KOMATSU®

FH100-1
FH120-1
FH135-1
FH160-1

EU Stage 4 Engine

FH160

DIESEL FORKLIFT TRUCK

Photos may include optional equipment.

HORSEPOWER
Gross: 110 kW 148 HP/2200 min^{-1}
Net: 100 kW 134 HP/2200 min^{-1}

RATED CAPACITY
10000 - 16000 kg

LOAD CENTER
600 mm

WALK-AROUND

FH160-1

HORSEPOWER

Gross: 110 kW 148 HP/2200 min^{-1}
Net: 100 kW 134 HP/2200 min^{-1}

RATED CAPACITY

FH100-1 : 10000 kg
FH120-1 : 12000 kg
FH135-1 : 13500 kg
FH160-1 : 16000 kg

LOAD CENTER

FH100-1 : 600 mm
FH120-1 : 600 mm
FH135-1 : 600 mm
FH160-1 : 600 mm

Ecology & Economy

- Komatsu clean diesel engine NEW
- Superior fuel economy
- Outstanding environment-friendliness

Workability & Durability

- Build upon Komatsu unique hydraulic technologies NEW
- Electronically-controlled HST provides exceptional operability NEW
- High-quality and reliable Komatsu components
- Heavy-duty sealed wet disc brakes

ICT & KOMTRAX

- KOMTRAX visualizes the machine operation and supports your fleet management NEW
- Large color monitor provides the truck status at a glance NEW

Safety & Comfort

- State of the art safety features
- Enhanced accessories provides additional value
- Comfortable cockpit reduces operator's fatigue

KOMTRAX

FH100-1

FH120-1

FH135-1

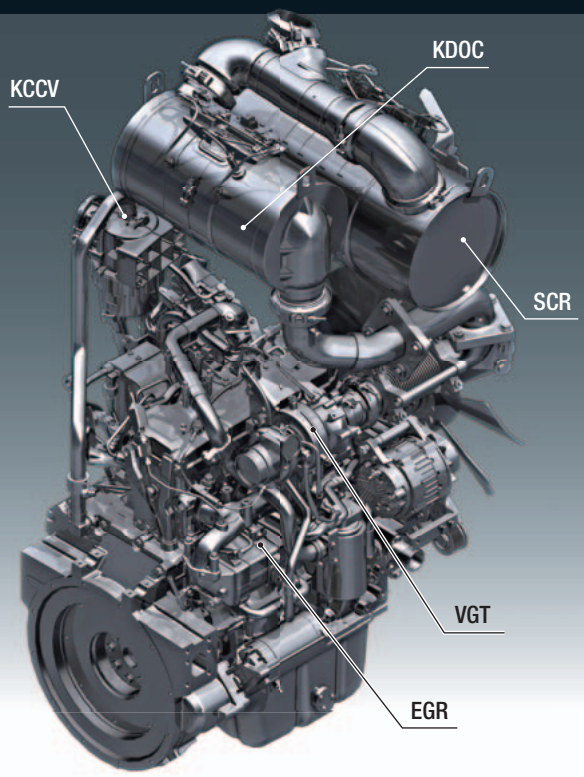
Pictures in this brochure may be in posture only for brochure. When leaving the forklift, please make it a safe posture according to the operator's manual.

ECOLOGY & ECONOMY

KOMATSU NEW ENGINE TECHNOLOGIES

Komatsu Clean Diesel Engine NEW

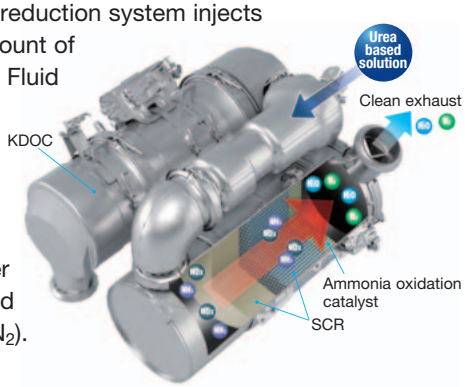
FH100/120/135/160-1 is powered by Komatsu SAA4D107E-3 engine, which provides exceptional performance while achieving superb fuel economy and dramatically reducing environmental load. Thanks to Komatsu's cutting edge clean diesel engine technology, the engine meets the EU Stage 4 emission standard which require 90% less particulate matter (PM) and more than 80% less nitrogen oxides (NOx) emission compared to Stage 3A generation. Engines, electronics and hydraulic components are all developed Komatsu in-house and are designed to work in harmony with the machine. Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.



Technologies Applied to New Engine

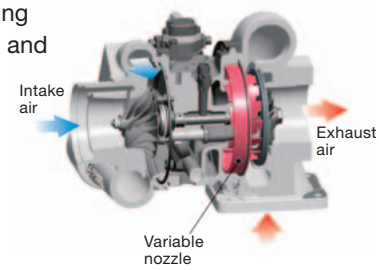
Heavy-duty after treatment system NEW

This new system combines a Komatsu Diesel Oxidation Catalyst (KDOC) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of Diesel Exhaust Fluid (DEF) at the proper rate, thereby decomposing NOx into non-toxic water vapor (H_2O) and nitrogen gas (N_2).



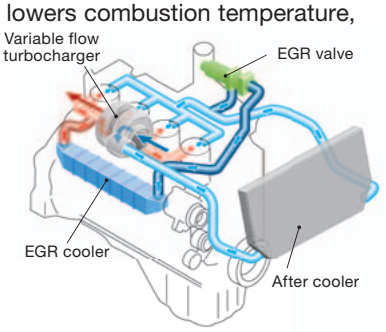
Variable Geometry Turbocharger (VGT) system NEW

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic accumulator is used to manage and deliver optimal air flow to the combustion chamber under all speed and load conditions, resulting in cleaner exhaust gas and improved fuel economy while maintaining performance.



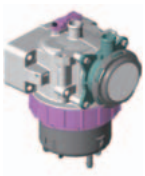
Cooled Exhaust Gas Recirculation (EGR) NEW

Cooled EGR system recirculates a portion of exhaust gas into the air intake and lowers combustion temperature, thereby reducing NOx emissions. The system achieves a dynamic reduction of NOx, while reducing fuel consumption.



Komatsu Closed Crankcase Ventilation (KCCV) NEW

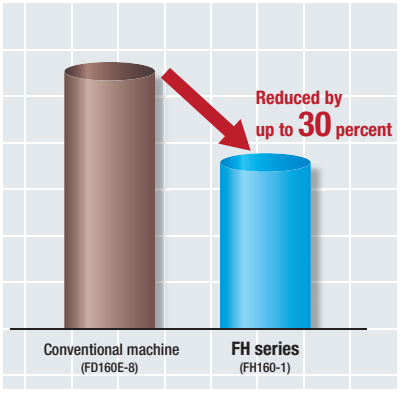
Crankcase emissions (Blowby gas) are passed through a KCCV filter, traps oil mist which is returned back to the crankcase for combustion. PM emission is reduced and results in cleaner exhaust gas.



Superior Fuel Economy

Up to 30% fuel saving

The FH series incorporates the combination of the high efficiency Komatsu engine, “Electronically-controlled HST” and “Variable displacement pump with CLSS” technologies, that can provide powerful performance with at most 30% reduction on fuel consumption. Significant fuel economy can be achieved especially in high cycle operations where fast-paced loading, unloading, and directional changes are prevalent.



Fuel consumption

Up to 30% fuel saving (FH160-1)

* Komatsu tested data comparing the FH160-1 and FD160E-8. The results may vary depending on conditions.

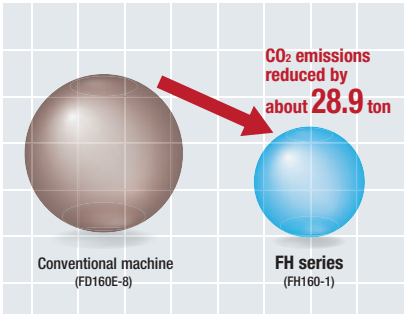
Auto engine shut down function NEW

Auto engine shut down function is equipped as standard. If the operator applies the parking brake, sets the directional lever in the neutral position and leaves the forklift truck but without stopping the engine, the engine is automatically shut down after a preset time. This feature contributes to prevent unnecessary fuel consumption caused by needless idling.
(Engine shutdown time can be set from 1 minute to 5 minutes)

Outstanding Environment-friendliness

Reduced CO_2 emission

The reduced fuel consumption enables reducing CO_2 emissions. In case of high load work, in annual 28.9 ton CO_2 emission can be reduced.



* Komatsu tested data comparing the FH160-1 and FD160E-8. Operation time is 5 hours/day, 300 days/year. The CO_2 emissions coefficient is calculated according to the guidelines (April 2006) shared by the Ministry of Economy, Trade and Industry and the Ministry of Land, Infrastructure, Transport and Tourism of Japan. The results may vary depending on conditions.

Average fuel consumption / Instant fuel consumption gauge NEW

The average fuel consumption and instant fuel consumption gauge are integrated into large multiple function display. This supports fuel-saving driving and contributes to reducing environmental impact.
(See page 9)

Automatically controlled engine output

The load weight is detected by sensor, and engine output is automatically controlled when the load is light. This feature contributes to reducing fuel consumption.

WORKABILITY & DURABILITY

Build Upon Komatsu Unique Hydraulic Technologies

NEW

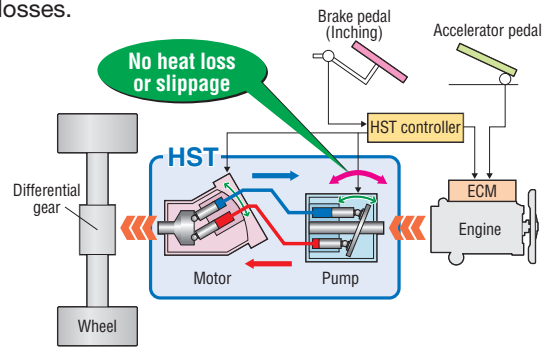
The FH Series was designed to utilize highly reliable, field-proven Komatsu's drive and control components that have been used for many years in Komatsu construction equipment. The travel system is"Electronically-controlled HST", Komatsu's unique hydraulic drive system that has been employed for Komatsu wheel loaders and bulldozers. The lift hydraulic system uses "Variable displacement pump with CLSS", a highly efficient hydraulic system employed in Komatsu hydraulic excavators. The FH Series models are powered by a Komatsu designed and manufactured diesel engine that features advanced engine technologies. All these are combined to achieve superior fuel economy, reduced environmental load and outstanding controllability.

HST: Hydro-Static Transmission

CLSS: Closed-center Load Sensing System

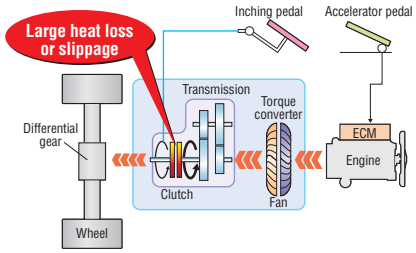
■ Electronically - controlled HST

In this system, the engine rotates the hydraulic pump and the hydraulic power is transmitted to the hydraulic motor. Since this system does not have a clutch, there is no possibility of heat loss or slippage which could be caused by the inching operation. Thus the system minimizes power transmission losses.



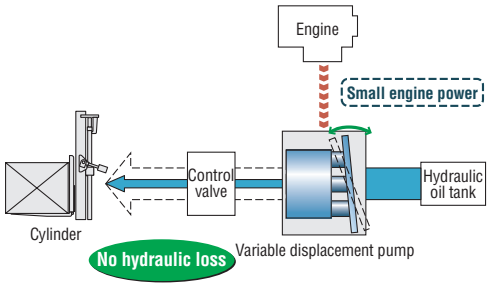
■ Conventional torque converter-drive forklift truck

The transmission loss is created in torque converter and in the clutch respectively. This type of system might generate more heat and slippage of the clutch, especially if used in a high cycle application where the inching pedal is used frequently.



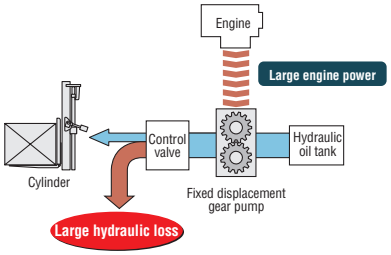
■ Variable displacement pump with CLSS

The pump supplies just the amount of oil needed to do specific work, and there is no loss of hydraulic oil. This system makes very efficient use of the engine power, resulting in reduced fuel consumption. With this system the operator also can lift the load with the engine running at slow speeds.



■ Conventional fixed displacement gear pump

Fixed displacement gear pumps deliver a specific amount of oil per rotation. Many times, excessive amount of oil is delivered and leading to additional loading on the engine and more fuel consumption.



Electronically-controlled HST Provides Exceptional Operability NEW

Shock-free shifting

The HST drive system is continuously variable speed transmission and provides smooth acceleration and stepless ratio changes, thus there are less shock and worries for load shifting.

Controlled rolling back on a ramp

The HST drive system has a self-braking feature which hydraulic flow of fluid is stopped by releasing the accelerator pedal. This feature prevents uncontrolled rolling back and holds the truck on a ramp while the operator releases the brake pedal for a ramp-start.

Smooth directional changes without releasing accelerator pedal

The engine is not mechanically connected to the drive system, but rather connected hydraulically to transmit tractive force, making it possible for the FH series forklift trucks to make directional changes smoothly without the need to releasing the accelerator pedal. This greatly enhances ease of operation.

* For safety operation, slow down before directional changes.

Precise travel control at very low speed

Approaching and stopping at the cargo and shelves needs precise travel control at a very slow speed. The FH series is equipped with sophisticated controller that realizes smooth slow speed travel by simply operating the accelerator pedal, resulting in less fatigue.

No creeping

The FH series does not creep like conventional torque converter trucks even if the operator releases the brake pedal while the directional lever is in F or R position. This feature contributes to reduced risks in confined areas and when approaching to pick up a load.

* For safe operation, be sure to apply the parking brake on when parking the forklift truck.

High-quality and Reliable Komatsu Components

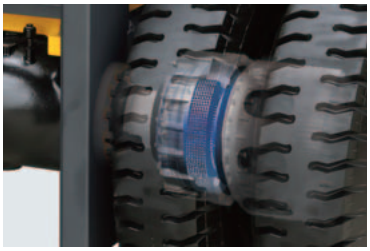
All of the FH series main components, such as engine, hydraulic pumps, hydraulic motor, axles and controllers are designed, developed and manufactured by Komatsu, ensuring the quality and reliability that comes from exacting Komatsu engineering standards.

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.

Heavy-duty Sealed Wet Multiple-disc Brakes

The FH series forklift trucks are equipped with sealed wet multiple-disc brakes which its performance is field-proven by Komatsu construction equipment. The sealed wet multiple-disc brakes provide protection from dust, dirt and debris, providing superior durability, fade and water resistance, promoting constant and stable brake performance in high cycle operations.

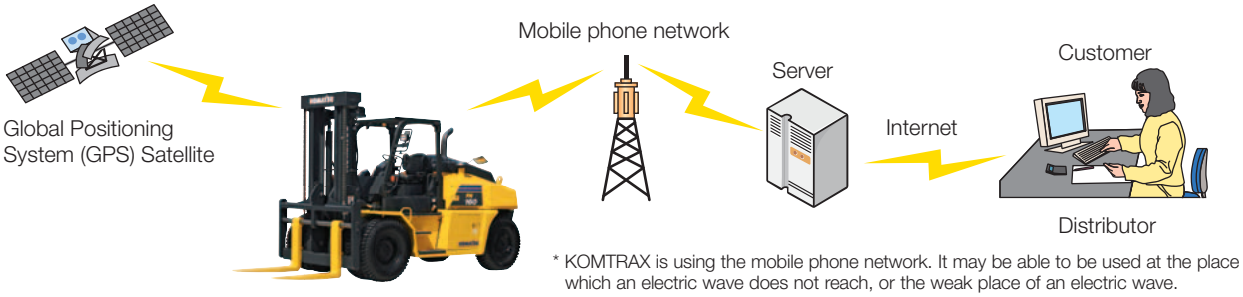


ICT & KOMTRAX

KOMTRAX Visualizes the Machine Operation and Supports Your Fleet Management NEW

The FH series is equipped with KOMTRAX as standard. Machine information accumulated in the controllers are transmitted via mobile phone network and stored in server. KOMTRAX can provide machine information such as location, operating hour status, and fuel consumption. For owners, the machine condition can be checked from the office. In addition, Komatsu supports machine owners so that they can use their Komatsu machines in best conditions at all times by using KOMTRAX information and through our services network.

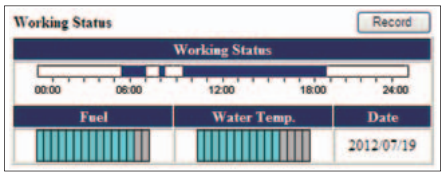
KOMTRAX

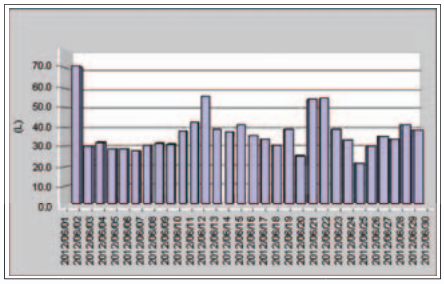


* KOMTRAX is using the mobile phone network. It may be able to be used at the place which an electric wave does not reach, or the weak place of an electric wave.

Machine operation information

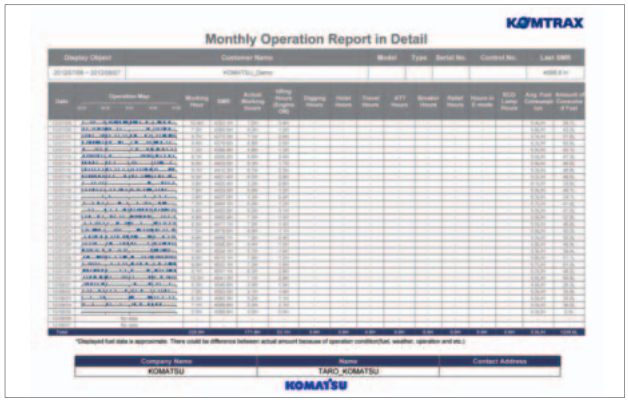
Grasping details of machine operation information on a daily basis makes it possible to understand fuel consumption and running costs.





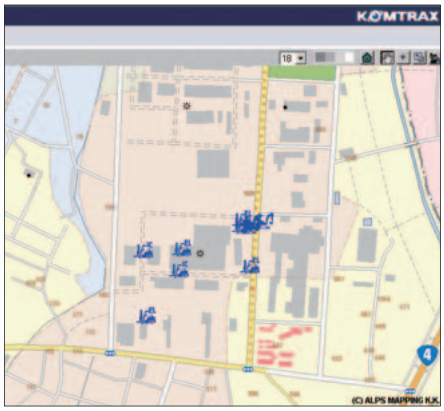
Operation report

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.



LARGE HIGH RESOLUTION LIQUID CRYSTAL DISPLAY (LCD) MONITOR

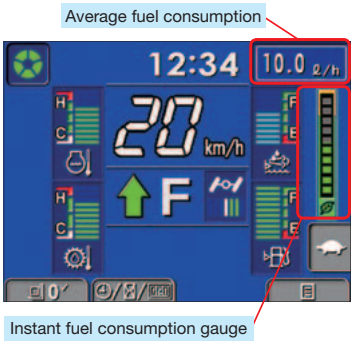
Large Color Monitor Provides the Truck Status at a Glance NEW

A large high resolution LCD monitor is equipped as standard. Machine information such as travel speed and fuel economy can be understood with one view. Furthermore, the machine speed limit can easily be set. Detailed information on the operation time, fuel consumption, maintenance and more can be called out by function buttons.

1. Hour meter (Service Meter Readings (SMR)) integration state
2. Parking brake indicator / Parking brake warning Indicator
3. Lifting interlock indicator
4. Traveling interlock indicator
5. Message
6. Engine coolant temperature gauge
7. HST oil temperature gauge
8. Clock / Hour meter (SMR) / Odometer
9. Speedometer / Over speed warning / Speed limit
10. Directional lever position indicator
11. Seat belt warning Indicator
12. Aftertreatment devices regeneration indicator
13. Steering angle gauge
14. Preheating indicator
15. Fuel consumption gauge / Load scale
16. DEF level gauge
17. Fuel gauge
18. ECO gauge (instant fuel consumption gauge)
19. Guidance icon
20. Function button

Average fuel consumption/ Instant fuel consumption gauge

The average fuel consumption and instant fuel consumption gauge are integrated into large multiple function display. These information supports fuel-saving driving.



Operation information

Operation information can be checked by pressing function buttons.

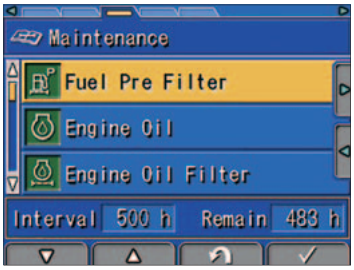
- Working Hours
- Average Fuel Consumption
- Actual Working Hours
- Actual Fuel Consumption
- Fuel Consumption

Average fuel consumption record

The average fuel consumption history can be checked for the last twelve hours or last week.

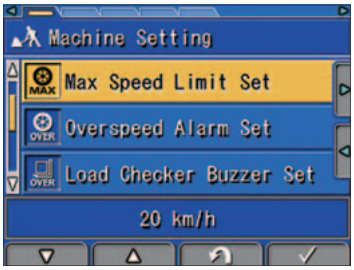
Maintenance tracking

When the machine approaches or exceeds the oil and filter replacement interval, the monitor panel will display lights to inform the operator.



Machine setting

The machine setting such as maximum travel speed limit, over speed alarm, auto engine stop time can be set on the monitor screen. This enables optimum machine setting to match the work site.



SAFETY & COMFORT

State of the Art Safety Features

Seat belt warning indicator NEW

This warning calls the driver's attention when the seat belt is not fastened, thus supports safe operation. Furthermore, the color of the seat belt is bright orange, which is easier to check from outside the truck if the seat belt is fastened.

Photo shows seat for Japan version.

Seat belt interlock function (Optional) NEW

The seat belt interlock function allows traveling or lifting only when the seat belt is fastened. If the seat belt is unfastened during operation, traveling and lifting power is cut off *.

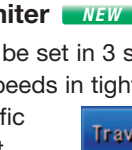
Operator Presence Sensing system

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 interlock function cuts off power transmission but does not serve to apply the brake.

Neutral start function

The FH series engine is only permitted to start when the operator is in the seat, the directional lever is in the neutral position and the brake pedal is kept depressed. This function prevents sudden starting of the forklift truck, thus supports safe operation.



Travel speed limiter NEW

Travel speeds can be set in 3 stages. This function is useful to reduce speeds in tight spaces or to keep the forklift within specific in-plant speed limit rules.
(Set travel speed: 5, 8, 15 km/h or OFF)

Prevention of the lift operation when turning off the key

When the key switch is off, lift function is locked and assures that the fork and mast will not operate if the control lever is touched by accident, thus supports safe operation.

Parking brake warning indicator

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.

Rear view mirror NEW

A large size mirror is mounted on the rear of overhead guard, eliminates blind spots when traveling in reverse.

Rear view camera and monitoring system (Optional) NEW

Rear view camera is mounted on the rear of the truck, provides clear rear view through 7 inches large liquid-crystal display. (Available for truck with steel cab)

Enhanced Accessories Provides Additional Value

Load scale (with overload alarm) NEW

A simple load scale that allows the cargo weight to be measured in 10 kg steps is standard. If the load exceeds the set weight, the buzzer sounds to inform the operator. This diminishes the risk of exceeding the weight limit.

* This system is a reference for operator, therefore cannot be used for commerce purpose.

Key cylinder cover NEW

A key cylinder cover is equipped as standard. This cover protects the key from trash and dust, thus the truck is optimum for operating in dusty environment.

Speedometer and Over speed warning alarm NEW

The speedometer and the over speed alarm is equipped as standard. If the speed exceeds the set speed, the buzzer sounds to inform the operator. This contributes to enhanced work site safety.
(The warning alarm can be set at intervals of 1 km/hour.)

Fuel cap with key NEW

Fuel cap with key is equipped as standard. This prevents fuel from being stolen or contaminated by foreign matter.

Steering angle gauge NEW

Rear tire direction is displayed on monitor to inform operator when the steering wheel is turned.

Headlight warning indicator NEW

When the key switch is off without turning off the headlight switch, an indicator lamp turns on. This contributes to prevent flat battery caused by forgetting to turn off the headlight switch.

SAFETY & COMFORT

Comfortable Cockpit Reduces Operator's Fatigue

Suspension seat with armrests

Deluxe suspension seat with armrests is standard equipped. Fore-aft, seat height, lumber support and weight adjustments are provided, enables the operator to sit in a relaxed state. Thus, provides comfortable work space and reduces operator's fatigue.

Fully hydrostatic power steering provides excellent maneuverability

The FH series 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.

Upward exhaust pipe

An upward exhaust pipe is equipped as standard. This prevents dust on the road surface from being blown up into working area, thus contributes to enhanced work site environment.

Seat side control levers with armrest

Control levers are located at operator's seat side to provide superb work equipment controllability. Armrest is fitted as standard to minimize operator's fatigue.

Storage box

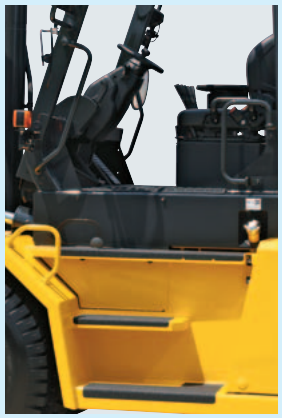
Storage box is provided under operator's seat, provides neat and organized work place for operators.

Steel cab (Optional) UPGRADE

Steel cab protects operator from severe work in cold district and noisy jobsite, realizing a comfortable and quiet working environment.

Standard equipment

Large front handrails



Outside rear view mirror

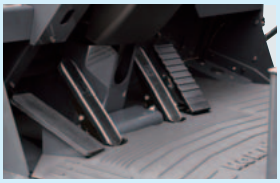
Parking lever with release button

Tiltable steering column

Halogen Headlights with guard

Wide step

Wide floor space with left footrest



EQUIPMENT

STANDARD EQUIPMENT

- EU Stage 4 compliant diesel engine
- Cyclone air cleaner (double element)
- Electronic engine control system
  - Overheat prevention function
  - Auto engine warm-up function
  - Auto air preheat function
- Auto engine shutdown function
- Variable engine output control function
- Variable displacement pump with CLSS
- Electronically-controlled HST
- Wet multiple-disc brake
- Parking lever with release button
- Inside rear view mirror
- Outside rear view mirror
- Rear under mirror
- Neutral start function
- Travel speed limiter
- Operator presence sensing system
- Key-off lift lock
- Full suspension seat
- Fully hydrostatic power steering
- Tiltable steering column
- Small diameter steering wheel with spinner knob
- Steering knob synchronizer function
- Large liquid crystal display
  - Engine coolant temperature gauge
  - Fuel gauge
  - Fuel consumption gauge
  - Hour meter (SMR)
  - Speedometer
  - Directional lever position indicator
  - Parking brake warning indicator
  - Seat belt warning indicator
- Back up alarm
- Overspeed alarm
- Arm rest
- Front handrails
- Halogen Headlights & rear combination lights
- Upward exhaust pipe (Right side)
- KOMTRAX
- Fuel cap with key
- Load scale (with overload alarm)
- Tool kit

TIRE
- Front dual tire, pneumatic
- Rear tire, pneumatic

FORK
- 1220 mm

OPTIONAL EQUIPMENT

- Steel cab
- Windshield
- Heater
- Tilt cylinder boots
- Power steering cylinder boots
- Cyclone air cleaner with pre-cleaner
- Removable radiator screen & chassis under carriage protection (screen)
- Vinyl head guard cover
- LED headlights
- LED front working light(s)
- LED rear working light(s)
- LED rotating light
- Seat belt interlock function
- Mast tilt angle gauge
- Rear view camera & monitoring system (Steel cab only)
- Delux suspension seat

TIRE
- Elastic cushion

FORK
- Optional fork lengths available

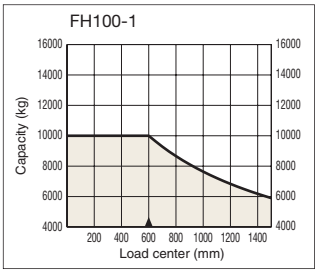
SPECIFICATIONS

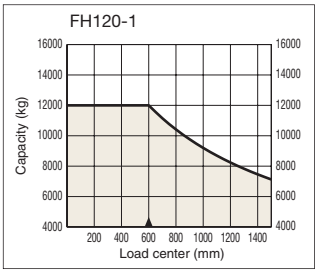
SPECIFICATIONS

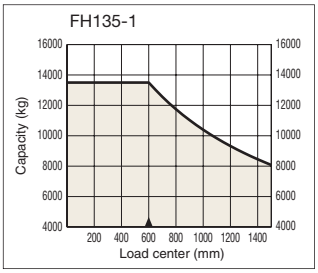
Characteristics	1.2	Model	Manufacturer's Designation				FH100-1	FH120-1	FH135-1	FH160-1
	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable				Diesel	Diesel	Diesel	Diesel
	1.4	Operation Type					Sitting	Sitting	Sitting	Sitting
	1.5	Rated Capacity	Q	Rated Capacity		kg	10000	12000	13500	16000
	1.6	Load Center	c	Rated Load Center		mm	600	600	600	600
	1.8	Load Distance	x	Front Axle Center to Fork Face		mm	695	715	740	750
	1.9	Wheelbase	y			mm	3050	3050	3050	3050
Weight	2.1	Service Weight				kg	13960	15540	16720	18500
	2.2	Axle Loading	Loaded		Front	kg	21450	24980	27290	31010
	2.2.1				Rear	kg	2510	2560	2930	3490
	2.3		Unloaded		Front	kg	7200	7810	7850	7920
	2.3.1				Rear	kg	6760	7730	8870	10580
Tires	3.1	Tire Type					Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tire Size	Front				9.00-20-14PR	10.00-20-16PR	11.00-20-16PR	12.00-20-18PR
	3.3		Rear				9.00-20-14PR	10.00-20-16PR	11.00-20-16PR	12.00-20-18PR
	3.5	Number of Wheel	Front/Rear (x=driven)				4x/2	4x/2	4x/2	4x/2
	3.6	Tread, Front	b10			mm	1700	1700	1770	1770
	3.7	Tread, Rear	b11			mm	1900	1890	1890	1870
Dimensions	4.1	Tilting Angle	a / b	Forward/Backward		degree	6/12	6/12	6/12	6/12
	4.2	Mast Height, Lowered	h1	2-stage Mast		mm	2890	3160	3170	3290
	4.3	Std. Free Lift	h2	2-stage Std. Mast, from Ground		mm	0	0	0	0
	4.4	Std. Lift Height	h3	2-stage Std. Mast, from Ground		mm	3000	3000	3000	3000
	4.5	Mast Height, Extended	h4	2-stage Std. Mast		mm	4400	4670	4680	4800
	4.7	Height, Overhead Guard	h6			mm	2880	2900	2910	2930
	4.19	Length, with Std. Forks	L1			mm	5650	5670	5930	5940
	4.20	Length, to Fork Face	L2			mm	4430	4450	4710	4720
	4.21	Width, at Tire	b1	Double		mm	2430	2430	2430	2480
	4.22	Forks	s/e/l	Thickness x Width x Length		mm	75 x 170 x 1220	75 x 185 x 1220	80 x 185 x 1220	85 x 210 x 1220
	4.23	Fork Carriage Class	ISO 2328, Type A/B/no				Pin mount	Pin mount	Pin mount	Pin mount
	4.24	Width, Fork Carriage	b3			mm	2134	2130	2210	2210
	4.31	Ground Clearance	m1	Under Mast		mm	260	260	270	280
	4.32		m2	at Center of Wheelbase		mm	335	355	360	380
	4.33	Aisle Width *	Ast	with L1000 x W1200 pallet		mm	6095	6115	6350	6360
	4.34		Ast	with L1200 x W800 pallet		mm	6295	6315	6550	6560
	4.35	Turning Radius	Wa			mm	4200	4200	4410	4410
Performance	5.1	Travel Speed (FWD)	Loaded			km/h	24	24	24	22
			Unloaded			km/h	25	25	26	23
	5.2	Lifting Speed	Loaded			mm/s	450	405	335	305
			Unloaded			mm/s	475	430	355	325
	5.3	Lowering Speed	Loaded			mm/s	440	400	400	435
			Unloaded			mm/s	550	500	440	400
	5.6	Max. Drawbar Pull	Loaded 1.5 km/h, 3 min rating			kN	76.4	75.2	73.4	81.4
	5.8	Max. Gradeability	Loaded 1.5 km/h, 3 min rating			%	30	25	22	21
	5.10	Service Brake	Operation/Type				Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
	5.11	Parking Brake	Operation/Control				Hand/Mechanical	Hand/Mechanical	Hand/Mechanical	Hand/Mechanical
	5.12	Steering	Type				FHPS	FHPS	FHPS	FHPS
	6.4	Battery	Voltage/Capacity at 5-hour rating			V/Ah	2 x 12/92	2 x 12/92	2 x 12/92	2 x 12/92
I.C Engine	7.1	Make					KOMATSU	KOMATSU	KOMATSU	KOMATSU
		Model					SAA4D107E-3-A	SAA4D107E-3-A	SAA4D107E-3-A	SAA4D107E-3-A
	7.2	Rated Output, SAE net				kW	100	100	100	100
	7.3	Rated RPM				min-1	2200	2200	2200	2200
	7.3.1	Max. Torque, SAE net				Nm/min-1	620/1500	620/1500	620/1500	620/1500
	7.4	No. of Cylinder/Displacement				cm^3	4/4460	4/4460	4/4460	4/4460
	7.6	Fuel Tank Capacity				L	280	280	280	280
Others	8.2	Relief Pressure for Attachment				Mpa	21.6	21.6	21.6	21.6
	8.2.1	Hydraulic tank Capacity				L	225	225	225	225
	8.7	Transmission					Hydrostatic	Hydrostatic	Hydrostatic	Hydrostatic

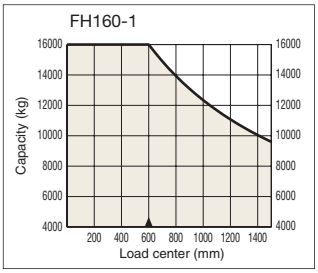
* : VDI 2198 includes 200 mm clearance

LOAD CAPACITY CURVE

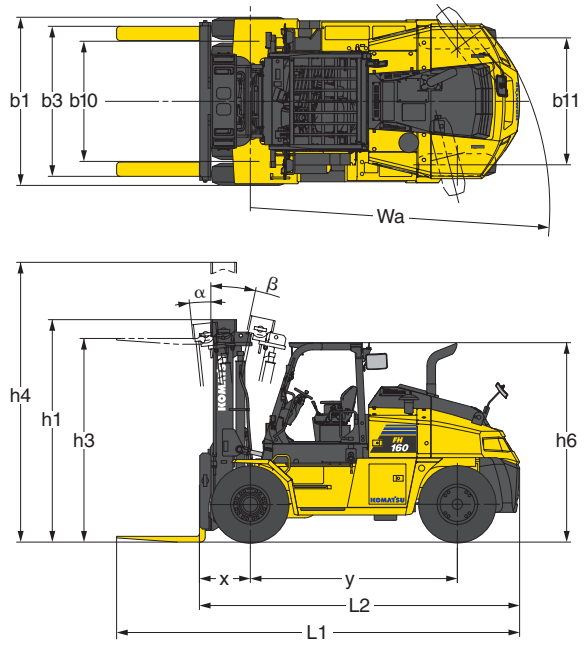








DIMENSIONS



Dimensions of the FH160-1

AISLE WIDTH

model	Length of load (mm)	Width of load (mm) 1000	1100	2000	3000	4000	5000	6000
FH100-1	1000	6095	6095	6095	6095	6155	6345	9605
	1100	6195	6195	6195	6195	6255	6435	9645
	1500	6595	6595	6595	6595	6645	6795	9805
	2000	7095	7095	7095	7095	7135	7260	10040
	2500	7595	7595	7595	7595	7630	7735	10310
FH120-1	1000	6115	6115	6115	6115	6175	6365	9615
	1100	6215	6215	6215	6215	6270	6450	9650
	1500	6615	6615	6615	6615	6660	6810	9815
	2000	7115	7115	7115	7115	7155	7280	10050
	2500	7615	7615	7615	7615	7650	7755	10325
FH135-1	1000	6350	6350	6350	6350	6410	6595	9625
	1100	6450	6450	6450	6450	6505	6685	9660
	1500	6850	6850	6850	6850	6895	7045	9825
	2000	7350	7350	7350	7350	7390	7510	10065
	2500	7850	7850	7850	7850	7885	7990	10340
FH160-1	1000	6360	6360	6360	6360	6420	6605	9625
	1100	6460	6460	6460	6460	6515	6690	9665
	1500	6860	6860	6860	6860	6905	7055	9830
	2000	7360	7360	7360	7360	7400	7520	10070
	2500	7860	7860	7860	7860	7895	8000	10345

MAXIMUM LOAD AND OVERALL HEIGHT OF MAST BY LIFTING HEIGHT

■ **2-stage free view mast** (load center 600 mm)

maximum fork height (mm) / model	Load capacity (kg) FH100-1	FH120-1	FH135-1	FH160-1	Overall height [Lowered / Extended] (mm) FH100-1	FH120-1	FH135-1	FH160-1
3000	10000	12000	13500	16000	2890/4400	3160/4670	3170/4680	3290/4800
3300	10000	12000	13500	16000	3040/4700	3310/4970	3320/4980	3440/5100
3500	10000	12000	13500	16000	3140/4900	3410/5170	3420/5180	3540/5300
3700	10000	12000	13500	16000	3240/5100	3510/5370	3520/5380	3640/5500
4000	10000	12000	13500	16000	3390/5400	3760/5770	3770/5780	3790/5800
4500	10000	12000	13500	16000	3740/6000	4010/6270	4020/6280	4040/6300
5000	10000	12000	13500	16000	4140/6650	4460/6970	4470/6980	4490/7000
5500	9000	10500	12000	14500	4440/7200	4710/7470	4720/7480	4740/7500
6000	8000	9500	11000	13000	4690/7700	4960/7970	4970/7980	4990/8000

FH100-1 / FH120-1 / FH135-1 / FH160-1

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Printed in Japan 201710 IP.SIN

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CEN00792-00