

# Electric powered forklift 48V

**B3**

3 wheel

**B3**

**B3-Li**



# Electric powered forklift 1.5 - 1.6 t

## IDENTIFICATION

|     |                                             |   |    |              |              |              |              |
|-----|---------------------------------------------|---|----|--------------|--------------|--------------|--------------|
| 1.1 | Manufacturer                                |   |    | CESAB        | CESAB        | CESAB        | CESAB        |
| 1.2 | Model                                       |   |    | B3-15        | B3-16        | B3-16L       | B3-16-Li     |
| 1.3 | Drive                                       |   |    | Electric     | Electric     | Electric     | Electric     |
| 1.4 | Operator type                               |   |    | Rider seated | Rider seated | Rider seated | Rider seated |
| 1.5 | Load capacity/rated load                    | Q | kg | 1500         | 1600         | 1600         | 1600         |
| 1.6 | Load centre                                 | c | mm | 500          | 500          | 500          | 500          |
| 1.8 | Load distance, centre of drive axle to fork | x | mm | 317          | 317          | 317          | 317          |
| 1.9 | Wheelbase                                   | y | mm | 1305         | 1413         | 1521         | 1413         |

## WEIGHT

|     |                                     |    |           |           |           |           |
|-----|-------------------------------------|----|-----------|-----------|-----------|-----------|
| 2.1 | Service weight                      | kg | 2974      | 3009      | 2985      | 3095      |
| 2.2 | Axle load, with load, front/rear    | kg | 3907/567  | 4061/548  | 4037/548  | 3836/542  |
| 2.3 | Axle load, without load, front/rear | kg | 1468/1506 | 1536/1473 | 1578/1407 | 1311/1467 |

## TYRES

|     |                                                                       |                 |    |            |            |            |            |
|-----|-----------------------------------------------------------------------|-----------------|----|------------|------------|------------|------------|
| 3.1 | Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R) |                 |    | SE         | SE         | SE         | SE         |
| 3.2 | Tyre size, front                                                      |                 |    | 18x7-8     | 18x7-8     | 18x7-8     | 18x7-8     |
| 3.3 | Tyre size, rear                                                       |                 |    | 15x4.1/2x8 | 15x4.1/2x8 | 15x4.1/2x8 | 15x4.1/2x8 |
| 3.5 | Wheels, number front/rear (x = driven wheels)                         |                 |    | 2x/2       | 2x/2       | 2x/2       | 2x/2       |
| 3.6 | Track width, front                                                    | b <sub>10</sub> | mm | 905        | 905        | 905        | 905        |
| 3.7 | Track width, rear                                                     | b <sub>11</sub> | mm | 185        | 185        | 185        | 185        |

## DIMENSIONS

|      |                                             |                 |     |             |             |             |             |
|------|---------------------------------------------|-----------------|-----|-------------|-------------|-------------|-------------|
| 4.1  | Tilt of mast/fork carriage forward/backward | α/β             | deg | 5/7         | 5/7         | 5/7         | 5/7         |
| 4.2  | Height, mast lowered                        | h <sub>1</sub>  | mm  | 2120        | 2120        | 2120        | 2120        |
| 4.3  | Free lift                                   | h <sub>2</sub>  | mm  | 115         | 115         | 115         | 115         |
| 4.4  | Lift                                        | h <sub>3</sub>  | mm  | 3300        | 3300        | 3300        | 3300        |
|      | Lift height                                 | h <sub>23</sub> | mm  | 3335        | 3335        | 3335        | 3335        |
| 4.5  | Height, mast extended                       | h <sub>4</sub>  | mm  | 3870        | 3870        | 3870        | 3870        |
| 4.7  | Height of overhead guard (cab)              | h <sub>6</sub>  | mm  | 2055        | 2055        | 2055        | 2055        |
| 4.8  | Seat height/stand height                    | h <sub>7</sub>  | mm  | 1065        | 1065        | 1065        | 1065        |
| 4.12 | Coupling height                             | h <sub>10</sub> | mm  | 550         | 550         | 550         | 550         |
| 4.19 | Overall length                              | l <sub>1</sub>  | mm  | 2772        | 2880        | 2988        | 2880        |
| 4.20 | Length to face of forks                     | l <sub>2</sub>  | mm  | 1772        | 1880        | 1988        | 1880        |
| 4.21 | Overall width                               | b <sub>1</sub>  | mm  | 1060        | 1060        | 1060        | 1060        |
| 4.22 | Fork dimensions                             | s/e/l           | mm  | 35/100/1000 | 35/100/1000 | 35/100/1000 | 35/100/1000 |
| 4.23 | Fork carriage DIN 15 173, class/type A, B   |                 |     | IIA         | IIA         | IIA         | IIA         |
| 4.24 | Fork-carriage width                         | b <sub>3</sub>  | mm  | 920         | 920         | 920         | 920         |
| 4.31 | Ground clearance, with load, below mast     | m <sub>1</sub>  | mm  | 80          | 80          | 80          | 80          |
| 4.32 | Ground clearance, centre of wheelbase       | m <sub>2</sub>  | mm  | 81          | 81          | 81          | 93          |
| 4.33 | Aisle width for pallets 1000x1200 crossways | A <sub>st</sub> | mm  | 3102        | 3210        | 3318        | 3210        |
| 4.35 | Aisle width for pallets 800x1200 lengthways | A <sub>st</sub> | mm  | 3223        | 3331        | 3440        | 3331        |
| 4.35 | Turning radius                              | W <sub>a</sub>  | mm  | 1455        | 1563        | 1671        | 1563        |
| 4.36 | Internal turning radius                     | b <sub>13</sub> | mm  | 0           | 0           | 0           | 0           |

## PERFORMANCE DATA

|      |                                                      |      |                       |                       |                       |                       |
|------|------------------------------------------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|
| 5.1  | Travel speed, with/without load                      | km/h | 16/16                 | 16/16                 | 16/16                 | 16/16                 |
| 5.2  | Lift speed, with/without load Standard   Performance | m/s  | 0,45/0,61   0,54/0,75 | 0,43/0,61   0,54/0,75 | 0,43/0,61   0,54/0,75 | 0,43/0,61   0,54/0,75 |
| 5.3  | Lowering speed, with/without load                    | m/s  | 0,58/0,57             | 0,58/0,57             | 0,58/0,57             | 0,58/0,57             |
| 5.5  | Drawbar pull, with/without load S2-60'               | N    | 6966                  | 6982                  | 6982                  | 7656                  |
| 5.6  | Max. drawbar pull, with/without load                 | N    | 12237                 | 12266                 | 12266                 | 13450                 |
| 5.7  | Gradeability, with/without load                      | %    | 17,6/28               | 17/27,7               | 17,1/28               | 20,1/34,1             |
| 5.8  | Max. gradeability, with/without load                 | %    | 24,9/40,3             | 24,1/39,8             | 24,3/40,2             | 28,6/38,2             |
| 5.9  | Acceleration time, with/without load                 | s    | 4,5/4,1               | 4,6/4,2               | 4,6/4,2               | 4,6/4,2               |
| 5.10 | Service brake                                        |      | Hydraulic             | Hydraulic             | Hydraulic             | Hydraulic             |

| ELECTRIC MOTOR |                                                  |       |                |                |                |            |
|----------------|--------------------------------------------------|-------|----------------|----------------|----------------|------------|
| 6.1            | Drive motor rating S2 60 min                     | kW    | 6,6x2          | 6,6x2          | 6,6x2          | 6,6x2      |
| 6.2            | Lift motor rating S3 15% Standard   Performance  | kW    | 11   12,5      | 11   12,5      | 11   12,5      | 11   12,5  |
| 6.3            | Battery acc. to DIN 43 531/35/36 A, B, C, no     |       | 43 531A        | 43 531A        | 43 531A        | no         |
| 6.4            | Battery voltage, nominal capacity K <sub>s</sub> | V/Ah  | 48/420-460-500 | 48/525-575-625 | 48/630-690-750 | 48/300-420 |
| 6.5            | Battery weight                                   | kg    | 708            | 856            | 1013           | 240        |
| 6.6            | Energy consumption acc. to EN16796 Standard      | kWh/h | 3,5            | 3,7            | 3,6            | 3,6        |
| 6.6            | Energy consumption acc. to EN16796 Performance   | kWh/h | 3,3            | 3,6            | 3,4            | 3,4        |

| OTHER |                                                      |       |                 |                 |                 |                 |
|-------|------------------------------------------------------|-------|-----------------|-----------------|-----------------|-----------------|
| 8.1   | Type of drive control                                |       | inverter MOSFET | inverter MOSFET | inverter MOSFET | inverter MOSFET |
| 8.2   | Operating pressure for attachments                   | bar   | 183             | 183             | 183             | 183             |
| 8.3   | Oil volume for attachments                           | l/min | 42              | 42              | 42              | 42              |
| 8.4   | Sound level at the driver's ear according to EN12053 | dB(A) | 65,8            | 65,8            | 65,8            | 65,8            |

All data are based on table configuration. Other configurations may give other values.  
Truck performance and dimensions are nominal and subject to tolerances.  
Products and specifications are subject to change without notice.

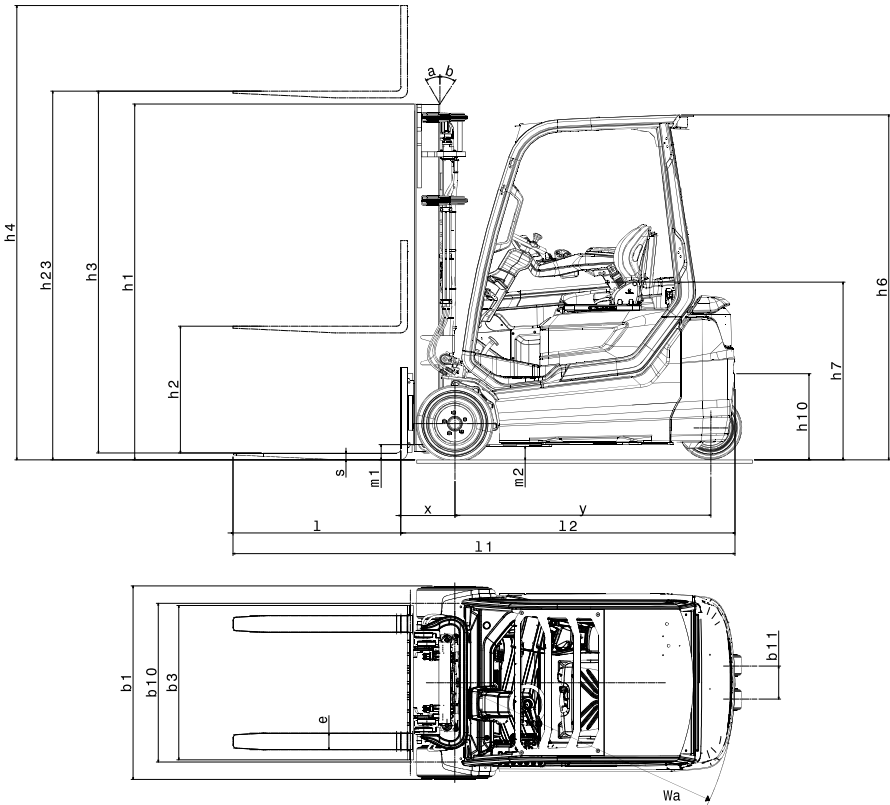
# Mast dimensions and rated capacities

| Model                |                                     | Duplex NFL (V)  |      |      |      |      |      |      |      | Duplex FFL (FV) |      |      |      |      |      |      |      | Duplex FFL (FW)-IMD |      |      |      |      |      |      |      | Triplex FFL (FSV) |      |      |      |      |      |      |      | Triplex FFL (FSW)-IMD |      |      |      |      |      |      |      |
|----------------------|-------------------------------------|-----------------|------|------|------|------|------|------|------|-----------------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|
| B3-15/B3-16/B3-16-LJ | Lift height                         | h <sub>23</sub> | 3035 | 3335 | 3535 | 3735 | 4035 | 4535 | 5035 | 3035            | 3335 | 3535 | 3735 | 3035 | 3335 | 3535 | 3735 | 4335                | 4535 | 4735 | 5035 | 5535 | 6035 | 4335 | 4535 | 4735              | 5035 | 5535 | 6035 | 6535 | 7035 | 7535 | 4335 | 4535                  | 4735 | 5035 | 5535 | 6035 | 6535 | 7035 | 7535 |
|                      | Lift                                | h <sub>3</sub>  | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 3000            | 3300 | 3500 | 3700 | 3000 | 3300 | 3500 | 3700 | 4300                | 4500 | 4700 | 5000 | 5500 | 6000 | 4300 | 4500 | 4700              | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 4300 | 4500                  | 4700 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 |
|                      | Height, mast lowered                | h <sub>1</sub>  | 1970 | 2120 | 2220 | 2380 | 2570 | 2820 | 3070 | 1970            | 2120 | 2220 | 2380 | 2000 | 2150 | 2250 | 2350 | 1970                | 2040 | 2120 | 2220 | 2380 | 2570 | 1980 | 2050 | 2150              | 2250 | 2450 | 2600 | 2800 | 3000 | 3200 | 1980 | 2050                  | 2150 | 2250 | 2450 | 2600 | 2800 | 3000 | 3200 |
|                      | Height, mast extended <sup>1)</sup> | h <sub>4</sub>  | 3570 | 3870 | 4070 | 4270 | 4570 | 5070 | 5570 | 3580            | 3880 | 4080 | 4280 | 3555 | 3855 | 4055 | 4255 | 4845                | 5045 | 5245 | 5545 | 6045 | 6545 | 4845 | 5045 | 5245              | 5545 | 6045 | 6545 | 7045 | 7545 | 8045 | 4845 | 5045                  | 5245 | 5545 | 6045 | 6545 | 7045 | 7545 | 8045 |
|                      | Height, mast extended <sup>2)</sup> | h <sub>4</sub>  | 4220 | 4520 | 4720 | 4920 | 5220 | 5270 | 6220 | 4220            | 4520 | 4720 | 4920 | 4220 | 4520 | 4720 | 4920 | 5520                | 5720 | 5920 | 6220 | 6720 | 7220 | 5520 | 5720 | 5920              | 6220 | 6720 | 7220 | 7720 | 8220 | 8720 | 5520 | 5720                  | 5920 | 6220 | 6720 | 7220 | 7720 | 8220 | 8720 |
|                      | Free lift, without load backrest    | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 1430            | 1580 | 1680 | 1840 | 1440 | 1590 | 1690 | 1790 | 1460                | 1530 | 1610 | 1710 | 1870 | 2060 | 1430 | 1500 | 1600              | 1700 | 1900 | 2050 | 2250 | 2450 | 2650 | 1430 | 1500                  | 1600 | 1700 | 1900 | 2050 | 2250 | 2450 | 2650 |
|                      | Free lift, with load backrest       | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 750             | 900  | 1000 | 1160 | 780  | 930  | 1030 | 1130 | 750                 | 820  | 900  | 1000 | 1160 | 1350 | 760  | 830  | 930               | 1030 | 1230 | 1380 | 1580 | 1780 | 1980 | 760  | 830                   | 930  | 1030 | 1230 | 1380 | 1580 | 1780 | 1980 |

- 1) Without load backrest  
2) With load backrest; Height of standard load backrest is 1220 mm.

| Pneumatic shaped cushion tyre |                            |     | Duplex NFL (V) |      |      |      |      |      |      |      | Duplex FFL (FV) |      |      |      | Duplex FFL (FW)-IMD |      |      |      | Triplex FFL (FSV) |      |      |      |      |      | Triplex FFL (FSW)-IMD |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------------------------------|----------------------------|-----|----------------|------|------|------|------|------|------|------|-----------------|------|------|------|---------------------|------|------|------|-------------------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| B3-15                         | Tilt range, forward        | deg | 5              | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5               | 5    | 5    | 5    | 5                   | 5    | 5    | 5    | 5                 | 5    | 5    | 5    | 5    | 5    | 5                     | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      |      |      |
|                               | Tilt range, backward       | deg | 7(5)           | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)            | 7(5) | 7(5) | 7(5) | 7(5)                | 7(5) | 7(5) | 7(5) | 7(5)              | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)                  | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) |      |      |      |      |
|                               | Load capacity at 500 mm LC | kg  | 1500           | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500 | 1500            | 1500 | 1500 | 1500 | 1500                | 1500 | 1500 | 1500 | 1500              | 1500 | 1500 | 1500 | 1450 | 1100 | 1500                  | 1500 | 1500 | 1500 | 1375 | 1300 | 900  | 700  | 525  | 1500 | 1500 | 1500 | 1500 | 1375 | 1300 | 900  | 700  | 525  | 1500 | 1500 | 1500 | 1500 |      |
| B3-16                         | Tilt range, forward        | deg | 5              | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5               | 5    | 5    | 5    | 5                   | 5    | 5    | 5    | 5                 | 5    | 5    | 5    | 5    | 5    | 5                     | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      |
|                               | Tilt range, backward       | deg | 7(5)           | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)            | 7(5) | 7(5) | 7(5) | 7(5)                | 7(5) | 7(5) | 7(5) | 7(5)              | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)                  | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) |      |      |      |      |
|                               | Load capacity at 500 mm LC | kg  | 1600           | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600            | 1600 | 1600 | 1600 | 1600                | 1600 | 1600 | 1600 | 1600              | 1600 | 1600 | 1600 | 1585 | 1450 | 950                   | 1600 | 1600 | 1600 | 1600 | 1510 | 1350 | 1050 | 750  | 600  | 1600 | 1600 | 1600 | 1600 | 1510 | 1350 | 1050 | 750  | 600  | 1600 | 1600 | 1600 | 1600 |
| B3-16L<br>B3-16-LJ            | Tilt range, forward        | deg | 5              | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5               | 5    | 5    | 5    | 5                   | 5    | 5    | 5    | 5                 | 5    | 5    | 5    | 5    | 5    | 5                     | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5    |      |      |      |
|                               | Tilt range, backward       | deg | 7(5)           | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)            | 7(5) | 7(5) | 7(5) | 7(5)                | 7(5) | 7(5) | 7(5) | 7(5)              | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)                  | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) |      |      |      |
|                               | Load capacity at 500 mm LC | kg  | 1600           | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1600            | 1600 | 1600 | 1600 | 1600                | 1600 | 1600 | 1600 | 1600              | 1600 | 1600 | 1600 | 1600 | 1200 | 1600                  | 1600 | 1600 | 1600 | 1600 | 1600 | 1600 | 1500 | 1175 | 875  | 650  | 1600 | 1600 | 1600 | 1600 | 1600 | 1500 | 1175 | 875  | 650  | 1600 | 1600 | 1600 |

Data in ( ) are for when "Cabin Series" is selected (minimum front windshield).



# Electric powered forklift 1.8 t

## IDENTIFICATION

|     |                                             |   |    |              |              |
|-----|---------------------------------------------|---|----|--------------|--------------|
| 1.1 | Manufacturer                                |   |    | CESAB        | CESAB        |
| 1.2 | Model                                       |   |    | B3-18        | B3-18L       |
| 1.3 | Drive                                       |   |    | Electric     | Electric     |
| 1.4 | Operator type                               |   |    | Rider seated | Rider seated |
| 1.5 | Load capacity/rated load                    | Q | kg | 1800         | 1800         |
| 1.6 | Load centre                                 | c | mm | 500          | 500          |
| 1.8 | Load distance, centre of drive axle to fork | x | mm | 317          | 317          |
| 1.9 | Wheelbase                                   | Y | mm | 1413         | 1521         |

## WEIGHT

|     |                                     |  |  |           |           |
|-----|-------------------------------------|--|--|-----------|-----------|
| 2.1 | Service weight                      |  |  | 3134      | 3109      |
| 2.2 | Axle load, with load, front/rear    |  |  | 4301/583  | 4351/558  |
| 2.3 | Axle load, without load, front/rear |  |  | 1540/1594 | 1584/1525 |

## TYRES

|     |                                                                       |                 |    |          |          |
|-----|-----------------------------------------------------------------------|-----------------|----|----------|----------|
| 3.1 | Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R) |                 |    | SE       | SE       |
| 3.2 | Tyre size, front                                                      |                 |    | 18x7-8   | 18x7-8   |
| 3.3 | Tyre size, rear                                                       |                 |    | 140/55-9 | 140/55-9 |
| 3.5 | Wheels, number front/rear (x = driven wheels)                         |                 |    | 2x/2     | 2x/2     |
| 3.6 | Track width, front                                                    | b <sub>10</sub> | mm | 905      | 905      |
| 3.7 | Track width, rear                                                     | b <sub>11</sub> | mm | 193      | 193      |

## DIMENSIONS

|      |                                             |                 |     |             |             |
|------|---------------------------------------------|-----------------|-----|-------------|-------------|
| 4.1  | Tilt of mast/fork carriage forward/backward | $\alpha/\beta$  | deg | 5/7         | 5/7         |
| 4.2  | Height, mast lowered                        | h <sub>1</sub>  | mm  | 2120        | 2120        |
| 4.3  | Free lift                                   | h <sub>2</sub>  | mm  | 115         | 115         |
| 4.4  | Lift                                        | h <sub>3</sub>  | mm  | 3300        | 3300        |
|      | Lift height                                 | h <sub>23</sub> | mm  | 3335        | 3335        |
| 4.5  | Height, mast extended                       | h <sub>4</sub>  | mm  | 3870        | 3870        |
| 4.7  | Height of overhead guard (cab)              | h <sub>6</sub>  | mm  | 2055        | 2055        |
| 4.8  | Seat height/stand height                    | h <sub>7</sub>  | mm  | 1065        | 1065        |
| 4.12 | Coupling height                             | h <sub>10</sub> | mm  | 550         | 550         |
| 4.19 | Overall length                              | l <sub>1</sub>  | mm  | 2880        | 2988        |
| 4.20 | Length to face of forks                     | l <sub>2</sub>  | mm  | 1880        | 1988        |
| 4.21 | Overall width                               | b <sub>1</sub>  | mm  | 1060        | 1060        |
| 4.22 | Fork dimensions                             | s/e/l           | mm  | 35/100/1000 | 35/100/1000 |
| 4.23 | Fork carriage DIN 15 173, class/type A, B   |                 |     | IIA         | IIA         |
| 4.24 | Fork-carriage width                         | b <sub>3</sub>  | mm  | 920         | 920         |
| 4.31 | Ground clearance, with load, below mast     | m <sub>1</sub>  | mm  | 80          | 80          |
| 4.32 | Ground clearance, centre of wheelbase       | m <sub>2</sub>  | mm  | 81          | 81          |
| 4.33 | Aisle width for pallets 1000x1200 crossways | A <sub>st</sub> | mm  | 3210        | 3318        |
| 4.34 | Aisle width for pallets 800x1200 lengthways | A <sub>st</sub> | mm  | 3331        | 3440        |
| 4.35 | Turning radius                              | W <sub>a</sub>  | mm  | 1563        | 1671        |
| 4.36 | Internal turning radius                     | b <sub>13</sub> | mm  | 0           | 0           |

## PERFORMANCE DATA

|      |                                                      |      |                       |                       |
|------|------------------------------------------------------|------|-----------------------|-----------------------|
| 5.1  | Travel speed, with/without load                      | km/h | 16/16                 | 16/16                 |
| 5.2  | Lift speed, with/without load Standard   Performance | m/s  | 0,42/0,61   0,52/0,75 | 0,42/0,61   0,52/0,75 |
| 5.3  | Lowering speed, with/without load                    | m/s  | 0,58/0,57             | 0,58/0,57             |
| 5.5  | Drawbar pull, with/without load                      | N    | 7016                  | 7016                  |
| 5.6  | Max. drawbar pull, with/without load                 | N    | 12325                 | 12325                 |
| 5.7  | Gradeability, with/without load                      | %    | 15,8/26,6             | 15,9/26,8             |
| 5.8  | Max. gradeability, with/without load                 | %    | 22,5/38,2             | 22,6/38,5             |
| 5.9  | Acceleration time, with/without load                 | s    | 4,7/4,3               | 4,7/4,3               |
| 5.10 | Service brake                                        |      | Hydraulic             | Hydraulic             |

| ELECTRIC MOTOR |                                                  |       |                |                |
|----------------|--------------------------------------------------|-------|----------------|----------------|
| 6.1            | Drive motor rating S2 60 min                     | kW    | 6,6x2          | 6,6x2          |
| 6.2            | Lift motor rating S3 15% Standard   Performance  | kW    | 11   12,5      | 11   12,5      |
| 6.3            | Battery acc. to DIN 43 531/35/36 A, B, C, no     |       | 43 531A        | 43 531A        |
| 6.4            | Battery voltage, nominal capacity K <sub>s</sub> | V/Ah  | 48/525-575-625 | 48/630-690-750 |
| 6.5            | Battery weight                                   | kg    | 856            | 1013           |
| 6.6            | Energy consumption acc. to EN16796 Standard      | kWh/h | 3,8            | 3,8            |
| 6.6            | Energy consumption acc. to EN16796 Performance   | kWh/h | 3,6            | 3,6            |

| OTHER |                                                       |       |                 |                 |
|-------|-------------------------------------------------------|-------|-----------------|-----------------|
| 8.1   | Type of drive control                                 |       | inverter MOSFET | inverter MOSFET |
| 8.2   | Operating pressure for attachments                    | bar   | 183             | 183             |
| 8.3   | Oil volume for attachments                            | l/min | 42              | 42              |
| 8.4   | Sound level at the driver's ear according to EN 12053 | dB(A) | 65,8            | 65,8            |

All data are based on table configuration. Other configurations may give other values.  
 Truck performance and dimensions are nominal and subject to tolerances.  
 Products and specifications are subject to change without notice.

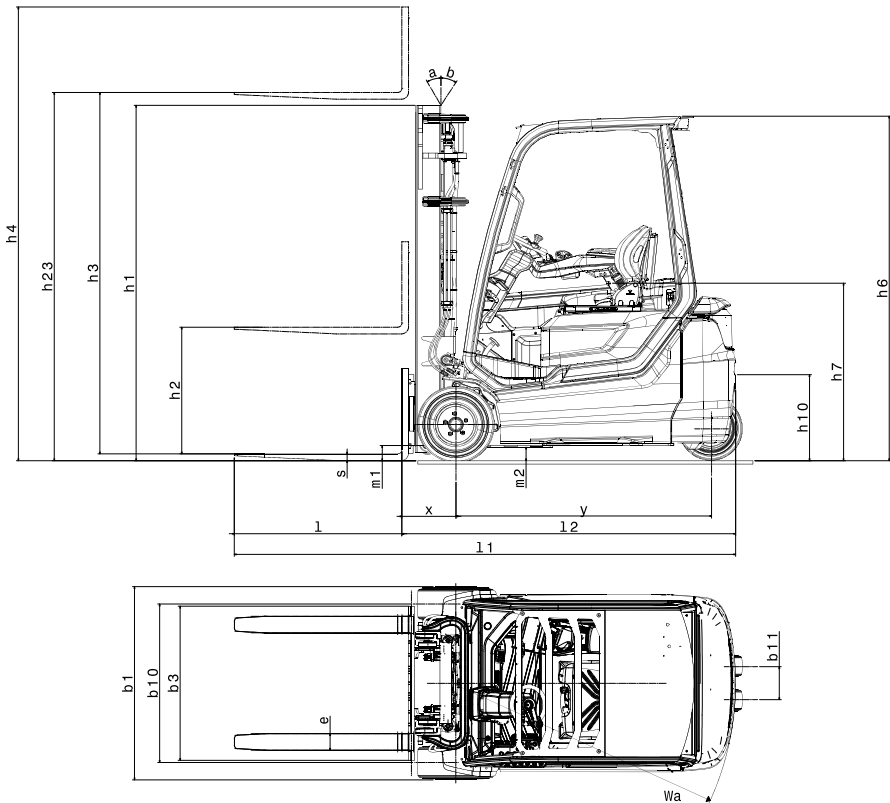
# Mast dimensions and rated capacities

| Model        |                                     | Duplex NFL (V)  |      |      |      |      |      |      |      | Duplex FFL (FV) |      |      |      |      |      |      |      | Duplex FFL (FW)-IMD |      |      |      |      |      |      |      | Triplex FFL (FSV) |      |      |      |      |      |      |      | Triplex FFL (FSW)-IMD |      |      |      |      |      |      |      |
|--------------|-------------------------------------|-----------------|------|------|------|------|------|------|------|-----------------|------|------|------|------|------|------|------|---------------------|------|------|------|------|------|------|------|-------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|
| B3-18/B3-18L | Lift height                         | h <sub>23</sub> | 3035 | 3335 | 3535 | 3735 | 4035 | 4535 | 5035 | 3035            | 3335 | 3535 | 3735 | 3035 | 3335 | 3535 | 3735 | 4335                | 4535 | 4735 | 5035 | 5535 | 6035 | 4335 | 4535 | 4735              | 5035 | 5535 | 6035 | 6535 | 7035 | 7535 | 4335 | 4535                  | 4735 | 5035 | 5535 | 6035 | 6535 | 7035 | 7535 |
|              | Lift                                | h <sub>3</sub>  | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 3000            | 3300 | 3500 | 3700 | 3000 | 3300 | 3500 | 3700 | 4300                | 4500 | 4700 | 5000 | 5500 | 6000 | 4300 | 4500 | 4700              | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 | 4300 | 4500                  | 4700 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 |
|              | Height, mast lowered                | h <sub>1</sub>  | 1970 | 2120 | 2220 | 2380 | 2570 | 2820 | 3070 | 1970            | 2120 | 2220 | 2380 | 2000 | 2150 | 2250 | 2350 | 1970                | 2040 | 2120 | 2220 | 2380 | 2570 | 1980 | 2050 | 2150              | 2250 | 2450 | 2600 | 2800 | 3000 | 3200 | 1980 | 2050                  | 2150 | 2250 | 2450 | 2600 | 2800 | 3000 | 3200 |
|              | Height, mast extended <sup>1)</sup> | h <sub>4</sub>  | 3570 | 3870 | 4070 | 4270 | 4570 | 5070 | 5570 | 3580            | 3880 | 4080 | 4280 | 3555 | 3855 | 4055 | 4255 | 4845                | 5045 | 5245 | 5545 | 6045 | 6545 | 4845 | 5045 | 5245              | 5545 | 6045 | 6545 | 7045 | 7545 | 8045 | 4845 | 5045                  | 5245 | 5545 | 6045 | 6545 | 7045 | 7545 | 8045 |
|              | Height, mast extended <sup>2)</sup> | h <sub>4</sub>  | 4220 | 4520 | 4720 | 4920 | 5220 | 5270 | 6220 | 4220            | 4520 | 4720 | 4920 | 4220 | 4520 | 4720 | 4920 | 5520                | 5720 | 5920 | 6220 | 6720 | 7220 | 5520 | 5720 | 5920              | 6220 | 6720 | 7220 | 7720 | 8220 | 8720 | 5520 | 5720                  | 5920 | 6220 | 6720 | 7220 | 7720 | 8220 | 8720 |
|              | Free lift, without load backrest    | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 1430            | 1580 | 1680 | 1840 | 1440 | 1590 | 1690 | 1790 | 1460                | 1530 | 1610 | 1710 | 1870 | 2060 | 1430 | 1500 | 1600              | 1700 | 1900 | 2050 | 2250 | 2450 | 2650 | 1430 | 1500                  | 1600 | 1700 | 1900 | 2050 | 2250 | 2450 | 2650 |
|              | Free lift, with load backrest       | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 1430            | 1580 | 1680 | 1840 | 1440 | 1590 | 1690 | 1790 | 1460                | 1530 | 1610 | 1710 | 1870 | 2060 | 1460 | 1530 | 1610              | 1710 | 1870 | 2060 | 2250 | 2450 | 2650 | 1460 | 1530                  | 1610 | 1710 | 1870 | 2060 | 2250 | 2450 | 2650 |

- 1) Without load backrest
- 2) With load backrest; Height of standard load backrest is 1220 mm.

| Pneumatic shaped cushion tyre |                     |     | Duplex NFL (V) |   |   |   |   |   |   |   | Duplex FFL (FV) |   |   |   | Duplex FFL (FW)-IMD |   |   |   | Triplex FFL (FSV) |   |   |   |   |   |   |   | Triplex FFL (FSW)-IMD |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|-------------------------------|---------------------|-----|----------------|---|---|---|---|---|---|---|-----------------|---|---|---|---------------------|---|---|---|-------------------|---|---|---|---|---|---|---|-----------------------|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| B3-18                         | Tilt range, forward | deg | 5              | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5               | 5 | 5 | 5 | 5                   | 5 | 5 | 5 | 5                 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5                     | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 |

Data in ( ) are for when "Cabin Series" is selected (minimum front windshield).



# Electric powered forklift 2.0 t

## IDENTIFICATION

|     |                                             |   |    |              |              |
|-----|---------------------------------------------|---|----|--------------|--------------|
| 1.1 | Manufacturer                                |   |    | CESAB        | CESAB        |
| 1.2 | Model                                       |   |    | B3-20        | B3-20-Li     |
| 1.3 | Drive                                       |   |    | Electric     | Electric     |
| 1.4 | Operator type                               |   |    | Rider seated | Rider seated |
| 1.5 | Load capacity/rated load                    | Q | kg | 2000         | 2000         |
| 1.6 | Load centre                                 | c | mm | 500          | 500          |
| 1.8 | Load distance, centre of drive axle to fork | x | mm | 317          | 317          |
| 1.9 | Wheelbase                                   | Y | mm | 1521         | 1521         |

## WEIGHT

|     |                                     |  |  |           |           |
|-----|-------------------------------------|--|--|-----------|-----------|
| 2.1 | Service weight                      |  |  | 3312      | 3095      |
| 2.2 | Axle load, with load, front/rear    |  |  | 4715/597  | 4478/617  |
| 2.3 | Axle load, without load, front/rear |  |  | 1640/1672 | 1372/1723 |

## TYRES

|     |                                                                       |                 |    |           |           |
|-----|-----------------------------------------------------------------------|-----------------|----|-----------|-----------|
| 3.1 | Tyre - pneumatic (P), pneumatic shaped cushion (SE), solid rubber (R) |                 |    | SE        | SE        |
| 3.2 | Tyre size, front                                                      |                 |    | 200/50-10 | 200/50-10 |
| 3.3 | Tyre size, rear                                                       |                 |    | 140/55-9  | 140/55-9  |
| 3.5 | Wheels, number front/rear (x = driven wheels)                         |                 |    | 2x/2      | 2x/2      |
| 3.6 | Track width, front                                                    | b <sub>10</sub> | mm | 946       | 946       |
| 3.7 | Track width, rear                                                     | b <sub>11</sub> | mm | 193       | 193       |

## DIMENSIONS

|      |                                             |                 |     |             |             |
|------|---------------------------------------------|-----------------|-----|-------------|-------------|
| 4.1  | Tilt of mast/fork carriage forward/backward | $\alpha/\beta$  | deg | 5/7         | 5/7         |
| 4.2  | Height, mast lowered                        | h <sub>1</sub>  | mm  | 2120        | 2120        |
| 4.3  | Free lift                                   | h <sub>2</sub>  | mm  | 115         | 115         |
| 4.4  | Lift                                        | h <sub>3</sub>  | mm  | 3300        | 3300        |
|      | Lift height                                 | h <sub>23</sub> | mm  | 3335        | 3335        |
| 4.5  | Height, mast extended                       | h <sub>4</sub>  | mm  | 3870        | 3870        |
| 4.7  | Height of overhead guard (cab)              | h <sub>6</sub>  | mm  | 2055        | 2055        |
| 4.8  | Seat height/stand height                    | h <sub>7</sub>  | mm  | 1065        | 1065        |
| 4.12 | Coupling height                             | h <sub>10</sub> | mm  | 550         | 550         |
| 4.19 | Overall length                              | l <sub>1</sub>  | mm  | 2988        | 2988        |
| 4.20 | Length to face of forks                     | l <sub>2</sub>  | mm  | 1988        | 1988        |
| 4.21 | Overall width                               | b <sub>1</sub>  | mm  | 1152        | 1152        |
| 4.22 | Fork dimensions                             | s/e/l           | mm  | 35/120/1000 | 35/120/1000 |
| 4.23 | Fork carriage DIN 15 173, class/type A, B   |                 |     | IIA         | IIA         |
| 4.24 | Fork-carriage width                         | b <sub>3</sub>  | mm  | 920         | 920         |
| 4.31 | Ground clearance, with load, below mast     | m <sub>1</sub>  | mm  | 90          | 90          |
| 4.32 | Ground clearance, centre of wheelbase       | m <sub>2</sub>  | mm  | 81          | 93          |
| 4.33 | Aisle width for pallets 1000x1200 crossways | A <sub>st</sub> | mm  | 3318        | 3318        |
| 4.34 | Aisle width for pallets 800x1200 lengthways | A <sub>st</sub> | mm  | 3440        | 3440        |
| 4.35 | Turning radius                              | W <sub>a</sub>  | mm  | 1671        | 1671        |
| 4.36 | Internal turning radius                     | b <sub>13</sub> | mm  | 0           | 0           |

## PERFORMANCE DATA

|      |                                                      |      |                       |                       |
|------|------------------------------------------------------|------|-----------------------|-----------------------|
| 5.1  | Travel speed, with/without load                      | km/h | 16/16                 | 16/16                 |
| 5.2  | Lift speed, with/without load Standard   Performance | m/s  | 0,38/0,54   0,44/0,64 | 0,38/0,54   0,44/0,64 |
| 5.3  | Lowering speed, with/without load                    | m/s  | 0,52/0,5              | 0,52/0,5              |
| 5.5  | Drawbar pull, with/without load                      | N    | 6757                  | 7410                  |
| 5.6  | Max. drawbar pull, with/without load                 | N    | 11872                 | 13017                 |
| 5.7  | Gradeability, with/without load                      | %    | 14/24,1               | 16,4/29,2             |
| 5.8  | Max. gradeability, with/without load                 | %    | 19,9/34,4             | 23,3/35,4             |
| 5.9  | Acceleration time, with/without load                 | s    | 4,7/4,3               | 4,7/4,3               |
| 5.10 | Service brake                                        |      | Hydraulic             | Hydraulic             |

## ELECTRIC MOTOR

|     |                                                  |       |                |            |
|-----|--------------------------------------------------|-------|----------------|------------|
| 6.1 | Drive motor rating S2 60 min                     | kW    | 6,6 x 2        | 6,6 x 2    |
| 6.2 | Lift motor rating S3 15% Standard   Performance  | kW    | 11   12,5      | 11   12,5  |
| 6.3 | Battery acc. to DIN 43 531/35/36 A, B, C, no     |       | 43 531A        | no         |
| 6.4 | Battery voltage, nominal capacity K <sub>s</sub> | V/Ah  | 48/630-690-750 | 48/300-420 |
| 6.5 | Battery weight                                   | kg    | 1013           | 240        |
| 6.6 | Energy consumption acc. to EN16796 Standard      | kWh/h | 3,9            | 3,8        |
| 6.6 | Energy consumption acc. to EN16796 Performance   | kWh/h | 3,7            | 3,7        |

## OTHER

|     |                                                       |       |                 |                 |
|-----|-------------------------------------------------------|-------|-----------------|-----------------|
| 8.1 | Type of drive control                                 |       | inverter MOSFET | inverter MOSFET |
| 8.2 | Operating pressure for attachments                    | bar   | 183             | 183             |
| 8.3 | Oil volume for attachments                            | l/min | 42              | 42              |
| 8.4 | Sound level at the driver's ear according to EN 12053 | dB(A) | 65,8            | 65,8            |

All data are based on table configuration. Other configurations may give other values.  
Truck performance and dimensions are nominal and subject to tolerances.  
Products and specifications are subject to change without notice.

# Mast dimensions and rated capacities

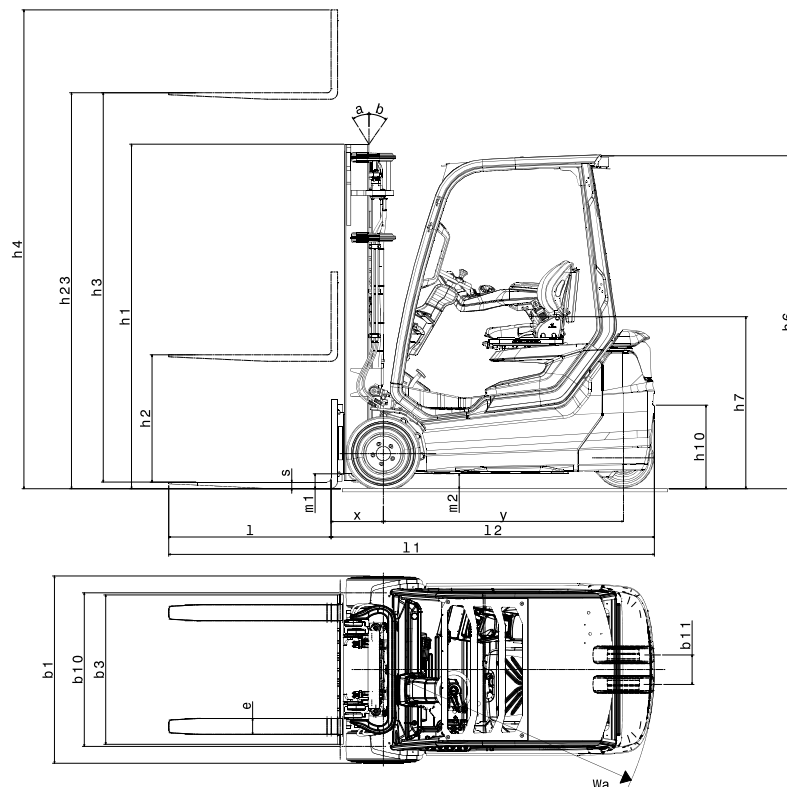
| Model          |                                     | Duplex NFL (V)  |      |      |      |      |      |      |      | Duplex FFL (FV) |      |      |      | Duplex FFL (FW)-IMD |      |      |      | Triplex FFL (FSV) |      |      |      |      |      |      |      | Triplex FFL (FSW)-IMD |      |      |      |      |      |      |      |
|----------------|-------------------------------------|-----------------|------|------|------|------|------|------|------|-----------------|------|------|------|---------------------|------|------|------|-------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|------|------|------|
| B3-20/B3-20-Li | Lift height                         | h <sub>23</sub> | 3035 | 3335 | 3535 | 3735 | 4035 | 4535 | 5035 | 3035            | 3335 | 3535 | 3735 | 3035                | 3335 | 3535 | 3735 | 4335              | 4535 | 4735 | 5035 | 5535 | 6035 | 6035 | 4335 | 4535                  | 4735 | 5035 | 5535 | 6035 | 6535 | 7035 | 7535 |
|                | Lift                                | h <sub>3</sub>  | 3000 | 3300 | 3500 | 3700 | 4000 | 4500 | 5000 | 3000            | 3300 | 3500 | 3700 | 3000                | 3300 | 3500 | 3700 | 4300              | 4500 | 4700 | 5000 | 5500 | 6000 | 6000 | 4300 | 4500                  | 4700 | 5000 | 5500 | 6000 | 6500 | 7000 | 7500 |
|                | Height, mast lowered                | h <sub>1</sub>  | 1970 | 2120 | 2220 | 2380 | 2570 | 2820 | 3070 | 1970            | 2120 | 2220 | 2380 | 2000                | 2150 | 2250 | 2350 | 1970              | 2040 | 2120 | 2220 | 2380 | 2570 | 2570 | 1980 | 2050                  | 2150 | 2250 | 2450 | 2600 | 2800 | 3000 | 3200 |
|                | Height, mast extended <sup>1)</sup> | h <sub>4</sub>  | 3570 | 3870 | 4070 | 4270 | 4570 | 5070 | 5570 | 3580            | 3880 | 4080 | 4280 | 3555                | 3855 | 4055 | 4255 | 4845              | 5045 | 5245 | 5545 | 6045 | 6545 | 6545 | 4845 | 5045                  | 5245 | 5545 | 6045 | 6545 | 7045 | 7545 | 8045 |
|                | Height, mast extended <sup>2)</sup> | h <sub>4</sub>  | 4220 | 4520 | 4720 | 4920 | 5220 | 5270 | 6220 | 4220            | 4520 | 4720 | 4920 | 4220                | 4520 | 4720 | 4920 | 5520              | 5720 | 5920 | 6220 | 6720 | 7220 | 7220 | 5520 | 5720                  | 5920 | 6220 | 6720 | 7220 | 7720 | 8220 | 8720 |
|                | Free lift, without load backrest    | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 1430            | 1580 | 1680 | 1840 | 1440                | 1590 | 1690 | 1790 | 1460              | 1530 | 1610 | 1710 | 1870 | 2060 | 2060 | 1430 | 1500                  | 1600 | 1700 | 1900 | 2050 | 2250 | 2450 | 2650 |
|                | Free lift, with load backrest       | h <sub>2</sub>  | 80   | 80   | 80   | 80   | 80   | 80   | 80   | 750             | 900  | 1000 | 1160 | 780                 | 930  | 1030 | 1130 | 750               | 820  | 900  | 1000 | 1160 | 1350 | 1350 | 760  | 830                   | 930  | 1030 | 1230 | 1380 | 1580 | 1780 | 1980 |

1) Without load backrest

2) With load backrest; Height of standard load backrest is 1220 mm.

| Pneumatic shaped cushion tyre |                            |     | Duplex NFL (V) |      |      |      |      |      |      |      | Duplex FFL (FV) |      |      |      | Duplex FFL (FW)-IMD |      |      |      | Triplex FFL (FSV) |      |      |      |      |      |      |      | Triplex FFL (FSW)-IMD |      |      |      |      |     |  |  |
|-------------------------------|----------------------------|-----|----------------|------|------|------|------|------|------|------|-----------------|------|------|------|---------------------|------|------|------|-------------------|------|------|------|------|------|------|------|-----------------------|------|------|------|------|-----|--|--|
| B3-20<br>B3-20-Li             | Tilt range, forward        | deg | 5              | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5               | 5    | 5    | 5    | 5                   | 5    | 5    | 5    | 5                 | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5                     | 5    | 5    | 5    | 5    | 5   |  |  |
|                               | Tilt range, backward       | deg | 7(5)           | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)            | 7(5) | 7(5) | 7(5) | 7(5)                | 7(5) | 7(5) | 7(5) | 7(5)              | 7(5) | 5    | 5    | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)                  | 5    | 5    | 5    | 5    | 5   |  |  |
|                               | Load capacity at 500 mm LC | kg  | 2000           | 2000 | 2000 | 2000 | 2000 | 2000 | 1900 | 2000 | 2000            | 2000 | 2000 | 2000 | 2000                | 2000 | 2000 | 1950 | 1950              | 1900 | 1800 | 1650 | 1525 | 1950 | 1950 | 1900 | 1900                  | 1900 | 1800 | 1250 | 950  | 750 |  |  |
| B3-20-Li                      | Tilt range, forward        | deg | 5              | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5               | 5    | 5    | 5    | 5                   | 5    | 5    | 5    | 5                 | 5    | 5    | 5    | 5    | 5    | 5    | 5    | 5                     | 5    | 5    | 5    | 5    | 5   |  |  |
|                               | Tilt range, backward       | deg | 7(5)           | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)            | 7(5) | 7(5) | 7(5) | 7(5)                | 7(5) | 7(5) | 7(5) | 7(5)              | 7(5) | 5    | 5    | 7(5) | 7(5) | 7(5) | 7(5) | 7(5)                  | 5    | 5    | 5    | 5    | 5   |  |  |
|                               | Load capacity at 500 mm LC | kg  | 2000           | 2000 | 2000 | 2000 | 2000 | 2000 | 1900 | 2000 | 2000            | 2000 | 2000 | 2000 | 2000                | 2000 | 2000 | 1950 | 1950              | 1900 | 1800 | 1650 | 1530 | 1950 | 1950 | 1900 | 1900                  | 1900 | 1800 | 1370 | 1050 | 750 |  |  |

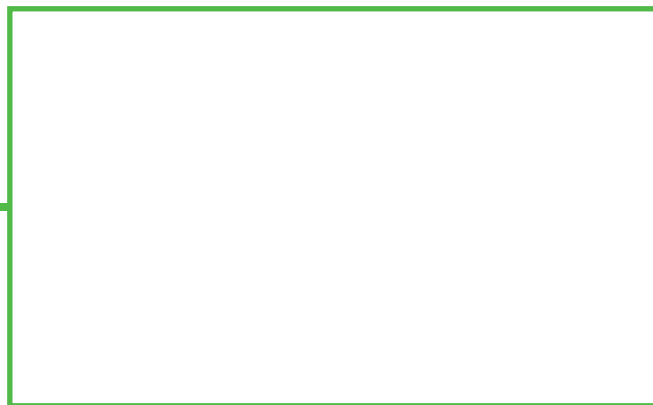
Data in ( ) are for when "Cabin Series" is selected (minimum front windshield).



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# Standard equipments

- Cesab ISD (Intelligent Stability Design)
- StaminaTune from Cesab
- Wet disc brakes
- Automatic parking brake
- Electric new design steering and telescopic column
- Operator presence sensing system (OPS)
- ORS seat (Operator Restraint System)
- Seat mounted minilevers
- Wide visible mast (V3300 mm)
- Long forks (length:1000 mm)
- Long forkbar (length: 920 mm)
- 3 way valves (A400)
- Narrow brake pedal
- Pneumatic shaped cushion tyres
- Digital Multifunction display with wheel indicator
- Adjustable tilt steering column
- Full floating driver's compartment
- Shockless landing lift
- Seatbelt lock recognition linked with OPS
- Orange seatbelt
- Battery door opening sensor (not available for Li-models)
- Remaining operating time indicator on main display



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