



ENGINE

Model.....Komatsu SAA6D107E-1*
 Type 4-cycle, water-cooled, direct injection
 Aspiration..... Turbocharged, air-to-air aftercooled
 Number of cylinders..... 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 J1349Net 97 kW **130 HP**
 Hydraulic fan at maximum speed Net 90 kW **120 HP**
 Rated rpm.....2200 rpm
 Fan drive typeHydraulic (reversible)
 Lubrication system
 Method..... Gear pump, force lubrication
 Filter..... Full-flow

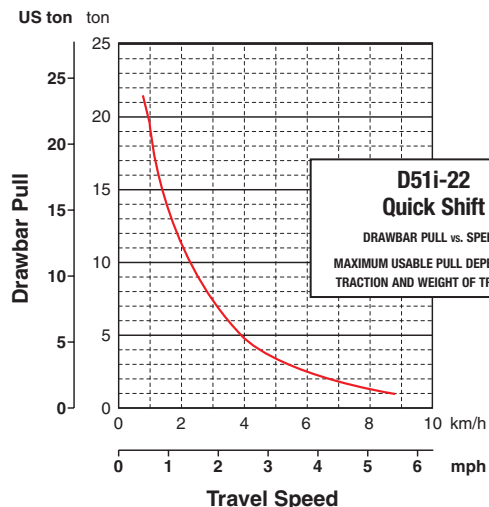
*EPA Tier 3 emissions certified



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 side)	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	cm² 30643 in² 4,752	38980 6,042
Ground pressure (with dozer, ROPS cab)	kPa 39.7 kgf/cm² 0.41 psi 5.76	33.2 0.34 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	35 ltr	9.3 U.S. gal
Fuel tank	270 ltr	71.3 U.S. gal
Engine oil	20 ltr	5.3 U.S. gal
Hydraulic tank	63 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.

D51EXi-22..... 12420 kg **27,381 lb**

D51PXi-22..... 13180 kg **29,057 lb**



DIMENSIONS

	D51EXi-22		D51PXi-22	
A	1280 mm	4'2"	1280 mm	4'2"
B	3045 mm	10'0"	3350 mm	11'0"
B*	3350 mm	11'0"	—	—
C	425 mm	1'5"	467 mm	1'6"
C*	505 mm	1'8"	—	—
D	2890 mm	9'6"	2890 mm	9'6"
E	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"
H	4800 mm	15'9"	4800 mm	15'9"
I	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"
O	2350 mm	7'9"	2590 mm	8'6"
P	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

Ground clearance..... 390 mm **15.4"**

