KOMATSU®

FB25-12 FB30-12



Photos may include optional equipment.

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WALK-AROUND

CAPACITY 2500 - 3000 kg

The water-resistant, dustproof and energy-saving electric forklift truck that fulfills customer's needs for wider range of job sites.

Economy & Ecology

- Max. 20% energy-saving contributes to extended operating hours (FB25-12)
- Highly efficient PM (permanent magnet) motor
- A brand-new control system that reduces power consumption
- Optimized truck balance

See page 4.

Safety & Reliability

- Water-resistant, dustproof motor and controller
- Sealed connectors
- Wider tread contributes to greater stability
- Longer wheelbase contributes to superb travel comfort
- Traveling/lifting Operator Presence Sensing system
- Parking brake with indicator lamp

See page 5.



Comfort & Operation

- Optimum performance setups
- Overspeed alarm
- A large assist grip and wide step for easy access
- Fully hydrostatic power steering for excellent maneuverability
- Plastic overhead guard cover provides operator comfort in the rain
- Ample overhead clearance
- ID key enables identification of the operating record (optional)
- Rear assist grip with horn button supports easy reverse traveling (optional)

See pages 6 and 7.

ICT (Information & Communication Technology)

Large color monitor provides the truck status at a glance

See page 8.



ECONOMY AND ECOLOGY

Max. 20% energy-saving contributes to extended operating hours (FB25-12)

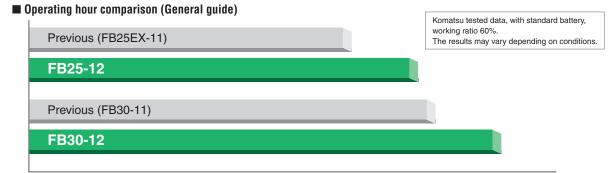
Application of a highly efficient PM motor, optimized truck balance, and new control system have resulted in up to a 20% reduction* in power consumption and extended operating hours.

■ Electric power consumption

Up to 20% energy-saving

[Up to 15% energy-saving for FB30-12]

*Komatsu tested data comparing the FB25-12 and FB25EX-11, and FB30-12 and FB30-11. The results may vary depending on conditions



Highly Efficient PM (Permanent Magnet) Motor

The Komatsu FB25/30-12 features a highly efficient PM motor, an AC synchronous motor which uses permanent magnets in the rotor, to power both drive and pump motors. With its low electrical loss characteristics, low energy consumption contributes to longer

Sealed, highly efficient PM motor



A Brand-new Control System that Reduces Power Consumption

The FB25/30-12 features a torque-control system that reduces power consumption at peak motor loads. The control system helps to provide longer operating hours by reducing electrical loss and making efficient use of energy during acceleration.

Optimized Truck Balance

The battery is located at the rear end of the truck. The truck balance is optimized, and it is contributing to extended operating hours.



(Hours)



SAFETY AND RELIABILITY

Excellent reliability and enhanced stability, optimum for outdoor usages or on dusty job sites

Water-resistant, Dustproof Motor and Controller

The FB25/30-12 employs sealed motors and a new cooling system that does not allow direct intake of ambient air to the controllers and other electrical components. Together with waterproof connectors and covers, both waterproofing and dustproofing features have been improved. The FB25/30-12 meets the IPx4 waterproof standard. The improved dustproofing and waterproofing features realize excellent reliability even in wet weather when washing the truck using hose water, or on dusty job sites.

*Follow the instructions in the operation & maintenance manual when washing the truck.

Meet with IPx4 Waterproof Standard



The IP code or International Protection Rating classifies and rates the degree of protection provided against the intrusion of solid objects and water. IPx4 is protection against splashing water from all directions, therefore, the FB25/30-12 is protected against water splash from underneath chassis or hose water when washing the truck

IP C	ode	Protection against	Testing for	
IP:	x4		Water splashing against the enclosure from any direction shall have no harmful effect.	FB25/30-12
IP:	хЗ	Spraying water	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.	Previous



Sealed Connectors

Major electrical harnesses and controllers in the FB25/30-12

employ the sealed connectors. they are also used in Komatsu construction machinery, for superior waterproofing and dustproofing ability.



Wider Tread Contributes to Greater Stability

The wider tread of the FB25-12 provides greater stability when handling a load.

FB25-12

Load capacity at 5.0 m lift height, 1900 kg (Previous 1800 kg)

5.0 m 2-stage free view mast, standard fork, single tire, load center 500 mm



Longer Wheelbase Contributes to Superb Travel

The longer wheelbase provides greater longitudinal stability and reduced pitching, which enhances travel comfort.

Wheelbase 1550 mm



Traveling/lifting Operator Presence Sensing System

The traveling/lifting Operator Presence Sensing system allows traveling or lifting only when the operator is seated. It

provides a double safety measure by requiring the operator to sit securely and return the directional lever to the neutral position before traveling.

*The traveling interlocking function cuts off power transmis but does not serve to apply the brake

 The interlock state is also indicated on the color monitor.

Parking Brake with Indicator Lamp

When the operator leaves from the truck without setting the

parking brake, an indicator lamp flashes and buzzer sounds intermittently. The buzzer also sounds if the operator presses the accelerator pedal while the parking brake is engaged, thereby protecting against excessive brake wear.



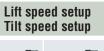
COMFORT AND OPERATION

Optimum performance setups

Functions such as traveling, lifting and tilting speeds can be adjusted according to individual needs. These adjustments can be easily made using the color monitor screen. With optimum performance setups, operations can be individually optimized, making operations smoother and more comfortable.









10 steps Lift/Tilt speed setup*





Plugging

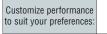
regeneration setup

ON/OFF 10 steps Switchback distance setup Downslope travel setup





10 steps Accelerator neutral regeneration setup



ES volume setup (8 steps)* ■Soft start characteristic setup (3 steps)

■Accelerator characteristic setup (3 steps) Attachment speed setup (10 steps)

■Travel speed limit setup (1 km/h increments)

Please request your Komatsu Sales and Service Representative to perform customization setups

■ Comfort Setup

Set the Travel power and Lift/Tilt speeds lower for less stable load handling or operations in cramped work places. The operator can carry out the job with ease.

Overspeed Alarm

The FB25/30-12 is equipped with an overspeed alarm, which sounds when the operator exceeds the specified speed limit. This setting may be adjusted in 1 km/h increments, and can be made using the color monitor screen.

A Large Assist Grip and Wide Step for Easy **Access**

The large assist grip, combined with a wide floor and step, leads to a roomy entrance to make it easy for an operator to get on and off.





■ Powerful Setup

Set the Travel power and Lift/Tilt speeds higher for high-cycle operations. The truck will produce its maximum performance.

Fully Hydrostatic Power Steering for Excellent Maneuverability

The FB25/30-12 features a small-diameter steering wheel with an ergonomically optimized design. The fully hydrostatic

power steering mechanism provides excellent maneuverability in the switchback operations. The steering knob synchronizer function is also included as a standard feature.



Plastic Overhead Guard Cover Provides Operator Comfort in The Rain

A plastic overhead guard cover is equipped as standard to provide operator comfort in the rain.



Ample Overhead Clearance

Overhead clearance is ample for operators wearing a helmet. This enhances comfort operator work place.



ID Key Enables Identification of The Operating Record (optional)

ID key is available as an option to enable individual tracking of operation. Since the truck can only be operated using a registered ID key, it also serves as an effective means of theft prevention.

Rear Assist Grip with Horn Button Supports Easy **Reverse Traveling (optional)**

Grasping the rear assist grip helps to stabilize the operator's posture while traveling in reverse. And the horn switch on the grip enables the operator to use the horn easily.



ICT (Information & Communication Technology)

Large color monitor provides the truck status at a glance

The large, user-friendly color monitor enables accurate and smooth operation. Checking the truck speed, battery discharge, and other essential information is easy and at a glance. Function keys facilitate easy setup of travel or lifting modes and travel speed limit.

- 1 Hour meter (SMR) integration state
- 2 Parking brake indication
- 3 Load handling interlock indication
- 4 Travel interlock indication
- 5 Load handling power mode
- 6 Travel power mode
- 7 Clock / Hour meter (SMR) / Travel distance (Odometer) indication / Caution symbol
- 8 Travel speed
- 9 Directional lever position / Action level monitor
- 10 Battery discharge indicator (BDI)
- 11 Average power consumption *
- 12 Instantaneous power consumption (ECO gauge) *
- 13 Guidance icon
- 14 Function button
- *Available on truck with KOMTRAX



Press the function button to check a wide range of information.

- Hour meter (SMR)
- Traveling hours
- Load handling hours
- Actual working hours Actual working hours ratio
- Electric power last charging
- Electric power accumulated
- CO₂ emission accumulated

Average Power Consumption /

(Available on truck with KOMTRAX)

consumption for that day.

Instantaneous Power Consumption (ECO gauge)

Power consumption indication shows average electric power

Instantaneous power consumption (ECO gauge) shows

average electric power consumption for the last three

seconds to guide for energy saving operation.

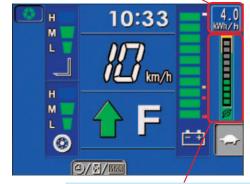
■ Consumed Electric Power Record

(Available on truck with KOMTRAX)

You can check the electric power consumption for either the last 12 hours or the last 7 days of operation.



Power consumption indication



Instantaneous power consumption (ECO gauge)

KOMTRAX

Komatsu Machine Tracking System

KOMTRAX* sends machine information via mobile phone network and stores them in a Komatsu server. It allows you to analyze the machine utilization, grasp the power consumption, schedule the maintenance, and more, KOMTRAX helps you to keep your machine operating at a peak performance and reduces your operating costs.

* KOMTRAX is available for limited countries and regions. Please check with Komatsu representatives for availability of KOMTRAX



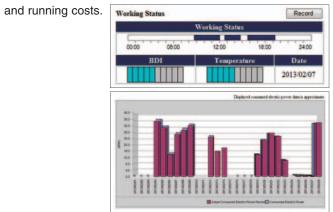




*KOMTRAX is using the mobile phone network. It may be able to be used at the place where an electric wave does not reach, or at the weak place of an electric wave

■ Machine Operation Information

Grasping details of machine operation information on a daily basis makes it possible to understand power consumptions



Operation Report

Monthly and annual operation records provided by KOMTRAX are useful information for the customer.



■ Machine Location Information

Grasping machine location information allows machine operation management.



SPECIFICATIONS AND EQUIPMENT

SPECIFICATIONS

	1.2	Model	Manufac	cturer's Designation			FB25-12	FB30-12
	1.3	Power Type		Diesel, Gasoline, LPG,	Cable		Electric	Electric
Characteristics	1.4	Operation Type	Pedestrian	, Driver standing, Sitting, Orde	r picking		Sitting	Sitting
	1.5	Rated Capacity	Q	Rated Capacity		kg	2500	3000
	1.6	Load Center	С	Rated Load Center		mm	500	500
	1.6.1	Alternative Capacity	Q2	Capacity @600mm Load Center		kg	2260	2720
	1.8	Load Distance	Х	Front Axle Center to Fork Face		mm	450	490
	1.9	Wheelbase	V			mm	1550	1650
Weight	2.1	Service Weight		Min. Capacity Battery, See	line 6.5	kg	3800	4660
	2.2			Front		kg	5585	6780
	2.2.1	_	Loaded	Loaded Rear		kg	715	880
	2.3	Axle Loading				kg	1520	1935
	2.3.1			Unloaded Rear		kg	2280	2725
	3.1	Tire Type	Cushion F	Cushion, Elastic Cushion, Pneumatic, Polyurethane		9	Pneumatic	Pneumatic
	3.2	Tire Size		actio odomon, i nodmato, i or	dictions		23 x 9-10-16PR	28 x 9-15-14PR
S	3.3			Front Rear			18 x 7-8-16PR	21 x 8-9-10PR
Tires	3.5	Number of Wheel		Front/Rear (x=driven)			2x/2	2x/2
	3.6	Tread, Front	b10	Jul (X=ulivoli)	ii (X=diiveii)		975	1005
	3.7	Tread, Rear	b11			mm	960	980
	4.1	Tilting Angle	α/β	Forward/Backward		degree	6/11	6/11
	4.2	Mast Height, Lowered	α/β h1	2-stage Mast		mm	1995	2065
	4.2	Std. Free Lift	h2	2-stage Std. Mast, fro	m Ground	mm	155	160
	4.4	Std. Lift Height	h3	2-stage Std. Mast, fro		mm	3000	3000
Dimensions	4.4	Mast Height, Extended	h4	2-stage Std. Mast	iii Ground	mm	4050	4270
	4.7	Height, Overhead Guard	h6	Z-Stage Stu. Mast		mm	2155	2215
	4.19	-				mm	***	3710
		Length, with Std. Forks	L1 L2				3515	2640
	4.20	Length, to Fork Face		0:1-		mm	2445	
nen	4.21	Width, at Tire	b1		Single		1200	1235
Εİ	4.22	Forks	s/e/l	Thickness x Width x Length		mm	40 x 122 x 1070	45 x 122 x 1070
	4.23	Fork Carriage Class		3, Type A/B/no			class2, A	class3, A
	4.24	Width, Fork Carriage	b3			mm	1020	1060
	4.31	Ground Clearance	m1	Under Mast		mm	115	140
	4.32			m2 at Center of Wheelbase		mm	110	145
	4.33	Aisle Width *		Ast with L1000 x W1200 pallet		mm	3840	4060
	4.34	1	Ast	with L1200 x W800 p	allet	mm	3970	4190
	4.35	Turning Radius	Wa			mm km/h	2120	2300
	5.1	Travel Speed (FWD)		Loaded			14.0	13.5
				Unloaded			16.0	15.5
	5.2	Lifting Speed		Loaded			260	330
9		3 - 1		Unloaded			550	550
Jano	5.3	Lowering Speed		Loaded			500	420
form			Unloaded			mm/s N	540	450
Performance	5.6	Max. Drawbar Pull		Loaded 1.5 km/h, 3 min rating			10900	13200
	5.8	Max. Gradeability		Loaded 1.5 km/h, 3 min rating			16	18
	5.10	Service Brake		Operation/Type			Foot/Hydraulic	Foot/Hydraulic
	5.11	Parking Brake		on/Control			Hand/Mechanical	Hand/Mechanical
	5.12	Steering	Туре				FHPS	FHPS
Drive	6.1	Drive Motor		60 min. rating			9.6	12.0
	6.2	Pump Motor		5 min. rating			10.3	13.2
	6.2.1	PS Motor	60 min.	60 min. rating			-	-
	6.4	Battery Voltage					72	72
	6.4.1	Battery Capacity, Min					360	450
	6.4.2	Battery Capacity, Max					470	545
	6.5	Battery Weight	Min.Cap	Min.Capacity Battery, See line 6.4.1			1085	1145
(A	8.1	Drive Motor Control				kg	AC, MOSFET inverter	AC, MOSFET inverter
Others	8.2	Relief Pressure for Attachment				Mpa	18.1	18.1
ō	8.2.1	Hydraulic Tank Capacity				Ĺ	25	26
		des 200 mm clearance						

^{*:} VDI 2198 includes 200 mm clearance

MAXIMUM LOAD AND OVERALL HEIGHT OF MAST BY LIFTING HEIGHT

■ 2-stage free view mast (Single tire, load center 500 mm)

Maximum fork height		apacity g)	Overall height (mm) [Lowered / Extended]		
(mm) model	FB25-12	FB30-12	FB25-12	FB30-12	
3000	2500	3000	1995/4050	2065/4270	
3300	2500	3000	2145/4350	2215/4570	
3500	2500	3000	2245/4550	2315/4770	
4000	2500	3000	2545/5050	2615/5270	
4500	2300	2700	2795/5550	2865/5770	
5000	1900	2200	3095/6050	3165/6270	

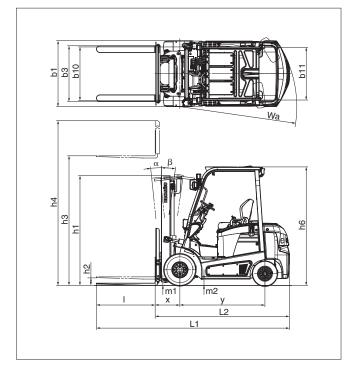
■ 3-stage full free view mast (Single tire, load center 500 mm)

Load capacity Overall height (mm) fork height [Lowered / Extended] mm) model FB25-12 FB30-12 FB25-12 FB30-12 4000 2400 2950 1895/5080 1965/5300 2300 2850 1995/5380 2065/5600 4300 2050 2700 2070/5580 2140/5800 4500 4700 2050 2500 2145/5780 2215/6000 5000 1650 2200 2245/6080 2315/6300 1250 1500 2445/6580 2515/6800 5500 950 1100 2645/7080 2715/7300

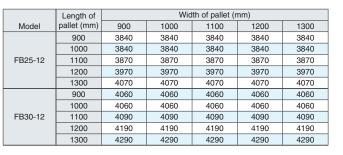
■ 2-stage full free view mast (Single tire, load center 500 mm)

(- 3	-,		,		
Maximum fork height		apacity g)	Overall height (mm) [Lowered / Extended]		
(mm) mode	FB25-12	FB30-12	FB25-12	FB30-12	
3000	2500	3000	1995/4050	2065/4270	

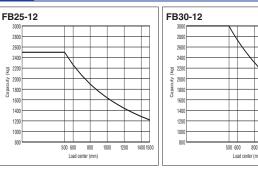
DIMENSIONS



AISLE WIDTH



LOAD CAPACITY CURVE



STANDARD EQUIPMENT

- Drive PM motor
- Pump PM motor
- Travel power setup ES volume setup
- Load Handling power setup
- Lift speed setup
- Tilt speed setup
- Travel/Brake/Load Handling characteristics
- Parking brake with release button
- Overhead guard with front / rear rain gutter
- Rear view mirror (center)
- Neutral start function
- Travel speed limiter (Tortoise) function

- Max. travel speed limit
- Overspeed alarm
- Operator presence sensing system
- Lift lock function Back-up buzzer
- Large color monitor
- Fully hydrostatic power steering
- Tiltable steering column
- Steering knob synchronizer function
- Standard directional lever
- Combination switch (turn signal lamp & headlamp switch)
- Standard brake pedal
- Floor mat

- Plastic overhead guard cover
- Halogen headlamps & rear combination lamps with bulbs
- Sealed connectors
- Flat face-to-face O-ring seals

Tire:

- Front single tire, pneumatic
- Rear tire, pneumatic

Fork:

• 1070 mm

OPTIONAL EQUIPMENT

- Canvas cab
- Front glass with wiper
- Seat heater
- Tilt cylinder boots

- Two front working lamps, fender mounted • One rear working lamp, overhead guard mounted
- LED flash beacon (yellow), overhead guard mounted
- Headlamps & rear combination lamps with LFD
- Two front working lamps with LED, fender mounted
- One rear working lamp with LED, overhead guard mounted

- Forward travel chime
- Forward/Backward travel chime
- Back up buzzer with volume adjust
- Rear view mirror (pair)
- Mast tilt gauge
- Rear assist grip with horn button
- Pressure regulator valve
- Battery sling jig

- Front single tire, elastic cushion
- Front double tire, pneumatic
- Front double tire, elastic cushion

- Fork:
- 920 mm • 1150 mm
- 1220 mm
- 1370 mm • 1520 mm
- 1670 mm
- 1820 mm
- 2000 mm • 2120 mm
- 2200 mm
- Side shifter
- Control valves for attachment
- Dust-proof specification

10