

Specifications

ENGINE

Model	Komatsu SAA4D95LE-6
Engine power	
at rated engine speed	2.350 rpm
ISO 14396	66,0 kW/88,5 HP
Max. torque/engine speed	320 Nm/1.600 rpm
No. of cylinders	4
Bore × stroke	95 × 115 mm
Displacement	3,3 ltr
Injection system	Common rail direct injection
Electrical system	12 V
Battery	100 Ah
Alternator	120 A
Air filter type	Dry air filter with pre-filter and safety cartridge

TRANSMISSION

Drive system	Hydrostatic transmission, switchable in all directions under full power
Hydrostatic pump	1 variable piston pump
Hydrostatic motor	1 variable piston motor
Speed ranges (forwards/backwards)	2/2
Travel speeds (forwards/backwards) 20 km/h version	
1. speed range	0 - 5,0 km/h
2. speed range	0 - 20 km/h
Travel speeds (forwards/backwards) 30 km/h version	
1. speed range	0 - 6,6 km/h
2. speed range	0 - 30 km/h

CHASSIS AND TYRES

Type	Low build rear axle oscillation for optimum stability and for best performance in earthmoving applications
System	4-wheel drive
Axles	Planetary rigid axles with automatic limited slip differentials in both axles 100% locking differentials as option
Oscillation	Rear axle oscillation for optimum stability, oscillation angle 10°
Tyres	455/70 R20 (standard)

SERVICE REFILL CAPACITIES

Cooling system	13,6 ltr
Fuel tank	130 ltr
Engine oil	11,5 ltr
Hydraulic system	79 ltr
Front axle	10,6 ltr
Rear axle	10,6 ltr
Transfer box	1,3 ltr

BRAKES

Operating brakes	Combined inch brake pedal actuates maintenance free wet-disc type brakes in the front axle. Self-braking via the hydrostatic drive.
Parking brake	Dry disc

HYDRAULIC SYSTEM

System	Open hydraulic system
Working pressure	270 bar
Circulating capacity of the hydraulic pump	75 ltr/min
No. of boom/bucket cylinders	2/1
Type	Double-action
Bore diameter × stroke	
Boom cylinder	80 × 714 mm
Bucket cylinder	100 × 476 mm
Hydraulic control lever	Multifunction lever
Kinematic	Z-Kinematic with highest breakout force. Parallel movement when using dedicated fork tines.
Hydraulic cycle with rated load bucket filling	
Raise time	5,1 s
Lowering time (empty)	3,5 s
Dumping time	1,6 s

STEERING SYSTEM

System	Articulated frame steering
Type	Hydrostatic
Steering angle to either side	42°
Steering pump	Gear pump
Working pressure	175 bar
No. of steering cylinders	2
Type	Double-action
Bore diameter × stroke	60 × 369 mm
Smallest turn (outer edge of the tyre 455/70 R20)	4.210 mm

CABIN

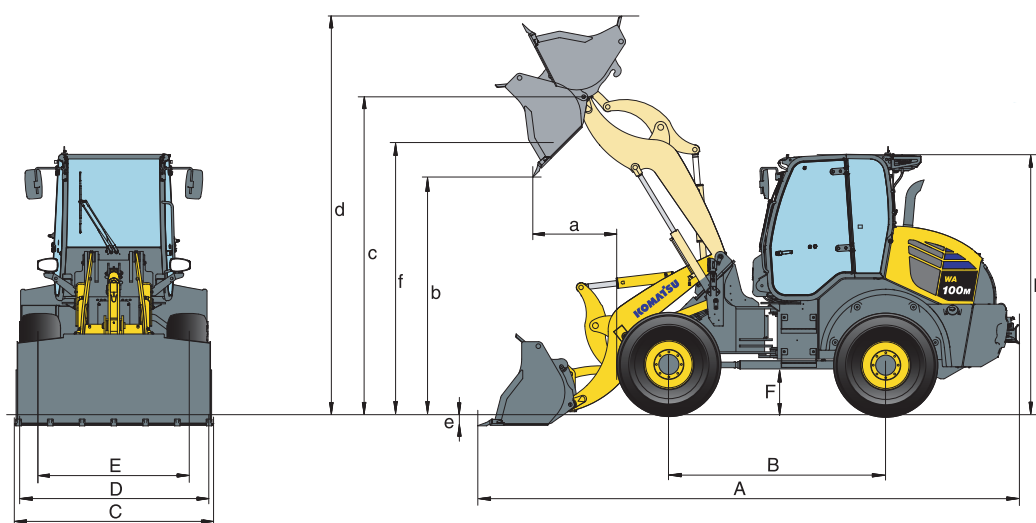
Cabin in conformity with ISO 3471 with ROPS (roll over protective structure) in conformity with SAE J1040c and FOPS (falling object protective structure) in conformity with ISO 3449. The pressurised cabin is mounted upon hydrobearings and is noise dampened. Tilttable for best servicing access.

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IIIB and EPA Tier 4 interim exhaust emission regulations
Noise levels	Noise levels (external/internal) fully comply with 2000/14/EC Stage 2 and 98/37/EC
Vibration levels (EN 12096:1997)*	
Hand/arm	≤ 2,5 m/s ² (uncertainty K = 0,75 m/s ²)
Body	≤ 0,5 m/s ² (uncertainty K = 0,53 m/s ²)

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

Dimensions & Performance Figures



MEASUREMENTS AND WORKING SPECIFICATIONS

		Universal		Light materials		4-in-1	
		w. teeth	w/o teeth	w. teeth	w/o teeth	w/o teeth	w. teeth
Bucket capacity (heaped, ISO 7546)	m³	1,25	1,25	1,4 m³	1,4 m³	1,6	1,05
Sales code		C61	C11	C14	C12	C13	C16
Material density	t/m ³	1,8	1,8	1,5	1,5	1,25	1,8
Bucket weight	kg	440	415	452	427	461	695
Static tipping load, straight	kg	5.900	6.020	6.040	6.065	5.690	5.690
Static tipping load, 40° articulated	kg	5.030	5.140	5.165	5.190	4.840	5.070
Break-out force hydraulic	kN	74,2	74,2	50,2	54,7	58,4	71,7
Lifting capability hydr. at ground level	kN	69,8	69,8	68,6	68,6	69,2	70,2
Operating weight	kg	6.950	6.925	6.960	6.935	6.995	7.230
Turning radius at corner of tyres	mm	4.210	4.210	4.210	4.210	4.210	4.210
Turning radius at bucket edge	mm	4.730	4.730	4.735	4.735	4.745	4.725
a Reach at 45°	mm	940	845	1.035	945	965	960
b Dump height at 45°	mm	2.710	2.730	2.480	2.580	2.560	2.620
c Hinge pin height	mm	3.540	3.540	3.525	3.525	3.540	3.540
d Height top edge of bucket	mm	4.515	4.515	4.515	4.515	4.565	4.510
e Digging depth	mm	130	130	130	130	125	85
f Max. loading height at 45°	mm	3.185	3.185	3.145	3.145	3.100	3.120
A Overall length, bucket grounded	mm	6.000	5.865	6.145	6.005	6.105	6.015
B Wheelbase	mm	2.400	2.400	2.400	2.400	2.400	2.400
C Bucket width	mm	2.200	2.200	2.200	2.200	2.200	2.200
D Width over tyres	mm	2.080	2.080	2.080	2.080	2.080	2.080
E Track width	mm	1.635	1.635	1.635	1.635	1.635	1.635
F Ground clearance	mm	390	390	390	390	390	390
H Overall height	mm	2.885	2.885	2.885	2.885	2.885	2.885

All measurements with tyres 455/70 R20

PERFORMANCE FIGURES WITH FORK TINES

Sales code	C24
Fork tine type	FEM IIA
Fork tine length	mm 1.200
g Max. reach at ground level	mm 850
h Max. reach	mm 1.380
j Max. reach at max. stacking height	mm 565
k Max. height fork-carrier	mm 4.000
l Hinge pin height	mm 3.525
m Max. stacking height	mm 3.320
n Height of forks at maximum reach	mm 1.540
Max. tipping load, straight	kg 4.440
Max. tipping load, articulated	kg 3.785
Max. payload as per EN 474-3, 80%	kg 3.030
Max. payload as per EN 474-3, 60%	kg 2.270
Weight in working order with fork tines	kg 6.840

