MOVE THE WORLD FORWARD MITSUBISHI HEAVY INDUSTRIES GROUP

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...

MITSUBISHI FORKLIFT TRUCKS

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

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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

- **Load wheel brakes (option)**
  Allows braking with all three wheels for safer operation on lower-friction surfaces such as cold stores.

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

- **On-board diagnostics and fault memory folder**
  Speed up servicing and help prevent damage.
- **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 at 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.

There is more information on RB12-14N3(L)(C) Series on our website

mft2.eu/rb12n3

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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.

Midi steering wheel and fingertip controls

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VDI - PERFORMANCE & DIMENSIONS

RB12-14N3(L)(C) Series

LIGHT AND NARROW REACH TRUCKS

1.2 – 1.4 tonnes

	CHARACTERISTICS					
1.1	Manufacturer			Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks	Mitsubishi Forklift Trucks
1.2	Manufacturer's model designation			RB12N3L	RB14N3L	RB14N3C
1.3	Power source			Battery	Battery	Battery
1.4	Operator type			Seated	Seated	Seated
1.5	Load capacity	Q	kg	1200	1400	1400
1.6	Load center distance	c	mm	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	mm	see table	see table	see table
1.9	Wheelbase	y	mm	1378	1378	1378
	WEIGHT					
2.1b	Truck weight without load, with maximum battery weight		kg	2510[10)]	2710[10)]	3410
2.3	Axle loadings with nominal load & 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	∂, ß	°	1 / 4[9)]	1 / 4[9)]	1 / 4[9)]
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

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

Continuing improvement may lead to changes in these specifications

MAST PERFORMANCE AND CAPACITY

RB12-14N3(L)(C) Series

MAST TYPE	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 mm
RB12N3L - RB14N3L				
T DUPLEX	3200	2185	175	3740
	3600	2385	175	4140
	3800	2485	175	4340
	4200	2685	175	4740
	4500	2835	175	5040
	4800	2985	175	5340
DTFV TRIPLEX	4800	2155	1615	5340
	5400	2355	1815	5940
	5700	2455	1915	6240
	6300	2655	2115	6840
	6750	2805	2265	7290
	7250[1]	2972	2432	7790
RB14N3C				
DTFV TRIPLEX	4800	2155	1615	5340
	5400	2355	1815	5940
	5700	2455	1915	6240
	6300	2655	2115	6840
	6750	2805	2265	7290
	7250	2972	2432	7790
	7950	3205	2665	8490
	8450	3372	2832	8990
	8950	3538	2998	9490

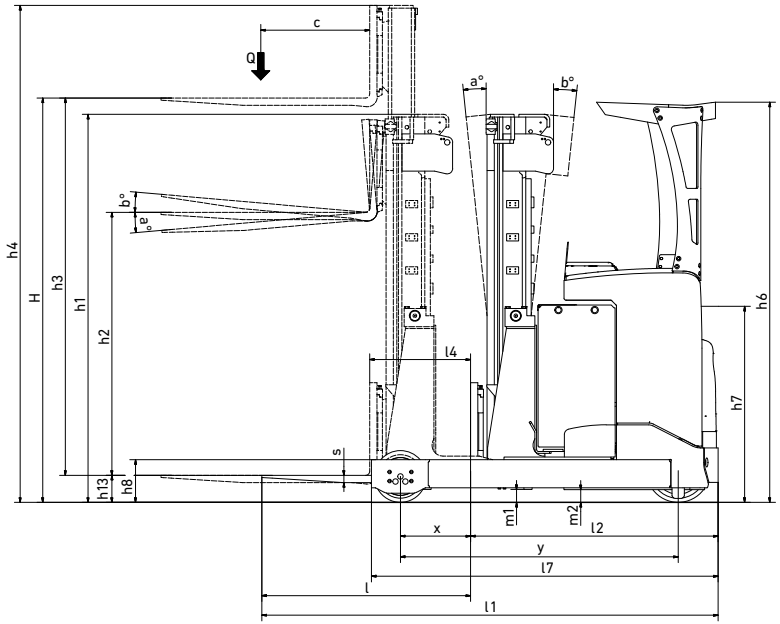
1) Only RB14N3L

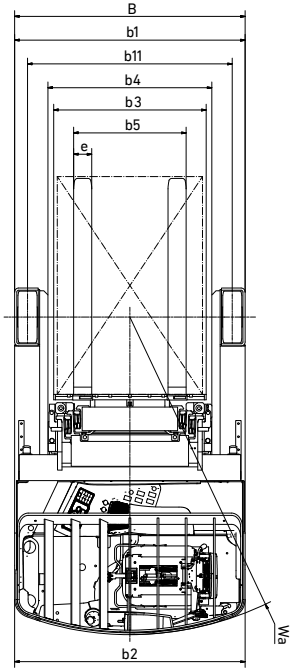
h3+h13 = Lifting height
h1 = Lowered mast height
h2+h13 = Free lift
h4 = Raised mast height

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 lenght (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 AST	4.34a AST	4.28 L4	4.20 L2	4.19 L1	1.8 x	4.35 Wa
	Ah	kg	mm	mm	mm	mm	mm	mm	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	●	●	●
ATC 3 truck computer with display and keyboard	●	●	●
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	○	○	●

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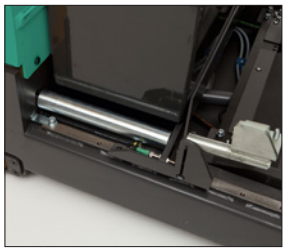
REACH TRUCKS

1.2 – 1.4 tonnes



Battery on rollers

Ergologic Joystick

Midi steering wheel

Blue point safety light

2-way intercom for cold store cabin

STANDARD EQUIPMENT & OPTIONS

● = Standard
● = Option

	RB12N3L	RB14N3L	RB14N3C
DRIVE AND LIFT CONTROLS			
Electric power mini steering in floating armrest	●	●	●
180-degreesteering	●	●	●
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	-	-	●
Impact sensors with display warning and horn	-	-	●
Impact sensors with display warning, horn and warning light on overhead guard	-	-	●
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			
Vulkolan® traction wheel 93 Shore	●	●	●
Tractothan® traction wheel 93 Shore	●	●	●
Load wheel Ø 220mm	●	●	●
ENVIRONMENT			
Cold store design, 0C° to -35C°	●	●	●

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1.2 – 1.4 tonnes

WHEN RELIABILITY IS EVERYTHING...

Like any product bearing the "MITSUBISHI" 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.

That's why every model in our award-winning and comprehensive range of lift trucks and warehouse equipment is built to a high specification – to ensure it keeps working for you. Day after day. Year after year. Whatever the job. Whatever the conditions.

YOU'LL NEVER WORK ALONE

As your local authorised dealer, 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.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised dealer or when you visit our website www.mitforklift.com

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

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MITSUBISHI FORKLIFT TRUCKS