

ELECTRIC SIT-ON REACH TRUCK

RBF14-20CA 1.4 - 2.0 TON

***Ready to Perform
To Your Applications***



www.mitforklift.com.sg

© 2018 by MLAP. All Rights Reserved. All registered trademarks are the property of their respective owners. Printed in Singapore.

FMIT0154 (11/18)

PRESENTED BY :

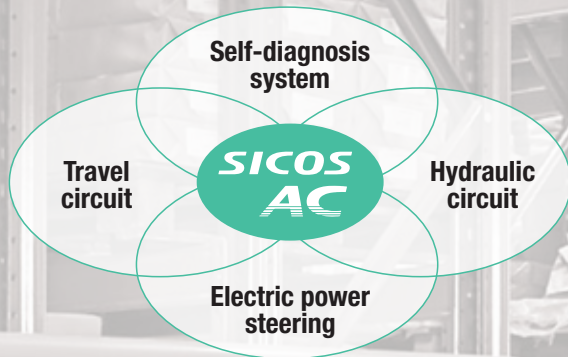


Note: Performance specifications may vary depending on standard manufacturing tolerances, vehicle condition, types of tyres, floor or surface conditions, applications or operating environment. Trucks may be shown with non-standard options. Specific performance requirements and locally available configurations should be discussed with your Mitsubishi forklift truck dealers. Mitsubishi Forklift Trucks follows a policy of continual product improvement. For this reason, some materials, options and specifications could change without notice.

THE EDGE OF INNOVATION

RBF-CA Series

One of the most reliable and versatile trucks in the industry that perform without compromise in standards. Regardless of using it to lift, transport or manoeuvre your goods within the warehouse environment, you can be ensured of its compact structure and powerful drive system that never fails to outperform your expectations.



The multifunctional centralize control system for AC control

SICOS-AC system (Super Intelligent Control System for AC Control), featuring a new type of controller that is fully compatible with the AC system, is now able to exhibit powerful and more advanced capabilities. By integrating travel, hydraulic and electrical power steering functions into one functional AC system, the operator is now empowered to work more efficiently and comfortably.



PRACTICAL & EXPLICIT CONTROLS

Advanced steering and multi-display

Experience the universal 360° electric power steering (EPS). The 360° EPS provides a comprehensive driving experience for your operators to move around with the forklift smoothly without having to worry on the operators troublesome drive preferences. Both wheel direction and forklift information are displayed onto the digital display for a clear indication of the truck's real time status.



* Steering is adjustable to achieve different steer feeling

Wheel indicator

The wheel indicator on the display instantly shows the real time direction of truck movement.

The easy-to-read display shows:

- 1 Traveling speed
- 2 Battery discharge status
- 3 Current time
- 4 Control buttons



Self-diagnosis function

With SICOS-AC, RBF-CA can perform self-diagnosis and display real time error code messages on the display panel to alert the operator.

Drive mode settings

Three modes of travel setting (Economy / Neutral / Power) are configured into RBF-CA to accommodate the operator's drive experience and also the site condition. Thus, it enhances the operator's confidence to operate the truck efficiently at any warehouse setting.

INVEST ON ONE, **3** X THE BENEFITS

Faster speed

DYNAMIC & POWERFUL ACCELERATION FOR ENHANCED WORK EFFICIENCY

Superior drive performance

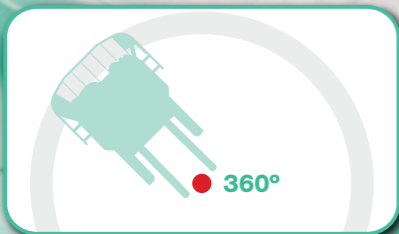
Experience high efficient driving, lifting and turning with our unique SICOS - AC System, which provides and optimal control over the powerful travel and hydraulic motors performance. It is highly versatile to suit any operators' skill level as you can be ensured of its simplicity in the controls design that is specially designed for safer operation.

Steering

EXCELLENT MANEUVERABILITY FOR NARROW SPACES

360° UNLIMITED STEERING Tight Turning Ability

By completely redesigning the frame, we've reduced the minimum turning radius and right angle stacking aisle width. As a result with newly adopted 360° endless steering, we now lead the industry to achieve space efficiency. At the same time, we've created a more spacious and comfortable operating compartment to ensure operator's comfort is well taken care.




Stable lifting

Smooth, powerful lifting

Both Mast and chassis rigidity was reinforced with a newly designed structure to ensure maximum stability for the operator to lift loads without any mast capacity lost, up to seven meters lift height.

* Tilt-able integral side shifter is included as part of a standard equipment.

 **MAXIMUM LIFTING HEIGHT UP TO 10 METERS**

Improved visibility - For safer, easier operation

Visibility within chassis for operator to monitor mast fork height is excellent with its vertical designed bars aligned with the operator's vision. By mounting the free lift cylinder diagonally and away from the mast symmetry, the operator's forward view vision was improved with limited obstruction.



Shock absorption mast and soft landing mechanism

RBF-CA is incorporated with soft landing function to limit its lowering speed before the forks touches the ground. Thus, it is able to effectively eliminates any possible impact onto the load, which proves its worth and ability to handle brittle loads.

AOS semi-auto stacking system

Once you have keyed in your preferred rack height into the system memory, the AOS semi-auto stacking system raises the forks to that height at the touch of a button. This feature is a great advantage for loading/ unloading good from your most commonly used racks as well as high racks that are difficult to see.*

* Operator must visually confirm fork position before loading/ unloading.



OPTIONAL

FOR EASY MANAGEMENT OF MULTIPLE FUNCTIONS

COMFORTABLE OPERATION FOR ENHANCED EASE-OF-USE

Ergonomically compartment

RBF-CA features several ergonomic innovations. The tilt-mounted fingertip levers and large armrests greatly reduce arm fatigue. The operator can finely adjust the both of steering panel position and seat position. We've included these advanced features as standard to ensure maximum comfort.

- 1 Adjustable seat with Ergonomic contour
- 2 Spacious operating compartment with padded, floor mat
- 3 adjustable steering column & 360 degree steering
- 4 Easy to operate display panel
- 5 Directional switch
- 6 Fingertip control levers
- 7 Emergency stop switch



ACTIVE SAFETY AND EASY MAINTENANCE

- ✓ Multiple features for operator safety.
- ✓ Major improvements to everyday usability.
- ✓ Enhanced Innovations to improve work efficiency

Travel-speed-sensitive lift speed control

This advanced safety innovation automatically slows lift speed and rotation when travel exceeds a set speed. From occurring to prevent accidents.

Neutral safety feature

The Neutral Safety Feature prevents the truck from sudden movement if the keyswitch is turned on while the accelerator is depressed or during operation of the hydraulic lever.

It is a critical safety standard to prevent operator from mishandling equipment. Any mishandling would activate buzzer and warning display.

Automatic power-off

To reduce power consumption, the power is automatically shut off when the truck is left idle for 15 minutes or more.

Operation interlock system (OIS)

If the operator is not seated for more than two seconds, both travelling and hydraulic operations will be automatically interlocked.

Cold storage applications

Options for RBF-CA trucks to operate under cold and high moisture environment is available for configuration. It is also suitable to operate within large freezers that are water and rust resistant.

CS class: -20°C continuous exposure** -35°C intermittent exposure***
FCS class: -35°C continuous exposure** -55°C intermittent exposure***
FCS class: -55°C continuous exposure** with cabin

*** 30-minute maximum operation time
** 60-minute maximum operation time

Ease of accessibility

The drive unit cover under the operator's seat can be fully opened, to provide more convenient access and easier maintenance.



Battery forward pull-out system

Thanks to our convenient mast reach-out feature, the battery can be pulled out toward the front. This greatly simplifies battery refilling and monitoring of battery electrolyte levels. It also eliminates the need for a battery table.

* To accommodate customers who frequently change batteries, the side roll-out type is also available.



RBF-CA SERIES

WHERE
SIMPLICITY
MEETS
PRODUCTIVITY

 **MITSUBISHI**

ECONOMICAL AND ENVIRONMENTALLY FRIENDLY FORKLIFT TRUCKS THAT MAKE A GOOD INVESTMENT

While electric driven battery vehicles tend to have higher upfront cost but, it is worthwhile to invest on, in the longer term.

On average, return on investment (ROI) is expected to be much cost effective to operate an electric forklift truck than to a diesel or gas powered trucks, which fuel cost is subjected to external forces thus resulting fuel cost to fluctuate. Parts maintenance for an electric truck is also easier as compared to internal combustion trucks as it is less prone to mechanical wear.

Mitsubishi RBF-CA, having powered by "clean" energy, you can be ensured for an emission free truck which protects both the environment and your operator from harmful emissions particles such as CO, NO_x or CO₂.

**Make
Mitsubishi RBF-CA
yours today!**

And let's sculpt a safe and energy efficient working environment!

Standard Specifications								
		Item	Summary	Unit	Electric Sit-On Reach Truck			
Type	1.2	Model			RBF14CA	RBF16CA	RBF20CA	
	1.3	Rated capacity	with integral sideshifter	Q	kg	1400	1600	2000
	1.4	Load center		C	mm	600	600	600
	1.5	Motor type				AC	AC	AC
	1.6	Operator type	Stand-on / Seated			Seated	Seated	Seated
	Dimensions	2.1	Lift height		H _{3+S}	mm	6000	6000
2.2		Free lift		H _{2+S}	mm	1765	1765	1775
2.3		Tilt angle <Fork>	Downward / Upward		deg.	2 / 5	2 / 5	2 / 5
2.4		Fork	Finger bar			Hook type	Hook type	Hook type
2.5			Dimensions (L / W / T)	l/b/s	mm	1070 / 100 / 35	1070 / 122 / 40	1070 / 122 / 40
2.6			Spread (Max / Min)		mm	715 / 200	737 / 292	737 / 292
2.7		Length	OA. length		mm	2280	2280	2360
2.8			Frame		mm	1730	1830	1890
2.9			to Fork face		mm	1210	1210	1290
2.10		Reach stroke			mm	555	655	625
2.11		Width	OA. width		mm	1270	1270	1334
2.12			Between legs		mm	932	932	915
2.13			Frame		mm	1270	1270	1270
2.14			Leg		mm	275	275	291
2.15		Height	Mast lowered	H ₁	mm	2665	2665	2675
2.16	Mast extended		H ₂	mm	6900	6900	6900	
2.17	Overhead guard			mm	2160	2160	2190	
2.18	Overhang	Reach out		mm	180	180	180	
2.19	Min. turning radius			mm	1610	1705	1755	
2.20	Min. 90° turning aisle ^{*)}	W800 x L1200 Pallet		mm	1825	1870	1920	
		W1200 x L1200 Pallet		mm	1825	1870	1920	
2.21	Min. 90° stacking aisle ^{*)}	W800 x L1200 Pallet	Ast	mm	2520	2520	2610	
		W1200 x L1200 Pallet	Ast	mm	2630	2645	2720	
Performance	3.1	Travel speed	Laden / Unladen		km/h	12 / 12	12 / 12	12 / 12
	3.3	Lifting speed	Laden / Unladen		mm/s	370 / 560	370 / 560	300 / 460
	3.4	Lowering speed	Laden / Unladen		mm/s	500 / 400	500 / 400	500 / 400
	3.5	Reach speed	Laden / Unladen		mm/s	150 / 200	150 / 200	150 / 200
	3.6	Gradeability	Laden / Unladen		%	10 / 15	10 / 15	10 / 15
	Mass	4.1	Service weight	w/o Battery		kg	2365	2415
4.2		Axle loading Incl. Battery (6.3)	Reach-in	Laden (Load / Drive)	kg	2785 / 1730	2910 / 1855	2590 / 2080
4.3				Unladen (Load / Drive)	kg	1150 / 1965	1170 / 1995	1380 / 2290
4.4			Reach-out	Laden (Load / Drive)	kg	3835 / 680	4180 / 585	4955 / 715
4.5				Unladen (Load / Drive)	kg	1630 / 1485	1720 / 1445	1915 / 1755
Chassis	5.1	Tyres : Number	Load / Drive / Caster			2 / 1 / -	2 / 1 / -	2 / 1 / -
	5.2	Tyres	Load	mm	ø254x114 (Urethane)	ø254x114 (Urethane)	ø267x135 (Urethane)	
	5.3		Drive	mm	ø330x114 (Urethane)	ø330x145 (Urethane)	ø380x165 (Urethane)	
	5.4		Caster	mm	-	-	-	
	5.5	Wheelbase		mm	1350	1450	1500	
	5.6	Tread	Load	mm	1156	1156	1199	
	5.7		Drive	mm	-	-	-	
	5.8	Ground clearance	Middle of wheelbase		mm	70	70	80
	5.9	Service brake	Mech. / Hydr. / Electr. / Pneum.			Electr.	Electr.	Electr.
	5.10	Parking brake	Foot / Hand / Deadman			Deadman	Deadman	Deadman
Motors	6.1	Battery	Type			Wet cell	Wet cell	Wet cell
	6.2		Volts / Ampere hrs (5HR)	V/Ah	48 / 360	48 / 360	48 / 500	
	6.3		Mass (with case)	kg	750	750	940	
	6.4	Drive motor	60min. rating		kw	6.0	6.0	7.0
	6.5		control			Inverter	Inverter	Inverter
	6.6	Hydraulic motor	5min. rating		kw	12.0	12.0	12.0
	6.7		control			Inverter	Inverter	Inverter
	6.8	Power steering motor	60min. rating		kw	0.55	0.55	0.55
	6.9		control			Chopper	Chopper	Chopper
	6.10	Charger	Type (Built-in / Stationary)			Stationary	Stationary	Stationary
7.1	Operating pressure	for Attachments		MPa	15.7	17.2	17.2	

*1) No clearance included.

