

RB12-14N3(L)(C) Series

LIGHT REACH TRUCKS

1.2 - 1.4 tonnes

**SMALL IN SIZE...
BIG ON FEATURES**

Incredibly nimble, the RB12-14N3(L)(C) series offers high productivity and exceptional value in a light reach truck. An impressive achievement in a truck this size, it strikes the perfect balance between cutting-edge features and low total cost of operation.

SPECIFICATIONS

RB12N3L
RB14N3L
RB14N3C



Model shown: RB14N3C with option rail guidance for Drive - In racks

**WHEN
RELIABILITY IS
EVERYTHING...**

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And with a host of exceptional ergonomic features, it's sure to be a favourite of operators. Adjustable seating, and a choice of adjustable controls make driving feel natural and incredibly intuitive for operators of all sizes.

Specially designed for drive-in racking applications, the RB14N3C model keeps the same compact chassis and performance, yet lifts to even greater heights.

BRAKES

- **High-efficiency regenerative braking**
This gives more effective control and reduces brake wear.

DRIVE

- **Intelligent Cornering System**
The truck senses the angle of a turn and reduces speed early for maximum stability and accurate, positive cornering.
- **Durable drive wheel**
Low-wear drive wheel means less maintenance and lower costs.

ELECTRICAL AND CONTROL SYSTEMS

- **Advanced on-board computer**
Stores power and hydraulic preference settings for up to 350 different users.



- **Stability Support System (S3)**
Hydraulic functions such as mast reach and mast tilt are automatically optimised along with a reach damping function to make pallet placement and retrieval safer and quicker. (Standard on N3C model, option on other models.)
- **S3 - 2 (option)**
Works to adjust maximum travel speed in relation to actual load weight for the best levels of safety and performance.

FORKS AND MAST

- **MaxVision mast**
This maximises operator field of vision for increased productivity and safety.
- **Level Assistance System**
Automatically detects the operator's intention and automatically stops when the forks are precisely at the right level. (N3C model option only)
- **Mast Tilt Control (MTC)**
The automatic damping function absorbs unwanted mast movements, reduces the speeds of tilt, side shift and angle, and ensures 80 percent faster mast stabilisation.
- **Low noise mast**
Efficient damping and cutting-edge design contribute to very low operational noise levels.

FRAME AND BODY

- **Modular design**
Limits the number of parts used meaning service engineers can carry fewer parts to keep the first-time fix rate incredibly high.
- **EasyAccess battery compartment**
This allows quick access for checks and maintenance.
- **Compact design**
1120mm width allows for easy operation in narrow spaces.

HYDRAULICS

- **Soft Motion**
A finely tuned algorithm adjusts reach, tilt and sideshift speed to greatly improve productivity and handling speed.



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please visit our website



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OPERATOR COMPARTMENT AND CONTROLS

- **Comfortable cabin, clear view and fast, accurate fork positioning**
This all helps to increase productivity and reduce risks of driver fatigue - even on the longest shifts.
- **Easy-access compartment**
Including ergonomic hand bars, low non-slip step and wide entry provides safe and effortless entry and exit.
- **Multifunctional Ergologic Joystick**
This intuitive and highly ergonomic joystick controls seven different functions, including lifting, lowering, reaching and tilting.
- **Automotive-style pedals**
Pedals are placed in a familiar position for intuitive operation.
- **PIN-code access**
Stops unauthorised truck use and keeps you aware of who's operating at all times.
- **Optional fingertip hydraulic controls**
Integrated, fully adjustable, and allows effortless precision.

STEERING SYSTEM

- **Mini steering wheel with floating armrest**
Ergonomically adjustable to reduce strain and lower risk of RSI.
- **360-degree steering (option)**
The operator can keep the truck in constant motion - saving seconds on every turn.
- **Midi steering wheel (option)**
Adjustable positioning with tilt function.



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mft2.eu/rb12n3

VDI - PERFORMANCE & DIMENSIONS

| CHARACTERISTICS | | | | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks | Mitsubishi Forklift Trucks |
|---------------------|--|-------|---------|-------------------------------|----------------------------|----------------------------|
| | | | | RB12N3L | RB14N3L | RB14N3C |
| 1.1 | Manufacturer | | | Battery | Battery | Battery |
| 1.2 | Manufacturer's model designation | | | Seated | Seated | Seated |
| 1.3 | Power source | | | 1200 | 1400 | 1400 |
| 1.4 | Operator type | | | 600 | 600 | 600 |
| 1.5 | Load capacity | Q | kg | see table | see table | see table |
| 1.6 | Load center distance | c | mm | 1378 | 1378 | 1378 |
| 1.8 | Load wheel axle to fork face (forks lowered) | x | mm | | | |
| 1.9 | Wheelbase | y | mm | | | |
| WEIGHT | | | | | | |
| 2.1b | Truck weight without load, with maximum battery weight | | kg | 2510 ¹⁰⁾ | 2710 ¹⁰⁾ | 3410 |
| 2.3 | Axle loadings without load & with maximum battery weight, drive / load side | | kg | 1656 / 854 ¹⁰⁾ | 1656 / 854 ¹⁰⁾ | 1780 / 1230 |
| 2.4 | Axle loading, mast forward, with nominal load, drive / load side | | kg | 669 / 3041 ¹⁰⁾ | 560 / 3350 ¹⁰⁾ | 570 / 3840 |
| 2.5 | Axle loading, mast retracted, with nominal load, drive / load side | | kg | 1395 / 2315 ¹⁰⁾ | 1351 / 2559 ¹⁰⁾ | 1450 / 2960 |
| WHEELS, DRIVE TRAIN | | | | | | |
| 3.1 | Tyres: PT = Power Thane, Vul = Vulkollan, P = Polyurethane, N = Nylon, R = Rubber drive / load side | | | Vul | Vul | Vul |
| 3.2 | Tyre dimensions, drive side | | mm | 355 x 155 | 355 x 155 | 355 x 155 |
| 3.3 | Tyre dimensions, load side | | mm | 220 x 85 | 220 x 85 | 220 x 85 |
| 3.5 | Number of wheels, load / drive side (x = driven) | | | 2 / 1 x | 2 / 1 x | 2 / 1 x |
| 3.7 | Track width (center of tyres), load side | b11 | mm | 995 | 995 | 995 |
| DIMENSIONS | | | | | | |
| 4.1 | Fork tilt, forwards / backwards | ∅, β | ° | 1 / 4 ⁹⁾ | 1 / 4 ⁹⁾ | 1 / 4 |
| 4.2a | Height with mast lowered | h1 | mm | see table | see table | see table |
| 4.3 | Free lift | h2 | mm | see table | see table | see table |
| 4.4 | Lift height | h3 | mm | see table | see table | see table |
| 4.5 | Height with mast extended | h4 | mm | see table | see table | see table |
| 4.7 | Height to top of overhead guard | h6 | mm | 2205 | 2205 | 2205 |
| 4.8 | Seat- or stand height | h7 | mm | 1146 ¹⁾ | 1146 ¹⁾ | 1146 ¹⁾ |
| 4.10 | Height of support legs | h8 | mm | 235 | 235 | 235 |
| 4.15 | Fork height, fully lowered | h13 | mm | 65 | 65 | 65 |
| 4.19 | Overall length | l1 | mm | see table | see table | see table |
| 4.20 | Length to fork face | l2 | mm | see table | see table | see table |
| 4.21 | Overall width | b1/b2 | mm | 1120 | 1120 | 1120 |
| 4.22 | Fork dimensions (thickness, width, length) | s/e/l | mm | 40 / 100 / 1150 | 40 / 100 / 1150 | 40 / 100 / 1150 |
| 4.23 | Fork carriage to DIN | | | FEM 2A | FEM 2A | FEM 2A |
| 4.24 | Fork carriage width | b3 | mm | 910 | 910 | 830 |
| 4.25 | Outside width over forks (minimum / maximum) | b5 | mm | 316 / 697 | 316 / 697 | 316 / 697 |
| 4.26 | Inner width of support legs | b4 | mm | 900 | 900 | 900 |
| 4.28 | Mast reach | l4 | mm | see table | see table | see table |
| 4.32 | Ground clearance at center of wheelbase, (forks lowered) | m2 | mm | 70 | 70 | 70 |
| 4.33a | Working aisle width (Ast) with 1000 x 1200 mm pallets, load crosswise | Ast | mm | see table | see table | see table |
| 4.34a | Working aisle width (Ast) with 800 x 1200 mm pallets, load lengthwise | Ast | mm | see table | see table | see table |
| 4.35 | Turning radius | Wa | mm | see table | see table | see table |
| 4.37 | Truck length including support legs | l7 | mm | 1725 | 1725 | 1725 |
| PERFORMANCE | | | | | | |
| 5.1 | Travel speed, with / without load | | km/h | 12.3 / 12.5 | 12.3 / 12.5 | 12.3 / 12.5 |
| 5.2 | Lifting speed, with / without load | | m/s | 0.46 / 0.54 ¹⁰⁾ | 0.37 / 0.54 ¹⁰⁾ | 0.32 / 0.49 |
| 5.3 | Lowering speed, with / without load | | m/s | 0.58 / 0.60 ¹⁰⁾ | 0.58 / 0.60 ¹⁰⁾ | 0.57 / 0.48 |
| 5.5 | Rated drawbar pull, with / without load | | N | 0.2 / 0.2 | 0.2 / 0.2 | 0.2 / 0.2 |
| 5.8 | Maximum gradeability with / without load | | % | 13.1 / 19.6 | 13.1 / 19.6 | 13.1 / 19.6 |
| 5.9 | Acceleration time (10 metres) with / without load | | s | 4.9 / 4.4 | 4.9 / 4.4 | 4.9 / 4.4 |
| 5.10 | Service brakes (mechanical / hydraulic / electric / pneumatic) | | | Electric | Electric | Electric |
| ELECTRIC MOTORS | | | | | | |
| 6.1 | Drive motor capacity (60 min. short duty) | | kW | 5.9 | 5.9 | 5.9 |
| 6.2 | Lift motor output at 15% duty factor | | kW | 11 | 11 | 11 |
| 6.4 | Battery voltage/capacity at 5-hour discharge | | V/Ah | 48 - 300 ¹¹⁾ / 465 | 48 - 465 / 620 | 48 - 465 / 620 / 775 |
| 6.5 | Battery weight | | kg | 533 / 708 | 708 / 890 | 708 / 890 / 1063 |
| 6.6b | Energy consumption according to VDI 60 cycle | | kW / h | 5.1 | 5.1 | 5.1 |
| MISCELLANEOUS | | | | | | |
| 8.1 | Type of drive control | | | Stepless | Stepless | Stepless |
| 10.1 | Maximum operating pressure for attachments | | bar | 150 | 150 | 150 |
| 10.2 | Oil flow for attachments | | l / min | 25 | 25 | 25 |
| 10.7 | Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 4871 in work LpAZ | | dB(A) | 57.4 | 57.4 | 57.4 |

RB12-14N3(L)(C) Series LIGHT AND NARROW REACH TRUCKS

1.2 – 1.4 tonnes



- 1) Measured with standard seat to SIP point
- 9) Mast tilt
- 10) T mast
- 11) DTFV mast

MAST PERFORMANCE AND CAPACITY

RB12-14N3(L)(C) Series

| RB12N3L - RB14N3L | | | | |
|-------------------|--------------------|----------|----------------|----------|
| MAST TYPE | h3 + h13 mm | h1 mm | h2 + h13 mm | h4 mm |
| T DUPLIX | 3200 | 2185 | 175 | 3740 |
| | 3600 | 2385 | 175 | 4140 |
| | 3800 | 2485 | 175 | 4340 |
| | 4200 | 2685 | 175 | 4740 |
| | 4500 | 2835 | 175 | 5040 |
| DTFV TRIPLEX | 4800 | 2985 | 175 | 5340 |
| | 4800 | 2155 | 1615 | 5340 |
| | 5400 | 2355 | 1815 | 5940 |
| | 5700 | 2455 | 1915 | 6240 |
| | 6300 | 2655 | 2115 | 6840 |
| DTFV TRIPLEX | 6750 | 2805 | 2265 | 7290 |
| | 7250 ¹⁾ | 2972 | 2432 | 7790 |
| | 4800 | 2155 | 1615 | 5340 |
| | 5400 | 2355 | 1815 | 5940 |
| | 5700 | 2455 | 1915 | 6240 |
| DTFV TRIPLEX | 6300 | 2655 | 2115 | 6840 |
| | 6750 | 2805 | 2265 | 7290 |
| | 7250 | 2972 | 2432 | 7790 |
| | 7950 | 3205 | 2665 | 8490 |
| | 8450 | 3372 | 2832 | 8990 |
| DTFV TRIPLEX | 8950 | 3538 | 2998 | 9490 |

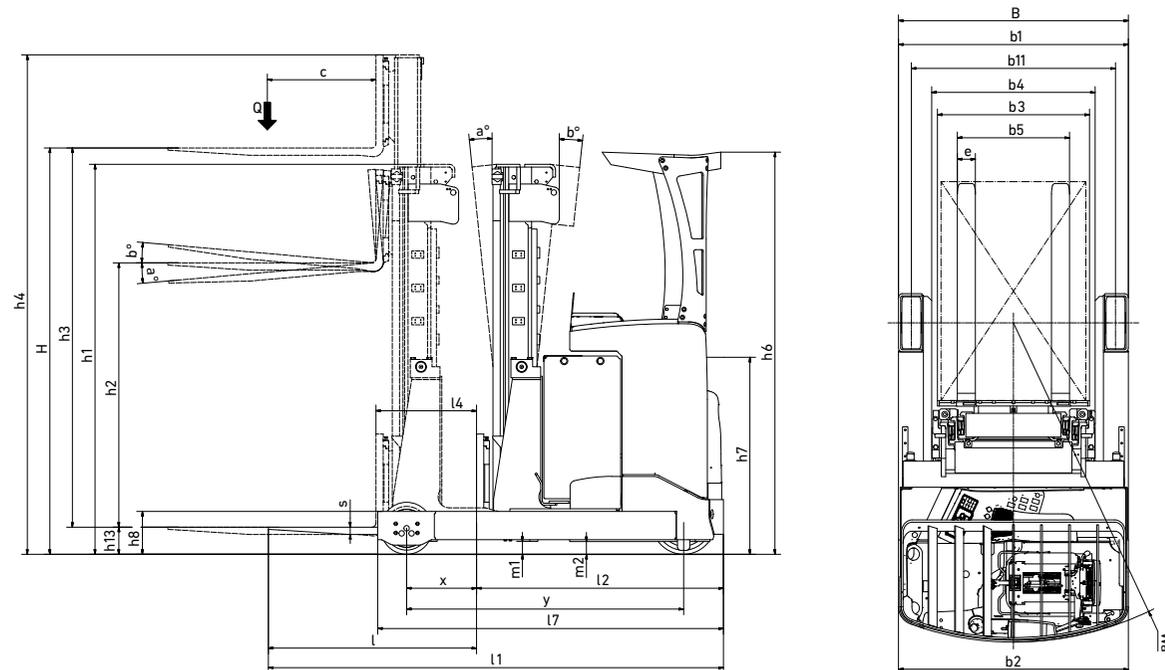
1) Only RB14N3L

h3+h13 = Lifting height
h1 = Lowered mast height
h2+h13 = Free lift
h4 = Raised mast height

Ast = Working aisle width with load
 $Ast = Wa + R + a$
Ast3 = Working aisle width (b12 < 1000 mm)
 $Ast3 = Wa + l6 - x + a$
Wa = Turning radius
 $R = \sqrt{(l6 + x)^2 + (b12 / 2 - b13)^2}$
a = Safety clearance = 2 x 100 mm
l6 = Pallet length (1200 mm)
x = Load wheel axle to fork face
b12 = Pallet width (800 or 1000 mm)
Q = Lifting capacity, rated load
c = Load centre (distance)

| MODEL | BATTERY CAPACITY | BATTERY WEIGHT | 4.33a | 4.34a | 4.28 | 4.20 | 4.19 | 1.8 | 4.35 |
|---------|------------------|----------------|--------------------|--------------------|-------------------|----------|----------|-------------------|----------|
| | Ah | kg | AST mm | AST mm | L4 mm | L2 mm | L1 mm | x mm | Wa mm |
| RB12N3L | 300 | 533 | 2643 | 2688 | 557 | 1193 | 2343 | 405 | 1598 |
| | 465 | 708 | 2694 ¹⁾ | 2751 ²⁾ | 487 ⁵⁾ | 1263 | 2413 | 335 ⁵⁾ | 1598 |
| RB14N3L | 465 | 708 | 2694 ¹⁾ | 2751 ²⁾ | 487 ⁵⁾ | 1263 | 2413 | 335 ⁵⁾ | 1598 |
| | 620 | 890 | 2762 ³⁾ | 2833 ⁴⁾ | 397 ⁶⁾ | 1353 | 2503 | 245 ⁵⁾ | 1598 |
| RB14N3C | 465 | 708 | 2716 | 2771 | 457 | 1293 | 2443 | 305 | 1598 |
| | 620 | 890 | 2786 | 2861 | 367 | 1383 | 2533 | 215 | 1598 |
| | 775 | 1063 | 2859 | 2945 | 227 | 1473 | 2623 | 125 | 1598 |

1) T mast +7mm
2) T mast +17mm
3) T mast +9mm
4) T mast +18mm
5) T mast -28mm
6) T mast -8mm



STANDARD EQUIPMENT & OPTIONS

- = Standard
- = Option

| | RB12N3L | RB14N3L | RB14N3C |
|--|---------|---------|---------|
| GENERAL | | | |
| Automatic electric parking brake | ● | ● | ● |
| Steering wheel angle indicator | ● | ● | ● |
| Battery indicator with cut out at 20% remaining battery level | ● | ● | ● |
| Multifunctional colour display | ● | ● | ● |
| Integrated sideshift DTFV mast | ● | ● | ● |
| Rail guidance for drive-in racking | - | - | ● |
| Chill store design, down to +1° Celsius | ● | ● | ● |
| Paper storage and cup holder | ● | ● | ● |
| Battery reach out | ● | ● | ● |
| Battery on rollers | ● | ● | ● |
| Other RAL-colour | ● | ● | ● |
| POWER SOURCE | | | |
| Lead-acid battery | ● | ● | ● |
| Battery cover plate | ● | ● | ● |
| MAST, FORKS AND CARRIAGE | | | |
| Tilting mast | ● | ● | ● |
| Fork tilt | - | - | ● |
| Integral fork positioner/sideshift DTFV mast | ● | ● | ● |
| Load backrest | ● | ● | ● |
| Load backrest in combination with fork positioner/sideshift | ● | ● | ● |
| Mast Tilt Control, MTC (std @ lift height > 7,2 m, Option < 7,2 m) | ● | ● | ● |
| Lift stop with-/without restart | ● | ● | ● |
| Lift height indicator (std in S3-2 Increased performance) | ● | ● | ● |
| Level selector | - | - | ● |
| Level assistance system, LAS | - | - | ● |
| Load weight indicator (std in S3-2 Increased performance) | ● | ● | ● |
| Horizontal forks | - | - | ● |
| Central position of sideshift | - | - | ● |
| S3 - Stability Support System with Soft Motion | ● | ● | ● |

RB12-14N3(L)(C) Series REACH TRUCKS

1.2 – 1.4 tonnes



Multifunctional colour display



Battery on rollers



Blue point safety light

STANDARD EQUIPMENT & OPTIONS

- = Standard
- = Option

| | RB12N3L | RB14N3L | RB14N3C |
|--|---------|---------|---------|
| DRIVE AND LIFT CONTROLS | | | |
| Electric power mini steering in floating armrest | ● | ● | ● |
| 180-degree steering | ● | ● | ● |
| 360-degree steering | ● | ● | ● |
| Active Spin Reduction | ● | ● | ● |
| Intelligent Cornering System (ICS) | ● | ● | ● |
| Hands-free direction control, HFDC, in accelerator pedal | ● | ● | ● |
| Hand-operated direction control | ● | ● | ● |
| Ergologic Joystick | ● | ● | ● |
| Fingertip controls | ● | ● | ● |
| Midi steering wheel | ● | ● | ● |
| Key switch entry | ● | ● | ● |
| Creep speed at preset level 500 mm | - | - | ● |
| Creep speed at other levels | - | - | ● |
| S3-2 Increased performance | ● | ● | - |
| ELECTRIC | | | |
| Blue / Red point safety light, towards driving direction | ● | ● | ● |
| Automatic logoff | ● | ● | ● |
| Working lights LED | ● | ● | ● |
| Working lights LED for cabin | ● | ● | ● |
| Warning light on the roof | ● | ● | ● |
| Warning light for Heated cabin | ● | ● | ● |
| 12 V connector | ● | ● | ● |
| Converter 48 - 12 V | ● | ● | ● |
| Radio with MP3 | ● | ● | ● |
| Service alarm | ● | ● | ● |
| OHG AND CABIN | | | |
| Heated cabin | ● | ● | ● |
| Window opening in cabin door | ● | ● | ● |
| 2-way intercom for cold store cabin | ● | ● | ● |
| Tapered overhead guard | - | - | ● |
| Mesh metal on overhead guard | ● | ● | ● |
| Heated seat – fabric | ● | ● | ● |
| Heated seat – PVC | ● | ● | ● |
| Rear view mirror | ● | ● | ● |
| Writing desk | ● | ● | ● |
| Equipment holder, RAM system size C | ● | ● | ● |
| Equipment holder, RAM system size C, 2 pcs | ● | ● | ● |
| Equipment holder, RAM system size D | ● | ● | ● |
| WHEEL OPTIONS | | | |
| Vulkan® traction wheel 93 Shore | ● | ● | ● |
| Tractothan® traction wheel 93 Shore | ● | ● | ● |
| Load wheel Ø 220mm | ● | ● | ● |
| ENVIRONMENT | | | |
| Cold store design, 0C° to -30C° | ● | ● | ● |

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Ergologic joystick



Midi steering wheel



2-way intercom for cold store cabin

WHEN RELIABILITY IS EVERYTHING...



Like any product bearing the Mitsubishi Forklift Trucks name, our materials handling equipment benefits from the tremendous heritage, huge resources and cutting-edge technology of one of the world's largest corporations – Mitsubishi Heavy Industries Group.

Engineering spacecraft, jet planes, power plants and more, MHI specialises in those technologies where performance, dependability and superiority decide your success or failure...

So when we promise you quality, reliability and value for money, you know it's a guarantee we have the power to deliver.

YOU'LL NEVER WORK ALONE

As your local authorised distributor, we are here to keep your trucks working – through our extensive experience, our technical excellence and our commitment to customer care.

We are your local experts, backed by efficient channels to the entire organisation of Mitsubishi Forklift Trucks.

No matter where you are, we are close by – with the capability to meet your needs.

Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options.

Specific performance requirements and locally available configurations should be discussed with your distributor.

We follow a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

QUALITY | RELIABILITY | VALUE FOR MONEY

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