

SUMITOMO ELECTRIC FORKLIFT TRUCKS

3.5-4.0-ton



 **SUMITOMO**

Powerful, high-speed forklifts for efficient handling of large, heavy loads!

Rugged power, nimble footwork, and excellent controllability. Incorporating the latest in electronics technology, SUMITOMO's new range of 3.5~4.0 ton large electric forklifts can handle heavy loads and large, cumbersome goods with ease and reliability.



Outstanding working performance that beats the pack!

Top class speed

High-performance motors installed for travel and goods handling, to boost operation efficiency and shift large, heavy loads smoothly and speedily.

Compact body

Unbelievably compact body for a heavy-duty forklift. Nifty maneuvering round narrow warehouse aisles.

Travel speed
18.0 km/h (unladen)

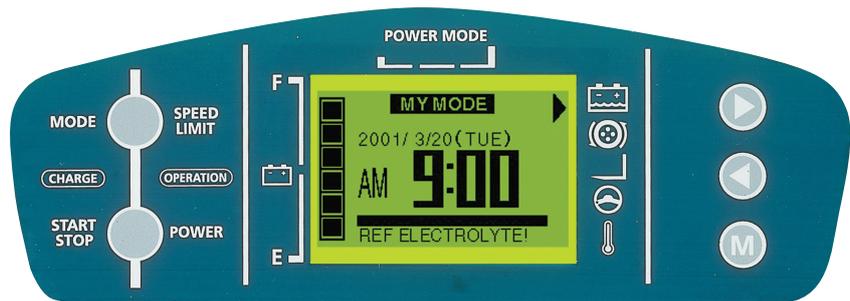
Lifting speed
480 mm/s (unladen)



All the features needed for comfort on the job

Easy-to-read multi-display screen

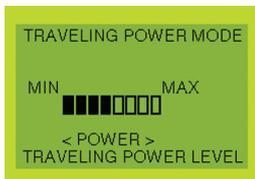
Multi-display screen gives data on vehicle status, including travel speed, battery discharge indication, password entry, and operation management.



Display shows data according to vehicle status: speedometer and battery discharge indicator during travel, and digital clock and battery discharge indicator when stationary.

< HISTORICAL DATA >				1/3
	0319	0318	0317	
KEY	7.0	6.0	5.0	h
TOT	5.0	4.0	3.0	h
HYD	1.5	1.5	1.5	h
TRV	4.5	3.5	2.5	h
ODO	15.5	13.5	11.5	Km
CHG	8.0	7.0	6.0	h

Operational data including several hour meters, travel distance, and charging time, are recorded for weekly periods.



Operator can select from 3 working modes: 'energy-saving' mode, mid-high power plus hyper mode, and 'my' mode, which allows operator to make own settings.



For security, password entry feature requires a numeric code to be input before the vehicle can be switched ON. Up to 10 codes can be pre-set.

High energy-saving performance

All the braking energy generated when reducing speed, by releasing accelerator, applying brake, shifting levers, etc., as well as inertia in mast, is returned to the batteries for high energy efficiency.

- Neutral regenerative
- Brake pedal regenerative
- Shift lever regenerative
- Hydraulic regenerative

Open step for easy access

Wide, low step for ready mounting/dismounting, despite the vehicle's large size.



Adjustable seat

Operator's seat slides forward/back for adjustment at the optimal position to keep operator free of fatigue over long stretches.



Tilt-adjustable steering wheel

Steering wheel can be adjusted at the most comfortable angle for the operator.



Heavy-duty head guard

Large, heavy-duty head guard keeps operator safe.



Auto power-OFF

Power switches OFF automatically if the vehicle is not operated for more than 15 mins. Power is not wasted due to operator's oversight.

Advantages of AC drive system

Motor

1. Simple, robust structure

Stator coil and rotor are only major components. Bearing only part that may require replacement.

2. Maximum torque is limited, reducing risk of overheating

Thermo sensor reports stator coil temperature to control system, to protect motor from overheating. Transistors in the controller are similarly protected.

3. Large torque at high speed

Large torque even in mid- to high-speed range allows good acceleration.

4. Large regenerative torque

Large regenerative torque provides good maneuverability.

Controller

1. No F/R contactor or regenerative contactor required

Crisp response, reduced maintenance, and less noise.

2. Regenerative braking throughout speed range

Regenerative braking from zero to top speed improves driveability and recovers more energy.

3. Excellent control across speed range

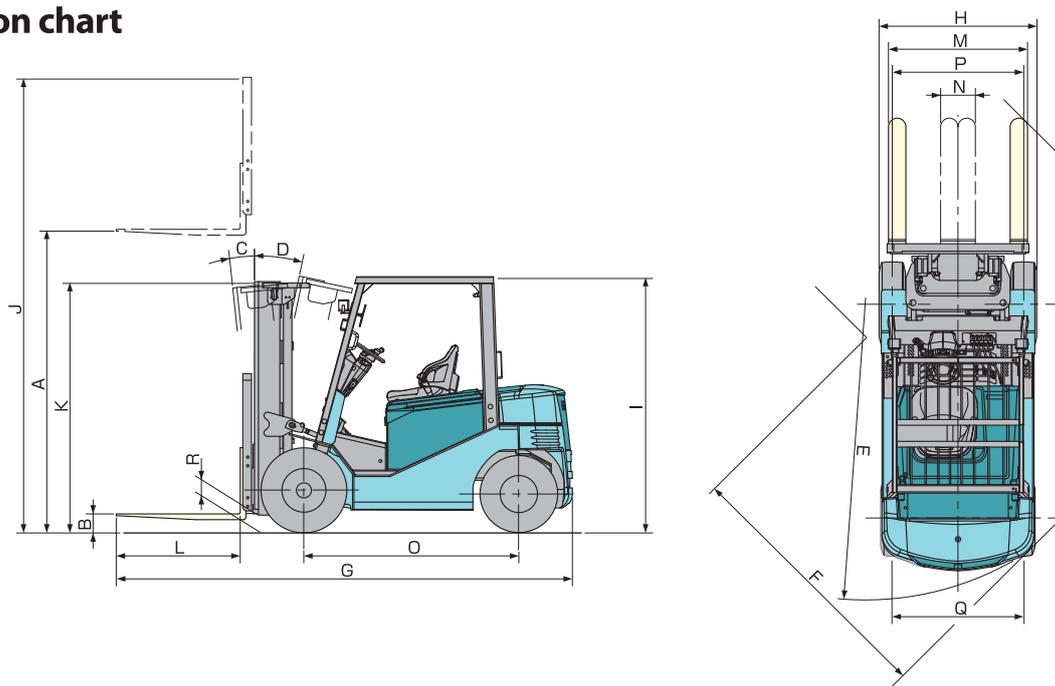
Consistently high controllability from low to high speed.



Specifications

Model				8FB35PZX	8FB40PZX
Performance					
Capacity		kg		3,500	4,000
With load center at		mm		600	600
Max. Lifting height	A	mm		3,010	3,010
Standard free lift	B	mm		150	145
Tilt of mast (Forward/backward)	C/D	digree		6/12	6/12
Travel speed	Unladen	km/h		18,0	18,0
	Laden	km/h		17,0	16,5
Liftingspeed	Unladen	mm/s		480	480
	Laden	mm/s		370	350
Minimum turning radius	E	mm		2,570	2,720
Equal aisle width		mm		2,300	2,370
Dimensions					
Overall length	with forks	G	mm	3,940	4,085
Overall width		H	mm	1,360	1,360
Height	Canopy guard	I	mm	2,215	2,280
	Extended mast	J	mm	4,250	4,250
	Collapsed mast	K	mm	2,170	2,170
Fork length		L	mm	1,070	1,070
Fork spread	Max.-Min.	M/N	mm	1,200-300	1,200-300
Wheelbase		O	mm	1,855	2,000
Tread	Front/Rear	P/Q	mm	1,130/1,140	1,130/1,140
Ground clearance	Mast	R	mm	140	140
Unladen weight	w/ standard battery		kg	5,720	5,950
	w/o battery		kg	4,390	4,410
Tire					
Front wheels				2,50-15-16PR (I)	2,50-15-18PR (I)
Back wheels				7,00-12-12PR (I)	7,00-12-12PR (I)
Electrical Components					
Control type	Drive			FET inverter	FET inverter
	Hoist			FET inverter	FET inverter
	Steering			IGBT chopper	IGBT chopper
Drive motor	Type			AC induction	AC induction
	Rated output	kW		10,3	10,3
Hoist motor	Type			AC induction	AC induction
	Rated output	kW		20,9	20,9
Power steer motor	Type			DC permanent magnet	DC permanent magnet
	Rated output	kW		1,2	1,2
Battery compartment	W × L × H		mm	710 × 1,028 × 780	800 × 1,028 × 780
Battery capacity	Minimum	Volt × Ah/hr		72 × 440/5	72 × 600/5
	Maximum	Volt × Ah/hr		72 × 600/5	72 × 700/5
Dual Tire					
Overall width			mm	1,760	1,760
Tread	Front		mm	1,305	1,305
Unladen weight	w/o battery		kg	4,440	4,460
Tyre size	Front			7,00-15-10PR (I)	7,00-15-10PR (I)

Dimension chart



Main Accessories

●: Standard △: Optional

	8FB35PZX	8FB40PZX
Controls		
Auto-power-OFF	●	●
Regenerative braking	●	●
Neutral regeneration (*1)	●	●
Ramp start (*2)	●	●
Neutral start (*3)	●	●
Accelerator pedal adjustment (*4)	●	●
Traction power adjustment (*4)	●	●
Hoist speed limit (*4)	●	●
Tilt speed limit (*4)	●	●
Travel speed limit (*5)	●	●
BDI interrupt (*6)	●	●
Multi-display		
Battery discharge indicator	●	●
Digital clock	●	●
Multi hour meters	●	●
Speedometer	●	●
Safety monitor	●	●
Operation management	●	●
Password entry (*7)	●	●
Lights		
Headlights (*8)	●	●
Turning indicators	●	●
Back buzzer	●	●
Tilting steering wheel	●	●
Suspension seat	△	△
Battery Ah/5HR (72V)		
440	●	
600	△	●
700	△	△

- *1 Releasing accelerator during travel activates regenerative braking to slow vehicle speed.
 *2 When starting on a grade, automatic torque adjustment prevents roll-back.
 *3 If the key is switched ON with travel lever engaged or accelerator depressed, vehicle is held stationary and an error message is displayed.
 *4 Acceleration, and power, hoist and tilt speeds can be adjusted to match job requirements.
 *5 Max. speed can be set to conform with workplace speed limit.
 *6 When battery charge falls below 20%, hoist speed is first reduced by 50%, then fork operation stops altogether, to prevent damage to batteries.
 *7 10 different codes can be pre-set.
 *8 With warning buzzer.

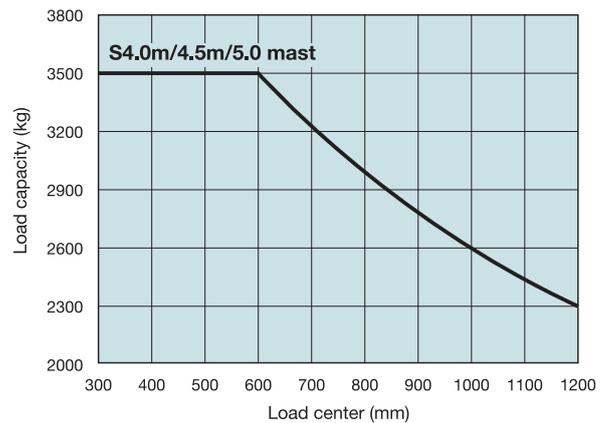
Masts

Max. lifting height	8FB35/40PZX
3000mm	◎ △
3300mm	○
3500mm	○
3700mm	○
4000mm	○ ★
4300mm	○
4500mm	○
4700mm	○
5000mm	○ ★
5300mm	★
5700mm	★
6000mm	★

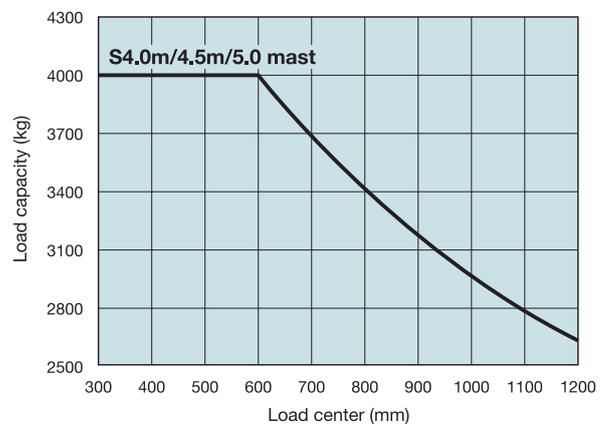
- ◎ Standard mast
 ○ High mast
 ★ 3-stage full-free mast
 △ full-free mast

Load Capacity Charts

8FB35PZX



8FB40PZX



Options

- Long fork
- Extension fork
- High backrest
- Wide carriage
- Double tires
- Pneumatic solid tires
- Colored tires
- Windscreen
- Rear view mirror
- Left-hand shift levers
- Working lights
- Rotating lights
- Forward/reverse chime
- Forward/reverse melody alarm
- Battery top up device
- Spare battery



For safe and reliable operation, it is essential to read the user's manual carefully before using this equipment.

SUMITOMO NACCO MATERIALS HANDLING continually upgrades and improves its products. Actual features and specifications may therefore differ slightly from those described in this catalog.



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SUMITOMO NACCO MATERIALS HANDLING CO., LTD., manufacturer of forklift trucks and materials handling equipments, uses a quality management system certified compliant with ISO9001.



SUMITOMO NACCO MATERIALS HANDLING CO., LTD., manufacturer of forklift trucks and materials handling equipments, uses an environmental management system certified compliant with ISO14001.

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