



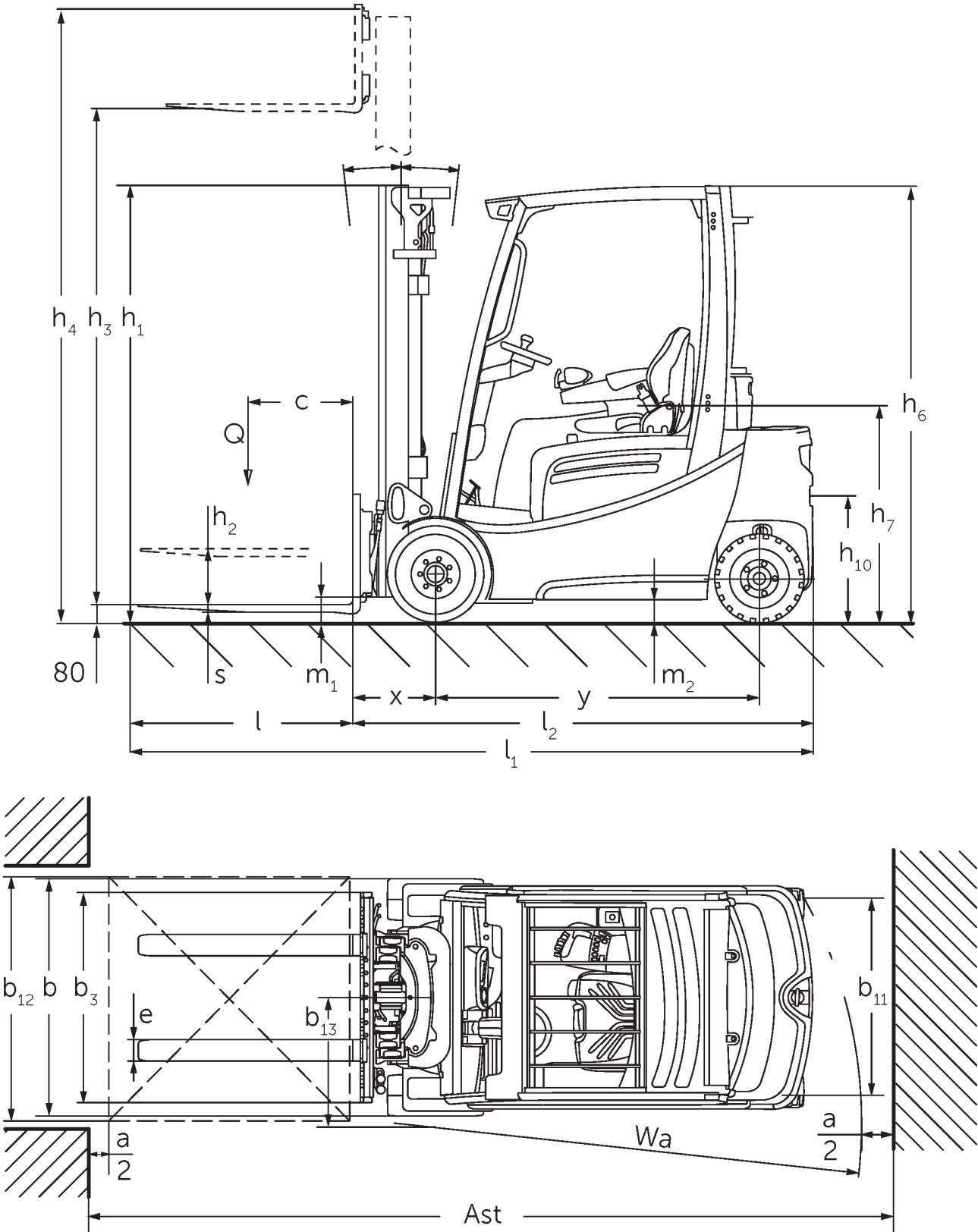
## **Electric four wheel counterbalance forklift truck**

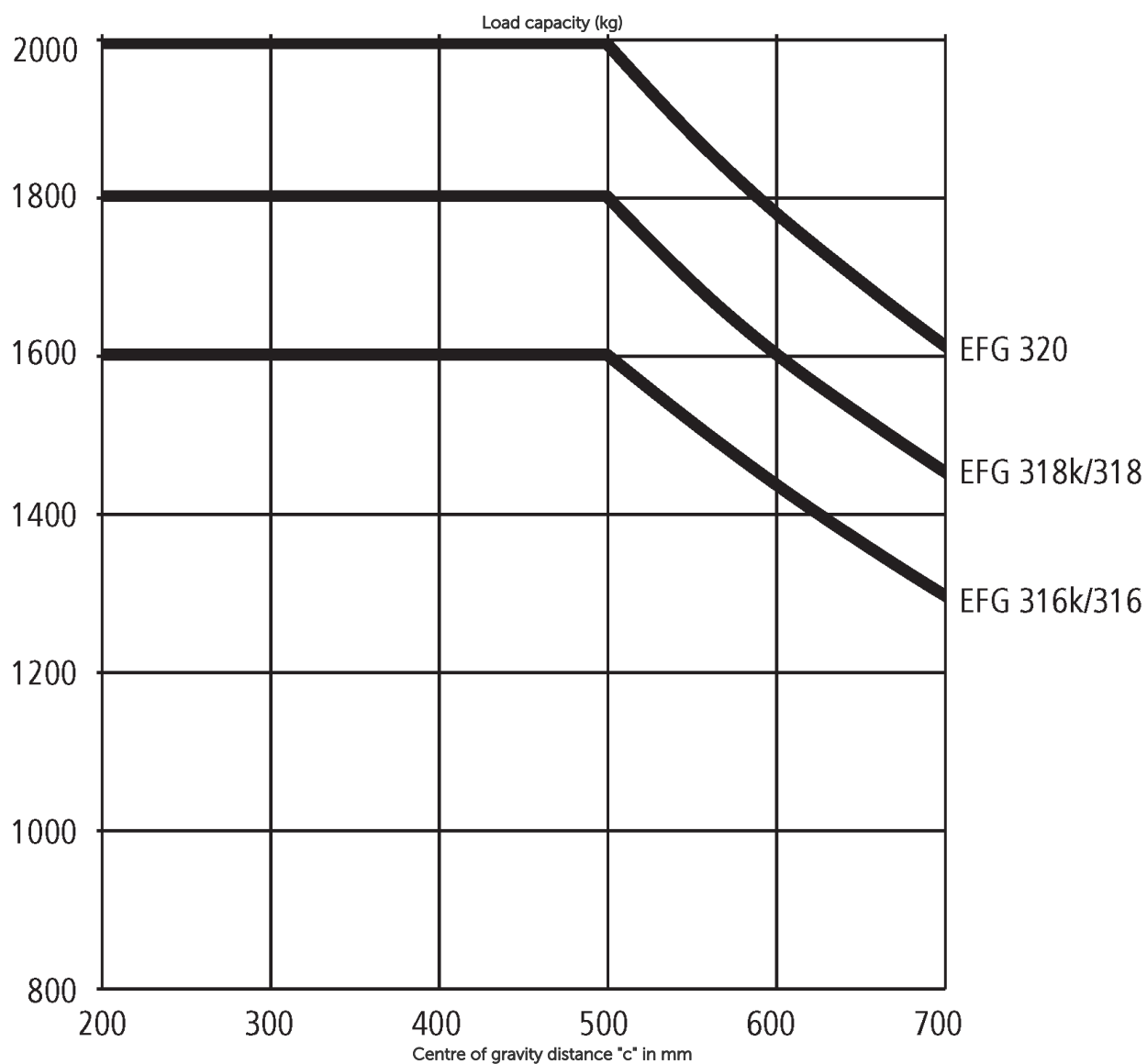
**EFG 316-320**

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 316-320        |             |             |             |             |
|                          | 1.3    | Drive                                       |              | 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/suspension system | 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     |             |             |             |             |
|                          |        |                                             |              |                    |             |             |             |             |
|                          | 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                        | N                                  | 2150                             | 2100     | 2000          |               |               |
|                                                                                                                                                                                                   | 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                             |                                    | Reibbremse (mechanisch betätigt) |          |               |               |               |
|                                                                                                                                                                                                   | E-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  
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