SPECIFICATIONS

ENGINE

Model	Komatsu SAA6D107E-1
Type	Water-cooled, 4-cycle, direct injection
Aspiration	Turbocharged and air-to-air aftercooled
Number of cylinders	6
Bore	107 mm **4.21"**
Stroke	124 mm **4.88"**
Piston displacement	6.69 ltr **408 in³**
Power rating	
Gross (SAEJ1995)	116 kW **155 HP** @ 2000 rpm
Net (ISO 9249/SAEJ1349)	110 kW **148 HP** @ 2000 rpm
Fan drive type	Mechanical
Governor	All-speed control, electronic

EPA Tier 3 and EU Stage 3A emissions certified.

HYDRAULICS

Type . . HydrauMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves

Number of selectable working modes 4

Main pump:

Type	Variable displacement piston type
Pumps for	Boom, arm, bucket, swing, and travel circuits
Maximum flow	428 ltr/min **113 U.S. gal**/min
Supply for control circuit	Self-reducing valve

Hydraulic motors:

Travel	2 x axial piston motor with parking brake
Swing	1 x axial piston motor with swing holding brake

Relief valve setting:

Implement circuits	37.3 MPa	380 kgf/cm²	**5,400 psi**
Travel circuit	37.3 MPa	380 kgf/cm²	**5,400 psi**
Swing circuit	28.4 MPa	290 kgf/cm²	**4,120 psi**
Pilot circuit	3.2 MPa	33 kgf/cm²	**470 psi**

Hydraulic cylinders:

(Number of cylinders – bore x stroke x rod diameter)

Boom	2–120 mm x 1385 mm x 85 mm	**4.7" x 54.5" x 3.3"**
Arm	1–135 mm x 1490 mm x 95 mm	**5.3" x 58.7" x 3.7"**
Bucket	1–115 mm x 1120 mm x 80 mm	**4.5" x 44.1" x 3.2"**

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5700 mm **18'8"** one-piece boom, 2925 mm **9'7"** arm, SAE heaped 0.80 m³ **1.05 yd³** backhoe bucket, operator, lubricant, coolant, full fuel tank, and the standard equipment.

Shoes		Operating Weight		Ground Pressure	
mm	in	kg	lb	kg/cm²	psi
600 mm	**24"**	22630	**49,900**	0.48	**6.83**
700 mm	**28"**	22900	**50,490**	0.41	**5.83**
800 mm	**31.5"**	23180	**51,110**	0.37	**5.28**

DRIVES AND BRAKES

Steering control		Two levers with pedals
Drive method		Hydrostatic
Maximum drawbar pull		202 kN 20600 kgf **45,410 lb**
Travel motor		Axial piston motor, in-shoe design
Reduction system		Planetary gear type, double reduction
Gradeability		70%, 35°
Maximum travel speed: (Auto-Shift)	High	5.5 km/h **3.4 mph**
	Mid	4.1 km/h **2.5 mph**
	Low	3.0 km/h **1.9 mph**
Service brake		Hydraulic lock
Parking brake		Oil disc brake

SWING SYSTEM

Drive method	Hydrostatic
Swing reduction	Planetary gear type, double reduction
Swing circle lubrication	Grease-bathed
Swing lock	Oil disc brake
Swing speed	11.0 rpm
Swing torque	6656 kg•m **48,124 ft lbs**

UNDERCARRIAGE

Center frame	X-frame
Track frame	Box-section
Seal of track	Sealed track
Track adjuster	Hydraulic
Number of shoes (each side)	49
Number of carrier rollers (each side)	2
Number of track rollers (each side)	9

COOLANT AND LUBRICANT CAPACITY (REFILLING)

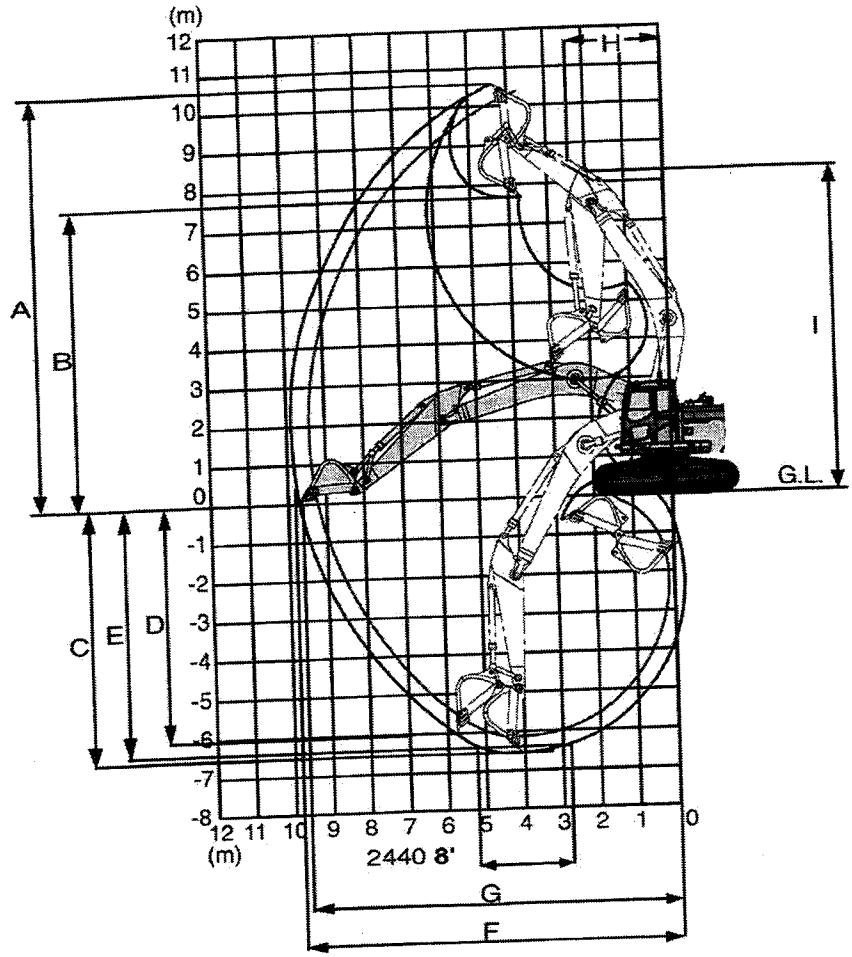
Fuel tank	320 ltr	**84.5 U.S. gal**
Coolant	21.0 ltr	**5.5 U.S. gal**
Engine	23.1 ltr	**6.1 U.S. gal**
Final drive, each side	5.2 ltr	**1.4 U.S. gal**
Swing drive	7.1 ltr	**1.9 U.S. gal**
Hydraulic tank	165 ltr	**43.6 U.S. gal**

WORKING FORCES

	Arm	2925 mm **9'7"**	2400 mm **7'10"**
SAE rating	Bucket digging force at power max.	138 kN 14100 kgf/**31,085 lb**	138 kN 14100 kgf/**31,085 lb**
	Arm crowd force at power max.	101 kN 10300 kgf/**22,710 lb**	124 kN 12600 kgf/**27,780 lb**
ISO rating	Bucket digging force at power max.	149 kN 15200 kgf/**33,500 lb**	149 kN 15200 kgf/**33,500 lb**
	Arm crowd force at power max.	108 kN 11000 kgf/**24,250 lb**	127 kN 13000 kgf/**28,660 lb**

WORKING RANGES

WORKING RANGE



	Arm	2925 mm 9'7"	2400 mm 7'11"
A	Max. digging height	10700 mm 35'1"	10380 mm 34'0"
B	Max. dumping height	7825 mm 25'8"	7470 mm 24'6"
C	Max. digging depth	6620 mm 21'9"	6095 mm 20'0"
D	Max. vertical wall digging depth	5980 mm 19'7"	5315 mm 17'5"
E	Max. digging depth 8' level bottom	6370 mm 20'11"	5840 mm 19'2"
F	Max. digging reach	9875 mm 32'5"	9395 mm 30'10"
G	Max. digging reach at ground level	9700 mm 31'10"	9205 mm 30'2"
H	Min. swing radius	2310 mm 7'7"	2700 mm 8'10"
I	Max. height at min. swing radius	8250 mm 27'1"	8340 mm 27'4"