

Specifications

ENGINE

Model Komatsu SAA6D107E-1
 Common rail direct injection, water-cooled,
 emissionised, turbocharged, after-cooled diesel

Engine power
 at rated engine speed 2.200 rpm
 ISO 14396 99,0 kW / 133 HP
 ISO 9249 (net engine power) 97,0 kW / 130 HP

No. of cylinders 6
 Bore x stroke 107 x 124 mm
 Displacement 6,69 ltr
 Governor All-speed, electronic
 Fan drive type Hydraulic
 Lubrication system
 Method Gear pump, force lubrication
 Filter Full flow

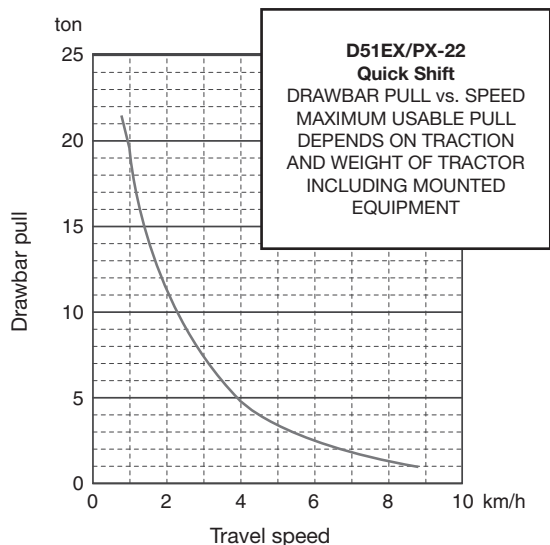
HYDROSTATIC TRANSMISSION

Dual-path, hydrostatic transmission provides infinite speed changes up to 9,0 km/h. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs. Travel control lock lever and neutral switch.

MAX. TRAVEL SPEEDS

Quick shift mode	Forward	Reverse
1st	0 - 3,4 km/h	0 - 4,1 km/h
2nd	0 - 5,6 km/h	0 - 6,5 km/h
3rd	0 - 9,0 km/h	0 - 9,0 km/h

Variable speed mode	Forward	Reverse
	0 - 9,0 km/h	0 - 9,0 km/h



FINAL DRIVE

Type Planetary gear, double-reduction
 Sprocket Segmented sprocket teeth
 are bolt-on for easy replacement

STEERING SYSTEM

Type Hydrostatic Steering System (HST)
 Steering control PCCS-lever
 Service brakes Hydraulic dynamic brake, pedal-controlled
 Minimum turning radius (counter-rotation)
 D51EX-22 1,81 m
 D51PX-22 1,89 m
 As measured by track marks on the ground.

UNDERCARRIAGE

Suspension Oscillating equaliser bar and pivot shaft
 Track roller frame Monocoque, large section,
 durable construction
 Tracks PLUS link assembly
 Track tension Combined spring and hydraulic unit
 Number of shoes (each side) 44
 Grouser height (single grouser) 54 mm
 Track rollers (each side) 7
 Carrier rollers (each side) 2
 Shoe width (standard)
 D51EX-22 560 mm
 D51PX-22 710 mm
 Ground contact area
 D51EX-22 30.744 cm²
 D51PX-22 38.979 cm²
 Ground pressure
 D51EX-22 0,41 kg/cm²
 D51PX-22 0,34 kg/cm²

OPERATING WEIGHT (APPR.)

Including PAT blade, steel cab, operator, rated capacity of
 lubricant, coolant, and full fuel tank.
 D51EX-22 12.710 kg
 D51PX-22 13.100 kg

SERVICE REFILL CAPACITIES

Fuel tank 270 ltr
 Radiator 35 ltr
 Engine oil 20 ltr
 Final drive (each side) 4,0 ltr
 Hydraulic tank 63 ltr

ENVIRONMENT

Engine emissions Fully complies with EU Stage IIIA
 and EPA Tier III exhaust emission regulations

Noise levels
 LwA external 106 dB(A) (2000/14/EC Stage II)
 LpA operator ear 80 dB(A) (ISO 6396 dynamic test)

Vibration levels (EN 12096:1997)*
 Hand/arm ≤ 2,5 m/s² (uncertainty K = 1,32 m/s²)
 Body ≤ 0,5 m/s² (uncertainty K = 0,258 m/s²)

* for the purpose of risk assessment under directive 2002/44/EC,
 please refer to ISO/TR 25398:2006.

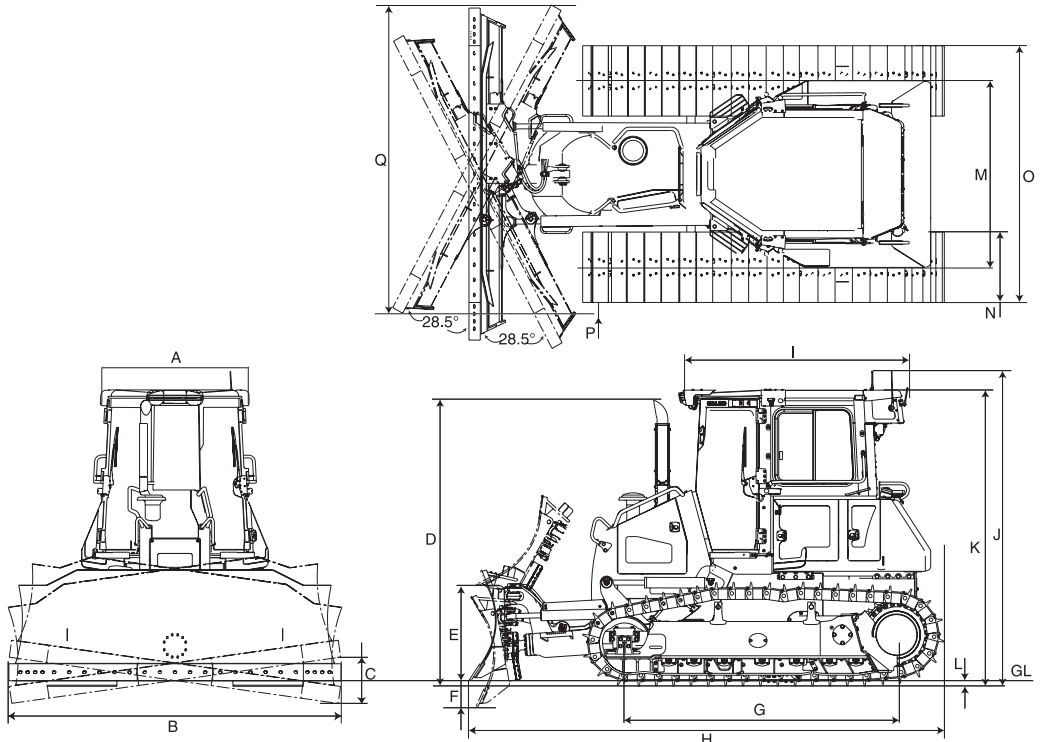
DIMENSIONS

	D51EX-22	D51PX-22
A	1.280 mm	1.280 mm
B*	3.045 mm	N/A
B**	3.350 mm	3.350 mm
C*	459 mm	N/A
C**	505 mm	505 mm
D	2.885 mm	2.885 mm
E	1.107 mm	1.107 mm
F	461 mm	461 mm
G	2.745 mm	2.745 mm
H	4.800 mm	4.800 mm
I	2.245 mm	2.245 mm
J	3.177 mm	3.177 mm
K	2.997 mm	2.997 mm
L	55 mm	55 mm
M	1.790 mm	1.880 mm
N	560 mm	710 mm
O	2.350 mm	2.590 mm
P*	4 mm	N/A
P**	136 mm	16 mm
Q*	2.725 mm	N/A
Q**	2.990 mm	2.990 mm

* 2,7 m³ blade (D51EX-22 only)

** 2,9 m³ blade

2,7 m³ blade foldable (D51EX-22 only): transport width 2.550 mm



Ground clearance: 385 mm

HYDRAULIC SYSTEM

Type CLSS (closed-centre load sensing system)

All spool valves externally mounted beside the hydraulic tank.

Maximum pump flow 99 ltr/min

Relief valve setting 274,6 bar

Spool control valve positions

Blade lift Raise, hold, lower, and float

Blade tilt Right, hold, and left

Additional control valve positions for ripper

Ripper lift Raise, hold, and lower

Hydraulic cylinders Double-acting, piston

No. of cylinders × bore

Blade lift 2 × 90 mm

Blade tilt 1 × 100 mm

Blade angle 2 × 90 mm

Ripper lift 1 × 110 mm

RIPPER EQUIPMENT

Multishank ripper

Type Hydraulically controlled parallelogram ripper

No. of shanks 3

Weight (including hydraulic control unit) 850 kg

Beam length 1.550 mm

Maximum lift above ground 378 mm

Maximum digging depth 428 mm

DOZER EQUIPMENT

	Overall length with dozer	Blade width × height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment	Blade angle
2,7 m ³ PAT blade (EX)	4.800 mm	3.045 × 1.110 mm	1.107 mm	461 mm	459 mm	28,5°
2,7 m ³ PAT blade foldable (EX)	4.800 mm	3.045 × 1.110 mm	1.107 mm	461 mm	459 mm	28,5°
2,9 m ³ PAT blade (EX)	4.800 mm	3.350 × 1.110 mm	1.107 mm	461 mm	505 mm	28,5°
2,9 m ³ PAT blade (PX)	4.800 mm	3.350 × 1.110 mm	1.107 mm	461 mm	505 mm	28,5°

Blade capacities are based on the SAE recommended practice J1265.