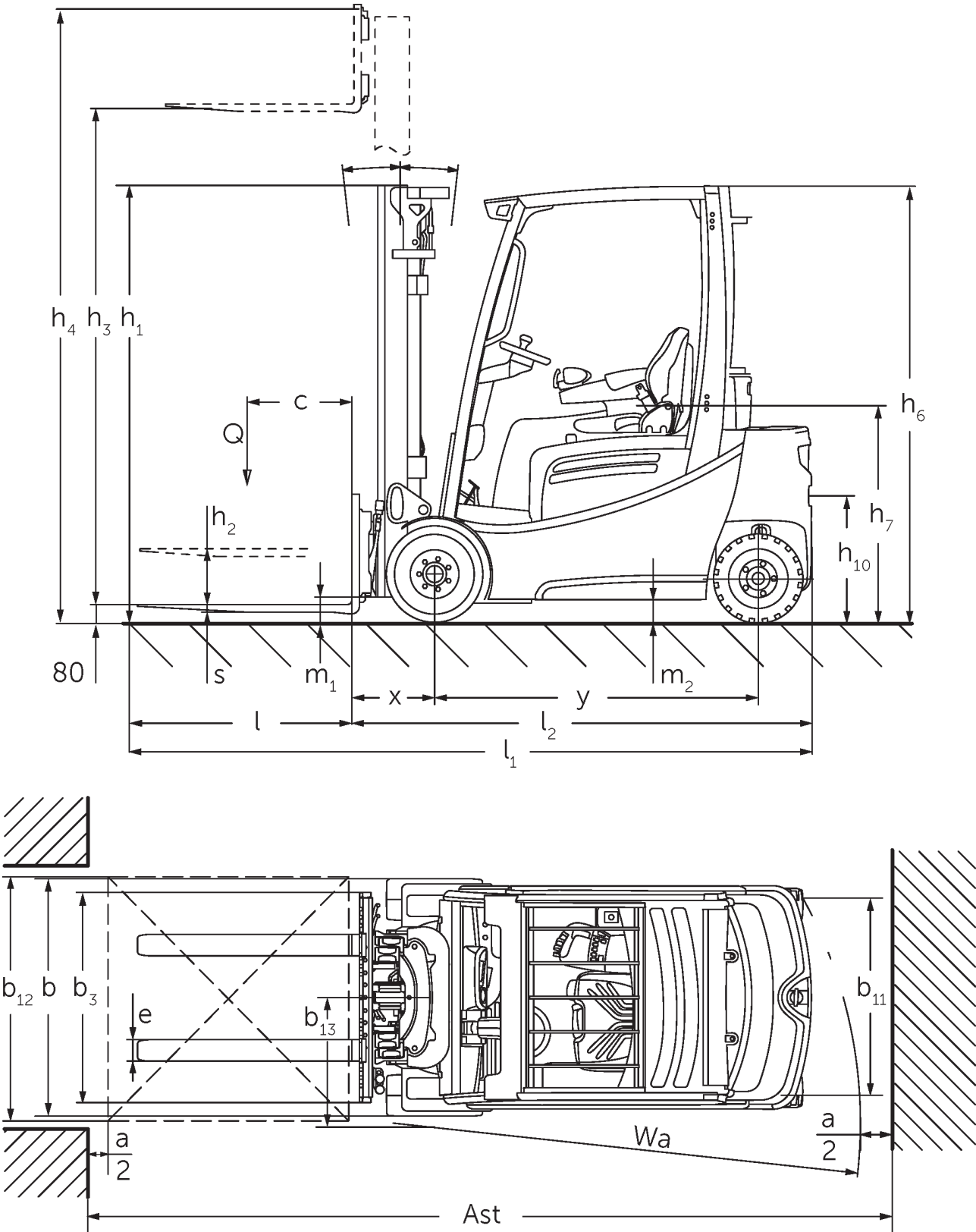
## **Electric four wheel counterbalance forklift truck**

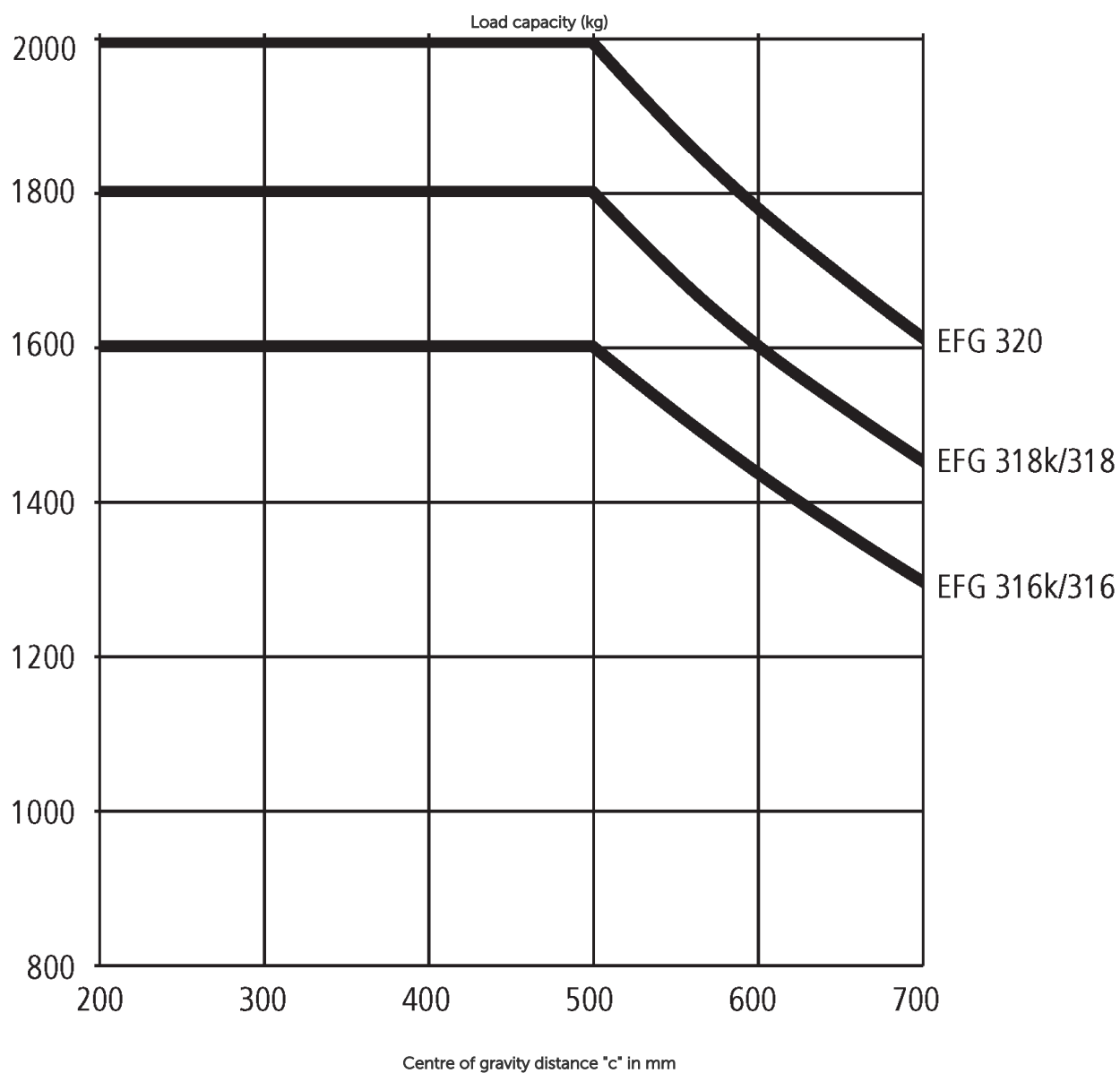
**EFG 316-320**

Lift height: 2020-7000 mm / Load capacity: 1600-2000 kg



EFG 316-320





# EFG 316-320

| EFG 316k, EFG 316          | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
|----------------------------|-----------|----------------------------|----------------|---------------------------|-------------------------------|
| Duplex mast ZT             | 3000 mm   | 2060 mm                    | 150 mm         | 3590 mm                   | 7 / 6 °                       |
|                            | 3100 mm   | 2110 mm                    | 150 mm         | 3690 mm                   | 7 / 6 °                       |
|                            | 3300 mm   | 2210 mm                    | 150 mm         | 3890 mm                   | 7 / 7 °                       |
|                            | 3500 mm   | 2310 mm                    | 150 mm         | 4090 mm                   | 7 / 7 °                       |
|                            | 3700 mm   | 2410 mm                    | 150 mm         | 4290 mm                   | 7 / 7 °                       |
|                            | 4000 mm   | 2560 mm                    | 150 mm         | 4590 mm                   | 7 / 7 °                       |
|                            | 4500 mm   | 2810 mm                    | 150 mm         | 5090 mm                   | 7 / 7 °                       |
| Duplex mast ZZ             | 2900 mm   | 1965 mm                    | 1375 mm        | 3490 mm                   | 7 / 6 °                       |
|                            | 3100 mm   | 2065 mm                    | 1475 mm        | 3690 mm                   | 7 / 6 °                       |
|                            | 3180 mm   | 2105 mm                    | 1515 mm        | 3770 mm                   | 7 / 7 °                       |
|                            | 3300 mm   | 2165 mm                    | 1575 mm        | 3890 mm                   | 7 / 7 °                       |
|                            | 3500 mm   | 2265 mm                    | 1675 mm        | 4090 mm                   | 7 / 7 °                       |
|                            | 3700 mm   | 2365 mm                    | 1775 mm        | 4290 mm                   | 7 / 7 °                       |
|                            | 4000 mm   | 2515 mm                    | 1925 mm        | 4590 mm                   | 7 / 7 °                       |
| Triplex mast DZ            | 4250 mm   | 1975 mm                    | 1385 mm        | 4840 mm                   | 7 / 4 °                       |
|                            | 4400 mm   | 2025 mm                    | 1435 mm        | 4990 mm                   | 7 / 4 °                       |
|                            | 4640 mm   | 2105 mm                    | 1515 mm        | 5230 mm                   | 7 / 5 °                       |
|                            | 4700 mm   | 2125 mm                    | 1535 mm        | 5290 mm                   | 7 / 5 °                       |
|                            | 4800 mm   | 2165 mm                    | 1575 mm        | 5390 mm                   | 7 / 5 °                       |
|                            | 5000 mm   | 2235 mm                    | 1645 mm        | 5590 mm                   | 7 / 5 °                       |
|                            | 5500 mm   | 2415 mm                    | 1825 mm        | 6090 mm                   | 7 / 5 °                       |
|                            | 6000 mm   | 2585 mm                    | 1995 mm        | 6590 mm                   | 7 / 5 °                       |
|                            | 6500 mm   | 2765 mm                    | 2175 mm        | 7090 mm                   | 7 / 5 °                       |
|                            | 7000 mm   | 2935 mm                    | 2345 mm        | 7590 mm                   | 7 / 5 °                       |
| EFG 318k, EFG 318, EFG 320 | Lift (h3) | Retracted mast height (h1) | Free lift (h2) | Extended mast height (h4) | Forward/backward tilt of mast |
| Duplex mast ZT             | 2020 mm   | 1577 mm                    | 150 mm         | 2632 mm                   | 7 / 5 °                       |
|                            | 3000 mm   | 2067 mm                    | 150 mm         | 3612 mm                   | 7 / 6 °                       |
|                            | 3100 mm   | 2117 mm                    | 150 mm         | 3712 mm                   | 7 / 6 °                       |

|                 |         |         |         |         |         |
|-----------------|---------|---------|---------|---------|---------|
|                 | 3300 mm | 2217 mm | 150 mm  | 3912 mm | 7 / 7 ° |
|                 | 3500 mm | 2317 mm | 150 mm  | 4112 mm | 7 / 7 ° |
|                 | 3700 mm | 2417 mm | 150 mm  | 4312 mm | 7 / 7 ° |
|                 | 4000 mm | 2567 mm | 150 mm  | 4612 mm | 7 / 7 ° |
|                 | 4500 mm | 2817 mm | 150 mm  | 5112 mm | 7 / 7 ° |
| Duplex mast ZZ  | 2900 mm | 1972 mm | 1330 mm | 3542 mm | 7 / 6 ° |
|                 | 3100 mm | 2072 mm | 1430 mm | 3742 mm | 7 / 6 ° |
|                 | 3180 mm | 2112 mm | 1470 mm | 3822 mm | 7 / 7 ° |
|                 | 3300 mm | 2172 mm | 1530 mm | 3942 mm | 7 / 7 ° |
|                 | 3500 mm | 2272 mm | 1630 mm | 4142 mm | 7 / 7 ° |
|                 | 3700 mm | 2372 mm | 1730 mm | 4342 mm | 7 / 7 ° |
|                 | 4000 mm | 2522 mm | 1880 mm | 4642 mm | 7 / 7 ° |
| Triplex mast DZ | 4250 mm | 1982 mm | 1340 mm | 4892 mm | 7 / 6 ° |
|                 | 4400 mm | 2032 mm | 1390 mm | 5042 mm | 7 / 6 ° |
|                 | 4640 mm | 2112 mm | 1470 mm | 5282 mm | 7 / 5 ° |
|                 | 4700 mm | 2132 mm | 1490 mm | 5342 mm | 7 / 5 ° |
|                 | 4800 mm | 2172 mm | 1530 mm | 5442 mm | 7 / 5 ° |
|                 | 5000 mm | 2242 mm | 1600 mm | 5642 mm | 7 / 5 ° |
|                 | 5500 mm | 2422 mm | 1780 mm | 6142 mm | 7 / 5 ° |
|                 | 6000 mm | 2592 mm | 1950 mm | 6642 mm | 7 / 5 ° |
|                 | 6500 mm | 2772 mm | 2130 mm | 7142 mm | 7 / 5 ° |
|                 | 7000 mm | 2942 mm | 2300 mm | 7642 mm | 7 / 5 ° |

# VDI table

|                  |         |                                             |                                |                    |             |             |             |             |                 |
|------------------|---------|---------------------------------------------|--------------------------------|--------------------|-------------|-------------|-------------|-------------|-----------------|
| Characteristic   | 1.1     | Manufacturer (abbreviated description)      |                                | Jungheinrich       |             |             |             |             |                 |
|                  | 1.2     | Manufacturer's type designation             |                                | EFG 316k           | EFG 316     | EFG 318k    | EFG 318     | EFG 320     |                 |
|                  | 1.3     | Drive type                                  |                                | electric           |             |             |             |             |                 |
|                  | 1.4     | Operation                                   |                                | Seat               |             |             |             |             |                 |
|                  | 1.5     | Load capacity/load                          | Q    kg                        | 1600               |             | 1800        |             | 2000        |                 |
|                  | 1.6     | Load centre distance                        | c    mm                        | 500                |             |             |             |             |                 |
|                  | 1.8     | Load distance, centre of drive axle to fork | x    mm                        | 344                |             | 364         |             |             |                 |
|                  | 1.9     | Wheelbase                                   | y    mm                        | 1400               | 1508        | 1400        | 1508        |             |                 |
|                  | Weights | 2.1.1                                       | Service weight (incl. battery) | kg                 | 2994        | 2965        | 3159        | 3130        | 3290            |
| 2.2              |         | Axle load laden front/rear                  | kg                             | 3995 / 599         | 4033 / 532  | 4413 / 546  | 4437 / 493  | 4753 / 537  |                 |
| 2.3              |         | Axle load unladen front/rear                | kg                             | 1362 / 1632        | 1474 / 1491 | 1399 / 1760 | 1512 / 1618 | 1503 / 1787 |                 |
|                  |         |                                             |                                |                    |             |             |             |             |                 |
| Wheels/chassis   | 3.1     | Tyres                                       |                                | Super-elastic (SE) |             |             |             |             |                 |
|                  | 3.2     | Tyre size, front                            |                                | 18 x 7-8           |             | 200 / 50-10 |             |             |                 |
|                  | 3.3     | Tyre size, rear                             |                                | 16 x 6-8           |             |             |             |             |                 |
|                  | 3.5     | Wheels, number front/back (x=driven)        |                                | 2x/2               |             |             |             |             |                 |
|                  | 3.6     | Tread width, front                          | b10   mm                       | 904                |             | 914         |             |             |                 |
|                  | 3.7     | Tread width, rear                           | b11   mm                       | 830                |             |             |             |             |                 |
|                  |         |                                             |                                |                    |             |             |             |             |                 |
| Basic dimensions | 4.1     | Forward/backward tilt of mast               | a/β   °                        | 7 / 6              |             |             |             |             |                 |
|                  | 4.2     | Retracted mast height (h1)                  | h1   mm                        | 2060               |             | 2067        |             |             |                 |
|                  | 4.3     | Free lift (h2)                              | h2   mm                        | 150                |             |             |             |             |                 |
|                  | 4.4     | Lift (h3)                                   | h3   mm                        | 3000               |             |             |             |             |                 |
|                  | 4.5     | Extended mast height (h4)                   | h4   mm                        | 3590               |             | 3612        |             |             |                 |
|                  | 4.7     | Height of overhead guard (cab)              | h6   mm                        | 2040               |             |             |             |             |                 |
|                  | 4.8     | Seat height/stand height                    | h7   mm                        | 920                |             |             |             |             |                 |
|                  | 4.12    | Coupling height                             | h10   mm                       | 410                |             |             |             |             |                 |
|                  | 4.12.1  | 2. Coupling height                          | mm                             | 580                |             |             |             |             |                 |
|                  | 4.19    | Total length                                | l1   mm                        | 3144               | 3252        | 3164        | 3272        |             |                 |
|                  | 4.20    | Length including fork shank                 | l2   mm                        | 1994               | 2102        | 2014        | 2122        |             |                 |
|                  | 4.21.1  | total width                                 | b1   mm                        | 1060               |             | 1120        |             |             |                 |
|                  | 4.22    | Fork dimensions                             | s/<br>e/l   mm                 | 40 x 80 x 1150     |             |             |             |             | 40 x 100 x 1150 |
|                  | 4.23    | Fork carriage connection class              |                                | 2A                 |             |             |             |             |                 |
|                  | 4.24    | Fork carriage width                         | b3   mm                        | 980                |             |             |             |             |                 |
|                  | 4.31    | Ground clearance laden under mast           | m1   mm                        | 97                 |             | 105         |             |             |                 |
|                  | 4.32    | Ground clearance centre of wheelbase        | m2   mm                        | 100                |             |             |             |             |                 |
|                  | 4.34.1  | Aisle width (pallet 1000x1200 sideways)     | Ast   mm                       | 3407               | 3530        | 3427        | 3550        |             |                 |
|                  | 4.34.2  | Aisle width (pallet 800x1200 length)        | Ast   mm                       | 3603               | 3729        | 3623        | 3749        |             |                 |
|                  | 4.35    | Turning radius                              | Wa   mm                        | 1859               | 1985        | 1859        | 1985        |             |                 |
|                  | 4.36    | Smallest pivot point distance               | b13   mm                       | 498                | 562         | 498         | 562         |             |                 |

|                                                                                                                                                                                                   |                            |                                           |                                    |                                        |             |               |               |               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------------------------------------|------------------------------------|----------------------------------------|-------------|---------------|---------------|---------------|
| Performance data                                                                                                                                                                                  | 5.1                        | Travel speed laden/unladen                | km/h                               | 17 / 17                                |             |               |               |               |
|                                                                                                                                                                                                   | 5.2                        | Lift speed laden/unladen                  | m/s                                | 0.51 / 0.74                            |             | 0.46 / 0.74   |               | 0.4 / 0.63    |
|                                                                                                                                                                                                   | 5.3                        | Lowering speed laden/unladen              | m/s                                | 0.55 / 0.55                            |             |               |               |               |
|                                                                                                                                                                                                   | 5.5                        | Drawbar pull laden/unladen                | N                                  | 2150 / 2450                            | 2100 / 2450 | 2000 / 2300   |               |               |
|                                                                                                                                                                                                   | 5.6                        | Max. drawbar pull laden/unladen           | N                                  | 13000 / 11900                          |             | 12500 / 12200 | 12500 / 12500 | 12300 / 12000 |
|                                                                                                                                                                                                   | 5.7                        | Gradeability laden/unladen                | %                                  | 7.3 / 12.3                             | 7 / 11.5    | 6.2 / 10.7    | 5.9 / 10.5    | 5.7 / 10.4    |
|                                                                                                                                                                                                   | 5.8                        | Max. gradeability laden/unladen           | %                                  | 27 / 30                                | 27 / 33     | 25 / 29       | 25 / 32       | 24 / 31       |
|                                                                                                                                                                                                   | 5.9                        | Acceleration time laden/unladen           | s                                  | 5.7 / 5.2                              |             | 5.8 / 5.2     |               | 5.9 / 5.5     |
|                                                                                                                                                                                                   | 5.10                       | Service brake                             |                                    | Friction brake (mechanically operated) |             |               |               |               |
|                                                                                                                                                                                                   | Electric motor/electronics | 6.1                                       | Drive motor, performance S2 60 min | kW                                     | 4.5         |               |               |               |
| 6.1.1                                                                                                                                                                                             |                            | 2. Drive motor, performance S2 60 min     | kW                                 | 4.5                                    |             |               |               |               |
| 6.2                                                                                                                                                                                               |                            | Lift motor, performance with S3           | kW                                 | 11.5                                   |             |               |               |               |
| 6.3                                                                                                                                                                                               |                            | Battery according to DIN 43531/35/36      |                                    | DIN 43531 A                            |             |               |               |               |
| 6.4                                                                                                                                                                                               |                            | Battery voltage/nominal capacity          | V / Ah                             | 48 / 625                               | 48 / 750    | 48 / 625      | 48 / 750      |               |
| 6.5                                                                                                                                                                                               |                            | Battery weight                            | kg                                 | 855                                    | 1025        | 855           | 1025          |               |
| 6.6.1                                                                                                                                                                                             |                            | Energy consumption according to EN cycle  | kWh/h                              | 3.9                                    |             | 4.1           |               | 4.5           |
| 6.6.2                                                                                                                                                                                             |                            | CO2 equivalent as per EN 16796            | kg/h                               | 2.1                                    |             | 2.2           |               | 2.4           |
| 6.7                                                                                                                                                                                               |                            | Throughput                                | t/h                                | 112                                    |             | 124           |               | 138           |
| 6.8                                                                                                                                                                                               |                            | Turnover efficiency according to VDI 2198 | t/kWh                              | 22.9                                   |             | 23            |               | 25.1          |
| Other                                                                                                                                                                                             | 8.1                        | Type of drive control                     |                                    | Impulse/AC                             |             |               |               |               |
|                                                                                                                                                                                                   | 10.1                       | Operating pressure for attachment         | bar                                | 230                                    |             |               |               |               |
|                                                                                                                                                                                                   | 10.2                       | Oil flow for attachments                  | l/min                              | 27                                     |             |               |               |               |
|                                                                                                                                                                                                   | 10.7                       | Sound pressure level according to EN12053 | dB (A)                             | 67                                     |             |               |               |               |
|                                                                                                                                                                                                   |                            |                                           |                                    |                                        |             |               |               |               |
|                                                                                                                                                                                                   | 10.8                       | Trailer coupling, model/type DIN          |                                    | DIN 15170 H                            |             |               |               |               |
| - 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. |                            |                                           |                                    |                                        |             |               |               |               |

- 6.6.1: 60 working cycles / h

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