

SENSIA Reach Trucks

and Multi-Way Reach Trucks

1.4 – 2.5 tonnes



*Ready to Perform
To Your Applications*



SENSiA

CREATING DISTINCTION

Mitsubishi designed **SENSiA** – a high performance truck (capable of reaching up to 13m rack height) possess the required aspect to help operator to stop thinking about the controls, and focus on the job in hand.

SENSiA, our industry-leading fingertip controls take another leap forward: responding naturally to the pressure of your touch. Progressive steering feels perfect at every speed, while acceleration, mast and cornering are familiar and smooth. It's simply instinctive.

Yes, the truck's state-of-the-art AC drive motor and hydraulics deliver impressive speed and lifting power in a compact, stable body. Yes, **SENSiA** has Mitsubishi's legendary build quality. And yes, this is our best mast yet.

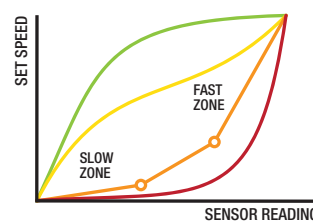
But at Mitsubishi, we know a reach truck is only as productive as its driver. So we also built a spacious, easy-access cabin that's free from distractions, ensured great all round visibility, and created a choice of custom drive modes to suit the operator's task, experience and skill.



*Picture is for illustration purpose only. Contact your dealership for more information.

SENSITIVE DRIVE SYSTEM

Sensitive Drive System (SDS), popular with drivers for its intuitive 'feel', SDS senses whether the truck is being operated assertively or cautiously –and then delivers a smoothly modulated performance for that specific situation.



— Fast response to full speed
— Medium speed response profile
— Slow speed response profile
— Typical controller curve

IMPEL

ERGONOMICS



SPACIOUS CABIN

Inside the wide open, easy-access cabin, everything is carefully designed to help the driver stay comfortable, focused and efficient – even during the longest shifts. Pedals are shaped, positioned and angled to minimise ankle stress, **while flexible, three-dimensional adjustment for the ergonomic armrest and full suspension seat** gives operators full control over their own driving position. No annoyances. No aches. Just pure productivity.



VIVID DIGITAL DISPLAY

SENSiA lets managers match the truck's drive settings to the driver and task. **PRO mode** maximise performance in the hands of an expert; **ECO mode** makes things simpler for inexperienced or part-time operators, while also prolonging battery life for a longer shift.

The **full-colour driver display** is visible from all angles, even in direct sunlight, and gives drivers simple, intuitive access to guidance, settings, warnings and alarms –reinforcing good practice, even at the busiest times. It all adds up to efficient, mistake-free handling.



FUTURISTIC FINGERTIP CONTROL

1. F2 Functional Button for additional information
2. Horn
3. Directional Drive Selector
4. Lift Level
5. Tilt Lever
6. Side-Shifter Lever



MORE POWER MORE STORAGE

With powerful, AC motors, class-leading hydraulics and revolutionary mast design, **SENSiA** has the strength to lift bigger loads, to higher heights, than most other trucks of its size.

Or, to put it another way, you can have a smaller truck than you thought.

That means aisles can be smaller, operating spaces tighter, and you can make the best use of the precious space you have available.

Of course, if that's not going to slow your operators down, you also need a truck that's nimble, and easy to manoeuvre with absolute precision. Oh, and great all round visibility is a must, to give the clearest possible view of the truck, the load and the space available.

That's why **SENSiA** has **unlimited, 360-degree electric steering**, with a firm, progressive feel... and exceptional visibility through the revolutionary **Visionmast**, clear-view fork carriage and overhead guard and the open, uncluttered cabin. At any time, the operator knows exactly what's going on. And the mast design doesn't just give great visibility. It's the strongest and most stable we've ever made – with a choice of sway control systems for fast, accurate work at height... **and the confidence to deliver.**



There's no waiting for mast sway, either. You've a choice of Passive Sway Control and our award-winning Active Sway Control option, to get the load where it needs to be – quickly, and in one piece.





More reliability too...



SENSiA literally has performance to spare. Chances are, you won't find yourself pushing the truck to the limit – in speed or lifting capacity – any time soon.

And that's just one way that **SENSiA** minimises downtime and service costs. **Temperature-controlled drive** and lift motors prevent overheating damage. **Regenerative braking** reduces brake wear. CAN bus electrics reduce wiring, and make the truck fast and easy to fix. **Clever battery compartment design** makes changing, charging and maintenance quick, simple and safe. Quite simply, **SENSiA** works harder, for more of the time.

SENSiA

YOUR ULTIMATE BUSINESS SOLUTION



Clear, informative display



Low non-slip step



Tilting battery cover



Ergonomic hand bars

Mitsubishi reach truck is specially engineered to take any operator's performance to the next level.

With class-leading **travel speeds of up to 14 km/h**, **SENSiA** reach trucks are easily tailored to your needs with a choice of **two performance modes**.

- Experienced drivers will fully exploit the higher performance capability of the Professional (**PRO**) mode.
- New or inexperienced warehouse staff will respond to the **Ecologic (ECO)** mode which has been configured to work naturally and economically in any environment.

*For more specific needs, the truck's settings can be **customised** by a service engineer.

SENSiA drives productivity higher through its futuristic fingertip control system – the most sensitive and accurate in the world. With its progressive, modulated fingertip response curves, it delivers a 'feel' and an accuracy that put drivers in total control. Together with the ergonomic armrest, **SENSiA** ensures operators stay focused, safe and productive – even through the longest shifts.

- **Revolutionary Visionmast** offers unrivalled forward vision and superb lifting ability.
- **Powerful AC drive motor** provides high torque, even at fast speeds, for rapid acceleration and smooth, quiet, controlled, efficient operation – and lowers service costs.
- **High energy drive motors** and hydraulic systems deliver exceptional shift length between charges or changes.
- **Choice of two driving modes (ECO and PRO)** tailors the truck's performance profile to your precise needs.
- **PRO mode** with high performance settings gives experienced operators complete control of the truck's efficiency and performance.

options include

- Extra hydraulic valve and hoses to fork carriage
- Telescopic forks
- Lifting height indicator and pre-height selector
- Camera with monitor
- Side shift and tilt centering
- Quick battery locking system, foot operated

capacities

RB14N2S 1.4 t	RB14N2HS 1.4 t	RB16N2S 1.6 t	RB16N2HS 1.6 t
RB16N2 1.5 t	RB16N2H 1.6 t	RB16N2C 1.6 t	RB16N2HC 1.6 t
RB20N2H 2.0 t	RB20N2X 2.0 t	RB25N2X 2.5 t	



Ready to Perform To Your Applications



Folding steering wheel console



Ergonomic armrest controls



Comfortable pedal layout



Easy-access cabin

- **ECO driving mode** encourages natural, efficient operations – reducing fuel costs.
- **Unlimited 360-degree electric steering** gives precise control with minimal effort.
- **High efficiency regenerative braking** means effective control and reduced brake wear.
- **Sensitive Drive System (SDS)** offers precise control of mast and truck behaviours for accurate, smooth and stable performance.
- **Passive Sway Control (PSC)** significantly reduces the risk of sway to safeguard lives and loads.
- **Award-winning Active Sway Control (ASC)** available as an option offers further protection, reducing delays caused by mast sway, and ensures accurate, smooth and stable performance.
- **Maintenance interval calculator** encourages correct servicing, for optimum component life and minimum downtime.
- **Temperature control** in drive and lift motors and controllers – prevents damage from overheating.
- **Battery rollers** make changes quick, easy and safe.
- **Spacious and comfortable cabin, clear view and fast, accurate fork positioning** increases productivity and reduces risks of driver fatigue – even on the longest shifts.
- **Easy-access cabin** with ergonomic hand bars and low non-slip step provides safe and effortless entry.
- **Folding steering wheel console** with adjustment for column length and angle, lifts up for easy access and ensures optimum position for each driver.
- **Full-suspension, fully adjustable seat** keeps driver safe, comfortable and alert through the longest shifts. (Luxury seat with lumbar support, electrical height adjustment and air or mechanical suspension is available as option.)
- **Ergonomic armrest** matches driver's natural operating position and is fully adjustable – reducing fatigue.
- **Patented fingertip control system with modulated response curves** is optimised for natural movement – for precise, effortless control.
- **Intuitive joystick** for accurate control with the palm, is available as an option with fourway hydraulic valve systems.
- **Easy-to-understand display communicates key information to driver** including guidance, warnings and alarms – encouraging good practice.
- **Highlift mast**, up to 13m rack height
- **Telescopic forks options**, for deep racking application.
- Cold store modification package
- Hot environment modification
- Cold store cabin



SENSIA

Specifications

Characteristics														
1.1	Manufacturer		Mitsubishi	Mitsubishi	Mitsubishi		Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		RB14N2S	RB14N2HS	RB16N2S		RB16N2HS	RB16N2	RB16N2H	RB16N2C	RB16N2HC	RB20N2H	RB20N2X	RB25N2X
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery	Battery		Battery	Battery	Battery	Battery	Battery	Battery	Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Seated	Seated	Seated		Seated	Seated	Seated	Seated	Seated	Seated	Seated	Seated
1.5	Load capacity	Q (kg)	1400	1400	1600		1600	1600	1600	1600	1600	2000	2000	2500
1.6	Load center distance	c (mm)	600	600	600		600	600	600	600	600	600	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	281	199	281		199	331	249	327	228	399	389	389
1.9	Wheelbase	y (mm)	1300	1300	1300		1300	1350	1350	1400	1400	1500	1500	1500
Weight														
2.1	Truck weight with load, with maximum battery weight	(kg)	4970	5697	5191		5897	5445	6171	5109	5639	6570	7065	7156
2.3	Axle loadings without load & with maximum battery weight, drive / load side	(kg)	2041/1529	2318/1979	2041/1550		2318/1979	2114/1731	2389/2182	1958/1551	2114 / 1925	2435/2135	2620/2445	2466/2190
2.4	Axle loading, mast forward, with nominal load, drive / load side	(kg)	721/4249	814/4883	706/4486		814/4883	735/4709	833/5338	628/4480	614 / 5024	910/5660	680/6385	675/6480
2.5	Axle loading, mast retracted, with nominal load, drive / load side	(kg)	1706/3264	1983/3714	1686/3506		1983/3714	1745/3699	2020/4151	1602/3507	1759 / 3880	2020/4550	2090/4975	1947/5208
Tyres														
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive / load side		PT	Vul	PT		Vul	PT	Vul	PT	Vul	Vul	Vul	Vul
3.2	Tyre dimensions, drive side	(mm)	Ø360*140	Ø360*140	Ø360*140		Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140	Ø360*140
3.3	Tyre dimensions, load side	(mm)	Ø285 × 75	Ø285 × 75	Ø285 × 75		Ø285 × 75	Ø285*130	Ø285*130	Ø285 × 75	Ø285 × 75	Ø285*130	Ø285*130	Ø285*130
3.5	Number of wheels, load / drive side, (x=driven)		2 / 1x	2 / 1x	2 / 1x		2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x	2 / 1x
3.7	Track width (center of tyres), load side	b11 (mm)	1195	1195	1195		1195	1140	1140	1025	1025	1140	1310	1310
Dimensions														
4.1	Fork tilt, forwards / backwards	α/β (°)	2 / 4	2 / 4	2 / 4		2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4	2 / 4
4.2	Height with mast lowered	h1 (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.3	Free lift	h2 (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.4	Lift height	h3 (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.5	Height, mast extended	h4 (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.7	Height to top of overhead guard	h6 (mm)	2200	2200	2200		2200	2200	2200	2200	2200	2200	2200	2200
4.8**	Seat- or stand height	h7 (mm)	1030	1030	1030		1030	1030	1030	1030	1030	1030	1030	1030
4.10	Height of support legs	h8 (mm)	360	360	360		360	360	360	360	360	360	360	360
4.15	Fork height, fully lowered	h13 (mm)	85	85	85		85	85	85	85	85	85	85	85
4.19	Overall length	l1 (mm)	2404	2486	2404		2486	2404	2486	2458	2558	2486	2496	2496
4.20	Length to fork face	l2 (mm)	1254	1336	1254		1336	1254	1336	1308	1408	1336	1346	1346
4.21	Overall width	b1/b2 (mm)	1270	1270	1270		1270	1270	1270	1100	1100	1270	1440	1440
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	40 / 100 / 1150	40 / 100 / 1150	40/100/1150		40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	40 / 100 / 1150	50 / 100 / 1150	50 / 100 / 1150	50 / 100 / 1150
4.23	Fork carriage to DIN 15173		FEM 2A	FEM 2A	FEM 2A		FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A	FEM 2A
4.24	Fork carriage width	b3 (mm)	720	720	720		720	720	720	720	720	720	720	720
4.25	Outside width over forks (minimum / maximum)	b5 (mm)	315-710	315-710	315-710		315-710	315-710	315-710	315-710	315-710	315-710	315-710	315-710
4.26	Innerwidth of the support legs	b4 (mm)	1070	1070	1070		1070	900	900	900	900	900	1070	1070
4.28	Mast reach	l4 (mm)	463	381	463		381	513	432	510	410	582	572	572
4.32	Ground clearance at center of wheelbase, (forks lowered)	m2 (mm)	75	75	75		75	75	75	75	75	75	75	75
4.33/a	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise	Ast (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.34/a	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)	see table	see table	see table		see table	see table	see table	see table	see table	see table	see table	see table
4.35	Turning radius	Wa (mm)	1541	1541	1541		1541	1629	1629	1629	1629	1735	1749	1749
4.37	Truck length including support legs	l7 (mm)	1693	1693	1693		1693	1793	1793	1793	1793	1893	1893	1893
Performance														
5.1*****	Travel speed, with / without load	(km/h)	12 / 12	12 / 12	12 / 12		12 / 12	12 / 12	14 / 14	12 / 12	12 / 12	14 / 14	11 / 14	11 / 14
5.2	Lifting speed, with / without load	(m/s)	0.4 / 0.65	0.4 / 0.7	0.4 / 0.65		0.4 / 0.7	0.4 / 0.65	0.4 / 0.7	0.4 / 0.65	0.4 / 0.7	0.4 / 0.7	0.4 / 0.7	0.3 / 0.7
5.3	Lowering speed, with / without load	(m/s)	0.55 /0.5	0.55 / 0.5	0.55 / 0.5		0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5	0.55 / 0.5
5.4	Reach speed, with / without load	(m/s)	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2		0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2	0.2 / 0.2
5.8	Maximum gradeability, with / without load	(%)	10 / 15	10 / 15	10 / 15		10 / 15	10 / 15	10 / 15	10 / 15	10 / 15	10 / 15	10 / 15	10 / 15
5.9	Acceleration time (10 metres) with / without load	(s)	5.0 / 4.5	4.8 / 4.4	5.0 / 4.5		4.8 / 4.4	5.0 / 4.5	4.8 / 4.6	5.0 / 4.5	4.8 / 4.8	4.8 / 4.4	5.2 / 4.4	5.2 / 4.4
5.10	Service brake		Electric	Electric	Electric		Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric
Electric motors														
6.1	Drive motor capacity (S2 60 min. short duty)	(kW)	7.5	7.5	7.5		7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5
6.2	Lift motor output at S3 15% duty factor	(kW)	10	14	10		14	10	14	10	14	14	14	14
6.4	Battery voltage/capacity at 5-hour discharge	(V/Ah)	48 / 465, 620, 775	48 / 620, 775	48 / 465, 620, 775		48 / 620, 775	48 / 465, 620, 775	48 / 620, 775	48 / 465, 620	48 / 620	48 / 620, 775, 930	48 / 620, 775, 930	48 / 620, 775, 930
6.5	Battery weight	(kg)	700, 900, 1100	900, 1100	700, 900, 1100		900, 1100	700, 900, 1100	900, 1100	700, 900	900	900, 1100, 1300	900, 1100, 1300	900, 1100, 1300
Miscellaneous														
8.1	Type of drive control		Stepless	Stepless	Stepless		Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless	Stepless
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))	66	63	66		63	66	63	66	63	63	63	63
10.7.1***	Level of noise at the ear level of the driver according to EN 12 053:2001 and EN ISO 487, drive/lift/idle LpAZ	(dB(A))	58 / 73 / 50	61 / 69 / 48	58 / 73 / 50		61 / 69 / 48	58 / 73 / 50	61 / 69 / 48	58 / 73 / 50	61 / 69 / 48	61 / 69 / 48	61 / 69 / 48	61 / 69 / 48
****	Body tremble according to EN 13 059:2002	(m/s²)	0.31	0.31	0.31		0.31	0.31	0.31	0.31	0.31	0.31	0.31	0.31
****	Hand tremble according to EN 13 059:2002	(m/s²)	< 2.5	< 2.5	< 2.5		< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5	< 2.5

** Measured with standard seat
*** Inaccuracy of 4dB (A)
**** Body tremble measured with air suspended seat.
***** Max drive speed to fork direction 9 km / h

Continuing improvement may lead to changes in these specifications.

Safety clearance = $2 \times 100 \text{ mm}$
 $\sqrt{(l6 + x)^2 + (b12 / 2)^2}$
Pallet length (1200 mm)
Pallet width (800mm or 1000mm)
Lifting capacity, rated load
Load centre (distance)

The drawing consists of two views: a side view (top) and a top view (bottom).
Side View Dimensions:
- $h1$: Total height to the top of the mast.
- $h6$: Height to the top of the counterweight.
- $h7$: Height to the top of the operator's seat.
- $m2$: Ground clearance at the front wheel.
- $l1$: Overall length.
- $l2$: Wheelbase.
- $l4$: Distance from rear wheel to the front of the mast.
- $l7$: Distance from front wheel to the center of gravity (CG).
- y : Distance from front wheel to the rear of the counterweight.
- s : Ground clearance at the rear wheel.
- $h8$: Height of the rear wheel.
- $h2$: Height of the mast at the rear.
- $h3$: Height of the mast at the front.
- $ht3$: Height of the front wheel.
- $h4$: Total height to the top of the mast.
- c : Mast tilt angle.
- q : Tilt angle of the load.
- α : Angle between the mast and the vertical.
- β : Angle between the load and the vertical.
- l : Load center distance.
- $h1$: Total height to the top of the mast.
- $h6$: Height to the top of the counterweight.
- $h7$: Height to the top of the operator's seat.
- $m2$: Ground clearance at the front wheel.
- $l1$: Overall length.
- $l2$: Wheelbase.
- $l4$: Distance from rear wheel to the front of the mast.
- $l7$: Distance from front wheel to the center of gravity (CG).
- y : Distance from front wheel to the rear of the counterweight.
- s : Ground clearance at the rear wheel.
- $h8$: Height of the rear wheel.
- $h2$: Height of the mast at the rear.
- $h3$: Height of the mast at the front.
- $ht3$: Height of the front wheel.
- $h4$: Total height to the top of the mast.
- c : Mast tilt angle.
- q : Tilt angle of the load.
- α : Angle between the mast and the vertical.
- β : Angle between the load and the vertical.
- l : Load center distance.

Top View Dimensions:
- $a/2$: Distance from the centerline to the side of the counterweight.
- $l7$: Overall width.
- $l2$: Wheelbase.
- x : Distance from the centerline to the rear of the counterweight.
- $l6$: Distance from the centerline to the front of the mast.
- Wa : Weight of the counterweight.
- e : Distance from the centerline to the front of the mast.
- R : Radius of the mast.
- $b5$: Width of the counterweight.
- $b3$: Width of the mast.
- $b12$: Width of the mast.
- $b4$: Width of the mast.
- $b11$: Width of the mast.
- $b1$: Width of the mast.

RB14N2S, RB16N2S, RB16N2, RB16N2C				
Mast Type	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 ¹⁾ mm
Triplex	4800	2210	1560	5630
	5400	2410	1760	6230
	5700	2510	1860	6530
	5900	2577	1927	6730
	6300	2710	2060	7130
	7000	2943	2293	7830
	7500	3110	2460	8330
RB14N2HS, RB16N2HS, RB16N2HC				
Mast Type	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 ¹⁾ mm
Triplex	8000	3297	2647	8830
	8500	3463	2813	9330
	9000	3785	3135	9830
RB16N2H				
Mast Type	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 ¹⁾ mm
Triplex	8000	3297	2647	8830
	8500	3463	2813	9330
	9000	3785	3135	9830
	9500	3952	3302	10330
	10000	4118	3468	10830
	10500	4285	3635	11330
	11000	4452	3802	11830
	11500	4618	3968	12330
RB20N2H, RB25N2X				
Mast Type	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 ¹⁾ mm
Triplex	4800	2230	1580	5630
	5400	2430	1780	6230
	5700	2530	1880	6530
	5900	2597	1947	6730
	6300	2730	2080	7130
	7000	2963	2313	7830
	7500	3130	2480	8330
	8000	3297	2647	8830
	8500	3463	2813	9330
	9000	3785	3135	9830
	9500	3952	3302	10330
	10000	4118	3468	10830
	10500	4285	3635	11330
	11000	4452	3802	11830
	11500	4618	3968	12330
RB20N2X				
Mast Type	h3 + h13 mm	h1 mm	h2 + h13 mm	h4 ¹⁾ mm
Triplex	12000	4785	4135	12830
	12500	4952	4302	13330
	13000	5118	4468	13830

Model	Battery Capacity	Battery Weight	4.33 (1000x1200mm crosswise)		4.34 (800x1200mm lengthwise)		L4	L2	L1	x
			Ast	Ast3	Ast	Ast3	4.28	4.20	4.19	1.8
	Ah	kg	mm	mm	mm	mm	mm	mm	mm	mm
RB14N2S	465	700	2684	2466	2750	2666	463	1254	2404	281
	620	900	2740	2538	2816	2738	391	1326	2476	209
	775	1100	2798	2610	2883	2810	319	1398	2548	137
RB14N2HS	620	900	2748	2548	2825	2748	382	1336	2486	199
	775	1100	2806	2620	2892	2820	310	1408	2558	127
RB16N2S	465	700	2684	2466	2750	2666	463	1254	2404	281
	620	900	2740	2538	2816	2738	391	1326	2476	209
	775	1100	2798	2610	2883	2810	319	1398	2548	137
RB16N2HS	620	900	2748	2548	2825	2748	382	1336	2486	199
	775	1100	2806	2620	2892	2820	310	1408	2558	127
RB16N2C	465	700	2730	2502	2789	2702	510	1308	2458	327
	620	900	2799	2592	2872	2792	420	1398	2548	237
RB16N2HC	620	900	2807	2602	2881	2802	410	1408	2558	228
RB16N2	465	700	2693	2463	2751	2663	513	1254	2404	331
	620	900	2748	2535	2817	2735	441	1326	2476	259
	775	1100	2804	2607	2883	2807	369	1398	2548	187
RB16N2H	620	900	2755	2545	2826	2745	432	1336	2486	249
	775	1100	2812	2617	2892	2817	360	1408	2558	177
RB20N2H	620	900	2784	2536	2830	2736	582	1336	2486	399
	775	1100	2837	2608	2895	2808	510	1408	2558	327
	930	1300	2892	2680	2961	2880	438	1480	2630	255
	620	900	2805	2560	2853	2760	572	1346	2496	389
RB20N2X	775	1100	2858	2632	2918	2832	500	1418	2568	317
	930	1300	2913	2704	2984	2904	428	1490	2640	245
	620	900	2805	2560	2853	2760	572	1346	2496	389
RB25N2X	775	1100	2858	2632	2918	2832	500	1418	2568	317
	930	1300	2913	2704	2984	2904	428	1490	2640	245

**Pinpoint precision...
in every direction**



RBMK series Multi-way reach trucks

2.0 – 2.5 tonnes



Swing-open cab design



Featherlight hydraulic controls

These highly specialised trucks are designed to tackle the problem of handling long loads – such as pipes or timber – in very narrow aisles or other confined spaces. Their movement can be forward, backward, sideways, diagonal or rotational, as well as up and down. Together with convenient controls and full 360° turning of each wheel, this allows infinitely precise steering of the truck and pinpoint positioning of the load.

To optimise manoeuvrability, each support wheel has its own independent steering motor and braking system. Full programmability ensures that travel speed, acceleration and braking are suited to the application and operator.

- **Rapid lift and lower speeds** increase productivity.
- **High-frequency control unit for pump** ensures smooth, jolt-free performance for each hydraulic action.

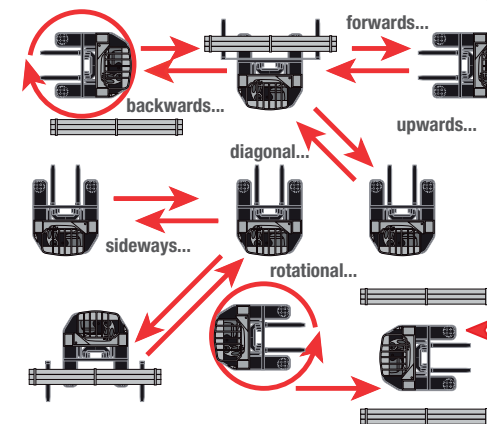
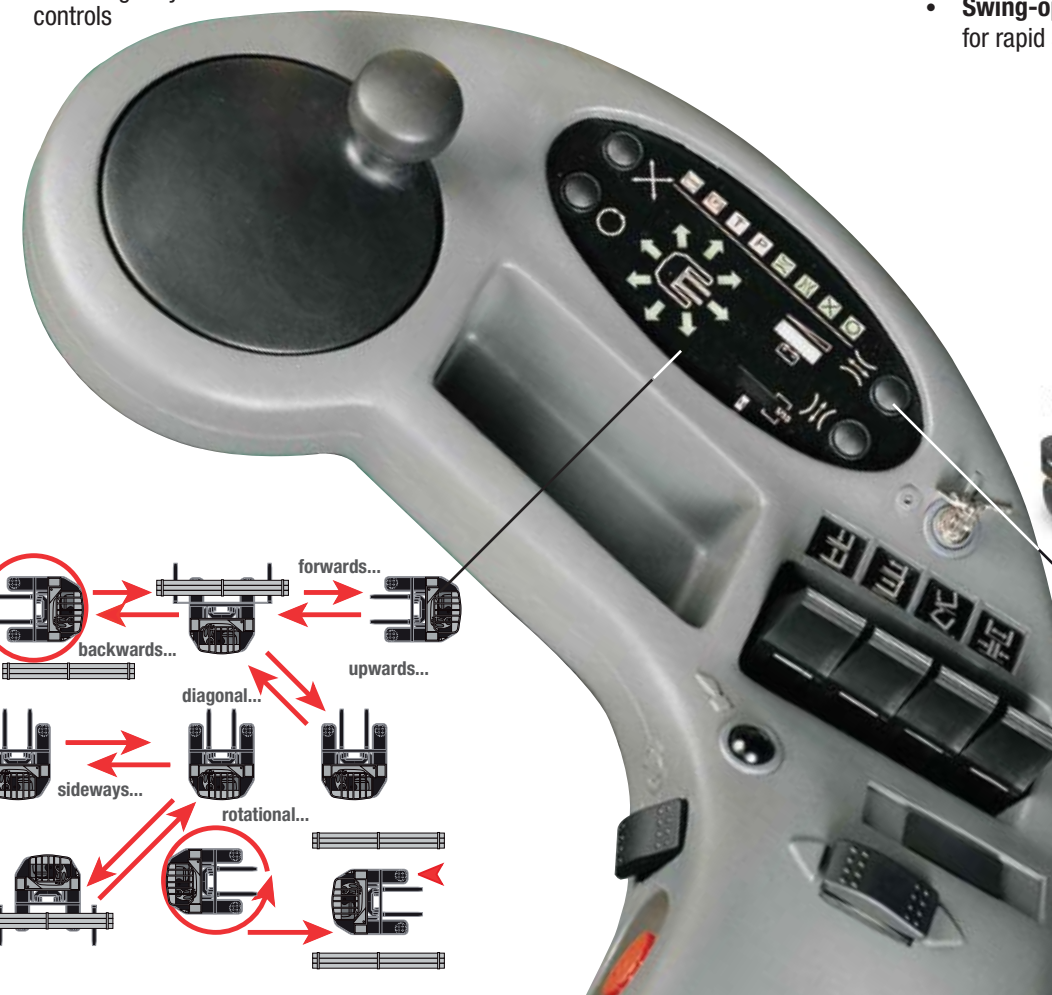
options include

- Lift height indicator
- Lift height pre-selector
- Hinged elbow support
- Radio and loudspeakers
- Warning light
- Seat headrest

capacities

RBM20K	RBM25K
2.0 t	2.5 t

- **Hydraulic fork spreader** is fitted as standard for efficient long-load handling.
- **Limitless 360° electric steering and feather-light hydraulic controls** ensure effortless operation, however long the shift.
- **Spacious, ergonomic cabin and smooth performances** allow operator to work in quiet comfort.
- **Clear-view mast with fork tilt and fork positioner** allows high visibility and precise positioning of loads.
- **Strong regenerative braking** speeds up work cycles, extends battery life and protects components from premature wear.
- **Built-in diagnostics and fault memory** mean fast troubleshooting and minimum downtime.
- **Swing-open cab design** gives total access for rapid servicing and repair.



modes

- Normal Travel
- Sideways Travel
- Diagonal Travel
- Rotation



Four driving modes to choose for

Style & Ergonomics

- **the swing-away control console** ensures easy access and optimum driving comfort
- **fully adjustable seat** for weight, backrest and driving position

Exceptional Performance

- **smooth and easy handling** of long loads in narrow aisles
- **impressive mast lift and lower speeds** enable high stacking efficiency
- **multi-directional travel:** forwards, backwards, parallel, sideways, and rotational. Travel modes are controlled by a selection switch

High Technology

- **AC technology** for all motors and controllers (drive, pump and steering motors)
- **AC drive motor** provides powerful acceleration, regenerative braking and stepless modulation of travel speed
- **high frequency control unit for the pump** results in smooth, jolt-free performance for each individual hydraulic function
- **each load wheel** has an independent steer motor, controller and brake system for enhanced manoeuvrability
- **all wheels turn 360°** in either direction for infinite steering precision
- **fully programmable functions** like speed, acceleration and braking for job-matched performance

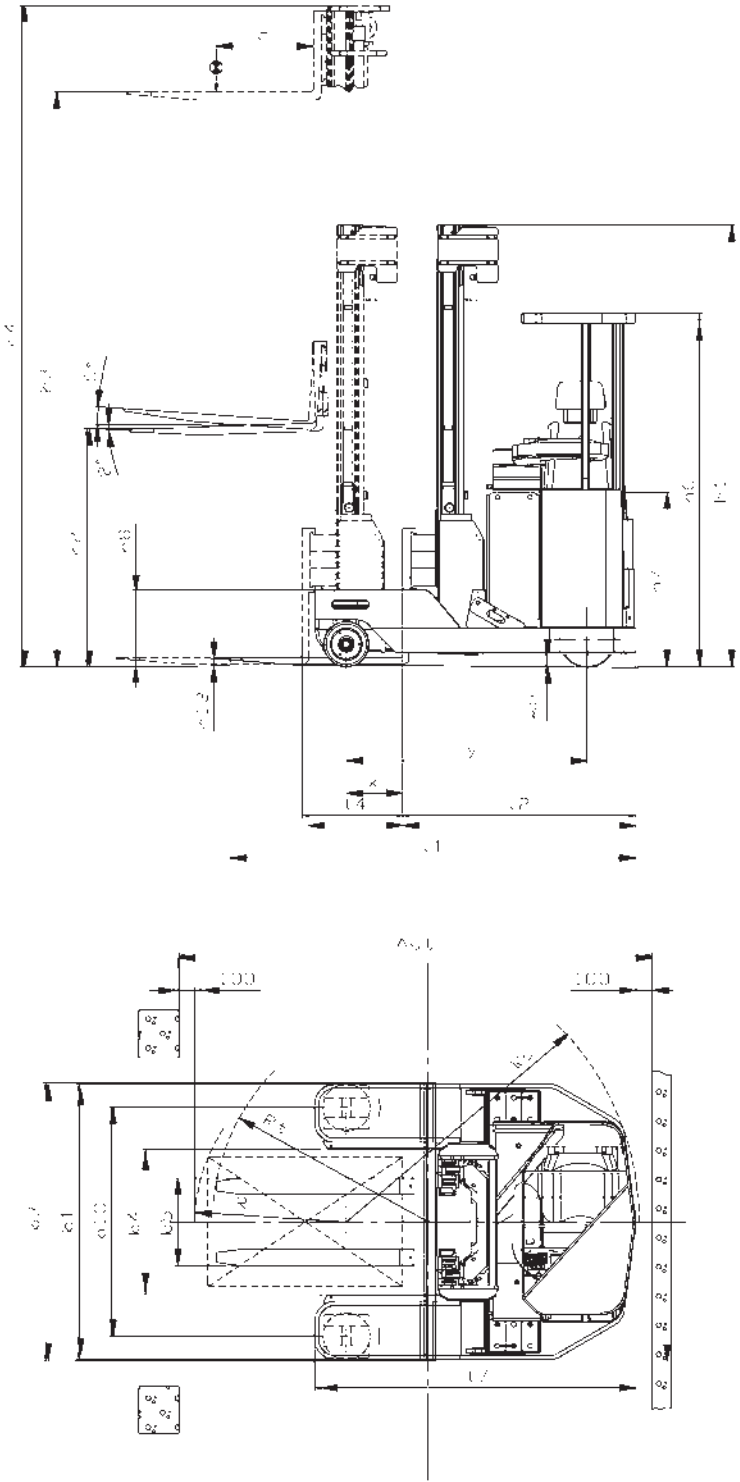
Options

- **lift height indicator**
- **hinged elbow support**
- **warning light**
- **seat head rest**
- **work lights**
- **rollers for lateral exchanging of battery**
- **special color for chassis**



Specifications

Characteristics				
1.1	Manufacturer (abbreviation)		Mitsubishi	Mitsubishi
1.2	Manufacturer's model designation		RBM20K	RBM25K
1.3	Power source: (battery, diesel, LP gas, petrol)		Battery	Battery
1.4	Operator type: pedestrian, (operator)-standing, -seated		Sit-on	Sit-on
1.5	Load capacity	Q (kg)	2.000	2.500
1.6	Load centre distance	c (mm)	600	600
1.8	Load wheel axle to fork face (forks lowered)	x (mm)	(see table)	(see table)
1.9	Wheelbase	y (mm)	1485	1485
Weight				
2.1	Truck weight with nominal load & maximum battery weight	kg	6550	7300
2.3	Axle loadings without load & with maximum battery weight, drive/load side	kg	2700 / 2x 925	2900 / 2x 950
2.4	Axle loading, mast forward, with nominal load, front/rear (lowest lift height)		850 / 2x 2850	600 / 2x 3350
2.5	Axle loading, mast retracted, with nominal load, front/rear (lowest lift height)		2200 / 2x 2175	2400 / 2x 2450
Wheels, Drive Train				
3.1	Tyres: PT=Power Thane, Vul=Vulkollan, drive/load side		Vul / Vul	Vul / Vul
3.2	Tyre dimensions, drive side	(mm)	285 / 75	285 / 75
3.3	Tyre dimensions, load side	(mm)	343 / 140	343 / 140
3.5	Number of wheels, drive/load side (x=driven)		1x / 4	1x / 4
3.6	Track width (centre of tyres), drive side	b10 (mm)	1410	1410
Dimensions				
4.1	Fork tilt, forwards / backwards	α/β °	2 / 6	2 / 6
4.2	Height with mast lowered (see tables)	h1 (mm)	(see table)	(see table)
4.3	Free lift (see tables)	h2 (mm)	(see table)	(see table)
4.4	Lift height (see tables)	h3 (mm)	(see table)	(see table)
4.5	Overall height with mast raised	h4 (mm)	(see table)	(see table)
4.7	Height to top of overhead guard	h6 (mm)	2185	2185
4.8	Seat height	h7 (mm)	1055	1055
4.10	Height of load legs	h8 (mm)	485	485
4.15	Fork height, fully lowered	h13 (mm)	50	50
4.19	Overall length	l1 (mm)	2590	2590
4.20	Length to fork face (includes fork thickness)	l2 (mm)	(see table)	(see table)
4.21	Overall width	b1/b2 (mm)	1770	1770
4.22	Fork dimensions (thickness, width, length)	s / e / l (mm)	50 / 120 / 1150	50 / 120 / 1150
4.24	Fork carriage width	b3 (mm)	1740	1740
4.25	Outside width over forks (minimum/maximum)	b5 (mm)	560 - 2030	560 - 2030
4.26	Innerwidth of load legs	b4 (mm)	900	900
4.28	Mast reach	l4 (mm)	(see table)	(see table)
4.32	Ground clearance at centre of wheelbase, (forks lowered)	m2 (mm)	80	60
4.33	Working aisle width (Ast) with 1000 x1200 mm pallets, load crosswise	Ast (mm)	(see table)	(see table)
4.34	Working aisle width (Ast) with 800 x1200 mm pallets, load lengthwise	Ast (mm)	(see table)	(see table)
4.35	Turning circle radius	Wa (mm)	1800	1800
4.37	Truck length over load legs	l7 (mm)	1980	1980
Performance				
5.1	Travel speed, with/without load	km/h	10.0 / 10.5	10.0 / 10.5
5.2	Lifting speed, with/without load	m/s	0.23 / 0.43	0.21 / 0.43
5.3	Lowering speed, with/without load	m/s	0.40 / 0.38	0.40 / 0.38
5.4	Reach speed, with/without load	m/s	0.10 / 0.10	0.10 / 0.10
5.8	Maximum gradeability, with/without load	%	8.0 / 12.5	7.0 / 12.0
5.9	Acceleration time (10 metres) with/without load	s	6.0 / 5.6	6.5 / 5.5
5.10	Service brakes (mechanical/hydraulic/electric/pneumatic)		electr.-mech.	electr.-mech.
Electric motors				
6.1	Drive motor capacity (60 min. short duty)	kW	7.5	7.5
6.2	Lift motor output at 15% duty factor	kW	14.0	14.0
6.4	Battery voltage/capacity at 5-hour discharge	V/Ah	48 / 775, 930	48 / 775, 930
6.5	Battery weight	kg	1100, 1300	1100, 1300
Miscellaneous				
8.1	Type of drive control		stepless	stepless



h1 = Lowered mast height
h2 + h13 = Free lift
h3 + h13 = Lifting height
h4 = Raised mast height
c = Load centre (distance)

Ast = Wa + R + a
Ast = Working aisle width
Wa = Turning radius
a = Safety clearance = 2 x 100 mm
R = $\sqrt{(l6 + x)^2 + (b12 / 2)^2}$

RBM20K / RBM25K • Integrated fork spreader with tilt							
Chassis width (mm)	Battery current (Ah)	Battery weight (kg)	Ast*(Ast3*) 4.33 (mm)	Ast*(Ast3*) 4.34 (mm)	l4 4.28 (mm)	l2 4.20 (mm)	x 1.8 (mm)
1700	775	1100	2885 (2650)	2940 (2850)	620	1440	350
1700	930	1300	2925 (2705)	2990 (2906)	565	1495	295

* Ast = Wa + R + 200 (Ast3 = Wa - X + l6 + 200)

RBM20K, RBM25K					
Mast Type	h3+h13 mm	h1 mm	h4 mm	h2+h13 mm	Carriage tilt F/B (°)
Triplex with free lift	4800	2295	5600	1600	2/6
	5400	2495	6200	1800	2/6
	5700	2595	6500	1900	2/6
	5900	2662	6700	1967	2/6
	6300	2795	7100	2100	2/6
	7000	3028	7800	2333	2/6
	7500	3195	8300	2500	2/6
	8000	3362	8800	2667	2/6
	8500	3528	9300	2833	2/6

*ready to **perform** to your **application***

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Note: 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 dealer. Mitsubishi Forklift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.