

KOMATSU®

FH60-2

FH70-2

FH80-2

EU Stage 3B Engine

DIESEL FORKLIFT TRUCK

FH80



Photos may include optional equipment.

HORSEPOWER

Gross: 53.7 kW 72 HP/2150 min⁻¹
Net: 48.6 kW 65.1 HP/2150 min⁻¹

RATED CAPACITY

6000 - 8000 kg

LOAD CENTER

600 mm

WALK-AROUND

FH60-2 / FH70-2 / FH80-2



FH80-2

HORSEPOWER

Gross: 53.7 kW 72 HP/2150 min⁻¹
Net: 48.6 kW 65.1 HP/2150 min⁻¹

RATED CAPACITY

FH60-2 : 6000 kg
FH70-2 : 7000 kg
FH80-2 : 8000 kg

LOAD CENTER

FH60-2 : 600 mm
FH70-2 : 600 mm
FH80-2 : 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*

IGT & 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



FH60-2

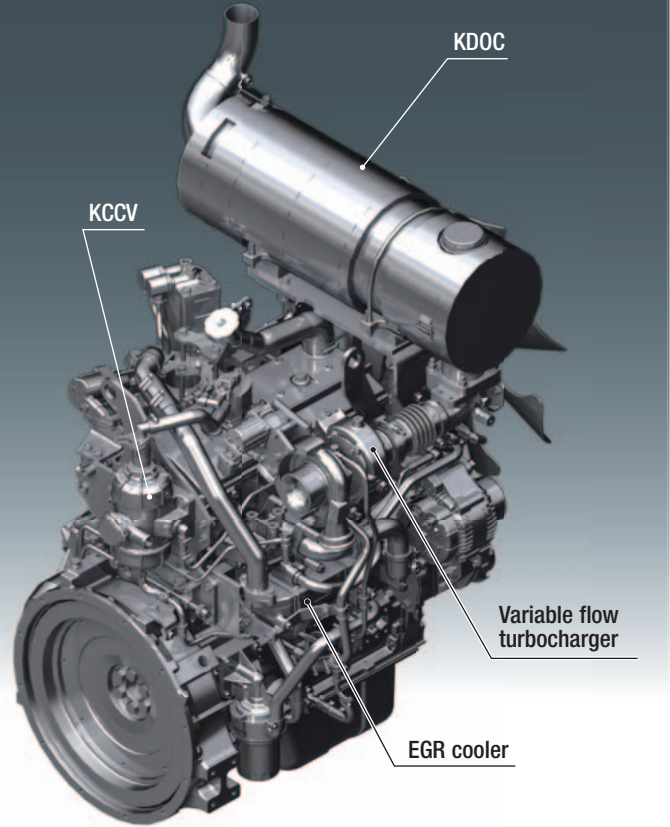
FH70-2

ECOLOGY & ECONOMY

KOMATSU NEW ENGINE TECHNOLOGIES

Komatsu Clean Diesel Engine **NEW**

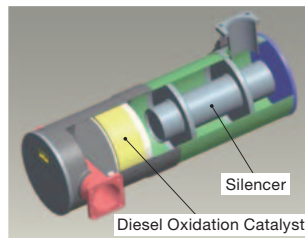
FH60/70/80-2 is powered by Komatsu SAA4D95LE-6 engine, which provides exceptional performance while achieving superb fuel economy and dramatically reducing environmental load. Thanks to Komatsu's cutting edge clean diesel engine technology, the engine meets the EU Stage 3B emission standard which require 93% less particulate matter (PM) 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

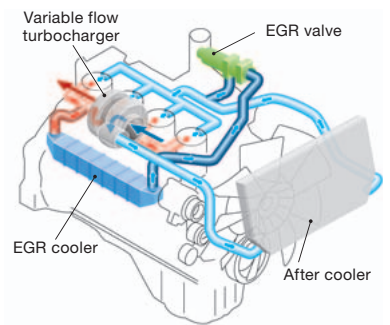
Komatsu Diesel Oxidation Catalyst (KDOC) **NEW**

The new Komatsu Diesel Oxidation Catalyst (KDOC) is a smart and simplified system that removes PM without need for a Diesel Particulate Filter. The KDOC does not have a scheduled service interval like DPF and it designed for long life with no scheduled maintenance required. For machine owners, this means low owning and operating costs due to less complexity and seamless operation.



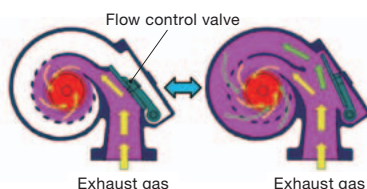
Cooled Exhaust Gas Recirculation (EGR) **NEW**

Cooled EGR system reduces NOx emissions by recirculating portion of exhaust gas for combustion. Its technology has been well proven in Komatsu Stage 3A and 3B construction equipment engines, and robust components ensure reliability for demanding work condition.



Variable flow turbocharger **NEW**

A newly designed variable flow turbocharger features simple and reliable technology that varies the intake airflow. This provides optimal air flow under all speed and load conditions producing cleaner exhaust gas without sacrificing power and performance.



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.

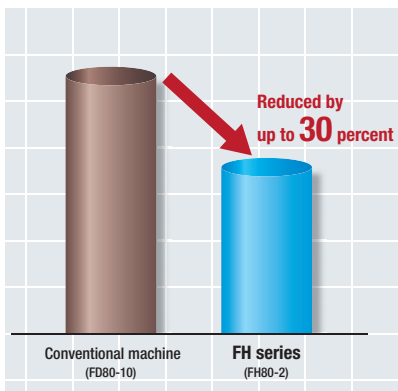


FH60-2 / FH70-2 / FH80-2

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 (FH80-2)

* Komatsu tested data comparing the FH80-2 and FD80-10. The results may vary depending on conditions.

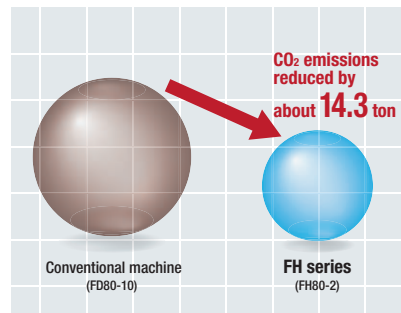
Auto engine shut down function NEW

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 CO₂ emission

The reduced fuel consumption enables reducing CO₂ emissions. In case of high load work, in annual 14.3 ton CO₂ emission can be reduced.



* Komatsu tested data comparing the FH80-2 and FD80-10. Operation time is 5 hours/day, 300 days/year. The CO₂ 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)



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.

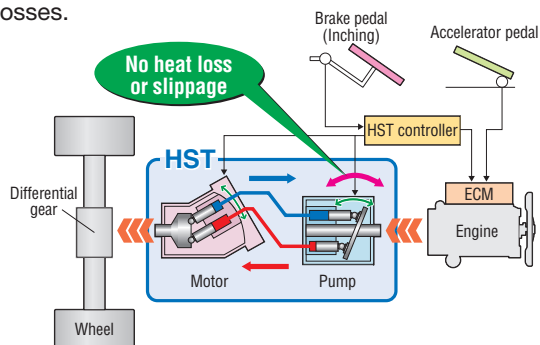
HST: Hydro-Static Transmission

CLSS: Closed-center Load Sensing System



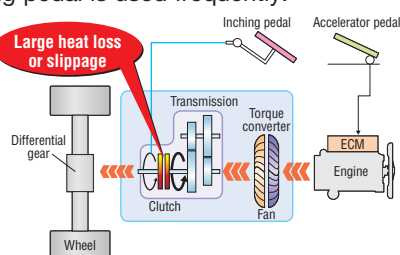
Electronically - controlled HST

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.



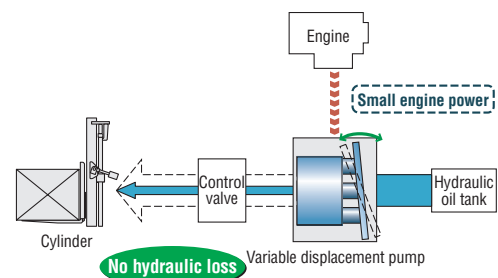
Conventional torque converter-drive forklift truck

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.



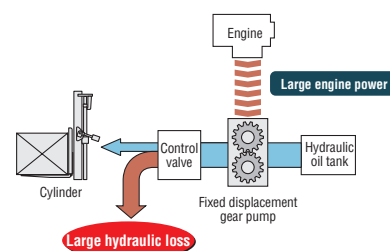
Variable displacement pump with CLSS

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.



FH60-2 / FH70-2 / FH80-2

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

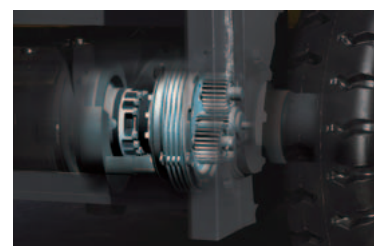
All of the FH series main components, such as engine, hydraulic pumps, hydraulic motor, axles and controllers are designed, developed and manufactured by Komatsu, ensuring the quality and reliability that comes from exacting Komatsu engineering standards.

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

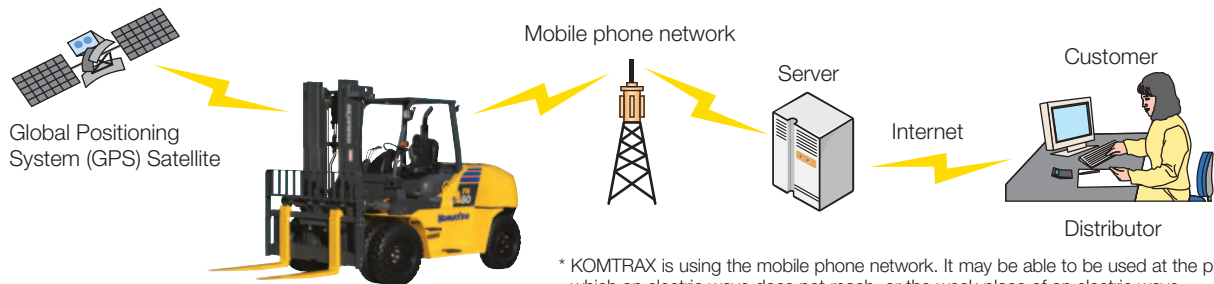
The FH series forklift trucks are equipped with sealed wet multiple-disc brakes which its performance is field-proven by Komatsu construction equipment. The sealed wet multiple-disc brakes provide protection from dust, dirt and debris, providing superior durability, fade and water resistance, promoting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



ICT & KOMTRAX

KOMTRAX Visualizes the Machine Operation and Supports Your Fleet Management NEW

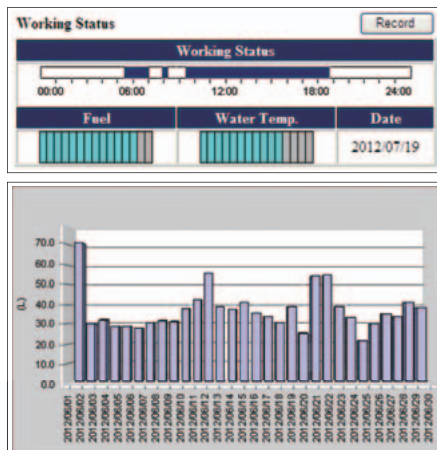
The FH series is equipped with KOMTRAX as standard. Machine information accumulated in the controllers are transmitted via mobile phone network and stored in server. KOMTRAX can provide machine information such as location, operating hour status, and fuel consumption. For owners, the machine condition 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 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.

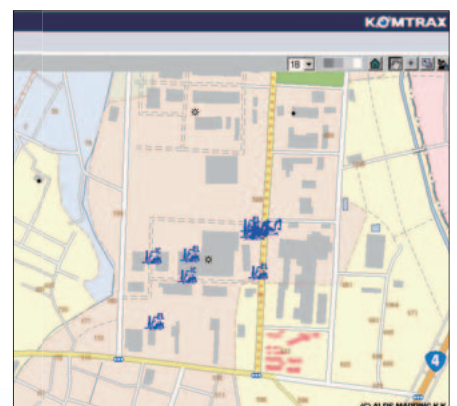
Monthly Operation Report in Detail KOMTRAX

Machine ID	Customer Name	Model	Type	Serial No.	Control No.	Last 2000
20120601001	KOMTRAX, Japan	FH80	Counter	20120601001	20120601001	4000.0
20120601002	KOMTRAX, Japan	FH80	Counter	20120601002	20120601002	4000.0
20120601003	KOMTRAX, Japan	FH80	Counter	20120601003	20120601003	4000.0
20120601004	KOMTRAX, Japan	FH80	Counter	20120601004	20120601004	4000.0
20120601005	KOMTRAX, Japan	FH80	Counter	20120601005	20120601005	4000.0
20120601006	KOMTRAX, Japan	FH80	Counter	20120601006	20120601006	4000.0
20120601007	KOMTRAX, Japan	FH80	Counter	20120601007	20120601007	4000.0
20120601008	KOMTRAX, Japan	FH80	Counter	20120601008	20120601008	4000.0
20120601009	KOMTRAX, Japan	FH80	Counter	20120601009	20120601009	4000.0
20120601010	KOMTRAX, Japan	FH80	Counter	20120601010	20120601010	4000.0
20120601011	KOMTRAX, Japan	FH80	Counter	20120601011	20120601011	4000.0
20120601012	KOMTRAX, Japan	FH80	Counter	20120601012	20120601012	4000.0
20120601013	KOMTRAX, Japan	FH80	Counter	20120601013	20120601013	4000.0
20120601014	KOMTRAX, Japan	FH80	Counter	20120601014	20120601014	4000.0
20120601015	KOMTRAX, Japan	FH80	Counter	20120601015	20120601015	4000.0
20120601016	KOMTRAX, Japan	FH80	Counter	20120601016	20120601016	4000.0
20120601017	KOMTRAX, Japan	FH80	Counter	20120601017	20120601017	4000.0
20120601018	KOMTRAX, Japan	FH80	Counter	20120601018	20120601018	4000.0
20120601019	KOMTRAX, Japan	FH80	Counter	20120601019	20120601019	4000.0
20120601020	KOMTRAX, Japan	FH80	Counter	20120601020	20120601020	4000.0
20120601021	KOMTRAX, Japan	FH80	Counter	20120601021	20120601021	4000.0
20120601022	KOMTRAX, Japan	FH80	Counter	20120601022	20120601022	4000.0
20120601023	KOMTRAX, Japan	FH80	Counter	20120601023	20120601023	4000.0
20120601024	KOMTRAX, Japan	FH80	Counter	20120601024	20120601024	4000.0
20120601025	KOMTRAX, Japan	FH80	Counter	20120601025	20120601025	4000.0
20120601026	KOMTRAX, Japan	FH80	Counter	20120601026	20120601026	4000.0
20120601027	KOMTRAX, Japan	FH80	Counter	20120601027	20120601027	4000.0
20120601028	KOMTRAX, Japan	FH80	Counter	20120601028	20120601028	4000.0
20120601029	KOMTRAX, Japan	FH80	Counter	20120601029	20120601029	4000.0
20120601030	KOMTRAX, Japan	FH80	Counter	20120601030	20120601030	4000.0

Company Name: KOMATSU Name: TAIKO, KOMATSU Contact Address: KOMATSU

Machine location information

Grasping machine location information allows machine operation management.



FH60-2 / FH70-2 / FH80-2

LARGE HIGH RESOLUTION LIQUID CRYSTAL DISPLAY (LCD) MONITOR

Large Color Monitor Provides the Truck Status at a Glance NEW

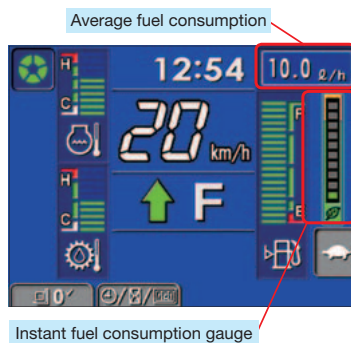
A large high resolution LCD monitor is equipped as standard. Machine information such as travel speed and fuel economy can be understood with one view. Furthermore, the machine speed limit can easily be set. Detailed information on the operation time, fuel consumption, maintenance and more can be called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



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



Average fuel consumption record

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



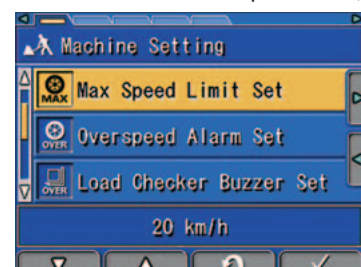
Maintenance tracking

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.



Operation information

Operation information can be checked by pressing function buttons.

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

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.



Seat belt interlock function 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)

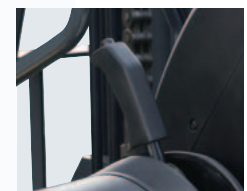


Prevention of the lift operation when turning off the key

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.



FH60-2 / FH70-2 / FH80-2

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

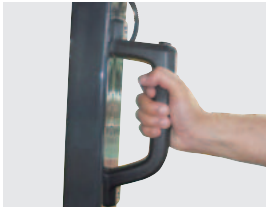
Fuel cap with key is equipped as standard. This prevents fuel from being stolen or contaminated by foreign matter.



Rear assist grip with horn button NEW

When moving in reverse, a stable posture can be kept by grasping the rear assist grip. The horn can be operated with the finger tips while grasping the grip.

This improves comfort in a site accompanied by long reverse running.



SAFETY & COMFORT

Comfortable Cockpit Reduces Operator's Fatigue

New operator's seat **NEW**

The new operator's seat has wider seat surface, offers waist support and thus enables the operator to sit in a relaxed state. Thus, provides comfortable work space and reduces operator's fatigue. In addition, an assist grip is mounted on the left side for easy getting on and off.



Upward exhaust pipe **NEW**

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.



Standard equipment

Plastic overhead guard cover



Small diameter steering wheel (300 mm)



Large front handrail



Tilttable steering column



Parking lever with release button



Halogen Headlights



Paper binder at engine hood



Wide step



Hang down pedal and wide floor space



EQUIPMENT

STANDARD EQUIPMENT

- EU Stage 3B 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 displacement pump with CLSS
- Electronically-controlled HST
- Wet multiple-disc brake
- Parking lever with release button
- Plastic overhead guard cover
- Outside rear view mirror
- Neutral start function
- Travel speed limiter
- Operator presence sensing system
- Key-off lift lock
- Full suspension seat
- Fully hydrostatic power steering
- Tilttable 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
- Paper binder at engine hood
- Front handrail
- 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
- Inside rear view mirror
- Rear under mirror
- Tilt cylinder boots
- Power steering cylinder boots
- Cyclone air cleaner with pre-cleaner
- Removable radiator screen & chassis under carriage protection (screen)
- LED headlights
- LED front working light(s)
- LED rear working light(s)
- LED rotating light
- Seat belt interlock function
- Mast tilt angle gauge
- TIRE
 - Elastic cushion
 - Single front drive for FH60
- FORK
 - Optional fork lengths available



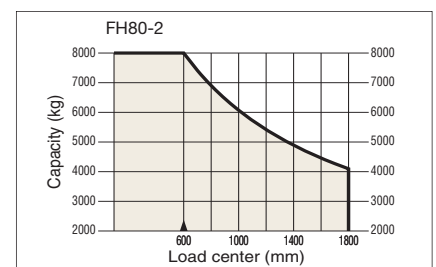
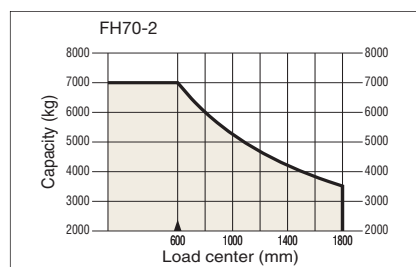
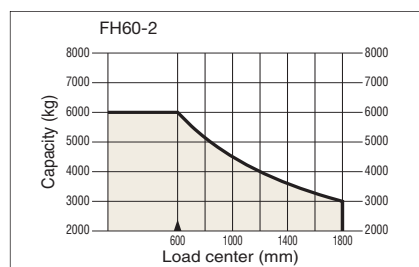
SPECIFICATIONS

SPECIFICATIONS

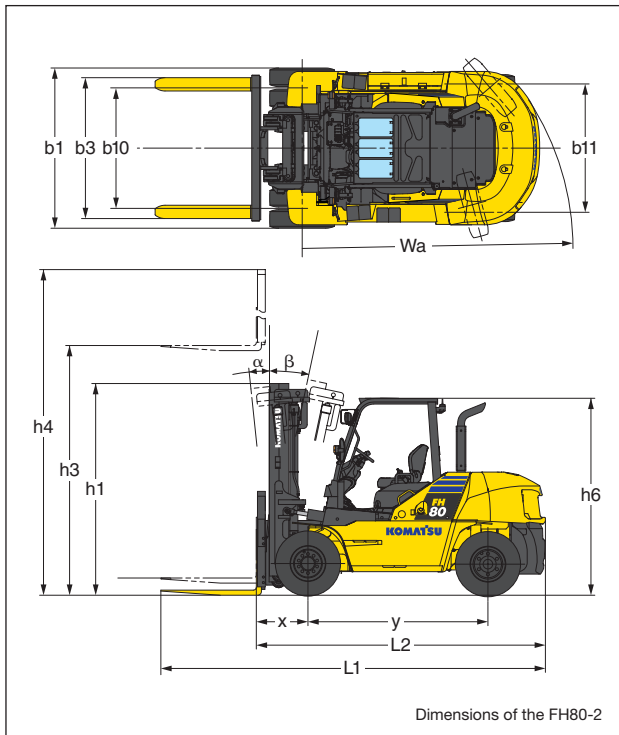
Characteristics	Model		Manufacturer's Designation		FH60-2	FH70-2	FH80-2	
	1.2	Model		Manufacturer's Designation		FH60-2	FH70-2	FH80-2
1.3	Power Type		Electric, Diesel, Gasoline, LPG, Cable		Diesel	Diesel	Diesel	
1.4	Operation Type				Sitting	Sitting	Sitting	
1.5	Rated Capacity	Q	Rated Capacity	kg	6000	7000	8000	
1.6	Load Center	c	Rated Load Center	mm	600	600	600	
1.8	Load Distance	x	Front Axle Center to Fork Face	mm	605	610	660	
1.9	Wheelbase	y		mm	2300	2300	2300	
Weight	2.1	Service Weight		kg	8945	9710	11280	
	2.2	Axle Loading	Loaded	Front	kg	13405	14905	17095
	2.2.1			Rear	kg	1540	1805	2185
	2.3		Unloaded	Front	kg	4155	4095	4570
	2.3.1			Rear	kg	4790	5615	6710
Tires	3.1	Tire Type			Pneumatic	Pneumatic	Pneumatic	
	3.2	Tire Size		Front	8.25-15-12PR	8.25-15-14PR	8.25-15-18PR	
	3.3			Rear	8.25-15-12PR	8.25-15-14PR	8.25-15-18PR	
	3.5	Number of Wheel		Front/Rear (x=driven)	4x/2	4x/2	4x/2	
	3.6	Tread, Front	b10	mm	1540	1540	1540	
	3.7	Tread, Rear	b11	mm	1640	1640	1640	
	Dimensions	4.1	Tilting Angle		a / b Forward/Backward	degree	6/12	6/12
4.2		Mast Height, Lowered		h1 2-stage Mast	mm	2500	2585	
4.3		Std. Free Lift		h2 2-stage Std. Mast, from Ground	mm	215	220	
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	4350	4350	
4.7		Height, Overhead Guard		h6	mm	2525	2525	
4.19		Length, with Std. Forks		L1	mm	4725	4810	
4.20		Length, to Fork Face		L2	mm	3505	3590	
4.21		Width, at Tire		b1 Double	mm	2050	2050	
4.22		Forks		s/e/l Thickness x Width x Length	mm	65 x 150 x 1220	65 x 150 x 1220	65 x 170 x 1220
4.23		Fork Carriage Class		ISO 2328, Type A/B/no		class4, A	class4, A	class4, A
4.24		Width, Fork Carriage		b3	mm	1690	1690	1800
4.31		Ground Clearance		m1 Under Mast	mm	235	235	254
4.32			m2 at Center of Wheelbase	mm	305	305	305	
4.33	Aisle Width *		Ast with L1000 x W1200 pallet	mm	5275	5380	5530	
4.34			Ast with L1200 x W800 pallet	mm	5275	5380	5530	
4.35	Turning Radius		Wa	mm	3250	3350	3450	
Performance	5.1	Travel Speed (FWD)		Loaded	km/h	22.5	22.5	
				Unloaded	km/h	23.5	23.5	
	5.2	Lifting Speed		Loaded	mm/s	465	430	
				Unloaded	mm/s	500	450	
	5.3	Lowering Speed		Loaded	mm/s	480	480	
				Unloaded	mm/s	500	500	
	5.6	Max. Drawbar Pull		Loaded 1.5 km/h, 3 min rating	kN	44.7	44.7	
	5.8	Max. Gradeability		Loaded 1.5 km/h, 3 min rating	%	29	29	
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		
6.4	Battery		Voltage/Capacity at 5-hour rating	V/Ah	2 x 12/72	2 x 12/72	2 x 12/72	
I.C Engine	7.1	Make				KOMATSU	KOMATSU	
		Model				SAA4D95LE-6-C	SAA4D95LE-6-C	
	7.2	Rated Output, SAE net		kW	48.6	48.6	48.6	
	7.3	Rated RPM		min-1	2150	2150	2150	
	7.3.1	Max. Torque, SAE net		Nm/min-1	349/1400	349/1400	349/1400	
	7.4	No. of Cylinder/Displacement		cm³	4/3260	4/3260	4/3260	
7.6	Fuel Tank Capacity		L	177	177	177		
Others	8.2	Relief Pressure for Attachment		Mpa	17.2	17.2	17.2	
	8.2.1	Hydraulic tank Capacity		L	133	133	133	
	8.7	Transmission			Hydrostatic	Hydrostatic	Hydrostatic	

* : VDI 2198 includes 200 mm clearance

LOAD CAPACITY CURVE



DIMENSIONS



AISLE WIDTH

model	Length of pallet (mm)	Width of pallet (mm)						
		800	900	1000	1100	1200	1300	1400
FH60-2	800	5275	5275	5275	5275	5275	5275	5275
	900	5275	5275	5275	5275	5275	5275	5275
	1000	5275	5275	5275	5275	5275	5275	5275
	1100	5275	5275	5275	5275	5275	5275	5275
	1200	5275	5275	5275	5275	5275	5275	5275
	1300	5355	5355	5355	5355	5355	5355	5355
	1400	5455	5455	5455	5455	5455	5455	5455
FH70-2	800	5380	5380	5380	5380	5380	5380	5380
	900	5380	5380	5380	5380	5380	5380	5380
	1000	5380	5380	5380	5380	5380	5380	5380
	1100	5380	5380	5380	5380	5380	5380	5380
	1200	5380	5380	5380	5380	5380	5380	5380
	1300	5460	5460	5460	5460	5460	5460	5460
	1400	5560	5560	5560	5560	5560	5560	5560
FH80-2	800	5530	5530	5530	5530	5530	5530	5530
	900	5530	5530	5530	5530	5530	5530	5530
	1000	5530	5530	5530	5530	5530	5530	5530
	1100	5530	5530	5530	5530	5530	5530	5530
	1200	5530	5530	5530	5530	5530	5530	5530
	1300	5610	5610	5610	5610	5610	5610	5610
	1400	5710	5710	5710	5710	5710	5710	5710

MAXIMUM LOAD AND OVERALL HEIGHT OF MAST BY LIFTING HEIGHT

■ 2-stage free view mast (single tire, load center 600 mm)

maximum fork height (mm)	model	Load capacity (kg)			Overall height [Lowered / Extended] (mm)		
		FH60-2	FH70-2	FH80-2	FH60-2	FH70-2	FH80-2
3000		6000	7000	8000	2500/4350	2585/4350	2710/4350
3300		6000	7000	8000	2650/4650	2735/4650	2860/4650
3500		6000	7000	8000	2750/4850	2835/4850	2960/4850
3700		6000	7000	8000	2850/5050	2935/5050	3060/5050
4000		6000	7000	8000	3000/5350	3085/5350	3210/5350
4300		6000	7000	8000	3150/5650	3235/5650	3360/5650
4500		6000	7000	8000	3350/5850	3435/5850	3560/5850
5000		6000	7000	8000	3700/6350	3785/6350	3910/6350
5500		6000	6700	7700	4050/6850	4135/6850	4260/6850
6000		5700	6500	7500	4300/7350	4385/7350	4510/7350

■ 3-stage full free view mast (single tire, load center 600 mm, 4-cylinder type)

maximum fork height (mm)	model	Load capacity (kg)			Overall height [Lowered / Extended] (mm)		
		FH60-2	FH70-2	FH80-2	FH60-2	FH70-2	FH80-2
4000		5500	6400	7100	2400/5385	2400/5385	2605/5350
4300		—	—	7100	—	—	2705/5650
4500		5500	6400	7100	2550/5885	2550/5885	2755/5850
5000		5400	6300	6900	2750/6385	2750/6385	2955/6350
5500		5200	6100	6400	2950/6885	2950/6885	3155/6850
6000		4800	5500	5800	3150/7385	3150/7385	3355/7350

FH60-2 / FH70-2 / FH80-2

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