

D51EXi-22 D51PXi-22

Tier 3 Engine

3D GNSS MACHINE CONTROL

NET HORSEPOWER 130 HP @ 2200rpm 97 kW @ 2200rpm

OPERATING WEIGHT

D51EXi-22 12420 kg **27,381 lb** D51PXi-22 13180 kg **29,057 lb**

BLADE CAPACITY

3.5–3.8 yd³ 2.7–2.9 m³





SPECIFICATIONS



ENGINE

•	
Model	Komatsu SAA6D107E-1*
Туре	4-cycle, water-cooled, direct injection
Aspiration	Turbocharged, air-to-air aftercooled
•	6
Bore x stroke	107 mm x 124 mm 4.21" x 4.88"
Piston displacement	6.69 ltr 408 in³
Governor	All-speed, electronic
Horsepower	
SAE J1995	Gross 99 kW 133 HP
ISO 9249 / SAE J134	9Net 97 kW 130 HP
Hydraulic fan at maxi	mum speed Net 90 kW 120 HP
Rated rpm	2200 rpm
Fan drive type	Hydraulic (reversible)
Lubrication system	
Method	Gear pump, force lubrication
Filter	Full-flow

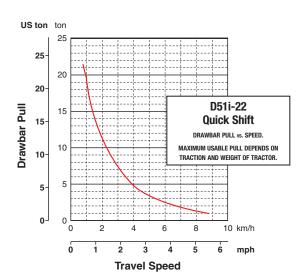
^{*}EPA Tier 3 emissions certified



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





FINAL DRIVES

Two-stage planetary gear integrated into axial piston travel motors. Compact in-shoe mount reduces risk of damage by debris. Bolt-on sprocket segments for easy replacement.



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 rearward 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) eliminates steering clutches and brakes, providing smooth powerful turns. Fully electronic control enables smooth control. The PCCS utilizes shift buttons to increase and decrease speed.

Minimum turning radius*	
D51EXi-22	2.39 m 7'10"
D51PXi-22	2.62 m 8'7"

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



UNDERCARRIAGE

Suspension	Oscillating equalizer bar and pivot shaft
Track roller frame	Monocoque, large section,
	durable construction
Rollers and idlers	Lubricated track rollers
Lubricated tracks	

Unique seals help prevent entry of foreign abrasive material into pin to bushing clearances for long service life.

Parallel Link Undercarriage System (PLUS)

Increased component size and strength, and rotating bushing design provide extended wear life and lower maintenance.

		D51EXi-22	D51PXi-22
Number of track rollers (each sid	le)	7	7
Type of shoes (standard)		Single grouser PLUS	Single grouser PLUS
Number of shoes (each side)		44	44
Grouser height	mm in	55 2.2"	5.5 2.2"
Shoe width (standard)	mm in	560 22"	710 28"
Ground contact area	cm ²	30643 4,752	38980 6,042
Ground pressure	kPa	39.7	33.2
(with dozer, ROPS cab)	kgf/cm ²	0.41	0.34
	psi	5.76	4.81
Track gauge	mm ft.in	1790 5'10"	1880 6'2"
Length of track on ground	mm ft.in	2736 9'0"	2736 9'0"





SERVICE REFILL CAPACITIES

Coolant	9.3 U.S. gal
Fuel tank 270 ltr	71.3 U.S. gal
Engine oil	5.3 U.S. gal
Hydraulic tank63 ltr	16.6 U.S. gal
Final drive (each side)4.0 ltr	1.1 U.S. gal



OPERATING WEIGHT

Tractor weight:

Including ROPS cab, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.

D51EXi-22...... 10920 kg **24,074 lb** D51PXi-22......11580 kg **25,530 lb**

Operating weight:

Including power angle tilt dozer, ROPS cab, operator, standard equipment, rated capacity of lubricant, coolant, and full fuel tank.

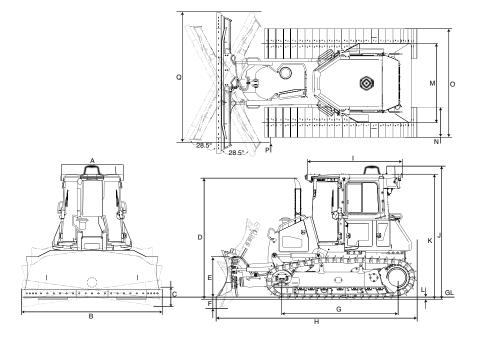
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DIMENSIONS

	D51EXi-22		D51PXi-22	
Α	1280 mm	4'2"	1280 mm	4'2"
В	3045 mm	10'0"	3350 mm	11'0"
В*	3350 mm	11'0"	_	
С	425 mm	1'5"	467 mm	1'6"
C*	505 mm	1'8"	_	
D	2890 mm	9'6"	2890 mm	9'6"
Е	1010 mm	3'4"	1010 mm	3'4"
F	459 mm	1'6"	459 mm	1'6"
G	2736 mm	9'0"	2736 mm	9'0"
Н	4800 mm	15'9"	4800 mm	15'9"
1	2245 mm	7'4"	2245 mm	7'4"
J	3182 mm	10'5"	3182 mm	10'5"
K	3002 mm	9'10"	3002 mm	9'10"
L	55 mm	2.2"	55 mm	2.2"
M	1790 mm	5'10"	1880 mm	6'2"
N	560 mm	1'10"	710 mm	2'4"
0	2350 mm	7'9"	2590 mm	8'6"
Р	26 mm	1"	43 mm	2"
P*	161 mm	6.3"	_	
Q	2859 mm	9'5"	3038 mm	10'0"
Q*	3038 mm	10'0"	_	

*Wide blade for D51EXi-22



0511-22

SPECIFICATIONS



HYDRAULIC SYSTEM

Closed-center Load Sensing System (CLSS) designed for precise and responsive control and for efficient simultaneous operation.

Hydraulic control unit:

All spool control valves externally mounted remote to the hydraulic tank. Piston-type hydraulic pump with capacity (discharge flow) of 99 ltr/min **26.2 U.S. gal/min** at rated engine rpm.

	Number of cylinders	Bore
Blade lift	2	90 mm 3.54"
Blade tilt	1	100 mm 3.94"
Blade angle	2	90 mm 3.54"

Hydraulic oil capacity (refill):

Power angle tilt dozer63 ltr 16.6 U.S. gal

Control valves:

3-spool control valve for Power Angle Tilt dozer Positions:

Blade lift	Raise, hold, lower, and float
Blade tilt	Right, hold, and left
Blade angle	Right, hold, and left

Additional control valve required for ripper

Positions:

Ripper lift......Raise, hold, and lower



DOZER EQUIPMENT

Blade capacities are based on the SAE recommended practice J1265. Use of high tensile strength steel in moldboard for strengthened blade construction.

	Overall Length With Dozer mm ft.in	Blade Capacity m³yd³	Blade Width x Height mm ft.in	Max. Lift Above Ground mm ft.in	Max. Drop Below Ground mm ft.in	Max. Tilt Adjustment mm ft.in	Blade Angle
D51EXi-22 PAT	4800	2.7	3045 x 1110	1107	456	459	28.5°
Standard Blade	15'9"	3.5	10'0" x 3'8"	3'8"	1'6"	1'6"	20.0
D51EXi-22 PAT	4800	2.9	3350 x 1110	1107	456	505	28.5°
Wide Blade	15'9"	3.8	11'0" x 3'8"	3'8"	1'6"	1'8"	20.0
D51PXi-22 PAT	4800	2.9	3350 x 1110	1107	456	505	00.50
Standard Blade	15'9"	3.8	11'0" x 3'8"	3'8"	1'6"	1'8"	28.5°