

KOMATSU®

D51EX-24

D51PX-24

Tier 4 Final Engine

CRAWLER DOZER

D51



Photos may include optional equipment.

NET HORSEPOWER

131 HP @ 2200 rpm
98 kW @ 2200 rpm

OPERATING WEIGHT

D51EX-24: 30,203 lb 13700 kg
D51PX-24: 31,262 lb 14180 kg

BLADE CAPACITY

Power Angle Tilt (PAT) Dozer:
D51EX-24: 2.9 yd³ 2.22 m³
D51PX-24: 3.35 yd³ 2.56 m³

WALK-AROUND

D51EX/PX-24



Photos may include optional equipment.

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OUTSTANDING PRODUCTIVITY & FUEL ECONOMY

Power and Economy modes:

Power mode provides full power when needed. Use Economy mode for light dozing and extra fuel economy.

Precise engine and efficient hydrostatic pump control technology improves operational efficiency and lowers fuel consumption.

SAA4D107E-7 water cooled variable geometry turbocharged and aftercooled 4.5 liter diesel engine provides excellent fuel economy. This engine is EPA Tier 4 Final emissions certified.

Komatsu Diesel Oxidation Catalyst (KDOC) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx using passive regeneration 100% of the time. No active or manual regeneration is required.

New Komatsu Auto Idle Shutdown helps reduce excessive idle time.

Rear view monitoring system (standard) can be auto synced to reverse travel for improved operator awareness.

Advanced diagnostic system continuously monitors machine operation and vital systems to identify machine issues, assists with troubleshooting, and minimizes down time.

Single pedal can be programmed to function as either a brake or decelerator.

Efficient Cooling System:

- Electronically controlled, hydraulically-driven fan can be easily reversed through the monitor
- Rear hinged radiator guard with gas assisted lift cylinders opens easily for cleaning
- Side-by-side single plane coolers help reduce chances of plugging and simplify maintenance

KOMTRAX® sends information to a secure website, including machine location, SMR, error codes, cautions, maintenance items, fuel usage, fuel levels, DEF levels, ambient conditions, operator identification, and much more.

New Operator Identification System (standard) provides KOMTRAX data for machine operation and applications for up to 100 individual ID codes.

Integrated ROPS cab features:

- Large, quiet, pressurized cab
- Exceptional visibility with super slant nose design and integrated ROPS structure
- Heated air-ride seat with high capacity suspension (standard)
- Standard aux jack and (2) 12V power convertors

Improved durability:

- Heavy-plate steel used for the nose and the hydraulic and fuel tanks
- Dozer frame with full steel castings
- Komatsu designed and manufactured components

Self-adjusting idler support provides constant and even idler tension, reducing vibration and increasing undercarriage life.



Photos may include optional equipment.

Standard Parallel Link Undercarriage System (PLUS) provides up to double the wear life and lowers repair and maintenance costs compared to a standard undercarriage design.

New Triple Labyrinth Final Drive Shield design provides additional protection for the final drive floating seals.

Power Angle Tilt (PAT) dozer with manually adjustable blade pitch increases productivity in a variety of applications.

Complete operator blade control:

- Palm Command Control System (PCCS)
- Electronic Proportional Control (EPC)
- Blade angle switch
- Three blade control settings
- Up to 5 individual operator settings can be stored

Efficient Hydrostatic Transmission with electronic control:

- Customizable quick shift (3 speed) settings for the operator
- Variable speed selection (20 speeds)
- Low speed matching technology (larger displacement pumps/efficient engine speed)
- HST control system helps reduce fuel consumption and improves maneuverability

Large color monitor:

- Easy-to-read and use large 7" high-resolution multi-color LCD monitor
- Ecology guidance
- Easy-to-use onboard diagnostics that don't require a laptop
- Real-time DEF monitoring so the operator can see actual DEF levels
- Five customizable operator settings for machine control

Convenient shovel holder (standard)



ENGINE

Model.....Komatsu SAA4D107E-7*
 Type4-cycle, watercooled, direct injection
 Aspiration.....Variable geometry, turbocharged,
 air-to-air aftercooled
 Number of cylinders..... 4
 Bore x stroke..... 107 mm x 124 mm **4.21" x 4.88"**
 Piston displacement..... 4.5 ltr **275 in³**
 Governor All-speed, electronic
 Horsepower
 SAE J1995.....Gross 99 kW **133 HP**
 ISO 9249 / SAE J1349.....Net 98 kW **131 HP**
 Hydraulic fan at maximum speedNet 91 kW **122 HP**
 Rated rpm.....2200 rpm
 Fan drive typeHydraulic
 Lubrication system
 Method..... Gear pump, force lubrication
 Filter..... Full-flow



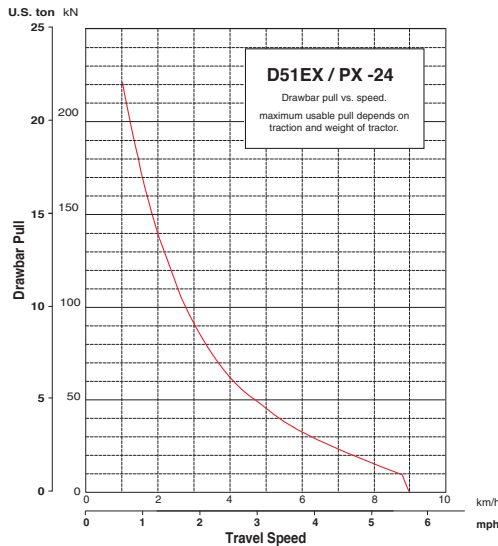
HYDROSTATIC TRANSMISSION

Dual-path, hydrostatic transmission provides infinite speed changes up to 9.0 km/h **5.6 mph**. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs. Travel control lock lever and neutral switch.

Travel speed (quick shift mode)*	Forward	Reverse
1st	0-3.4 km/h 0-2.1 mph	0-4.1 km/h 0-2.5 mph
2nd	0-5.6 km/h 0-3.5 mph	0-6.5 km/h 0-4.0 mph
3rd	0-9.0 km/h 0-5.6 mph	0-9.0 km/h 0-5.6 mph

Travel speed (variable mode)	Forward	Reverse
	0-9.0 km/h 0-5.6 mph	0-9.0 km/h 0-5.6 mph

*Quick shift speeds are adjustable in the monitor.



FINAL DRIVES

In-shoe mounted, axial-piston-type travel motors, with integrated two-stage planetary gear reduction. Compact, in-shoe mount reduces risk of damage by debris. Bolt-on sprocket ring with triple labyrinth seal design.



STEERING SYSTEM

Palm Command Control System (PCCS) joystick control for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it back reverses the machine. Simply tilt the joystick to the left or right to make a turn. Tilting the joystick fully to the left or right activates counter-rotation.

Hydrostatic Transmission (HST) provides smooth, powerful turns. Fully electronic control enables smooth control that can be adjusted in the monitor. The PCCS utilizes shift buttons to increase and decrease speed.

Minimum turning radius*
 D51EX-24 2.4 m **94"**
 D51PX-24 2.6 m **102"**

*As measured by track marks on the ground at pivot turn.



UNDERCARRIAGE

Suspension..... Rigid type
 Track roller frame Monocoque, large section, durable construction
 Rollers & idlers Lubricated track rollers

Sealed & lubricated track...Track tension easily adjusted w/grease gun

	D51EX-24	D51PX-24
Number of track rollers (each side)	7	7
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	44	44
Grouser height	mm in 55 2.17"	55 2.17"
Shoe width (standard)	mm in 560 20"	710 25"
Ground contact area	cm ² 30750	38980
	in² 4,766	6,042
Ground pressure (with dozer, ROPS cab)	kPa 43.7	35.7
	kgf/cm ² 0.44	0.36
	psi 6.34	5.17
Track gauge	mm ft.in 1790 5'4"	1880 5'11"
Length of track on ground	mm ft.in 2745 9'0"	2745 9'0"



SERVICE REFILL CAPACITIES

Coolant 37 ltr **9.8 U.S. gal**
 Fuel tank 270 ltr **71.3 U.S. gal**
 Engine oil 16 ltr **4.2 U.S. gal**
 Hydraulic tank 64 ltr **17 U.S. gal**
 Final drive (each side)..... 5.5 ltr **1.5 U.S. gal**
 Diesel Exhaust Fluid (DEF) tank 20.5 ltr **5.42 U.S. gal**



OPERATING WEIGHT (APPROXIMATE)

Tractor weight:

Including ROPS cab, U frame for Power Angle Tilt (PAT) dozer, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.
 D51EX-24 12050 kg **26,565 lb**
 D51PX-24 12400 kg **27,337 lb**

Operating weight:

Including Power Angle Tilt (PAT) dozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, hydraulic control unit, coolant, and full fuel tank.
 D51EX-24 13700 kg **30,203 lb**
 D51PX-24 14180 kg **31,262 lb**

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AD11(Electronic View Only)

11/16 (EV-1)

KOMATSU®

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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