

QuaPro-R

Electric Reach Forklift Trucks

1.0 TON — 1.8 TON

8FBR 10·13·14·15·18 S(J)XII

8FBR 15 C(J)XII

8FBR 15·18 A(J)XII

8FBR 15·18 W(J)XII

The 4 "PRO" in response to the customer's voice.
QuaPro-R has greatly advanced in load handling operations.

PROFESSIONAL

PRODUCTIVE

Q **quad**

PROFITABLE

PROGRESSIVE



Energy Conserving
Machinery Award

The Japan Machinery Federation
Presidential Award

for the year 2012: The Japan Machinery Federation



SUMITOMO

Intuitive operation with man-machine feeling

Materialized the manipulative feeling delicately reflecting the operator's mind.

Human Sensible



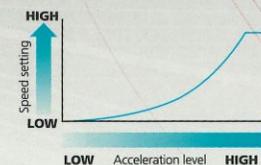
The essential performance showing easy operating ¹

Smooth manipulation feeling

The thorough review of the inching for loading and unloading operation

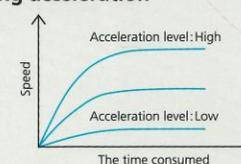
The characteristics of driving acceleration

Materialized the comfortable maneuver in streamlining all aspects of the speed ranging from low to high.



The characteristics of driving acceleration

Improved the maneuverability in low and medium speed range; the modest speed in inching operation like setting a delicate position, quick for an agile start.



Inching performance for loading and unloading

Changed the characteristics for more delicate operation by widening the low-speed range of the lift valve. Also, changed the loading and unloading motor from DC to AC use. The change made both good response and easy inching compatible by



SUMITOMO

QuaPro-R
15

Energy Saving

Eco-friendly energy conservation

Power consumption cost reduced **24%** compared to previous models.

(* Value is for 8FBR15C. 8FBR15S achieved 25%.)

Energy saving
 type forklift model to
 drive motor.
 Through high efficiency,
 is like the AC motor
 ,
 and optimizing the
 type of control.
 level that tops the
 l (compared to our
 ase). Reductions in
 4% decrease) and
 crease/year), and
 (+approx. 2 h/day)
 ith the improved
 vironment, we will
 y-friendly materials
 BR15C model]



[Photo: 8FBR15C/forklift with high-back support]



Energy Conserving Machinery Award
 The Japan Machinery Federation
 Presidential Award
 for the year 2012: The Japan Machinery Federation

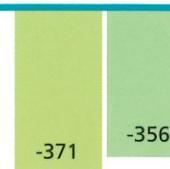
Awarded: Excellent Energy Conserving Machinery / The Japan Machinery Federation Presidential Award
 The Excellent Energy Conserving Machinery Award is the awarding system established in 1980 by general incorporated association of The Japan Machinery Federation, to encourage and promote the development and dissemination of an outstanding energy conserving machinery. The award system has been consecutively carried out to date. Our firm was awarded The Japan Machinery Federation Presidential Awards for the contribution to the promotion of effective energy use through the development of QuaPro-R that achieved overwhelming energy saving.



Long Time Long Life

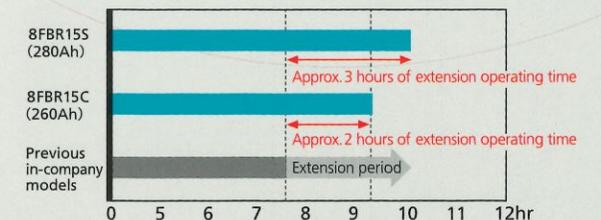
"Long Time Long Life" is the key-catch-clause, derived from our policy, aiming at developing and sales of the forklift. The representing concept of the catch means the machine is capable of being operated for a longer time and more durable than conventional ones. (However, the catch does not necessarily express the lawful guarantee of product's life span and performance.)

8FBR15S (280Ah)	8FBR15C (260Ah)	Previous in-company models
-371	-356	0



Reduction of CO2 emission amount

The calculation of the CO2 emission amount is based on the new and old models performing the same operations (operational limit of workload for previous vehicles). (The CO2 conversion coefficient value is used by Tokyo Electric Power Company according to emission coefficients for each electric power supplier by the Ministry of the Environment in 2010.)





Smooth Turn

Smooth turning and small, facile turning radius

Minimum right-angle stacking aisle width of **2,340 mm** realized.

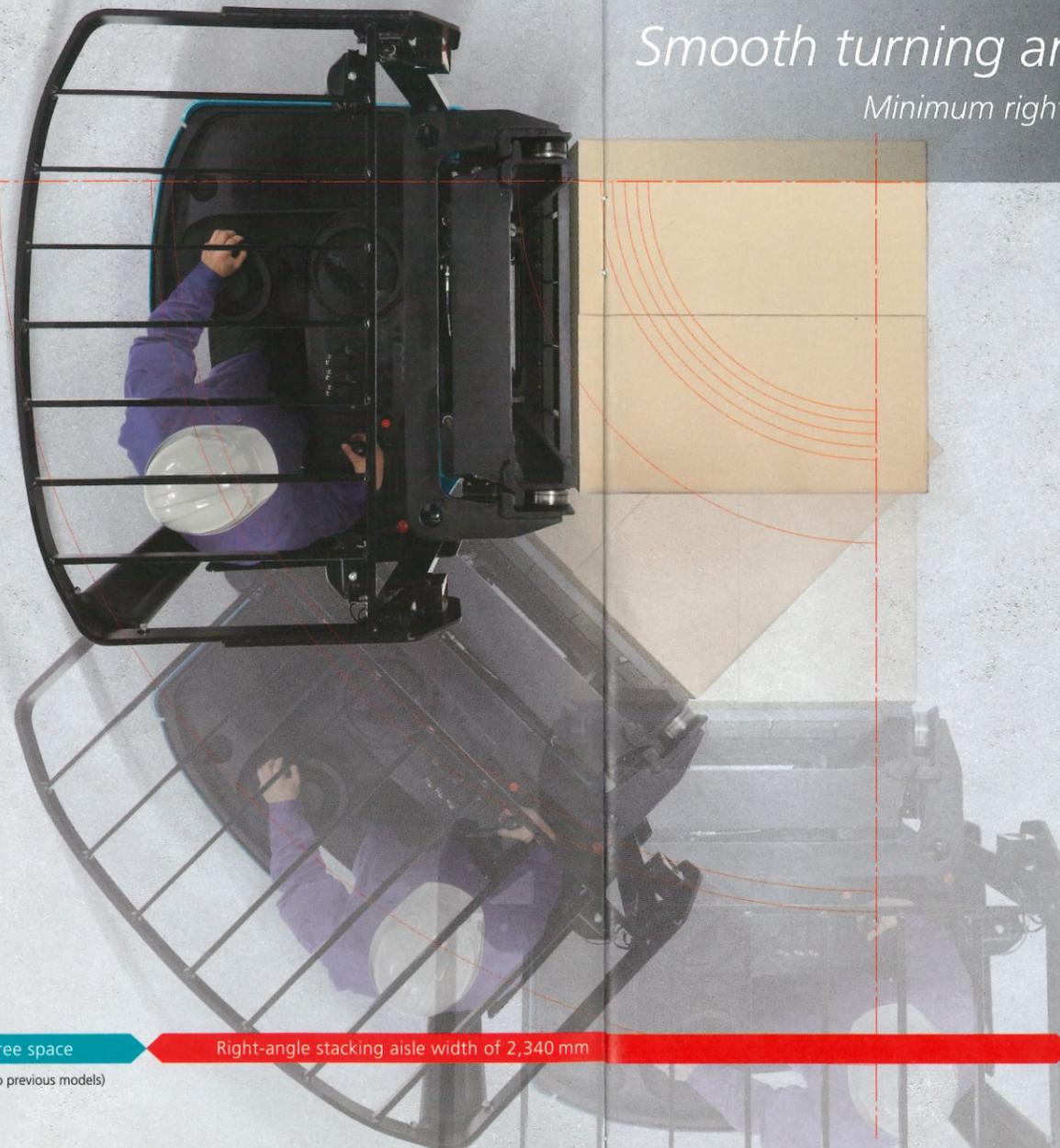
(Achievement of -130 mm compared to our previous models)

QuaPro-R design concept: Space saving

The mast structure, retracting range, and device layout have undergone major revisions while ensuring the wheel base and the cabin space of the previous. A minimum right-angle stacking aisle width of 2,340 mm (compared to our previous models: -130 mm) has been realized [*8FBR15C model].

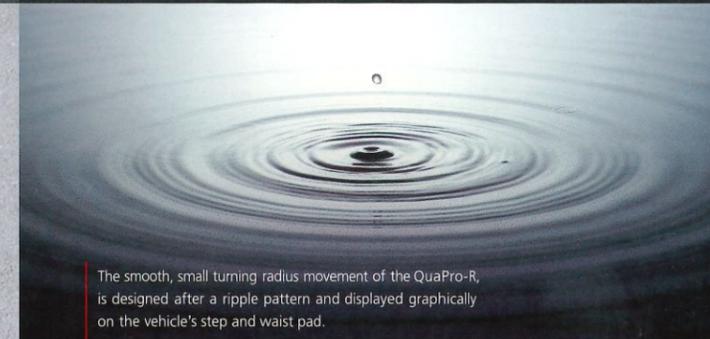
The major improvement in turning radius performance realizes: the increase in productivity (in-company increase of 33%), decrease of fatigue levels (in-company decrease of 20%) due to turning operations, and increase of warehousing efficiency (in-company increase of 10%).

QuaPro-R supports our customers in greater efficiency of the logistics operations.



Aisle free space
(Compared to previous models)

Right-angle stacking aisle width of 2,340 mm



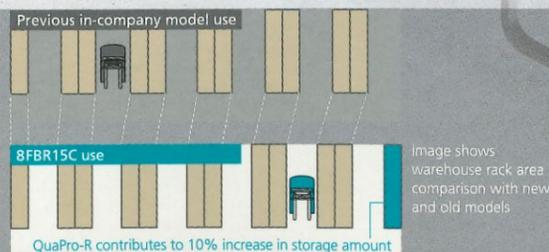
The smooth, small turning radius movement of the QuaPro-R, is designed after a ripple pattern and displayed graphically on the vehicle's step and waist pad.



Ripple Pattern



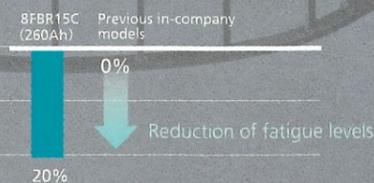
QuaPro-R
Electric Reach Forklift Trucks



Warehouse/storage efficiency increase of 10%
(compared to our previous models)

The reduction in right-angle stacking aisle width enables better utilization of storage space in a warehouse. Increasing the number of rack is made possible by narrowing the aisle width which allows larger volume of storage.

[*8FBR15C model]
* 30 m × 16 m warehouse assumed



Fatigue level reduction of 20%
(compared to our previous models)

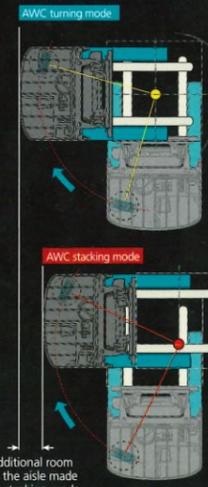
The reduction in right-angle stacking aisle width largely reduce the steering-turn operations by the operator. Unnecessary operations are minimized to enable reduction of operator fatigue levels.

[*8FBR15C model] (JIS D6202:2011 in-company test value occurring in operation cycle pattern)

Patented Sumitomo's technology AWC (Aisle Width Control)

It is an important factor, to select a reach-type forklift, that with how short turning radius the machine could take. With the shorter radius, a warehouse operator could have higher stowage efficiency by narrowing the width of an aisle. Also, when the operator could not change the width, turning with comfortable room may contribute to the safer work conditions.

Sumitomo's patented technology of AWC could make the selection of "turning modes" easy in one-touch operation. The modes are; the "stacking mode" that makes the width of a right angled stacking aisle shortest, and the "turning mode" makes the u-turn radius shortest and available for turning on the spot. In the "stacking mode," the machine automatically adapts its center of the turn to the most appropriate steering angle for the shortest turning radius for making the width of the stacking aisle shortest. Because of these functions, the operator could operate the machine turning in the shortest width of "right angled stacking aisle" without minding an appropriate steering angle only by cutting off the steering to the end.

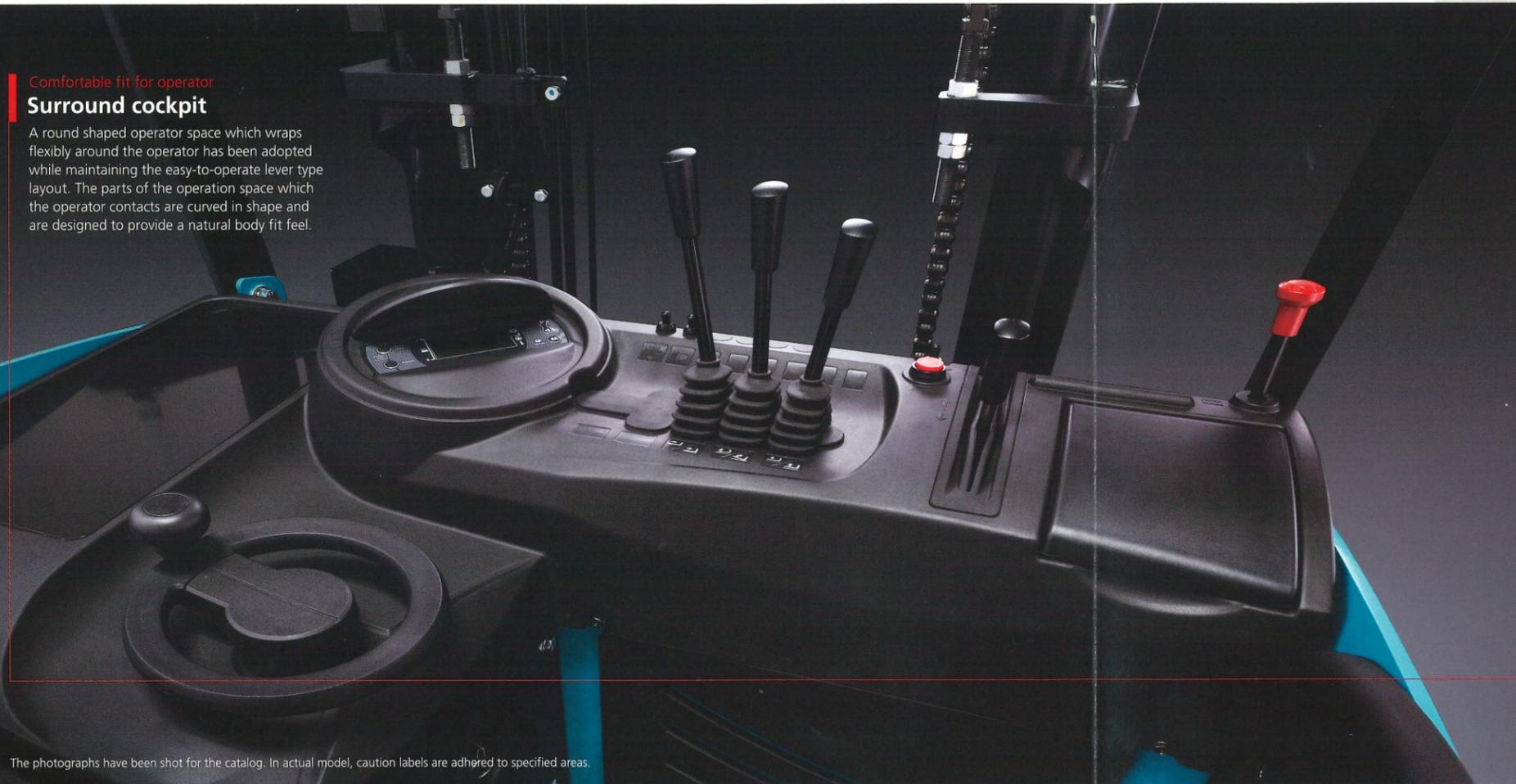


Comfortable cabin space for ease of operation

To tap the machine's true performance, maintaining a comfortable cabin where the operator comes into contact is essential. Comfort in getting on and off the cabin space has been enhanced over previous models with meticulous consideration made for the areas where the operator and machine come into contact such as the floor and operation panel.

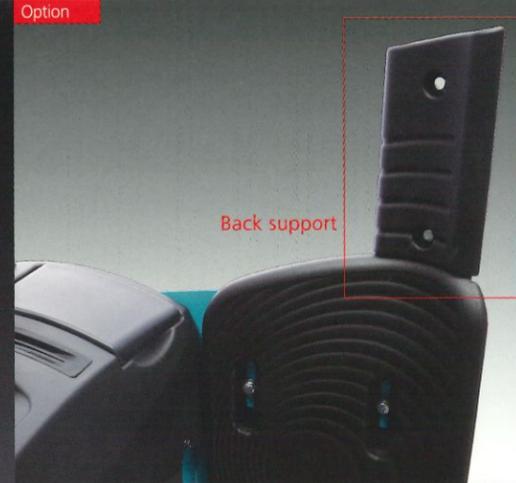
Comfortable fit for operator Surround cockpit

A round shaped operator space which wraps flexibly around the operator has been adopted while maintaining the easy-to-operate lever type layout. The parts of the operation space which the operator contacts are curved in shape and are designed to provide a natural body fit feel.



The photographs have been shot for the catalog. In actual model, caution labels are adhered to specified areas.

Option



Back support

Option



High-back support

* Shows elbow guard equipped at the same time

Supports operator's body Back support High-back support

A back support (supports the operator's back) and a high-back support (supports the shoulders from the sides) are newly adopted. Support during switchbacks from reverse to forward is provided, and fatigue during normal operation is reduced.



* Shows use of back support

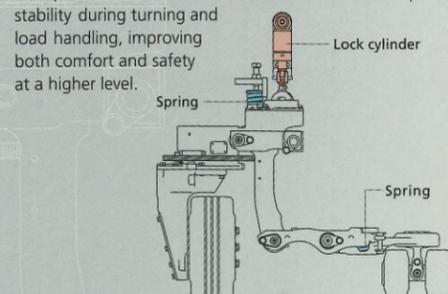
The back support can be adjusted in the vertical direction.



* Shows use of high-back support

Reduction of uncomfortable vibration during travel Low vibration suspension system

The QuaPro-R has adopted a parallel link type structure. Compared to previous models, this structure greatly minimized uncomfortable vibrations from the floor surface, reducing fatigue of the operator. In addition, a suspension lock mechanism has been added to improve stability during turning and load handling, improving both comfort and safety at a higher level.



Reduces fatigue during getting on and off Lowered floor

The QuaPro-R has the lowest floor height of 250 mm that tops the industry, - 45 mm compare to previous models. This contributes to reduced operator fatigue in reach-forklift truck work with its frequent getting on and off.



250mm
(45mm lower than previous models)

Visor-integrated display

A visor has been newly added to the top of the display to prevent reflected glare and improve visibility. In addition, the display surface is set at an angle facing the operator allowing verification of the display using a natural field of vision.



Equipment and mechanisms for ensuring safety of operators

The QuaPro-R has various safety mechanisms and equipment to ensure the safety of operators during travel and load handling operations. In addition, to ensure the safe operation in high, dark places, various options are available such as LED illumination, a carriage light, and a safety laser.



Option

Elbow guard

Prevents operator's body from protruding Elbow guard

The elbow guard covers the right side of the forklift to prevent the operator from protruding, and protecting the operator from becoming inadvertently pinned.



Restricts dangerous acceleration during turns

Turn speed control

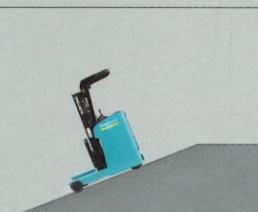
The torque of the travel motor is controlled according to the amount of steering operation. As a result, dangerous acceleration is restricted while the forklift is turning, preventing hazardous situations such as rollover. In addition, unnecessary acceleration is prevented, this contributes to energy conservation. The control is optimized according to the amount of steering operation, therefore operability is not sacrificed.



Optimum control of down-slope speed

Slope speed limiter

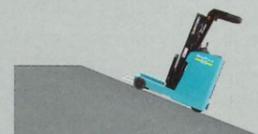
The slope speed limiter, which restricts unwanted acceleration on down-slopes, is standard equipment. The control records the speed when the accelerator pedal is in the neutral position and maintains a constant speed on a down-slope.



Prevents rollback on upslopes

Anti-rollback

The anti-rollback mechanism, which prevents the forklift from rolling back when it starts from a stop on an upslope, is standard equipment.



Safety lock during operator's absence

Travel and load handling interlock

Travel and load handling operations are locked while the operator is away. The presence or non-presence of the operator is detected by the riding sensor, operation from outside the forklift is locked even when the key is on. While the load handling operations are locked, lift-down operation is locked.



Display during interlock operation

Option

Two optimum controls are combined to provide the highest feeling of safety during starting and stopping.

Front wheel brake anti-skid control

The front-wheel brakes comes into assist if the drive tires slip. This control prevents the tires from been locked and provides maximum brake force, the forklift is stabilized and the braking distance is minimized.

Traction control

Slipping during starts and acceleration is prevented and the optimum traction force is transmitted to the ground. Sway due to slipping is prevented and optimum acceleration is obtained even on a slippery surface.

(These two controls are a set option)



Illumination equipment for safe operation



Option

LED headlight (3-LED type)

The compact headlight does not reduce the visibility and overhead space. An automatic dimming function is not available. (Power consumption: 7.2 W)



Option

LED auto-light (illuminance sensing type)

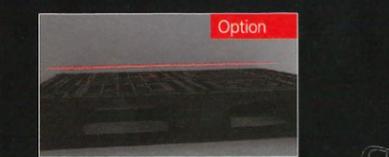
The 8-LED type light illuminates in a wider area. This environmental-spec illumination automatically dims according to the surrounding brightness. (Power consumption: 19.2 W / 4.8 W (dimmed))



Option

Carriage light

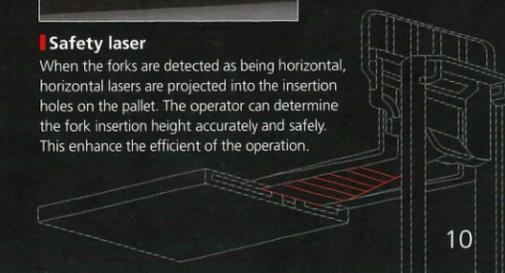
A front light is newly equipped on the carriage. The load (fork insertion point) and rack are directly illuminated, load handling operations can be performed more safely.



Option

Safety laser

When the forks are detected as being horizontal, horizontal lasers are projected into the insertion holes on the pallet. The operator can determine the fork insertion height accurately and safely. This enhance the efficient of the operation.



ction

nce. It is designed with consideration for
ms to reduce maintenance-related waste,
for easy maintenance.



ws full-function display

Battery care standard setting by warning display and load operation restriction

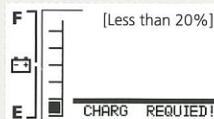
BDI interrupt (over-discharge load handling lock)

When the remaining battery is about 20%, a warning message will be shown on the display and the lifting speed is reduced. If the operation is continued, the lifting operation will be stopped to prevent battery over-discharge.

* Recharge the battery immediately when the warning indication is illuminated.



Standard display



Full-function display



QuaPro-R

Electric Reach Forklift Trucks

Plenty of variations are available.
Select the appropriate model matching the type of work and environment.

Variation

1.0 ton	S	1.25 ton	S	1.35 ton	S
1.5 ton	C S	A W	1.8 ton	S A W	



[Photo : 8FBR15C]

Fisheries-use & freezer spec./Other special-spec. models

Fisheries-use spec. model
This type is suitable for operations which handle fishery and water-related products. Highly reliable forklift with enhanced anti-moisture and anti-rust countermeasures provides high resistance against water leakage and rust.

~-10°C

Fishery-product freezer/refrigerator spec. model
This type has a full water/cold resistance mechanism and performs well flexibly in freezers and refrigerators of fishery-processing companies.

~-35°C/~-45°C

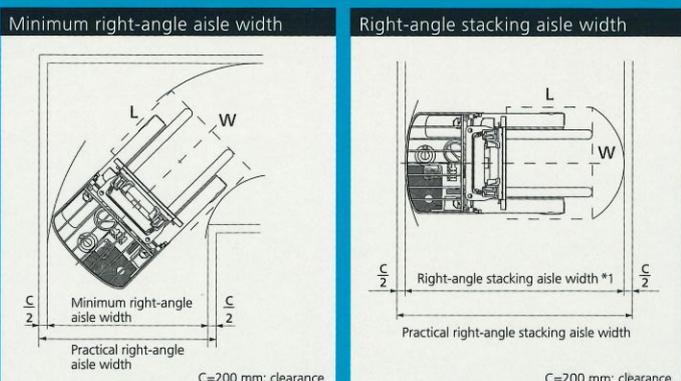
Freezer/refrigerator spec. model
This type assures load handling performance, travel performance and energy-conservation effects even under cold temperature conditions, and performs well in freezers and refrigerators of frozen food companies.

~-35°C/~-45°C

Anti-rust spec. model

Anti-dust spec. model

Aisle width (unit: mm) Pallet length: L, Pallet width: W				*The table below indicates the value during AWC (small turn radius control) "Stacking Mode".											
Model	Type	Mast	Battery	Intersecting (IA) and Right-angle aisle width					Right-angle stacking (SA) aisle width *1						
				L	800	1,000	1,000	1,000	1,100	800	1,000	1,000	1,000	1,100	
1.0 ton	8FBR10 S(J)XII	type S Front (side)	Standard/Semi-free	201 (front)	1,100	1,000	1,000	1,100	1,100	1,100	1,100	1,000	1,000	1,100	1,100
				201 (side), 260	1,550	1,560	1,570	1,610	1,570	2,060	2,210	2,230	2,250	2,320	
				280-370	1,560	1,560	1,570	1,610	1,580	2,130	2,290	2,310	2,330	2,400	
				201, 260	1,560	1,560	1,570	1,610	1,580	2,100	2,250	2,270	2,290	2,360	
				280-370	1,560	1,560	1,570	1,610	1,580	2,160	2,320	2,330	2,360	2,430	
				201, 260	1,560	1,560	1,570	1,610	1,580	2,100	2,250	2,270	2,290	2,360	
				280-370	1,560	1,560	1,570	1,620	1,580	2,160	2,320	2,330	2,360	2,430	
				201 (front)	1,630	1,630	1,640	1,690	1,650	2,060	2,210	2,230	2,260	2,320	
				201 (side), 260	1,630	1,630	1,640	1,690	1,650	2,070	2,220	2,240	2,270	2,330	
1.25 ton	8FBR13 S(J)XII	type S Front (side)	Standard/Semi-free	201 (front)	1,100	1,000	1,000	1,100	1,100	1,100	1,000	1,000	1,100	1,100	
				201 (side), 260	1,630	1,630	1,640	1,690	1,650	2,070	2,220	2,240	2,270	2,330	
				280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400	
				201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360	
				280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430	
				201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360	
				280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430	
				201 (front)	1,630	1,630	1,640	1,690	1,650	2,060	2,210	2,230	2,260	2,320	
				201 (side), 260	1,630	1,630	1,640	1,690	1,650	2,070	2,220	2,240	2,270	2,330	
1.35 ton	8FBR14 S(J)XII	type S Front (side)	Standard/Semi-free	201 (front)	1,100	1,000	1,000	1,100	1,100	1,100	1,000	1,000	1,100	1,100	
				201 (side), 260	1,630	1,630	1,640	1,690	1,650	2,070	2,220	2,240	2,270	2,330	
				280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400	
				201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360	
				280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430	
				201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360	
				280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430	
				201 (front)	1,630	1,630	1,640	1,690	1,650	2,060	2,210	2,230	2,260	2,320	
				201 (side), 260	1,630	1,630	1,640	1,690	1,650	2,070	2,220	2,240	2,270	2,330	
1.5 ton	8FBR15 C(J)XII	type C Front (side)	Standard/Semi-free	260	1,690	1,690	1,700	1,740	1,700	2,090	2,230	2,250	2,280	2,340	
			Full-free	260	1,690	1,690	1,700	1,740	1,700	2,100	2,250	2,270	2,300	2,360	
			3-stage full-free	260	1,690	1,690	1,700	1,740	1,700	2,100	2,250	2,270	2,300	2,360	
	8FBR15 S(J)XII	type S Front (side)	Standard/Semi-free	280-370	1,690	1,690	1,700	1,740	1,700	2,140	2,290	2,310	2,330	2,400	
			2-stage full-free	280-370	1,690	1,690	1,700	1,740	1,710	2,160	2,320	2,330	2,360	2,430	
			3-stage full-free	280-370	1,690	1,690	1,700	1,740	1,710	2,160	2,320	2,330	2,360	2,430	
	8FBR15 A(J)XII	type A Front (side)	Standard/Semi-free	280-370	1,800	1,790	1,800	1,840	1,810	2,140	2,290	2,310	2,340	2,400	
			2-stage full-free	280-370	1,800	1,790	1,800	1,850	1,810	2,190	2,360	2,370	2,390	2,470	
			3-stage full-free	280-370	1,800	1,790	1,800	1,850	1,810	2,190	2,360	2,370	2,390	2,470	
	8FBR15 W(J)XII	type W Front (side)	3-stage full-free	280-370	1,850	1,850	1,850	1,870	1,860	2,190	2,360	2,370	2,390	2,470	
	1.8 ton	8FBR18 S(J)XII	type S Front (side)	Standard/Semi-free	280-370	1,800	1,790	1,800	1,840	1,810	2,140	2,290	2,310	2,340	2,400
				2-stage full-free	280-370	1,800	1,790	1,800	1,850	1,810	2,190	2,360	2,370	2,390	2,470
3-stage full-free				280-370	1,800	1,790	1,800	1,850	1,810	2,190	2,360	2,370	2,390	2,470	
8FBR18 A(J)XII		type A Front (side)	Standard/Semi-free	280-370	1,820	1,820	1,830	1,870	1,840	2,170	2,320	2,340	2,370	2,430	
			2-stage full-free	280-370	1,820	1,820	1,830	1,870	1,840	2,220	2,390	2,400	2,420	2,500	
			3-stage full-free	280-370	1,820	1,820	1,830	1,870	1,840	2,220	2,390	2,400	2,420	2,500	
8FBR18 W(J)XII		type W Front (side)	3-stage full-free	280-370	1,850	1,850	1,850	1,870	1,860	2,190	2,360	2,370	2,390	2,470	



*1: Figure does not include the turning capacity of 200 mm in the practical right-angle stacking aisle width.

Manufactured by
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 Phone: 81-562-48-5251 Fax: 81-562-48-5396

SUMITOMO NACCO FORKLIFT CO., LTD., the manufacturer of forklifts and logistic equipment, is the company obtained the approval of ISO9001 and ISO14001.

For the forklift driver operations, inspection and maintenance, always read the instruction manual and follow the instructions correctly.



SUMITOMO NACCO FORKLIFT SALES CO.,LTD.

13F, 11-8, Shiba-daimon 2-Chome, Minato-ku, Tokyo, 105-0012 JAPAN
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*The actual features and specifications may differ from those described in the catalog.
 *The color of the photographs in this catalog may differ slightly from the actual color depending on the ink quality.

