Logisnext

RB12-14N3(L)(C) Series

SENSiA ES

LIGHT REACH TRUCKS

1.2 - 1.4 tonnes

SMALL IN SIZE
BIG ON FEATURES

The incredibly nimble SENSiA ES light reach truck balances cutting-edge features with low total cost of operation to deliver high productivity and exceptional value.

SPECIFICATIONS

RB12N3L
RB14N3L
RB14N3C



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

WHEN
RELIABILITY IS
EVERYTHING...

MITSUBISHI
FORKLIFT TRUCKS

SENSiA ES

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BRAKES

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

DRIVE

- **Active Spin Reduction (ASR)**
  Helps to stop the drive wheel spinning. This minimises grip loss while also reducing wear on the wheel.
- **Intelligent Cornering System (ICS)**
  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.
- **LoadSteady**
  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.)
- **LoadSteady+**
  Works to adjust maximum travel speed in relation to actual load weight for the best levels of safety and performance. (Option)

FORKS AND MAST

- **MaxVision mast and overhead guard**
  This maximises operator field of vision for increased productivity and safety.
- **Level Assistance System**
  This patented system detects the operator's intention and automatically stops when the forks are at precisely at the right level. (N3C model option only)
- **Automatic Mast Damping**
  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.
- **RapidAccess battery compartment**
  Enables easy battery access for checks and maintenance.
- **Compact design**
  1120mm width allows for easy operation in narrow spaces.

HYDRAULICS

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

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. (Option)
- **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.
- **Fingertip hydraulic controls**
  Integrated, fully adjustable, and allows effortless precision. (Option)
- **Convex backrest padding for natural body movement**
  Encourages a smoother torso rotation between forward driving and load handling, reducing strain and improving operator comfort during frequent direction changes.
- **Tilting seat with sliding base**
  This patented feature keeps the operator comfortably supported when looking up at high lifts, maintaining a natural posture and ensuring they remain safely within the protective cabin.





For more information on SENSiA ES Series please visit our website

mft2.eu/rb12n3

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STEERING SYSTEM

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





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mft2.eu/rb12n3

SENSIA ES

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, deep-discharge 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.



Clean Li-ion batteries are ideal for sensitive environments such as those in the food or packaging industries.

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.

For more information on Li-ion please visit our website



mft2.eu/lion

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	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	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					
4.1	Fork tilt, forwards / backwards	∂, ß	°	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	0.50 / 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
	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

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LIGHT AND NARROW REACH TRUCKS

1.2 – 1.4 tonnes



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

Continuing improvement may lead to changes in these specifications

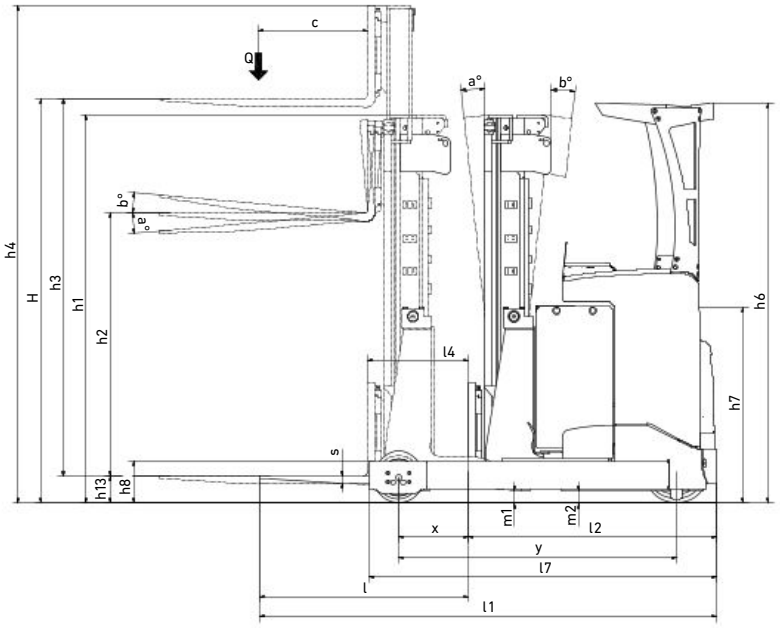
MAST PERFORMANCE AND CAPACITY

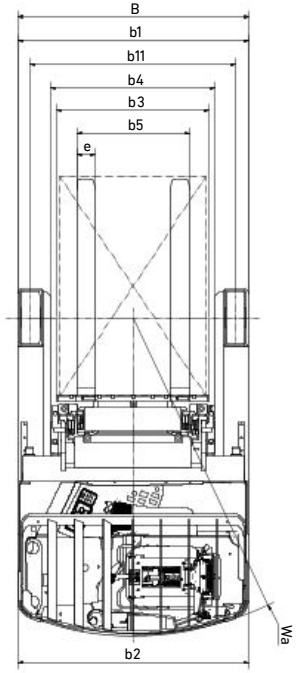
SENSIA ES

RB12-14N3(L)(C) Series

RB12N3L - RB14N3L				
MAST TYPE	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 mm
DTFV TRIPLEX	4800	2153	1645	5345
	5400	2353	1854	5945
	5700	2453	1945	6245
	6300	2653	2145	6845
	6750	2803	2295	7295
	7250[1)]	2970	2462	7795
RB14N3C				
DTFV TRIPLEX	4800	2155	1630	5345
	4900	2190	1665	5445
	5000	2225	1690	5545
	5100	2255	1730	5645
	5200	2290	1760	5745
	5300	2325	1790	5845
	5400	2355	1830	5945
	5500	2390	1860	6045
	5600	2425	1890	6145
	5700	2455	1930	6245
	5800	2490	1960	6345
	5900	2525	1990	6445
	6000	2555	2030	6545
	6100	2590	2060	6645
	6200	2625	2090	6745
	6300	2655	2130	6845
	6400	2690	2160	6945
	6500	2725	2190	7045
	6600	2755	2230	7145
	6750	2805	2280	7295
	6900	2855	2330	7445
	7000	2890	2360	7545
	7100	2925	2390	7645
	7250	2975	2440	7795
	7950	3205	2680	8495
	8450	3375	2840	8995
	8950	3540	3010	9495

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





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

Ast = $Wa + \sqrt{(l6 - x)^2 + (b12 / 2)^2} + a$
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
Q = Lifting capacity, rated load
c = Load centre (distance)

1) Only RB14N3L

Continuing improvement may lead to changes in these specifications

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	●	●	●
Automatic Mast Damping (std @ lift height > 7.2 m, Option < 7.2 m)	●	●	●
Lift stop with-/without restart	●	●	●
Lift height indicator (std in LoadSteady+ Increased performance)	●	●	●
Level selector	-	-	●
Level assistance system, LAS	-	-	●
Load weight indicator (std in LoadSteady+ Increased performance)	●	●	●
Horizontal forks	-	-	●
Central position of sideshift	-	-	●
LoadSteady with MotionSteady	●	●	●

* Not in combination Cold store design, 0C° to -30C°

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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 (ASR)	●	●	●
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	-	-	●
LS - 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	●	●	●
Load wheel Ø 220mm	●	●	●
ENVIRONMENT			
Cold store design, 0C° to -30C°	●	●	●

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REACH TRUCKS

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Ergologic joystick



Midi steering wheel



2-way intercom for cold store cabin

WHEN RELIABILITY IS EVERYTHING...

Logisnext

Every product bearing the Mitsubishi Forklift Trucks name is backed by the engineering expertise, global resources, and continuous innovation of Logisnext — a leading group dedicated to materials handling and intralogistics.

Logisnext brings together advanced truck design, energy solutions, and connected technologies to help businesses move goods more safely, efficiently and reliably... day after day, year after year.

So when we promise you quality, reliability and value for money, you know it's a guarantee we can 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. 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 the wider Mitsubishi Forklift Trucks organisation and the connected support of the Logisnext group.

No matter where you are, help is close by.



MADE IN EUROPE

info@mitforklift.com

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Full legal notice and up-to-date product information: www.mitforklift.com

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