

SPECIFICATIONS



ENGINE

Model.....Komatsu SAA6D170E-5
 Type..... Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled 4-cycle diesel
 Engine power
 at rated engine speed 1.800 rpm
 ISO 14396..... 396 kW / 531 HP
 ISO 9249 (net engine power)..... 393 kW / 527 HP
 No. of cylinders 6
 Bore x stroke 170 x 170 mm
 Displacement..... 23,15 ltr
 Governor..... Electronic, all speed
 Fan drive method for radiator cooling Hydraulic
 Injection system.....Direct injection
 Lubricating systemGear pump, force-lubrication
 Filter..... Full-flow type
 Air-filter type Dry type with dust indicator and auto dust evacuator



TRANSMISSION

Torque converter..... One-stage, two-phase, 3-element
 Transmission..... Full-powershift, planetary gear

Travel speed (35/65-33 tyres)				
Gear	1.	2.	3.	4.
Forwards	6,7 km/h	11,7 km/h	20,3 km/h	33,8 km/h
with lock-up clutch ON	-	12,4 km/h	21,7 km/h	37,7 km/h
Backwards	7,3 km/h	12,8 km/h	22,0 km/h	37,0 km/h



SERVICE REFILL CAPACITIES

Cooling system 147 ltr
 Fuel tank 718 ltr
 Engine oil..... 86 ltr
 Hydraulic system 443 ltr
 Axle (both front and rear axle)..... 155 ltr
 Torque converter and transmission 83 ltr



ENVIRONMENT

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

Noise levels

LpA operator ear 73 dB(A) (ISO 6396 dynamic test)
 LwA external 111 dB(A) (2000/14/EC Stage 2)
 Vibration levels (EN 12096:1997)*
 Hand/arm ≤ 2,5 m/s² (uncertainty K = 0,27 m/s²)
 Body..... ≤ 0,5 m/s² (uncertainty K = 0,28 m/s²)

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



BRAKES

Operating brakesHydraulically actuated, wet multi-disc brakes on all wheels
 Parking brake..... Wet-disc
 Emergency brake Uses the parking brake



HYDRAULIC SYSTEM

Loader pump Piston pump
 Circulating capacities..... 239 + 239 ltr/min
 Working pressure (relief valve setting) 350 kgf/cm²
 Control valve..... 2-spool
 No. of boom/bucket cylinders..... 2/1
 Hydraulic cylinders Double acting, piston type
 Bore diameter x stroke
 Boom cylinder 200 x 1.067 mm
 Bucket cylinder..... 225 x 776 mm
 Hydraulic control lever positions
 Boom..... Raise, hold, lower, and float
 Bucket Tilt back, hold and dump
 Hydraulic cycle with rated load bucket filling
 Stroke time (raise time)..... 9,3 s
 Lowering time (empty) 4,1 s
 Dumping time 2,3 s



STEERING SYSTEM

System..... Articulated
 Type Completely hydraulic power steering
 Steering angle to either side..... 43°
 No. of steering cylinders 2
 Bore diameter x stroke 115 x 510 mm
 Smallest turn (outer edge of tyre) 7.075 mm
 Steering pump Piston pump
 Capacity..... 163 ltr/min
 Working pressure (relief valve setting) 350 kgf/cm²



AXLES AND FINAL DRIVES

System..... 4-wheel drive
 Front axle..... HD axle, fixed
 Rear axle HD axle, full-floating, 26° swing angle
 Reduction gear Spiral bevel gear
 Differential gear Conventional gear
 Final drive Planetary gear, single reduction