



Reach truck 1.2 - 1.6 ton

BT reflex

N-series

RRE120M

RRE140M

RRE160M



Reach truck

| Truck specifications | | | | RRE120M | RRE140M | RRE160M | |
|----------------------|----------------------------|---|----------------|----------|---------------------|---------------------|---------------------|
| Identification | 1.1 | Manufacturer | | Toyota | Toyota | Toyota | |
| | 1.2 | Model | | RRE120M | RRE140M | RRE160M | |
| | 1.3 | Drive | | Electric | Electric | Electric | |
| | 1.4 | Operator type | | Seated | Seated | Seated | |
| | 1.5 | Load capacity/rated load | Q | kg | 1200 | 1400 | 1600 |
| | 1.6 | Load centre | c | mm | 600 | 600 | 600 |
| | 1.8 | Load distance, centre of support arm wheel to face of forks | x | mm | 449 | 418 | 400 |
| | 1.9 | Wheelbase | y | mm | 1434 | 1434 | 1434 |
| Weight | 2.1 | Service weight including battery | | kg | 2849 | 2974 | 3509 |
| | 2.3 | Axle load, mast retracted without load, drive/support arm wheel | | kg | 1630/1219 | 1690/1284 | 2003/1506 |
| | 2.4 | Axle load, mast extended with load, drive/support arm wheel | | kg | 719/3330 | 444/3930 | 424/4685 |
| | 2.5 | Axle load, mast retracted with load, drive/support arm wheel | | kg | 1340/2709 | 1300/3074 | 1580/3529 |
| Wheels | 3.1 | Drive/support arm wheel | | | Polyurethane | Polyurethane | Polyurethane |
| | 3.2 | Wheel size, front | | | Ø 285 | Ø 285 | Ø 285 |
| | 3.3 | Wheel size, rear | | | Ø 310 | Ø 310 | Ø 310 |
| | 3.5 | Wheels, number front/rear (x = driven wheels) | | | 1x/2 | 1x/2 | 1x/2 |
| Dimensions | 4.1 | Tilt of fork, forward/backward | α/β | deg | -0.5°/2° (mast) | -2°/4° | -2°/4° |
| | 4.2 | Height, mast lowered | h_1 | mm | 1930 | 2057 | 2190 |
| | 4.3 | Free lift | h_2 | mm | 1457 ¹⁾ | 1416 ¹⁾ | 1549 ¹⁾ |
| | 4.4 | Lift | h_3 | mm | 4110 ¹⁾ | 4360 ¹⁾ | 4760 ¹⁾ |
| | | Lift height | h_{23} | mm | 4150 ¹⁾ | 4400 ¹⁾ | 4800 ¹⁾ |
| | 4.5 | Height, mast extended | h_4 | mm | 4654 ¹⁾ | 5040 ¹⁾ | 5440 ¹⁾ |
| | 4.7 | Height of overhead guard (cab) | h_6 | mm | 2166 | 2166 | 2166 |
| | 4.10 | Height of support arms | h_8 | mm | 262 | 262 | 262 |
| | 4.15 | Height of lowered forks | h_{13} | mm | 40 | 40 | 40 |
| | 4.21 | Overall width | b_1 | mm | 1120 | 1120 | 1120 |
| | 4.22 | Fork dimensions | s/e/l | mm | 40/100/1150 * | 40/100/1150 * | 40/100/1150 * |
| | 4.23 | Fork carriage ISO 2328, class/type A, B | | | II A | II A | II A |
| | 4.25 | Width over forks | b_5 | mm | 250-720 | 250-720 | 250-720 |
| | 4.26 | Distance between support arms | b_4 | mm | 880 | 880 | 880 |
| | 4.31 | Ground clearance, with load, below mast | m_1 | mm | 70 | 70 | 70 |
| | 4.33 | Aisle width for pallets 1000 x 1200 crossways | A_{st} | mm | 2664 | 2685 | 2698 |
| | 4.34 | Aisle width for pallets 800 x 1200 lengthways | A_{st} | Mm | 2700 | 2727 | 2743 |
| 4.35 | Turning radius | W_a | mm | 1649 | 1649 | 1649 | |
| 4.37 | Length across support arms | l_7 | mm | 1808 | 1808 | 1808 | |
| Performance data | 5.1 | Travel speed, with/without load | | km/h | 10,1/11,2 | 10,0/11,2 | 10,0/11,2 |
| | 5.2 | Lift speed, with/without load | | m/s | 0,29/0,42 | 0,27/0,42 | 0,25/0,42 |
| | 5.3 | Lowering speed, with/without load | | m/s | 0,47/0,47 | 0,50/0,44 | 0,50/0,44 |
| | 5.8 | Max. gradeability, with/without load ²⁾ | | % | 15/10 ²⁾ | 15/10 ²⁾ | 15/10 ²⁾ |
| | 5.10 | Service brake | | | Electric | Electric | Electric |
| Electric motor | 6.1 | Drive motor rating S2 60 min | | kW | 7,5 | 7,5 | 7,5 |
| | 6.2 | Lift motor rating S3 15% | | kW | 11 | 11 | 11 |
| | 6.4 | Battery voltage, nominal capacity K_s | | V/Ah | 48/292-600 | 48/292-600 | 48/292-600 |
| | 6.5 | Battery weight, min. | | kg | 510 | 510 | 510 |
| | 6.6 | Energy consumption acc to VDI cycle ³⁾ | | kWh/h | | | |
| | 8.1 | Type of drive control | | | Variable AC | Variable AC | Variable AC |

1) Based on Triplex mast. Other alternatives are available.

2) Measured according to company standard.

3) Contact your supplier for information.

* 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

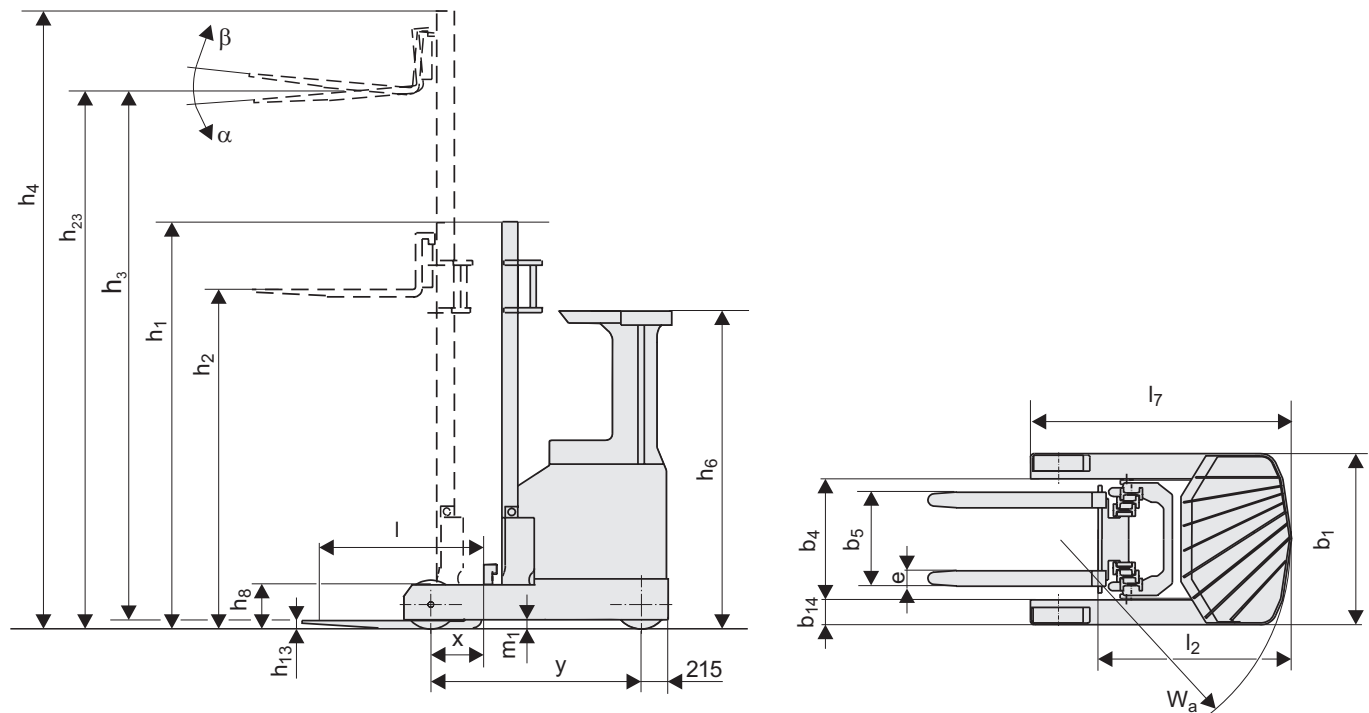
| Dimensions | | | | RRE120M | | | RRE140M | | | RRE160M | | | |
|------------|---------------------------|--|-------|---------|------------|------------|------------|------------|------------|------------|------------|------------|------------|
| Reflex | 1.8 | Depth | mm | 275 | 340 | 430 | 275 | 340 | 430 | 275 | 340 | 430 | |
| | 1.8 | Load distance, incl. fork front face ...without sideshift | x | mm | 449 | 384 | 294 | 418 | 353 | 263 | 400 | 335 | 245 |
| | | | x | mm | 394 | 329 | 239 | 380 | 315 | 225 | 362 | 297 | 207 |
| | 4.20 | Length to face of forks ...without sideshift | l_2 | mm | 1182 | 1247 | 1337 | 1231 | 1296 | 1386 | 1249 | 1314 | 1404 |
| | | | l_2 | mm | 1237 | 1302 | 1392 | 1269 | 1334 | 1424 | 1287 | 1352 | 1442 |
| | 6.4 | Battery voltage, nominal capacity K_5 | | V/Ah | 48/292-300 | 48/360-450 | 48/480-600 | 48/292-300 | 48/360-450 | 48/480-600 | 48/292-300 | 48/360-450 | 48/480-600 |
| 6.5 | Battery weight, min.—max. | | kg | 510-609 | 610-779 | 780-999 | 510-609 | 610-779 | 780-999 | 510-609 | 610-779 | 780-999 | |

Mast dimensions

| Mast | | | | Duplex Tele | | | Duplex Hi-Lo | | | Triplex Hi-Lo | | | | |
|---------|-----------------------|----------|----|-------------|------|------|--------------|------|------|---------------|------|------|------|------|
| | Lift height | h_{23} | mm | 3350 | 3750 | 4150 | 3350 | 3750 | 4150 | 4150 | 4500 | 4800 | 5400 | 6000 |
| | Lift | h_3 | mm | 3310 | 3710 | 4110 | 3310 | 3710 | 4110 | 4110 | 4460 | 4760 | 5360 | 5960 |
| RRE120M | Height, mast lowered | h_1 | mm | 2194 | 2404 | 2604 | 2194 | 2404 | 2604 | 1930 | 2047 | 2147 | 2347 | 2647 |
| | Free lift | h_2 | mm | — | — | — | 1725 | 1925 | 2125 | 1457 | 1574 | 1674 | 1874 | 2174 |
| | Height, mast extended | h_4 | mm | 3849 | 4259 | 4659 | 3849 | 4259 | 4659 | 4654 | 5004 | 5304 | 5904 | 6504 |

| Mast | | | | Triplex Hi-Lo | | | | | | | | | |
|---------|-----------------------|----------|----|---------------|------|------|------|------|------|------|------|------|------|
| | Lift height | h_{23} | mm | 4400 | 4800 | 5400 | 5700 | 6300 | 6750 | 7000 | 7500 | 8000 | 8500 |
| | Lift | h_3 | mm | 4360 | 4760 | 5360 | 5660 | 6260 | 6710 | 6960 | 7460 | 7960 | 8460 |
| RRE140M | Height, mast lowered | h_1 | mm | 2067 | 2200 | 2400 | 2500 | 2742 | 2991 | 3074 | 3241 | 3408 | 3574 |
| | Free lift | h_2 | mm | 1416 | 1549 | 1749 | 1849 | 2091 | 2340 | 2423 | 2590 | 2757 | 2923 |
| | Height, mast extended | h_4 | mm | 5050 | 5450 | 6050 | 6350 | 6950 | 7400 | 7650 | 8150 | 8650 | 9150 |

| Mast | | | | Triplex Hi-Lo | | | | | | | | | |
|---------|-----------------------|----------|----|---------------|------|------|------|------|------|------|------|------|------|
| | Lift height | h_{23} | mm | 4400 | 4800 | 5400 | 5700 | 6300 | 6750 | 7000 | 7500 | 8000 | 8500 |
| | Lift | h_3 | mm | 4360 | 4760 | 5360 | 5660 | 6260 | 6710 | 6960 | 7460 | 7960 | 8460 |
| RRE160M | Height, mast lowered | h_1 | mm | 2067 | 2200 | 2400 | 2500 | 2742 | 2991 | 3074 | 3241 | 3408 | 3574 |
| | Free lift | h_2 | mm | 1416 | 1549 | 1749 | 1849 | 2091 | 2340 | 2423 | 2590 | 2757 | 2923 |
| | Height, mast extended | h_4 | mm | 5050 | 5450 | 6050 | 6350 | 6950 | 7400 | 7650 | 8150 | 8650 | 9150 |





Truck features:

- Adjustable fork width
- Tilting forks
- Choice of cab widths
- Fingertip controls
- 360° steering
- BT Access Control
- Clear-view mast
- Clear-view overhead guard
- Adjustable pedals
- On-board data terminal mount (E-bar)



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TOYOTA

MATERIAL HANDLING

TOYOTA MATERIAL HANDLING IN EUROPE, MANAGING THE TOYOTA AND BT MATERIALS HANDLING BRANDS IN EUROPE

