KOMATSU® **FB25**-12 **FB30**-12



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CAPACITY 2500 - 3000 kg



Photos may include optional equipment.

ELECTRIC FORKLIFT TRUCK

WALK-AROUND

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
- Well-sealed DT 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.



- the rain



KOMTRAX

• Komatsu machine tracking system See page 9.

ELECTRIC FORKLIFT TRUCK

FB25/30-12

CAPACITY 2500 - 3000 kg

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
- 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.



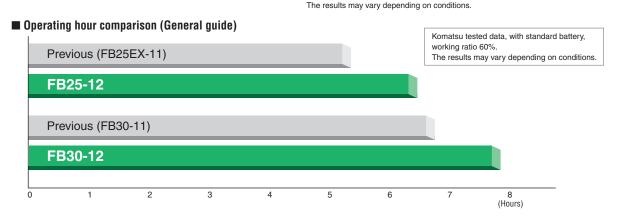
ECONOMY AND ECOLOGY

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.



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 operating hours.



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

operating hours.

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

> Location of batter COMAT'SU



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

IPx4

The IP code or International Protection Rating classifies and rates the degree of protecti 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 Code	Protection against	Testing for	
IPx4		Water splashing against the enclosure from any direction shall have no harmful effect.	FB25/30-12
IPx3		Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effect.	Previous



Well-sealed DT Connectors

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

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



ELECTRIC FORKLIFT TRUCK

FB25/30-12

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 Comfort

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



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 transmiss 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.



to suit your preferences: Soft start characteristic setup (3 steps) Attachment speed setup (10 steps)

Please request your Komatsu Sales and Service Representative to perform customization setups. Note: Items marked with an asterisk (*) may be adjusted by the operator

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.





FB25/30-12

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.

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
- Clock / Hour meter (SMR) /
- Travel distance (Odometer) indication / Caution symbol
- 8 Travel speed
- 9 Directional lever position / Action level monitor
- Battery discharge indicator (BDI)
- (1) Average power consumption *
- Instantaneous power consumption (ECO gauge) *
- 13 Guidance icon 4 Function button
- *Available on truck with KOMTRAX

Working Information Menu

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* can provide various machine information including location information, operation information and power consumption information to the customer. In addition, to offer "Ease" and "Dependability" to the customer, Komatsu supports our customers so that they can use their Komatsu machines in the best condition at all times by using KOMTRAX information and through its services network.

*KOMTRAX availability is subject to country or region.



GPS Satel

Machine Operation Information

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

and running costs. 2013/02/07

Machine Location Information

Grasping machine location information allows machine operation management.



ELECTRIC FORKLIFT TRUCK

FB25/30-12





*KOMTRAX is using the mobile phone network. It may be able to be used at the place where an electric wave does no reach, or at the weak place of an electric wave

Operation Report

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





SPECIFICATIONS AND EQUIPMENT

SPECIFICATIONS

	1.2	Model	Manufa	cturer's Designation			FB25-12	FB30-12
	1.3	Power Type		Electric, Diesel, Gasoline, LPG, Cable			Electric	Electric
		Operation Type	Pedestrian, Driver standing, Sitting, Order picking				Sitting	Sitting
rist	1.5	Rated Capacity	Q	Rated Capacity		kg	2500	3000
Understand		Load Center	C	Rated Load Center		mm	500	500
	L	Alternative Capacity	Q2	Capacity @600mm Load Center		kg	2260	2720
		Load Distance	X	Front Axle Center to Fork Face		mm	450	490
		Wheelbase	X			mm	1550	1650
		Service Weight		Including Min. Capacity Battery, See line 6.5		kg	3800	4660
2.2 2.2.1 2.3		monuting	Front		kg	5585	6780	
	-	Loaded		Rear	kg	715	880	
		Axle Loading		Front		kg	1520	1935
	2.3.1	_		Unloaded		kg	2280	2725
	3.1	Tire Tupe	Cuchion E	Cushion, Elastic Cushion, Pneumatic, Polyurethane		ĸy	Pneumatic	Pneumatic
	3.2	Tire Type	Front	idsuc custiloti, riteutilduc, roty	uremane		23 x 9-10-16PR	28 x 9-15-14PR
	-	3.3 Tire Size						
Tires	<u> </u>			Rear			18 x 7-8-16PR	21 x 8-9-10PR
-	3.5	Number of Wheel		ar (x=driven)		mm	2x/2	2x/2
	3.6	Tread, Front	b10				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	h1	2-stage Mast		mm	1995	2065
	4.3	Std. Free Lift	h2	2-stage Std. Mast, from Ground		mm	155	160
-	4.4	Std. Lift Height	h3	2-stage Std. Mast, from Ground		mm	3000	3000
	4.5	Mast Height, Extended	h4	2-stage Std. Mast		mm	4050	4270
	4.7	Height, Overhead Guard	h6			mm	2155	2215
0	4.19	Length, with Std. Forks	L1			mm	3515	3710
	4.20	Length, to Fork Face	L2			mm	2445	2640
Iens	4.21	Width, at Tire	b1	Single		mm	1200	1235
Dimensions	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	ISO 232	8, Type A/B/no			class2, A	class3, A
	4.24	Width, Fork Carriage	b3			mm	1020	1060
	4.31	Ground Clearance	m1			mm	115	140
	4.32			m2 at Center of Wheelbase			110	145
	4.33			Ast with L1000 x W1200 pallet		mm	3840	4060
	4.34			Ast with L1200 x W800 pallet		mm	3970	4190
	4.35	Turning Radius	Wa			mm	2120	2300
			Loaded	Loaded			14.0	13.5
	5.1	Travel Speed (FWD)		Unloaded			16.0	15.5
				Loaded			260	330
	5.2	Lifting Speed		Unloaded			550	550
nce		B Lowering Speed		Loaded		mm/s mm/s	500	420
rma	5.3			Unloaded			540	450
Pertormance	5.6	Max. Drawbar Pull		1.5 km/h, 3 min rating		mm/s N	10900	13200
ř	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		Operation/Control			Hand/Mechanical	Hand/Mechanical
	5.12	Steering	Type				FHPS	FHPS
	6.1	Drive Motor	60 min.	rating		kW	9.6	12.0
6.2 6.2.1 6.4	L	Pump Motor	5 min. r			kW	10.3	14.1
		PS Motor				kW	-	-
		Battery Voltage	00 11111.	60 min. rating		V	72	72
	6.4.1					Ah/5hr	360	450
	L	Battery Capacity, Min					470	450
	6.4.2	Battery Capacity, Max	Min O	anity Dattory Car line	4.1	Ah/5hr		
	6.5	Battery Weight	Min.Cap	acity Battery, See line 6	.4.1	kg	1085	1145
SIS	8.1	Drive Motor Control				Мра	AC, MOSFET inverter	AC, MOSFET inverter
Others	8.2	Relief Pressure for Attachment					18.1	18.1
	8.2.1	Hydraulic Tank Capacity					25	26

* : VDI 2198 includes 200 mm clearance

MAXIMUM LOAD AND OVERALL HEIGHT OF MAST BY LIFTING HEIGHT

2050

1250

(kg) mm) model FB25-12 FB30-12 FB25-12 FB30-12

Maximum

fork height

4000

4300

4500

4700

5000

5500 6000

2-stage free view mast

(Single tire, load center 500 mm)

(Olligic life, load center 500 min)							
Maximum fork height	Load c (k		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 2-stage full free view mast (Single tire, load center 500 mm)

[Lowered / Extended]

Load capacity Overall height (mm)

2400 2950 1895/5080 1965/5300

2300 2850 1995/5380 2065/5600

2050 2700 2070/5580 2140/5800

1650 2200 2245/6080 2315/6300

950 1100 2645/7080 2715/7300

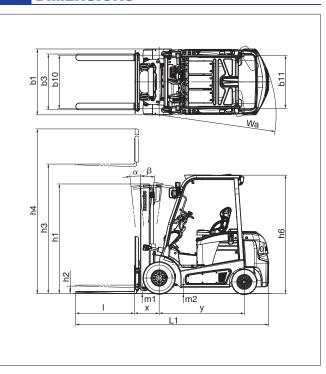
2500 2145/5780 2215/6000

1500 2445/6580 2515/6800

(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	

DIMENSIONS



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 setup
- Parking brake with release button
- Overhead guard with front / rear rain gutter • Rear view mirror (center)
- Neutral start function • Travel speed limiter (Tortoise) function

OPTIONAL EQUIPMENT

- Canvas cab
- Front glass with wiper
- Seat heater
- Tilt cylinder boots ID key
- 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 LED
- Two front working lamps with LED,
- fender mounted • One rear working lamp with LED, overhead guard mounted

- Forward travel chime
- Forward/Backward trave

Overspeed alarm

Lift lock function

Back-up buzzer

• Large color monitor

headlamp switch)

Floor mat

• Standard brake pedal

- Back up buzzer with vol
- Rear view mirror (pair)
- Mast tilt gauge

Battery sling jig

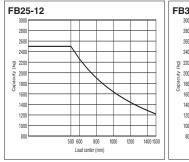
Tire:

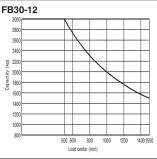
FB25/30-12

AISLE WIDTH

	Length of	Width of pallet (mm)					
Model	pallet (mm)	900	1000	1100	1200	1300	
	900	3840	3840	3840	3840	3840	
	1000	3840	3840	3840	3840	3840	
FB25-12	1100	3870	3870	3870	3870	3870	
	1200	3970	3970	3970	3970	3970	
	1300	4070	4070	4070	4070	4070	
	900	4060	4060	4060	4060	4060	
	1000	4060	4060	4060	4060	4060	
FB30-12	1100	4090	4090	4090	4090	4090	
	1200	4190	4190	4190	4190	4190	
	1300	4290	4290	4290	4290	4290	







• Max. travel speed limit

• Operator presence sensing system

- Plastic overhead guard cover
- Halogen headlamps & rear combination lamps with bulbs
- Sealed DT connectors
- Flat face-to-face O-ring seals
- Fully hydrostatic power steering
- Tiltable steering column
- Steering knob synchronizer function Standard directional lever
- Combination switch (turn signal lamp &

Tire:

- Front single tire, pneumatic
- Rear tire, pneumatic

Fork:

• 1070 mm

el chime	
olume adjust	

• Rear assist grip with horn button Pressure regulator valve

• 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