

# Reach truck 1.4 - 2.5 ton



## BT reflex

*R & E-series*

*Coldstore*

RRE140HC/HEC/  
HCC/HECC

RRE160HC/HEC/  
HCC/HECC

RRE180HC/HEC/  
HCC/HECC

RRE200HC/HEC/  
HCC/HECC

RRE250HC/HEC/  
HCC/HECC



**TOYOTA**

MATERIAL HANDLING

# Reach truck, Coldstore open cabin

|                  |        |                                                                 |                 |       |                       |                       |                       |                       |                       |
|------------------|--------|-----------------------------------------------------------------|-----------------|-------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| Identification   | 1.1    | Manufacturer                                                    |                 |       | Toyota                | Toyota                | Toyota                | Toyota                | Toyota                |
|                  | 1.2    | Model                                                           |                 |       | RRE140HC/HEC          | RRE160HC/HEC          | RRE180HC/HEC          | RRE200HC/HEC          | RRE250HC/HEC          |
|                  | 1.3    | Drive                                                           |                 |       | Electric              | Electric              | Electric              | Electric              | Electric              |
|                  | 1.4    | Operator type                                                   |                 |       | Seated                | Seated                | Seated                | Seated                | Seated                |
|                  | 1.5    | Load capacity/rated load                                        | Q               | kg    | 1400                  | 1600                  | 1800                  | 2000                  | 2500                  |
|                  | 1.6    | Load centre                                                     | c               | mm    | 600                   | 600                   | 600                   | 600                   | 600                   |
|                  | 1.8    | Load distance, centre of support arm wheel to face of fork      | x               | mm    | 310 *                 | 394 *                 | 373 *                 | 433 *                 | 388 *                 |
|                  | 1.9    | Wheelbase                                                       | y               | mm    | 1311                  | 1395                  | 1455                  | 1515                  | 1575                  |
| Weight           | 2.1    | Service weight including battery                                |                 | kg    | 3390                  | 3422                  | 3719                  | 3902                  | 4270                  |
|                  | 2.3    | Axle load, mast retracted without load, drive/support arm wheel |                 | kg    | 2051/1339             | 2123/1298             | 2333/1387             | 2479/1423             | 2673/1597             |
|                  | 2.4    | Axle load, mast extended with load, drive/support arm wheel     |                 | kg    | 651/4138              | 607/4414              | 627/4892              | 675/5227              | 524/6245              |
|                  | 2.5    | Axle load, mast retracted with load, drive/support arm wheel    |                 | kg    | 1721/3069             | 1887/3134             | 2168/3351             | 2382/3520             | 2602/4168             |
|                  | 2.6    | Axle load, mast extended with load, drive/support arm wheel     |                 | kg    | 651/4138              | 607/4414              | 627/4892              | 675/5227              | 524/6245              |
| Wheels           | 3.1    | Drive/support arm wheel                                         |                 |       | Vulkollan®/Vulkollan® | Vulkollan®/Vulkollan® | Vulkollan®/Vulkollan® | Vulkollan®/Vulkollan® | Vulkollan®/Vulkollan® |
|                  | 3.2    | Wheel size, front                                               |                 | mm    | ø 350x140             | ø 350x140             | ø400x160              | ø400x160              | ø400x160              |
|                  | 3.3    | Wheel size, rear                                                |                 | mm    | ø 300x106             | ø 300x106             | ø350x106              | ø350x106              | ø350x106              |
|                  | 3.5    | Wheels, number front/rear (x = driven wheels)                   |                 |       | 1x/2                  | 1x/2                  | 1x/2                  | 1x/2                  | 1x/2                  |
|                  | 3.7    | Track width, rear                                               | b <sub>11</sub> | mm    | 1134                  | 1134                  | 1134                  | 1134                  | 1134                  |
| Dimensions       | 4.1    | Tilt of fork, forward/backward                                  | α/β             | deg   | -2°/4° *              | -2°/4° *              | -2°/4° *              | -2°/4° *              | -2°/4° *              |
|                  | 4.2    | Height, mast lowered                                            | h <sub>1</sub>  | mm    | 2887 *                | 2887 *                | 2966 *                | 2966 *                | 2936 *                |
|                  | 4.3    | Free lift                                                       | h <sub>2</sub>  | mm    | 2403 *                | 2403 *                | 2459 *                | 2459 *                | 2449 *                |
|                  | 4.4    | Lift                                                            | h <sub>3</sub>  | mm    | 6945 *                | 6945 *                | 6945 *                | 6945 *                | 6945 *                |
|                  |        | Lift height                                                     | h <sub>23</sub> | mm    | 7000 *                | 7000 *                | 7000 *                | 7000 *                | 7000 *                |
|                  | 4.5    | Height, mast extended                                           | h <sub>4</sub>  | mm    | 7540 *                | 7540 *                | 7548 *                | 7548 *                | 7545 *                |
|                  | 4.7    | Height of overhead guard (cabin)                                | h <sub>6</sub>  | mm    | 2198                  | 2198                  | 2261                  | 2261                  | 2261                  |
|                  | 4.8    | Seat height                                                     | h <sub>7</sub>  | mm    | 1136                  | 1136                  | 1198                  | 1198                  | 1198                  |
|                  | 4.10   | Height support arms                                             | h <sub>8</sub>  | mm    | 268                   | 268                   | 330                   | 330                   | 330                   |
|                  | 4.15   | Height, fork lowered                                            | h <sub>13</sub> | mm    | 55                    | 55                    | 55                    | 55                    | 55                    |
|                  | 4.19   | Overall length                                                  | l <sub>1</sub>  | mm    | 2413                  | 2413                  | 2494                  | 2494                  | 2599                  |
|                  | 4.20   | Length to face of forks                                         | l <sub>2</sub>  | mm    | 1263                  | 1263                  | 1344                  | 1344                  | 1449                  |
|                  | 4.21   | Overall width                                                   | b <sub>1</sub>  | mm    | 1270                  | 1270                  | 1270                  | 1270                  | 1270                  |
|                  | 4.22   | Fork dimensions                                                 | s/e/l           | mm    | 40/100/1150 *         | 40/100/1150 *         | 40/120/1150 *         | 40/120/1150 *         | 45/125/1150 *         |
|                  | 4.23   | Fork carriage ISO 2328, class/type A, B                         |                 |       | 2A                    | 2A                    | 2A                    | 2A                    | 2A                    |
|                  | 4.24   | Fork carriage width                                             | b <sub>3</sub>  | mm    | 819                   | 819                   | 819                   | 819                   | 819                   |
|                  | 4.25   | Width over forks                                                | b <sub>5</sub>  | mm    | 252 - 698             | 252 - 698             | 272 - 718             | 272 - 718             | 277 - 723             |
|                  | 4.26   | Distance between wheel arms/loading surfaces                    | b <sub>4</sub>  | mm    | 900 *                 | 900 *                 | 900 *                 | 900 *                 | 900 *                 |
|                  | 4.28   | Reach distance                                                  | l <sub>4</sub>  | mm    | 506 *                 | 590 *                 | 594 *                 | 654 *                 | 609 *                 |
|                  | 4.31   | Ground clearance, with load, below mast                         | m <sub>1</sub>  | mm    | 68                    | 68                    | 68                    | 68                    | 68                    |
|                  | 4.32   | Ground clearance, center of wheelbase <sup>2)</sup>             | m <sub>2</sub>  | mm    | 74                    | 74                    | 74                    | 74                    | 74                    |
|                  | 4.34.1 | Aisle width for pallets 1000x1200 crossways                     | A <sub>st</sub> | mm    | 2687                  | 2710                  | 2785                  | 2802                  | 2894                  |
|                  | 4.34.2 | Aisle width for pallets 800x1200 lengthways                     | A <sub>st</sub> | mm    | 2749                  | 2757                  | 2836                  | 2842                  | 2942                  |
|                  | 4.35   | Turning radius                                                  | W <sub>a</sub>  | mm    | 1573                  | 1657                  | 1717                  | 1777                  | 1837                  |
|                  | 4.37   | Length across support arms                                      | l <sub>7</sub>  | mm    | 1744                  | 1828                  | 1913                  | 1973                  | 2033                  |
| Performance data | 5.1    | Travel speed, with/without load                                 |                 | km/h  | 10,3/11 <sup>1)</sup> | 10/11 <sup>1)</sup>   | 11/11                 | 11/11                 | 11/11                 |
|                  | 5.1    | Travel speed, with/without load (High speed version)            |                 | km/h  | 14/14                 | 14/14                 | 14/14                 | 14/14                 | 14/14                 |
|                  | 5.2    | Lift speed, with/without load                                   |                 | m/s   | 0,38/0,68             | 0,36/0,68             | —                     | —                     | —                     |
|                  | 5.2    | Lift speed, with/without load (High speed version)              |                 | m/s   | 0,50/0,68             | 0,50/0,68             | 0,46/0,68             | 0,43/0,68             | 0,37/0,64             |
|                  | 5.3    | Lowering speed, with/without load                               |                 | m/s   | 0,59/0,55             | 0,59/0,55             | 0,55/0,60             | 0,55/0,60             | 0,53/0,58             |
|                  | 5.4    | Reach speed, with/without load                                  |                 | m/s   | 0,20/0,28             | 0,20/0,28             | 0,20/0,28             | 0,20/0,28             | 0,20/0,28             |
|                  | 5.8    | Max. gradeability, with/without load <sup>3)</sup>              |                 | %     | 10/15                 | 10/15                 | 10/15                 | 10/15                 | 7/12                  |
|                  | 5.9    | Acceleration time with/without load (over 10 m)                 |                 | s     | 5,4/4,9               | 5,5/4,9               | 4,9/4,4               | 5,0/4,5               | 5,4/4,7               |
|                  | 5.10   | Service brake                                                   |                 |       | Electric              | Electric              | Electric              | Electric              | Electric              |
|                  | 5.11   | Service brake                                                   |                 |       | Electric              | Electric              | Electric              | Electric              | Electric              |
| Electric motor   | 6.1    | Drive motor rating S2 60 min                                    |                 | kW    | 7,5                   | 7,5                   | 9,0                   | 9,0                   | 9,0                   |
|                  | 6.2    | Lift motor rating S3 15%                                        |                 | kW    | 11,0                  | 11,0                  | —                     | —                     | —                     |
|                  | 6.2    | Lift motor rating S3 15% (High speed version)                   |                 | kW    | 15,0                  | 15,0                  | 15,0                  | 15,0                  | 15,0                  |
|                  | 6.4    | Battery voltage, nominal capacity K <sub>s</sub>                |                 | V/Ah  | 48/465 *              | 48/465 *              | 48/620 *              | 48/620 *              | 48/775 *              |
|                  | 6.5    | Battery weight                                                  |                 | kg    | 685 *                 | 685 *                 | 875 *                 | 875 *                 | 1055 *                |
|                  | 6.6    | Energy consumption according to VDI cycle                       |                 | kWh/h | 3,4                   | 3,7                   | 3,9                   | 4,7                   | 5,2                   |
|                  | 6.7    | Turnover output                                                 |                 | t/h   | 56                    | 66                    | 76                    | 84                    | 105                   |
|                  | 6.8    | Energy consumption at turnover output                           |                 | kWh/h | 3,2                   | 3,3                   | 3,7                   | 4,2                   | 4,7                   |
| Other            | 8.1    | Type of drive control                                           |                 |       | Variable AC           | Variable AC           | Variable AC           | Variable AC           | Variable AC           |
|                  | 8.4    | Sound level at the driver's ear according to EN 12 053          |                 | dB(A) | 66                    | 66                    | 66                    | 66                    | 66                    |

1) 11/11 km/h with support wheel brake.

2) 15 mm under studs.

3) Measured according to company standard.

\* Other alternatives are available.

All data are based on table configuration. Other configurations may give other values.

Truck performance and dimensions are nominal and subject to tolerances.

Toyota Material Handling Manufacturing Sweden AB products and specifications are subject to change without notice.

## Battery compartment

## BT reflex

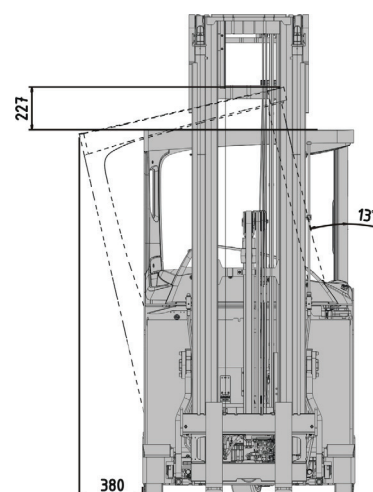
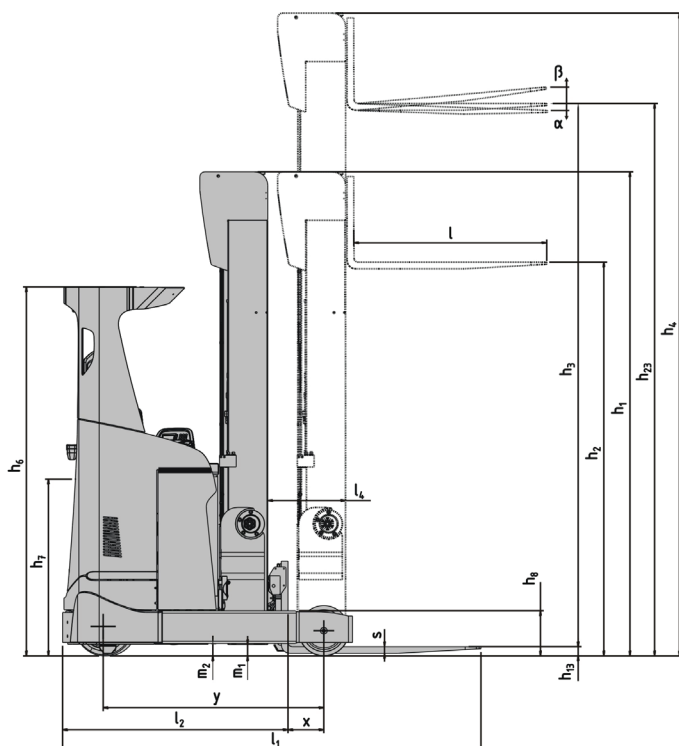
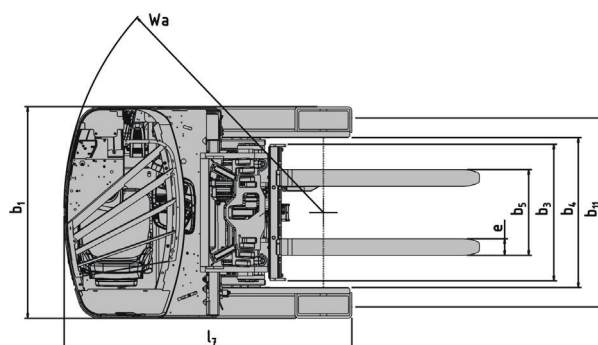
| Dimensions |                                                              |                 |      | RRE140HC/HEC       |                    |             | RRE160HC/HEC       |                    |                    |             |
|------------|--------------------------------------------------------------|-----------------|------|--------------------|--------------------|-------------|--------------------|--------------------|--------------------|-------------|
| Mast type  |                                                              |                 |      | Triplex Hi-Lo - A  |                    |             | Triplex Hi-Lo - A  |                    |                    |             |
|            | Battery compartment                                          |                 | mm   | 275                | 347                | 419         | 275                | 347                | 419                | 491         |
| 1.8        | Load distance, centre of support arm wheel to face of forks  | x               | mm   | 310 <sup>1)</sup>  | 238 <sup>1)</sup>  | 157         | 394 <sup>1)</sup>  | 322 <sup>1)</sup>  | 250 <sup>1)</sup>  | 169         |
| 4.20       | Length to face of forks                                      | I <sub>2</sub>  | mm   | 1263 <sup>2)</sup> | 1335 <sup>2)</sup> | 1416        | 1263 <sup>2)</sup> | 1335 <sup>2)</sup> | 1407 <sup>2)</sup> | 1488        |
| 4.33       | Aisle width for pallets 1000x1200 crossways                  | A <sub>st</sub> | mm   | 2687               | 2743               | 2808        | 2710               | 2762               | 2817               | 2882        |
| 4.34       | Aisle width for pallets 800x1200 lengthways                  | A <sub>st</sub> | mm   | 2749               | 2815               | 2890        | 2757               | 2822               | 2888               | 2963        |
| 4.35       | Turning radius                                               | W <sub>a</sub>  | mm   | 1573               | 1573               | 1573        | 1657               | 1657               | 1657               | 1657        |
| 6.4        | Battery voltage, nominal capacity K <sub>s</sub> , Lead-acid |                 | V/Ah | 48/465             | 48/620             | 48/775      | 48/465             | 48/620             | 48/775             | 48/930      |
| 6.5        | Battery weight, min. - max.                                  |                 | kg   | 685 - 825          | 875 - 1030         | 1055 - 1235 | 685 - 825          | 875 - 1030         | 1055 - 1235        | 1250 - 1440 |

1) With battery in sleigh - 9 mm

2) With battery in sleigh + 9 mm

## Mast dimensions

| RRE140/160HC/HEC |                      |                 |    | Triplex Hi-Lo - A |      |      |      |      |      |      |      |      |      |       |       |       |       |
|------------------|----------------------|-----------------|----|-------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|                  | Lift height          | h <sub>23</sub> | mm | 4900              | 5400 | 5700 | 6300 | 7000 | 7250 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000 |
| 4.4              | Lift                 | h <sub>3</sub>  | mm | 4845              | 5345 | 5645 | 6245 | 6945 | 7195 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945 |
| 4.2              | Height, mast lowered | h <sub>1</sub>  | mm | 2187              | 2354 | 2454 | 2654 | 2887 | 2971 | 3054 | 3221 | 3387 | 3554 | 3721  | 3887  | 4054  | 4221  |
| 4.3              | Free lift            | h <sub>2</sub>  | mm | 1703              | 1871 | 1971 | 2171 | 2403 | 2487 | 2571 | 2737 | 2903 | 3071 | 3237  | 3403  | 3571  | 3737  |
| 4.5              | Heigh, mast extended | h <sub>4</sub>  | mm | 5440              | 5941 | 6241 | 6841 | 7540 | 7792 | 8041 | 8542 | 9040 | 9541 | 10042 | 10540 | 11041 | 11542 |



# Battery compartment

# BT reflex

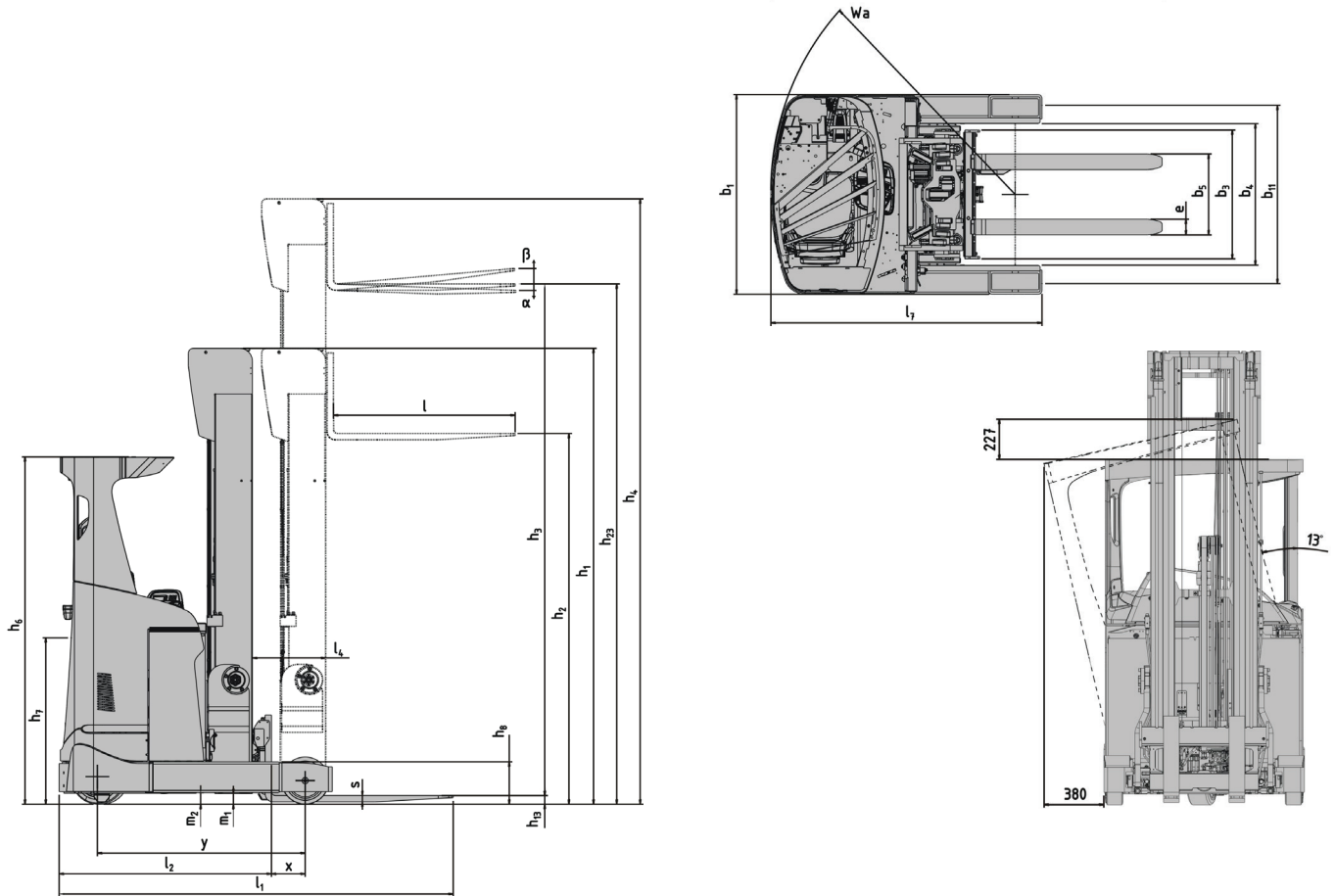
| Dimensions |                                                              |                 |      | RRE180HC/HEC      |           |           |                   |           |           | RRE200HC/HEC      |           |           |                   |           |           |                   |           |           | RRE250HC/HEC      |           |                   |           |
|------------|--------------------------------------------------------------|-----------------|------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-------------------|-----------|
| Mast type  |                                                              |                 |      | Triplex Hi-Lo - B |           |           | Triplex Hi-Lo - C |           |           | Triplex Hi-Lo - B |           |           | Triplex Hi-Lo - C |           |           | Triplex Hi-Lo - D |           |           | Triplex Hi-Lo - C |           | Triplex Hi-Lo - D |           |
|            | Battery compartment                                          |                 | mm   | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 419               | 491       | 419               | 491       |
| 1.8        | Load distance, centre of support arm wheel to face of forks  | x               | mm   | 373               | 301       | 229       | 340               | 268       | 196       | 433               | 361       | 289       | 400               | 328       | 256       | 345               | 273       | 201       | 388               | 316       | 333               | 261       |
| 4.20       | Length to face of forks                                      | l <sub>2</sub>  | mm   | 1344              | 1416      | 1488      | 1377              | 1449      | 1521      | 1344              | 1416      | 1488      | 1377              | 1449      | 1521      | 1432              | 1504      | 1576      | 1449              | 1521      | 1504              | 1576      |
| 4.33       | Aisle width for pallets 1000x1200 crossways                  | A <sub>st</sub> | mm   | 2785              | 2838      | 2894      | 2809              | 2863      | 2920      | 2802              | 2853      | 2907      | 2825              | 2878      | 2933      | 2865              | 2920      | 2976      | 2894              | 2947      | 2934              | 2989      |
| 4.34       | Aisle width for pallets 800x1200 lengthways                  | A <sub>st</sub> | mm   | 2836              | 2901      | 2967      | 2865              | 2931      | 2998      | 2842              | 2906      | 2972      | 2871              | 2936      | 3002      | 2921              | 2987      | 3053      | 2942              | 3007      | 2992              | 3058      |
| 4.35       | Turning radius                                               | W <sub>a</sub>  | mm   | 1717              | 1717      | 1717      | 1717              | 1717      | 1717      | 1777              | 1777      | 1777      | 1777              | 1777      | 1777      | 1777              | 1777      | 1777      | 1837              | 1837      | 1837              | 1837      |
| 6.4        | Battery voltage, nominal capacity K <sub>s</sub> , Lead-acid |                 | V/Ah | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/775            | 48/930    | 48/775            | 48/930    |
| 6.5        | Battery weight, min. - max.                                  |                 | kg   | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 1055-1235         | 1250-1440 | 1055-1235         | 1250-1440 |

# Mast dimensions

| RRE180HC/HEC |                      |          |    | Triplex Hi-Lo - B |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - C |       |       |       |       |
|--------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------|
|              | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000 |
| 4.4          | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945 |
| 4.2          | Height, mast lowered | $h_1$    | mm | 2249              | 2432 | 2532 | 2732 | 2966 | 3132 | 3299 | 3466 | 3632 | 3799  | 3966  | 4132  | 4299              | 4463  | 4630  | 4797  | 4963  |
| 4.3          | Free lift            | $h_2$    | mm | 1741              | 1925 | 2025 | 2225 | 2459 | 2625 | 2791 | 2959 | 3125 | 3291  | 3459  | 3625  | 3791              | 3949  | 4117  | 4283  | 4449  |
| 4.5          | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7548 | 8046 | 8547 | 9048 | 9546 | 10047 | 10548 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545 |

| RRE200HC/HEC |                      |          |    | Triplex Hi-Lo - B |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - C |       |       |       | Triplex Hi-Lo - D |  |  |  |
|--------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------------------|--|--|--|
|              | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000             |  |  |  |
| 4.4          | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945             |  |  |  |
| 4.2          | Height, mast lowered | $h_1$    | mm | 2249              | 2432 | 2532 | 2732 | 2966 | 3132 | 3299 | 3466 | 3632 | 3799  | 3963  | 4130  | 4297              | 4463  | 4630  | 4797  | 4963              |  |  |  |
| 4.3          | Free lift            | $h_2$    | mm | 1741              | 1925 | 2025 | 2225 | 2459 | 2625 | 2791 | 2959 | 3125 | 3291  | 3449  | 3617  | 3783              | 3949  | 4117  | 4283  | 4449              |  |  |  |
| 4.5          | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7548 | 8046 | 8547 | 9048 | 9546 | 10047 | 10545 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545             |  |  |  |

| RRE250HC/HEC |                      |          |    | Triplex Hi-Lo - C |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - D |       |       |       |       |  |  |  |
|--------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------|--|--|--|
|              | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000 |  |  |  |
| 4.4          | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945 |  |  |  |
| 4.2          | Height, mast lowered | $h_1$    | mm | 2247              | 2430 | 2530 | 2730 | 2936 | 3130 | 3297 | 3463 | 3630 | 3797  | 3963  | 4130  | 4297              | 4463  | 4630  | 4797  | 4963  |  |  |  |
| 4.3          | Free lift            | $h_2$    | mm | 1733              | 1917 | 2017 | 2217 | 2449 | 2617 | 2783 | 2949 | 3117 | 3283  | 3449  | 3617  | 3783              | 3949  | 4117  | 4283  | 4449  |  |  |  |
| 4.5          | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7545 | 8046 | 8547 | 9045 | 9546 | 10047 | 10545 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545 |  |  |  |



# Reach truck, Coldstore closed heated cabin

|                  |        |                                                                 |                 |      |                           |                           |                           |                           |                           |
|------------------|--------|-----------------------------------------------------------------|-----------------|------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| Identification   | 1.1    | Manufacturer                                                    |                 |      | Toyota                    | Toyota                    | Toyota                    | Toyota                    | Toyota                    |
|                  | 1.2    | Model                                                           |                 |      | RRE140HCC/<br>HECC        | RRE160HCC/<br>HECC        | RRE180HCC/<br>HECC        | RRE200HCC/<br>HECC        | RRE250HCC/<br>HECC        |
|                  | 1.3    | Drive                                                           |                 |      | Electric                  | Electric                  | Electric                  | Electric                  | Electric                  |
|                  | 1.4    | Operator type                                                   |                 |      | Seated                    | Seated                    | Seated                    | Seated                    | Seated                    |
|                  | 1.5    | Load capacity/rated load                                        | Q               | kg   | 1400                      | 1600                      | 1800                      | 2000                      | 2500                      |
|                  | 1.6    | Load centre                                                     | c               | mm   | 600                       | 600                       | 600                       | 600                       | 600                       |
|                  | 1.8    | Load distance, centre of support arm wheel to face of fork      | x               | mm   | 238 *                     | 322 *                     | 373 *                     | 433 *                     | 388 *                     |
|                  | 1.9    | Wheelbase                                                       | y               | mm   | 1311                      | 1395                      | 1455                      | 1515                      | 1575                      |
| Weight           | 2.1    | Service weight including battery                                |                 | kg   | 3783                      | 3791                      | 3844                      | 4027                      | 4394                      |
|                  | 2.3    | Axle load, mast retracted without load, drive/support arm wheel |                 | kg   | 2275/1509                 | 2356/1435                 | 2400/1444                 | 2548/1479                 | 2740/1654                 |
|                  | 2.4    | Axle load, mast extended with load, drive/support arm wheel     |                 | kg   | 945/4229                  | 915/4476                  | 694/4950                  | 743/5283                  | 592/6303                  |
|                  | 2.5    | Axle load, mast retracted with load, drive/support arm wheel    |                 | kg   | 1870/3314                 | 2042/3349                 | 2235/3409                 | 2451/3576                 | 2670/4225                 |
| Wheels           | 3.1    | Drive/support arm wheel                                         |                 |      | Vulkollan®/<br>Vulkollan® | Vulkollan®/<br>Vulkollan® | Vulkollan®/<br>Vulkollan® | Vulkollan®/<br>Vulkollan® | Vulkollan®/<br>Vulkollan® |
|                  | 3.2    | Wheel size, front                                               |                 | mm   | ø 350x140                 | ø 350x140                 | ø400x160                  | ø400x160                  | ø400x160                  |
|                  | 3.3    | Wheel size, rear                                                |                 | mm   | ø 300x106                 | ø 300x106                 | ø350x106                  | ø350x106                  | ø350x106                  |
|                  | 3.5    | Wheels, number front/rear (x = driven wheels)                   |                 |      | 1x/2                      | 1x/2                      | 1x/2                      | 1x/2                      | 1x/2                      |
|                  | 3.7    | Track width, rear                                               | b <sub>11</sub> | mm   | 1134                      | 1134                      | 1134                      | 1134                      | 1134                      |
| Dimensions       | 4.1    | Tilt of fork, forward/backward                                  | α/β             | deg  | -2°/4° *                  | -2°/4° *                  | -2°/4° *                  | -2°/4° *                  | -2°/4° *                  |
|                  | 4.2    | Height, mast lowered                                            | h <sub>1</sub>  | mm   | 2887 *                    | 2887 *                    | 2966 *                    | 2966 *                    | 2936 *                    |
|                  | 4.3    | Free lift                                                       | h <sub>2</sub>  | mm   | 2403 *                    | 2403 *                    | 2459 *                    | 2459 *                    | 2449 *                    |
|                  | 4.4    | Lift                                                            | h <sub>3</sub>  | mm   | 6945 *                    | 6945 *                    | 6945 *                    | 6945 *                    | 6945 *                    |
|                  |        | Lift height                                                     | h <sub>23</sub> | mm   | 7000 *                    | 7000 *                    | 7000 *                    | 7000 *                    | 7000 *                    |
|                  | 4.5    | Height, mast extended                                           | h <sub>4</sub>  | mm   | 7540 *                    | 7540 *                    | 7548 *                    | 7548 *                    | 7545 *                    |
|                  | 4.7    | Height of overhead guard (cabin)                                | h <sub>6</sub>  | mm   | 2200                      | 2200                      | 2263                      | 2263                      | 2263                      |
|                  | 4.8    | Seat height                                                     | h <sub>7</sub>  | mm   | 1136                      | 1136                      | 1198                      | 1198                      | 1198                      |
|                  | 4.10   | Height support arms                                             | h <sub>8</sub>  | mm   | 268                       | 268                       | 330                       | 330                       | 330                       |
|                  | 4.15   | Height, fork lowered                                            | h <sub>13</sub> | mm   | 55                        | 55                        | 55                        | 55                        | 55                        |
|                  | 4.19   | Overall length                                                  | l <sub>1</sub>  | mm   | 2548                      | 2548                      | 2557                      | 2557                      | 2662                      |
|                  | 4.20   | Length to face of forks                                         | l <sub>2</sub>  | mm   | 1398                      | 1398                      | 1407                      | 1407                      | 1512                      |
|                  | 4.21   | Overall width                                                   | b <sub>1</sub>  | mm   | 1270                      | 1270                      | 1270                      | 1270                      | 1270                      |
|                  | 4.22   | Fork dimensions                                                 | s/e/l           | mm   | 40/100/1150 *             | 40/100/1150 *             | 40/120/1150 *             | 40/120/1150 *             | 45/125/1150 *             |
|                  | 4.23   | Fork carriage ISO 2328, class/type A, B                         |                 |      | 2A                        | 2A                        | 2A                        | 2A                        | 2A                        |
|                  | 4.24   | Fork carriage width                                             | b <sub>3</sub>  | mm   | 819                       | 819                       | 819                       | 819                       | 819                       |
|                  | 4.25   | Width over forks                                                | b <sub>5</sub>  | mm   | 252 - 698                 | 252 - 698                 | 272 - 718                 | 272 - 718                 | 277 - 723                 |
|                  | 4.26   | Distance between wheel arms/loading surfaces                    | b <sub>4</sub>  | mm   | 900 *                     | 900 *                     | 900 *                     | 900 *                     | 900 *                     |
|                  | 4.28   | Reach distance                                                  | l <sub>4</sub>  | mm   | 434 *                     | 518 *                     | 594 *                     | 654 *                     | 609 *                     |
|                  | 4.31   | Ground clearance, with load, below mast                         | m <sub>1</sub>  | mm   | 68                        | 68                        | 68                        | 68                        | 68                        |
|                  | 4.32   | Ground clearance, center of wheelbase <sup>1)</sup>             | m <sub>2</sub>  | mm   | 74                        | 74                        | 74                        | 74                        | 74                        |
|                  | 4.34.1 | Aisle width for pallets 1000x1200 crossways                     | A <sub>st</sub> | mm   | 2802                      | 2825                      | 2848                      | 2865                      | 2957                      |
|                  | 4.34.2 | Aisle width for pallets 800x1200 lengthways                     | A <sub>st</sub> | mm   | 2877                      | 2885                      | 2899                      | 2905                      | 3005                      |
|                  | 4.35   | Turning radius                                                  | W <sub>a</sub>  | mm   | 1620                      | 1720                      | 1780                      | 1840                      | 1900                      |
|                  | 4.37   | Length across support arms                                      | l <sub>7</sub>  | mm   | 1807                      | 1891                      | 1976                      | 2036                      | 2096                      |
| Performance data | 5.1    | Travel speed, with/without load                                 |                 | km/h | 10,3/11 <sup>3)</sup>     | 10/11 <sup>3)</sup>       | 11/11                     | 11/11                     | 11/11                     |
|                  | 5.1    | Travel speed, with/without load (High speed version)            |                 | km/h | 14/14                     | 14/14                     | 14/14                     | 14/14                     | 14/14                     |
|                  | 5.2    | Lift speed, with/without load                                   |                 | m/s  | 0,38/0,68                 | 0,36/0,68                 | 0,46/0,68                 | 0,43/0,68                 | 0,37/0,64                 |
|                  | 5.2    | Lift speed, with/without load (High speed version)              |                 | m/s  | 0,50/0,68                 | 0,50/0,68                 | 0,55/0,60                 | 0,55/0,60                 | 0,53/0,58                 |
|                  | 5.3    | Lowering speed, with/without load                               |                 | m/s  | 0,59/0,55                 | 0,59/0,55                 | 0,20/0,28                 | 0,20/0,28                 | 0,20/0,28                 |
|                  | 5.4    | Reach speed, with/without load                                  |                 | m/s  | 0,20/0,28                 | 0,20/0,28                 | 0,20/0,28                 | 0,20/0,28                 | 0,20/0,28                 |
|                  | 5.8    | Max. gradeability, with/without load <sup>2)</sup>              |                 | %    | 10/15                     | 10/15                     | 10/15                     | 10/15                     | 7/12                      |
| Electric motor   | 5.10   | Service brake                                                   |                 |      | Electric                  | Electric                  | Electric                  | Electric                  | Electric                  |
|                  | 6.1    | Drive motor rating S2 60 min                                    |                 | kW   | 7,5                       | 7,5                       | 9,0                       | 9,0                       | 9,0                       |
|                  | 6.2    | Lift motor rating S3 15%                                        |                 | kW   | 11,0                      | 11,0                      | —                         | —                         | —                         |
|                  | 6.2    | Lift motor rating S3 15% (High speed version)                   |                 | kW   | 15,0                      | 15,0                      | 15,0                      | 15,0                      | 15,0                      |
|                  | 6.4    | Battery voltage, nominal capacity K <sub>5</sub>                |                 | V/Ah | 48/620 *                  | 48/620 *                  | 48/620 *                  | 48/620 *                  | 48/775 *                  |
| Other            | 6.5    | Battery weight                                                  |                 | kg   | 875 *                     | 875 *                     | 875 *                     | 875 *                     | 1055 *                    |
|                  | 8.1    | Type of drive control                                           |                 |      | Variable AC               | Variable AC               | Variable AC               | Variable AC               | Variable AC               |

1) 15 mm under studs.

2) Measured according to company standard.

\* Other alternatives are available.

All data are based on table configuration. Other configurations may give other values.

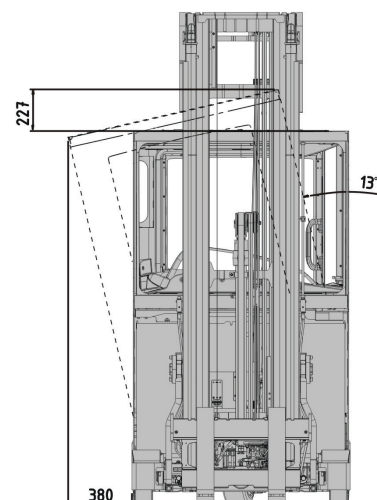
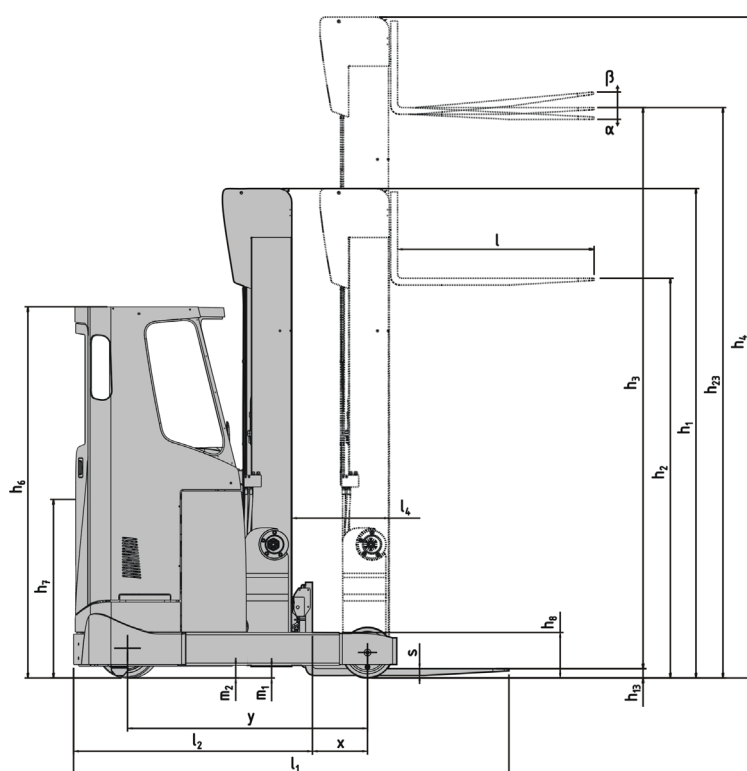
Truck performance and dimensions are nominal and subject to tolerances.

Toyota Material Handling Manufacturing Sweden AB products and specifications are subject to change without notice.

## BT reflex

- 1) With battery in sleigh - 9 mm
- 2) With battery in sleigh + 9 mm

| RRE140/160HCC/HECC |                       |          |    | Triplex Hi-Lo - A |      |      |      |      |      |      |      |      |      |       |       |       |       |
|--------------------|-----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|
|                    | Lift height           | $h_{23}$ | mm | 4900              | 5400 | 5700 | 6300 | 7000 | 7250 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000 |
| 4.4                | Lift                  | $h_3$    | mm | 4845              | 5345 | 5645 | 6245 | 6945 | 7195 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945 |
| 4.2                | Height, mast lowered  | $h_1$    | mm | 2187              | 2354 | 2454 | 2654 | 2887 | 2971 | 3054 | 3221 | 3387 | 3554 | 3721  | 3887  | 4054  | 4221  |
| 4.3                | Free lift             | $h_2$    | mm | 1703              | 1871 | 1971 | 2171 | 2403 | 2487 | 2571 | 2737 | 2903 | 3071 | 3237  | 3403  | 3571  | 3737  |
| 4.5                | Height, mast extended | $h$      | mm | 5440              | 5941 | 6241 | 6841 | 7540 | 7792 | 8041 | 8542 | 9040 | 9541 | 10042 | 10540 | 11041 | 11542 |





Battery compartment

BT reflex

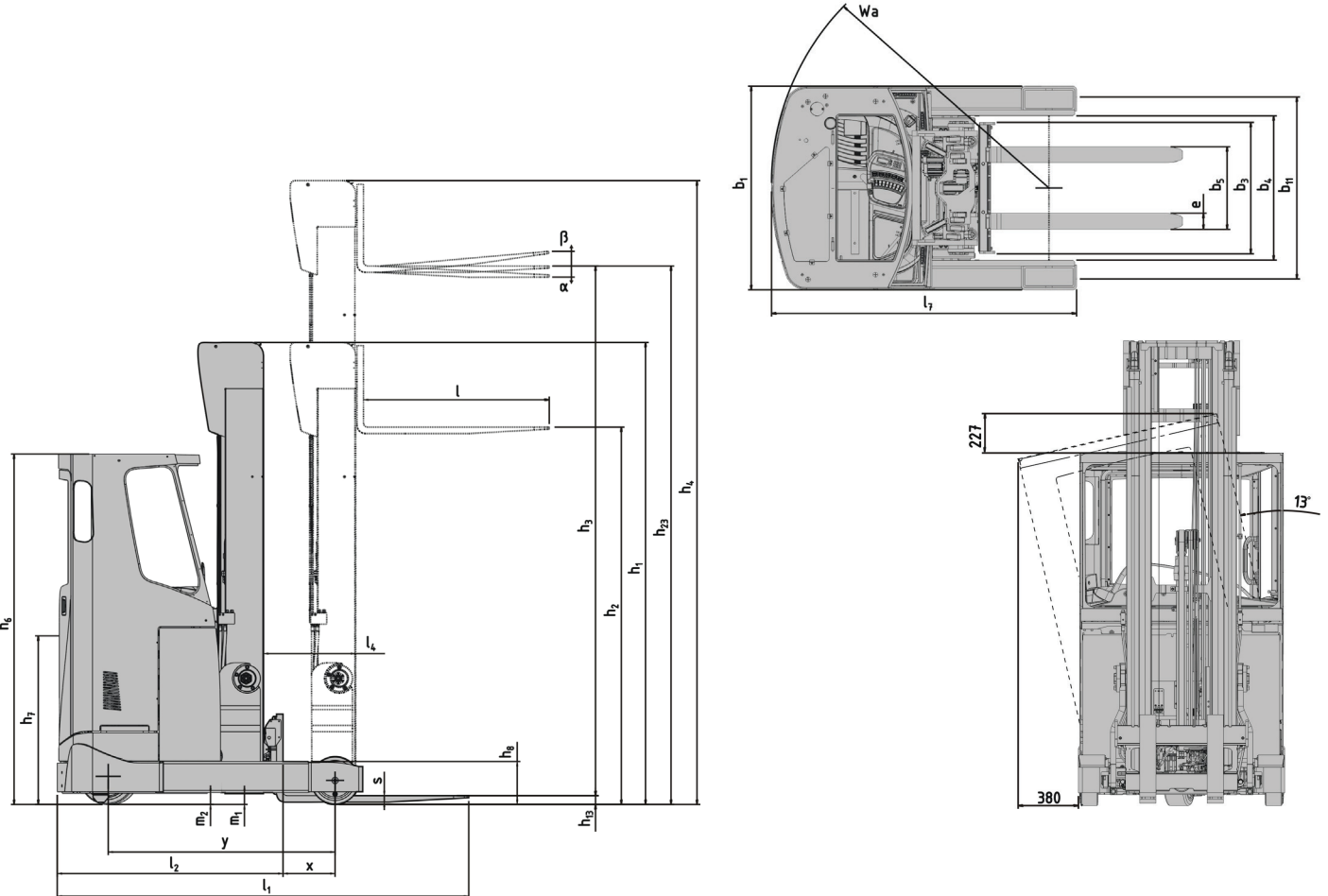
| Dimensions |                                                             |          |      | RRE180HCC/HECC    |           |           |                   |           |           | RRE200HCC/HECC    |           |           |                   |           |           |                   |           |           | RRE250HCC/HECC    |           |                   |           |
|------------|-------------------------------------------------------------|----------|------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-----------|-------------------|-----------|-------------------|-----------|
| Mast type  |                                                             |          |      | Triplex Hi-Lo - B |           |           | Triplex Hi-Lo - C |           |           | Triplex Hi-Lo - B |           |           | Triplex Hi-Lo - C |           |           | Triplex Hi-Lo - D |           |           | Triplex Hi-Lo - C |           | Triplex Hi-Lo - D |           |
|            | Battery compartment                                         |          | mm   | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 347               | 419       | 491       | 419               | 491       | 419               | 491       |
| 1.8        | Load distance, centre of support arm wheel to face of forks | x        | mm   | 373               | 301       | 229       | 340               | 268       | 196       | 433               | 361       | 289       | 400               | 328       | 256       | 345               | 273       | 201       | 388               | 316       | 333               | 261       |
| 4.20       | Length to face of forks                                     | $l_2$    | mm   | 1344              | 1416      | 1488      | 1377              | 1449      | 1521      | 1344              | 1416      | 1488      | 1377              | 1449      | 1521      | 1432              | 1504      | 1576      | 1449              | 1521      | 1504              | 1576      |
| 4.33       | Aisle width for pallets 1000x1200 crossways                 | $A_{st}$ | mm   | 2848              | 2901      | 2957      | 2872              | 2926      | 2983      | 2865              | 2916      | 2970      | 2888              | 2941      | 2996      | 2928              | 2983      | 3039      | 2957              | 3010      | 2997              | 3052      |
| 4.34       | Aisle width for pallets 800x1200 lengthways                 | $A_{st}$ | mm   | 2899              | 2964      | 3030      | 2928              | 2994      | 3061      | 2905              | 2969      | 3035      | 2934              | 2999      | 3065      | 2984              | 3050      | 3116      | 3005              | 3070      | 3055              | 3121      |
| 4.35       | Turning radius                                              | $W_9$    | mm   | 1780              | 1780      | 1780      | 1780              | 1780      | 1780      | 1840              | 1840      | 1840      | 1840              | 1840      | 1840      | 1840              | 1840      | 1840      | 1900              | 1900      | 1900              | 1900      |
| 6.4        | Battery voltage, nominal capacity $K_5$                     |          | V/Ah | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/620            | 48/775    | 48/930    | 48/775            | 48/930    | 48/775            | 48/930    |
| 6.5        | Battery weight, min. - max.                                 |          | kg   | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 875-1030          | 1055-1235 | 1250-1440 | 1055-1235         | 1250-1440 | 1055-1235         | 1250-1440 |

Mast dimensions

| RRE180HCC/HECC |                      |          |    | Triplex Hi-Lo - B |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - C |       |       |       |       |
|----------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------|
|                | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000 |
| 4.4            | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945 |
| 4.2            | Height, mast lowered | $h_1$    | mm | 2249              | 2432 | 2532 | 2732 | 2966 | 3132 | 3299 | 3466 | 3632 | 3799  | 3966  | 4132  | 4299              | 4463  | 4630  | 4797  | 4963  |
| 4.3            | Free lift            | $h_2$    | mm | 1741              | 1925 | 2025 | 2225 | 2459 | 2625 | 2791 | 2959 | 3125 | 3291  | 3459  | 3625  | 3791              | 3949  | 4117  | 4283  | 4449  |
| 4.5            | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7548 | 8046 | 8547 | 9048 | 9546 | 10047 | 10548 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545 |

| RRE200HCC/HECC |                      |          |    | Triplex Hi-Lo - B |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - C |       |       |       | Triplex Hi-Lo - D |  |  |  |
|----------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------------------|--|--|--|
|                | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000             |  |  |  |
| 4.4            | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945             |  |  |  |
| 4.2            | Height, mast lowered | $h_1$    | mm | 2249              | 2432 | 2532 | 2732 | 2966 | 3132 | 3299 | 3466 | 3632 | 3799  | 3963  | 4130  | 4297              | 4463  | 4630  | 4797  | 4963              |  |  |  |
| 4.3            | Free lift            | $h_2$    | mm | 1741              | 1925 | 2025 | 2225 | 2459 | 2625 | 2791 | 2959 | 3125 | 3291  | 3449  | 3617  | 3783              | 3949  | 4117  | 4283  | 4449              |  |  |  |
| 4.5            | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7548 | 8046 | 8547 | 9048 | 9546 | 10047 | 10545 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545             |  |  |  |

| RRE250HCC/HECC |                      |          |    | Triplex Hi-Lo - C |      |      |      |      |      |      |      |      |       |       |       | Triplex Hi-Lo - D |       |       |       |       |
|----------------|----------------------|----------|----|-------------------|------|------|------|------|------|------|------|------|-------|-------|-------|-------------------|-------|-------|-------|-------|
|                | Lift height          | $h_{23}$ | mm | 4850              | 5400 | 5700 | 6300 | 7000 | 7500 | 8000 | 8500 | 9000 | 9500  | 10000 | 10500 | 11000             | 11500 | 12000 | 12500 | 13000 |
| 4.4            | Lift                 | $h_3$    | mm | 4795              | 5345 | 5645 | 6245 | 6945 | 7445 | 7945 | 8445 | 8945 | 9445  | 9945  | 10445 | 10945             | 11445 | 11945 | 12445 | 12945 |
| 4.2            | Height, mast lowered | $h_1$    | mm | 2247              | 2430 | 2530 | 2730 | 2936 | 3130 | 3297 | 3463 | 3630 | 3797  | 3963  | 4130  | 4297              | 4463  | 4630  | 4797  | 4963  |
| 4.3            | Free lift            | $h_2$    | mm | 1733              | 1917 | 2017 | 2217 | 2449 | 2617 | 2783 | 2949 | 3117 | 3283  | 3449  | 3617  | 3783              | 3949  | 4117  | 4283  | 4449  |
| 4.5            | Heigh, mast extended | $h_4$    | mm | 5397              | 5946 | 6246 | 6846 | 7545 | 8046 | 8547 | 9045 | 9546 | 10047 | 10545 | 11046 | 11547             | 12045 | 12546 | 13047 | 13545 |





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