

Specifications

ENGINE

Model	Komatsu SAA4D95LE-5
Type.....	common rail direct injection, water cooled, emissionised, turbocharged, after-cooled, diesel
Displacement.....	3.260 cm ³
Bore × stroke.....	95 mm × 115 mm
No. of cylinders	4
Engine power	
at engine speed	2.200 rpm
ISO 14396	72,0 kW / 96,6 HP
SAE J1349	68,4 kW / 91,7 HP
Max. torque/engine speed	358 Nm/1.500 rpm
Air cleaner	dry, double element type air cleaner with dust indicator and auto-dust evacuator

OPERATING WEIGHT

Operating weight, including 1.850 mm arm, 0,33 m³ bucket (ISO 7451), blade, operator, liquids, filled tank and standard equipment (ISO 6016).

	Width	Operating weight with two-piece boom
With rear blade	2.500 mm	12.305 kg
With rear stabilizers	2.490 mm	12.310 kg
With blade and stabilizers	2.500 mm	12.885 kg

TRANSMISSION

Hydrostatic transmission with four driving wheels. The hydraulic motor acts by means of a synchromesh gear that makes for two speed ranges.

Maximum traction force	6.472 daN (6.600 kg)
Working speed	1st 4 km/h - 2nd 9 km/h
Travelling speed	3rd 14 km/h - 4th 30 km/h

AXLES

Driving and steering axles with epicyclic reduction gears in the hubs. The oscillation of the front axle can be blocked by means of two hydraulic pistons.

Tyres:

Twin tyres (standard)	9-20
Single tyres (option)	18-19.5

STEERING

Hydraulically operated steering system that acts on the front and rear wheels by means of double rod hydraulic cylinders in the axles. The operator can select three kinds of steering by means of an electric switch:

- two steering wheels
- four steering wheels
- crab steering

Steering radius:

Two steering wheels	6.850 mm
Four steering wheels.....	4.050 mm

CAB

Sound-proof cab, provided with safety glasses, liftable windscreen, roof window, sliding door with lock, windscreen-wiper, electric horn, adjustable seat with double slide, control system and instrumentation, adjustable joysticks, outside air inlet.

HYDRAULIC SYSTEM

Type.....HydrauMind. Closed-centre system with load sensing and pressure compensation valves

Main pumps:

Pump for.....	boom, arm, bucket, undercarriage and travelling
Type	variable displacement, axial piston
Max. flow	198 ltr/min
Pump for.....	swing
Type	fixed displacement gear pump
Max. flow	70 ltr/min

Hydraulic motors:

Travel.....	1 × piston motor with counterbalance valve
Swing.....	1 × piston motor with swing holding brake
Relief valve setting:	
Swing and blade	20,3 MPa (208 kg/cm ²)
Travel and work equipment	26,5 MPa (270 kg/cm ²)
Bucket breakout force (ISO 6015).....	7.169 daN (7.310 kgf)
Arm crowd force, 2.000 mm arm (ISO 6015).....	4.511 daN (4.600 kgf)

SWING SYSTEM

Driven by	hydraulic motor
Swing reduction gear	planetary gear
Swing circle lubrication	grease-bathed
Swing brakes.....	automatic, with oil immersed disks
Swing speed.....	8,5 rpm

BRAKES

Type.....	hydraulically controlled, with pedal, by means of two double circuit pumps, acting on oil immersed multiple discs on the four wheels.
Service brakes.....	hydraulically controlled by means of a pedal, acting on the four wheels
Parking brake	negative type brakes, hydraulically controlled by means of an electric push button positioned inside the cab, acting on the rear axle.

ELECTRIC SYSTEM

Voltage	24 V
Battery	125 Ah
Alternator.....	60 A
Starter motor	4,5 kW

SERVICE REFILL CAPACITIES

Fuel tank.....	150 ltr
Cooling system.....	12,4 ltr
Engine oil.....	11 ltr
Differential (each axle)	9 ltr
Final drive (each side).....	0,8 ltr
Swing drive.....	3,5 ltr
Hydraulic oil tank.....	80 ltr

ENVIRONMENT

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

Noise levels

LwA external	100 dB(A) (2000/14/EC Stage II)
LpA operator ear.....	74 dB(A) (ISO 6396 dynamic test)

Vibration levels (EN 12096:1997)*

Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,58 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,22 m/s ²)

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

LIFTING CAPACITY

A – Reach from swing centre

B – Height at bucket pin

 – Rating over front









 – Rating over side

DATAS AND SPECIFICATIONS ARE REFERRING TO THE MACHINE ACCORDING TO 89/392/CE AND EN 474-5 DIRECTIVES.









When removing bucket, linkage or cylinder, lifting capacities can be increased by their respective weights.

Lifting capacities with additional counterweight (388 kg), 266 kg bucket, twin tyres (9-20), blade and outriggers, levers and cylinder.









WITH FRONT BLADE AND REAR STABILISERS UP

B \ A		Max.		6,0 m		4,5 m		3,0 m	
									
Arm length 1.850 mm	4,5 m	*1.840	1.170	*1.910	1.440	*2.080	*2.080		
	3,0 m	*1.740	1.030	*2.130	1.380	*2.790	2.160		
	1,5 m	*1.780	1.000	*2.410	1.310				
	0,0 m	*1.880	1.080	*2.460	1.280	*3.750	1.930		
Arm length 2.000 mm	4,5 m	*1.680	1.110	*1.830	1.440	*1.960	*1.960		
	3,0 m	*1.590	980	*2.070	1.370	*2.680	2.170		
	1,5 m	*1.620	960	*2.370	1.300				
	0,0 m	*1.790	1.030	*2.450	1.270	*3.740	1.910		

WITH REAR BLADE DOWN (LIFTING ON BLADE)

B \ A		Max.		6,0 m		4,5 m		3,0 m	
									
Arm length 1.850 mm	4,5 m	1.840*	1.208	1.910*	1.910*	2.080*	2.080*		
	3,0 m	1.740*	1.140	2.130*	1.538	2.790*	2.370		
	1,5 m	1.780*	1.148	2.410*	1.508				
	0,0 m	1.880*	1.182	2.460*	1.477	3.750*	2.190		
Arm length 2.000 mm	4,5 m	1.680*	1.148	1.830*	1.830*	1.960*	1.960*		
	3,0 m	1.590*	1.013	2.070*	1.508	2.680*	2.340		
	1,5 m	1.620*	1.005	2.370*	1.425				
	0,0 m	1.790*	1.075	2.450*	1.397	3.740*	2.198		

WITH FRONT BLADE AND REAR STABILISERS DOWN

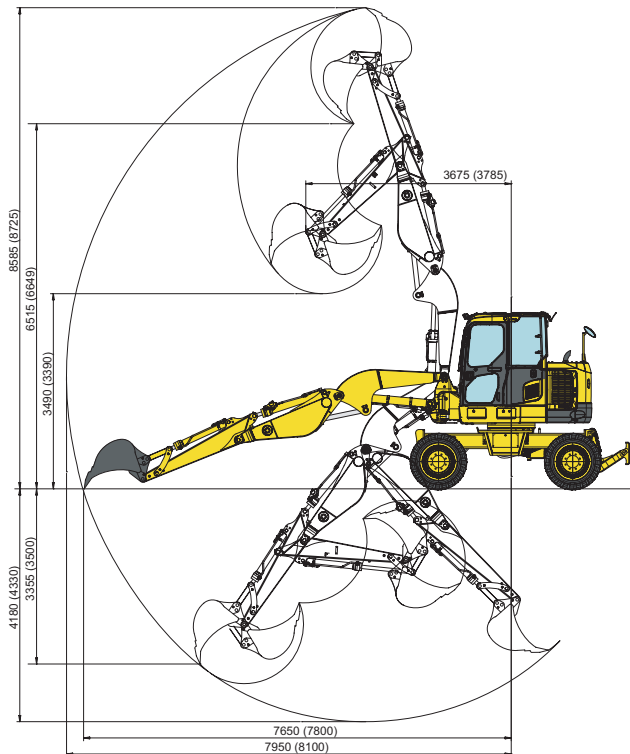
B \ A		Max.		6,0 m		4,5 m		3,0 m	
									
Arm length 1.850 mm	4,5 m	1.840*	1.373	1.910*	1.910*	2.080*	2.080*		
	3,0 m	1.740*	1.290	2.130*	2.130*	2.790*	2.790*		
	1,5 m	1.780*	1.253	2.410*	1.703				
	0,0 m	1.880*	1.290	2.460*	1.668	3.750*	2.562		
Arm length 2.000 mm	4,5 m	1.680*	1.313	1.830*	1.830*	1.960*	1.960*		
	3,0 m	1.590*	1.170	2.070*	2.070*	2.680*	2.680*		
	1,5 m	1.620*	1.125	2.370*	1.538				
	0,0 m	1.790*	1.159	2.450*	1.507	3.740*	2.443		

NOTE:

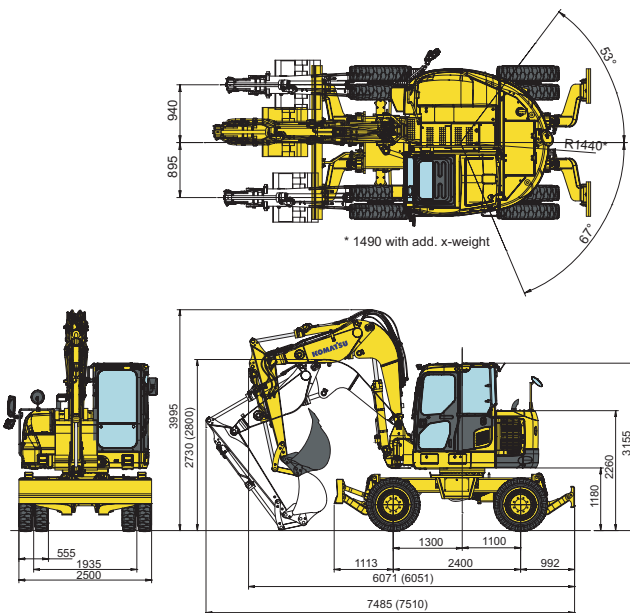
Ratings are based on ISO standard 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Excavators used in object handling operations must comply with the related local regulations and must be equipped with hose burst valves (boom & arm) and an overload warning device in compliance with EN474-5.

- The values marked with an asterisk (*) are limited by the hydraulic capacities
- Calculations are based on the machine resting on a uniform and firm surface
- The lifting point is a hypothetical hook placed behind the bucket.

WORKING RANGE



DIMENSIONS



Bucket capacity (ISO 7451)	m ³	0,093	0,15	0,19	0,24	0,28	0,33	0,36	0,40
Bucket width	mm	300	400	500	600	700	800	900	1.000
Bucket weight	kg	168	194	218	234	252	270	294	320
No. of teeth	-	2	3	3	4	4	4	5	5