Major equipment

	•	Standard O: Opti
	F undar	DX50 Series
Not	Engine Engine	Diesel
vet	disc brake	•
	EPA Tier 3/EU Stage IIIA compliant Diesel engine Electronic engine control system	
	Heavy duty High Pressure Common Rail system	
Engine-related		
ē	New combustion system	
Ė	Air to air charge air cooling system	
Ē	Overheat prevention function Auto engine warm-up function	
U	Auto air pre-heat function	
	Large capacity radiator	
_	Dual floating structure	
5	New operator's seat with suspension	
паченну-теганеч	Tiltable steering column	
Ď	Electric forward/reverse lever	
2	Combination switch (turn signal light & light switch)	
Ð	Indicator auto-return mechanism	
8	Wide slip-resistant step	
•	Paper binder at engine hood	
	Meter panel	
,	Hourmeter (6-digit)	
5	Engine cooling water temperature gauge	
ווכוכוס	Torque converter oil temperature gauge	
	Fuel gauge	
_	Lifting interlock lamp	
	Charge warning lamp	
,	Neutral indicator	
וומוכמוסוס	Failure indicator	•
3	Engine failure indicator	•
2	Air cleaner element warning lamp	
	Cooling water level warning lamp	•
	Glow indicator	•
	Large capacity alternator	•
2	Quick auto glow system	•
	Neutral start function	•
2	Auto fuse	•
	Low maintenance battery	•
2	Engine key stop function	•
	Halogen headlight	•
5	Rear combination light	•
	Back-up buzzer	•
	Operator Presence Sensing system	•
	Sedimenter with priming pump	•
	Cyclone air cleaner (double element)	•
	Parking brake with release button	•
	Fully hydrostatic power steering	•
	Steering knob synchronizer function	0
5	Non-asbestos parking brake linings	•
	Key-off lift lock	•
	Floor mat	•
	Assist grip	•
	Overhead guard with front/rear conduits	•
	Rearview mirrors (pair)	•
	Full shield solid-state engine hood	•
	Easy-removable floor panel	•
	Easy-removable radiator cover	•
	Engine hood lock	•
1	Radiator reservoir tank	•
	Jacking points	

Options

Engine & power train related

- Extra fuel filters
- Pre-cleaner
- Upward exhaust mufflerAutomatic transmission
- Automatic transmission
 Steering knob synchronizer

function

- Exterior
- Canvas cabin
- Steel cabinHeater
- Air-conditioner
- Tilt cylinder boots

• Fire extinguisher

• Rear under mirror

Rear working light

Yellow strobe light

Meters & gauges

Tyre-related

Speedmeter with alarm

Mast tilt angle gauge

- Power steering cylinder boots
- Fuel cap with keyFront glass with wiper

Electrical equipmentHeadlights, 2-stage (High-Low)

• Elastic cushion tyre (6.0 & 7.0 ton)

Mast mount type head lights

operator's seat. • Fork positioner with side

• Fork positioner

Mast

is required.

performed.

• Side shifter

• 2-stage free view mast The mast enables a wide view with

excellent forward visibility.

• 2-stage full free view mast This is ideal for sites with height

• 3-stage full free view mast

Attachments

the right and to the left.

fork spread width from the

limitations, where the large free lift

The mast extends in three stages and high level loading is easily

The fork may be shifted sideways

together with its backrest, both to

The operator is able to adjust the

shifter The combination of fork positioner and side shifter.

• Fork positioner with side shift function

This attachment is a fork positioner which has a simultaneous fork movement function to act as a side shifter.

Hinged fork

The fork tilts up/down using its hinge as a fulcrum.

Bale clamp

This attachment is recommended for handling packed pulp or raw cotton. The bale is efficiently held from both sides by the bale clamps.

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www.Komatsu.com



Form No. BR-DX50emi-002

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KOMATSU

DJSGO 6.0/7.0/8.0 ton Series DIESEL FORKLIFTTRUCKS EPA Tier 3/EU Stage IIIA Emission Compliant



"Reducing Total Operating Costs" with Komatsu Innovative Technologies

The fusion of advanced engines and Komatsu's unique hydraulic system enables the new DX50 Series to achieve a significant reduction in the total operation costs and facilitates superior work performance. Our innovative machines challenge the conventional concept of the forklift.

Komatsu's Hydraulic System and the NEW Diesel Engine Reduce the Fuel Consumption

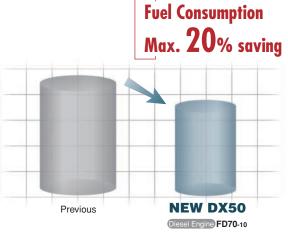
In order to minimize the engine load, the new DX50 Series adopts the Komatsu's latest hydraulic system. The compact 3.3-liter engine features superior performance and achieves up to 20% less fuel consumption.

Komatsu's Latest Hydraulic System Contributes Low Fuel Consumption

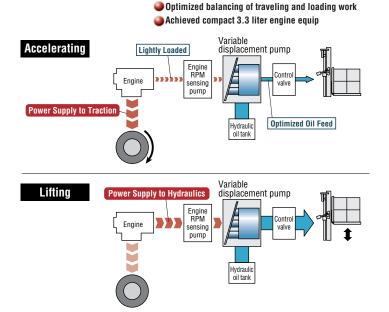
As the engine speed changes, the engine RPMs control pump detects the engine revs. and controls the oil feed to reduce the load on the engine. This hydraulic system offers optimized balancing of traveling and loading work, making it ideal for forklift operations that often put complex demands on the engine such as starting/acceleration while performing lift operations

Optimally controlled hydraulic oil results in;

(8 years)



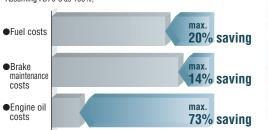
Komatsu tested data, comparison with FD70-8 model The results may vary depending on conditions



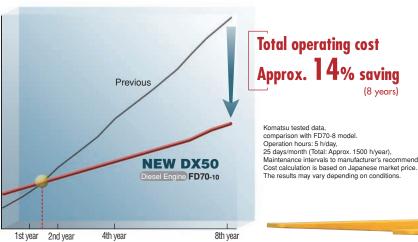
Greatly Reduced Total Operating Costs

The sealed wet disc brakes can withstand about 10,000* hours operation without maintenance and eliminating frequent brake shoes replacements. The engine oil replacement interval has been extended for 300 hours, which reduces oil costs. The reduced maintenance costs and significant fuel saving provide a total operating cost reduction of about 14% over eight years of usage. *A periodical check and oil replacement are necessary. Komatsu genuine engine oil is recommended.

Running cost (Accumulated costs for 8 years) Assuming FD70-8 as 100%;

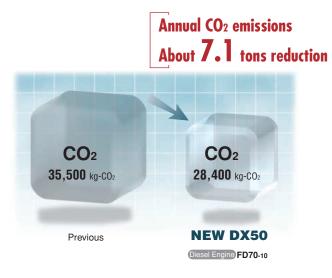


■ Total operating cost (*Image)



The Advanced Technology Offers Reduced CO₂ Emissions

The new DX50 Series feature the SAA4D95LE-5-A engine in combination with Komatsu's efficient hydraulic system. This arrangement enables a reduction in annual CO₂ emissions by about 7.1 tons.



Komatsu tested data, comparison with FD70-8 model. The CO₂ emission coefficient is given in the Common Guidelines of the Japanese METI and MLIT (April 2006) The results may vary depending on conditions





An Advanced Diesel Engine Conforms to the Latest Emission Regulations

Low fuel consumption and low environmental impact are enabled by elimination of excess combustion and the use of the combined technologies of the high pressure common rail system, electronic control system, new combustion system and air to air charge air cooling system.

EPA Tier 3 / EU Stage IIIA Emission Co



SAA4D95LE-5-3,260 cm³ Rated Output: 69.0 kW @ 2,250 min⁻¹ Maximum Torque: 343 Nm @ 1,600 min⁻¹

Superior "Productivity" and "Reliability" **Satisfy Demanding Operations**

Durable Wet Disc Brakes to Withstand Severe Conditions

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The wet disc brake is sealed with oil to block dust penetration, providing durable, water resistant and fade resistant characteristics. Smooth, stable braking provides "Productivity" and "Reliability" in demanding operation.

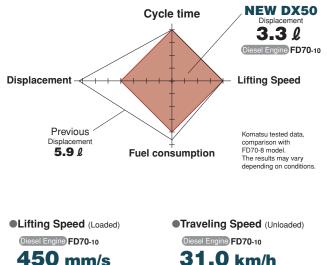


First-class Productivity is Achieved

First-class Cycle Time

The new DX50 Series adopts a compact 3.3-liter engine in conjunction with Komatsu's advanced hydraulic system. This arrangement features high productivity and achieves a first class cycle time.

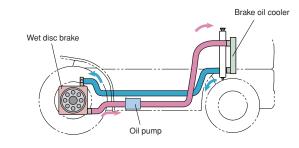
The NEW DX50 Series achieves high productivity equivalent to the previous DX20 Series.



31.0 km/h

A Cooling System to Achieve Increased Braking Stability

The oil in the wet disc brake system is circulated through the brake oil cooler. This mechanism ensures stable braking under a heavy work load and prevents deterioration of the braking force due to raised oil temperatures.



Steady breaking is always achieved.

Overheating of the brakes is prevented.

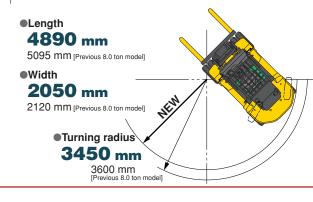
Downtime and maintenance costs are reduced.

Fully Hydrostatic Power Steering for Superb Maneuver

The FHPS (Fully Hydrostatic Power Steering) mechanism facilitates fully stationary steering as well as switchback operations using the small diameter steering wheel. The system has a superior response capability so that the operator can pick up or place cargo flexibly even in a narrow space. In addition, steering knob synchronizer function is available as an option.

The 8.0 ton model offers a significant size reduction

The 8.0 model features a shorter wheelbase and swift mobility while maintaining the power and speed capable of achieving high productivity. The DX50 8.0 ton model is an ideal choice for confined spaces.



Excellent Durability for Demanding Work

Rugged Design with High Rigidity

The high rigidity mast, frame, front and rear axles ensure outstanding reliability even when performing heavy-duty work.

[Mast]

A heavy mast rail profile for excellent rigidity. [Frame]

The successful high rigidity structure of previous models is adopted.

[Front axle] The proven reliable design of previous models is adopted. [Rear axle]

The durability of the power steering cylinders is improved.

Improved Reliabilities for the Hydraulic and **Electrical Systems**

The main hydraulic pipe connectors are face-sealed using



Careful Design Facilitates Inspection and Servicing



Easy Radiator Cleaning



arranged in the same location



Engine Protection for Maintaining the Engine in Top Condition

The electronic engine controls upgrade the performance of the engine protection (fail-safe functions).

- Trouble diagnosis: Engine malfunctions are automatically detected and an alarm lamp blinks.
- Overheating prevention (Diesel) The engine output and RPMs are reduced when the coolant temperature is high.
- Automatic engine warm-up (Diesel): The RPMs are accelerated to warm up the engine at low temperatures



• Automatic air pre-heating (Diesel): The engine is automatically pre-heated when starting it at low temperatures



Engine hood locking provid



Wide Opening Engine Hood

Advanced Design in Pursuit of "Safety and Comfort"

Effective Safety Mechanisms

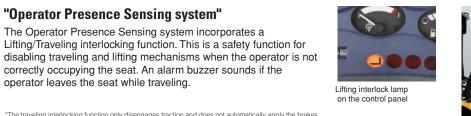
"Operator Presence Sensing system"

operator leaves the seat while traveling.

The Operator Presence Sensing system incorporates a

correctly occupying the seat. An alarm buzzer sounds if the

Lifting/Traveling interlocking function. This is a safety function for



*The traveling interlocking function only disengages traction and does not automatically apply the brakes. *Operator Presence Sensing system: ISO3691-1 compliant

A Neutral Start Function for Preventing a Sudden Start

The engine cannot be started unless the F-R switch is in the neutral position.



eutral indicator for at-a-glance

Parking Brake Alarm

A double action type brake lever vents mishandling

ISO-Compliant Enhanced Overhead Guard for Operator's Protection

Comfortable & Fatigue-Free Operation Even Over Long-Hour Operation

Suspension Seat and Cab Floating Structure Absorb Vibrations

The deluxe suspension seat features improved vibration resistance and reduces the burden on the body. The cab floating structure enables the entire cab to be isolated from the frame and the rubber cushioning of the engine mounts reduces

the vibrations transmitted from the engine and road surface. The overall design concept is operator and load friendly.

· Six-step reclining backrest 170 mm slide distance backward and forward Seat cushion adjustment dial The retractable seat belt



Comfortable Braking with the Organ-type Pedal

The organ-type pedal allows an operator to control braking comfortably without lifting the heel from the floor.



When the operator leaves the seat,

Operator Presence

Sensing system s activated

The Low Noise Design

The low-noise design of the compact engine reduces unpleasant noise levels during operation.

DX50 Series Specifications

	1.2	Model	Manufacturer's Designation				FD60-10	FD70-10	FD80-10
S	1.3	Power Type	Electric, Diesel, Gasoline, LPG, Cable				Diesel	Diesel	Diesel
isti	1.4	Operation Type					Sitting	Sitting	Sitting
Characteristics	1.5	Rated Capacity	Q	Q Rated Capacity			6000	7000	8000
	1.6	Load Center	с				600	600	600
	1.8	Load Distance	x	Front A	xle Center to Fork Face	mm	580	585	635
	1.9	Wheelbase	у			mm	2300	2300	2300
	2.1	Service Weight		,			8555	9245	10910
÷	2.2			Front		kg kg	12950	14330	16565
Weight	2.2.1		Loaded		Rear	kg	1605	1915	2345
	2.3	Axle Loading			Front	kg	3890	3725	4270
	2.3.1				Rear	kg	4665	5520	6640
	3.1	Tyre Type				Pneumatic	Pneumatic	Pneumatic	
	3.2		Front				8.25-15-12PR(I)	8.25-15-14PR(I)	8.25-15-18PR(I
ŝ	3.3	3.3 Tyre Size		Rear			8.25-15-12PR(I)	8.25-15-14PR(I)	8.25-15-18PR(I
Tyres	3.5			Front/Rear (x=driven)			4x/2	4x/2	4x/2
	3.6	Tread, Front	b10			mm	1470	1470	1540
	3.7	Tread, Rear	b11			mm	1640	1640	1640
	4.1	Tilting Angle	α/β	Forwar	d/Backward	degree	6/12	6/12	6/12
	4.1	Mast Height, Lowered	α/β h1	2-stage		mm	2500	2585	2710
	4.2	Std. Free Lift	h2	-	Std. Mast, from Ground	mm	215	2385	220
	4.4	Std. Lift Height	<u> </u>	-		mm	3000	3000	3000
	4.4	Mast Height, Extended	h4	h3 2-stage Std. Mast, from Ground h4 2-stage Std. Mast					
us	4.5 4.7			2-stage	SIU. MASI	mm	4350	4350	4350
		Height, Overhead Guard	h6			mm mm	2440	2440	2440
	4.19	Length, with Std. Forks					4700	4785	4890
sio	4.20	Length, to Fork Face	<u> </u>	L2			3480	3565	3670
Dimensions	4.21	Width, at Tyre	-	b1 Double			1980	1980	2050
- E	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			mm	Class4, A	Class4, A	Class4, A
	4.24	Width, Fork Carriage	b3				1690	1690	1800
	4.31	Ground Clearance	m1			mm	220	220	235
	4.32		m2		ter of Wheelbase	mm	295	295	295
	4.33	Right Angle Stacking Aisle		Plus lo	ad length	mm mm	3830	3935	4085
	4.35	5 Turning Radius		Wa			3250	3350	3450
	5.1	Travel Speed (FWD)	Loaded, 1st/2nd			km/h	11.0/29.0	11.0/29.0	11.0/26.0
			Unloaded, 1st/2nd			km/h	12.0/31.0	12.0/31.0	12.0/31.0
	5.2	Lifting Speed	Loaded			mm/s	500	450	400
e			Unloaded			mm/s	560	500	450
an	5.3	Lowering Speed	Loaded			mm/s	550	480	460
oru			Unloaded			mm/s kN	580	500	500
Performance	5.6	Max. Drawbar Pull		Loaded 1.5 km/h, 3 min rating			44	44	44
۳.	5.8	Max. Gradeability		Loaded 1.5 km/h, 3 min rating			29	29	24
	5.10	Service Brake	· ·	Operation/Type			Foot/Hydraulic	Foot/Hydraulic	Foot/Hydraulic
	5.11	Parking Brake	Oper	Operation/Control			Hand/Mechanical	Hand/Mechanical	Hand/Mechanica
	5.12	Steering	Туре				FHPS	FHPS	FHPS
	6.4	Battery	Volta	Voltage/Capacity at 5-hour rating			24/52	24/52	24/52
	7.1	Make					Komatsu	Komatsu	Komatsu
Ø		Model					SAA4D95LE-5-A	SAA4D95LE-5-A	SAA4D95LE-5-A
I.C Engine	7.2	Rated Output, SAE net				kW	69	69	69
	7.3	Rated RPM					2250	2250	2250
	7.3.1	Max. Torque, SAE net					343@1600	343@1600	343@1600
	7.4	No. of Cylinder/Displacement					4-3260	4-3260	4-3260
	7.6	Fuel Tank Capacity					140	140	140
ŝ	8.2	Relief Pressure for Attachment					18.1	18.1	18.1
Others	8.2.1	Hydraulic tank Capacity				L	115	115	115
	8.7	Transmission					TORQFLOW	TORQFLOW	TORQFLOW

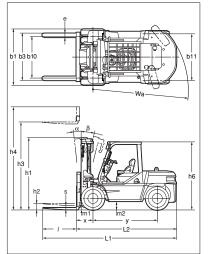
Bight angle stacking aisle width

Right angle stacking alsie width									
	Length of pallet	Width of pallet (mm)							
model	(mm)	800	900	1000	1100	1200	1300	1400	
	800	5050	5050	5050	5050	5050	5050	5050	
	900	5050	5050	5050	5050	5050	5050	5050	
	1000	5050	5050	5050	5050	5050	5050	5050	
6.0t	1100	5050	5050	5050	5050	5050	5050	5050	
	1200	5050	5050	5050	5050	5050	5050	5050	
	1300	5125	5125	5125	5125	5125	5125	5125	
	1400	5225	5225	5225	5225	5225	5225	5225	
	800	5155	5155	5155	5155	5155	5155	5155	
	900	5155	5155	5155	5155	5155	5155	5155	
	1000	5155	5155	5155	5155	5155	5155	5155	
7.0t	1100	5155	5155	5155	5155	5155	5155	5155	
	1200	5155	5155	5155	5155	5155	5155	5155	
	1300	5235	5235	5235	5235	5235	5235	5235	
	1400	5335	5335	5335	5335	5335	5335	5335	
	800	5305	5305	5305	5305	5305	5305	5305	
	900	5305	5305	5305	5305	5305	5305	5305	
	1000	5305	5305	5305	5305	5305	5305	5305	
8.0t	1100	5305	5305	5305	5305	5305	5305	5305	
	1200	5305	5305	5305	5305	5305	5305	5305	
	1300	5385	5385	5385	5385	5385	5385	5385	
	1400	5485	5485	5485	5485	5485	5485	5485	

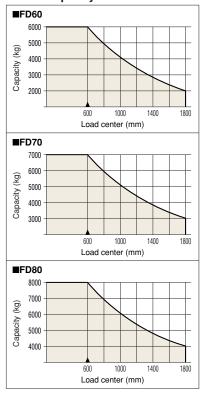
(2-stage free view mast, double tyre, load ce

maximum	L	oad capacity (k	(g)	Overall height [Lowered / Extended*] (mm)			
fork height (mm) model	FD60	FD70	FD80	FD60	FD70	FD80	
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	

■Dimensions



■Load capacity curve



Maximum load and overall height of mast by lifting height

* With standard load backrest