

KOMATSU

WA170M-11



Wheel loader

Engine power
95.5 kW / 128 HP @ 2000 rpm

Operating weight
9580 - 10575 kg

Bucket capacity
1.5 - 1.7 m³

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Safety, reliability & durability

- High-definition rear-view monitor
- Low transportation height
- Contrasting colour steps
- Full LED working light options
- External seat belt indication lamp (option)

A compact loader with big-machine attitude



Power, performance & efficiency

- 96 kW EU Stage V engine with long-life DPF with 9000 h cleaning interval
- Load-sensing hydraulic system
- Highly efficient hydrostatic drive line
- Tool linkage or Z-bar boom (option)
- High efficiency bucket options
- High flow for 3rd auxiliary circuit (160 l/min at 220 bar)

Comfort & operational ease

- Remastered cab with high comfort operator seat
- Console swing-mounted to the seat
- Adjustable auto-idle stop
- Komatsu Short-Lever Steering (K-SLS) (option)
- Optional "Loading efficiency package": Return-to-dig, boom kick-out & bucket dump counter

Easy maintenance & accessibility

- Tilttable cab & tilttable one-piece engine hood
- Wide core radiator with swing-out fan
- Ground level access to daily maintenance points
- Komtrax – Komatsu wireless monitoring system
- Front step for windshield cleaning

Powerful and environmentally friendly



Komatsu engine and HST driveline

The powerful, low-consumption engine greatly enhances the machine's efficiency. Combined with an advanced hydrostatic driveline, it delivers exceptional performance while ensuring superior operator comfort and seamless shifting. An optional 2-motor system (40 km/h version) is available. At low speeds, both motors engage for maximum torque. At high speeds, a clutch disengages the low-speed motor, reducing drag and improving fuel efficiency.

Adjustable idle shutdown

The Komatsu auto idle shutdown automatically turns off the engine after it idles for a set period of time. This feature can easily be programmed in the full digital dashboard, to reduce unnecessary fuel consumption and exhaust emissions, and to lower operating costs. An implemented efficiency guidance on the cab monitor further encourage efficient operations.

Environmentally friendly

The engine's ultra-low emissions reduce environmental impact while delivering superior performance to lower operating costs and ensure the operator's peace of mind.



The WA170M-11 is HVO-ready and, like all new Komatsu wheel loaders, comes with an initial fill of HVO diesel. Its dependable after-treatment system features a long-life DPF with a 9000-hour cleaning interval and a Selective Catalytic Reduction (SCR) system.

Total versatility

Compact dimensions and high productivity

The compact WA170M-11 offers the lowest transport height while delivering the performance of a larger wheel loader. The optimised tool linkage ensures superior loading performance and excellent visibility of attachments. It maintains high tilt-back torque across all boom positions, allowing for the handling of heavy, demanding attachments. Moreover, the high-efficiency buckets elevate the machine's performance to a whole new level.

Highest flexibility

Designed for versatile operation in all environments, the machine is equipped with state-of-the-art base features. These include high-flow and auto-inch functions for auxiliary hydraulic circuits, as well as load-sensing hydraulics for superior loading performance. This advanced hydraulic system maximises efficiency and responsiveness, adapting seamlessly to a range of tasks, whether for heavy lifting, precise control, or demanding conditions.

Optimal jobsite safety

Safety features on the Komatsu WA170M-11 comply with the latest industry standards and work in synergy to minimise risks to people in and around the machine. Enhanced visibility, along with a seatbelt caution indicator and back-up alarm, contribute to increased jobsite safety. Serrated steps, catwalks with safety harness tie-off points, and large handrails ensure safe and easy access to the cab and maintenance checkpoints.



Tool linkage or Z-bar boom (option)



High flow for 3rd auxiliary circuit
(160 l/min at 220 bar)



Komatsu-designed high efficiency buckets

First-class comfort



Highest safety through best visibility

Improved visibility of front attachments due to the new tool linkage. The all-glass cab enables the operator to have exceptional surrounding awareness, increasing safety on narrow and crowded job sites. Auto climate control and a heated rear window, in combination with an optional additional mirror in the cab, ensure optimal visibility.

High-definition rear-view monitor

The 7-inch high-definition rear-view monitor offers a crystal-clear display, providing excellent visibility behind the machine. Guiding lines assist with precise manoeuvring, even in narrow areas. This feature ensures the operator has a comprehensive view, improving safety and operational efficiency during tasks requiring fine control.



Komatsu Short-Lever Joystick Steering (K-SLS) (option)



PPC multifunction lever with electronic control for 3rd hydraulic auxiliary circuit



Integrated right-hand console moves with operator seat for outstanding operator comfort

Highest operator comfort

The ergonomically improved cab comes with a sliding window. A seat-mounted console, adjustable to the operator's needs, provides exceptional comfort. The optional joystick steering (K-SLS) and newly introduced high-comfort seat reduce operator stress on long working days.

Full digital dashboard

A new full digital dashboard machine monitor displays all relevant machine data with seamless at-a-glance accessibility. All instruments are perfectly visible day and night, thanks to the adaptive brightness and illuminated right-hand side console switches.

Easy operation

The Komatsu driver environment follows the same simple layout as found in all Komatsu compact wheel loaders. The PPC multifunction lever includes an electronically controlled 3rd auxiliary hydraulic circuit and a standard directional switch. The "Loading efficiency" package (Automatic return-to-dig, Boom kick-out, and Bucket dump counter) and the work equipment auto-inch function are optionally available, further improving handling.



Tool control

The tool control system simplifies the use of various hydraulic attachments that require specific flow and pressure settings. It allows the selection of up to 14 pre-defined attachments for quick, safe operation and effortless changes. This system reduces stress on the machine, optimises fuel efficiency, and minimises the risk of incorrect attachment use.

Attachment Setting			
ATT 1	COMPACTION P	150 % 16.0 MPa	20 % 8.0 MPa
ATT 2	BROOM	70 % 16.0 MPa	40 % 10.0 MPa
ATT 3	ROAD MILLER	160 % 22.0 MPa	75 % 18.0 MPa
ATT 4	ATTACHMENT4	160 % 22.0 MPa	80 % 22.0 MPa
ATT 5	ATTACHMENT5	160 % 22.0 MPa	80 % 22.0 MPa
ATT 6	ATTACHMENT6	160 % 22.0 MPa	80 % 22.0 MPa
ATT 7	ATTACHMENT7	160 % 22.0 MPa	80 % 22.0 MPa

Easy maintenance

A reliable partner

Komatsu compact wheel loaders are known around the world for their robustness and durability. All maintenance and service is performed easily and quickly thanks to their unique tilting cab.

The engine hood can be opened widely for a quick daily inspection, the electric equipment is well protected behind a maintenance cover inside the cab, and the easy-to-clean radiator is

conveniently accessible. A compartment for battery, main switch and relays improves maintenance access to the electrical system.



Front step for windshield cleaning



Wide core radiator with swing-out fan



Ground level access to daily maintenance points





Tie-off points for safe maintenance

The design allows for easy cleaning of the front window and convenient access to the engine and aftertreatment systems. It also ensures safe working at height, in full compliance with safety regulations.



Fine mesh air intake grids

The pre-filtration adds an extra layer of protection, preventing clogging of engine air intake filters, even in demanding environments like Waste & Recycling applications.



Radiator self-cleaning (option)

The automatic radiator fan reverse function allows users to set the cleaning duration and interval, ensuring optimal performance in varying working conditions. This feature extends machine availability in harsh environments and reduces the need for manual cleaning of the engine compartment.

Digital assistance & guidance



KOMTRAX

The way to higher productivity

Komtrax turns telematics data into actionable insights for your fleet and equipment, empowering your business to make well-informed, data-driven decisions. By creating a tightly integrated web of support, Komtrax allows for proactive and preventive maintenance to minimise downtime and facilitate peak machine performance.

Specifications

Engine

Model	Komatsu SAA4D101E-1WHA
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2000 rpm
ISO 14396	95.5 kW / 128 HP
Max. torque/engine speed	550 Nm / 1500 rpm
No. of cylinders	4
Bore × stroke	101 × 120 mm
Displacement	3.8 l
Air-filter type	Dry air filter with pre-filter and safety cartridge
Fuel	Diesel fuel, conforming to EN590 Class 2/ Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

Transmission

Drive system	Hydrostatic transmission
Hydrostatic pump	1 variable piston pump
Hydrostatic motor	
20 km/h version	1 variable piston motor
40 km/h version	2 variable piston motors
Speed ranges (forwards/backwards)	2/2
Max. travel speeds (forwards/backwards) 20 km/h version	
1. speed range	0 - 7.0 km/h
2. speed range	0 - 20.0 km/h
Creep	0 - 10.0 km/h
Max. travel speeds (forwards/backwards) 40 km/h version	
1. speed range	0 - 15 km/h
2. speed range	0 - 40 km/h
Creep	0 - 10 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 100% locking differentials in both axles
Oscillation	Rear axle oscillation for optimum stability, oscillation angle 10°
Tyres	17.5 R25

Cab

Cab 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 cab is mounted upon rubber bearings and is noise dampened. Tilttable for best servicing access.

Brakes

Type	Dual circuit hydraulic braking system supplied from a separate gear pump, actuated by combined inch brake pedal
Operating brakes	Pedal actuated wet multi-disc brakes integrated in both axles
Parking brake	Electrically actuated wet multi-disc brake integrated in front axle, spring actuated, hydraulically released

Hydraulic system

System	Closed center load-sensing system
Hydraulic pump	Variable piston pump
Working pressure (max.)	
Z-bar	206 bar
Tool linkage	270 bar
Max. pump flow	160 l/min
No. of boom/bucket cylinders	2/1
Type	Double-action
Bore diameter × stroke	
Boom cylinder (Z-bar)	110 × 628 mm
Bucket cylinder (Z-bar)	100 × 452 mm
Boom cylinder (Tool linkage)	110 × 659 mm
Bucket cylinder (Tool linkage)	125 × 450 mm
Hydraulic control lever	Multifunction lever
Hydraulic cycle with rated load bucket filling	
Raise time	5.1 s (Z) / 5.0 s (TL)
Lowering time (empty)	3.6 s (Z) / 3.9 s (TL)
Dumping time	1.1 s (Z) / 1.2 s (TL)

Steering system

System	Articulated frame steering
Type	Hydraulic
Steering angle to either side	40°
Steering pump	Variable piston pump
Working pressure	190 bar
No. of steering cylinders	2
Type	Double-action
Bore diameter × stroke	55 × 375 mm
Smallest turn (outer edge of tyre 17.5 R25)	4700 mm

Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	102 dB(A) (2000/14/EC Stage II)
LpA operator ear	72 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm	$\leq 2.5 \text{ m/s}^2$ (uncertainty K = 0.75 m/s^2)
Body	$\leq 0.5 \text{ m/s}^2$ (uncertainty K = 0.53 m/s^2)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.5 kg, CO ₂ equivalent 2.15 t.	

Service refill capacities

Cooling system	18.0 l
Fuel tank	160 l
Engine oil	15.1 l
Hydraulic system	85 l
Front axle (planetary / differential)	2 × 2.1 / 13.0 l
Rear axle (planetary / differential)	2 × 2.1 / 13.0 l
Transfer (20 km/h / 40 km/h)	2.8 / 3.2 l
AdBlue® tank	20 l



Dimensions and performance figures

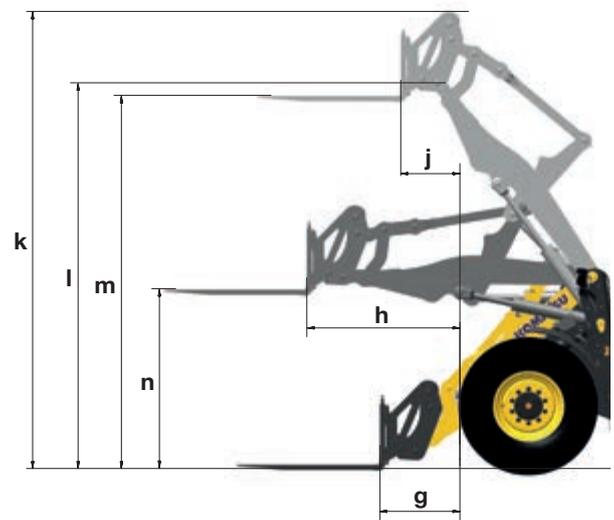
Measurements and working specifications

Boom type		Tool linkage				Z-bar		
Bucket type		Standard w. teeth	Standard w/o teeth	Standard w. BOC	Efficiency* w. teeth	Efficiency* w. BOC	Standard w/o teeth	Standard w. BOC
Bucket capacity (heaped, ISO 7546)	m³	1.60	1.60	1.65	1.65	1.70	1.50	1.60
Material density	t/m ³	1.8	1.8	1.8	1.8	1.8	1.8	1.8
Bucket weight	kg	582	552	616	626	681	533	626
Static tipping load, straight	kg	8000	8000	8000	8100	8100	9000	9000
Static tipping load, 40° articulated	kg	7000	7000	7000	7200	7200	8000	8000
Break-out force hydraulic	kN	68.4	68.4	65.0	64.0	62.0	70.0	67.0
Lifting capability hydr. at ground level	kN	79.8	79.8	76.0	75.0	72.0	58.0	55.0
Operating weight	kg	10220	10190	10255	10520	10575	9485	9580
Turning radius at corner of tyres	mm	4700	4700	4700	4700	4700	4700	4700
Turning radius at bucket edge	mm	5210	5190	5210	5235	5225	5220	5180
a Reach at 45°	mm	820	950	970	990	990	945	970
b Dump height at 45°	mm	2875	2940	2900	2820	2865	2755	2700
c Hinge pin height	mm	3815	3815	3815	3815	3815	3500	3500
d Height top edge of bucket	mm	4880	4880	4880	5025	5025	4540	4540
e Digging depth	mm	120	100	120	100	120	50	70
f Max. loading height at 45°	mm	3410	3410	3410	3410	3390	3190	3190
A Overall length, bucket grounded	mm	6495	6370	6410	6550	6465	6105	6255
B Wheelbase	mm	2600	2600	2600	2600	2600	2600	2600
C Bucket width	mm	2250	2250	2250	2250	2250	2390	2390
D Width over tyres	mm	2190	2190	2190	2190	2190	2190	2190
E Track width	mm	1730	1730	1730	1730	1730	1730	1730
F Ground clearance	mm	430	430	430	430	430	430	430
H Overall height	mm	3000	3000	3000	3000	3000	3000	3000

* with add. counterweight

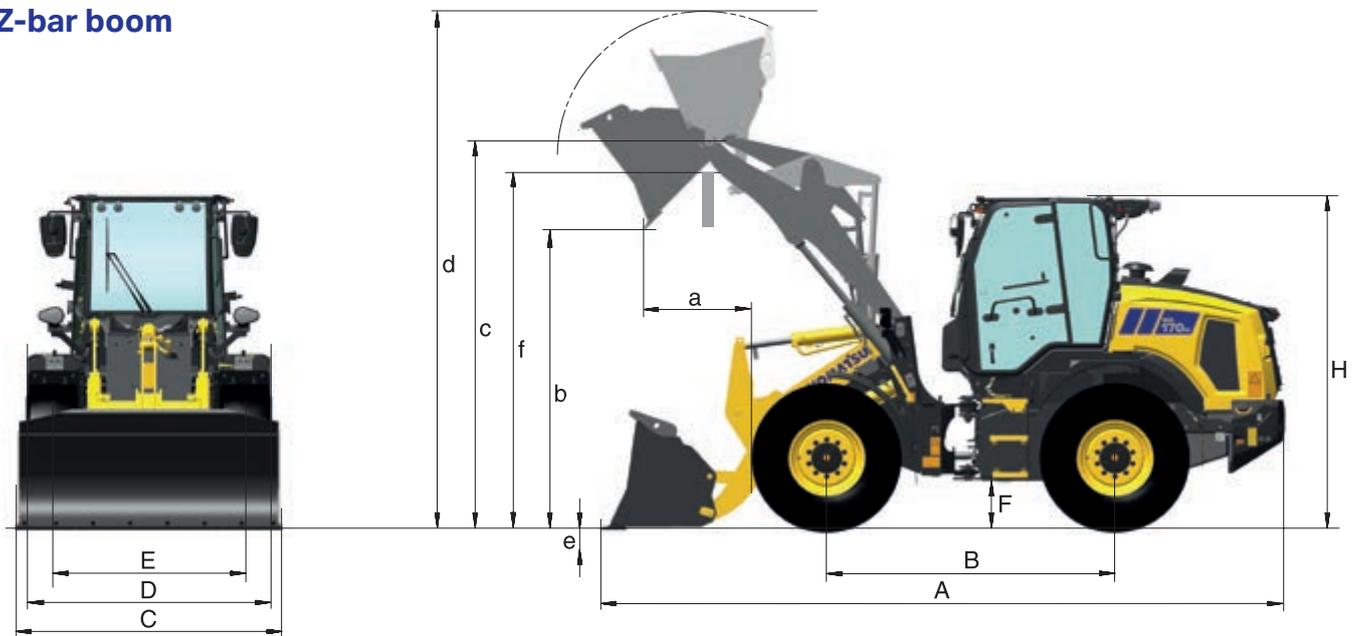
Performance figures with fork tines (tool linkage)

Fork tine type		Std
Fork tine length	mm	1400
Fork weight	kg	423
g Max. reach at ground level	mm	780
h Max. reach	mm	1500
j Max. reach at max. stacking height	mm	575
k Max. height fork-carrier	mm	4370
l Hinge pin height	mm	3815
m Max. stacking height	mm	3685
n Height of forks at max. reach	mm	1780
Max. tipping load, straight	kg	6040
Max. tipping load, articulated	kg	5270
Max. payload as per EN 474-3, 80%	kg	4200
Max. payload as per EN 474-3, 60%	kg	3160
Weight in working order with fork tines	kg	10060

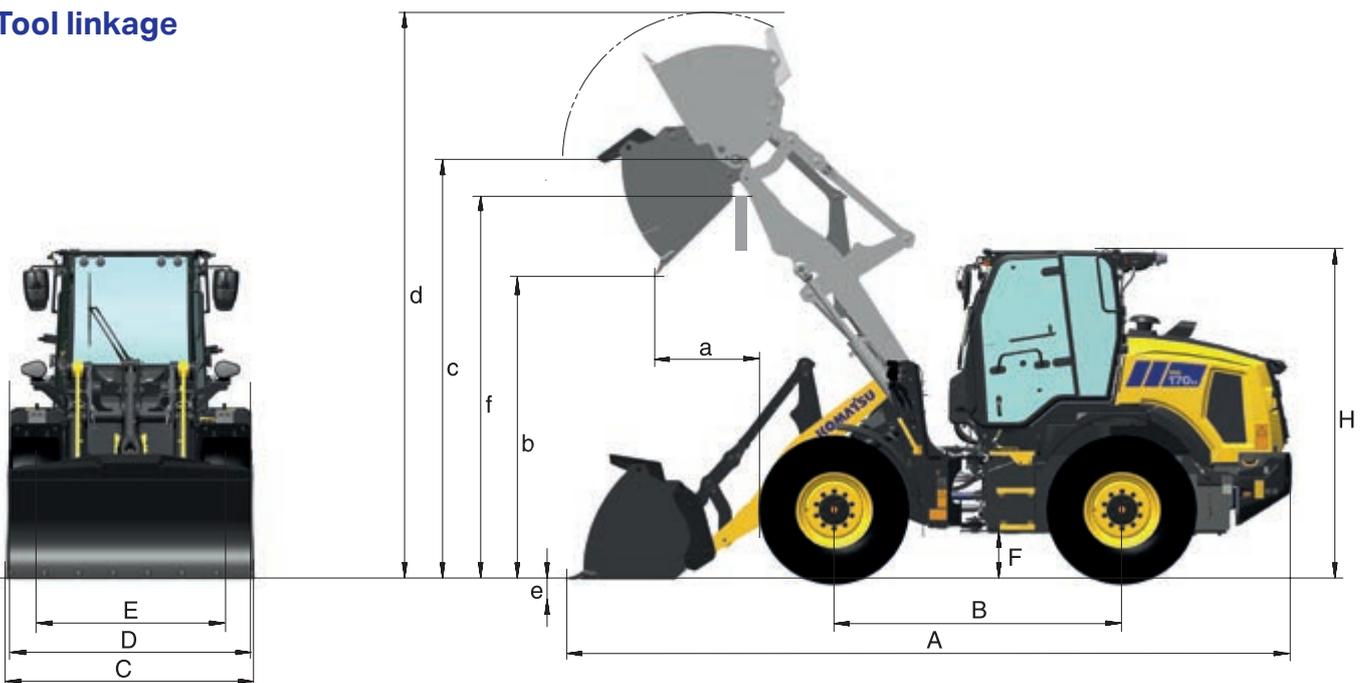


All measurements with tyres 17.5 R25 and air conditioning

Z-bar boom



Tool linkage



Standard and optional equipment

Engine

Komatsu SAA4D101E-1WHA turbocharged common rail direct injection diesel engine	●
EU Stage V compliant	●
Komatsu Diesel Particulate Filter (KDPF)	●
Selective Catalytic Reduction (SCR)	●
Adjustable idle shutdown	●
Fuel filter with water separator	●
Alternator 150 A / 12 V	●
Starter motor 4.7 kW / 12 V	●
Battery 100 Ah / 12 V	●

Transmission and brakes

Combined inch/brake pedal	●
Electronically controlled HST with 1-motor system (20 km/h)	○
Electronically controlled HST with 2-motor system (40 km/h)	○
Creeping function	○

Chassis and tyres

Heavy-duty axles	●
100% manual locking differentials front and rear	●
Front fenders, long	●
Full rear fenders	●
Tyres 17.5 R25 L3, L5	○
Tyres 500/70 R24, 550/65 R25, 600/55 R26.5	○
Front and rear fender extension options	○

Hydraulic system

PPC multi-function lever with sliding proportional control for attachments	●
Hydraulic auto-inch for additional hydraulic lines	●
High-flow, 3rd hydraulic auxiliary circuit	●
Electronic control for 3rd hydraulic auxiliary circuit	●
Electronic control for 4th hydraulic auxiliary circuit	○
Auto-inch for work equipment	○
Loading efficiency package, including:	
- Automatic return-to-dig	○
- Boom kick-out function	○
- Bucket dump counter	○
Biodegradable oil for hydraulic system	○
3rd hydraulic auxiliary circuit, rear	○
4th hydraulic auxiliary circuit, rear	○
Hydraulic drain line for attachment, front	○
Hydraulic drain line for attachment, rear	○
Tool control	○

Cab

Spacious double door driver's cab	●
ROPS/FOPS frame according to SAE/ISO	●
Tilttable cab	●
Comfort seat, 2-point seat belt, upholstery black textile fabric	●
Right-hand console, swing-mounted to seat, adjustable	●
Electric parking brake switch & electric work equipment lock switch	●
Automatic climate control system	●
Preparation for protective cab ventilation system	●
Digital machine monitor with efficiency guidance	●
Open storage tray, storage box & mobile phone holder	●
Heated rear window	●
Front and rear window wiper	●
Sliding window, door (l.h.)	●
2× 12 V power supply	●
USB-A & USB-C power supply	●
Sun roller blind, front	●
Adjustable steering wheel	●
High-comfort air suspension seat, 2-point seat belt, seat heating, headrest	○
Komatsu Short-Lever Joystick Steering (K-SLS)	○
DAB+ radio with Bluetooth®, USB, AUX and hands-free kit	○
Sun reflection decal for cab roof	○
Cruise control	○

Safety equipment

Emergency steering system	●
Vandalism protection	●
Back-up alarm	●
Battery main switch	●
Contrasting colour handrail (l.h.)	●
High-definition rear-view camera with 7-inch monitor	●
Front window cleaning step	●
Tie-off points	●
External seat belt indication lamp (tiltable)	○
Heated rear-view mirrors	○
Fire extinguisher	○
Beacon (LED)	○
Optical back-up alarm (strobe light)	○
Front window guard, fixed	○
Headlights protection (tiltable for road homologation)	○
Additional rear mirror inside cab	○
Anti drop valve, boom & bucket	○
Crash detection sensor	○

Service and maintenance

Tilttable one-piece engine hood	●
Fine mesh air intake grids	●
Main switch independent AdBlue® pump	●
Wide core radiator with swing-out fan	●
Komtrax – Komatsu Wireless Monitoring System (4G)	●
Tool-set	●
Hydrostatically-driven radiator fan	●
Hydrostatically-driven radiator fan with automatic reversing function	○
Automatic central lubrication system (A-CLS)	○
Turbo II air pre-cleaner, cyclone type	○

Other equipment

Tool linkage with bucket level indicator	●
Standard counterweight (A05)	●
Z-bar boom	○
Additional counterweight, rear (A15)	○
Electronically controlled load stabiliser (ECSS)	○
13-pin electrical socket on boom (Tool linkage)	○
Special custom colour	○
Waste & Recycling specification	○
License plate holder, front & rear	○
Trailer hitch, automatic truck type, with 13-pin electrical socket	○
Trailer hitch, ball type, with 13-pin electrical socket	○

Lighting system

Headlights halogen	●
Reversing lights LED	●
Head lights LED	○
Working lights LED, 4× front & 2× rear	○
Working lights high-lumen LED, 4× front & 2× rear	○



A wide range of buckets and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

Attachments

Hydraulic quick-coupler (Tool linkage)	●
Direct mount (pin-on) buckets (Z-bar boom)	○
High efficiency buckets (Tool linkage)	○
Fork carrier and tines (Tool linkage)	○
Cutting edge guard	○

Further equipment on request

- standard equipment
- optional equipment

This specification sheet may contain attachments and optional equipment that are not available in your area. Please consult your local Komatsu distributor for those items you may require. Materials and specifications are subject to change without notice.

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