

Specifications

ENGINE

Model	Komatsu SAA6D107E-3
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.000 rpm
ISO 14396	123 kW/165 HP
ISO 9249 (net engine power)	123 kW/165 HP
No. of cylinders	6
Bore × stroke	107 × 124 mm
Displacement	6,69 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
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

HYDRAULIC SYSTEM

Type	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuits	2 additional circuits with proportional control can be installed
Main pump	2 variable displacement piston pumps supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow	490 l/min
Relief valve settings	
Implement	380 kg/cm ²
Travel	380 kg/cm ²
Swing	300 kg/cm ²
Pilot circuit	33 kg/cm ²

SERVICE REFILL CAPACITIES

Fuel tank	290 l
Radiator	30 l
Engine oil	23,1 l
Swing drive	6,5 l
Hydraulic tank	126 l
Final drive (each side)	5,0 l
AdBlue® tank	13 l

OPERATING WEIGHT (APPR.)

Triple grouser shoes	Operating weight	Ground pressure
600 mm	23.600 kg	0,50 kg/cm ²
700 mm	23.870 kg	0,43 kg/cm ²
800 mm	24.150 kg	0,38 kg/cm ²
600 mm road liner	23.460 kg	0,49 kg/cm ²

Operating weight, including specified work equipment, 2,9 m arm, 650 kg bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

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	65 kNm

DRIVES AND BRAKES

Steering control	2 levers with pedals giving full independent control of each track
Drive method	Hydrostatic
Travel operation	Automatic 3-speed selection
Gradeability	70%, 35°
Max. travel speeds	
Lo / Mi / Hi	3,0 / 4,1 / 5,5 km/h
Maximum drawbar pull	20.600 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)	49
Tension	Combined spring and hydraulic unit
Rollers	
Track rollers (each side)	9
Carrier rollers (each side)	2

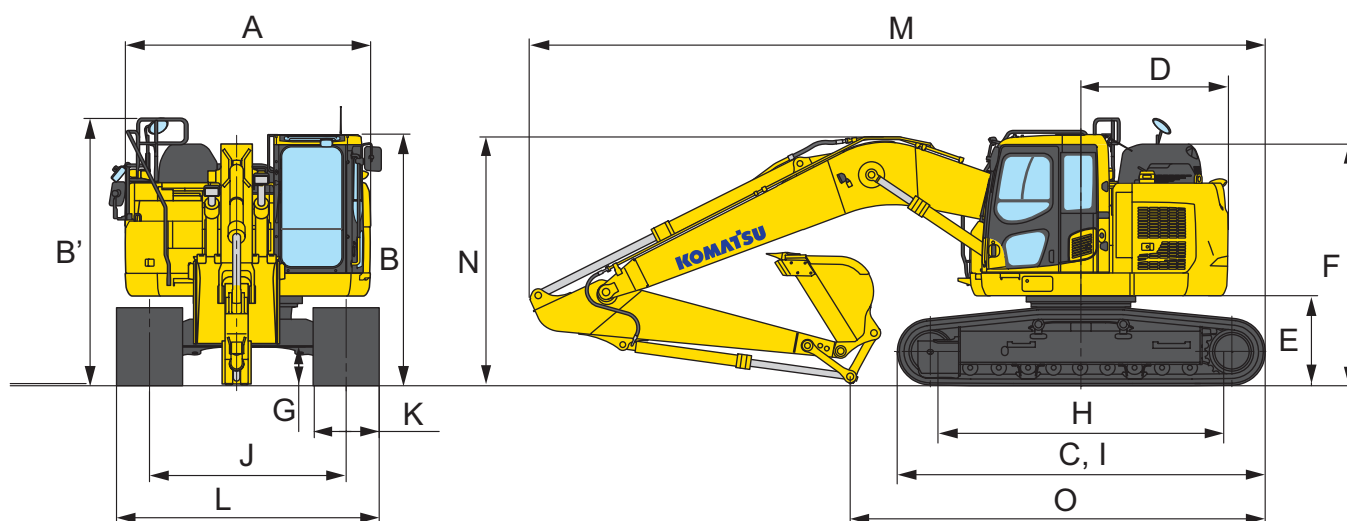
ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	100 dB(A) (2000/14/EC Stage II)
LpA operator ear	71 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,51 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,30 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

A	Overall width of upper structure	2.980 mm
B	Overall height (top of cab)	3.065 mm
B'	Overall height (top of handrail)	3.255 mm
C	Overall length of basic machine	4.450 mm
D	Tail length	1.785 mm
	Tail swing radius	1.785 mm
E	Clearance under counterweight	1.075 mm
F	Machine tail height	2.915 mm
G	Ground clearance	440 mm
H	Tumbler centre distance	3.655 mm
I	Track length	4.450 mm
J	Track gauge	2.380 mm
K	Track shoe width	600, 700, 800 mm
L	Overall track width with 600 mm shoes	2.980 mm
	Overall track width with 700 mm shoes	3.080 mm
	Overall track width with 800 mm shoes	3.180 mm



TRANSPORT DIMENSIONS

	Arm length	2,4 m	2,9 m
M	Transport length	8.980 mm	8.920 mm
N	Overall height (to top of boom)	3.165 mm	3.040 mm
O	Length on ground (transport)	5.890 mm	5.050 mm

Dimensions & Performance Figures

MAX. BUCKET CAPACITY AND WEIGHT

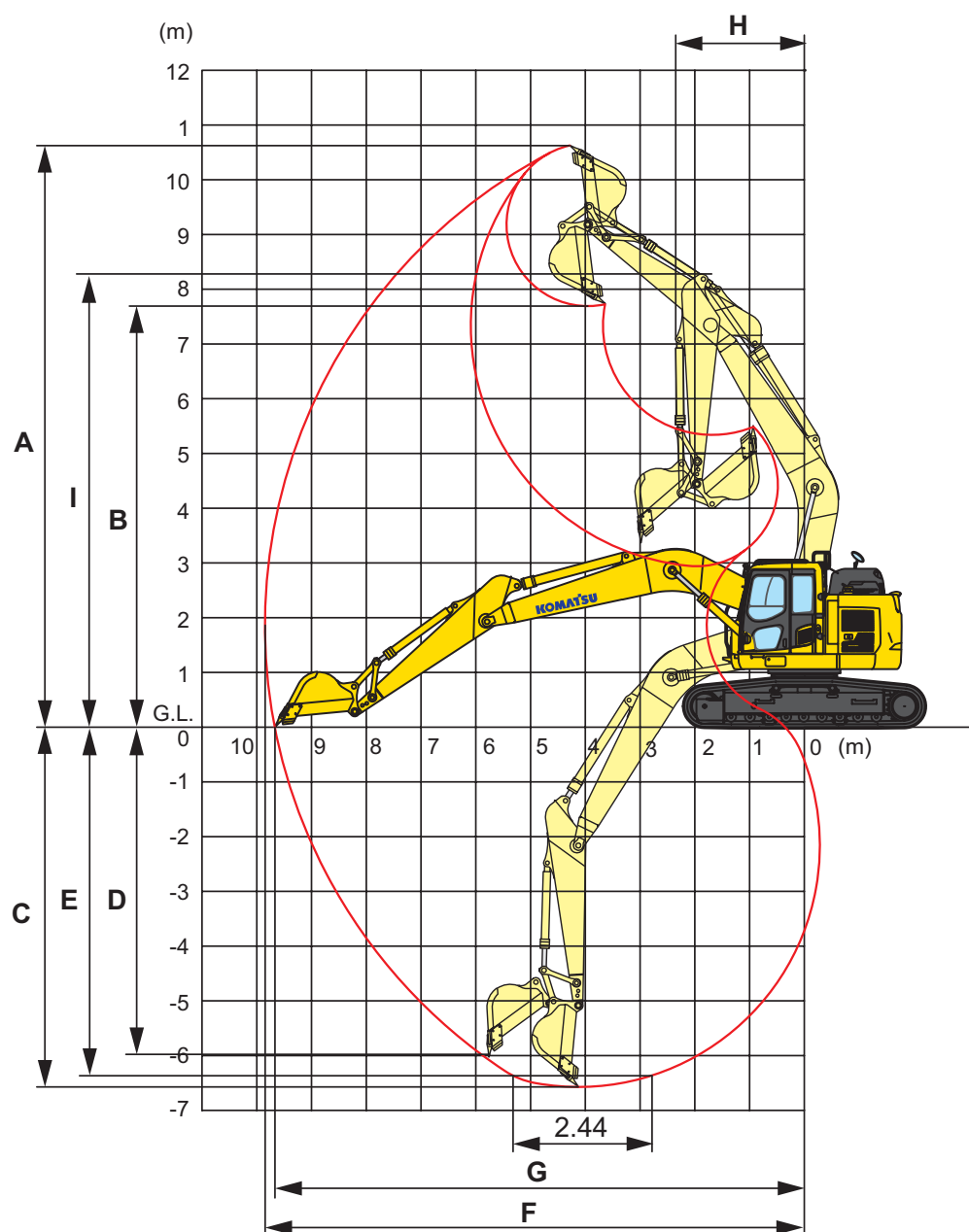
Arm length	2,4 m	2,9 m
Material weight up to 1,2 t/m ³	1,49 m ³ 1.100 kg	1,37 m ³ 1.000 kg
Material weight up to 1,5 t/m ³	1,36 m ³ 1.100 kg	1,26 m ³ 950 kg
Material weight up to 1,8 t/m ³	1,18 m ³ 900 kg	1,10 m ³ 875 kg

BUCKET AND ARM FORCE

Arm length	2,4 m	2,9 m
Bucket digging force	16.500 kg	14.100 kg
Bucket digging force at PowerMax	17.500 kg	15.200 kg
Arm crowd force	12.200 kg	10.300 kg
Arm crowd force at PowerMax	13.000 kg	11.000 kg



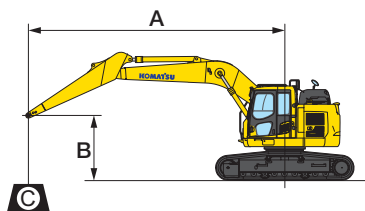
Working Range



WORKING RANGE

Arm length	2,4 m	2,9 m
A Max. digging height	10.380 mm	10.700 mm
B Max. dumping height	7.470 mm	7.825 mm
C Max. digging depth	6.095 mm	6.620 mm
D Max. vertical wall digging depth	5.315 mm	5.980 mm
E Max. digging depth of cut for 2,44 m level	5.840 mm	6.370 mm
F Max. digging reach	9.395 mm	9.875 mm
G Max. digging reach at ground level	9.205 mm	9.700 mm
H Min. swing radius	2.700 mm	2.310 mm
I Max. height at min. swing radius	8.340 mm	8.250 mm


Lifting Capacity




A – Reach from swing center

B – Bucket hook height

C – Lifting capacities

 – Rating over front

 – Rating over side














 – Rating at maximum reach

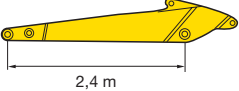
Weights:

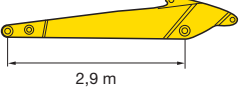
With 2,4 m arm: bucket linkage and bucket cylinder: 360 kg

With 2,9 m arm: bucket linkage and bucket cylinder: 335 kg

With 700 mm shoes

Arm length	A				7,5 m		6,0 m		4,5 m		3,0 m		1,5 m	
	B													

 2,4 m	6,0 m	kg	*5.155	4.275			*6.615	5.385						
	4,5 m	kg	*5.215	3.615	5.675	3.725	*7.305	5.185	*8.385	7.895				
	3,0 m	kg	5.035	3.285	5.535	3.605	7.675	4.875	*11.055	7.295				
	1,5 m	kg	4.875	3.155	5.385	3.465	7.395	4.625	11.455	6.695				
	0,0 m	kg	4.975	3.185	5.275	3.365	7.175	4.425	11.075	6.385	*8.265	*8.265		
	– 1,5 m	kg	5.405	3.435	5.255	3.345	7.085	4.345	10.985	6.305	*10.565	*10.565	*8.975	*8.975
	– 3,0 m	kg	6.495	4.055			7.155	4.405	11.125	6.425	*18.305	12.285	*13.825	*13.825
	– 4,5 m	kg	*9.715	5.885					*10.945	6.735	*15.005	12.525		

 2,9 m	6,0 m	kg	*3.640	*3.640	*3.990	3.860								
	4,5 m	kg	*3.660	3.330	5.760	3.800	*6.740	5.290						
	3,0 m	kg	*3.810	3.060	5.600	3.660	7.810	4.990	*10.090	7.510	*14.590	14.010		
	1,5 m	kg	*4.100	2.940	5.430	3.500	7.490	4.700	11.680	6.890	*7.740	*7.740		
	0,0 m	kg	4.590	2.960	5.300	3.380	7.230	4.480	11.200	6.490	*6.080	*6.080		
	– 1,5 m	kg	4.930	3.150	5.230	3.320	7.090	4.360	11.010	6.330	*10.190	*10.190	*6.060	*6.060
	– 3,0 m	kg	5.730	3.610			7.100	4.370	11.080	6.390	*17.170	12.150	*10.620	*10.620
	– 4,5 m	kg	7.840	4.810					*11.300	6.600	*16.750	12.550		

* 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.

Notes

Standard and Optional Equipment

ENGINE

Komatsu SAA6D107E-3 turbocharged common rail direct injection diesel engine	●
EU Stage IV compliant	●
Suction type cooling fan with radiator fly screen	●
Automatic engine warm-up system	●
Engine overheat prevention system	●
Fuel control dial	●
Auto-deceleration function	●
Adjustable idle shutdown	●
Engine key stop	●
Engine ignition can be password secured on request	●
Alternator 24 V/60 A	●
Starter motor 24 V/5,5 kW	●
Batteries 2 × 12 V/120 Ah	●

HYDRAULIC SYSTEM

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydrauMind)	●
Pump and engine mutual control (PEMC) system	●
6-working mode selection system; Power mode, Economy mode, Breaker mode, Attachment Power and Attachment Economy mode, and Lifting/Fine Operation mode	●
PowerMax function	●
PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and 3 auxiliary buttons	●
Prepared for hydraulic quick-coupler	●
Additional hydraulic functions	○

DRIVES AND BRAKES

Hydrostatic, 3-speed travel system with automatic shift and planetary gear type final drives, and hydraulic travel and parking brakes	●
PPC control levers and pedals for steering and travel	●

UNDERCARRIAGE

Track frame under-guards	●
600 mm triple grouser shoes	●
700, 800 mm triple grouser shoes	○
600 mm road-liner (rubber) shoes	○
Full length track roller guards	○

CABIN

Reinforced safety SpaceCab™; Highly pressurised and tightly sealed hyper viscous mounted cab with tinted safety glass windows, large roof hatch, pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, cigarette lighter, ashtray, luggage shelf, floor mat	●
Heated, high-back air-suspended seat with lumbar support, console mounted height adjustable arm rests, and retractable seat belt	●
Automatic climate control system	●
12/24 Volt power supplies	●
Beverage holder	●
Radio	●
Auxiliary input (MP3 jack)	●
Lower wiper	○
Rain visor (not with OPG)	○

SERVICE AND MAINTENANCE

Automatic fuel line de-aeration	●
Double element type air cleaner with dust indicator and auto dust evacuator	●
KOMTRAX – Komatsu wireless monitoring system (3G)	●
Komatsu CARE™ – a maintenance program for Komatsu customers	●
Multifunction video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit	●
Service points	○
Automatic greasing system	○

LIGHTING SYSTEM

Working lights: 2 revolving frame, 1 boom (l.h.)	●
Additional working lights: 5 cab roof, 1 boom (l.h.), 1 counterweight (rear), additional revolving frame (l.h.), beacon and harness for 2 lamps (not included) in boom foot area	○

SAFETY EQUIPMENT

KomVision surround view system	●
Electric horn	●
Overload warning device	●
Audible travel alarm	●
Boom safety valves	●
Large handrails, rear-view mirrors	●
Battery main switch	●
ROPS compliant to ISO 12117-2:2008	●
Emergency engine stop switch	●
Seat belt caution indicator	●
Neutral position detection system	●
Arm safety valve	●
OPG Level II front guard (FOPS), hinged type	○
OPG Level II top guard (FOPS)	○

WORK EQUIPMENT

Mono boom	●
Bucket linkage with lifting eye	○
2,4 m; 2,9 m arms	○
Komatsu buckets	○
Komatsu breakers	○

OTHER EQUIPMENT

Standard counterweight	●
Remote greasing for swing circle and pins	●
Electric refuelling pump with automatic shut-off function	●

Further equipment on request

- standard equipment
- optional equipment

Your Komatsu partner:

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