

# CESAB R200 1.4 - 1.6 tonne

Reach Trucks



Truck Specifications



**CESAB**

## CESAB R214 - R216 Truck Specifications

| CHARACTERISTICS |   |                        |              |              |
|-----------------|---|------------------------|--------------|--------------|
| 1.1             | Manufacturer  |                        | CESAB        | CESAB        |
| 1.2             | Model   |                        | R214         | R216         |
| 1.3             | Drive   |                        | Electric     | Electric     |
| 1.4             | Operator type   |                        | Seated       | Seated       |
| 1.5             | Load capacity/rated load                                    | Q [kg]                 | 1400         | 1600         |
| 1.6             | Load centre   | c [mm]                 | 600          | 600          |
| 1.8             | Load distance, centre of support arm wheel to face of forks | x [mm]                 | 315          | 207          |
| 1.9             | Wheelbase   | y [mm]                 | 1434         | 1434         |
| WEIGHT          |   |                        |              |              |
| 2.1             | Service weight excluding battery                            | [kg]                   | 2040         | 2575         |
| 2.2             | Max. axle load, without load, drive/support arm wheel       | [kg]                   | 1690/1640    | 2003/2118    |
| 2.3             | Max. axle load, with load, drive/support arm wheel          | [kg]                   | 1300/3930    | 1580/4685    |
| WHEELS          |   |                        |              |              |
| 3.1             | Drive/support arm wheel                                     |                        | Polyurethane | Polyurethane |
| 3.2             | Wheel size, front   | [mm]                   | Ø310         | Ø310         |
| 3.3             | Wheel size, rear  | [mm]                   | Ø285         | Ø285         |
| 3.5             | Wheels, number front/rear (x=driven wheels)                 |                        | 1x/2         | 1x/2         |
| 3.7             | Track width, rear   | b <sub>11</sub> [mm]   | 968          | 968          |
| DIMENSIONS      |   |                        |              |              |
| 4.1             | Tilt of fork, forward/backward                              | $\alpha / \beta$ [deg] | 4°/-2° *     | 4°/-2°*      |
| 4.2             | Height, mast lowered  | h <sub>1</sub> [mm]    | 2390*        | 3564*        |
| 4.3             | Free lift   | h <sub>2</sub> [mm]    | 1749*        | 2923*        |
| 4.4             | Lift  | h <sub>3</sub> [mm]    | 5360*        | 8460*        |
|                 | Lift height   | h <sub>23</sub> [mm]   | 5400*        | 8500*        |
| 4.5             | Height, mast extended                                       | h <sub>4</sub> [mm]    | 6040*        | 9140*        |
| 4.7             | Height of overhead guard (cab)                              | h <sub>6</sub> [mm]    | 2166         | 2166         |
| 4.8             | Seat height   | h <sub>7</sub> [mm]    | 1060         | 1060         |
| 4.10            | Height of support arms                                      | h <sub>8</sub> [mm]    | 262          | 262          |
| 4.15            | Height of lowered forks                                     | h <sub>13</sub> [mm]   | 40           | 40           |
| 4.19            | Overall length  | l <sub>1</sub> [mm]    | 2484         | 2592         |
| 4.20            | Length to face of forks                                     | l <sub>2</sub> [mm]    | 1334         | 1442         |
| 4.21            | Overall width   | b <sub>1</sub> [mm]    | 1120         | 1120         |
| 4.22            | Fork dimensions   | s/e/l [mm]             | 40/100/1150* | 40/100/1150* |
| 4.23            | Fork carriage ISO 2328, class/type A, B                     |                        | II A         | II A         |
| 4.25            | Width over forks  | b <sub>5</sub> [mm]    | 250-600*     | 250-600      |
| 4.26            | Distance between support arms                               | b <sub>4</sub> [mm]    | 880          | 880          |
| 4.28            | Reach distance  | l <sub>4</sub> [mm]    | 576          | 495          |
| 4.31            | Ground clearance, with load, below mast 1)                  | m <sub>1</sub> [mm]    | 70           | 70           |
| 4.32            | Ground clearance, centre of wheelbase 1)                    | m <sub>2</sub> [mm]    | 70           | 70           |
| 4.33            | Aisle width for pallets 1000 x 1200 crossways               | A <sub>st</sub> [mm]   | 2760         | 2843         |
| 4.34            | Aisle width for pallets 800 x 1200 lengthways               | A <sub>st</sub> [mm]   | 2820         | 2920         |
| 4.35            | Turning radius  | W <sub>a</sub> [mm]    | 1649         | 1649         |
| 4.37            | Length across support arms                                  | l <sub>7</sub> [mm]    | 1808         | 1808         |
| PERFORMANCE     |   |                        |              |              |
| 5.1             | Travel speed, drive direction with/without load             | [km/h]                 | 10.0/11.2    | 10.0/11.2    |
|                 | Travel speed, fork direction with/without load              | [km/h]                 | 7.5/9        | 7.5/9        |
| 5.2             | Lift speed, with/without load                               | [m/s]                  | 0.27/0.42    | 0.25/0.42    |
| 5.3             | Lowering speed, with/without load                           | [m/s]                  | 0.50/0.44    | 0.50/0.44    |
| 5.4             | Reach speed, with/without load                              | [m/s]                  | 0.15/0.16    | 0.15/0.16    |
| 5.8             | Max. gradeability, with/without load 2)                     | [%]                    | 10/15        | 10/15        |
| 5.10            | Service brake   |                        | Electric     | Electric     |
| ELECTRIC MOTOR  |   |                        |              |              |
| 6.1             | Drive motor rating S2 60 min                                | [kW]                   | 7.5          | 7.5          |
| 6.2             | Lift motor rating S3 15%                                    | [kW]                   | 7.4          | 7.4          |
| 6.4             | Battery voltage, nominal capacity K5                        | [V/Ah]                 | 48/465*      | 48/620*      |
| 6.5             | Battery weight, min.  | [kg]                   | 610*         | 780*         |
| 6.6             | Energy consumption acc to VDI cycle 3)                      | [kWh/h]                |              |              |
| OTHER           |   |                        |              |              |
| 8.1             | Type of drive control                                       |                        | Variable AC  | Variable AC  |
| 8.4             | Sound level at the driver's ear according to EN 12 053      | [dB(A)]                | <70          | <70          |

1) 15 mm under studs

2) Measured according to company standard

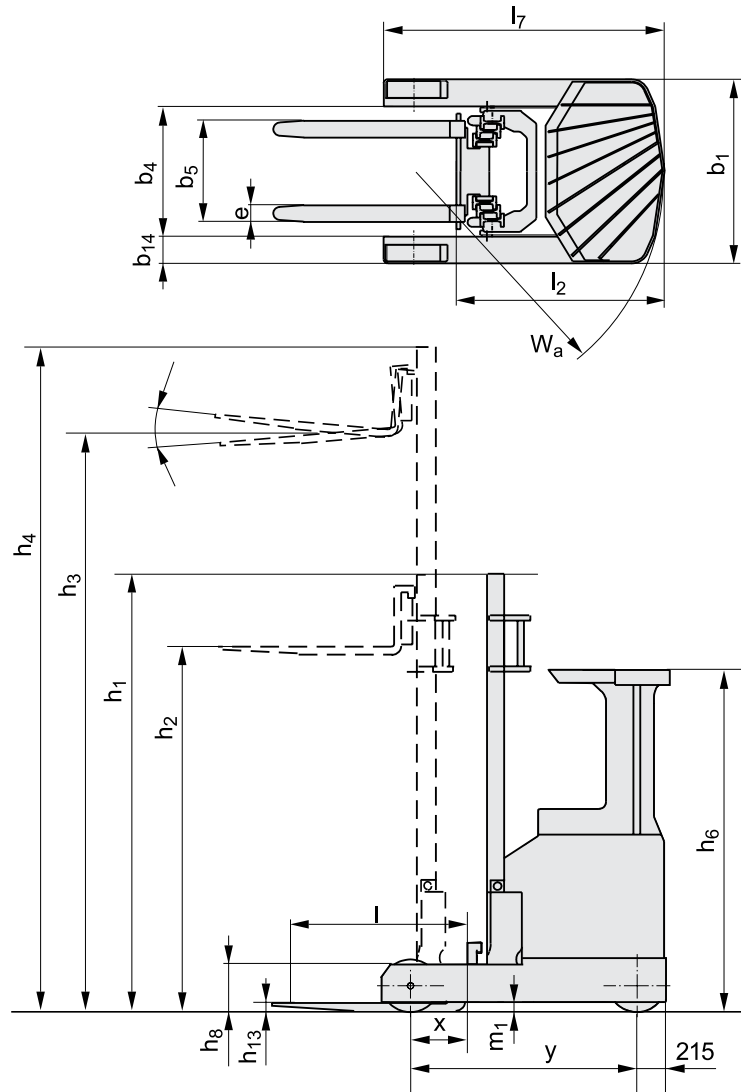
3) Contact your supplier for information

\*) Further alternatives are available and will produce other values

Note: All data are based on table configuration. R214: h23 = 5400 mm with sideshift and 340 mm battery compartment. R216: h23 = 8500 mm with sideshift and 430 mm battery compartment. 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.



## CESAB R214 - R216 Dimensional Drawings



## Battery compartments

| DIMENSIONS  |                      | R214   |        |        | R216   |        |        |
|---|----------------------|--------|--------|--------|--------|--------|--------|
| R200 series   |                      |        |        |        |        |        |        |
| Battery compartment depth   | [mm]                 | 275    | 340    | 430    | 275    | 340    | 430    |
| 1.8 Load distance, centre of support arm wheel to face of forks * | x [mm]               | 380    | 315    | 225    | 362    | 297    | 207    |
| 4.20 Length to face of forks *                                    | l <sub>2</sub> [mm]  | 1269   | 1334   | 1424   | 1287   | 1352   | 1442   |
| 4.33 Aisle width for pallets 1000x1200 crossways *                | A <sub>st</sub> [mm] | 2712   | 2760   | 2829   | 2725   | 2773   | 2843   |
| 4.34 Aisle width for pallets 800x1200 lengthways *                | A <sub>st</sub> [mm] | 2761   | 2820   | 2903   | 2778   | 2837   | 2920   |
| 6.4 Battery voltage, nominal capacity K5                          | [V/Ah]               | 48/310 | 48/465 | 48/620 | 48/310 | 48/465 | 48/620 |
| 6.5 Battery weight, min.  | [kg]                 | 510    | 610    | 780    | 510    | 610    | 780    |

\* = including sideshift

## Mast Specifications

| DIMENSIONS  |                       | Triplex Freelift    |      |      |      |      |      |      |      |      |      |
|-------------|-----------------------|---------------------|------|------|------|------|------|------|------|------|------|
| R200 series |                       |                     |      |      |      |      |      |      |      |      |      |
| Lift height | h <sub>23</sub> [mm]  | 4400                | 4800 | 5400 | 5700 | 6300 | 6750 | 7000 | 7500 | 8000 | 8500 |
| Lift        | h <sub>3</sub> [mm]   | 4360                | 4760 | 5360 | 5660 | 6260 | 6710 | 6960 | 7460 | 7960 | 8460 |
| R214        | Height, mast lowered  | h <sub>1</sub> [mm] | 2057 | 2190 | 2390 | 2490 | 2690 | —    | —    | —    | —    |
|             | Free lift             | h <sub>2</sub> [mm] | 1416 | 1549 | 1749 | 1849 | 2049 | —    | —    | —    | —    |
|             | Height, mast extended | h <sub>4</sub> [mm] | 5040 | 5440 | 6040 | 6340 | 6940 | —    | —    | —    | —    |
| R216        | Height, mast lowered  | h <sub>1</sub> [mm] | 2057 | 2190 | 2390 | 2490 | 2732 | 2981 | 3064 | 3231 | 3398 |
|             | Free lift             | h <sub>2</sub> [mm] | 1416 | 1549 | 1749 | 1849 | 2091 | 2340 | 2423 | 2590 | 2757 |
|             | Height, mast extended | h <sub>4</sub> [mm] | 5040 | 5440 | 6040 | 6340 | 6940 | 7390 | 7640 | 8140 | 8640 |

\* = including sideshift

