



SUMITOMO ELECTRIC FORKLIFT TRUCKS

3.5-4.0-ton



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.



SUMITOMO
NACCO MATERIALS HANDLING

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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.

Manufactured by

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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)

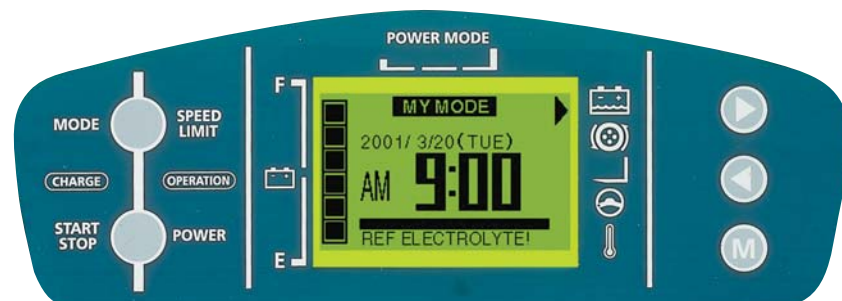
Lifting speed
480 mm/s (unladen)



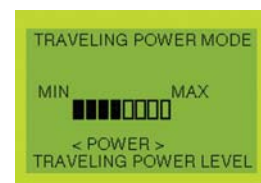
All the features needed for comfort on the job

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.



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.



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



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.



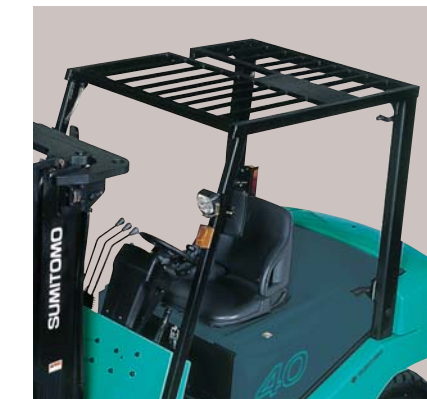
Tilt-adjustable steering wheel

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

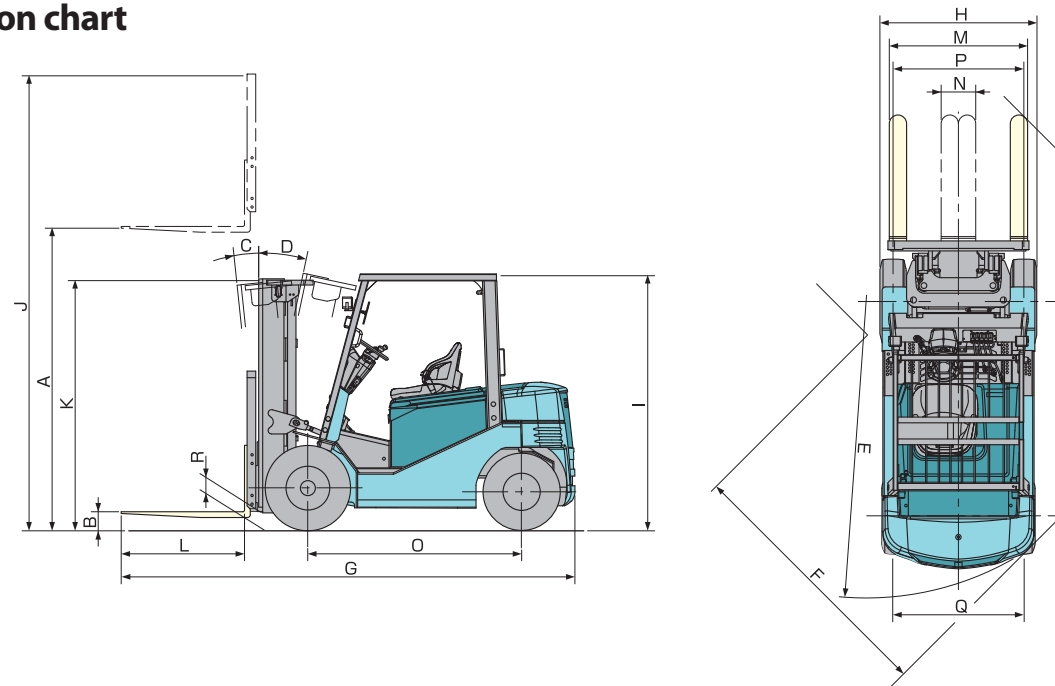
- 1. No F/R contactor or regenerative contactor required**
Crisp response, reduced maintenance, and less noise.
- 2. Regenerative braking throughout speed range**
Regenerative braking from zero to top speed improves driveability and recovers more energy.
- 3. Excellent control across speed range**
Consistently 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 degree	6/12		6/12
Travel speed	Unladen km/h	18.0		18.0
(Standard tread)	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 x L x H	mm	710 x 1,028 x 780	800 x 1,028 x 780
Battery capacity	Minimum	Volt x Ah/hr	72 x 440/5	72 x 600/5
	Maximum	Volt x Ah/hr	72 x 600/5	72 x 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	

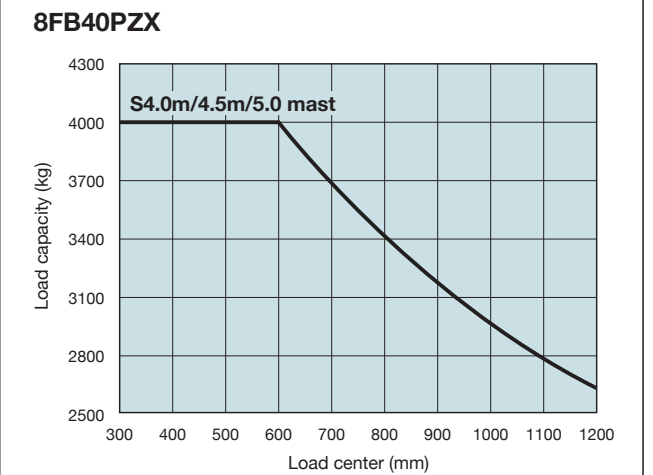
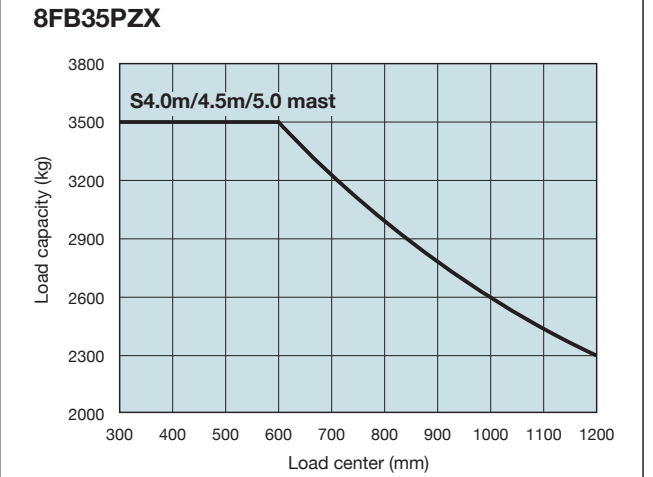
- *1 Releasing accelerator during travel activates regenerative braking to slow vehicle speed.
- *2 When starting on a grade, automatic torque adjustment prevents roll-back.
- *3 If the key is switched ON with travel lever engaged or accelerator depressed, vehicle is held stationary and an error message 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



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