

KOMATSU

PW98MR-11



Midi-excavator

Engine power
50.7 kW / 68.0 HP @ 1850 rpm

Operating weight
10090 - 10760 kg

Bucket capacity
max. 0.282 m³

High versatility, low fuel consumption and **safe performance in tight spaces**



Save time

Higher fuel efficiency: +17% vs Dash 10
Higher productivity: +5% vs Dash 10



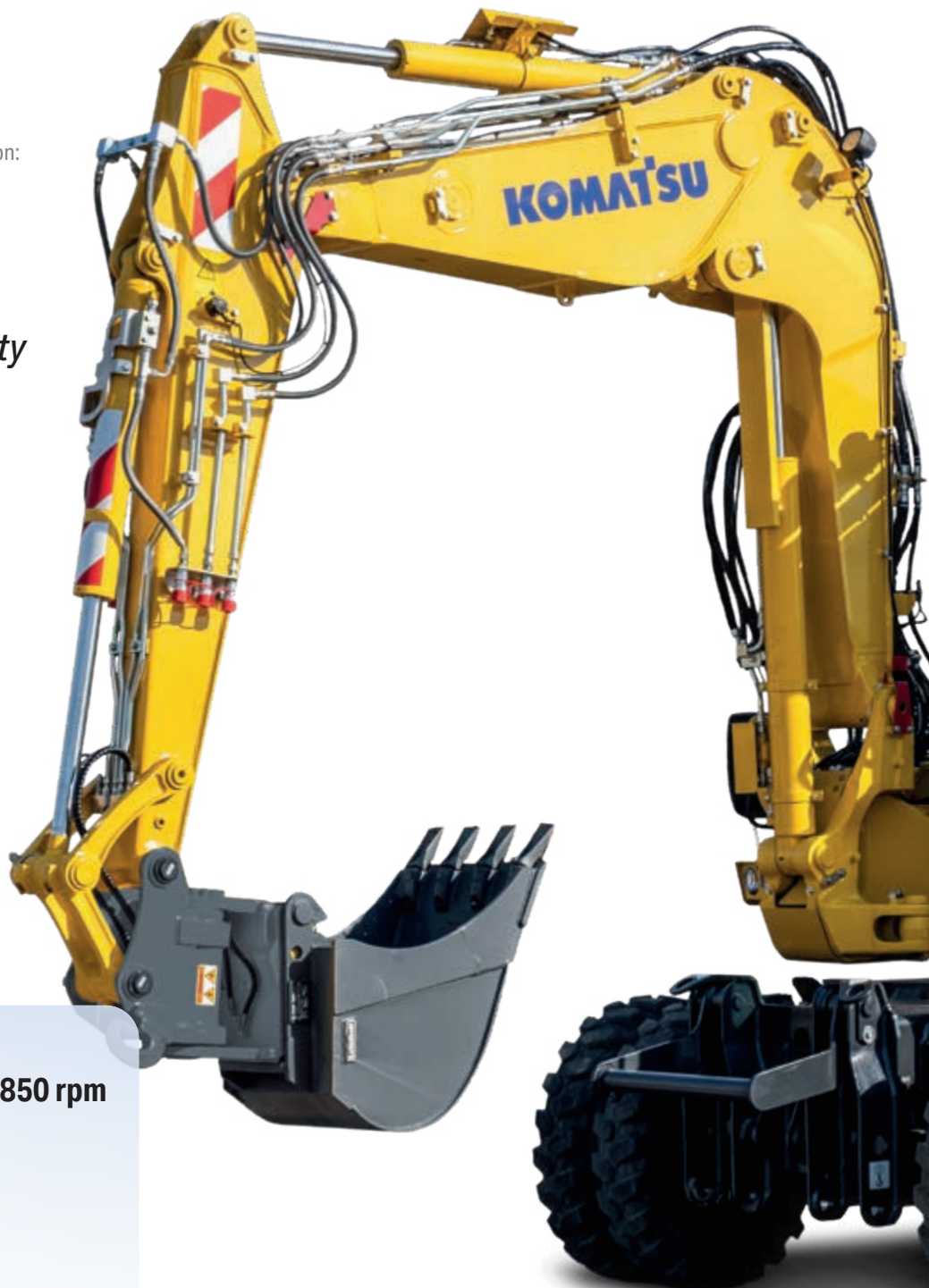
Save costs

Reduced fuel consumption:
-10% vs Dash 10



Increase versatility

Attachment oil flow:
+10% vs Dash 10



Engine power

50.7 kW / 68.0 HP @ 1850 rpm

Operating weight

10090 - 10760 kg

Bucket capacity

max. 0.282 m³

Powerful and environmentally friendly

- Low-consumption EU Stage V engine
- Integrated Diesel Particulate Filter (DPF) with 6000 SMR cleaning interval
- 6 selectable working modes
- Viscous engine fan clutch
- Komatsu fuel-saving technology

First-class comfort

- Spacious and comfortable cab
- Proportional control on joystick for auxiliary circuits
- Multifunction monitor with high resolution 7" LCD color display
- Attachment changeover via monitor

Total versatility

- 4-wheel steering enabling 3 steering modes
- Excellent mobility in confined work spaces
- Innovative two-piece boom design
- Lehnhoff Powertilt available as factory fit
- Komatsu Integrated Attachment Control (KIAC) (option)
- 100% differential lock for better traction

Safety first

- LED working lights (standard)
- Rear- and side-view camera system
- Protrusion over tyres just 310 mm
- Neutral position detection system
- Emergency engine stop switch
- Seat belt caution indicator

Easy maintenance

- Extended maintenance information displayed on the monitor
- Large access doors for maintenance
- Blade/stabiliser cylinders with integrated check valve

Komtrax

- Komatsu Wireless Monitoring System
- Integrated communication antenna
- 4G mobile communications
- Increased operational data and reports



Powerful and environmentally friendly



Performance and ecology

The EU Stage V engine is environmentally friendly without the need of an SCR aftertreatment system. Combined with compact dimensions, this makes the PW98MR-11 a perfect choice for working in confined areas and on urban jobsites.

High productivity and fuel saving

Depending on the load, operators can conveniently choose between 6 working modes designed to match engine speed, pump delivery and system pressure. Priority can be given either to speed, for more productivity, or to fuel consumption for lighter applications.

Excellent travel performance

Wheeled excavators are built to move quickly on and between jobsites. To increase its mobility, the PW98MR-11 features an improved driveline for faster travel and uphill driving speeds. The oscillating front axle, manually lockable through a switch on the dashboard, further increases the performance on slopes.

High lift capacity

Along with its class leading compact size, the PW98MR-11 features an unrivalled lifting performance. The combination of power, convenient dimensions and complete control makes the PW98MR-11 the first choice for heavy-duty lifting applications or simple excavating tasks in narrow alleys, road construction sites and for sewer construction work.

First-class comfort

Increased comfort

In the wide Komatsu cab, a heated, high-back air-suspended seat, with fully adjustable armrests, is the centre of a comfortable and low-fatigue working environment. High visibility and ergonomic controls further assist to maximise the operator's productivity.

Perfect operator convenience

Proportional controls are fitted as standard for safe and precise operation of attachments. The operator can connect his mobile device to the machine's Bluetooth® radio. One 12 Volt power port is also incorporated in the cab (option).

Low-noise design

Especially well-suited for work in urban areas, Komatsu excavators feature environmentally-friendly, low external noise levels.



Convenient, ergonomic and precise control



Ergonomically designed switches



Rear- and side-view camera system

Total versatility



Easy operation

The PW98MR-11's operational concept puts full control of the machine at the operator's fingertips. Travel direction, undercarriage attachments, and manual axle lock can be actuated by switches on the control joysticks or the dashboard. Without removing the hand from the right joystick, the operator can switch its function from boom operation to undercarriage control for complete and precise control over the parallel dozer blade.

Work in tight spaces

The short-tail PW98MR-11 delivers optimal power and digging speed, even in confined spaces where traditional machines can't work: yards, road works, demolition sites, sewers, etc. Sturdy and very stable, it guarantees maximum safety and offers complete operator confidence in any working conditions. Protrusion over tyres is just 310 mm.



4-wheel steering

It's possible to select between 3 steering modes: 2-wheel steering (for travelling), 4-wheel steering (for fast, agile operation) and crab (for confined areas). This ensures outstanding versatility and manoeuvrability. It's easy and safe to change the steering mode: just push a switch. When working, the front axle oscillation can be blocked for improved stability in 3 different ways: by pushing over the limit the break pedal, by pushing a switch on the PPC or on the right dashboard.

Easy maintenance



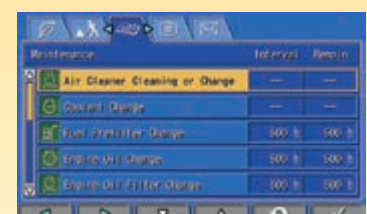
All major maintenance points can be easily reached from ground level



Side-by-side radiator mounting for easy cleaning



Centralised arrangement of filters



The LCD monitor informs about abnormalities and replacement times

Excellent serviceability

Komatsu designed the PW98MR-11 with an easy access to all service points. Routine maintenance and servicing are less likely to be skipped, which can mean a reduction of costly downtime later on.

Long-life oil filters

The Komatsu Genuine hydraulic oil filter uses high-performance filtering material for long replacement intervals, which significantly reduces maintenance costs.

Easy access

The large doors and engine hood give convenient access to all daily service points. Filters are centralised and required service intervals are longer to keep machine downtime to a minimum. The radiator, aftercooler and oil cooler are made of aluminium to improve their efficiency and are mounted in parallel for quicker cleaning.

Electric refuelling pump

Standard equipment on all PW98MR-11 includes an automatic shut-off fuelling pump that allows easy refuelling from a barrel.



Equipped with universal piping for attachments such as breakers, the conversion to a low-pressure mode requires only a push of the breaker mode switch on the monitor.

An evolutionary interface

Helpful information is now easier than ever to find and understand with the upgraded monitor interface. An optimal main screen for the ongoing work can be selected simply by pressing the F3 key.

Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. It raises the level of customer satisfaction and the competitive edge of our products.

Widescreen monitor

Installed with a choice of 26 languages, the widescreen monitor with simple switches and multifunction keys gives fingertip access to a large range of functions and operating info.



Eco gauge, Eco guidance, an adjustable idle shutdown and a new auto idle function all contribute to further reduce fuel consumption



Eco guidance record



Fuel consumption history

Information & communication technology



Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.



The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



Specifications

Engine

Model	Komatsu SAA3D95E-1
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	1850 rpm
ISO 14396	50.7 kW / 68.0 HP
ISO 9249 (net engine power)	50.6 kW / 67.8 HP
No. of cylinders	3
Bore × stroke	95 × 115 mm
Displacement	2445 cm ³
Max. torque / engine speed	339 Nm / 1400 rpm
Air filter type	Dry, double element type air cleaner with dust indicator and auto-dust evacuator
Fuel	Diesel fuel, conforming to EN590 Class 2/ Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN15940:2016

Transmission

Hydrostatic transmission with 4 driving wheels. A travel motor with a creep valve and a gearbox with 2 gear ratio.

Max. drawbar pull	5300 daN (5400 kg)
Max. travel speeds	
Creep / Lo / Hi	4 / 10 / 30 km/h

Axles

Driving and steering axles with epicyclic reduction gears in the hubs. The oscillation of the front axle can be blocked by means of two hydraulic pistons.

Tyres	
Twin tyres (standard)	8.25 - 20
Single tyres (option)	500 / 45-20

Brakes

Type	Hydraulically controlled, with pedal, by means of two double circuit pumps, acting on oil immersed multiple discs on the four wheels
Service brakes	Hydraulically controlled by means of a pedal, acting on the four wheels

Hydraulic system

Type	HydraMind. Closed-centre system with load sensing and pressure compensation valves
Main pumps	
Pump for	Boom, arm, bucket, boom swing, swing, travelling, stabilisers, blade and attachments
Type	Variable displacement, axial piston
Max. flow	165 l/min
Pump for	Steering
Type	Fixed displacement gear pump
Max. flow	22 l/min
Pump for	Pilot circuit
Type	Fixed displacement gear pump
Max. flow	12 l/min
Hydraulic motors	
Travel	1 × piston motor, variable displacement
Swing	1 × piston motor with swing holding brake
Relief valve setting	
Swing	20.6 MPa (210 kg/cm ²)
Travel and work equipment	26.5 MPa (270 kg/cm ²)
Bucket breakout force (ISO 6015)	6130 daN (6250 kgf)
Arm crowd force 1650 mm arm (ISO 6015)	4150 daN (4230 kgf)

Steering

Hydraulically operated steering system that acts on the front and rear wheels by means of double rod hydraulic cylinders in the axles. The operator can select three kinds of steering by means of an electric switch.

Two steering wheels	
Four steering wheels	
Crab steering	
Steering radius	
Two steering wheels	6450 mm
Four steering wheels	4040 mm

Swing system

Driven by	Hydraulic motor
Swing reduction gear	Planetary gear
Swing circle lubrication	Grease-bathed
Swing brakes	Automatic, with oil immersed disks

Service refill capacities

Fuel tank	125 l
Cooling system	17 l
Engine oil	10.5 l
Differential (each axle)	9 l
Gearbox	1.5 l
Swing drive	2.8 l

Operating weight (appr.)

	Operating weight	Width
With rear blade	10260 kg	2350 mm
With rear stabilisers	10090 kg	2330 mm
With blade and stabilisers	10570 kg	2350 mm

Operating weight, including 1650 mm arm, 0.28 m³ bucket (ISO 7451), operator, liquids, filled tank and standard equipment (ISO 6016) and tyres 500 / 45-20.

With twin tyres 8.25-20: +160 kg

Max. permitted total weight 11.000 kg

Cab

Sound-proof cab, provided with safety glasses, liftable windscreen, roof window, sliding door with lock, windscreen-wiper, electric horn, adjustable seat with double slide, control system and instrumentation, adjustable joysticks, outside air inlet.

Environment

Engine emissions Fully complies with EU Stage V exhaust emission regulations

Noise levels

LwA external 99 dB(A) (2000/14/EC Stage II)

LpA operator ear 76 dB(A) (ISO 6396 dynamic test)

Vibration levels (EN 12096:1997)

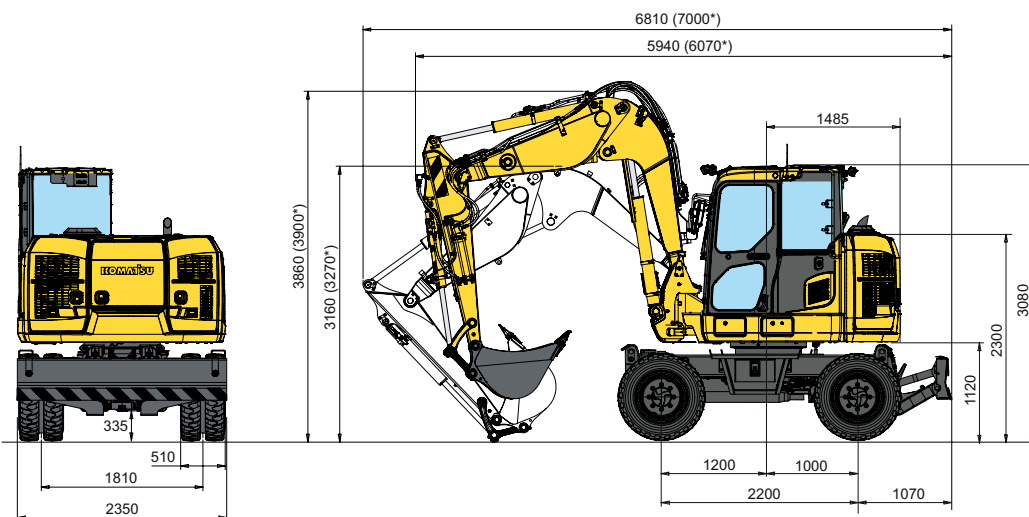
Hand/arm $\leq 2.5 \text{ m/s}^2$ (uncertainty K = 0.58 m/s²)

Body $\leq 0.5 \text{ m/s}^2$ (uncertainty K = 0.22 m/s²)

Contains fluorinated greenhouse gas HFC-134a (GWP 1430).

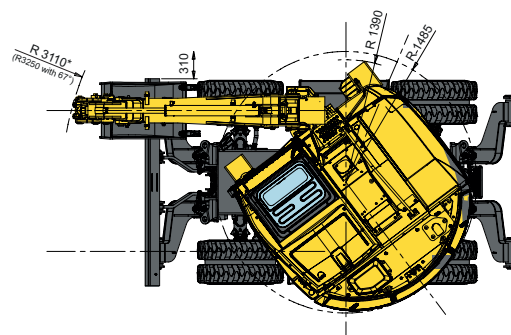
Quantity of gas 0.7 kg; CO₂ equivalent 1.0 t

Machine dimensions

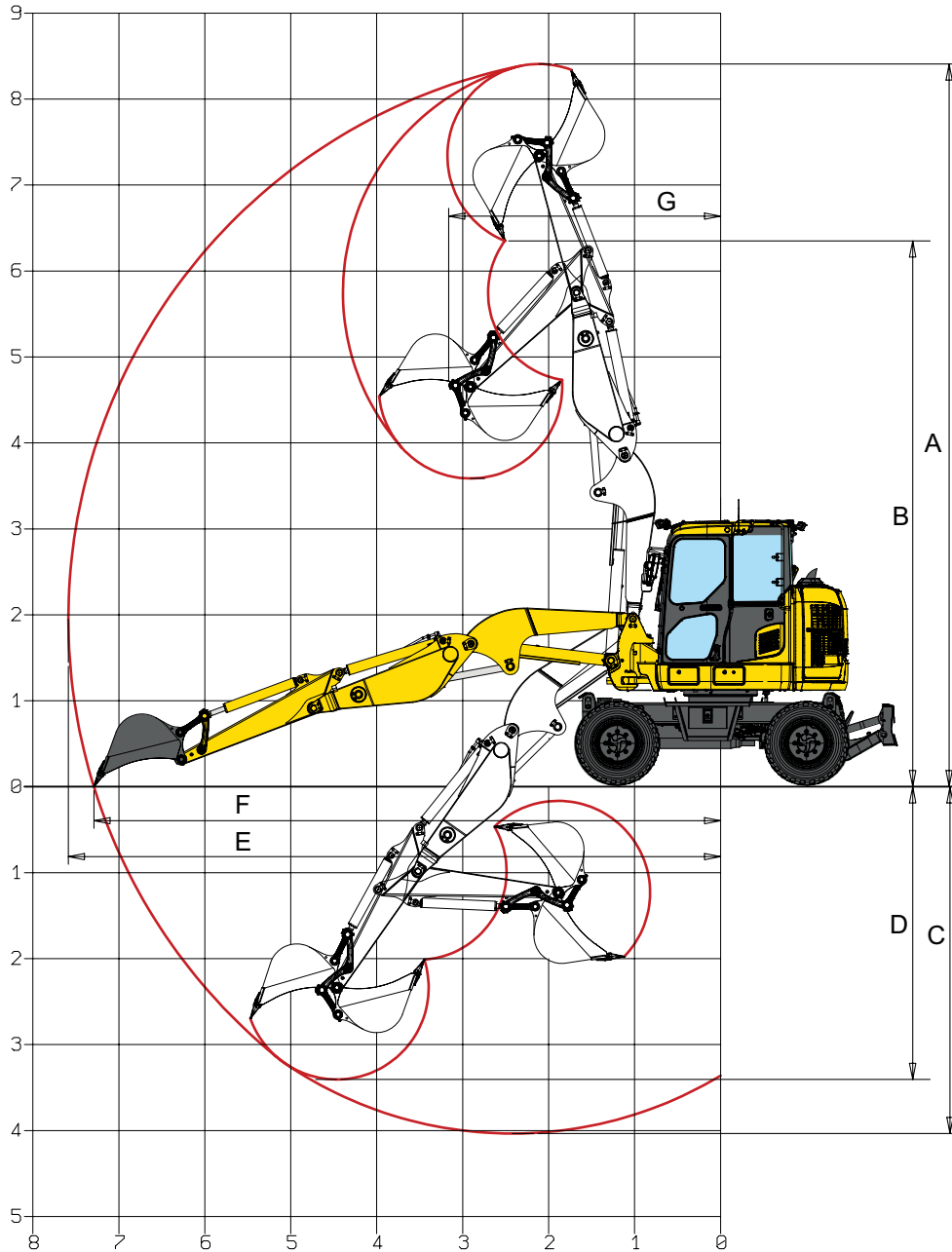


All dimensions with single tyres 18 × 19.5

* with 1900 mm arm



Working range




Working range

Arm length	1650 mm	1900 mm
A Max. digging height	8400 mm	8630 mm
B Max. dumping height	6330 mm	6525 mm
C Max. digging depth	4055 mm	4305 mm
D Max. vertical wall digging depth	3415 mm	3650 mm
E Max. digging reach	7585 mm	7835 mm
F Max. digging reach at ground level	7290 mm	7560 mm
G Min. swing radius	3165 mm	3350 mm

Lifting capacity

A – Reach from swing center

 – Rating over front

B – Bucket hook height









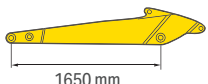
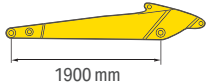
 – Rating over side

Data and specifications are referring to the machine according to 89/392/CE and EN 474-5 directives.

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

Lifting capacities with 650 mm bucket (185 kg), twin tyres (8.25-20), blade, levers and cylinder.

With blade and stabilisers up

Arm length	A		Max.		6.0 m		5.0 m		4.0 m	
	B									
 1650 mm	4.5 m	kg 1360	960	1390	980	*1750	1370	*1930	*1900	
	3.0 m	kg 1170	810	1370	960	1880	1280	*2520	1770	
	1.5 m	kg 1130	780	1300	910	1700	1180			
	0.0 m	kg 1150	790	1260	850	1620	1090	2240	1480	
	-1.5 m	kg 1450	990			1660	1130	2300	1530	
 1900 mm	4.5 m	kg 1360	970	1440	1030	*1710	1430	*1850	*1790	
	3.0 m	kg 1180	830	1410	1000	*2000	1320	*2380	1830	
	1.5 m	kg 1140	800	1330	940	1720	1220	2380	1610	
	0.0 m	kg 1080	730	1240	840	1600	1070	2220	1460	
	-1.5 m	kg 1320	900			1630	1090	2260	1490	

NOTE:
Ratings are based on ISO standard 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load. Excavators used in object handling operations must comply with the related local regulations and must be equipped with hose burst valves (boom & arm) and an overload warning device in compliance with EN474-5.

- The values marked with an asterisk (*) are limited by the hydraulic capacities.
- Calculations are based on the machine resting on a uniform and firm surface.
- The lifting point is a hypothetical hook placed behind the bucket.

Bucket capacity (ISO 7451)

Bucket capacity	m ³	0.107	0.171	0.181	0.235	0.282
Bucket width (with cutting edge)	mm	350	450	550	650	750

Standard and optional equipment

Engine

Komatsu SAA3D95E-1 turbocharged common rail direct injection diesel engine	●
EU Stage V 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 / 4.5 kW	●
Batteries 2 × 12 V / 65 Ah	●

Hydraulic system

Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydraMind)	●
6-working mode selection system; power mode, economy mode, breaker mode, attachment power and attachment economy mode, and lifting mode	●
Adjustable PPC wrist control levers for arm, boom, bucket and swing, with sliding proportional control for attachments and 5 auxiliary buttons, with FNR switch	●
One additional 2-way full-flow service valve with hydraulic line for attachment on boom and arm (HCU-A)	●
Additional auxiliary hydraulic circuit (HCU-B)	●
Relieve valve on service spool	●
2nd auxiliary hydraulic circuit (HCU-C) + preparation for hydraulic quick-coupler	●
Komatsu Integrated Attachment Control (KIAC) (HCU-C)	○
Additional hydraulic functions	○
Lehnhoff Powertilt	○
Lehnhoff quick-couplers	○

Drives and brakes

Hydrostatic, 3-speed travel system	●
Hydraulic service and parking brakes	●
Oscillating front axle (± 6°) with automatic and manual cylinder locking	●
Cruise control	●
100% differential lock	●
20, 25 and 30 km/h speed limitation	○

Cabin

Large roof window, pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, cigarette lighter, floor mat	●
Heated, high-back air-suspended seat with lumbar support, arm rests and retractable seat belt	●
Control lever with FNR switch	●
Automatic climate control system	●
24 Volt power supply	●
Beverage holder	●
Rain visor	●
Radio with Bluetooth	○
1 × 12 Volt power supply	○

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 (4G)	●
Multifunction video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Toolkit	●

Safety equipment

Rear- and side-view camera system	●
Electric horn	●
Overload warning device	●
Audible travel alarm	●
Boom safety valves	●
Large handrails, rear-view mirrors	●
Battery main switch	●
ROPS (ISO 12117) - OPG (ISO 10262) level 1	●
Emergency engine stop switch	●
Seat belt caution indicator	●
Neutral position detection system	●
Arm safety valve	●
Lateral mirror (right side)	●
OPG Level 2 top guard	○
Rotating beacon	○
Audible travel alarm (white noise version)	○

LED lighting system

2 working lights on boom	●
4 front working lights on cab	●
Rear working light on cab	●

Undercarriage

Twin tyres 8.25-20	●
Parallel blade (front or rear)	●
Single tyres 500 / 45-20	○
Front blade and rear stabilisers	○
2 or 4 stabilisers, individually adjustable	○
Fenders	○
Trailer hitch	○

Work equipment

Two-piece boom with cylinder protection	●
1650 mm arm	●
1900 mm arm	●
Bucket range (350 - 750 mm)	○
1500 mm ditch cleaning bucket	○
1650 mm ditch digging bucket (52°)	○
Bucket linkage with lifting hook	○

Other equipment

Standard counterweight	●
Electric refuelling pump with automatic shut-off function	●
Biodegradable oil for hydraulic system	○
Customised paint	○

Further equipment on request

- standard equipment
- optional equipment



Rear- and side-view camera system (standard)



LED working lights (standard)



Additional auxiliary hydraulic circuits (option)



Blade/stabiliser cylinders with integrated check valve (standard)



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



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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