

# 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 in<sup>3</sup>**  
 Gross horsepower (Manual mode)  
 P-mode  
 Gear 1-3 ..... 136 kW **183 HP**@2000 rpm  
 Gear 4-6 ..... 151 kW **203 HP**@2000 rpm  
 Gear 7-8 ..... 165 kW **221 HP**@2100 rpm  
 E-mode  
 Gear 1-3 ..... 110 kW **148 HP**@2000 rpm  
 Gear 4-6 ..... 136 kW **183 HP**@2000 rpm  
 Gear 7-8 ..... 151 kW **203 HP**@2000 rpm  
 Net flywheel horsepower\*\* (Manual mode)  
 P-mode  
 Gear 1-3 ..... 134 kW **180 HP**@2000 rpm  
 Gear 4-6 ..... 149 kW **200 HP**@2000 rpm  
 Gear 7-8 ..... 163 kW **218 HP**@2100 rpm  
 E-mode  
 Gear 1-3 ..... 108 kW **145 HP**@2000 rpm  
 Gear 4-6 ..... 134 kW **180 HP**@2000 rpm  
 Gear 7-8 ..... 149 kW **200 HP**@2000 rpm  
 Max. torque ..... 941 Nm 96.0 kg·m **694 lb.ft.**@1450 rpm  
 Torque rise ..... 31 %  
 Fan speed ..... Max. 1500 rpm  
 Air cleaner ..... 2-stage, dry-type  
 Electrical ..... 24 Volt with 90 Amp alternator  
 Battery ..... 2, low maintenance plus, 12 Volt, 1146 CCA

\* EPA Tier 3 and EU Stage 3A emissions certified  
 \*\* Net flywheel HP output for standard SAE J1349 including air cleaner, alternator (not charging), water pump, lubricating oil, fuel pump, muffler and fan running at minimum speed.



## TRANSMISSION AND TORQUE CONVERTER

Full power shift transmission with integral free-wheeling stator torque converter and lockup.

Speeds (at rated engine speed)

Gear	Forward		Reverse	
	km/h	mph	km/h	mph
1st	3.4	2.1	4.5	2.8
2nd	5.0	3.1	9.2	5.7
3rd	7.0	4.3	20.3	12.6
4th	10.2	6.3	40.3	25.0
5th	15.4	9.6		
6th	22.3	13.9		
7th	30.6	19.0		
8th	44.3	27.5		



## FRONT AXLE

Type ..... Solid bar construction welded steel sections  
 Ground clearance at pivot ..... 620 mm **2'0"**  
 Wheel lean angle, right or left ..... 16°  
 Oscillation, total ..... 32°



## REAR AXLE

Alloy steel, heat treated, full floating axle with lock/unlock differential.



## TANDEM DRIVE

Oscillating welded box section ..... 520 mm x 202 mm **1'8" x 8"**  
 Side wall thickness: Inner ..... 22 mm **0.87"**  
 Outer ..... 19 mm **0.75"**  
 Wheel axle spacing ..... 1525 mm **5'0"**  
 Tandem oscillation ..... 11° forward, 13° reverse



## WHEELS, FRONT AND REAR

Bearings ..... Tapered roller  
 Tires ..... 17.5R25  
 Tire rims (demountable) ..... 13" one-piece rims



## STEERING

Hydraulic power steering providing stopped engine steering meeting SAE J53 and J1151.  
 Minimum turning radius ..... 7.4 m **24'3"**  
 Maximum steering range, right or left ..... 49°  
 Articulation, right or left ..... 25°



## BRAKES

Service brake ..... Foot operated, sealed wet disc brakes, hydraulically actuated on four tandem wheels, 13691 cm<sup>2</sup> **2,122 in<sup>2</sup>** total braking surface  
 Parking brake ..... Manually actuated, spring applied, hydraulically released caliper with transmission interlock



## FRAME

Front Frame Structure  
 Height ..... 300 mm **11.8"**  
 Width ..... 300 mm **11.8"**  
 Thickness ..... 14 mm **0.55"**



## DRAWBAR

A-shaped, U-section press formed and welded construction for maximum strength with a replaceable drawbar ball.  
 Drawbar frame ..... 210 x 25 mm **8.3" x 1"**



## CIRCLE

Single-piece rolled ring forging. Six circle support shoes with replaceable wear surface. Circle teeth hardened on front 180° of circle.  
 Diameter (outside) ..... 1530 mm **5'0"**  
 Circle reversing control hydraulic rotation ..... 360°



## MOLDBOARD

Hydraulic power shift fabricated from high carbon steel. Includes replaceable metal wear inserts, cutting edge and end bits. Cutting edge and end bits are hardened.  
 Dimensions ..... 4320 x 660 x 22 mm **14' x 26" x 0.87"**  
 Arc radius ..... 329 mm **1'1"**  
 Cutting edge ..... 152 x 16 mm **6" x 0.63"**



**BLADE RANGE**

Circle center shift: Right	590 mm 1'11"
Left	590 mm 1'11"
Moldboard side shift:	
Right	820 mm 2'8"
Left	820 mm 2'8"
Maximum shoulder reach outside rear tires (frame straight)	
Right	1940 mm 6'4"
Left	1940 mm 6'4"
Maximum lift above ground	480 mm 1'7"
Maximum cutting depth	615 mm 2'0"
Maximum blade angle, right or left	90°
Blade tip angle	40° forward, 5° backward



**HYDRAULIC SYSTEM**

Load-sensing closed center hydraulics with variable displacement piston pump. Short stroke/low effort direct acting control valves with preselected maximum flow setting to each function. Double acting anti-drift check valves on blade lift, tip, circle shift, articulation, and leaning wheels.

Output	200 ltr/min 52.8 U.S.gal/min @ 2000 rpm
Standby pressure	3.4 MPa 35 kg/cm <sup>2</sup> 500 psi
Maximum system pressure	20.6 MPa 210 kg/cm <sup>2</sup> 3,000 psi



**INSTRUMENTATION**

Electric monitoring system with diagnostics:

Gauges:  
 Standard . . . . . articulation, engine coolant temperature, fuel level, speedometer, T/M shift indicator, engine tachometer torque converter oil temperature

Warning lights/Indicator:  
 Standard . . . . . battery charge, brake oil pressure, blade float, brake oil pressure, inching temperature, directional indicator, engine oil pressure, hydraulic oil temperature, heater signal, lift arm lock, parking brake, differential lock, torque converter oil temperature, eco, P mode, fan reverse, rpm set, high beam, working lights  
 Optional . . . . . blade accumulator



**OPERATING WEIGHT (APPROXIMATE)**

Standard configuration without pushplate	
Total	16035 kg 35,351 lb
On rear wheels	11582 kg 25,534 lb
On front wheels	4453 kg 9,817 lb
With rear mounted ripper and front push plate:	
Total	17916 kg 39,505 lb
On rear wheels	12673 kg 27,944 lb
On front wheels	5243 kg 11,561 lb
With mid-mounted scarifier, without front pushplate:	
Total	16631 kg 36,665 lb
On rear wheels	11661 kg 25,708 lb
On front wheels	4970 kg 10,957 lb

- Front pushplate weight 1075 kg 2,371 lb
- Operating weight based on the standard machine configuration with 17.5R25 tires, 14' moldboard, full fuel tank, coolant, lubricants, and operator



**SERVICE REFILL CAPACITIES**

Fuel tank	416 ltr	109.9 U.S. gal
Cooling system	24.9 ltr	6.6 U.S. gal
Crank case	23.1 ltr	6.1 U.S. gal
Transmission	45 ltr	11.9 U.S. gal
Final drive	17 ltr	4.5 U.S. gal
Tandem housing (each)	57 ltr	15.1 U.S. gal
Hydraulic system	69 ltr	18.2 U.S. gal
Circle reverse housing	7 ltr	1.8 U.S. gal



**DIMENSIONS**

A	Height, low profile cab	3200 mm	10'6"
B*	Center of front axle to counterweight (Pusher)	927 mm	3'0"
C	Cutting edge to center of front axle	2580 mm	8'6"
D	Wheelbase to center of tandem	6480 mm	21'3"
E	Front tire to rear bumper	9205 mm	30'2"
F	Tandem wheelbase	1524 mm	5'0"
G*	Center of tandem to ripper point on ground	2780 mm	9'1"
H*	Overall length	10575 mm	34'8"
I	Tread	2060 mm	6'9"
J	Width over tires	2485 mm	8'2"
K*	Width of 12' moldboard	3710 mm	12'2"
L*	Width of 14' moldboard	4320 mm	14'2"
M*	Ripper beam width	2305 mm	7'7"
N	Articulation, left or right	25°	

\*optional

