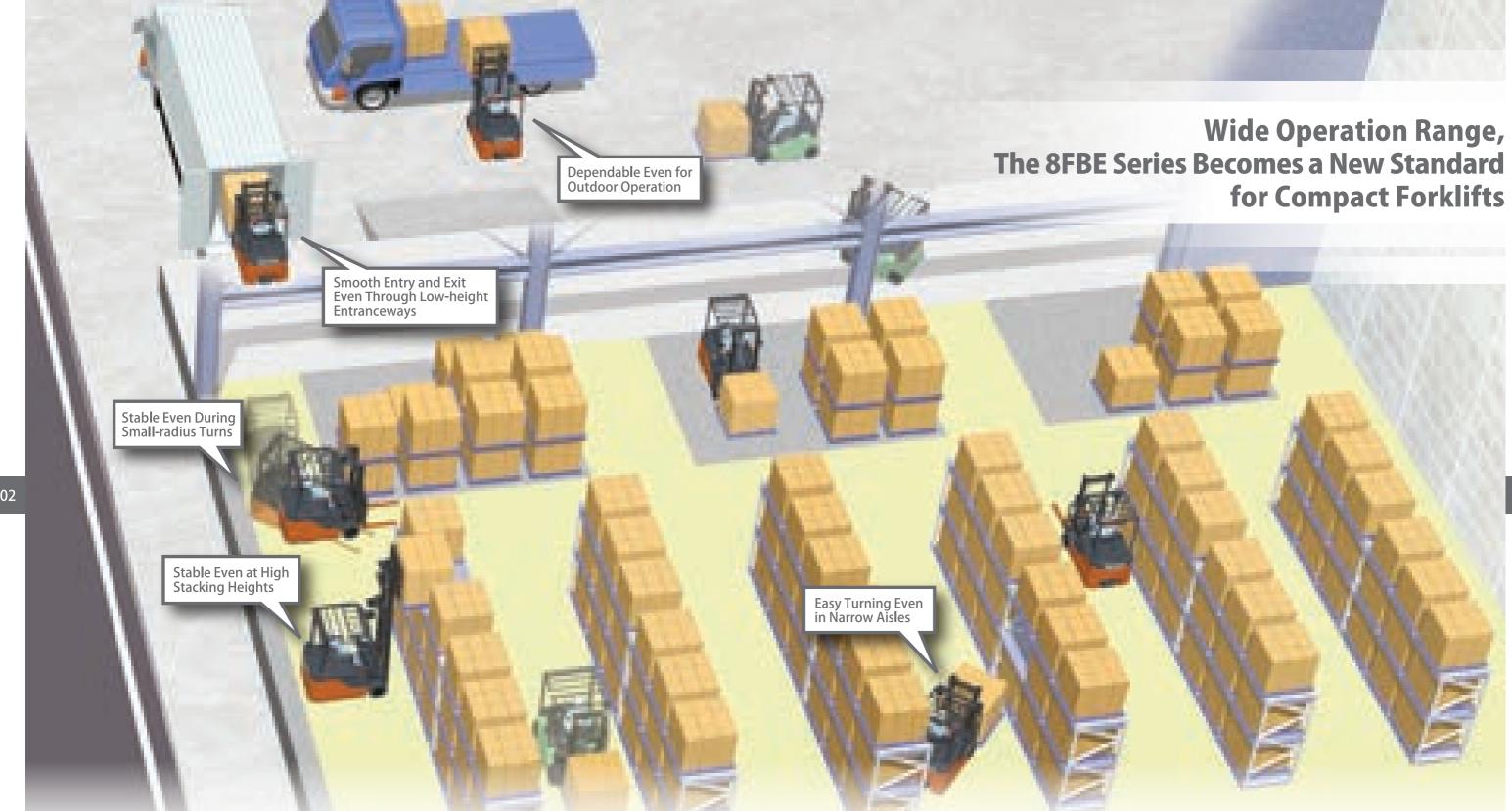
# 8FBE SERIES





## 8FBE SERIES

ELECTRIC POWERED FORKLIFT 1.0 to 2.0 TON

## **Features of the 8FBE Series**











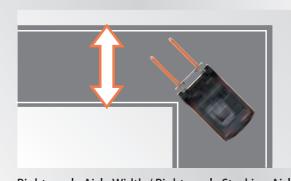
Depending on steering angle, the system controls the motor output

Model	Minimum Turning Radius				
8FBE10	1,385mm				
8FBE13	1,400mm				
8FBE15	1,515mm(1,770mm)				
8FBE18	1,550mm (1,780mm)				
8FBE20	1,675mm (1,980mm)				

\*( ) is 8FBN Series



for easier operations in narrow aisles.



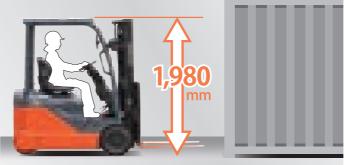
#### Right-angle Aisle Width / Right-angle Stacking Aisle Width

The small turning radius achieved through the compact body and 3-wheel configuration makes possible a effective use of working space.

Model	Right-angle Aisle Width	Right-angle Stacking Aisle Width		
8FBE10	1,580mm	1,730mm		
8FBE13	1,600mm	1,750mm		
8FBE15	1,680mm (1,800mm)	1,865mm (2,175mm)		
8FBE18	1,695mm (1,815mm)	1,900mm (2,185mm)		
8FBE20	1,790mm (1,895mm)	2,040mm (2,410mm)		

\*( ) is 8FBN Series





#### Low-height Headquard

The overall height on all models is a low 1,980 mm, making it possible to enter and exit containers or low-height entranceways with ease and comfort.

Model	Overhead Guard Height					
8FBE10	1,980mm					
8FBE13	1,980mm					
8FBE15	1,980mm (2,085mm)					
8FBE18	1,980mm (2,095mm)					
8FBE20	1,980mm (2,085mm)					
		*( ) is RERN Series				

## **Compact Body and Turning Performance, Suitable Even in Narrow Worksites**

The compact body and turning performance all add up to superior operability in narrow worksites. This, together with great stability, makes for powerful support for material handling in a diverse range of applications.

#### **For Accurate Traveling Operations**





#### Direction Indicator / Wheel Indicator

These indicators on the Multifunction Display show the direction of travel before truck starts moving, therefore reducing the risk of damage to the goods and/or collision caused by operation mistake.

#### Stable Travel, Turning and Load Handling



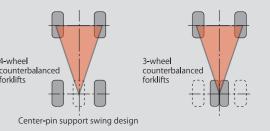
#### **Double Rear Tires**

Double rear tires achieve stability during travel and turning as well as greater rated load capacity at high mast heights.

#### The Same Lateral Stability As 4-wheel Forklifts









## **Longer Operating Time**

## **Contributing to Better Work Efficiency**



New motors and drivers have been adopted in aims of improving operating time. This achieves operating time of 20% longer, contributing to a further enhancement of work efficiency.

### **Best-in-class Energy Efficiency**

#### High-efficiency New Motors and Motor-drivers

Newly developed motors and motor-drivers minimize energy loss, and minimized heat generation greatly reduces energy consumption. This increases the operating time by 20%.

Energy Consumption (VDI 60 sec Cycle)

7 h. 16 min.

**8FBE Series** 

Comparison of operating times for 1.5-ton model with the same battery capacity measured by Toyota operating cycle test. Assumed that the forklift is actually operated i 55% of total working hours (100% discharge

#### **Low Energy Consumption**

Model	Energy Consumption
8FBE10	3.4 kWh/h
8FBE13	3.5 kWh/h
8FBE15	3.8 kWh/h
8FBE18	4.1 kWh/h
8FBE20	4.3 kWh/h

eatures and equipment may vary depending on market.

## **Keeping High Performance**

Accelerator-release Regeneration

collects energy in the battery. It also helps

When the accelerator is released, this

achieve smoother deceleration.

#### Power-keep Function

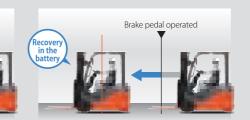
This feature keeps load-handling and travel performance as the battery charge gets low, allowing continuing efficient operation. Note: Not available in the H mode

#### **Preventing Useless Power** Consumption

#### Auto Power-off Function

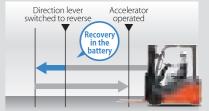
This feature supports energy savings by automatically switching off the power after the operator leaves the forklift for a specific period

#### Regenerative Systems for Efficient Energy Recovery



#### **Brake Regeneration**

When the brake is activated, the energy is recovered in the battery. This also helps to extend brake life.



#### Switchback Regeneration

During switchback, the energy is recovered in the battery. This also contributes to smooth and quick switchback operation.

**Selecting the Optimal** 

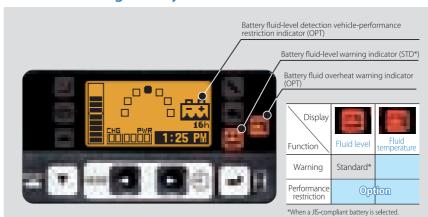
#### **Power-select Function**

Power Level

Both travel and load-handling performance can be customized.\* This provides an optimal balance of performance and operating time.

\* The picture shows the selection screen for the multifunction display (option). With the standard display, you can select from among three power modes (S, P and H).

#### Feature for Long Battery Life



#### **NEW** Battery Protecting Function **OPT**

When the battery fluid level is low or the fluid temperature is high, this informs the operator by an indicator and an audible warning, and also restricts travel performance. This helps prevent degradation of the battery and ensure a long life for the battery.

#### **Long Lasting LED Lights**



#### **LED Rear Combination Lights**

LED Rear Combination Lights are equipped as standard, providing longer life time and reducing the hassle of frequent changing of light bulbs.

## **Easy Battery Exchanging**



#### NEW Battery Side-out OPT

The battery with fork pockets can be taken out from the right side of the truck by using a forklift. In addition to 390Ah battery, the option is now available for 565Ah battery and Single Overall Electrolyte Filler Ports option. (Available for 8FBE15, 18, 20)



Battery Roll-out OPT

Exchange of the battery can be accomplished by extracting the battery by sliding it out.

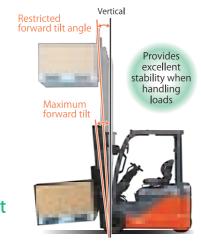


## **Support for**

## **Safe** Operations

#### SAS (System of Active Stability) - & @

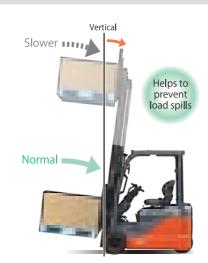




#### **Helping to Prevent** Load Spills

#### **Active Mast Front-tilt Angle Control**

The angle of forward mast tilt is automatically controlled in accordance with the lift height and load weight, helping to prevent dropped loads or tip-over.



#### **Active Mast Tilt Speed Control**

Automatic control of mast tilt speed at high mast heights helps to prevent load spills.



#### **Smooth Operation**

#### Automatic Fork-leveling Control

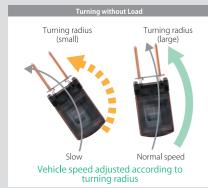
Pressing a switch during forward tilt automatically stops the forks at a level position. This makes load-handling operations easier, helping to achieve high productivity.

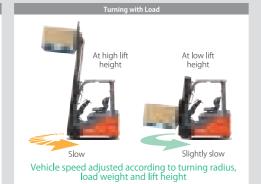


#### **Active Steering Synchronizer**

This feature ensures that the angle of the steering wheel corresponds to the angle of the rear steered wheels.

#### **Stable Travel**





#### Automatic Vehicle-speed Control

This controls vehicle speed as well as acceleration and deceleration according to lift height and load weight, helping to ensure stable travel and prevent load spills.

#### Automatic Turn-speed Control

This controls turn speed according to the lift height, load weight, and turning radius, providing stable turning matched to the state of operation.



With SAS-& and outstanding visibility, the New 8FBE Series supports safe operations. It also contributes to enhanced efficiency.

#### Help Interrupt Unanticipated Load-handling and Traveling



#### **Operator Presence Sensing** System (OPS)

parking brake before leaving the forklift.

If the operator is not in the normal operating position, travel power is interrupted and load-handling operations are stopped. Note: OPS does not operate the brakes. Always set the



#### **NEW Emergency Power Shut-down Button**

In the event of an emergency, pressing this button switches off all power sources. A simple twist release allows the truck to restart.

#### **Outstanding Visibility**



#### **Upward Visibility** A lattice-designed overhead guard provides good upward visibility.

#### **Forward Visibility** Optimal mast width and hose layout ensure a clear

#### Visibility of Fork-tip Equipped with a small-diameter steering

wheel, optimally positioned display, and an angled lower stay of load backrest for exce**ll**ent visibility of the fork tips.







Rear-pillar Assist Grip

This assist grip with horn button enhances reverse travel comfort and offers easy horn operation while travelling in reverse.

Features and equipment

## In Comfort – Ergonomically More

## **Pleasing and Enjoyable**



The operator friendly features of the 8FBE series provide you with comfortable and smooth operation.



#### **Outstanding Operability and Comfort**



Small-diameter Steering Wheel The small-diameter steering wheel with the full hydraulic power steering system provides excellent maneuverability.



ORS Seat \*ORS: Operator Restraint System The ORS seat can be adjusted 150 mm forward and backward and supports a comfortable operating posture by means of side wings and a seat belt.

## **Smooth Start Off on Slopes**



Anti-rollback

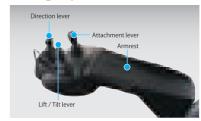
When the accelerator or brake pedal is released while stopped on a grade, the forklift stops and then descends at a constant speed. This helps to ensure smooth operations on slopes.

#### **Smooth Load Handling and Traveling Operation**



**NEW** Mini Lever **OPT** 

The Mini Lever allows smooth operation. The design featuring an armrest also helps to reduce the operator's fatigue.



NEW Joystick OPT

This makes it possible to perform lift and tilt simultaneously.



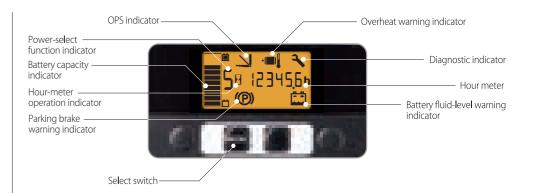
NEW EZ Pedal OPT

This accelerator pedal can be used to change the direction of travel by pressing the left side for forward travel and the right side for reversing.

#### High-visibility Display

#### Standard Display

The indicators and warning lights keeps the operator informed of the forklift's status at a glance.



#### Multifunction Display OPT

The Multifunction Display offers useful information for operators and managers.











Main Display Screens

12345.6 h







Load Weight Indicator OPT

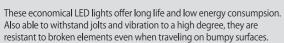
## **Best Partner**

## for Operators As Well As Managers

#### **Robust Body Design**

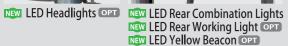


#### **Energy Savings, Long Life LED Lights**









#### High Water Resistance (IPX4)



#### For Comfortable Operation in the Sun



#### **For Safe Worksites**



#### NEW Blue Light OPT

A blue beam of light appears on the ground to inform pedestrians of the forklift's presence, and helps prevent accidents.

#### **Encouraging Careful Operation**



#### Shock Sensor OPT

This detects collision impact on the forklift and warns by visual indicator and sound. (Warnings can be cleared only by a manager.) This helps to prevent overly harsh operation and helps reduce maintenance costs.



#### **Help for Management**

#### PIN\*-code Entry System OPT

A code must be entered to start the forklift, preventing use by unauthorized persons. The vehicle settings can be registered, allowing preferred settings for different operators. This also provides keyless operation. \*Personal Identification Number

#### MAIN EQUIPMENT AND OPTIONS

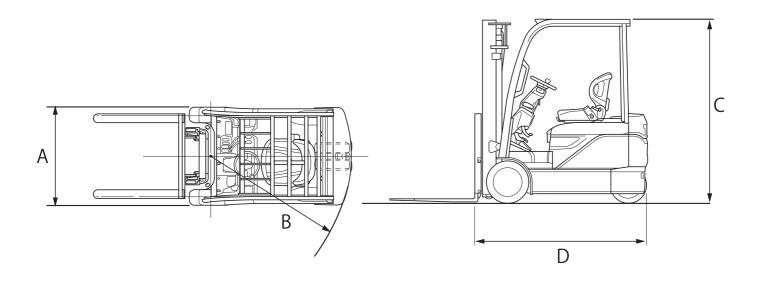
	ITEM	8FBE10	8FBE13	8FBE15	8FBE18	8FBE20
	SAS (System of Active Stability) -ε	•	•	•	•	•
	Active Steering Synchronizer	•	•	•	•	•
	Emergency Power Shut-Down Button	0	0	0	0	0
	Rear-View Mirrors, Right and Left Sides	•	•	•	•	•
	Orange Seatbelt	•	•	•	•	•
	Seatbelt Interlock System  LED Headlights	•	•	•	•	•
	Front Combination Lights	•	•	•	•	•
	LED Rear Combination Lights	0	0	0	0	0
Safety &	LED Rear Working Light	•	•	•	•	•
Stability	Yellow Beacon	•	•	•	•	•
	LED Yellow Beacon	•	•	•	•	•
	Blue Light	•	•	•	•	•
	Forward & Back-Up Chime	•	•	•	•	•
	Back-Up Chime	•	•	•	•	•
	Back-Up Buzzer	•	•	•	•	•
	Adjustable-Volume Back-Up Buzzer	•	•	•	•	•
	Forward Chime	•	•	•	•	•
	Clamp Release Interlock 3rd Lever	•	•	•	•	•
	Clamp Release Interlock 4th Lever	•	•	•	•	•
	Battery(Wet Cell)	•	•	•	•	•
	Battery Charger (On-Truck Type)	•	•	•	•	•
	Battery Charger (Off-Truck Type)	•	•	•	•	•
Datta	Single Overall Electrolyte Filler Ports	•	•	•	•	•
Battery	Battery Protecting Function	•	•	•	•	•
	Battery Side-Out	-	-	•	•	•
	Battery Roll-Out Battery Carrier	-	<u> </u>	•	•	•
	12V Power Supply	-	•	•	•	-
	Steering Wheel With Knob	0	0	0	0	
	Suspension Seat w/Damper	•	•	•	•	•
	Overhead Guard Sheet	•	•	•	•	•
	Resin Roof	•	•	•	•	•
	Resin Roof (Gray-colored)	•	•	•	•	•
	Front Windshield w/Wiper & Washer	•	•	•	•	•
perability &	Rear-Pillar Assist Grip	•	•	•	•	•
Comfort	EZ Pedal	•	•	•	•	•
	Mini-Lever	•	•	•	•	•
	Joystick	•	•	•	•	•
	Armrest Horn	•	•	•	•	•
	Cup Holder	•	•	•	•	•
	Pencil and Tape Holder	•	•	•	•	•
	Multifunction Display	•	•	•	•	•
	Deluxe Multifunction Display	•	•	•	•	•
Service &	Key-Less Ignition Switch	•	•	•	•	•
anagement	PIN Code Enrty System	•	•	•	•	•
	Shock Sensor	•	•	•	•	•
	Tilt Cylinder Boots	•	•	•	•	•
	Rib-Lug Tire, Front	0	0	0	0	
	J-Lug Tire, Front	•	•	•	•	-
	J-Lug Non-Punk Tire, Front	•	•	•	•	•
Tires	U-Lug Non-Punk Tire, Front	•	•	•	•	0
	Rib-Lug Tire, Rear	•	•	•	•	•
	J-Lug Tire, Rear  J-Lug Non-Punk Tire, Rear	•	•	•	•	•
	U-Lug Non-Punk Tire, Rear	•	•	•	•	•
	Wide Visible Mast (V)	0	0	0	0	
	Full-Free Lift Three-Stage Mast (FSV)	•	•	•	•	•
	Full-Free Lift Two-Stage Mast (FV)	•	•	•	•	-
Load	Fully Oil Charged Lift Cylinder	•	•	•	•	•
landling	High Load Backrest (Flat Steel Type)	•	•	•	•	
9	High Load Backrest (Angle Shape Type)	•	•	•	•	•
	Mast Tilt Indicator	•	•	•	•	•
	Sleeved Forks	•	•	•	•	•
	Cold-Storage Model (Type 45S)	•	•	•	•	•
	Rust-Proof Model	•	•	•	•	•
cial Edition	Rust-Proof Model (Fisherman Special)	•	•	•	•	•
	Body Color (602 Green)	•	•	•	•	•

#### MAIN SPECIFICATIONS

Model			8FBE10	8FBE13	8FBE15	8FBE18	8FBE20
Load Capacity		kg	1000	1250	1500	1750	2000
Load Center		mm	500	500	500	500	500
Overall Width	Α	mm	1075	1075	1075	1075	1075
Turning Radius (outside)	В	mm	1385	1400	1515	1550	1675
Overhead Guard Height	С	mm	1980	1980	1980	1980	1980
Length to Fork Face	D	mm	1750	1755	1875	1905	2045

#### **BATTERY AND MOTOR SPECIFICATIONS**

Model			8FBE10	8FBE13	8FBE15	8FBE18	8FBE20
Voltage/Capacity	Min.	V/Ah	48/280	48/280	48/390	48/390	48/390
(5-hour ratings)	Max.	V/Ah	48/370	48/370	48/565	48/565	48/645
Electric Motors	Drive	kW	4.9×2	4.9×2	4.9×2	4.9×2	4.9×2
LIECTIC MOTORS	Load Handling	kW	9.2	9.2	9.2	9.2	9.2
Energy Consumption (VDI Cycle) kWh/			3.4	3.5	3.8	4.1	4.3



The data in this brochure was determined based on our standard testing condition. Operating performance may vary depending on the actual specifications and condition of the vehicle, as well as the The data in this procedure was determined based on our standard testing conditions. Operating perrormance may vary depending on the actual specifications and condition of the vent conditions of the operating area.

Due to photography and printing, color of actual vehicle may vary from this brochure. Some photos have been computer-enhanced.

Availability and specifications are determined by market and are subject to change without notice.

Safe forklift operation is achieved by proper operator training and proper worksite rules. Please consult your Toyota representative regarding forklift selection and operator training. Please consult your Toyota representative for details.

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