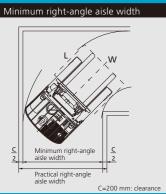
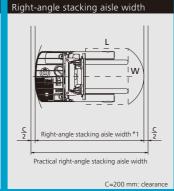
Aisl	e width (unit: mm	n) Pallet lei	ngth: L, Pallet wid	lth: W	*The tabl	le below ind	cates the va	lue during A	WC (small t	turn radius co	ontrol) "Stac	king Mode"		
					Inte	ersecting (IA	() and Right	-angle aisle v	width	Ri	ght-angle st	tacking (SA)	aisle width	*1
	Model	Type	Mast	L	800	1,000	1,000	1,000	1,100	800	1,000	1,000	1,000	1,100
				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
			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				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	5 11 5	201, 260	1,560	1,560	1,570	1,610	1,580	2,100	2,250	2,270	2,290	2,360
ton	OIDICIO 5(3)/CII	Front (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
			Standard/Semi-free 3-stage full-free 3-stage full-free 3-stage full-free 3-stage full-free 3-stage full-free Standard/Semi-free Standard/Semi-free 3-stage full-free 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
			Standard/Semi-free 3-stage full-free Standard/Semi-free Standard/Semi-free 3-stage full-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				280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400
1.25	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		Front (side)	2-stage ruii-rree	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
			2 stopp full from	201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360
			3-Stage Tull-Tree	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
			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				280-370	1,640	1,640	1,650	1,690	1,650	2,140	2,290	2,310	2,330	2,400
1.55	8FBR14 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		Front (side)	2-stage ruii-rree	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
			Standard/Semi-free 3-stage full-free Standard/Semi-free Ull-free 3-stage full-free 3-stage full-free Standard/Semi-free Standard/Semi-free Standard/Semi-free	201, 260	1,640	1,640	1,650	1,690	1,650	2,100	2,250	2,270	2,290	2,360
			3-Stage ruii-free	280-370	1,640	1,640	1,650	1,690	1,660	2,160	2,320	2,330	2,360	2,430
		typeC	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	type C 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
		TTOTIC (SIGE)	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
		tuno S	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		type S Front (side)		280-370	1,690	1,690	1,700	1,740	1,710	2,160	2,320	2,330	2,360	2,430
		TTOTIC (SIGE)	-	280-370	1,690	1,690	1,700	1,740	1,710	2,160	2,320	2,330	2,360	2,430
ton		type A		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)		280-370	1,800	1,790	1,800	1,850	1,810	2,190	2,360	2,370	2,390	2,470
		110110,2.22,	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	typeW 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
		tu un a C	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	type S 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
		FIUIT (SIGE)	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		tuno 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	type A 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
		rionit (side)	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









SUMITOMO NACCO MATERIALS HANDLING SALES CO.,LTD.

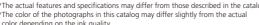
2-18, Heiwajima 3-chome, Ota-ku, Tokyo, 143-0006 JAPAN Phone: 81-3-6404-3262 Fax: 81-3-6404-3272

SUMITOMO NACCO MATERIALS HANDLING

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.











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.

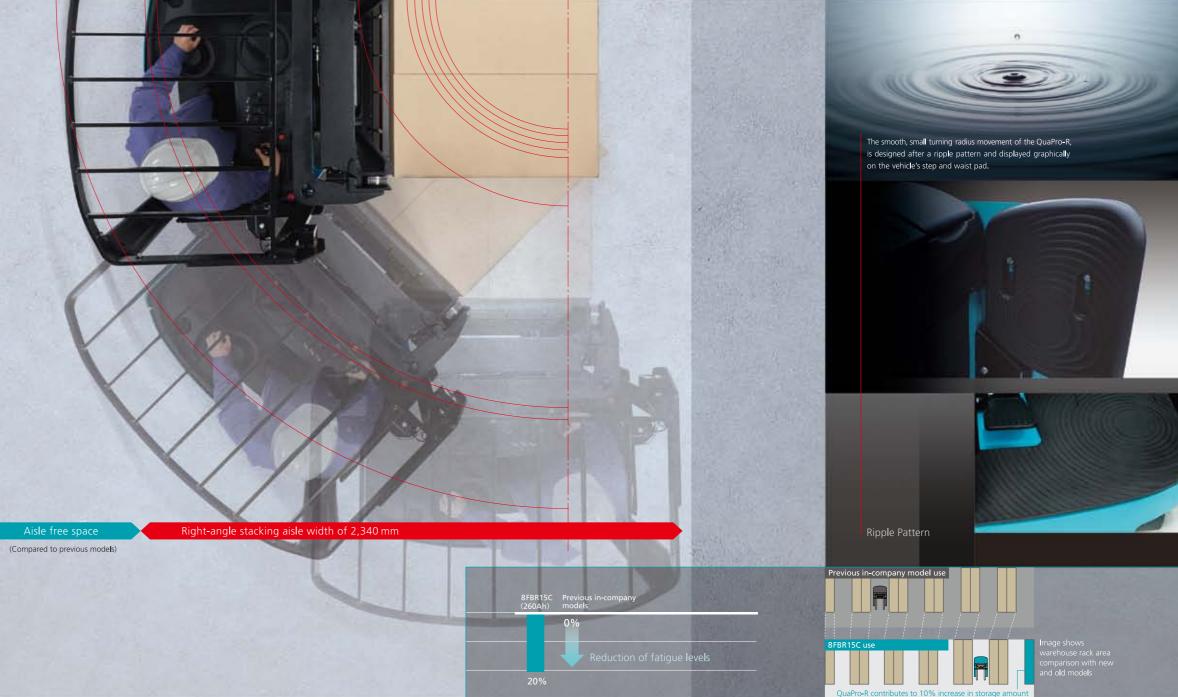




Smooth turning and small, facile turning radius

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

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



Work efficiency increase of 33% (compared to our previous models)

The decrease in right-angle stacking aisle width enables a large reduction in steering-turn operations when stacking and removing loads from racks in a warehouse, reducing the cycle time for entire operations.

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

8FBR15C (260Ah)

33%

Previous in-company models
0%

Fatigue level reduction of 20%

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)

Warehouse/storage efficiency increase of 10% (compared to our prevision 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

01

Energy Saving

Eco-friendly energy conservation

Power consumption cost reduced 24% compared to previous models.

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

QuaPro-R design concept: Energy saving QuaPro-R is the first reach-type forklift model to adopt IPM motor which is a drive motor.

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

conserving machinery. The award system has been ively carried out to date. Our firm was awarded The Japan



8FBR15S 8FBR15C Previous in-company (280Ah) (260Ah) models 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 -356 -371 coefficient value is used by Tokyo

Reduction of CO₂ emission amount

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.

QuaPro-R contributes to our

[*8FBR15C model]

The reduction in CO2 emissions by the

customer's environmental activities.

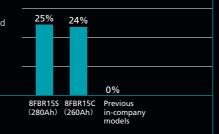
Electric Power Company according to emission coefficients for each electric power supplier by the Ministry of the



Reduction of power consumption cost

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

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



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.

[*8FBR15C model]

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



QuaPro-R



DESIGN

The design embodied good

man-machine coordination, such as caring for the operator for long time cargo handling work with the high back support and elbow guard and the cockpit design characterized by human centered design policy, was

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







Supports operator's body **Back support** High-back support

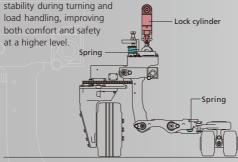
A back support (supports the operator's back) and a high-back support (supports the shoulders from the sides) are newly adopted. Support during switchbacks from reverse to forward is provided, and fatigue during normal operation is reduced.

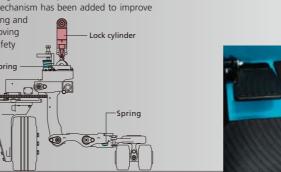




Reduction of uncomfortable vibration during travel Low vibration suspension system

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





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.

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



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.

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 erhead 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 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.



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

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 ontributes 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



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)

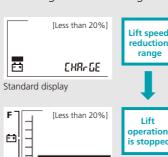


Battery care standard setting by warning display and load operation restriction

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.



Full-function display

Variation



Plenty of variations are available.

1.25 ton

QuaPro-R

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



1.8 ton



[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.



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. model

Anti-dust spec. model

Mechanisms for cost reduction

rst adoption of high-efficiency motor 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

Maintenance cost reduction

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 flexibililty at job sites requiring frequent battery

Maintenance

SFBR10 S(J)XII SFBR13 S(J)XII SFBR13 S(J)XII SFBR14 S(J)XII SFBR15 S(J)XII SFBR	1.8 ton BR18 A(J)XII 8FBR18 W(J)XII type A type W ont Side 1,800 1,800 500 500 4,000 4,000 113 995 770 705 5*/3* 5*/3* 9.0 9.0 10.5 10.5 280 250 560 450		
Type Stype Styp	type A type W ont Side Front Side 1,800 1,800 500 500 4,000 4,000 113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Maximum load capacity kg	ont Side Front Side 1,800 1,800 500 500 4,000 4,000 113 995 770 705 5*/3* 5*/3* 9.0 9.0 10.5 10.5 280 250		
Maximum load capacity kg 1,000 1,250 1,350 1,500 1,500 1,500 1,500 1,800 Standard load center mm 500 50	BR18 A(J)XII 8FBR18 W(J)XII type A type W ont Side Front Side 1,800 1,800 500 500 4,000 4,000 113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Standard load center	500 500 4,000 4,000 113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Standard lifting height mm E 3,000 3,000 3,000 3,000 4,000 4,000 4,000 3,000 Free lift mm Free lift mm Free lift mm Free lift 113 11	4,000 4,000 113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Free lift mm F 113 113 <th col<="" td=""><td>113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250</td></th>	<td>113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250</td>	113 995 770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250	
Performance Reach stroke mm 455 440 595 580 595 580 660 595 770 705 770 Tilting angle (up/down) deg G/H 5°/3° <td< td=""><td>770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250</td></td<>	770 705 5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Performance Tilting angle (up/down) deg G/H 5°/3° 5°	5°/3° 5°/3° 9.0 9.0 10.5 10.5 280 250		
Performance 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 9.0 10.5 10.5 280 250		
Travel speed (Unladen) km/h 11.0 11.0 11.0 11.0 10.5 10.5 10.5 10.5	10.5 10.5 280 250		
(Unladen) km/h 11.0 11.0 11.0 10.5 10.5 10.5 10.5 10.5	280 250		
Lifting coord			
Eliting speech (Heledan) mm/c FCO FCO FCO FCO	560 450		
Minimum turning radius (outer) mm I 1,360 1,495 1,495 1,580 1,580 1,755 1,755			
	, ,		
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Step height mm \$ 250 25			
Dimensions Fork length mm A 770 850 850 920 920 920 920 920			
Fork spread width (maximum) mm D 725 725 725 725 725 725 825 725			
Fork spread width (minimum) mm C 290 290 290 290 290 290 290 290			
	, ,		
	,		
Minimum ground clearance mm R 70			
3 3,000 ,000 3,000 3,000 3,000	,,		
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Travel Output kW 4.5 4.5 4.5 4.5 4.5 4.5			
Electrical Hoist Output kW 9.6 9.6 9.6 9.6 9.6 9.6			
Control type FET chopper FET c			
Steering Output kW 0.3 0.3 0.3 0.3 0.3	0.3		
	48/280		

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Lo	oad (Capa	city	Ā		0	К	
	1800	8FBR1						
	1600	8FBR1	15					
(0)	1400	8FBR1		,				
pacity (kg	1200	8FBR1	3/			/		

400 500 600 700 800 900 1000 1100 1200 Load center (mm)

14

*Front : Front battery removal Side : Side battery removal

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						
		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						
	Steering related	AWC (small radius turning control)					Forward/back melodic chimer						
	related	Small diameter steering wheel			Display *2	LCD display	Full function display (Full-dot LCD)						
		Travel IPM motor	Speed limiter	F		BDI interrupt	Spare battery						
Workability	Travel related	Neutral brake switchback regeneration	Head guard low overall height type	Economy	Battery	(stop hoisting at over discharging)							
vvorkability		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	fortability	Low floor	Acrylic top cover			77 ruii ruinction uispiay ruinction uetaiis, refer to the Cost Efficiency page (page 11).							
		Waist band											
		Manifest clip											
Safet	by	Turning speed control	Anti-skid traction control										
Salei	Ly	Travel and load handling interlock	Front protector										

					_		1.25 ton 1.35 ton 1.5 ton																												
			1.0	tor	1	1	.25	to	n	1	1.35	to	1	1.5 ton											1.8 ton										
			8FBI	R105			8FBI	R13S			8FBF	R14S		8FBR15C			8FBR15S			8FBR15A 8FBR15W				8FBR18S 8FB					8FBF	R18A	8FBR18\				
			typ	oe S			typ	e S		type S			type C			type S			type A typeW				typeW	type S				type A				typeV			
	Mast type	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	Standard	Semi-free	2Full-free	3 Full-free	3 Full-free
	2,500	0	0	0		0	0	0		0	0	0		0	0	0		0	0	0							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	•
/lax. 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				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
	6,500																0				0				0	0				0				0	0
	7,000	1	T				1										0				0				0	0				0				0	0
	7,500																0				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																		
	1.0ton		1.25 ton		1.35 ton					1.5	ton		1.8 ton								
	8FBF	R10S	8FBR13S		8FBR14S		8FBR15C		8FBR15S		8FBR15A		8FBR15W		8FBI	R18S	8FBF	R18A	8FBR18W		
	type S		type S		type S		type C		type S		type A		type W		typ	oe S	typ	e A	type 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

13