

KOMATSU

PC138US-11

EU Stage IV Engine

HYDRAULIC EXCAVATOR



PC138

ENGINE POWER

72,6 kW / 97,3 HP @ 2.050 rpm

OPERATING WEIGHT

13.880 - 14.820 kg

BUCKET CAPACITY

max. 0,72 m³

Specifications

ENGINE

Model	Komatsu SAA4D95LE-7
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.050 rpm
ISO 14396	72,6 kW/97,3 HP
ISO 9249 (net engine power)	72,5 kW/97,2 HP
No. of cylinders	4
Bore × stroke	95 × 115 mm
Displacement	3,26 l
Air filter type	Double element type with monitor panel dust indicator and auto dust evacuator
Cooling	Suction type cooling fan with radiator fly screen

HYDRAULIC SYSTEM

Type	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuit	1 additional circuit with proportional control can be installed
Main pump	1 variable displacement piston pump supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow	242 l/min
Relief valve settings	
Implement	355 kg/cm ²
Travel	355 kg/cm ²
Swing	265 kg/cm ²
Pilot circuit	33 kg/cm ²

SERVICE REFILL CAPACITIES

Fuel tank	200 l
Radiator	16,1 l
Engine oil	11,5 l
Swing drive	2,5 l
Hydraulic tank	69 l
Final drive (each side)	2,1 l
AdBlue® tank	21,1 l

OPERATING WEIGHT (APPR.)

	MONO BOOM		TWO-PIECE BOOM	
	Operating weight	Ground pressure	Operating weight	Ground pressure
Triple grouser shoes				
500 mm	13.880 kg	0,48 kg/cm ²	14.980 kg	0,49 kg/cm ²
600 mm	14.050 kg	0,41 kg/cm ²	15.420 kg	0,43 kg/cm ²
700 mm	14.230 kg	0,35 kg/cm ²	15.600 kg	0,38 kg/cm ²
500 mm road liner	13.990 kg	0,49 kg/cm ²	15.370 kg	0,49 kg/cm ²

Operating weight, including specified work equipment, 2,5 m arm, 470 kg bucket, operator, lubricant, coolant, full fuel tank and the standard equipment. Additional weight with blade: + 800 kg

SWING SYSTEM

Type	Axial piston motor driving through planetary double reduction gearbox
Swing lock	Electrically actuated wet multidisc brake integrated into swing motor
Swing speed	0 - 11 rpm
Swing torque	33 kNm

DRIVES AND BRAKES

Steering control	2 levers with pedals giving full independent control of each track
Drive method	Hydrostatic
Gradeability	70%, 35°
Max. travel speeds	
Lo / Hi	2,9 / 5,1 km/h
Maximum drawbar pull	12.500 kg
Brake system	Hydraulically operated discs in each travel motor

UNDERCARRIAGE

Construction	X-frame centre section with box section track frames
Track assembly	
Type	Fully sealed
Shoes (each side)	43
Tension	Combined spring and hydraulic unit
Rollers	
Track rollers (each side)	7
Carrier rollers (each side)	1

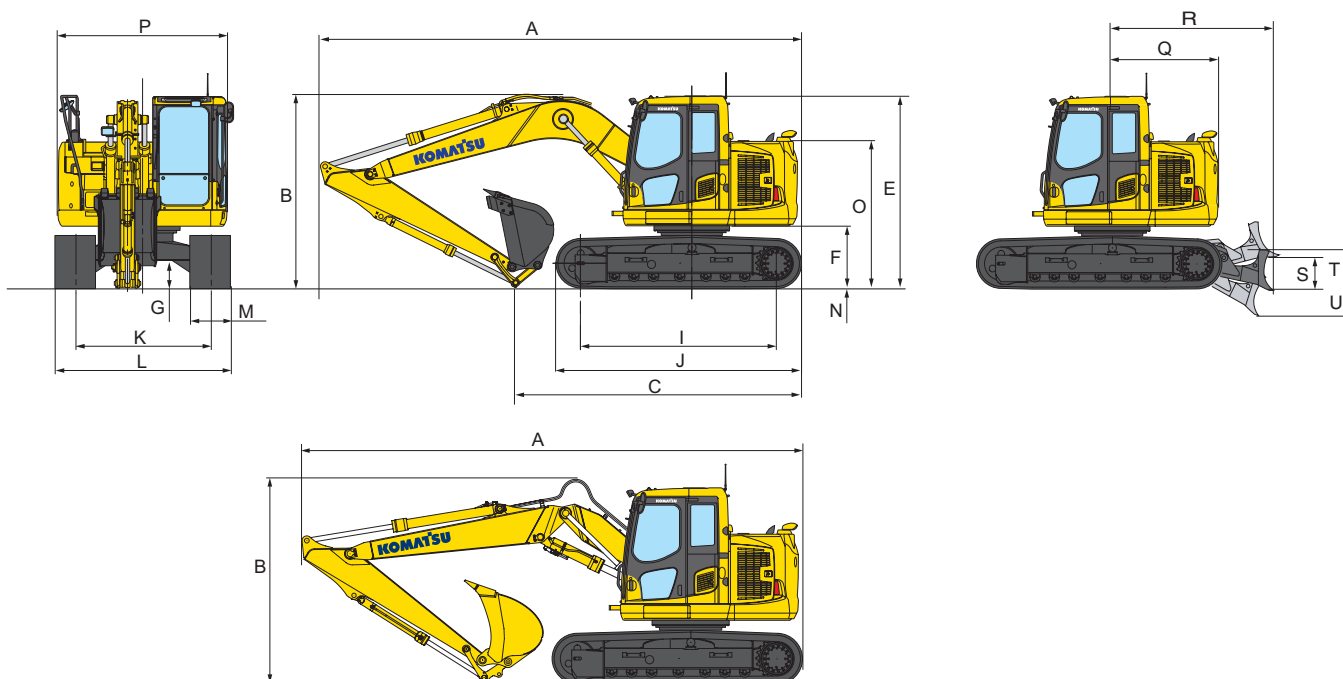
ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	99 dB(A) (2000/14/EC Stage II)
LpA operator ear	72 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,63 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,25 m/s ²)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0,8 kg, CO ₂ equivalent 1,14 t	

Dimensions & Performance Figures

MACHINE DIMENSIONS

E	Overall height of cab	2.815 mm
F	Clearance under counterweight	900 mm
G	Ground clearance	395 mm
H	Tail swing radius	1.480 mm
I	Tumbler centre distance	2.880 mm
J	Track length	3.610 mm
K	Track gauge	1.990 mm
L	Overall track width with 500 mm shoes	2.490 mm
	Overall track width with 600 mm shoes	2.590 mm
	Overall track width with 700 mm shoes	2.690 mm
M	Shoe width	500, 600, 700 mm
N	Grouser height	20 mm
O	Machine tail height	2.140 mm
P	Overall width of upper structure	2.490 mm
Q	Distance, swing center to rear end	1.480 mm
R	Distance, swing center to blade	2.500 mm
S	Blade, max. lifting height	470 mm
T	Height of blade	590 mm
U	Blade, max. digging depth	525 mm
	Blade width (with 500 mm shoes)	2.490 mm
	Blade width (with 600 mm shoes)	2.590 mm



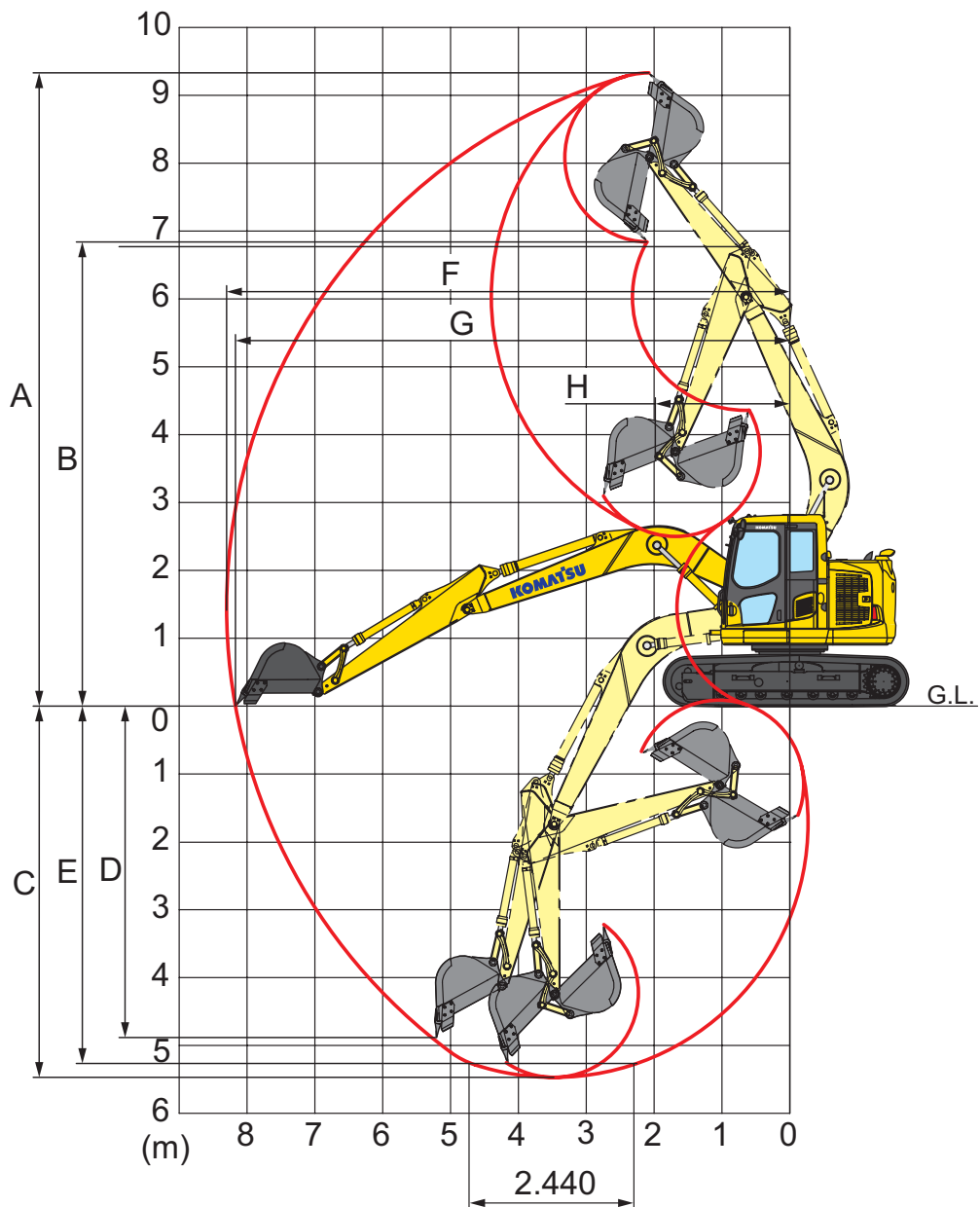
TRANSPORT DIMENSIONS

	MONO BOOM	TWO-PIECE BOOM
Arm length	2,5 m	2,5 m
A Transport length	7.260 mm	8.100 mm
B Overall height (to top of boom)	2.850 mm	–
C Length on ground (transport)	4.400 mm	4.730 mm

Working Range

MONO BOOM

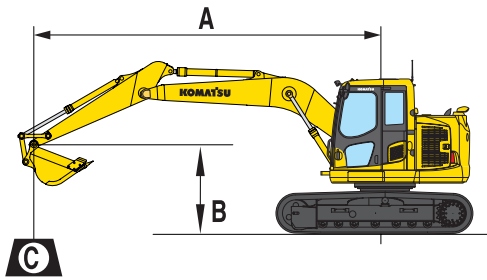
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ARM LENGTH	2,5 m	3,0 m
A Max. digging height	9.340 mm	9.700 mm
B Max. dumping height	6.840 mm	7.350 mm
C Max. digging depth	5.480 mm	5.900 mm
D Max. vertical wall digging depth	4.900 mm	5.340 mm
E Max. digging depth of cut for 2,44 m level	5.265 mm	5.715 mm
F Max. digging reach	8.300 mm	8.720 mm
G Max. digging reach at ground level	8.180 mm	8.600 mm
H Min. swing radius	1.980 mm	2.265 mm
Bucket digging force (ISO)	9.316 daN	9.316 daN
Arm crowd force (ISO)	6.178 daN	5.590 daN

Lifting Capacity

MONO BOOM



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket (400 kg), bucket linkage and bucket cylinder

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

With 500 mm shoes

– Rating over front

– Rating over side

– Rating at maximum reach

Arm length	A				7,0 m		6,0 m		4,5 m		3,0 m		1,5 m	
	B													
 400 kg 0,5 m ³	6,0 m	kg	*1.340	*1.340			*1.870	*1.870	*2.670	*2.670				
	4,5 m	kg	*1.250	*1.250	*1.600	1.430	*2.680	1.950	*2.840	*2.840				
	3,0 m	kg	*1.250	1.170	2.250	1.400	2.950	1.870	*3.760	3.090	*3.740	*3.740		
	1,5 m	kg	*1.330	1.090	2.180	1.340	2.830	1.760	4.580	2.840	*7.560	5.440		
	0,0 m	kg	*1.500	1.100	2.120	1.280	2.720	1.660	4.330	2.620	*6.480	4.930		
	-1,5 m	kg	*1.810	1.200	2.080	1.250	2.650	1.600	4.200	2.500	*6.220	4.760	*3.840	*3.840
	-3,0 m	kg	2.460	1.490			2.660	1.600	4.180	2.490	*6.480	4.780	*5.760	*5.760
	-4,5 m	kg	*2.920	2.290					*3.500	2.590	*5.500	4.950		

 400 kg 0,5 m ³	6,0 m	kg	*1.650	*1.650					*3.100	*3.100				
	4,5 m	kg	*1.540	*1.540			*2.850	1.920	*3.570	3.210				
	3,0 m	kg	*1.550	1.340	*1.970	1.390	2.930	1.860	*4.360	3.040	*5.880	*5.880		
	1,5 m	kg	*1.660	1.250	2.180	1.340	2.830	1.770	4.540	2.820	*7.430	5.310		
	0,0 m	kg	*1.910	1.260	2.140	1.300	2.740	1.680	4.340	2.640	*6.090	4.940		
	-1,5 m	kg	2.310	1.410			2.700	1.640	4.250	2.560	*6.070	4.860	*4.370	*4.370
	-3,0 m	kg	2.940	1.800					4.270	2.570	*6.540	4.920	*5.750	*5.750
	-4,5 m	kg												

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Lifting capacity stated is based on lifting with bare arm. When lifting with additional equipment installed to the arm, please subtract the weight of all additional equipment from the values stated.