Aisl	e width (unit: mm	n) Pallet le	ngth: L, Pallet wid	th: W	*The tabl	e below indi		lue during A	WC (small to			king Mode"		
					Inte	ersecting (IA	() and Right	angle aisle	width	Rie	ght-angle st	acking (SA)	aisle width	*1
	Model	Type	Mast	L	800	1,000	1,000	1,000	1,100	800	1,000	1,000	1,000	1,100
		- 1		Battery W	1,100	1,000	1,100	1,200	1,100	1,100	1,000	1,100	1,200	1,100
				201 (front)	1,550	1,560	1,570	1,610	1,570	2,060	2,210	2,230	2,250	2,320
é			Standard/Semi-free	201 (side), 260	1,550	1,560	1,570	1,610	1,570	2,070	2,220	2,240	2,270	2,330
1.0		tum o C		280-370	1,560	1,560	1,570	1,610	1,580	2,130	2,290	2,310	2,330	2,400
1.0	8FBR10 S(J)XII	type S Front (side)	2 stans full face	201, 260	1,560	1,560	1,570	1,610	1,580	2,100	2,250	2,270	2,290	2,360
ton	0101110 5(5)/ (11	rront (side)	2-stage full-free	280-370	1,560	1,560	1,570	1,610	1,580	2,160	2,320	2,330	2,360	2,430
			3-stage full-free	201, 260	1,560	1,560	1,570	1,610	1,580	2,100	2,250	2,270	2,290	2,360
			5-stage ruii-free	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
			Standard/Semi-free	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		tuna C		280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400
1.23	8FBR13 S(J)XII	type S	2-stage full-free	201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360
ton		riont (side)	z-stage ruii-iree	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
			3-stage full-free	201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360
			5 stage fail free	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
			1 - 12 3	201 (front)	1,630	1,630	1,640	1,690	1,650	2,060	2,210	2,230	2,260	2,320
			Standard/Semi-free	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		typeS		280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400
	8FBR14 S(J)XII		2-stage full-free	201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360
ton			- stage ran nee	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
			3-stage full-free	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
		type C	Standard/Semi-free	260	1,690	1,690	1,700	1,740	1,700	2,090	2,230	2,250	2,280	2,340
	8FBR15 C(J)XII	Front (side)	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
		typeS	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
1.5	8FBR15 S(J)XII	Front (side)	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
ton	OFDDAE A (I) VIII	type A	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
	8FBR15 A(J)XII	Front (side)	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
		typeS	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
	8FBR18 S(J)XII	Front (side)	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
1.0			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
1.8		type A	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
ton	8FBR18 A(J)XII	Front (side)	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	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







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Manufactured by

SUMITOMO NACCO MATERIALS HANDLING CO.,LTD.

2-75, Daitoh-cho, Obu-shi, Aichi-ken, 474-8555 JAPAN Phone: 81-562-48-5251 Fax: 81-562-48-5396

We offer personalized after service and looking forward to see you.

*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.





Intuitive operation with man-machine feeling

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

Human Sensible

The essential performance showing easy operating

Smooth manipulation feeling

The thorough review of the inching for loading and unloading operation

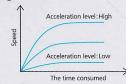
The characteristics of driving acceleration

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



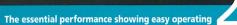
The characteristics of driving acceleration

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 optimizing the start control of the motor.



Maneuvering in shorter radius and staying still

"AWC (small turn radius control)" Patented

Sumitomo's patented technology Aisle Width Control(AWC/small turn radius control), making an expert's circling technique possible for anybody. The operator could easily work without cutting off the steering in turning for larger room available by AWC.

The detailed explanation on page 06.



The essential performance showing easy operating

Reduction of uncomfortable vibration during travel

Low vibration suspension system

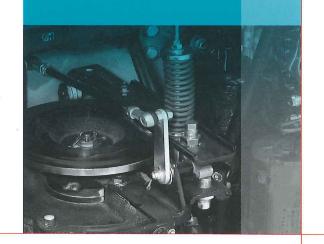
Please refer to the page 07 for the detail.

The essential performance showing easy operating

educes fatigue during getting on and off

Lowered floor

Please refer to the page 08 for the detail

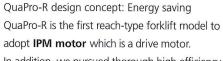


Energy Saving

Eco-friendly energy conservation

Power consumption cost reduced 24% compared to previous models.

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



In addition, we pursued thorough high efficiency, such as revising adopted parts like the AC motor for load handling operations,

reducing the vehicle weight, and optimizing the layout of devices and each type of control.

Low power consumption level that tops the industry has been achieved (compared to our previous models: 24% decrease). Reductions in power consumption cost (24% decrease) and CO2 emissions (356 kg decrease/year), and prolong of operating hours (+approx. 2 h/day) are realized. Together with the improved efficiency of the working environment, we will offer our customers an eco-friendly materials handling environment. [*8FBR15C model]



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 Machiney Federation, for 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.





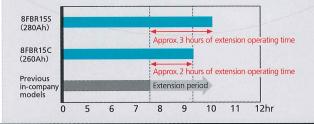
"Long Time Long Life" is the key-catch-clause, derived from our policy, aiming at developing and sales of the forklift.

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 8FBR15C (280Ah) (260Ah) Previous in-company models The calculation of the CO2 emission (operational limit of workload for -356 coefficient value is used by Tokyo

Reduction of CO₂ emission amount

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

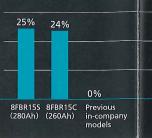


QuaPro-R

Reduction of power consumption cost

A reduction in power consumption cost of 24% compared to our previous models has been achieved by reducing

(JIS D6202:2011 in-company test value occurring in operation cycle pattern)



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

Reduction of CO2 emission amount

Compared to our previous models, a reduction of 356 kg/year in CO2 emissions is realized by reducing power consumption. The reduction in CO2 emissions by the QuaPro-R contributes to our customer's environmental activities. [*8FBR15C model]



Prolong of operating time

Prolong of approximately 2 hours in operating time compared to our previous models is realized by reducing power consumption. Auxiliary charging is reduced which provides advantages in various situations such as reductions in the entire operation time, or even continuous operation when unexpected additional work is required.

(JIS D6202:2011 in-company test value occurring in operation cycle pattern)



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.



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)



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.

8FBR15C use
QuaPro-R contributes to 10% increase in storage amount

Warehouse/storage efficiency increase of 10%

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.

 \star 30 m imes 16 m warehouse assumed

8FBR15C Previous in-company models

0%

Reduction of fatigue levels

Fatigue level reduction of 20% (compared to our prevision 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] (IIS D6202:2011 in-company test value occurring in operation cycle pattern)

Patented Sumitomo's technology AWC (Aisle Width Control)

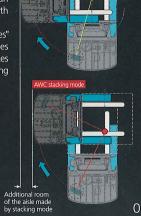
It is an important factor, to select a reach-type forklift, that with how short turning radius the machine could take. With the shorter radius, a warehouse operator could have higher stowage efficiency by narrowing the width of an aisle. Also, when the operator could not change the width, turning with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

Ripple Pattern

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.





QuaPro-R

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.

Visor-integrated display

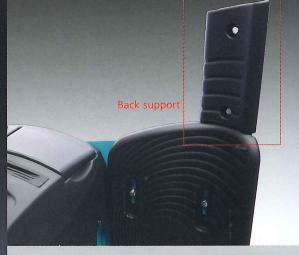
A visor has been newly added to

the top of the display to prevent reflected glare and improve visibility. In addition, the display

surface is set an angle facing the

the display using a natural field





QuaPro-R

Reduces fatigue during getting on and off

The QuaPro-R has the lowest floor height

fatigue in reach-forklift truck work with its

of 250 mm that tops the industry,

frequent getting on and off.

- 45 mm compare to previous models

This contributes to reduced operator

Lowered floor

SUMITOMO



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.

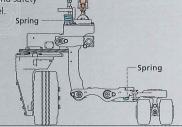


The back support can be adjusted in the vertical direction.



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



250 mm (45 mm lower than previous models)

7

QuaPro-R

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.



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

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



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)



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))



Carriage ligh

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.



Safety las

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.

10

Maintenance cost reduction

The QuaPro-R also fulfills the functions with maintenance. It is designed with consideration for maintenance cost reduction using innovative mechanisms to reduce maintenance-related waste, as well as the addition of various information functions for easy maintenance.

Unified management of simple operations contributes to reduce maintenance cost

Standard display

- Digital clock (alarm function)
- Remaining battery display
- Power mode level display Hour meter display
- (total time/key ON time/travel time)
- Speed limiter setting display
- ●Forklift operation maintenance data (total time *for 5 days)
- ●AWC mode display
- Operator setting mode display



[Standard display]



Full-function display

Function/display added to standard display

- Digital clock (year, month, date, day/AM, PM/alarm function)
- ●Hour meter display (total time/key ON time/travel time/load operation time/distance)
- Speed limiter setting display (show set speed)
- Forklift operation maintenance data (total time/battery charge time/travel time/load operation time/distance *for 9 days)

Full-function display-unique options

- Password entry
- PCS (Shock-less load operation, Automatic lift stop, Automatic horizontal stop)

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.





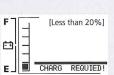


Lift speed

Lift

is stoppe

1



Full-function display

QuaPro-R

Plenty of variations are available.

Select the appropriate model matching the type of work and environment.

Variation







1.35 ton

[Photo:8FBR15C]

QuaPro-R

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.



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.



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.

Anti-rust spec.

Anti-dust spec.

Mechanisms for cost reduction

irst adoption of high-efficiency motor n reach forklift truck

IPM motor

reducing maintenance costs.

Compact and highly efficient IPM motor which is also used on electrical automobile, is adopted for the travel motor The IPM motor has high dust-proof performance which eliminates grease shortage malfunctions and contributes in

AC motor for load handling

An AC motor is adopted for the load handling motor, its high efficiency contributes to energy conservation. Parts which wear out such as brushes and contactors are unnecessary. This contributes in reducing maintenance cost.

Select the desired battery removal mode based on your maintenance requirements and frequency.

Front battery removal



The battery can be removed by simultaneously operating the key and the battery lock release pedal.Water refilling, inspection and replacement can be performed easily, contributing to

reduced maintenance time. Thorough consideration for safety is made such as auto travel-stop while performing maintenance and, of course, mis-operation prevention.

Side battery removal



The battery can be pulled out easily from the side by opening the cover on the side of the vehicle with only a single touch. This also provides flexibility at job sites requiring frequent battery

Specification	ns							ω							
		Model/Type/Batter	y Pullout	type	1.0 ton	1.25 ton	1.3	5 ton		1.5	ton			1.8 ton	
					8FBR10 S(J)XII	8FBR13 S(J)XII	8FBR	14 S(J)XII	8FBR15 C(J)XII	8FBR15 S(J)XII	8FBR15 A(J)XII	8FBR15 W(J)XII	8FBR18 S(J)XII	8FBR18 A(J)XII	8FBR18 W(J)XII
					type S	type S	t	/pe S	type C	type S	type A	type W	type S	type A	type W
Item/Symbol					Front Side	Front Side	Front	Side	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side	Front Side
	Maximum load capacit	у	kg		1,000	1,250	1	,350	1,500	1,500	1,500	1,500	1,800	1,800	1,800
	Standard load center		mm		500	500		500	500	500	500	500	500	500	500
	Standard lifting height		mm	E	3,000	3,000	3	,000	3,000	3,000	4,000	4,000	3,000	4,000	4,000
	Free lift		mm	F	113	113		113	113	113	113	995	113	113	995
	Reach stroke		mm		455 440	595 580	595	580	660	595	770	705	770	770	705
Performance	Tilting angle (up/down)	deg	G/H	5°/3°	5°/3°		°/3°	5°/3°	5°/3°	5°/3°	5°/3°	5°/3°	5°/3°	5°/3°
	Travel speed	(Laden)	km/h		9.5	9.5		9.5	9.0	9.0	9.0	9.0	9.0	9.0	9.0
12/10/2004	Traver speed	(Unladen)	km/h		11.0	11.0		1.0	10.5	10.5	10.5	10.5	10.5	10.5	10.5
	Lifting speed	(Laden)	mm/s		360	340		320	310	310	310	280	280	280	250
	Litting speed	(Unladen)	mm/s		560	560		560	560	560	560	470	560	560	450
	Minimum turning radio	us (outer)	mm	1	1,360	1,495		,495	1,580	1,580	1,755	1,755	1,755	1,785	1,755
THE STATE OF	Overall length (with fo	rk)	mm	A+K	1,840 1,855	1,920 1,935	1,920	1,935	2,015	2,080	2,080	2,145	2,080	2,110	2,145
	Overall width		mm	L	1,090	1,090		,090	1,090	1,090	1,090	1,190	1,090	1,090	1,190
	Mast lowered height		mm	В	1,995	1,995		,995	1,995	1,995	2,495	1,895	1,995	2,495	1,895
	Max mast height w/b	ackrest	mm	N	3,935	3,935	3	,935	3,935	3,935	4,935	4,925	3,935	4,935	4,925
	Head guard height		mm	М	2,240	2,240	2	,240	2,240	2,240	2,240	2,240	2,240	2,240	2,240
	Step height		mm	S	250	250		250	250	250	250	250	250	250	250
Dimensions	Fork length		mm	Α	770	850		850	920	920	920	920	920	920	920
	Fork spread width (ma	ximum)	mm	D	725	725		725	725	725	725	825	725	725	825
	Fork spread width (mir	nimum)	mm	С	290	290		290	290	290	290	290	290	290	290
	Wheel base		mm	0	1,110	1,250	1	,250	1,340	1,340	1,515	1,515	1,515	1,515	1,515
	Tread (front/rear)		mm	P/Q	980/640	980/640	99	0/640	990/640	990/640	990/640	1,090/640	990/640	990/640	1,090/640
	Minimum ground clear	rance	mm	R	70	70		70	70	70	70	70	70	70	70
	Vehicle weight		kg		2,035	2,095	2	,140	2,225	2,230	2,315	2,335	2,315	2,415	2,435
	Front wheel				Rubber; Φ255×114	Rubber; Φ255 × 114	Urethan	e; φ254×102	Urethane;φ254×102		Urethane; ϕ 254×10			Urethane; Φ254×10	
Tires	Drive wheel				Rubber; Φ330×145	Rubber; Φ330×145	Rubber;	φ330×145	Rubber; φ330×145		Rubber; ϕ 330×145			Rubber; ϕ 330×145	
TERMINE.	Caster wheel				Rubber; ϕ 150×80	Rubber; <i>Φ</i> 150×80	Rubber	; φ150×80	Rubber; ∲150×80		Rubber; ∮150×80)		Rubber; ϕ 150×80	
	Travel	Control type			FET inverter	FET inverter		inverter	FET inverter		FET inverter			FET inverter	
Late Control		Output	kW		4.5	4.5		4.5	4.5		4.5			4.5	
	Hoist	Control type			FET inverter	FET inverter		inverter	FET inverter		FET inverter			FET inverter	
Electrical components	TIODE	Output	kW		9.6	9.6		9.6	9.6		9.6			9.6	
components	Steering	Control type			FET chopper	FET chopper		chopper	FET chopper		FET chopper			FET chopper	
REAL WAR	Jaconing	Output	kW		0.3	0.3		0.3	0.3		0.3			0.3	
	Rechargeable battery	Voltage × Capacity	V×Ah		48/201	48/201	4	3/201	48/260		48/280			48/280	

Di	mer	nsion Chart
ط	0 0	
•		G
z	ш	
Lo	ad (Capacity Charts
	1800	8FBR18
	1600	8FBR15
_	1400	OFDR 14
ity (kg	1200	8FBR13
oad Capacity (kg	1200	255010
Load Capacity (kg	1200 1000 800	8FBR10
Load Capacity (kg		8FBR10

Load center (mm)

*Front	: Front	battery	remov
cido .	Cido h	attony re	moval

Main A	ccessories						
		Standard specs/accessories	Optional specs / accessories			Standard specs / accessories	Optional specs / accessories
		Hoist AC motor	Lift / tilt / reach-speed limiter			Neutral start	Elbow guard
	Hoist related	Soft landing	PCS *1			Slope speed limiter	Rear rubber bumper
Workability		High-visibility wide mast	Simple load weight scale	Safety		Anti-rollback	Rear bumper (floor elongation shape
		Suspension lock control	Large diameter steering wheel			Volume adjustable type reversing buzzer	Forward/back movement chimer
Workability	Steering related	AWC (small radius turning control)					Forward/back melodic chimer
	Teluteu	Small diameter steering wheel			Display *2	LCD display	Full function display (Full-dot LCD)
		Travel IPM motor	Speed limiter	Farmana		BDI interrupt	Spare battery
Workability	Travel related	Neutral brake switchback regeneration	Head guard low overall height type	Economy	Battery	(stop hoisting at over discharging)	
		Travel speed/power adjustment/speed limiter				Auto power off	Battery carrier
		Headlights	LED headlights				Fisheries use spec. (Up to -10℃)
		Turning indicators	LED auto lights (light sensitive type)				General freezer refrigerator spec.
			Safety laser				(Up to -35℃ /-45℃)
	Lamp related		Carriage light	Environ	mental specs.		Fisheries use freezer refrigerator spec
			LED rotating light				(Up to -35℃ /-45℃)
			LED work light				Anti-rust spec.
			LED room light				Anti-dust spec.
		Low vibration suspension system	Back support				
		Shock-less steering	High-back support			rt to finish loading /unloading, auto-stop at r y/full function display function details, refer	
Com	nfortability	Low floor	Acrylic top cover				
Comf		Waist band	Caster spacer suspension				
		Manifest clip					
C-4-		Turning speed control	Anti-skid traction control				
Safe	ty	Travel and load handling interlock	Front protector				

			1.0	tor	1	1.25 ton				1	1.35	tor	1	1.5 ton										1.8 ton											
			8FBF	R10S			8FB	R13S	X I	8FBR14S					8FBF	15C			8FBF	R15S		8FBR15A				8FBR15W	/ 8FBR18S				1	8FBF	R18A		8FBR18\
			typ	e S			typ	oe S			typ	e S			typ	e C			typ	e S			typ	eА		typeW		typ	e S			type			typeV
	Mast type	Standard	Semi-free	2Full-free	3Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3Full-free	3Full-free	Standard	Semi-free	2Full-free	3Full-free	Standard	Semi-free	2Full-free	3Full-free	3Full-free												
	2,500	0	0	0		0	0	0		0	0	0		0	0	0		0	0	0				rama (0	0	0						
	2,700	0	0	0		0	0	0		0	0	0		0	0	0		0	0	0			_				0	0	0						
	3,000	•	0	0		•	0	0		•	0	0		•	0	0		•	0	0							•	0	0						
	3,300	0	0	0		0	0	0		0	0	0		0	0	0		0	0	0							0	0	0						
	3,500	0	0	0		0	0	0		0	0	0		0	0	0		0	0	0							0	0	0						
	3,700	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0	0	0	0					0
	4,000	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	•	0	0	0	0	0	0	0	0	•	0	0	0	•
Max. lifting height	4,300				0				0				0				0				0				0	0				0				0	0
mast designation)	4,500	0	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0	0	0		0	0	0		0	0
	4,700				0				0				0				0				0				0	0				0			71	0	0
	5,000	0	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0	0		0	0	0	0		0	0	0		0	0
	5,500				0				0				0				0				0				0	0				0				0	0
	6,000				0				0				0				0				0				0	0				0				0	0
	6,500																0				0				0	0				0				0	0
	7,000			10000													0				0	*****		*****	0	0	22200	-		0				0	0
	7,500						-										0	11177		*****	0				0	0				0				0	0

Special order will be needed for the product with the mast lifting over 6,000, please feel free to contact us for detailed information.

Battery	● :Ba	sic O:C	ption																	
	1.0	ton	1.25	ton	1.35	ton				1.5	ton	1.8 ton								
	8FBI	R10S	8FBF	R13S	8FBF	R14S	8FBF	R15C	8FBF	R15S	8FBF	R15A	8FBR	15W	8FBF	R18S	8FBF	R18A	8FBR	18W
	typ	e S	type S		typ	oe S	typ	e C	typ	oe S	typ	e A	typ	e W	typ	oe S	typ	e A	typ	e W
Battery capacity	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side	Front	Side
201Ah/5h (48V)	•	•	•	•	•	•														
260Ah/5h (48V)	0	0	0	0	0	0	•	•												
280Ah/5h (48V)	0	0	0	0	0	0			•	•	•	•	•	•	•	•	•	•	•	•
340Ah /5h (48V)	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0
370Ah /5h (48V)	0	0	0	0	0	0			0	0	0	0	0	0	0	0	0	0	0	0

*Front : Front battery removal Side : Side battery removal