# 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

## RB12-14N3(L)(C) Series



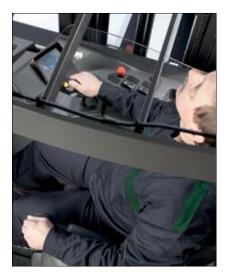




## RB12-14N3(L)(C) Series

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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

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.



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 guicker. (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 cuttingedge 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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#### **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

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.









#### **OPTIONAL LI-ION BATTERY SYSTEMS**

## MAKE YOUR FORKLIFT GO EVEN FURTHER



Tried, tested and proven in the field, lead-acid batteries have been the long-standing choice for companies employing electric lift trucks. However, with long charging times, demanding maintenance requirements, the need for extra batteries, and high risk of operator misuse, day-to-day use can be a challenge.

Fortunately, there's a new battery system on the block: Li-ion from Mitsubishi Forklift Trucks.

Designed to meet your business' demands — including multi-shift (24/7) operations — without the need for spare batteries, our high-performance Li-ion battery system is up to 30% more efficient than lead-acid counterparts. Plus, it's virtually error-proof, thanks to its ultra-low-maintenance design which prevents cell damage.

Gas-emission free
 No need for air ventilation.

Exceptional high battery and charger efficiency

State-of-the-art technology delivers up to 30% more power efficiency than lead-acid batteries.

Maintenance-free design

No need for daily checks and water re-fills. This reduces the risk of operators damaging cells and reducing their lifetime. Needs a full charge each week to activate cell balancing.

 No need for spare batteries or charging room

You can save both space and costs in multi-shift applications, maximising profitability.

Quick charge capabilities

Just 15 minutes is all your battery needs to keep your truck going for a few more hours. It only takes 1 to 2 hours to fully charge a completely discharged battery.

Higher sustained voltage

This gives more consistent lifting and driving performance — particularly noticeable towards the end of a shift.

Multiple safety features

This includes circuit protection, deepdischarge and overcharge protection, and individual cell temperature and voltage monitoring.

On-the-go performance and monitoring

The system's integrated monitoring system has an easy-to-read display unit.

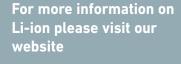
Wide choice of battery and charger capacities

The most suitable power supply can be matched to the exact requirements of a specific application.



# Fully integrated Li-ion battery

Features a sophisticated CANbus communication and an automatic ON/OFF synchronization between battery and truck. Battery level, notifications and alarms are integrated into the truck display, to secure clear and easy overview for the truck operator.





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### **VDI - PERFORMANCE & DIMENSIONS**

	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	С	mm	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x	m m	see table	see table	see table
1.9	Wheelbase	у	mm	1378	1378	1378
	WEIGHT					
2.1b	Truck weight without load, with maximum battery weight		kg	2780	3010	3410
2.3	Axle loadings without load & with maximum battery weight, drive / load side		kg	1630 / 950	1690 / 1120	1780 / 1230
2.4	Axle loading, mast forward, with nominal load, drive / load side		kg	490 / 3290	540 / 3670	570 / 3840
2.5	Axle loading, mast retracted, with nominal load, drive / load side		kg	1450 / 2330	1400 / 2810	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		•	1 ( (0)	4 ( (0)	
4.1	Fork tilt, forwards / backwards	∂, ß		1 / 4 <sup>9)</sup>	1 / 4 <sup>9)</sup>	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 Height of support legs	h7	mm	11461)	11461)	11461)
4.10	Fork height, fully lowered	h8	mm	235	235	235
4.15	Overall length	h13	mm	65 see table	65	65
4.19	Length to fork face	I1 I2	mm	see table	see table see table	see table see table
4.20	Overall width		mm			
4.21	Fork dimensions (thickness, width, length)	b1/b2 s/e/l	mm	1120 40 / 100 / 1150	1120 40 / 100 / 1150	1120 40 / 100 / 1150
4.22 4.23	Fork carriage to DIN	S/E/I	mm	FEM 2A	FEM 2A	FEM 2A
4.23	Fork carriage width	b3	mm	910	910	830
4.24	Outside width over forks (minimum / maximum)	b5	mm mm	316 / 697	316 / 697	316 / 697
4.25	Inner width of support legs	b4		900	900	900
4.28	Mast reach	14	mm mm	see table	see table	see table
4.20	Ground clearance at center of wheelbase, (forks lowered)	m2	mm	70	70	70
4.32 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	17	mm	1725	1725	1725
4.57	PERFORMANCE	.,	111111	1723	1723	1723
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	0.50 / 0.65	0.49 / 0.65	0.32 / 0.49
5.3	Lowering speed, with / without load		m/s	0.58 / 0.55	0.59 / 0.55	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
50	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 - 30011) / 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
			- 0.7			



RB12-14N3(L)(C) Series

## **LIGHT AND NARROW REACH TRUCKS**

1.2 – 1.4 tonnes



<sup>1)</sup> Measured with standard seat to SIP point

<sup>9)</sup> Mast tilt

<sup>11)</sup> DTFV mast

#### MAST PERFORMANCE AND CAPACITY

#### SENSÍA ES

## RB12-14N3(L)(C) Series

RB12N3L - RB14N3L									
MAST TYPE	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 mm					
	4800	2153	1645	5345					
	5400	2353	1854	5945					
DTFV	5700	2453	1945	6245					
TRIPLEX	6300	2653	2145	6845					
	6750	2803	2295	7295					
	7250 <sup>1)</sup>	2970	2462	7795					
RB14N3C									
	4800	2155	1615	5340					
	5400	2355	1815	5940					
	5700	2455	1915	6240					
	6300	2655	2115	6840					
DTFV TRIPLEX	6750	2805	2265	7290					
IRIPLEX	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

= Raised mast height

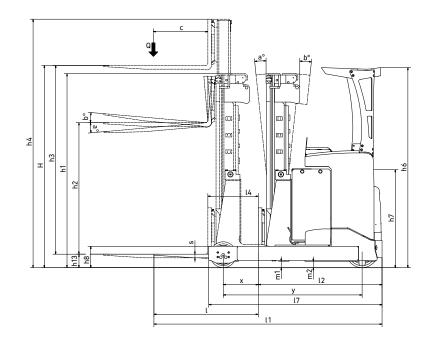
Ast =  $Wa + \sqrt{(16 - x)^2 + (b12 / 2)^2} + a$ Ast = Working aisle width with load Wa = Turning radius

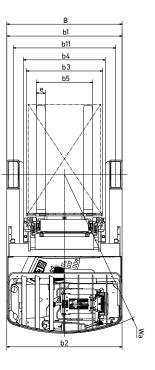
l6 = Pallet lenght (1200 mm)

x = Load wheel axle to fork face b12 = Pallet width (800 or 1000 mm) a = Safety clearance = 2 x 100 mm

= Lifting capacity, rated load = 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
	310	533	2643	2688	557	1193	2343	405	1598
RB12N3L	465	708	2694	2751	487	1263	2413	335	1598
	465	708	2694	2751	487	1263	2413	335	1598
RB14N3L	620	890	2762	2833	397	1353	2503	245	1598
	465	708	2716	2778	457	1293	2443	305	1598
RB14N3C	620	890	2786	2861	367	1383	2533	215	1598
	775	1063	2859	2945	227	1473	2623	125	1598





## **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	•	•	•
Li-ion 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	•	•	•

<sup>\*</sup> Not in combination Cold store design,  $0\text{C}^\circ$  to  $-30\text{C}^\circ$ 

## SENSÍA ES

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		5544000	
= 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 (CSM)	•	•	•
2-Way intercom for cold store cabin (CSM)	•	•	•
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	•	0	•
Load wheel Ø 220mm	•	•	•
ENVIRONMENT		_	
Cold store design, OC° to -30C°	•	•	•

### SENSÍA ES

RB12-14N3(L)(C) Series

## **REACH TRUCKS**

1.2 – 1.4 tonnes



Ergologic joystick

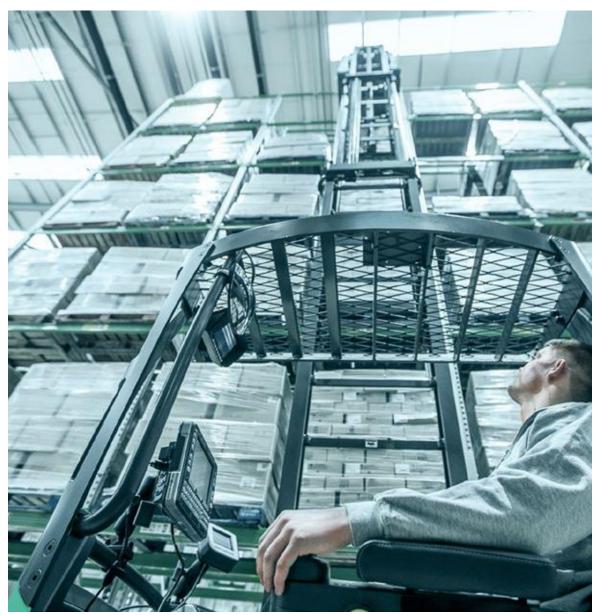


Midi steering wheel



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.

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 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.

Discover how Mitsubishi Forklift Trucks give you more from your local authorised distributor 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.

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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