BinaPertiwi
member of ASTRA

RATED OUTPUT

FD200-7 Gross: 129 kW 173 HP / 2200 min^{-1}
Net: 122 kW 164 HP / 2200 min^{-1}

FD250-7 Gross: 165 kW 221 HP / 2200 min^{-1}
Net: 154 kW 207 HP / 2200 min^{-1}

CAPACITY

20000 - 25000 kg

FD200-7
FD250-7

KOMATSU

FD
250

Photos may include optional equipment.

DIESEL FORKLIFT TRUCKS

WALK-AROUND

Productivity

- High Performance Komatsu Engine
- Heavy Duty Brakes
- Automatic Transmission
- Large Fuel Tank
- Three Independent Hydraulic Circuits

See pages 4.

Serviceability & Reliability

- Excellent Serviceability
- Engineered for Reliability

See page 6.

Safety & Comfort

- Comfortable Cab Design
- Pillar-less Cab
- Operator Presence Sensing System

See page 5.

Information & Communication Technology

- Komatsu Machine Tracking System

See page 6.

FD200/250-7

RATED OUTPUT

FD200-7

Gross: 129 kW 173 HP / 2200 min^{-1}

Net: 122 kW 164 HP / 2200 min^{-1}

FD250-7

Gross: 165 kW 221 HP / 2200 min^{-1}

Net: 154 kW 207 HP / 2200 min^{-1}

CAPACITY

20000 - 25000 kg

PRODUCTIVITY

Komatsu develops and produces major components such as engines and engine controllers in house. Since the engine and the truck work in harmony with “Komatsu Technology”, FD200/250-7 achieves high levels of productivity.

High Performance Komatsu Engine

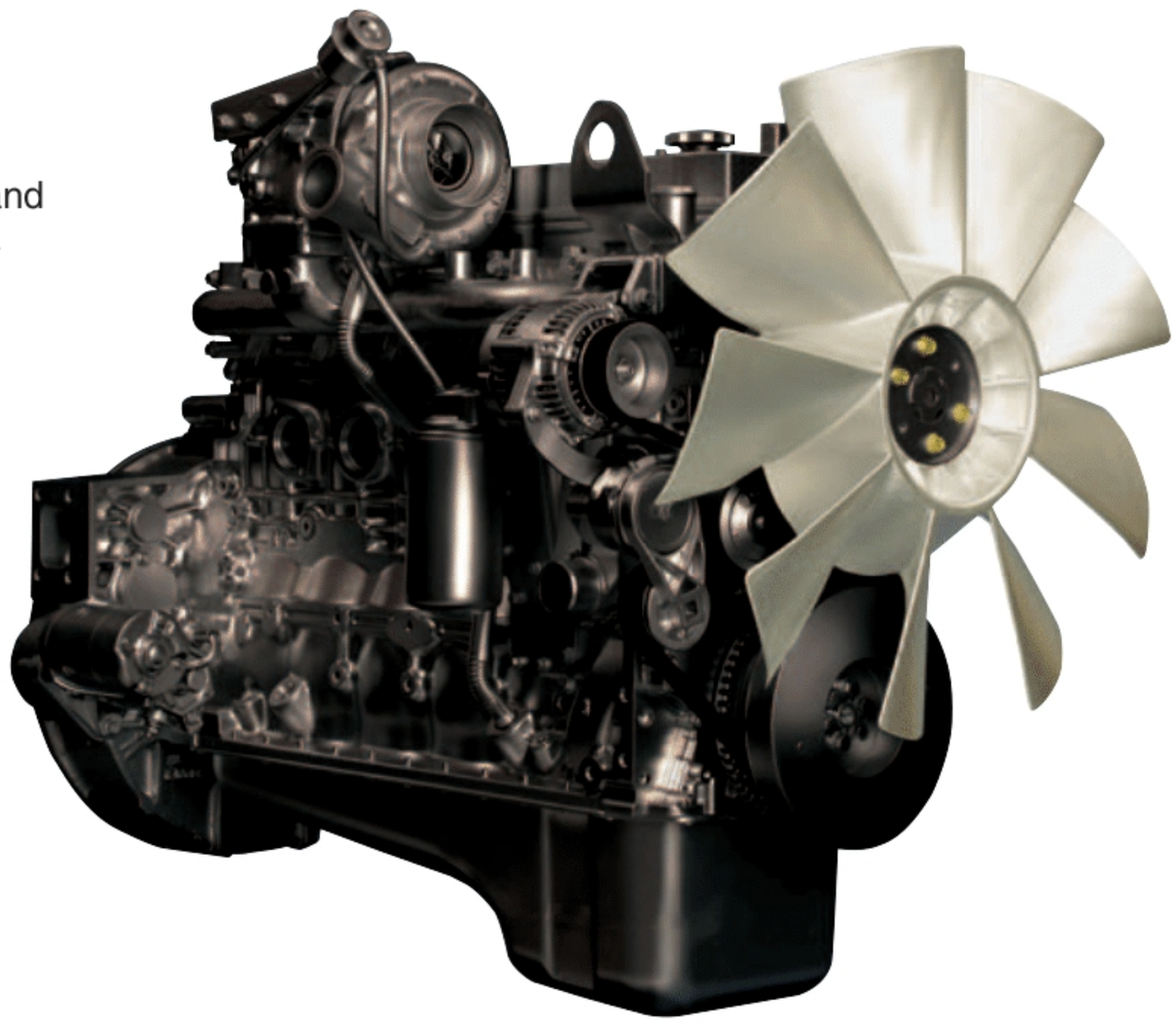
FD200/250-7 is powered by the Komatsu SAA6D107E-1 engine with 6-cylinders and 6.7liter displacement. This engine is also used in Komatsu construction machinery, and its durability is field-proven. The Komatsu engine is highly efficient and environment-friendly, and brings out the greatest performance of the truck.

Low Emissions

The Komatsu SAA6D107E-1 engine is designed to meet U.S. EPA Tier 3 and EU Stage 3A emission regulations, which require 40% less NOx + HC (Hydrocarbon) emissions compared to the second stage regulations.

Fuel Economy

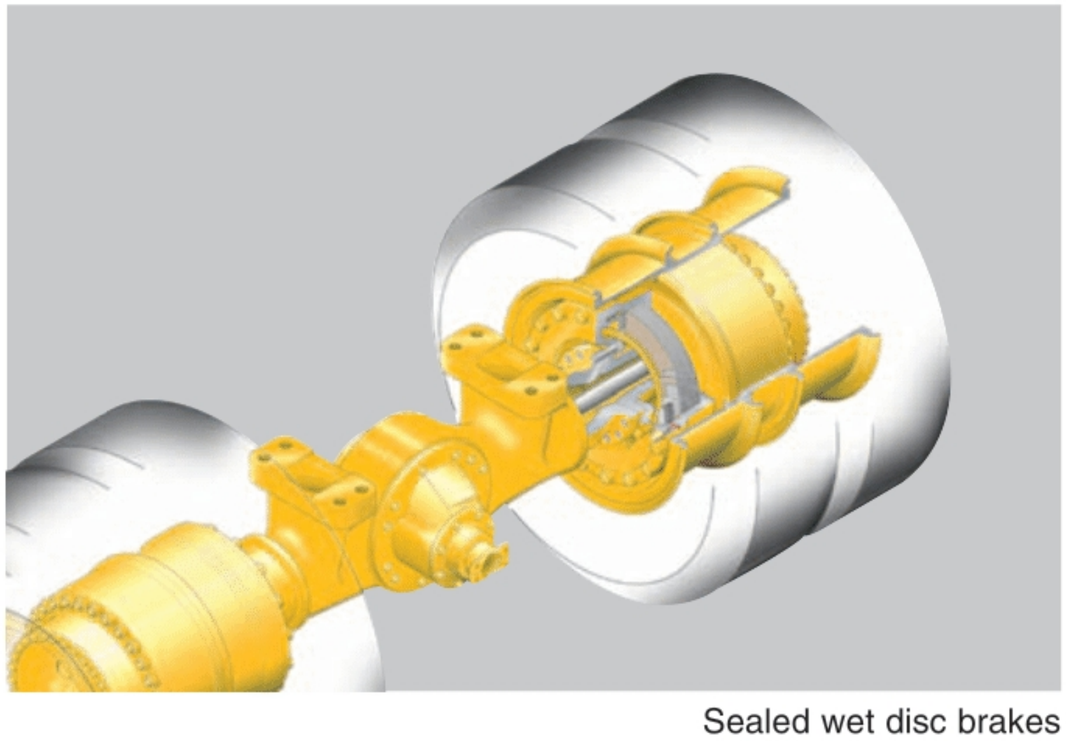
Komatsu original High Pressure Common Rail (HPCR) fuel injection system with an electronic controller optimizes fuel combustion, realizes fuel economy and low emissions.



HIGH POWER CLEAN DIESEL ENGINE
SAA6D107E

Heavy Duty Brakes

Sealed wet disc brakes with independent and large capacity brake oil cooler realize superior overheating resistance. The brake performance is consistent even in harsh applications. Brake discs are sealed and protected from water, dust, and debris, therefore its service life is longer and it is highly reliable.



Sealed wet disc brakes

Automatic Transmission

4-speed automatic transmission is equipped as standard. A suitable gear is automatically selected accordingly to the travel speed. The operator is freed from frequent gear changes, and the acceleration is smooth from gear to gear.

*4-Speed manual transmission is also available as an option

Large Fuel Tank

Large fuel tank enables non-stop multi-shift operation. Its capacity is 400L for FD200-7 and 600L for FD250-7. Less refueling stops means more uptime and increases productivity.

Three Independent Hydraulic Circuits

Hydraulic circuits are independent for the lifting, steering and brakes. They are individually driven by three pumps, therefore lifting while steering is very smooth.

SAFETY & COMFORT

Comfortable Cab Design

Variety of features are incorporated into the cab to enhance operator's work place comfort.

Suspension Seat

Suspension seat with armrests is equipped. Fore-aft, seat height, lumber support and weight adjustments are provided.

Air Conditioner

Air conditioner has three outlet ducts, located on the front right, left and rear of the cab. Climate-controlled air is lead to the operator from all directions.

Full-floating Cab

Four rubber mounts insulate the cab from the chassis, thus the operator is not directly exposed to the engine vibrations.

Large Handrails

Large handrails provide firm grips for the operator, and wide steps enable easy entry and exit of the truck.

Operator Presence Sensing System

Operator Presence Sensing system allows traveling or lifting only when the operator is properly positioned in the operator's seat. If the operator is off from the position while traveling or lifting, traction power is disengaged*, control levers are locked, and an alarm buzzer sets off.

* Traction power is disengaged but brakes are not automatically applied.

Pillar-less Cab

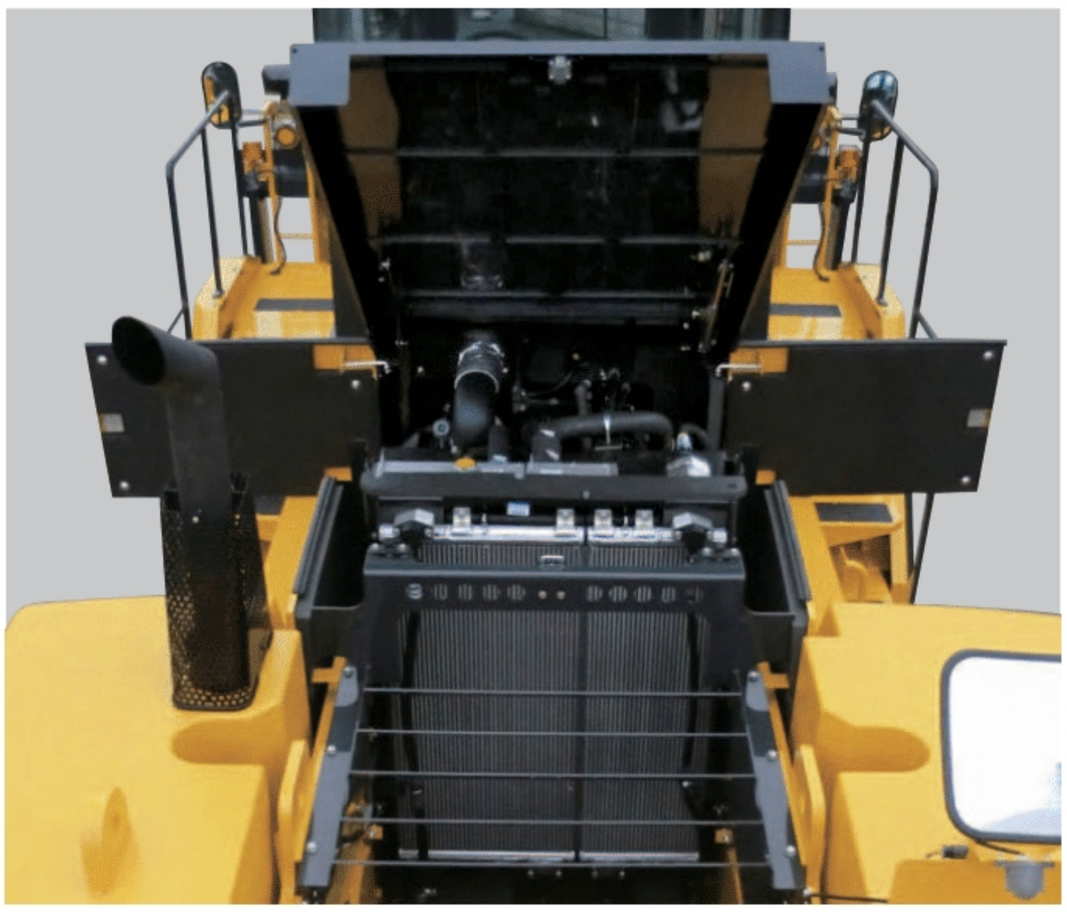
All four corners of the cab are pillar-less and enables non-obstructed views. The superb all-around views enhance safety of operation.

SERVICEABILITY & RELIABILITY

Excellent Serviceability

Easy Access

It is easy to access internal components from the top hood and side covers. The top hood is gas spring assisted and it can be opened and closed easily. Side covers are fitted with latches so that they do not close unintentionally. Serviceability is excellent and routine checks can be done easily.



Additional Fuel Pre-filter with Water Separator

Fuel pre-filter with water separator is equipped in addition to the main fuel filter to ensure water and contaminants are removed. The engine and the fuel injection systems are well protected.

Engineered for Reliability

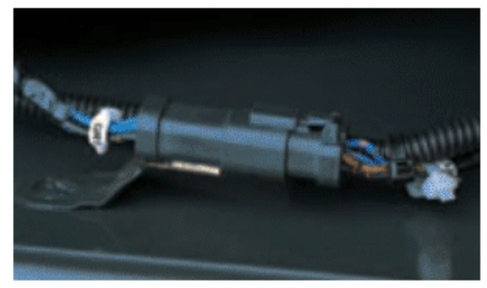
FD200/250-7 incorporates various components that are also used in Komatsu construction machinery. With “Komatsu Technology”, the truck achieves high level of reliability.

High Cooling Capacity

The cooling system incorporates large capacity radiator and after-cooler. In addition, individual oil coolers are provided for hydraulic, brake and torque converter oil lines. High cooling capacity enables superb overheat resistance.

Sealed Connectors for Electrics

Water tight and dust resistant sealed connectors are incorporated to the connections between major harnesses and controllers. The sealed connectors are widely used in Komatsu construction machinery and their reliability is well proven in the field.



Sealed connector

Hydraulic Connections with O-ring Seals

Hydraulic connectors in the truck are flat face-to-face O-ring seal type, which provides secure seal to prevent oil leakage. They are also widely used in Komatsu construction machinery and their reliability is field proven.

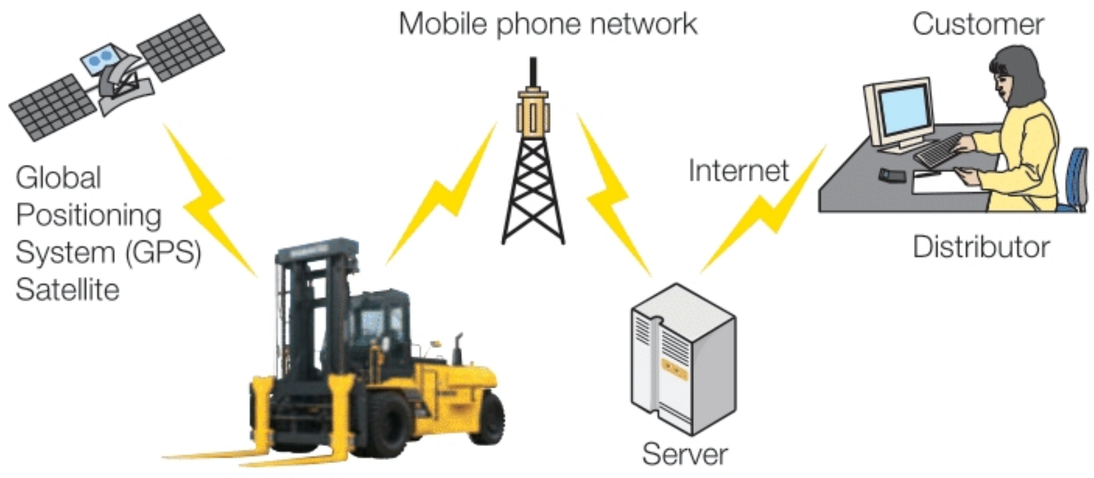
Hydraulic connections with o-ring seals

INFORMATION & COMMUNICATION TECHNOLOGY

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 fuel consumption, schedule the maintenance, and more. KOMTRAX helps you to keep your machine operating at a peak performance and reduces your operating costs.

KOMTRAX



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

SPECIFICATIONS

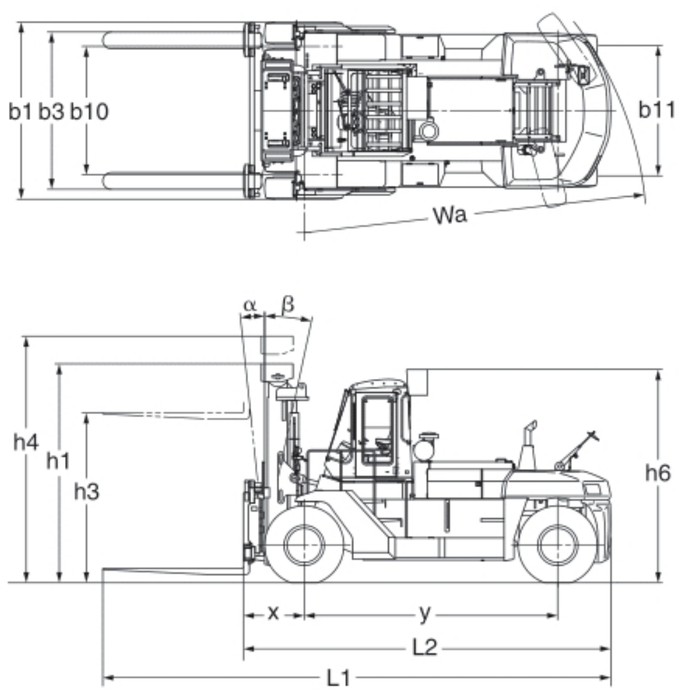
SPECIFICATIONS

Characteristics	1.2	Model	Manufacturer's Designation				FD200-7	FD250-7
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable				Diesel	Diesel
	1.4	Operation Type					Sitting	Sitting
	1.5	Rated Capacity	Q	Rated Capacity		kg	20000 [16600]	25000
	1.6	Load Center	c	Rated Load Center		mm	900 [1220]	1220
	1.8	Load Distance	x	Front Axle Center to Fork Face		mm	925 [1025]	955 [1060]
	1.9	Wheelbase	y			mm	3700	4400
Weight	2.1	Service Weight				kg	27670 [28500]	32850 [33500]
	2.2	Axle Loading	Loaded		Front	kg	43715	53100
	2.2.1				Rear	kg	3955	4750
	2.3		Unloaded		Front	kg	13850	15755
	2.3.1				Rear	kg	13820	17095
Tires	3.1	Tire Type					Pneumatic	Pneumatic
	3.2	Tire Size	Front				14.00-24-20PR	14.00-24-24PR
	3.3		Rear				14.00-24-20PR	14.00-24-24PR
	3.5	Number of Wheel	Front/Rear (x=driven)				4x/2	4x/2
	3.6	Tread, Front	b10			mm	2230	2230
	3.7	Tread, Rear	b11			mm	2265	2265
Dimensions	4.1	Tilting Angle	a / b	Forward/Backward		degree	6/12	6/12
	4.2	Mast Height, Lowered	h1	2-stage Mast		mm	3640	3800
	4.3	Std. Free Lift	h2	2-stage Std. Mast, from Ground		mm	0	0
	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	5130	5290
	4.7	Height, Overhead Guard	h6			mm	3705	3705
	4.19	Length, with Std. Forks	L1			mm	7205 [7905]	8695 [8800]
	4.20	Length, to Fork Face	L2			mm	5385 [5485]	6275 [6380]
	4.21	Width, at Tire	b1			mm	3095	3095
	4.22	Forks	s/e/l	Thickness x Width x Length		mm	95 x 280 x 1820 [100 x 280 x 2420]	107 x 310 x 2420 [107 x 310 x 2420]
	4.24	Width, Fork Carriage	b3			mm	2500 [2730]	2500 [2760]
	4.31	Ground Clearance	m1	Under Mast		mm	325	305
	4.32		m2	at Center of Wheelbase		mm	400	395
	4.33	Right Angle Stacking Aisle*	Ast	plus load length		mm	6175 [6275]	6805 [6910]
	4.35	Turning Radius	Wa			mm	5250	5850
Performance	5.1	Travel Speed (FWD)	Loaded			km/h	17	24
			Unloaded			km/h	28	32
	5.2	Lifting Speed	Loaded			mm/s	270	275
			Unloaded			mm/s	295	285
	5.3	Lowering Speed	Loaded			mm/s	350	350
			Unloaded			mm/s	350	350
	5.6	Max. Drawbar Pull	Loaded 1.5 km/h, 3 min rating			kN	80	103
	5.8	Max. Gradeability	Loaded 1.5 km/h, 3 min rating			%	17	18
	5.10	Service Brake	Operation/Type				Foot/Wet Disc Brake	Foot/Wet Disc Brake
	5.11	Parking Brake	Operation/Control				Hand/Mechanical	Hand/Mechanical
	5.12	Steering	Type				Power Steering	Power Steering
	6.4	Battery	Voltage/Capacity at 5-hour rating			V/Ah	24/88	24/88
I.C Engine	7.1	Make					KOMATSU	KOMATSU
		Model					SAA6D107E-1	SAA6D107E-1
	7.2	Rated Output, SAE net				kW	122	154
	7.3	Rated RPM				min^{-1}	2200	2200
	7.3.1	Max. Torque, SAE net				Nm/min^{-1}	575/1600	931/1500
	7.4	No. of Cylinder/Displacement				cm^3	6/6690	6/6690
	7.6	Fuel Tank Capacity				L	400	600
Others	8.2	Relief Pressure for Attachment				Mpa	20.6	20.6
	8.2.1	Hydraulic tank Capacity				L	324	475
	8.7	Transmission					TORQFLOW	TORQFLOW

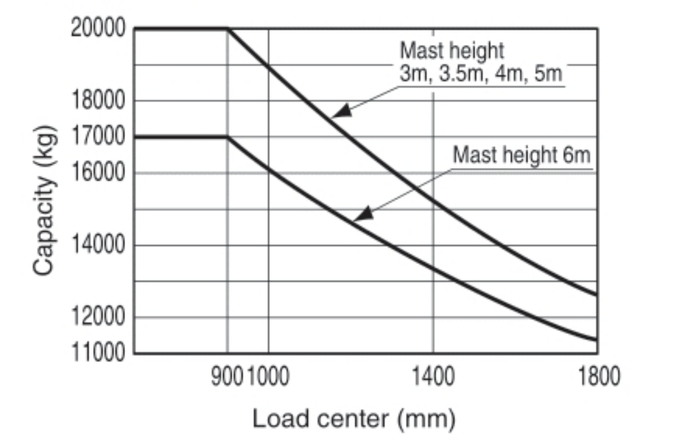
* : Right Angle Stacking Aisle does not include any operational clearance.

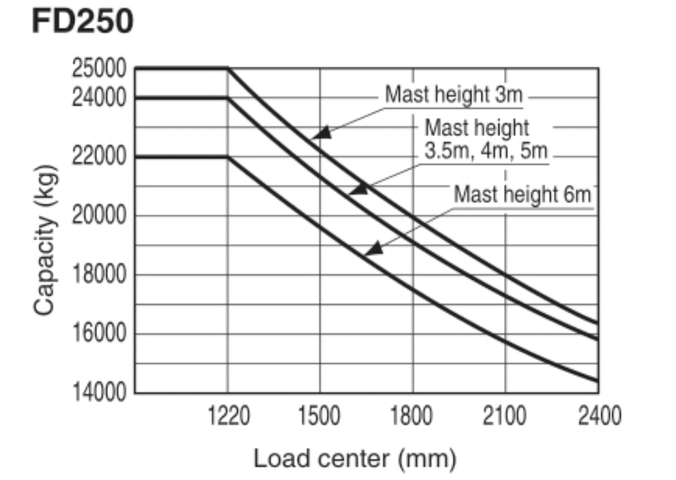
[ ] : Value of hydraulic fork positioner with side shift function

DIMENSIONS



LOAD CAPACITY CURVE





MAXIMUM LOAD AND OVERALL HEIGHT OF MAST BY LIFTING HEIGHT

■ 2-stage free view mast

maximum fork height (mm) / model	Load capacity (kg)		Overall height [Lowered / Extended] (mm)	
	FD200-7 (load center 900 mm)	FD250-7 (load center 1220 mm)	FD200-7	FD250-7
3000	20000	25000	3640/5150	3800/5310
3500	20000	24000	3890/5650	4050/5810
4000	20000	24000	4140/6150	4300/6310
5000	20000	24000	4840/7350	5000/7510
6000	17000	22000	5340/8350	5500/8510

STANDARD EQUIPMENT

- Komatsu SAA6D107E-1 diesel engine (U.S. EPA Tier 3 and EU Stage 3A emission compliant)
- HPCR fuel injection system
- Electronic engine control system
- 4-Speed automatic transmission
- Heavy-duty wet disc brakes with independent oil cooler
- Fully hydrostatic power steering
- Upward exhaust pipe
- Cyclone air cleaner (double element) with rain cap
- Additional fuel pre-filter with water separator
- Steel cab
- Air conditioner
- Operator's seat with suspension and armrests (reclining, height adjust, fore-aft adjust, lumber support adjust and weight adjust)
- Operator Presence Sensing System
- Tiltable steering column
- Standard directional lever (left)
- Combination switch (turn signal lamp & lamp switch)
- Speedometer
- Hour meter (service meter)
- Engine coolant temperature gauge
- Fuel gauge
- Torque converter oil temperature gauge
- Battery charge circuit caution lamp
- Air cleaner element warning lamp
- Coolant level warning lamp
- Parking brake pilot lamp
- Engine warning lamp
- Central warning lamp
- Neutral pilot lamp
- Lifting interlock caution lamp
- Headlamps (with Hi-Lo beams)
- Turn signal lamps
- Rear combination lamps
- Back-up buzzer
- Rear view mirrors
- Rear under mirror
- Fuel tank level gauge (truck side)
- Hydraulic oil tank level gauge (truck side)
- Fuel cap with key

Tire:
- Front double tires, pneumatic
- Rear single tire, pneumatic

Attachment:
- Manual type fork positioner

Fork:
- 1820 mm (standard for FD200-7)
- 2420 mm (standard for FD250-7)

OPTIONAL EQUIPMENT

- Overhead guard specification
- Canvas cab
- Front glass with wiper
- Front glass without wiper
- Heater & defroster
- Overhead guard cover
- 4-Speed manual transmission
- Cyclone air cleaner (double element) with pre-cleaner
- Directional lever (right)
- Flash beacon (yellow, red)
- Two front working lamps (fender)
- Working lamps (2 on mast, 2 on counterweight)
- One rear working lamp on counterweight
- Two rear working lamps on counterweight
- Back-up buzzer (large sound)
- Tilt cylinder boots
- Power steering cylinder boots
- Rear under mirrors (2pc)
- Centralized grease piping (mast, rear axle)
- Tool kit
- Additional control valves and levers for attachments

Tire:
- Front double tires, elastic cushion
- Rear single tire, elastic cushion

Attachment:
- Hydraulic fork positioner with side shift function

Fork:
- 2420 mm (option for FD200-7)

- Cold district spec (-30°C)
- Sandy/dusty environment spec (90 A brushless alternator, tilt cylinder boots, power steering cylinder boots)

FD200-7

FD250-7

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