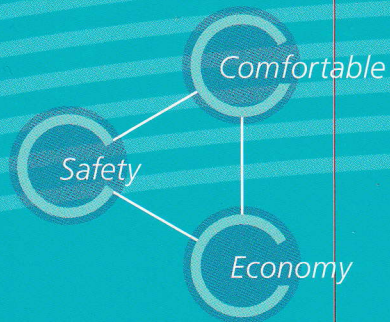


# QuaPro-R

Electric Reach Forklift Trucks



2.0 TON — 3.0 TON

8FBR 20 · 25 · 30(L)XII

8FBR 20 · 25 · 30(L)J XII



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



**SUMITOMO**

# Human Sensible

## Intuitive operation with man-machine feeling

The design concept of human-machine integration continues to thrive in this newly developed 2-3-ton model of the QuaPro-R series.

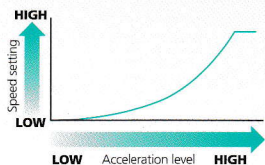
Operators can enjoy enhanced feelings of natural and comfortable operation in response to their commands, leading to improved load-handling efficiency and increased overall productivity.

## 1. Comfortable

### Smooth manipulation feeling

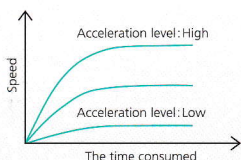
#### The characteristics of travel acceleration

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



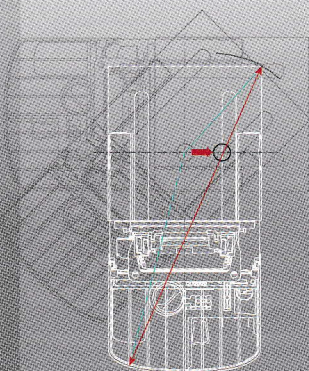
#### The characteristics of travel acceleration

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

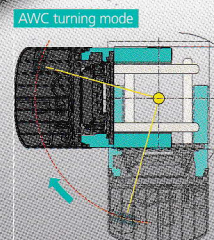
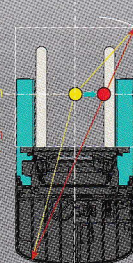
Changed the characteristics for more delicate operation by widening the low-speed range of the lift valve. Also, changed the loading and unloading motor from DC to AC use. The change made both good response and easy inching compatible by optimizing the start control of the motor.



#### "AWC (small turning radius control)" Patented

Sumitomo's patented technology Aisle Width Control (AWC/small turn radius control), making an expert's possible for anybody. The operator could easily work without frequent switch back.

- The turning center in AWC turning mode
- The turning center in AWC stacking mode



Additional room of the aisle made by stacking mode



320mm  
(30mm lower than previous models)

**Lowered floor**  
Reduces fatigue during getting on and off

# 2. Economy

## 7-percent energy savings achieved

Thorough study of the previous model, such as introducing an AC motor for load handling, adding a turning-control function, and improving the hydraulic equipment efficiency, has resulted in 7-percent energy savings.

\*In-company test value using our driving pattern and power-mode 1

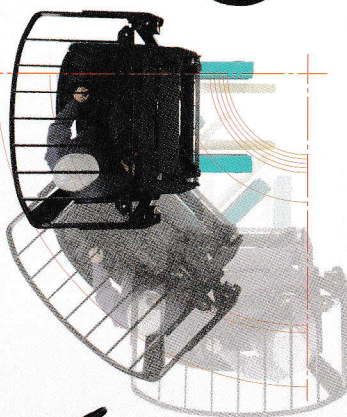
## Operation time increased by 30 minutes

Prolong of approximately 30 minutes in operating time compared to our previous model is realized by reducing power consumption. The energy savings provide benefits in various situations, such as less recharging times and less worries for unexpected additional work.

# 3. Safety

## Turning speed control

The torque of the drive motor is controlled according to the amount of steering operation. As a result, dangerous speed is controlled while the forklift is turning, reducing the possibility of hazardous events such as a tip-over. In addition, unnecessary acceleration is prevented, this contributes to energy saving. The control is optimized according to the amount of steering operation, therefore operability is not sacrificed.



## Slope speed limiter

The slope speed limiter, which controls 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.



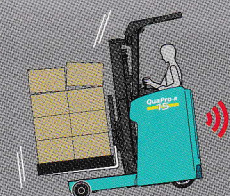
Beep! the sound is to warn the dangerous [abrupt] operation.

## Forklift Option The Alert of Dangerous Operation

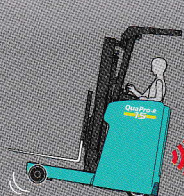
The device tells the operator that the operation is dangerous with buzzing sound, of abrupt "Sudden acceleration," "Sudden deceleration," "Sudden turning" while the machine is at the work. (the threshold can be adjustable.)

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

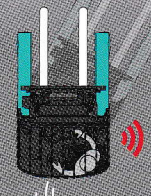
Abrupt brake



Abrupt start



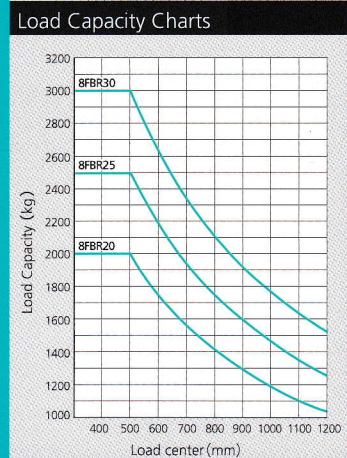
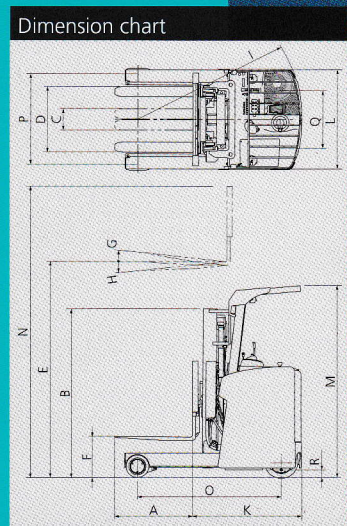
Abrupt turn



	2.0t	2.5t	3.0t
9.5m		OPT	
8.0m	OPT	OPT	
7.5m	OPT	OPT	
7.0m	OPT	OPT	
6.5m	OPT	OPT	
6.0m	OPT	OPT	OPT

Available lifting height

Specifications			*side battery removal						
Item/Symbol	Model/Type		2.0 ton		2.5 ton		3.0 ton		
			8FBR20XII 8FBR20JXII*	8FBR20LXII*	8FBR25XII 8FBR25JXII*	8FBR25LXII*	8FBR25LTJXIIH 8FBR30XII*		
Dimensions	Maximum load capacity	kg	2,000		2,500		3,000		
	Standard load center	mm	500						
	Standard lifting height	mm	E	3,000	4,000	3,000	4,000	9,500	3,000
	Free lift	mm	F	150			3,130	155	
	Tilting angle (up/down)	deg	G/H	5° / 3°					
	Fork length	mm	A	920					
	Fork spread width	mm	D/C	maximum 780 / minimum 250					
	Overall length (with fork)	mm	A+K	2,210		2,440		2,310	
	Reach stroke	mm		665		840		635	840
	Overall width *1	mm	L	1,190 *1		1,210 *1		1,320	1,210 *1
	Mast lowered height	mm	B	1,995	2,620	1,995	2,620	4,070	2,020
	Max mast height w/backrest	mm	N	3,950	4,950	3,950	4,950	10,445	3,955
	Head guard height	mm	M	2,270					
	Performance	Travel speed (Laden)	km/h	9					
Travel speed (Unladen)		km/h	9.5						
Lifting speed (Laden)		mm/s	315		295		280	245	
Lifting speed (Unladen)		mm/s	500		500		380	415	
Vehicle weight		kg	2,960	3,130	3,010	3,175	4,560	3,200	
			3,040*	3,220*	3,105*	3,270*		3,250*	
Travel device	Tires	Front wheel	Urethane; φ267×114			Urethane; φ267×135			
		Drive wheel	Rubber; φ394×152						
		Caster wheel	Rubber; φ204×74			Urethane; φ204×74			
	Wheel base	mm	O	1,525	1,700		1,800		
	Tread	Front	mm	P	1,080	1,075		1,185	1,075
		Rear	mm	Q	725				
Minimum ground clearance	mm	R	48 / 312			48 / 440	48 / 370		
Drive device	Travel motor	Output	5.2						
		Control type	FET inverter						
	Hoist motor	Output	9.6						
		Control type	FET inverter						
	Steering motor	Output	0.3						
	Control type	FET chopper							



\*1: The chassis is wide type (150mm wider than standard chassis) when the mast select 6.5M or over.

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	Mast	Battery	Intersecting (IA) and Right-angle aisle width					Right-angle stacking (SA) aisle width *1															
			L	W	L	W	L	W	L	W	L	W											
2.0 ton	8FBR20XII 8FBR20LXII	Standard	*312/370Ah	1,800	1,800	1,810	1,820	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	
			440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			476Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
		3-stage full-free	*312/370Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			476Ah	1,800	1,800	1,810	1,830	1,820	2,400	2,560	2,580	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670
2.5 ton	8FBR25XII 8FBR25LXII	Standard	*312/370Ah	1,890	1,890	1,900	1,910	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	1,900	
			440Ah	1,900	1,900	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			476Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
		3-stage full-free	*312/370/440Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	1,900	1,890	1,900	1,910	1,910	2,410	2,560	2,580	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670
			476Ah	1,900	1,890	1,900	1,920	1,910	2,400	2,560	2,580	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670	2,600	2,670
3.0 ton	8FBR30XII	Standard	*370/440/476Ah	1,950	1,940	1,950	1,960	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	
			*370/440/476Ah	2,100	2,100	2,110	2,120	2,120	2,470	2,630	2,650	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740
			*370/440/476Ah	1,800	1,800	1,810	1,820	1,810	2,300	2,450	2,470	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560
		3-stage full-free	*312/370/440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	1,890	1,890	1,900	1,920	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			*312/370/440Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
2.0 ton	8FBR20(L)XII	Standard	*312/370/440Ah	1,800	1,800	1,810	1,820	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	1,810	
			*312/370/440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			*312/370/440Ah	1,890	1,890	1,900	1,920	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
		3-stage full-free	*312/370/440Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	2,000	2,020	2,030	2,040	2,030	2,490	2,660	2,680	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770
			*370/440Ah	1,950	1,940	1,950	1,960	1,950	2,400	2,540	2,560	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650
2.5 ton	8FBR25(L)XII	Standard	*312/370/440Ah	1,890	1,890	1,900	1,920	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	1,910	
			*312/370/440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			*312/370/440Ah	1,890	1,890	1,900	1,920	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
		3-stage full-free	*312/370/440Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	2,000	2,020	2,030	2,040	2,030	2,490	2,660	2,680	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770	2,690	2,770
			*370/440Ah	1,950	1,940	1,950	1,960	1,950	2,400	2,540	2,560	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650	2,590	2,650
3.0 ton	8FBR25LTJXIIH 8FBR30JXII	Standard	*370/440Ah	1,950	1,940	1,950	1,960	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	1,950	
			*370/440Ah	2,100	2,100	2,110	2,120	2,120	2,470	2,630	2,650	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740	2,670	2,740
			*370/440Ah	1,800	1,800	1,810	1,820	1,810	2,300	2,450	2,470	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560	2,490	2,560
		3-stage full-free	*312/370/440Ah	1,800	1,800	1,810	1,830	1,820	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			440Ah	1,890	1,890	1,900	1,920	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650
			*312/370/440Ah	1,900	1,890	1,900	1,910	1,910	2,380	2,530	2,550	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650	2,580	2,650

The model marked with \* is a standardized one.  
\*1: The width of the aisle is for loading work at right angles regulated by JIS D 6202.

- The following "Environmental specs." options are available.
- Fisheries-use spec. model (Up to -10°C)
  - General freezer refrigerator spec. model (Up to -35°C/-45°C)
  - Fisheries-use freezer refrigerator spec. model (Up to -35°C/-45°C)
  - Anti-rust spec. model ● Anti-dust spec. model

