

IMPROVED TRAVEL AND BRAKING PERFORMANCE

Top travel speed and gradeability

These characteristics maximize efficiency on a variety of sites.

Maximum Travel Speed (Unladen)	Maximum Gradeability (Laden)
32.0km/h 5t / 6t / 7t diesel models	35.2% 6t diesel model

Smooth initial acceleration

The transmission is equipped with a modulator valve, as well as an electrical two-speed valve and a conical plate to ensure smooth, yet precise acceleration from a full stop.

Acceleration from 0 - 20m (Unladen)

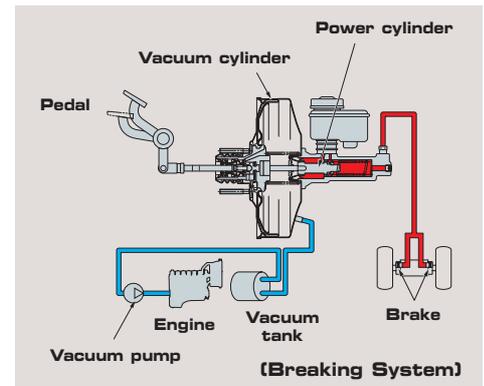
5,9 sec.
6t model

Swift footwork

DX20 series machines have small turning radii and nimble steering, so changes in direction are almost instantaneous. This contributes to rapid cycle times.

HydroMaster brakes for reliable braking power (5.0-7.0ton)

The braking system uses a vacuum-based HydroMaster system as a brake assist unit. Vacuum pressure assists power cylinder operation, and the wheel cylinders operate due to power cylinder pressure, resulting in excellent braking performance. Even if the engine stalls, fluid flows from the vacuum tank to the assist mechanism to guarantee reliable braking power. The eight-ton type employs a full hydraulic power brake.



POWER-BASED PERFORMANCE YOU CAN FEEL THE DIFFERENCE



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Part Number PKBI016EN

The illustrations do not necessarily show the standard version and features of the equipment.

Features and specifications may vary by country and region.

Products and specifications are subject to change without prior notice.

Please contact your Komatsu dealer for detail information.



DX20 SERIES

5 TO 8 TON



Diesel and LPG Engine Lift Trucks

DX20 SERIES

5 TO 8 TON

THE PERFECT MACHINE FOR THE JOB



The lift truck in this photograph is equipped with optional accessories.

MORE

RELIABLE
BETTER DURABILITY

MORE

POWERFUL
BETTER MANEUVERABILITY

MORE

ENJOYABLE
BETTER OPERATING ENVIRONMENT

Our goal is to build forklifts that are ideally suited to your needs. Machines with improved durability. Heavy-duty machines that are designed to strict specifications and that have all the functions you would expect, and then some. We designed the DX20 series to meet stringent requirements for rigorous professional use. This guarantees more efficient operation even in the most challenging environments.

Gas powered model



The LPG powered FG70-7
with 4m FV mast and sideshift

AN ADDED BENEFIT:
THE NEW MODELS
HAVE EVEN CLEANER
EMISSIONS.



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DX20 SERIES

5 TO 8 TON

MORE
RELIABLE
BETTER DURABILITY

THE MOST RIGID MAST IN ITS CLASS



Greater Rigidity

(Compared with previous
Komatsu models)

70%

Mast

We've increased the cross-sectional area of the mast section, used high strength steel and strengthened the tilt cylinder brackets.

These improvements substantially raise the rigidity of the mast.

Front axle

We used a single maximum thickness plate for the connection between the front axle and the chassis, and increased the lateral plate thickness, significantly boosting overall rigidity.

Front Wheel guards

For improved rigidity the wheel guards are formed from one piece of high strength steel.



Rear axle

By strengthening each area, we've improved the rigidity of the entire axle.

A RELIABLE HYDRAULIC SYSTEM EVEN UNDER EXTREME CONDITIONS



High-capacity twin-cooler system

The system adopts an air cooled oil cooler and a water cooled torque converter oil cooler.

Both have high coolant capacities.

This means they can perform reliably, keeping hydraulic temperatures low even under severe operating conditions.

The result is a reliable, long life hydraulic system.

(5t - 7t machines have a water & air cooled torque converter).

Tandem flow divider with combined flow regeneration circuit (diesel model)

The DX20 series has a hydraulic regeneration circuit with a tandem pump to minimise the rise in hydraulic oil temperature, even under arduous operating conditions.

The 8t model features a heavy duty cast metal pump to further improve cooling.



Spin-on hydraulic oil filter



Transmission line filter

Maintaining oil purity

The spin-on hydraulic oil filter prevents dirt ingress in the hydraulic system improving system reliability and ease of maintenance.

The transmission line filter also prevents damage to the drive train.

Protected tilt cylinder piping

Tilt cylinder piping is located inboard offering protection from damage in the event of a collision or falling load.

Protected brake piping

For protection, brake piping is routed inside the lower frame members.



CAREFUL DESIGN EXTENDING TO OTHER CHASSIS AREAS



Integrated bonnet

Designing the bonnet as an integrated unit has improved durability, the rounded contours shed water preventing corrosion.



Standard halogen lamps

For maximum illumination, bright white long-life halogen lamps are standard on the DX20 series. Guards protect the lamp from damage.

**A RIGID
STRUCTURE
INITIAL
EVIDENCE
OF A RELIABLE
MACHINE**



Alternator with internal IC regulator

An IC maintains steady regulator voltage, so that a stable voltage is supplied throughout the truck. The IC also protects the circuit from damage caused by current surges.



Standard sedimenter (diesel model)

By separating water from the fuel the sedimenter fuel filter improves injection pump reliability. (5t - 7t).

The lift truck in this photograph is equipped with optional accessories.

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DX20 SERIES

5 TO 8 TON

MORE POWERFUL BETTER MANEUVERABILITY

POWERFUL AND CLEAN



S6D102E

The highest displacement in its class -FD50/FD60/FD70

Having the highest displacement in its class together with a turbocharger, these engines provide overwhelming power and superb driving performance. The engines re-entrant type fuel chamber guarantees an ideal combustion performance that conforms to the second stage regulations for emission gases in North America and Europe. Being friendly both to people and the environment.

Rated output

77Kw
@2250rpm

Piston displacement

5880 cm²

SA6D102E Diesel engine

Increased power with an after-cooler-FD80

The S6D102E engine is equipped with a water cooled after cooler. This boosted engine torque enables a more powerful drive over the entire range of operations enabling quick, light operation of heavy loading. The end result being increased work efficiency. This engine is compliant with EPA Tier 2/EU Stage II Emissions regulations and realizes both high power and clean emissions.

TB42 LPG Gas Engine

Powerful, yet silent-FG50/FG60/FG70

In addition to hi power and excellent fuel efficiency, the crankshaft has a eight-counterweight balance to minimise engine noise and vibration. The plastic radiator fan improves heat balance and reduces noise. The fitted vacuum pump supplies the braking system. LPG powered gas engine.

Rated output

96Kw
@2250rpm

Piston displacement

5880 cm²

Rated output

66Kw
@2300rpm

Piston displacement

4169 cm²

SUPERIOR LOADING AND UNLOADING FOR HIGHER OPERATING EFFICIENCY

High-speed fork lifting and lowering

High torque guarantees that the engine is ideally suited for forklift operation. The use of a combined flow regeneration circuit with tandem flow divider and a cast tandem pump maximizes lifting speed.

Lifting Speed (Unladen) Lowering Speed (Unladen)

560mm/s 580mm/s
5t / 6t diesel models



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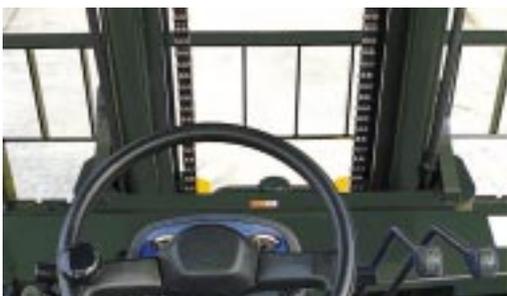
MORE ENJOYABLE BETTER OPERATING ENVIRONMENT

EXCELLENT FRONT AND REAR VISIBILITY



Superb forward visibility
Elimination of the intermediate mast cross member improves visibility when loading. Masts are painted unobtrusive grey and the forks hi-visibility yellow.

Outstanding fork tip visibility
Use of a compact instrument panel in the correct location and fitment of a twin spoke steering wheel all contribute to improved visibility of the fork tips.



Flat floor, easy on the feet

Wide anti slip step

RELIABLE, LIGHT-TOUCH OPERATING SYSTEM



- 1-Second forward gear
- 2-First forward gear
- 3-Neutral
- 4-First reverse gear
- 5-Second reverse gear

Electrically controlled forward-reverse direction lever provides fingertip control

Reducing the force required to shift gear selection by 60% has enabled fingertip control to change forward gears whilst keeping both hands on the steering wheel minimising operator fatigue on long shifts.



Combination switch for head lamp and directional indicator (Auto-return)

As in a car, switches for the lights and direction indicators are on the same lever and cancel automatically.

Highly visible full instrumentation console



Meters

- 1 Hourmeter
- 2 Water temperature gauge
- 3 Torque converter oil temperature gauge
- 4 Needle-type fuel gauge

Safety indicator

- 5 Brake fluid level warning lamp
- 6 Engine oil pressure warning lamp
- 7 Battery discharge warning lamp
- 8 Ignition lamp
- 9 Air cleaner element warning lamp
- 10 Coolant level warning lamp
- 11 Sedimenter warning lamp (diesel model)
- 12 Handbrake lamp

EXCELLENT OPERATOR-MACHINE INTERFACE

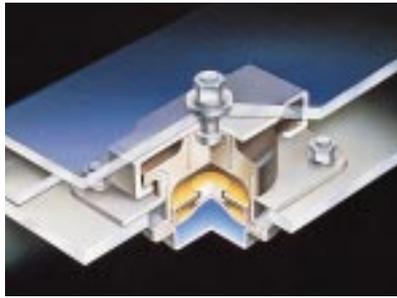


Large easy to reach grip handles

Rounded shaped pedals

MAXIMIZING OPERATOR COMFORT

LOW NOISE AND VIBRATION FOR A COMFORTABLE OPERATING ENVIRONMENT



Hydraulic Suspension Cab (HSC) for a soft ride

The HSC system isolates the entire cabin space from the chassis, greatly reducing operating vibrations.

This system is particularly effective when fitting Komatsu pneumatic section solids puncture proof tyres.



Adjustable de-luxe semi suspension operators seat

With adjustment functions for reclining, front-rear slide and suspension, this seamless blow-formed seat offers excellent comfort, as well as durability. Other features include a retracting seat belt and a rear document holder.



Extremely quiet

The combination of an integrated bonnet, a low-noise engine and various other noise-suppressing equipment succeeds in greatly reducing the noise that reaches the operator's ears.



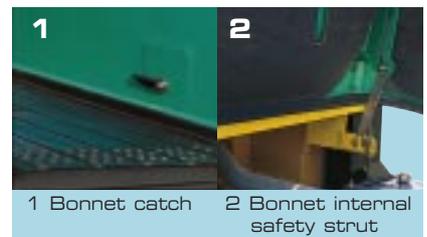
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Diesel model (5t - 7t)

69dB(A)

reaches the operator's ears (during low idle)

ENSURING A HIGH LEVEL OF SAFETY



1 Bonnet catch 2 Bonnet internal safety strut

Bonnet catch and internal safety strut

The bonnet lock prevents the bonnet from lifting during travel. An internal bonnet strut prevents accidental closure.



Bonnet catch

You can open the bonnet without having to tilt back the steering wheel, as the steering wheel automatically retracts.

Angled bonnet sides

The sides of the bonnet are angled to make inspections easier. The bonnet is a single unit, beginning at the point where it hinges away from the floor plate. This avoids the need to remove the floor plate before servicing.

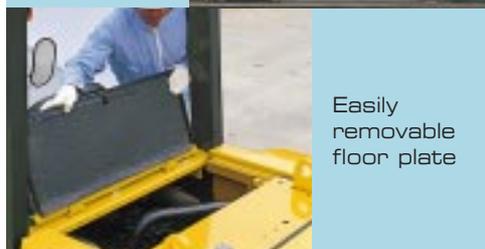
EASY MAINTENANCE

Designed to simplify maintenance

The floor plate and radiator cover can be removed at a single touch. (5t - 7t)



Removable radiator cover



Easily removable floor plate

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