

KOMATSU

WA380-6

ENGINE POWER

143 kW / 192 HP @ 2.100 rpm

OPERATING WEIGHT

17.800 kg

BUCKET CAPACITY

3,1 - 4,5 m³

**WA
380**

WHEEL LOADER



WA380-6

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WA380-6

SPECIFICATIONS



ENGINE

Model Komatsu SAA6D107E-1
 Type Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
 Engine power
 at rated engine speed 2.100 rpm
 ISO 14396 143 kW / 192 HP
 ISO 9249 (net engine power) 142 kW / 190 HP
 Max. torque / engine speed 963 Nm / 1.500 rpm
 No. of cylinders 6
 Bore × stroke 107 × 124 mm
 Displacement 6,69 ltr
 Fan drive type Hydraulic
 Lubricating system Gear pump, water-cooled oil cooler, piston cooling nozzles
 Filter Main-flow filter with water separator
 Air-filter type Dry-air filter with automatic dust emission and preliminary purification including a dust display



TRANSMISSION

Type Automatic powershift transmission
 Torque converter One-stage, one-phase, 3-element

Speeds in km/h (with 23.5 R25 tyres)

GEAR	1st	2nd	3rd	4th
Forwards	6,6	11,5	20,2	33,5
with torque converter lock-up	–	–	22	39
Reverse	7,1	12,3	21,5	35,3
with torque converter lock-up	–	–	22	39



CHASSIS AND TYRES

System 4-wheel drive
 Front axle Komatsu HD axle, semi-floating, (LSD-differential optional)
 Rear axle Komatsu HD axle, semi-floating, 26° swing angle (LSD-differential optional)
 Differential Straight bevel gear pair
 Final drive Planetary gear in an oil bath
 Tyres 23.5 R25



SERVICE REFILL CAPACITIES

Cooling system 30,5 ltr
 Fuel tank 300 ltr
 Engine oil 25,5 ltr
 Hydraulic system 139 ltr
 Front axle 40 ltr
 Rear axle 40 ltr
 Torque converter and transmission 47 ltr



BRAKES

Operating brakes Hydraulically actuated, wet multi-disc brakes on all wheels
 Parking brake Wet multi-disc
 Emergency brake Uses the parking brake



HYDRAULIC SYSTEM

Type Komatsu CLSS (Closed Centre Load Sensing System)
 Hydraulic pump Variable piston pump
 Working pressure 320 bar
 Maximum pump flow 205,5 ltr/min
 No. of hydraulic/bucket cylinders 2/1
 Type Double-action
 Bore diameter × stroke
 Boom cylinder 130 × 713 mm
 Bucket cylinder 150 × 535 mm
 Hydraulic cycle with rated load bucket filling
 Raise time 6,0 s
 Lowering time (empty) 3,3 s
 Dumping time 1,8 s



STEERING SYSTEM

System Articulated frame steering
 Type Completely hydraulic power steering
 Steering angle to either side 37°
 Steering pump Variable piston pump
 Working pressure 250 bar
 Pumping capacity 137,7 ltr/min
 No. of steering cylinders 2
 Type Double-action
 Bore diameter × stroke 75 × 442 mm
 Smallest turn (outer edge of the tyre 23.5 R25) 6.660 mm



CABIN

Two-door SpaceCab™ 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 air-conditioned pressurised cabin is mounted upon hydrobearings and is noise dampened.

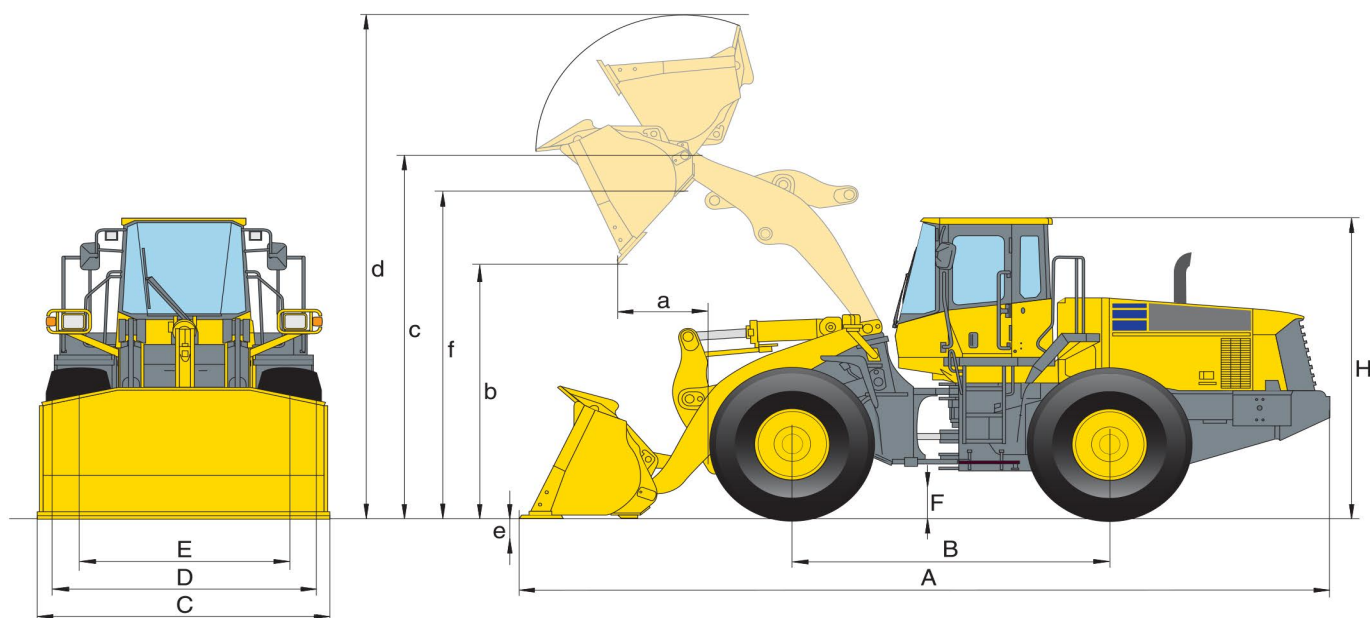


ENVIRONMENT

Engine emissions Fully complies with EU Stage IIIA and EPA Tier III exhaust emission regulations
 Noise levels
 LwA external 106 dB(A) (2000/14/EC Stage 2)
 LpA operator ear 72 dB(A) (ISO 6396 dynamic test)

WA380-6 WHEEL LOADER

DIMENSIONS AND PERFORMANCE FIGURES



Measurements and working specifications

Bucket type		Universal			Earthmoving			Stockpile	
		w/o teeth	with teeth	with BOC	w/o teeth	with teeth	with BOC	w/o teeth	with teeth
Bucket capacity (heaped, ISO 7546)	m³	3.1	3.1	3.25	3.1	3.1	3.25	3.45	3.45
Sales code	3944-	C01	C02	C03	C41	C42	C45	C36	C35
Material density	t/m³	1.8	1.8	1.8	1.8	1.8	1.8	1.75	1.75
Bucket weight	kg	1.420	1.480	1.640	1.540	1.600	1.725	1.690	1.750
Static tipping load, straight	kg	15.300	15.220	14.905	15.165	15.085	14.805	15.025	14.945
Static tipping load, 37° articulated	kg	13.595	13.515	13.210	13.455	13.380	13.110	13.355	13.235
Break-out force hydraulic	kN	173	172	161	172	172	161	165	165
Lifting capability hydr. at ground level	kN	177	177	175	177	177	175	175	175
Operating weight (without add. counterw.)	kg	17.570	17.630	17.790	17.690	17.750	17.875	17.840	17.890
Turning radius at corner of tyres	mm	6.660	6.660	6.660	6.660	6.660	6.660	6.660	6.660
Turning radius at bucket edge	mm	7.190	7.250	7.215	7.190	7.250	7.215	7.200	7.265
a Reach at 45°	mm	1.130	1.290	1.165	1.130	1.290	1.165	1.165	1.325
b Dump height at 45°	mm	2.990	2.830	2.915	2.990	2.830	2.915	2.955	2.795
c Hinge pin height	mm	4.095	4.095	4.095	4.095	4.095	4.095	4.095	4.095
d Height top edge of bucket	mm	5.465	5.465	5.465	5.465	5.465	5.465	5.565	5.565
e Digging depth	mm	80	80	110	80	80	110	80	80
f Max. loading height at 45°	mm	3.810	3.810	3.810	3.810	3.810	3.810	3.810	3.810
A Overall length, bucket grounded	mm	8.105	8.330	8.200	8.105	8.330	8.200	8.155	8.380
B Wheelbase	mm	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300
C Bucket width	mm	2.915	2.915	2.925	2.915	2.915	2.925	2.915	2.915
D Width over tyres	mm	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765
E Track width	mm	2.160	2.160	2.160	2.160	2.160	2.160	2.160	2.160
F Ground clearance	mm	450	450	450	450	450	450	450	450
H Overall height	mm	3.390	3.390	3.390	3.390	3.390	3.390	3.390	3.390

All measurements with tyres 23.5 R25. Details of dumping heights and reach to cutting edge or bolt-on cutting edge.

WHEEL LOADER

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	Heavy Duty				Universal (Quick coupler mount*)			Universal (High-lift)
	with BOC	w/o teeth	with teeth	with BOC	w/o teeth	with teeth	with BOC	w/o teeth
	3.6	3.0	3.0	3.2	3.1	3.1	3.25	3.1
	C37	C28	C29	C30	C61	C62	C63	C01
	1.6	1.8	1.8	1.8	1.8	1.8	1.75	1.5
	1.910	1.680	1.740	1.900	1.280	1.360	1.500	1.420
	14.640	15.080	15.000	14.690	14.470	14.355	14.090	11.560
	12.940	13.365	13.290	12.990	12.815	12.700	12.445	10.200
	155	184	184	172	145	145	137	163
	174	178	178	177	163	164	163	147
	18.060	17.830	17.890	18.050	17.940	18.020	18.160	17.910
	6.660	6.660	6.660	6.660	6.660	6.660	6.660	6.660
	7.230	7.170	7.230	7.195	7.240	7.305	7.270	7.810
	1.200	1.070	1.230	1.105	1.310	1.470	1.340	1.215
	2.880	3.040	2.880	2.970	2.850	2.690	2.775	3.520
	4.095	4.095	4.095	4.095	4.095	4.095	4.095	4.625
	5.565	5.460	5.460	5.460	5.640	5.640	5.640	6.000
	110	85	85	115	50	50	80	135
	3.810	3.800	3.800	3.800	3.700	3.700	3.700	4.325
	8.250	8.030	8.255	8.125	8.305	8.530	8.405	8.700
	3.300	3.300	3.300	3.300	3.300	3.300	3.300	3.300
	2.925	2.915	2.915	2.925	2.915	2.915	2.925	2.915
	2.765	2.765	2.765	2.765	2.765	2.765	2.765	2.765
	2.160	2.160	2.160	2.160	2.160	2.160	2.160	2.160
	450	450	450	450	450	450	450	450
	3.390	3.390	3.390	3.390	3.390	3.390	3.390	3.390

* Market compatible

WA380-6

WHEEL LOADER

STANDARD EQUIPMENT

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| <ul style="list-style-type: none"> • Komatsu SAA6D107E-1 turbocharged common rail direct injection diesel engine, EU Stage IIIA/EPA Tier III compliant • Alternator 60 A/24 V • Starter motor 5,5 kW/24 V • Batteries 143 Ah/2 × 12 V • Counterweight • Electronically controlled, load stabiliser (ECSS) 2nd generation • Hydrostat-driven radiator fan with reversing function • 2-spool main control valve • PPC fingertip control, two levers • Central automatic lubrication • Fully hydraulic brake system • Engine cooling fluid corrosion resistor | <ul style="list-style-type: none"> • Water separator • Heavy-duty axles • Electronically controlled ECMV automatic transmission with mode selector and variable transmission cut-off • Working mode selection system • Komtrax™ Komatsu tracking system • EMMS (Equipment Management Monitoring System) with self-diagnostic function and maintenance display • SpaceCab™ ROPS/FOPS hyper viscous mounted cab with two doors, tinted safety glass windows, front window wiper with intermittent feature, rear window wiper, | <ul style="list-style-type: none"> sun visor, cigarette lighter, ashtray, luggage shelf, floor mat, hot and cool box, heated rear window, vertically and horizontally adjustable steering column, rear view mirror • Air-suspended, heated seat with seat belt (EU standard) • Air conditioning • CD-radio • 2 halogen main headlights • 2 spotlights at front and rear • Reversing light • Horn • Handrails on left/right • Front fenders • External fluid drains • Emergency steering system • Vandalism protection | <p>The WA380-6 is equipped in accordance with the safety regulations of the machinery guidelines 89/392 EWG ff and EN474.</p> |
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OPTIONAL EQUIPMENT

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| <ul style="list-style-type: none"> • High-lift equipment • Add. counterweight 325 kg • Additional side counterweight 200 kg • 3-spool main control valve • Limited-slip differential (LSD) front and rear • Torque converter lock-up • 20 or 25 km/h speed limitation (not with torque converter lock-up) • Super DeLuxe air-suspended, heated seat with seat belt (EU standard) • Hydrostat-driven radiator fan with automatic reversing function • Wide core radiator • Joystick steering with integrated F/R transmission function, 2-stage | <ul style="list-style-type: none"> • Tyres 23.5 R25 L2, 3, 4, 5 • Tyres 650/65 R25 • Universal bucket 3,1 m³ • Universal bucket 3,25 m³ • Universal bucket (quick coupler mount) 3,1 m³ • Universal bucket (quick coupler mount) 3,25 m³ • Earthmoving bucket 3,1 m³ • Earthmoving bucket 3,25 m³ • Stock pile bucket 3,45 m³ • Stock pile bucket 3,6 m³ • Heavy-duty bucket 3,0 m³ • Heavy-duty bucket 3,2 m³ • High dump bucket • Light material bucket • Log grapples • Special buckets • Various tooth systems, BOC, segments, Komatsu Kmax/ KVX™ and other optional | <ul style="list-style-type: none"> bucket accessories are available on request • Hydraulic quick coupler • Batteries 180 Ah/2 × 12 V • PPC control, 1-lever (Multi-function lever) • Electronic 2-lever control (EPC) including: <ul style="list-style-type: none"> - Bucket stop modulation - Boom stop pre-setting - Semiautomatic dig function • Filling tool for central lubrication system • Climate control • 12 Volt power supply • Sun roller blind • Back-up alarm • Back-up alarm (white noise version) • Optical back-up alarm (strobe light) | <ul style="list-style-type: none"> • Beacon light • Roof rail • Roof rail and step light • Additional lights front and rear • Additional convex rear view mirror • Cold area kit (engine and cab pre-heating) • Turbo II pre-filter • Electronic anti-theft lock • Full rear fenders • Battery main switch • Fire extinguisher • Biodegradable oil for hydraulic system • Special paintwork • Anti-corrosion specification • Waste-handler specification • Tool-set <p>Further equipments on request</p> |
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KOMATSU

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