



## ENGINE

Model .....	Komatsu SAA4D95LE-5
Type.....	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed .....	2.200 rpm
ISO 14396 .....	72,0 kW / 96,6 HP
ISO 9249 (net engine power) .....	68,0 kW / 91,2 HP
No. of cylinders .....	4
Bore x stroke.....	95 x 115 mm
Displacement.....	3,26 ltr
Starter motor .....	4,5 kW
Alternator.....	24 V/60 A
Battery .....	2 x 12 V/72 Ah
Air filter type .....	Double element type with monitor panel dust indicator and auto dust evacuator

## HYDRAULIC SYSTEM

Type.....	HydrauMind. Closed-centre system with load sensing and pressure compensation valves
Main pump .....	Variable-capacity piston pump
Pumps for .....	Boom, arm, bucket, swing, and travel circuits
Maximum pump flow.....	242 ltr/min
Hydraulic motors:	
Travel .....	2 x axial piston motor with parking brake
Swing .....	1 x axial piston motor with swing holding brake
Relief valve settings:	
Implement .....	355 bar
Travel .....	355 bar
Swing .....	276 bar
Pilot.....	33 bar

## DRIVES AND BRAKES

Steering control .....	2 levers with pedals giving full independent control of each track
Drive method .....	Hydrostatic
Max. drawbar pull.....	12.500 kgf
Max. travel speeds	
Lo / Hi .....	2,9 / 5,1 km/h

## SWING SYSTEM

Type.....	Axial piston motor driving through planetary double reduction gearbox
Swing lock.....	Electrically actuated wet multi-disc brake integrated into swing motor
Swing speed.....	0 - 11 rpm
Swing torque .....	3.357 kgm

## 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

## SERVICE REFILL CAPACITIES

Fuel tank.....	195 ltr
Radiator .....	12,4 ltr
Engine.....	11 ltr
Final drive (each side).....	2,5 ltr
Swing drive.....	2,5 ltr
Hydraulic tank .....	69 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.....	72 dB(A) (ISO 6396 dynamic test)

# Specifications

## OPERATING WEIGHT (APPR.)

Triple grouser shoes	MONO BOOM		TWO-PIECE BOOM		OFFSET BOOM	
	Operating weight	Ground pressure	Operating weight	Ground pressure	Operating weight	Ground pressure
500 mm	13.480 kg	0,43 kg/cm <sup>2</sup>	14.300 kg	0,46 kg/cm <sup>2</sup>	13.540 kg	0,43 kg/cm <sup>2</sup>
600 mm	13.670 kg	0,36 kg/cm <sup>2</sup>	14.490 kg	0,38 kg/cm <sup>2</sup>	13.730 kg	0,36 kg/cm <sup>2</sup>
700 mm	13.850 kg	0,31 kg/cm <sup>2</sup>	14.670 kg	0,33 kg/cm <sup>2</sup>	13.910 kg	0,31 kg/cm <sup>2</sup>

Operating weight including specified work equipment, 2.500 mm arm (offset boom: 2.100 mm arm), 470 kg backhoe bucket, rated capacity of lubricants, coolant, full fuel tank and standard equipment.

Additional weight with blade: + 900 kg  
 Additional weight with 500 mm road-liner: + 130 kg  
 Additional counterweight: + 500 kg

## BUCKET AND ARM COMBINATION

## PC138US-8

Width	Capacity SAE	Weight	2.100 mm	2.500 mm	3.000 mm
500 mm	0,25 m <sup>3</sup>	335 kg	○	○	○
600 mm	0,32 m <sup>3</sup>	375 kg	○	○	○
700 mm	0,40 m <sup>3</sup>	390 kg	○	○	○
800 mm	0,48 m <sup>3</sup>	470 kg	○	○	○
900 mm	0,56 m <sup>3</sup>	475 kg	○	○	△
1.000 mm	0,64 m <sup>3</sup>	505 kg	○	□	–
1.100 mm	0,72 m <sup>3</sup>	560 kg	□	△	–

Please consult with your distributor for the correct selection of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operating conditions.

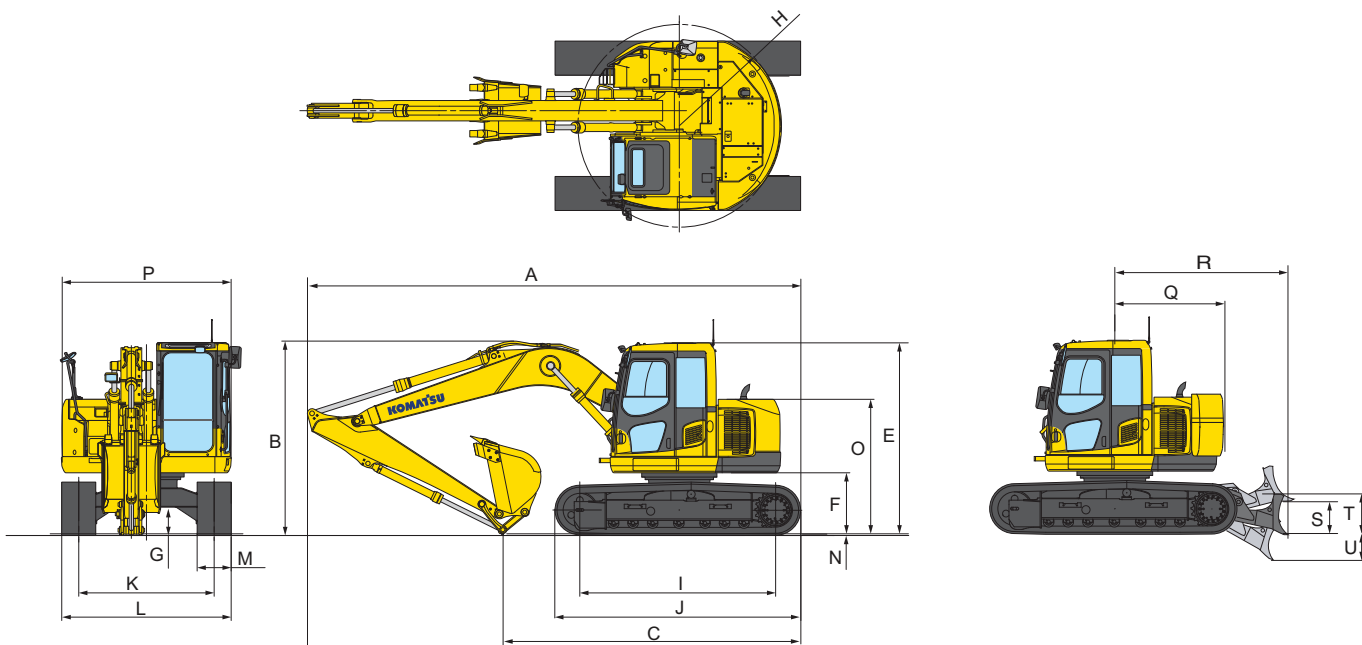
- Material weight up to 1,8 t/m<sup>3</sup>
- Material weight up to 1,5 t/m<sup>3</sup>
- △ Material weight up to 1,2 t/m<sup>3</sup>
- Not usable

## A full range of Komatsu wear parts is available.

A wide range of attachments is available. Please consult your distributor for details of the full range.



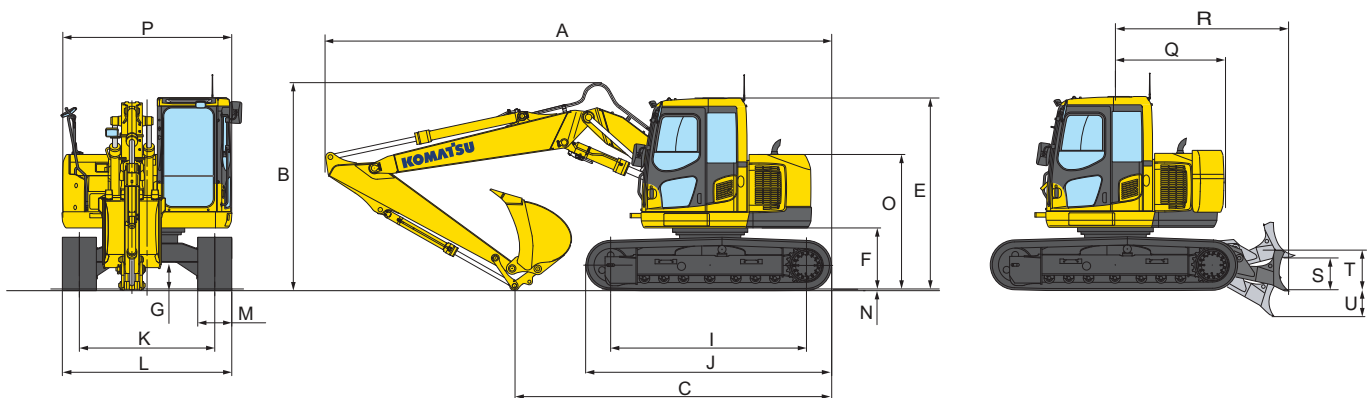
MACHINE DIMENSIONS	MONO BOOM
E Overall height of cab	2.815 mm
F Clearance under counterweight	900 mm
G Ground clearance	395 mm
H Tail swing radius	1.480 mm
I Length of track on ground	2.880 mm
J Track length	3.610 mm
K Track gauge	1.990 mm
L Overall track width with 500 mm shoe	2.490 mm
Overall track width with 600 mm shoe	2.590 mm
Overall track width with 700 mm shoe	2.690 mm
M Shoe width	500, 600, 700 mm
N Grouser height	20 mm
O Machine tail height	1.980 mm
P Overall width of upper structure	2.490 mm
Q Distance, swing center to rear end (with add. counterweight)	1.545 mm
R Distance, swing center to blade	2.490 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



MONO BOOM			
Arm length	2.100 mm	2.500 mm	3.000 mm
A Transport length	7.275 mm	7.260 mm	7.160 mm
B Overall height (to top of boom)	2.690 mm	2.850 mm	3.210 mm
C Length on ground (transport)	4.660 mm	4.400 mm	4.290 mm

# Dimensions

MACHINE DIMENSIONS		TWO-PIECE BOOM
E	Overall height of cab	2.815 mm
F	Clearance under counterweight	900 mm
G	Ground clearance	395 mm
(H)	Tail swing radius	1.545 mm
I	Length of track on ground	2.880 mm
J	Track length	3.610 mm
K	Track gauge	1.990 mm
L	Overall track width with 500 mm shoe	2.490 mm
	Overall track width with 600 mm shoe	2.590 mm
	Overall track width with 700 mm shoe	2.690 mm
M	Shoe width	500, 600, 700 mm
N	Grouser height	20 mm
O	Machine tail height	2.075 mm
P	Overall width of upper structure	2.490 mm
Q	Distance, swing center to rear end (with add. counterweight)	1.545 mm
R	Distance, swing center to blade	2.490 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



## TWO-PIECE BOOM

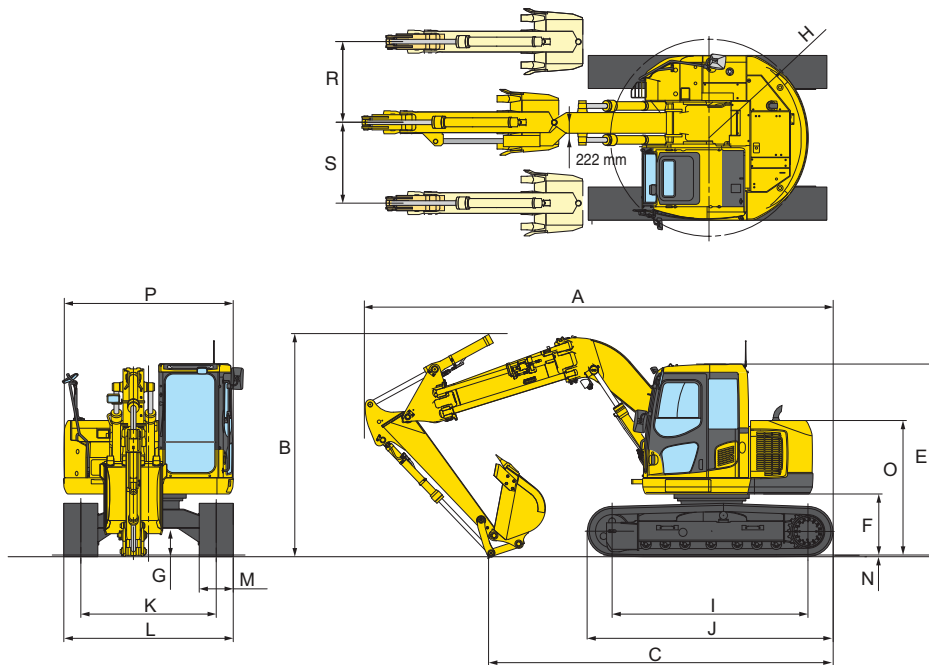
	Arm length	2.100 mm	2.500 mm
A	Transport length	7.460 mm	7.450 mm
B	Overall height (to top of hose)	2.930 mm	3.050 mm
C	Length on ground (transport)	4.935 mm	4.670 mm



**MACHINE DIMENSIONS**

**OFFSET BOOM**

MACHINE DIMENSIONS	OFFSET BOOM
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 Length of track on ground	2.880 mm
J Track length	3.610 mm
K Track gauge	1.990 mm
L Overall track width with 500 mm shoe	2.490 mm
Overall track width with 600 mm shoe	2.590 mm
Overall track width with 700 mm shoe	2.690 mm
M Shoe width	500, 600, 700 mm
N Grouser height	20 mm
O Machine tail height	1.980 mm
P Overall width of upper structure	2.490 mm
(Q) Distance, swing center to rear end (with add. counterweight)	1.545 mm
R Boom offset, right hand	1.150 mm
S Boom offset, left hand	1.170 mm

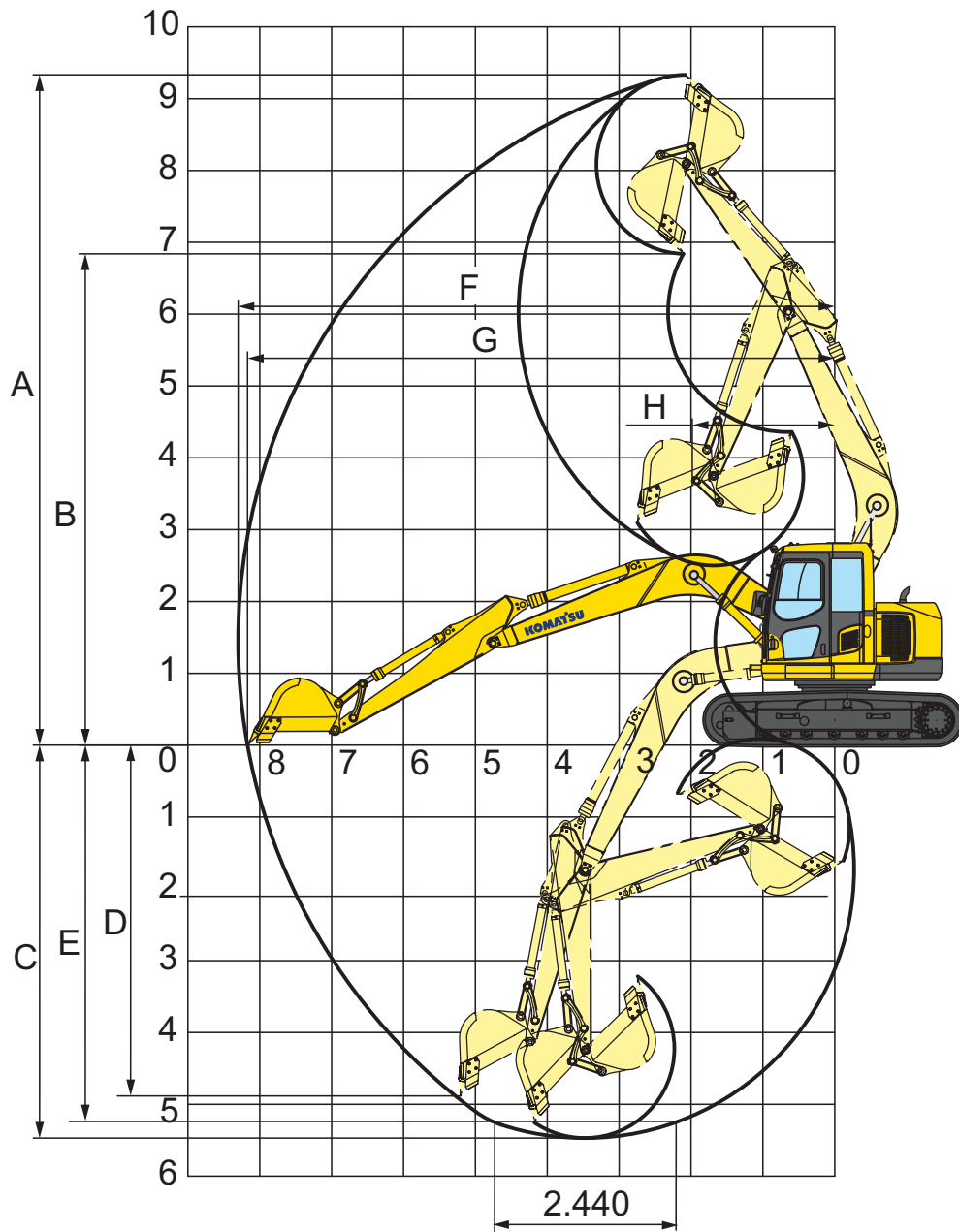


**OFFSET BOOM**

Arm length	2.100 mm
A Transport length	6.800 mm
B Overall height (to top of cylinder)	3.245 mm
C Length on ground (transport)	5.010 mm

# Working Range

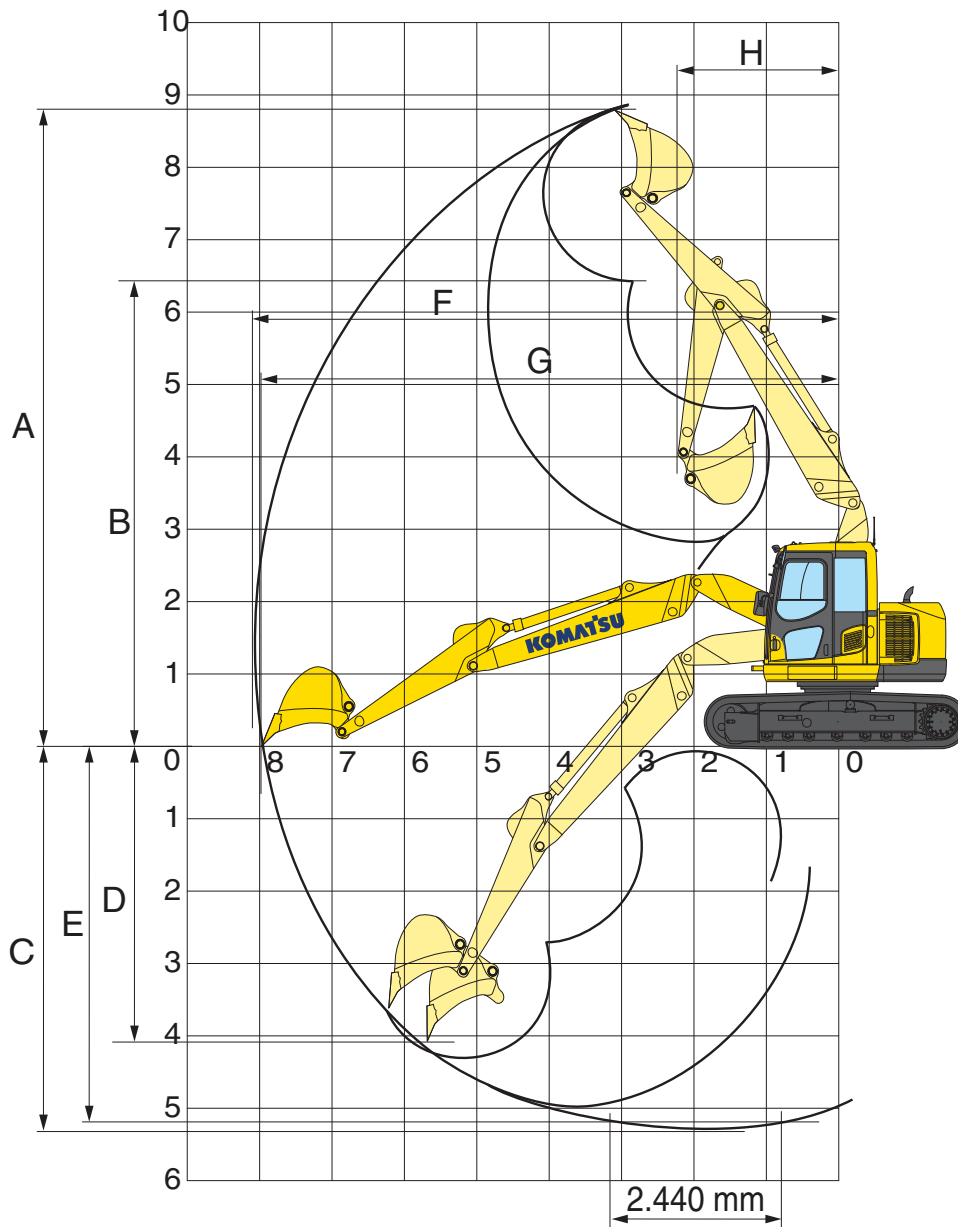
## MONO BOOM



ARM LENGTH	2.100 mm	2.500 mm	3.000 mm
A Max. digging height	9.020 mm	9.340 mm	9.700 mm
B Max. dumping height	6.525 mm	6.840 mm	7.350 mm
C Max. digging depth	5.070 mm	5.480 mm	5.900 mm
D Max. vertical wall digging depth	4.490 mm	4.900 mm	5.340 mm
E Max. digging depth of cut for 2,44 m level	4.830 mm	5.265 mm	5.715 mm
F Max. digging reach	7.930 mm	8.300 mm	8.720 mm
G Max. digging reach at ground level	7.805 mm	8.180 mm	8.600 mm
H Min. swing radius	1.845 mm	1.980 mm	2.265 mm
Bucket digging force (ISO)	9.000 kgf	9.500 kgf	9.000 kgf
Arm crowd force (ISO)	7.300 kgf	6.300 kgf	5.700 kgf



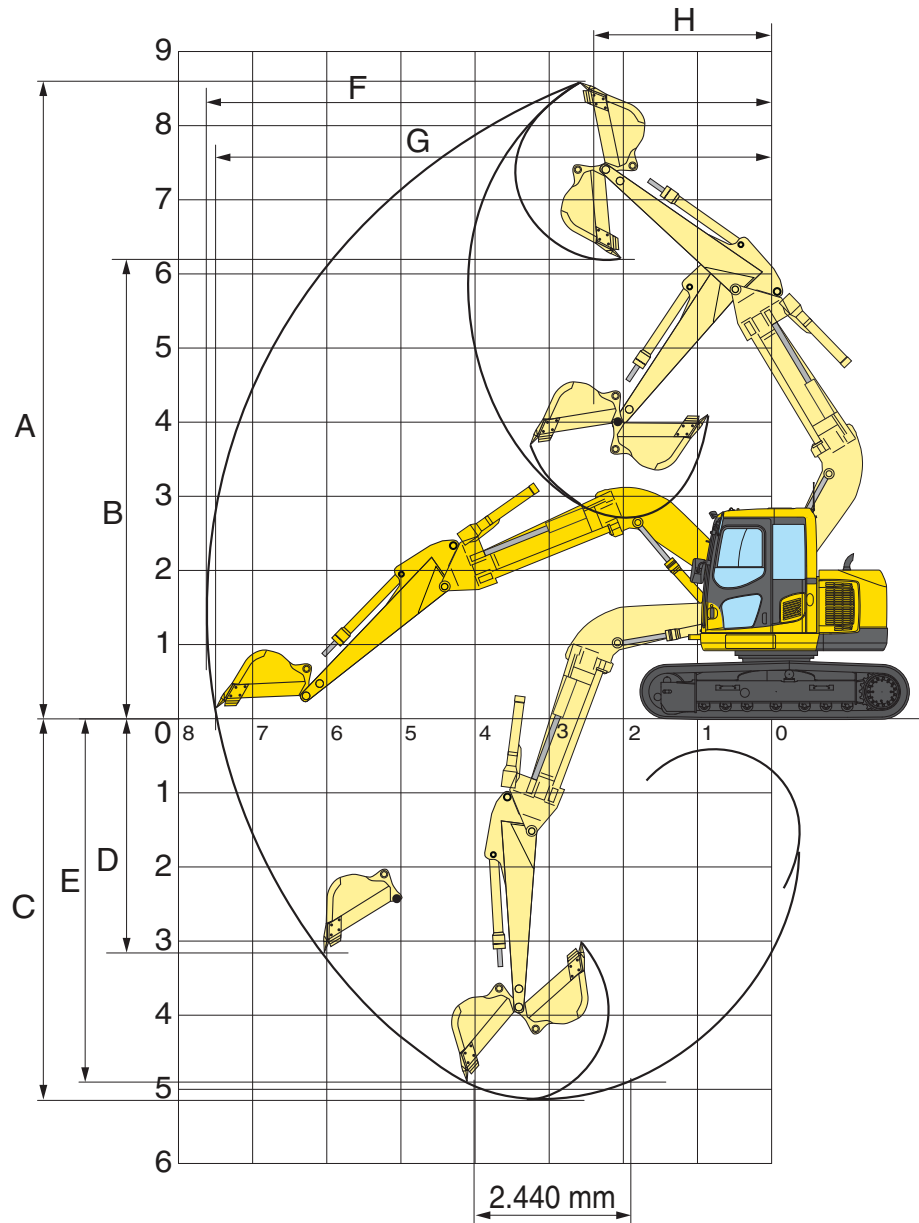
## TWO-PIECE BOOM



ARM LENGTH	2.100 mm	2.500 mm
A Max. digging height	8.845 mm	9.130 mm
B Max. dumping height	6.465 mm	6.750 mm
C Max. digging depth	5.280 mm	5.680 mm
D Max. vertical wall digging depth	3.830 mm	4.400 mm
E Max. digging depth of cut for 2,44 m level	5.165 mm	5.570 mm
F Max. digging reach	8.135 mm	8.510 mm
G Max. digging reach at ground level	8.000 mm	8.380 mm
H Min. swing radius	2.430 mm	2.500 mm

# Working Range

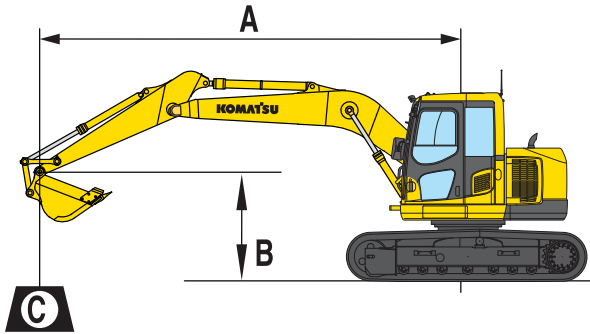
## OFFSET BOOM



ARM LENGTH	2.100 mm
A Max. digging height	8.200 mm
B Max. dumping height	5.900 mm
C Max. digging depth	4.820 mm
D Max. vertical wall digging depth	2.965 mm
E Max. digging depth of cut for 2,44 m level	4.445 mm
F Max. digging reach	7.285 mm
G Max. digging reach at ground level	7.135 mm
H Min. swing radius	2.220 mm



## MONO BOOM



A – Reach from swing center

B – Bucket hook height

C – Lifting capacities, including bucket (450 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

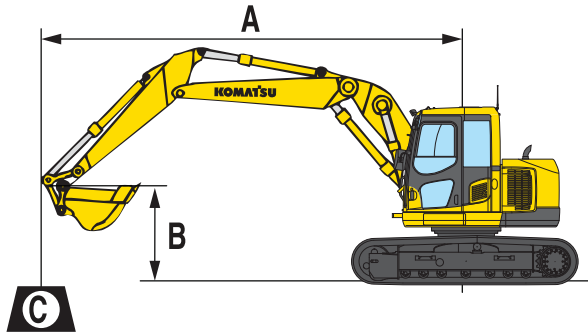
– Rating at maximum reach

Arm length	A				7,0 m		6,0 m		4,5 m		3,0 m		1,5 m	
	B													
 3.000 mm  450 kg 0,5 m <sup>3</sup>	6,0 m	kg	*1.620	*1.620					*2.810	*2.810				
	4,5 m	kg	*1.510	1.480			*2.880	1.930	*3.040	*3.040				
	3,0 m	kg	*1.530	1.260	2.240	1.380	2.960	1.870	*3.730	3.090	*4.970	*4.970		
	1,5 m	kg	*1.630	1.170	2.190	1.330	2.850	1.770	*4.600	2.850	*7.270	5.430		
	0,0 m	kg	*1.860	1.180	2.130	1.280	2.750	1.680	4.380	2.650	*7.350	4.990		
	-1,5 m	kg	2.190	1.310			2.690	1.620	4.270	2.550	*8.020	4.870	*4.070	*4.070
	-3,0 m	kg	2.740	1.660					4.270	2.550	*6.770	4.920	*6.870	*6.870
-4,5 m	kg	*2.500	*2.500							*4.180	*4.180			
 2.500 mm  450 kg 0,5 m <sup>3</sup>	6,0 m	kg	*2.060	*2.060					*3.270	3.220				
	4,5 m	kg	*1.920	1.730			*2.890	1.890	*3.460	3.200	*3.960	*3.960		
	3,0 m	kg	*1.950	1.450			2.940	1.860	*4.140	3.050	*5.870	*5.870		
	1,5 m	kg	*2.120	1.350			2.850	1.780	4.590	2.840	*7.960	5.330		
	0,0 m	kg	2.250	1.370			2.780	1.710	4.300	2.580	*6.750	5.030		
	-1,5 m	kg	2.540	1.550			2.740	1.680	4.340	2.620	*7.740	4.990	*4.710	*4.710
	-3,0 m	kg	*3.130	2.060					*4.160	2.650	*6.140	5.090	*8.310	*8.310
-4,5 m	kg													
 2.100 mm  450 kg 0,5 m <sup>3</sup>	6,0 m	kg	*2.620	*2.620					*3.530	3.150	*3.860	*3.860		
	4,5 m	kg	*2.420	1.950					*3.780	3.150	*4.560	*4.560		
	3,0 m	kg	*2.460	1.610			2.910	1.830	*4.420	3.000	*6.530	5.820		
	1,5 m	kg	2.410	1.490			2.840	1.770	4.550	2.810				
	0,0 m	kg	2.480	1.520			2.780	1.710	4.260	2.560	*6.240	5.000		
	-1,5 m	kg	2.850	1.750					4.230	2.530	*7.300	5.020	*5.280	*5.280
	-3,0 m	kg	*3.190	2.430					*3.660	2.700	*5.440	5.150		
-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

## TWO-PIECE BOOM



- A** – Reach from swing center
- B** – Bucket hook height
- C** – Lifting capacities, including bucket (450 kg), bucket linkage and bucket cylinder

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

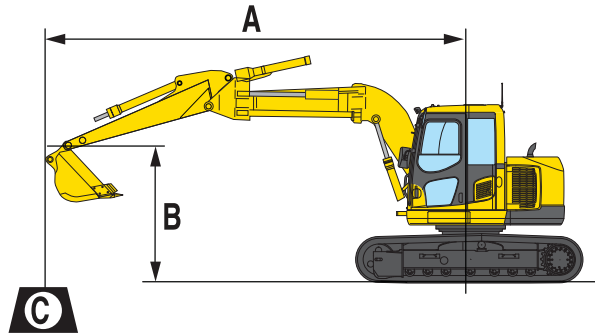
With 500 mm shoes

- Rating over front
- Rating over side
- Rating at maximum reach

Arm length	A				7,5 m		6,0 m		4,5 m		3,0 m		1,5 m	
	B	kg												
 2.500 mm  450 kg 0,5 m <sup>3</sup>	7,5 m	kg	*2.500	*2.500										
	6,0 m	kg	*2.050	*2.050					*3.100	*3.100				
	4,5 m	kg	*1.900	1.550			2.750	2.050	*3.350	*3.350				
	3,0 m	kg	1.800	1.300			2.700	1.950	*4.100	3.250	*5.850	*5.850		
	1,5 m	kg	1.700	1.200	1.700	1.200	2.550	1.850	4.200	3.000				
	0,0 m	kg	1.700	1.200	1.700	1.200	2.450	1.750	4.000	2.800				
	-1,5 m	kg	1.900	1.350			2.400	1.700	3.900	2.700	*7.500	4.600		
	-3,0 m	kg	2.400	1.700			2.450	1.700	3.900	2.700	*7.450	5.300		
	-4,5 m	kg												
 2.100 mm  450 kg 0,5 m <sup>3</sup>	7,5 m	kg	*3.200	*3.200										
	6,0 m	kg	*2.500	2.350					*3.500	*3.500				
	4,5 m	kg	*2.350	1.700			2.700	2.000	*3.700	3.450				
	3,0 m	kg	2.000	1.450			2.650	1.950	4.350	3.200	*6.550	6.300		
	1,5 m	kg	1.850	1.350			2.550	1.850	4.150	2.950				
	0,0 m	kg	1.900	1.350			2.450	1.750	3.950	2.750				
	-1,5 m	kg	2.150	1.500			2.450	1.750	3.900	2.700	*7.750	4.650		
	-3,0 m	kg	2.800	2.000					3.950	2.750	*6.850	5.400		
	-4,5 m	kg												

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 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.




# OFFSET BOOM














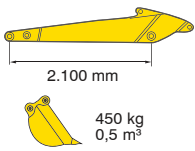


- A** – Reach from swing center
- B** – Bucket hook height
- C** – Lifting capacities, including bucket (450 kg), bucket linkage and bucket cylinder

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													
	6,0 m	kg	*2.140	*2.140							*3.130	*3.130		
	4,5 m	kg	*2.060	*2.060			*2.210	1.810	*3.210	*3.210	*3.160	*3.160		
	3,0 m	kg	*2.190	1.750			*2.890	1.790	*3.780	3.030	*5.070	*5.070		
	1,5 m	kg	*2.530	1.540			2.770	1.670	4.520	2.740				
	0,0 m	kg	2.590	1.530			2.650	1.570	4.250	2.500				
	-1,5 m	kg	2.990	1.750					4.130	2.390	*7.590	4.600		
	-3,0 m	kg	*4.090	2.560					*3.780	2.450	*6.120	4.740	*8.020	*8.020
	-4,5 m	kg												

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 Ratings are based on SAE Standard No. J1097.  
 Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

# Hydraulic Excavator

## PC138US-8

### Standard and Optional Equipment

#### ENGINE

Komatsu SAA4D95LE-5, 72 kW turbocharged common rail direct injection diesel engine, EU Stage IIIA compliant	●
Suction type cooling fan with radiator fly screen	●
Automatic engine warm-up system	●
Engine overheat prevention system	●
Fuel control dial	●
Auto-deceleration function	●
Engine key stop	●
Engine ignition can be password secured on request	●
Alternator 24 V/60 A	●
Starter motor 24 V/4,5 kW	●
Batteries 2 × 12 V/72 Ah	●
Diesel particulate filter	○

#### HYDRAULIC SYSTEM

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydrauMind)	●
Pump and engine mutual control (PEMC) system	●
5-working mode selection system; Power mode, economy mode, breaker mode, attachment mode and lifting mode	●
One additional 2-way full-flow service spool with attachment lines on boom and arm and pedal in cab (HCU A)	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and 3 auxiliary buttons	●
Quick-coupler piping	●
Additional hydraulic circuit	○

#### UNDERCARRIAGE

Track frame under-guards	●
500 mm triple grouser shoes	●
600, 700 mm triple grouser shoes	○
500 mm road-liner (rubber) shoes	○

#### 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	●
Suspension seat with lumbar support, height adjustable arm rests and retractable seat belt	●
Automatic climate control system	●
12 Volt power supply	●
Beverage holder	●
Radio	●
Heated air suspension seat	○
Lower wiper	○

#### SERVICE AND MAINTENANCE

Automatic fuel line de-aeration	●
Double element type air cleaner with dust indicator and auto dust evacuator	●
KOMTRAX™ - Komatsu satellite monitoring system	●
Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit and spare parts for first service	●

#### WORK EQUIPMENT

3,0 m arm, HCU assembly includes piping for one additional function	●
Mono boom	○
Two-piece boom	○
Offset boom	○
2,1 m; 2,5 m; 3,0 m arms (HCU assembly includes piping for one additional function)	○
Dozer blade (with 500 or 600 mm shoes)	○
Komatsu buckets	○
Komatsu breakers	○

#### SAFETY EQUIPMENT

Rear view camera system	●
Electric horn	●
Overload warning device	●
Lockable fuel cap and covers	●
Audible travel alarm	●
Boom safety valves	●
Large handrails, rear-view mirrors	●
Battery main switch	●
Arm safety valve	○
OPG Level II front guard (FOPS)	○
OPG Level II top guard (FOPS)	○

#### 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	●

#### LIGHTING SYSTEM

Working lights: 1 revolving frame and 1 boom (r.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	○

#### OTHER EQUIPMENT

Remote greasing for swing circle and pins	●
Electric refuelling pump with automatic shut off function	●
Standard colour scheme and decals	●
Parts book and operator manual	●
Additional counterweight 500 kg	○

Further equipment on request

- standard equipment
- optional equipment

Your Komatsu partner:

# KOMATSU

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