

# 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 m<sup>3</sup>

# 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



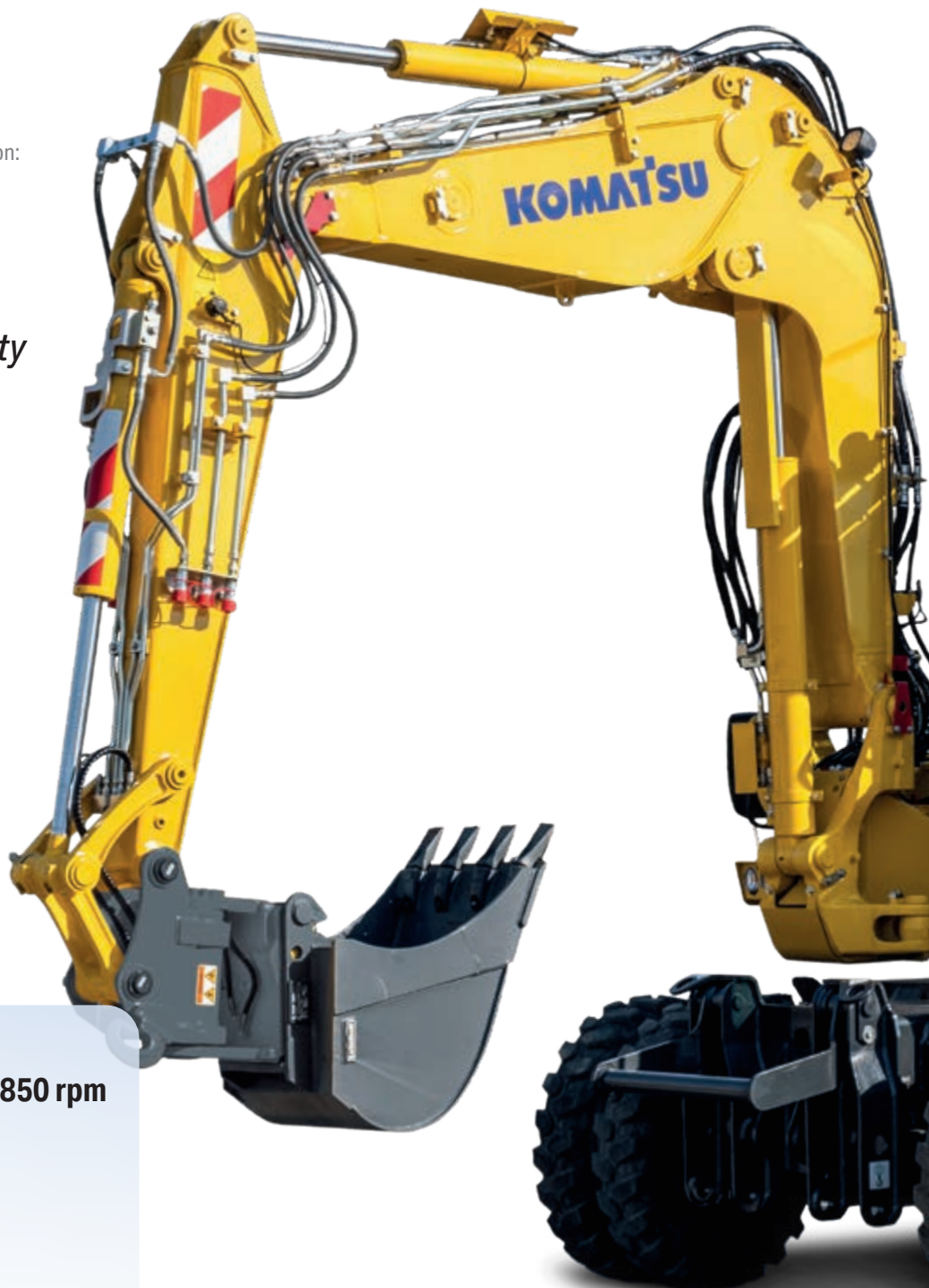
## *Save costs*

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 m<sup>3</sup>**

## 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



### 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.



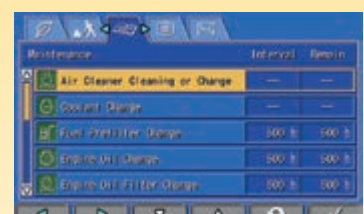
All major maintenance points can be easily reached from ground level



Side-by-side radiator mounting for easy cleaning



Centralised arrangement of filters



The LCD monitor informs about abnormalities and replacement times



## 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.

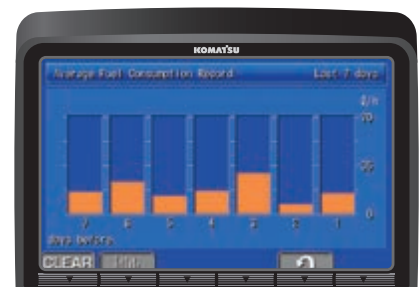
Equipped with universal piping for attachments such as breakers, the conversion to a low-pressure mode requires only a push of the breaker mode switch on the monitor.



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 <sup>3</sup>  |
| 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 <sup>2</sup> )   |
| Travel and work equipment              | 26.5 MPa (270 kg/cm <sup>2</sup> )   |
| 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 m<sup>3</sup> 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

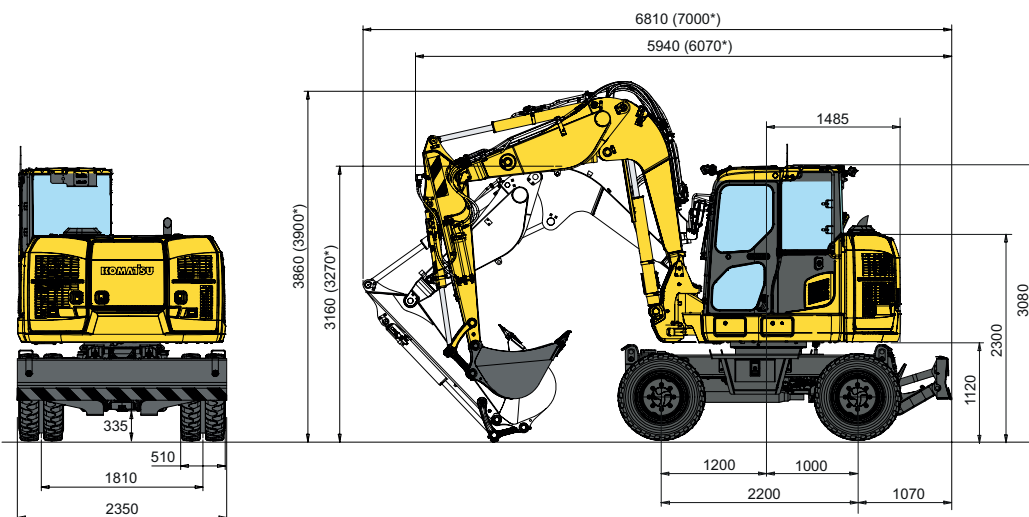
## Cab

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

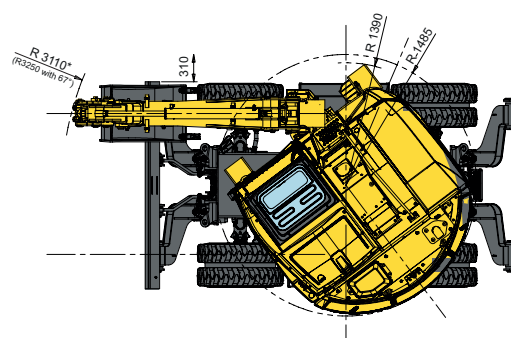
|  |   |
|--|---|
| Engine emissions   | Fully complies with EU Stage V exhaust emission regulations     |
| Noise levels   |   |
| LwA external   | 99 dB(A) (2000/14/EC Stage II)                                  |
| LpA operator ear   | 76 dB(A) (ISO 6396 dynamic test)                                |
| Vibration levels (EN 12096:1997)   |   |
| Hand/arm   | ≤ 2.5 m/s <sup>2</sup> (uncertainty K = 0.58 m/s <sup>2</sup> ) |
| Body   | ≤ 0.5 m/s <sup>2</sup> (uncertainty K = 0.22 m/s <sup>2</sup> ) |
| Contains fluorinated greenhouse gas HFC-134a (GWP 1430).<br>Quantity of gas 0.7 kg; CO <sub>2</sub> equivalent 1.0 t |   |

## Machine dimensions

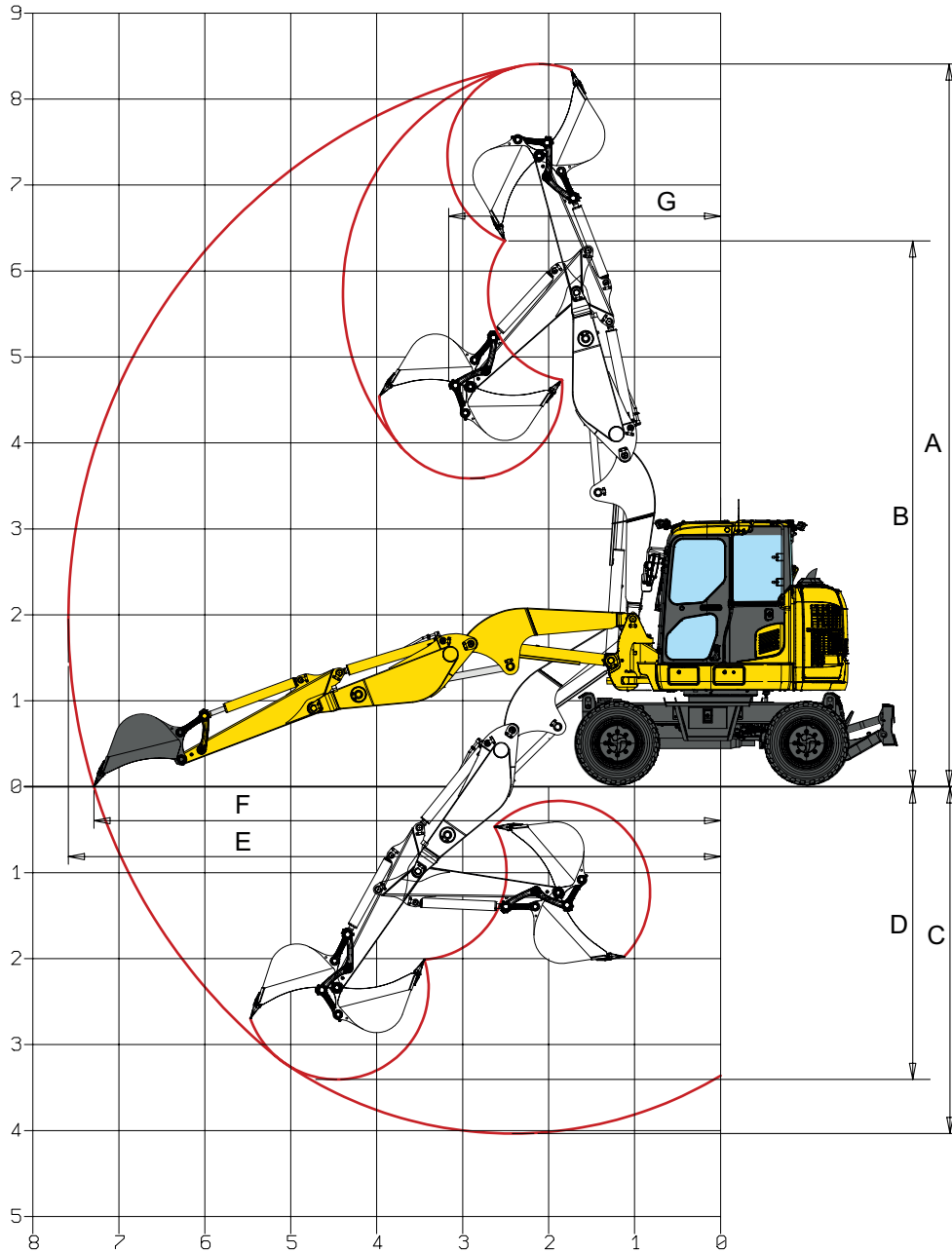


All dimensions with single tyres 18 × 19.5

\* 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









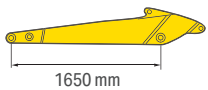
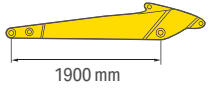
 – Rating over side

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      |  |  |  |  |  |  |  |  |  |
| <br>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  |  |
| <br>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 <sup>3</sup> | 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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