

| Specifications | | | | * front : front battery removal | | side : side battery removal | | |
|-------------------------------|--------------------------------|--------------|---------|---------------------------------|---------------|-----------------------------|---------------|--------------------|
| Model/Type Item/Symbol | | | | 2.0 ton | | 2.5 ton | | 3.0 ton |
| | | | | 8FBR20(T)X | 8FBR20L(T)X | 8FBR25(T)X | 8FBR25L(T)X | 8FBR30(T)X |
| | | | | standard | high stacking | standard | high stacking | standard |
| Performance | 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 | 3,000 |
| | Free lift | mm | F | 150 (1,030) | | 150 (1,030) | | 155 (1,025) |
| | Reach stroke | mm | | * front 700 / side 680 | | 865 | | 865 |
| | Tilting angle (up/down) | | deg G/H | 5° / 3° | | | | |
| | Travel speed | (Laden) | km/h | 10.0 | | 9.5 | | 9.0 |
| | | (Unladen) | km/h | 11.5 | | 11.5 | | 11.0 |
| | Lifting speed | (Laden) | mm/s | 300 | | 280 | | 220 |
| | | (Unladen) | mm/s | 500 | | 500 | | 420 |
| Dimensions | Minimum turning radius (outer) | mm | I | 1,780 | | 1,955 | | 2,055 |
| | Overall length (with fork) | mm | A+K | * front 2,190 / side 2,205 | | * front 2,195 / side 2,205 | | 2,300 |
| | Overall width | mm | L | 1,165 | | 1,220 | | 1,220 |
| | Mast lowered height | mm | B | 1,995 | 2,620 | 1,995 | 2,620 | 2,020 |
| | Max mast height w/backrest | mm | N | 3,940 | 4,940 | 3,940 | 4,940 | 3,945 |
| | Head guard height | mm | M | 2,300 | | | | |
| | Step height | mm | S | 350 | | | | |
| | Fork length | mm | A | 920 | | | | |
| | Fork spread width (maximum) | mm | D | 780 | | | | |
| | Fork spread width (minimum) | mm | C | 255 | | | | |
| Tires | Wheel base | mm | O | 1,525 | | 1,700 | | 1,800 |
| | Tread (front/rear) | mm | P/Q | 1,044 / 715 | | 1,086 / 715 | | 1,086 / 715 |
| | Minimum ground clearance | mm | R | 85 | | | | |
| | Vehicle weight | kg | | 2,925(3,100) | 3,125(3,190) | 3,090(3,260) | 3,290(3,350) | 3,325(3,490) |
| | Front wheel | | | urethane; φ267×114 | | urethane; φ267×135 | | urethane; φ267×135 |
| Tires | Drive wheel | | | Rubber; φ394×152 | | | | |
| | Caster wheel | | | Rubber; φ204×74 | | Rubber; φ204×74 | | urethane; φ204×74 |
| Electrical components | Travel motor | Control type | | MOS inverter | | | | |
| | | Output | kW | 5.2 | | | | |
| | Hoist motor | Control type | | IGBT chopper | | | | |
| | | Output | kW | 11.0 | | | | |
| | Steering motor | Control type | | FET chopper | | | | |
| | | Output | kW | 0.3 | | | | |
| Rechargeable battery | Voltage × Capacity | V×Ah | | 48×312 | | 48× 312 | | 48×370 |

| Aisle width (unit: mm) | | | Pallet length: L, Pallet width: W | | | | | | | | | | | |
|------------------------|-----------------------|----------------------|-----------------------------------|---|---|-------|-------|-------|-------|--|-------|-------|-------|-------|
| Model | | Mast | Battery | L | Intersecting (IA) and Right-angle aisle width | | | | | Right-angle stacking (SA) aisle width *1 | | | | |
| | | | | | W | 800 | 1,000 | 1,000 | 1,000 | 1,100 | 800 | 1,000 | 1,000 | 1,000 |
| 2.0 ton | 8FBR20X 8FBR20LX | Standard / Semi-free | *312/370Ah | | 1,100 | 1,000 | 1,100 | 1,200 | 1,100 | 1,100 | 1,000 | 1,100 | 1,200 | 1,100 |
| | | | 440Ah | | 1,800 | 1,790 | 1,800 | 1,830 | 1,810 | 2,410 | 2,500 | 2,530 | 2,570 | 2,600 |
| | | | 476Ah | | 1,800 | 1,800 | 1,810 | 1,840 | 1,820 | 2,450 | 2,550 | 2,580 | 2,620 | 2,660 |
| | 8FBR20TX 8FBR20LTX | 3-stage full-free | *312/370Ah | | 1,800 | 1,800 | 1,810 | 1,830 | 1,810 | 2,440 | 2,530 | 2,570 | 2,600 | 2,640 |
| | | | 440Ah | | 1,800 | 1,800 | 1,810 | 1,840 | 1,820 | 2,480 | 2,590 | 2,620 | 2,650 | 2,700 |
| | | | 476Ah | | 1,800 | 1,800 | 1,810 | 1,840 | 1,820 | 2,500 | 2,610 | 2,640 | 2,670 | 2,720 |
| 2.5 ton | 8FBR25X 8FBR25LX | Standard / Semi-free | *312/370Ah | | 1,880 | 1,870 | 1,890 | 1,910 | 1,890 | 2,520 | 2,560 | 2,600 | 2,640 | 2,660 |
| | | | 440Ah | | 1,880 | 1,880 | 1,890 | 1,910 | 1,890 | 2,550 | 2,610 | 2,650 | 2,690 | 2,720 |
| | | | 476Ah | | 1,880 | 1,880 | 1,890 | 1,920 | 1,900 | 2,570 | 2,640 | 2,680 | 2,720 | 2,750 |
| | 8FBR25TX 8FBR25LTX | 3-stage full-free | *312/370/440Ah | | 1,880 | 1,880 | 1,890 | 1,910 | 1,890 | 2,550 | 2,610 | 2,650 | 2,690 | 2,720 |
| | | | 476Ah | | 1,880 | 1,880 | 1,890 | 1,920 | 1,900 | 2,570 | 2,640 | 2,680 | 2,720 | 2,750 |
| | | | | | 1,930 | 1,930 | 1,940 | 1,960 | 1,940 | 2,620 | 2,660 | 2,700 | 2,750 | 2,760 |
| 3.0 ton | 8FBR30X | Standard / Semi-free | *370/440/476Ah | | 1,930 | 1,930 | 1,940 | 1,970 | 1,940 | 2,650 | 2,720 | 2,760 | 2,800 | 2,820 |
| | 8FBR30TX | 3-stage full-free | *370/440/476Ah | | 1,930 | 1,930 | 1,940 | 1,970 | 1,940 | 2,650 | 2,720 | 2,760 | 2,800 | 2,820 |

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℃)
 - General freezer refrigerator spec. model (Up to -35℃/-45℃)
 - Fisheries-use freezer refrigerator spec. model (Up to -35℃/-45℃)
 - Anti-rust spec. model ● Anti-dust spec. model



For the forklift driver operations, inspection and maintenance, always read the instruction manual and follow the instructions correctly.

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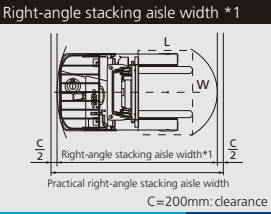
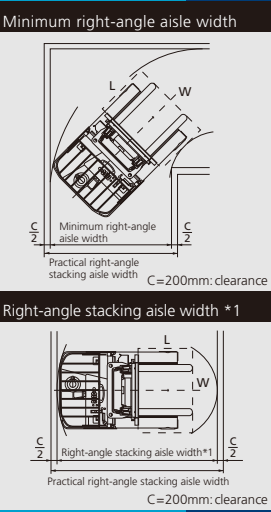
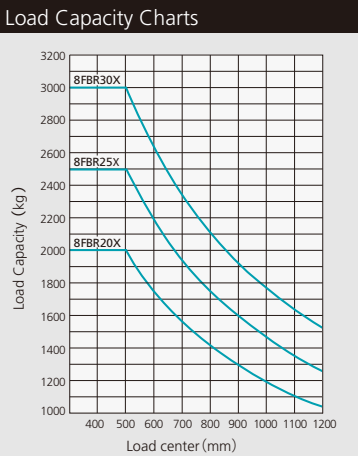
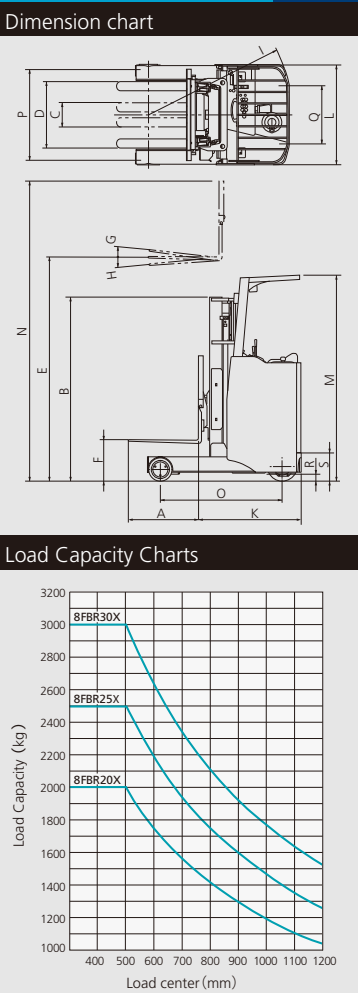
SUMITOMO
NACCO MATERIALS HANDLING

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CODE
ER-02A

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

*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.



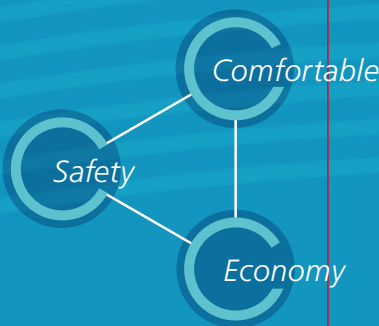
SUMITOMO

Reach-type Battery Forklift Trucks

2.0 TON — 3.0 TON

8FBR 20·25·30 X
8FBR 20·25 LX

FBR-E



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 keeps out in front.

SUMITOMO

Powerful & Smart

Powerful and smart SUMITOMO Reach Forklift will innovate warehouse-logistics.

Comfortable

Comfortable operation in wide range from powerful to delicate will be assured by the maximum utilization of the characteristics of smooth rotation of an AC motor. Also the machine realizes excellent economic efficiency by the Regenerative System of the AC Controller.

Regenerative System

The system realizes long duration and energy saving operation by regenerative braking energy into the battery as the machine slows down. Also as the system leads to reduction of the load on the parts of the brake system, their operation life will extend.



Economy

Unified management of simple operations contributes 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)
- Operator setting mode display



Full-function display Option

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)

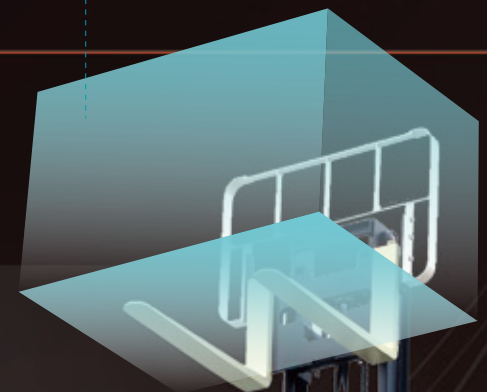


▼ Convenient layout of controls
The ergonomic layout of levers, steering wheel and switch controls is designed for ease of operation and greater operator comfort.

No load reductions at high lifting.

| | ~ 4.0m | ~ 4.3m | ~ 5.0m |
|------|--------|---------------|--------|
| 2.0t | STD | | HS |
| 2.5t | STD | | HS |
| 3.0t | STD | STD (triplex) | - |

STD: standard / HS: high stacking
*Load Center 500mm



Up to 4.0m, no load reduction.

► Better stability in turning
By restraining the inclination and floating of the vehicle as it is turning, the machine will provide the operator with safe and comfortable operation.

Main Accessories

| | Standard specs / accessories | Optional specs / accessories | | Standard specs / accessories | Optional specs / accessories |
|----------------|---|---|--------|------------------------------------|--|
| Comfortability | Travel AC motor | Large diameter steering wheel | Safety | Travel and load handling interlock | LED headlights |
| | Hoist DC motor | | | Neutral start | LED auto lights (light sensitive type) |
| | Soft landing | | | Anti-rollback | LED rotating light |
| | High-visibility wide mast | | | Headlights | Work light / Room light (LED type / electric bulb type selection is available) |
| | Small diameter steering wheel | | | Turning indicators | Anti-skid traction control |
| | Manifest clip | | | Back buzzer | Traction control |
| Economy | Travel speed/power adjustment/speed limiter | | | | PCS *2 |
| | Display*1 | LCD display | | | Rear view mirror |
| | Battery | Auto power off | | | Forward/back movement chimer |
| | | BDI interrupt (stop hoisting at over discharging) | | | Forward/back melodic chimer |
| | | Neutral brake switchback regeneration | | | |
| | | Spare battery | | | |
| | | Battery carrier | | | |

*1: For the standard and full function display; refer to "Economy" (in this page) for details.

*2: Performs shock-less start to finish loading/unloading, auto-stop at maximum height, and horizontal auto-stop.

Mast

| | Mast type | 2.0-2.5 ton | | | | | | 3.0 ton | | |
|---------------------|-----------|-------------|-----------|---------|-------------|-----------|---------|----------|-----------|---------|
| | | 8FBR20-25X | | | 8FBR20-25LX | | | 8FBR30X | | |
| | | standard | semi-free | triplex | standard | semi-free | triplex | standard | semi-free | triplex |
| Max. lifting height | 2,500 | ○ | ○ | | | | | ○ | ○ | |
| | 2,700 | ○ | ○ | | | | | ○ | ○ | |
| | 3,000 | ● | ○ | | | | | ● | ○ | |
| | 3,300 | ○ | ○ | | | | | ○ | ○ | |
| | 3,500 | ○ | ○ | | | | | ○ | ○ | |
| | 3,700 | ○ | ○ | | | | | ○ | ○ | |
| | 3,800 | | | ○ | | | | | | ○ |
| | 4,000 | ○ | ○ | ○ | ● | ○ | ○ | ○ | ○ | ○ |
| | 4,300 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 4,500 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5,000 | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ | ○ |
| | 5,300 | | | ○ | | | ○ | | | ○ |
| | 5,600 | | | ○ | | | ○ | | | ○ |
| | 5,700 | | | | | | | | | ○ |
| | 6,000 | | | | | | ○ | | | ○ |
| | *~8,000 | | | ○ | | | ○ | | | ○ |

*Special order will be needed for the product with the mast lifting over 6,000 (6,500/7,000/7,500/8,000), please feel free to contact us for detailed information.

Safety

► Standardized travel & load interlock device is mounted

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.



The display screen as the interlock is functioning (inset photo is a full-function display)

