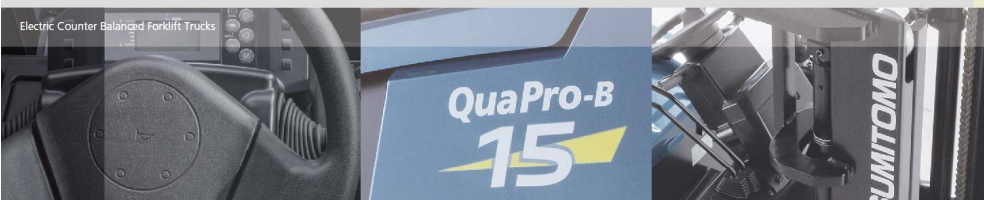


Battery		○:Standard △:Option								
		PREMIUM 8FB15PXIII	PREMIUM 8FB18PXIII	PREMIUM 8FB20PXIII	COMPACT 8FB20PSXIII	PREMIUM 8FB25PXIII	PREMIUM 8FB30PZXIII	COMPACT 8FB35PSZXII	LIGHT 8FB15PLXIII	LIGHT 8FB25PLXIII
Battery capacity	Voltage	(48V)	(48V)	(48V)	(48V)	(48V)	(72V)	(72V)	(48V)	(48V)
280Ah / 5h									●	
320Ah / 5h		●	●		●					●
390Ah / 5h										
440Ah / 5h				●			●	●		
470Ah / 5h		△	△		△		△	△		
525Ah / 5h		△	△		△					
565Ah / 5h				△		●				
600Ah / 5h						△	△	△		
700Ah / 5h				△		△				
725Ah / 5h										

Mast		○:Standard △:Option											
		8FB15/18PXIII 8FB20PSXIII 8FB15PLXIII			8FB20/25PXIII 8FB25PLXIII			8FB30PZXIII			8FB35PSZXIII		
	Mast type	2Limited-free	2Full-free	3Full-free	2Limited-free	2Full-free	3Full-free	2Limited-free	2Full-free	3Full-free	2Limited-free	2Full-free	3Full-free
Max. lifting height* (mast designation)	3,000	●	△		●	△		●	△		●	△	
	3,300	△	△		△	△		△	△		△	△	
	3,500	△	△		△	△		△	△		△	△	
	3,700	△	△		△	△		△	△		△	△	
	4,000	△		△	△			△			△		
	4,100		△			△		△			△		△
	4,300	△			△	△		△	△		△		
	4,500	△		△	△			△	△		△		△
	4,700							△					
	4,800	△		△	△			△			△		△
	5,000	△			△			△			△		△
	5,100												△
	5,300						△			△			
	5,400			△									
	5,500									△			△
	5,700						△						△
	6,000			△			△			△			△

*The lifting height is for loaded circumstances.
The mast can lift a load over 6m high. Please consult with the marketing division in charge for the detail.



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

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



SUMITOMO NACCO FORKLIFT SALES CO., LTD.
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CODE
EB-02A

*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.



Brochure Design: GK Design Soken Hiroshima Inc. 2016.06

SUMITOMO

Counter Balanced-type Battery Forklift Trucks

1.5 TON 3.5 TON

8FB15/18/20/25PXIII
8FB20PSXIII
8FB30PZXIII
8FB35PSZXIII
8FB15/25PLXIII

QuaPro-B

Electric Counter Balanced Forklift Trucks



Efficient performance, light and easy controls, reliable safety features,
and an advanced design to meet the latest requirements
—SUMITOMO "Counter Balanced-type" Forklift line-up
looks to the future to keeps out in front.



As a reliable partner of a logistic work site

Very many things are expected on the forklift.

We are trying to deliver a forklift to the distribution work site as many as possible. Also, we believe that the forklift should be usable for a long time, attaining the greater extent of a job objective, and offering safer operation.

QuaPro-B responds well to customers' many expectations.



1 Operable Longer- Long Time Long Life -

Materialized 8.5 hours operable time range by the standard mode in thoroughgoing energy saving design. More, materialized maximum 9.5 hours operable time range when newly equipped ECO mode is on. The machine's operable time longest in the class secures the day of heavy workload.

Sound Nature of the Machine -Stability & Smooth -

Equipped newly with STC [Safety Turn Control] system. Became possible to contain the extent of cargo-swerve ratio to 1/4, as in the turning operation, compared with conventional model, as in the turning operation. (according to the result of our firm's official test). Greatly improved the safety aspect in the turning operation by employing "semi-high-mount trail" and longer wheelbase.

2

3 More Safe -Safety-

The warning system for dangerous operation: Warning the operator and the storage site by buzzer sound when an abrupt operation takes place. The seat belt interlock system: securing the operator's safety for an emergency reserve. Equipped with many kinds of devices for improving safety and easy operation (including the option).



Operable Longer -Long Time Long Life-

ECO mode

Please try ECO mode when you need to operate longer hours. Only one push of the button materializes maximum 9.5 hours of the operation. Staying in loading/unloading capacity, as usual, the stress-free ECO mode works for the operation preventing abrupt acceleration and speed.



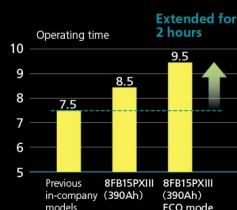
Pursued energy saving by reviewing the conventional machine from the bases. Responded customers' desire for "long operable time" "long life" like a battery driven vehicle inescapable from the recharging work. This forklift is friendly to the global environment trying to bring by the energy saving and the high operable capacity.

- Extended 2 hours of operable time range: ※1
- Extended the battery life for 17 per cent: ※2

※1 Compared with our conventional machine:
When the new model is in the operation of ECO mode.
※2 Compared with our conventional machine.

Extended Operable Time Range

Through containing the power consumption, materialized the additional an hour operable time range a compared with the conventional model of our own. You could operate a little more additional operation. Also, achieved maximum 9.5 hours of operable time range when activating the ECO mode.



[※ JIS D6202:2011 in-company test value occurring in operation cycle pattern (55% of the operating ratio)]



800 1000 1200 1400



The Frequency of the Charge and Discharge when Operated 7.5 Hours

※ The index of predicting the battery life by setting as 1 cycle for the full charge to discharge 75%.

The Extension of the Battery Life Span

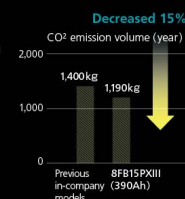
The new QuaPro-B materialized 17% extension of the battery lifespan compared with the conventional example. For a user usually operates a battery driven-forklift for 6 years cycle, our product lifespan is equivalent to 7 years.

[※ JIS D6202:2011 in-company test value occurring in operation cycle pattern]

* Battery life is effected by discharging rate, operating condition, work environment and charging condition.

The Reduction of CO₂ Emission: The Reduction of Power Consumption

Realized the reduction of CO₂ emission for 210kg per year in comparing with our conventional model by reducing power consumption.



Sound Nature of the Machine

-Stability & Smooth-

We Treasure
Users' Cargos

QuaPro-B, equipped with the 4 functions,
makes stable running and sound
loading/unloading operation possible.

- STC (Safety Turn Control) ※1
- Semi High-Mount Trail
- Long Wheel Base
- Drop Battery Box

We believe the stability as if the machine
sticks to the ground,
is excellent fundamental
performance leads to the
highly efficient site.



※1 STC supports to drive for control of the turning speed. Please be careful that STC does not work at tuning by high speed or abrupt operation which falls in a dangerous situation such as overturning or cargo falling. Please make sure to keep safety operation.

Helping to contain cargo-swerve when the machine is turning



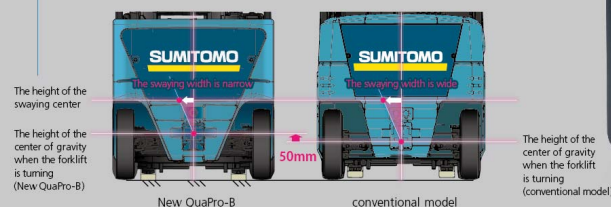
STC (Safety Turn Control)

The Safety Turn Control (STC) is the new mechanism equipping QuaPro-B that automatically controls the speed of turning. The system could control both the turning speed and torque when the machine is in turning responding to the vehicle's speed and the angle of the tires. Also, the system minimizes the cargo-swerve possible to 1/4 of the conventional models'. (According to our firm's official test). STC contains the excessive acceleration when the vehicle is in the operation of turning or the slalom. It also benefits the shipping area in many ways with improving workers' safety and efficiency.



Semi High-Mount Trail

Equipped with a new type Semi High Mount Trail, being laid out so as to have the rocking center and vehicle's center of gravity about 50mm closer than conventional model. The system limits the vehicle's rocking motion to lesser possible extent when the trail rocks responding to an uneven ground surface.
(*50mm: the ratio compared with the conventional model.)



Long Wheel Base

The wheel base 30mm extended longer than conventional model. It contributes to the stable running.



Drop Battery Box

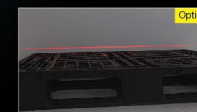
Lower gravity center is achieved by placing the heavy battery underneath the vehicle as low as possible.

Though extending the wheel base causes no working stress even in the narrow aisle. The machine makes both stability and smaller turning radius compatible thanks to the larger angle of stay-still steering.



Carriage Light

It could make the loading/unloading work safer for directly lighting the cargos (the fork sockets) and the racks.

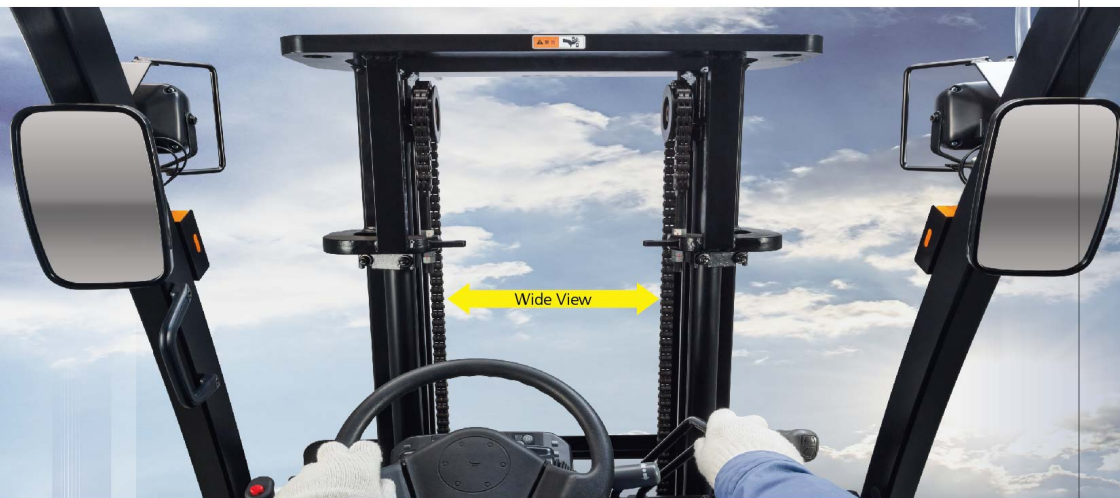


Safety Laser

When the forks are detected as being horizontal, horizontal lasers are projected into the insertion holes on the pallet. By that work, the operator could see the accurate height of the holes, and it leads to the safer labor and the efficiency.




More Safe -Safety-



For Safety of the Logistic Site

QuaPro-B could secure not only the safety of the operator but also could be equipped with the system that makes all workers of the location could feel being secured. We are ready to offer many kinds of the safety options to achieve the secured working environment.



Seat Belt Interlock Option 
When the seat belt is left unfastened, all loading/unloading work get malfunctioned. The function would help to make fastening the seat belt as mandatory behavior.



The Device Locking the travel as the Operator Leaves the Vehicle (Traveling Interlock)

The Traveling interlock device automatically shuts off the running engine when the operator leaves the seat. Preventing a human error from happening, such as the operator accidentally steps on the accelerator. (Note: Does not mean the mechanical brake is automatically on. Suggesting to use the parking brake when to park the vehicle.)



The Device to Lock the Loading Move when the Operator Leaves the Seat (Load handling Interlock)

Many accidents, as a matter of fact, being got caught in between the mast and the head guard happen when an operator stretches his/her body through the mast. The device prevents a human error from happening when the operator is not in the correct operating position by killing the loading lever function.

Blue Mark Option 
The blue LED light forestalls the operator on the closing of another forklift.



The Warning Sound of the Parking Brake

When the operator turns off the key and leaves the seat without putting the parking brake on, the warning sound is set off.



The Rear Assist Grip with the Horn Button
The operator could sound the horn safely even when backing the vehicle without handing off the steering handle and the grip. Option



Reflection Label
The yellow line could be changed to the reflector label. The label raises the safety performance up in a stylish manner. Option

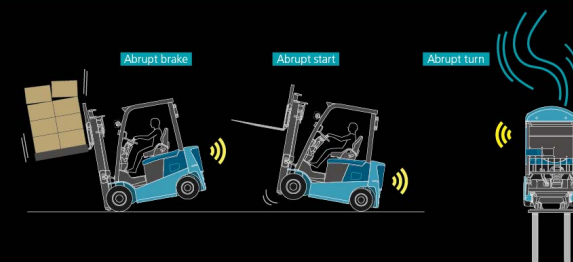


Beep! the sound is to warn the dangerous [abrupt] operation.

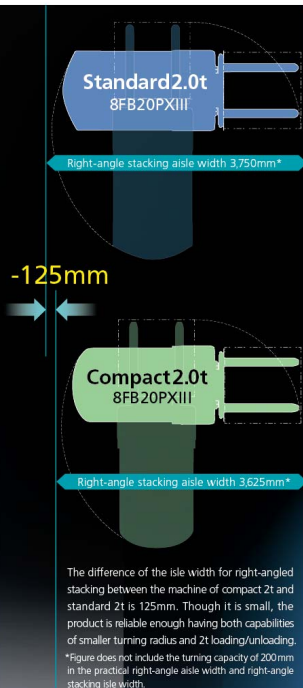
Forklift Option The Alert of Dangerous Operation

The device tells the operator that the operation is dangerous with buzzing sound, of abrupt "acceleration," "deceleration," "turning" while the machine is at the work. (the sensitivity can be adjustable.)

It is available to set the sensitivity individually for abrupt "acceleration/deceleration" and "turning."



-Compact Type-



The Compact Specifications that Materialize One Step Higher Performance for its Smaller Size.

The machine with the compact specifications that demonstrates one step higher performance as the size of the vehicle stays rather small. The product embodies no-stress loading/unloading work as it agilely works even in tight space. The forklift responds to the users' needs "though would like to carry heavier load but wouldn't like to have a larger machine."



COMPACT 2t

With the 1t series vehicle size, materializes the work equivalent to a 2t machine. Compared with the standard 2t forklift (8FB20PXIII), the compact one (8FB20PXIII) has:

Overall Length : Δ 130mm (with fork)
Overall Width : Δ 40mm
Minimum turning radius : Δ 80mm

*Truck with Simplex Mast 4500mm

COMPACT 3.5t

With the 3t series vehicle size, materialized the work equivalent to the 3.5t machine. Compared with the conventional compact 3.5t one (8FB35PXZ):

Overall Length : Δ 225mm (with fork)
Overall Width : Δ 140mm
Minimum turning radius : Δ 315mm

*Truck with Simplex Mast 4500mm

-Battery Side Removal-

The specifications of the side removal battery suits for longer time use.

The system shortens time of battery change. It is applicable to the site of longer time or full day use. The body chassis is same size as the standard product. Compact model is also available.



Three Steps of battery change side-way draw

1



After turning off the power, open the hood by pulling up the battery connector (the red hook).

2



Pulling out the battery used up for another forklift, and to insert a charged battery.

3



To connect the connector and to close the lid.

-Light Duty Model-

The Light Duty Model is equipped with the battery smaller than the one for the standard product "Premium Model."
Responding to the needs "want to save the initial investment."

-Premium Model-



Long time operation, battery life
Operation hour : 9.5HR / +27%
Batt. Life : +1year / +22%

-Light Duty Model-



For short time operation
Operation hour : 7HR / -6%
w / small capacity battery

LED Light Option

The LED light, longer life and fewer consumption of power and no need to change the bulb. When compared, it excels the conventional standard light for better upper and lower lighting directions. Equipped with the light, higher stacking work becomes easier and safety aspect is improved. It contributes to lowering total life range cost for no working loss time as needs no maintenance.



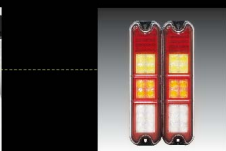
The standardized light



LED light (6-LED type)



Head light (3-LED type)



Head light (6-LED type/with guard)



LED rear combination light



LED rotating light

A Group of the LED Light with Longer Life Span
No worry about running out of the light bulb even in the work site with many rough roads. (the average life span of LED is 40,000 hours.)

-Exterior-



The acrylic cover protecting the operator from the rain and tiny falling objects while having a good visibility of upper view. Option



QuaPro-B Conventional model



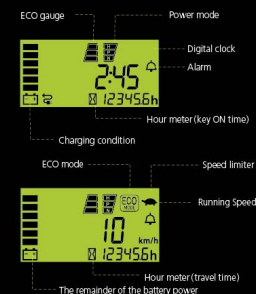
The wider brake pedal makes it possible to easily find the position best fit to an operator's preference, to load and unload that needs sensitive brake manipulation with no stress.

[Brake pedal] [Accelerator] [Brake pedal] [Accelerator]
Making a swift change with both feet Operate with right foot only



Display Option

Equipped as the standard with the hour meter (power on/running time) and the system limiting the speed. The display clearly indicates the condition of the vehicle not only ECO mode and the power mode but also the warning of an emergency.



ECO gauge Power mode
Digital clock
Alarm
Hour meter (key ON time)
Charging condition
ECO mode
Speed limiter
Running Speed
Hour meter (travel time)
The remainder of the battery power



Shift Lever

Equipped as standard with: the shift lever at right hand side, the turn signal lever with the light switch (with auto-canceling system at left hand side). The smooth change of forward and backward can be done. (can be changed to left hand side shift lever (shown on the left) Option)



The Parking Lever

The parking lever with the releasing button. The easy braking action is available with the shorter stroke brake. The extent of the pulling stroke can be adjusted by turning the knob.

The radius of the steering handle : 300mm

Shorter Radius Steering

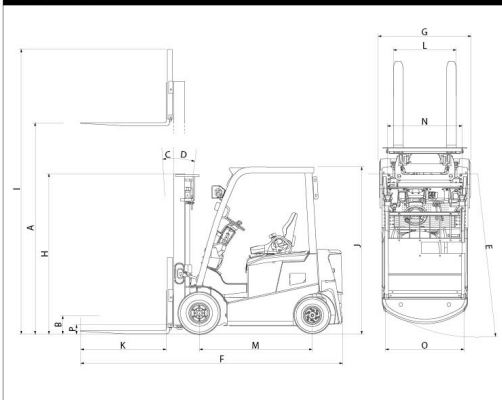
By off setting the steering handle to the left hand side, the room for steering hand move gets smaller. By arranging so, materialized the agile operation and reducing fatigue factors according to the human engineering.

Specifications

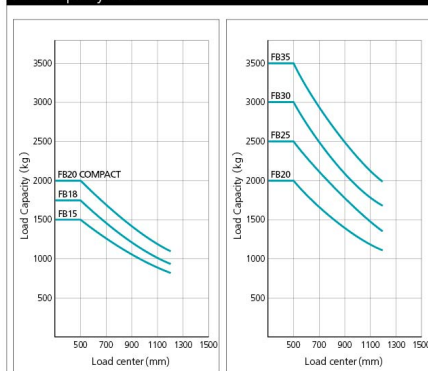
Item / Symbol				Model	PREMIUM	PREMIUM	COMPACT	PREMIUM	PREMIUM	PREMIUM	COMPACT	LIGHT	LIGHT	
				8FB15PXIII	8FB18PXIII	8FB20PSXIII	8FB20PXIII	8FB25PXIII	8FB30PZXIII	8FB35PSZXIII	8FB15PLXIII	8FB25PLXIII		
Performance	Maximum load capacity		kg		1,500	1,750	2,000	2,000	2,500	3,000	3,500	1,500	2,500	
	Standard load center		mm		500	500	500	500	500	500	500	500	500	
	Standard lifting height		mm	A	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	3,000	
	Free lift		mm	B	145	145	155	155	155	160	165	145	155	
	Tilting angle (Up/Down)		deg	C/D	6°/10°	6°/10°	6°/10°	6°/10°	6°/10°	6°/10°	6°/10°	6°/10°	6°/10°	
	Travel speed	(Laden)	km/h		14.0	13.5	12.0	14.0	14.0	14.0	13.0	14.0	14.0	
		(Unladen)	km/h		15.0	15.0	14.0	15.0	15.0	16.5	16.0	15.0	15.0	
	Lifting speed	(Laden)	mm/s		450	420	360	355	335	310	285	450	335	
		(Unladen)	mm/s		635	635	635	600	600	550	500	635	600	
	Minimum turning radius (Outer)		mm	E	1,845	1,875	1,910	1,990	2,035	2,190	2,255	1,845	2,035	
Minimum right-angle aisle width (1100x1100Pallet)				mm		1,875	1,915	1,950	2,025	2,070	2,225	2,285	1,875	2,070
Right-angle stacking aisle width (1100x1100Pallet)				mm		3,355	3,385	3,425	3,550	3,595	3,780	3,855	3,355	3,595
Dimensions	Overall length (with fork)		mm	F	3,045	3,080	3,125	3,255	3,455	3,630	3,715	3,045	3,455	
	Overall width		mm	G	1,100	1,135	1,135	1,160	1,160	1,265	1,265	1,100	1,160	
	Mast lowered height		mm	H	1,995	1,995	1,995	1,995	2,060	2,140	1,995	1,995	1,995	
	Max mast height w/backrest		mm	I	3,955	3,955	3,955	3,970	3,970	4,125	4,125	3,955	3,970	
	Head guard height		mm	J	2,070	2,070	2,070	2,120	2,120	2,140	2,140	2,070	2,120	
	Fork length		mm	K	920	920	920	920	1,070	1,070	1,070	920	1,070	
	Fork spread width (Maximum)		mm	L	920	920	920	1,020	1,020	1,060	1,065	920	1,020	
	Fork spread width (Minimum)		mm	L	200	200	200	250	250	250	305	200	250	
	Wheelbase		mm	M	1,410	1,410	1,410	1,515	1,515	1,655	1,655	1,410	1,515	
	Tread (Front/Rear)		mm	N/O	910 / 905	950 / 905	950 / 905	960 / 1,015	960 / 1,015	1,040 / 1,015	1,040 / 1,015	910 / 905	960 / 1,015	
	Minimum ground clearance (Underneath the mast)		mm	P	85	85	85	120	120	140	140	85	120	
	Vehicle weight		kg		2,890	3,110	3,300	3,615	4,100	4,575	5,100	2,890	4,100	
	Tires	Front wheel			6.00-9-10PR(I)	21x8-9-14PR(I)	21x8-9-14PR(I)	7.00-12-12PR(I)	7.00-12-12PR(I)	28x9-15-14PR(I)	28x9-15 SOLID	6.00-9-10PR(I)	7.00-12-12PR(I)	
		Rear wheel			5.00-8-8PR(I)	5.00-8-10PR(I)	5.00-8-10PR(I)	18x7-8-10PR(I)	18x7-8-10PR(I)	18x7-8-14PR(I)	18x7-8 SOLID	5.00-8-8PR(I)	18x7-8-10PR(I)	
Electrical components	Travel	Control type		FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	
		Output	kW		5.6	5.6	5.6	8.3	8.3	11.7	11.7	5.6	8.3	
	Hoist	Control type		FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	
		Output	kW		9.6	9.6	9.6	9.6	9.6	16.2	16.2	9.6	9.6	
	Steering	Control type		FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	FET inverter	
		Output	kW		9.6	9.6	9.6	9.6	9.6	16.2	16.2	9.6	9.6	
Storage Battery	Type			clad	clad	clad	clad	clad	clad	clad	clad	clad	clad	
	Voltage: 5Hr	V/Ah		48 / 390	48 / 390	48 / 390	48 / 440	48 / 565	72 / 440	72 / 440	48 / 280	48 / 390	48 / 390	
Dual Tires*	Tread (Front)		mm		—	—	—	1,105	1,105	1,105	—	—	1,105	
	Vehicle weight		kg		—	—	—	3,720	4,205	4,630	5,100	—	4,205	
	Front wheel				—	—	—	5.50-15-8PR(I)	5.50-15-8PR(I)	6.00-15-10PR(I)	6.00-15-10 SOLID	—	5.50-15-8PR(I)	

*The model with dual tire specification is set to add 35mm to the total height (mast/head guard) and minimum ground height (underneath the mast). Also the model without preset specification will be the subject of customization.

Dimension Chart



Load Capacity Charts



*Above mentioned is the data for 2 Limited-free 3.000mm.

Main Accessories

		Standard specs /accessories	Posted page	Optional specs /accessories	Posted page
Operable Longer	•Long Time Operation •Long Life	Travel / Hoist AC motor		Battery water batch refilling device	
		Auto power off		Spare battery • Separately placed battery charger	
		Regenerative traveling (Neutral brake shift lever)			
		BDI Interrupt (over-discharge load handling lock)			
		ECO mode / ECO gauge	P04,12		
Sound Nature of the Machine	•Productivity •Comfortability	Soft landing		Simple load weight scale	
		Pitching control		LED room lamp	
		Suspension seat		Carriage light	P06
		Road sensing steering system		Safety laser	P06
		PHPS (full hydraulic power steering)			
		STC (Safety Turn Control)	P06		
More Safe	•Safety	Travel and load handling interlock	P07	Forward / back movement chimer	
		Lift/ Tilt Driving speed limit		The alert of dangerous operation	P07
		Driving acceleration, Power adjustment		Rear assist grip (with a horn switch)	P07
		Neutral start		Seat belt interlock	P07
		The warning sound of the parking brake	P08	Password entry	
		Anti-rollback		LED headlight	P11
		Slope speed limiter		LED rear combination light	
		High-visibility wide mast		LED rotating light	P11
		Front winkers light		LED work light	
		Rear combination light	P11	Blue mark	