KOMATSU

PW130-7

NET HORSEPOWER
78 kW 105 HP @ 2,200 rpm

OPERATING WEIGHT
12.770 - 15.110 kg

BUCKET CAPACITY
max. 0.94 m³

HYDRAULIC WHEELED EXCAVATOR

PW130-7
The PW130-7 is a rugged, productive, all-European machine. Designed and expressly built for European markets, it delivers productivity, reliability and operator comforts in a robust, environmentally-friendly package. Komatsu’s exclusive, on-board, HydrauMind system assists in all operations, providing enhanced machine performance that’s always perfectly matched to the task.

**What’s new on Dash 7:**
- High lifting capacity
- Easier maintenance and serviceability
- Improved operator comfort
- Lower noise
- Higher drawbar pull
- Advanced Attachment Control
- Multi-function colour monitor

**High productivity**
- The powerful turbocharged and air-to-air aftercooled Komatsu SAA4D102E-2 provides 78 kW/105 HP
- High lifting capacity and good stability

**Advanced Attachment Control**
The PW130-7 can be optionally equipped to handle a wide variety of attachments. The advanced attachment control system features:
- Operator selectable hydraulic flow control
- Adjustable presets for rapid attachment changeover
- Attachment piping options for breaker, clamshell or crusher

**Excellent reliability and durability**
- Reliable major components designed and built by Komatsu
- Exceptionally reliable electronic devices

**Undercarriage**
- Designed for high ground clearance
- Virtually zero axle rocking with outboard wet disc system
- Powerful drawbar pull
- Automatic 3-speed travel
- 30 km/h maximum travel speed
SpaceCab™
The new PW130-7’s cabin space has been increased by 14%, offering an exceptionally roomy operating environment.

- Sealed and pressurised cab with standard climate control
- Low-noise design
- Low-vibration design with cabin damper mounting
- Cab moved forward for better visibility
- Ergonomic control levers
- Seat specially designed for wheeled machines, with exceptional extra comfort

In harmony with the environment

- The low emission engine meets EC Stage II emissions standards with increased power and machine productivity
- The economy mode reduces fuel consumption
- Low operating noise
- Designed for easy end-of-life recycling
EMMS (Equipment Management and Monitoring System)

The EMMS is a highly sophisticated system, controlling and monitoring all the excavator functions. The user interface is highly intuitive and provides the operator with easy access to a huge range of functions and operating information.

Four working modes

The PW130-7 is equipped with three working modes: (A, E, B), plus a lifting mode (L). Each mode is designed to match the engine speed, pump speed, and system pressure with the current operating requirement. This provides the flexibility to match equipment performance to the job at hand.

On-screen symbols

1. Working mode
2. Service meter and clock
3. Engine water gauge
4. Engine water temperature warning
5. Hydraulic oil gauge
6. Hydraulic oil temperature warning
7. Fuel gauge
8. Fuel low level warning
9. Travel direction
10. Travel mode
11. Auto deceleration
12. Suspension lock
13. Swing lock
14. Swing position

Push-button control switches

1. Working mode select
2. Creep speed
3. High/low speed select
4. Control lever lock
5. Menu select key
6. Service menu
7. Engine auto deceleration
8. Buzzer cancel
9. Brightness adjust
10. Suspension auto lock
11. Suspension lock
12. Accept key
13. Scroll down
14. Scroll up
15. Undo switch
16. Rear left outrigger/blade
17. Front left outrigger/blade
18. Front right outrigger
19. Rear right outrigger
Active mode
For maximum power and fast cycle times. Normally used for heavy operations such as hard digging and loading. This mode allows access to the ‘PowerMax’ function to temporarily increase the digging force by 7% for added power in tough situations.

Economy mode
The environmentally-friendly mode. For running more quietly during operations at night and/or in urban areas. Fuel consumption and exhaust emissions are reduced.

Breaker mode
Delivers optimal hydraulic pressure, flow and engine RPMs for powerful breaker operations.

Lifting mode
Increases the lifting capacity 7% by raising the hydraulic pressure. This mode supports safe lifting operations.

<table>
<thead>
<tr>
<th>Working mode</th>
<th>Application</th>
<th>Advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Active mode</td>
<td>• Maximum production/power</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• Fast cycle times</td>
</tr>
<tr>
<td>E</td>
<td>Economy mode</td>
<td>• Excellent fuel economy</td>
</tr>
<tr>
<td>B</td>
<td>Breaker mode</td>
<td>• Optimum engine RPMs and hydraulic flow</td>
</tr>
<tr>
<td>L</td>
<td>Lifting mode</td>
<td>• Hydraulic pressure has been increased by 7%</td>
</tr>
</tbody>
</table>

Easy to see and easy to use
Superb recognition colour LCD screens for each mode. Letters and numbers are combined with colour images for exceptionally clear and easy-to-read information. The high-resolution screen is easy to read in bright sunlight and in all lighting conditions.

Automatic three-speed travel
The travel speed is automatically shifted from high to low speed, according to the ground conditions.

<table>
<thead>
<tr>
<th>Travel speed</th>
<th>High</th>
<th>Low</th>
<th>Auto</th>
<th>Creep</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>30 km/h</td>
<td>9.0 km/h</td>
<td>0 - 30 km/h</td>
<td>2.0 km/h</td>
</tr>
</tbody>
</table>

Fingertip hydraulic pump oil flow adjustment
From the LCD monitor, you can automatically select the optimal hydraulic pump oil flow for breaking, crushing, and other operations in the B, A or E modes. Also, when simultaneously operating with attachments and work equipment, the flow to the attachment is reduced automatically, thus delivering a smooth movement of the work equipment.

Password protection
Prevents unauthorised machine use or transport. The engine cannot be started without your four-digit use or password. For total security, the battery is connected directly to the starter motor. Both the starter and the engine need the password.

The password can be activated and deactivated upon request.
PW130-7’s cab interior is spacious and provides a comfortable working environment...

**SpaceCab™**

**Comfortable cab**
The new PW130-7 inner cab volume is 14% greater than the Dash 6 models, offering an exceptionally comfortable operating environment. The large cab enables the seat, with headrest, to be reclined to horizontal.

**Pressurised cab**
The standard-equipped climate control, air filter and a higher internal air pressure resist dust entry into the cab.

**Low-noise design**
Noise levels are substantially reduced; engine noise as well as swing and hydraulics operations noise.

**Cab damper mounting for low vibration levels**
PW130-7 uses a new and improved viscous damping cab mount system that incorporates a longer stroke plus an added spring. The new cab damper mounting, combined with strengthened left and right-side decks, aids the reduction of vibrations to the operator’s seat.

- **Outer air filter**
- **Easy removal/installation of the air conditioner filter element, without tools facilitates easier cleaning.**
- **Large sun roof with integrated sun shade**
- **12-Volt power supply and (optional) radio cassette**
- **Climate control**
- **Tiltable steering wheel with several functions; wiper control, indicator, horn, and head lights**
Multi-position controls
The multi-position, proportional pressure control levers allow the operator to work in comfort whilst maintaining precise control. A double-slide mechanism allows the seat and controllers to move together, or independently, allowing the operator to position the controllers for maximum productivity and comfort.

Improved, wide visibility
The right side window pillar has been removed and the rear pillar reshaped to provide greater visibility. Blind spots have been decreased by 34%.

Pump/engine room partition
This prevents hydraulic oil from spraying onto the engine to reduce the risk of fire.

Thermal and fan guards
Are placed around high-temperature parts of the engine. The fan belt and pulleys are well protected.

Steps with non-slip surface and large handrail
Steps with non-slip surfacing ensure safer maintenance.

Ergonomic 3 button lever

Hot and cool box

Seat sliding range: 340 mm

Defroster/demister

Thermal guard

Non-slip sheet

Large handrail for safe access
**FLEXIBILITY**

**ARMS**
- Mono boom: 2.100 mm
- Two-piece boom: 2.500 mm
- Rotating arm: 2.600 mm

**BOOMS**
- Mono boom: 4.600 mm
- Two-piece boom: 4.800 mm

**Outriggers**
- Independently controlled outriggers are optionally available on both, the front and rear of the machine. The cylinder protections are standard on the outriggers.

**Additional hydraulic circuits**
- A 2-way additional hydraulic circuit, electrically controlled from the wrist control levers, is fitted as standard.
The PW130-7 can be specified with an enormous range of work equipment and undercarriage attachments to meet the needs of almost any application.

Attachments commonality & functionality
The stabilizer and dozer blade are interchangeable, and therefore can be attached on the front or rear of the chassis. The stabilizer and dozer blade are controllable from the monitor panel. The monitor panel has four buttons that allow individual attachment operation as well as collective operation.

Toolbox
Tough, secure toolbox, integrated in the mudguards. Optionally fitted on both sides of the undercarriage.

Dozer blade
A parallel blade is available with standard cylinders protector for both the front and rear of the machine. Dimensions: 2,550 mm × 520 mm
As well as operating the standard work equipment movements, the RH wrist control lever is also used to operate the undercarriage. When used in conjunction with the selection switch on the control panel, full independent control of outriggers and dozer blade is immediately available. This feature, together with the automatic axle lock, enables the machine to be moved, stabilized and operated extremely quickly.

**Clamshell/breaker control**
Clockwise clamshell rotation. Also used for breaker operation when B.O. mode is selected.

**Clamshell control**
Anti-clock wise clamshell rotation.

**Undercarriage attachment control**
After a single touch, the lever can be used to precisely operate the selected undercarriage attachment. After operating the undercarriage attachments, a single touch reverts the lever into standard boom operation.

**Travel control**
A rock button is installed on the right hand lever, it controls the travel operation into forward, neutral and rear. From the consistent weighting of the steering to the predictable and precise operation of the travel and brake pedals, the operator will always feel in complete control during travelling.
Proven reliability and fuel economy
The PW130-7 mounts the Komatsu SAA4D102E-2 engine, an engine with proven performance thanks to the experience gained on the Dash 6 model of the PW130.

Safe and precise lifting
PW130-7’s stability is one of the best in its class. The machine is equipped with boom safety valves and overload caution as standard. This combined with the control of HydrauMind and the power of the lifting mode, gives incredible safe and precise lifting performance. Example: The over-front lifting capacity (reach 4.5 m over front, height 1.5 m) has a capacity of 5.6 tonnes (dozer blade down).

PowerMax function
PowerMax can be selected by depressing a joystick button for an instant burst of power to help break through tough digging situations. The PowerMax function is available in the A and E working mode.

Bucket digging force*: 8,500 kg
Arm crowd force*: 7,300 kg
* Measured with PowerMax function, 2.100 mm arm and ISO rating

Superb visibility
Excellent all-round visibility is provided by large panoramic windows. Front visibility is further improved by the use of the Komatsu patented wiper system. When not in use the wiper parks on the cab frame itself with no contact with the front window. As well as giving excellent visibility, this systems avoids the need to disconnect the wiper before lifting the front window. The standard new plexiglas roof with sun visor gives the operator a better view of overhead obstacles and machine operations. It also allows more natural light to illuminate the cab’s interior.
VHMS (Vehicle Health Monitoring System)

The VHMS's precise health-check system indicates all of the machine's running conditions. At the beginning of, and during, each work shift, abnormality information and machine functions can be checked from the operator's seat.

New features: VHMS machine health monitoring
- Up to four different mechanical system measurements can be monitored at the same time.
- A “Maintenance Indicator” function has been added (Filter and oil replacement time display function).
- Mechanical system failures are now monitored, in addition to electrical system failures.
- Failures are indicated with a 6-digit failure code.

Displays running conditions and abnormality indications
At the operator's fingertips: the VHMS controller monitors engine oil level, cooling water level, fuel level, engine water temperature, engine oil pressure, battery charging level, air filter clogging, and more. The monitor also indicates whenever abnormalities are detected.

Maintenance alert assistance
The VHMS monitor alerts when oil and filters need to be replaced.

Operation data memory
The system memorises machine operating data such as engine output, hydraulic pressure, and more.

Trouble data memory
The monitor stores and recalls electrical system and mechanical system failures and abnormalities for effective troubleshooting. The twenty most-recent electrical system failures are stored. Mechanical system failures cannot be erased, ensuring accurate documentation of vital service management information.

VHMS ‘real time monitoring system’
The ‘real time monitoring system’ displays up to four different operating parameters simultaneously, giving the mechanic a total overview for faster troubleshooting. Parameters include operating conditions such as hydraulic oil pressure, engine RPMs, various voltages and currents, and even temperature measurement.
Reducing maintenance costs

Replacement intervals for engine oil and filters
High-performance filters are used in the hydraulic circuit and engine. Replacement intervals for the hydraulic oil filter are significantly extended, reducing maintenance costs.

<table>
<thead>
<tr>
<th>Replacement intervals</th>
<th>PW130-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine oil</td>
<td>500 h</td>
</tr>
<tr>
<td>Engine oil filter</td>
<td>500 h</td>
</tr>
<tr>
<td>Hydraulic oil</td>
<td>5,000 h</td>
</tr>
<tr>
<td>Hydraulic oil filter</td>
<td>500 h</td>
</tr>
</tbody>
</table>

Designed and built for strength
Using the latest computer aided design techniques and exhaustive testing, the boom and arm designs have been optimised for strength and durability.

The highly automated manufacturing process uses the very latest equipment and quality control techniques. Critical welding is carried out by robots to ensure an extremely high quality and consistent product.

Precision engineered pin and bush system. The key work equipment joints use a chrome plated pin and bronze bushing system to provide minimal play and extended durability.
**SPECIFICATIONS**

**ENGINE**
- Model: Komatsu SAA4D102E-2
- Type: Direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
- Rated capacity: 78 kW/105 HP (ISO 9249 Net)
  - at engine speed: 2,200 rpm
- Bore x stroke: 102 x 120 mm
- Displacement: 4 ltr
- Air filter type: Double element type with monitor panel dust indicator and auto dust evacuator
- Cooling: Suction type cooling fan

**HYDRAULIC SYSTEM**
- Type: HydraulMind. Closed-centre system with load sensing and pressure compensation valves
- Additional circuits: 1 additional circuit installed as standard
- Main pump: Variable displacement piston pump supplying boom, arm, bucket, swing and travel circuits
- Maximum pump flow: 236 ltr/min
- Relief valve settings
  - Implement: 365 bar
  - Travel: 420 bar
  - Swing: 325 bar
  - Pilot circuit: 36 bar

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**
- Fuel tank: 250 ltr
- Radiator: 15,7 ltr
- Engine oil: 18 ltr
- Swing drive: 2,5 ltr
- Hydraulic tank: 100 ltr
- Transmission: 4,85 ltr
- Front differential: 10,5 ltr
- Rear differential: 9,5 ltr
- Front axle hub: 2,5 ltr
- Rear axle hub: 2,0 ltr
- Swing pinion grease bath amount: 9,0 ltr

**ENVIRONMENT**
- Engine emissions: Fully complies with EC Stage II exhaust emission regulations
- Noise levels
  - LwA external: 101 dB(A) (2000/14/EC)
  - LpA operator ear: 71 dB(A) (ISO 6369 dynamic test)

**SWING SYSTEM**
- Type: Axial piston motor driving through planetary double reduction gearbox
- Swing lock: Electrically actuated wet multi-disc brake integrated into swing motor.
  - An additional mechanical pin can be engaged from inside the operator cab
- Swing speed: 0 - 11,5 rpm
- Swing torque: 31 kNm

**TRANSMISSION**
- Type: Fully automatic power shift transmission with permanent 4 wheel drive
- Travel motors: One variable displacement axial piston motor
- Maximum pressure: 355 bar
- Travel modes: Automatic + 3 travel modes
- Max. travel speeds
  - Hi / Lo / Creep: 30,0 / 9,0 / 2,0 km/h
  - A max. speed restriction of 20 km/h is available as an option.
- Maximum drawbar pull: 8,700 kg
- Front axle load: Lower than 8,200 kg
- Rear axle load: Lower than 7,400 kg
- Axle oscillation: 7° Lockable in any position from the operator cab

**BRAKE SYSTEM**
- Type: Dual circuit hydraulic braking system supplied from a separate gear pump.
- Service brakes: Pedal actuated wet multi-disc brakes integrated into the axle hubs.
- Parking brake: Electrically actuated wet multi-disc “spring actuation hydraulic release” brake integrated into the transmission.

**STEERING SYSTEM**
- Steering control: Hydraulic steering system supplied from a separate gear pump and controlled through LS orbitrol & priority valves.
- Minimum turning radius: 6,790 mm (to center of outer wheel)
OPERATING WEIGHT (APPR.)

Operating weight, including specified work equipment, operator, lubricant, coolant, full fuel tank and the standard equipment. Weights are without bucket.

<table>
<thead>
<tr>
<th>Undercarriage type</th>
<th>Mono boom</th>
<th>Two-piece boom</th>
<th>Two-piece boom + rotating arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rear blade</td>
<td>12.770 kg</td>
<td>13.100 kg</td>
<td>–</td>
</tr>
<tr>
<td>Rear outrigger</td>
<td>13.140 kg</td>
<td>13.470 kg</td>
<td>–</td>
</tr>
<tr>
<td>2 outriggers + blade</td>
<td>13.590 kg</td>
<td>13.920 kg</td>
<td>14.110 kg</td>
</tr>
<tr>
<td>4 outriggers</td>
<td>13.960 kg</td>
<td>14.290 kg</td>
<td>15.110 kg</td>
</tr>
</tbody>
</table>

BUCKET OPTIONS & DIGGING FORCES

Specifications and equipment may vary according to regional availability.

BUCKET AND ARM COMBINATIONS

<table>
<thead>
<tr>
<th>Bucket</th>
<th>Arm length</th>
<th>Width</th>
<th>Capacity (SAE)</th>
<th>Weight</th>
<th>2.100 mm</th>
<th>2.500 mm</th>
<th>Rotating arm</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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<td></td>
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<td></td>
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<tr>
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<td>2.100 mm</td>
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<tr>
<td></td>
<td>2.500 mm</td>
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<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rotating arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>400 mm</td>
<td>0.18 m³</td>
<td>305 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>500 mm</td>
<td>0.25 m³</td>
<td>320 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>600 mm</td>
<td>0.32 m³</td>
<td>350 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>700 mm</td>
<td>0.40 m³</td>
<td>390 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>800 mm</td>
<td>0.48 m³</td>
<td>440 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>900 mm</td>
<td>0.56 m³</td>
<td>475 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1.000 mm</td>
<td>0.64 m³</td>
<td>505 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1.100 mm</td>
<td>0.72 m³</td>
<td>560 kg</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
</tr>
<tr>
<td>1.200 mm</td>
<td>0.80 m³</td>
<td>620 kg</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
<tr>
<td>1.200 mm</td>
<td>0.94 m³</td>
<td>625 kg</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
<td>□</td>
</tr>
</tbody>
</table>

Please consult with your distributor for the correct selection of buckets and attachments to suit the application. The recommendations are given as a guide only, based on typical operating conditions.

BUCKET AND ARM FORCE

<table>
<thead>
<tr>
<th>Arm length</th>
<th>2.100 mm</th>
<th>2.500 mm</th>
<th>Rotating arm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force</td>
<td>7.800 kg</td>
<td>7.800 kg</td>
<td>7.800 kg</td>
</tr>
<tr>
<td>Bucket digging force at PowerMax</td>
<td>8.500 kg</td>
<td>8.500 kg</td>
<td>8.500 kg</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>6.700 kg</td>
<td>5.400 kg</td>
<td>5.400 kg</td>
</tr>
<tr>
<td>Arm crowd force at PowerMax</td>
<td>7.300 kg</td>
<td>6.100 kg</td>
<td>5.900 kg</td>
</tr>
</tbody>
</table>

○ Material weight up to 1.8 t/m³
□ Material weight up to 1.5 t/m³
△ Material weight up to 1.2 t/m³
DIMENSIONS

MONO BOOM

TWO-PIECE BOOM

TWO-PIECE BOOM + ROTATING ARM
### WORKING RANGE

**MONO BOOM**

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>2.100 mm</th>
<th>2.500 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. digging height</td>
<td>8.660 mm</td>
<td>8.900 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>6.290 mm</td>
<td>6.530 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>4.730 mm</td>
<td>5.130 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>4.175 mm</td>
<td>4.560 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2.44 m level</td>
<td>4.495 mm</td>
<td>4.925 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>7.895 mm</td>
<td>8.265 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>7.690 mm</td>
<td>8.070 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>2.320 mm</td>
<td>2.400 mm</td>
</tr>
</tbody>
</table>
TWO-PIECE BOOM

<table>
<thead>
<tr>
<th>Arm Length Description</th>
<th>2.100 mm</th>
<th>2.500 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. digging height</td>
<td>8.930 mm</td>
<td>9.190 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>6.540 mm</td>
<td>6.905 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>5.010 mm</td>
<td>5.410 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>3.978 mm</td>
<td>4.365 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2.44 m level</td>
<td>4.779 mm</td>
<td>5.202 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>8.142 mm</td>
<td>8.518 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>7.945 mm</td>
<td>8.331 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>2.605 mm</td>
<td>2.650 mm</td>
</tr>
</tbody>
</table>
WORKING RANGE

TWO-PIECE BOOM + ROTATING ARM

<table>
<thead>
<tr>
<th>ARM LENGTH</th>
<th>2.600 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>A  Max. digging height</td>
<td>9.255 mm</td>
</tr>
<tr>
<td>B  Max. dumping height</td>
<td>6.880 mm</td>
</tr>
<tr>
<td>C  Max. digging depth</td>
<td>5.500 mm</td>
</tr>
<tr>
<td>D  Max. vertical wall digging depth</td>
<td>4.215 mm</td>
</tr>
<tr>
<td>E  Max. digging depth of cut for 2.44 m level</td>
<td>5.295 mm</td>
</tr>
<tr>
<td>F  Max. digging reach</td>
<td>8.615 mm</td>
</tr>
<tr>
<td>G  Max. digging reach at ground level</td>
<td>8.430 mm</td>
</tr>
<tr>
<td>H  Min. swing radius</td>
<td>2.675 mm</td>
</tr>
</tbody>
</table>
## HYDRAULIC WHEELED EXCAVATOR

### MONO BOOM

<table>
<thead>
<tr>
<th>Arm length</th>
<th>Without stabilizer</th>
<th>Rear outrigger</th>
<th>Rear blade</th>
<th>Front outrigger + rear blade</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.5 m</td>
<td>2.800 *2.800</td>
<td>3.450 2.750</td>
<td>4.100</td>
<td>4.100</td>
</tr>
<tr>
<td>6.0 m</td>
<td>2.300 1.800</td>
<td>3.050 1.600</td>
<td>3.800 2.700</td>
<td>3.800 2.700</td>
</tr>
<tr>
<td>4.5 m</td>
<td>2.150 1.350</td>
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</tr>
<tr>
<td>3.0 m</td>
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<td>2.800 1.450</td>
<td>4.650 2.300</td>
<td>4.650 2.300</td>
</tr>
<tr>
<td>1.5 m</td>
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<td>2.800 1.350</td>
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<td>4.550 2.100</td>
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<tr>
<td>-1.5 m</td>
<td>3.000 1.350</td>
<td>3.000 1.500</td>
<td>4.400 2.300</td>
<td>4.400 2.300</td>
</tr>
<tr>
<td>0.0 m</td>
<td>3.700 1.850</td>
<td>4.550 2.200</td>
<td>7.200 4.100</td>
<td>7.200 4.100</td>
</tr>
<tr>
<td>-1.5 m</td>
<td>3.750 1.900</td>
<td>3.850 2.550</td>
<td>6.100 4.200</td>
<td>6.100 4.200</td>
</tr>
</tbody>
</table>

### LIFTING CAPACITY

- Reach from swing center
- Bucket hook height
- Lifting capacities, including bucket (462 kg), bucket linkage (84 kg) and bucket cylinder (92 kg)
- Rating over front
- Rating over side
- Rating over maximum reach

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

### Ratings

- A = Reach from swing center
- B = Bucket hook height
- C = Lifting capacities, including bucket (462 kg), bucket linkage (84 kg) and bucket cylinder (92 kg)

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

* Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
## Lifting Capacity

### Two-Piece Boom

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>B</th>
<th>A</th>
<th>6.0 m</th>
<th>4.5 m</th>
<th>3.0 m</th>
<th>1.5 m</th>
</tr>
</thead>
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<td><strong>kg</strong></td>
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<td><strong>kg</strong></td>
<td><strong>kg</strong></td>
<td><strong>kg</strong></td>
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<tr>
<td><strong>Without Stabilizer</strong></td>
<td></td>
<td></td>
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<tr>
<td>7.5 m</td>
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<td>2.750</td>
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</tr>
<tr>
<td>6.0 m</td>
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<td>1.600</td>
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<td>2.750</td>
<td></td>
<td></td>
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<td>4.5 m</td>
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<td>1.200</td>
<td>3.050</td>
<td>1.650</td>
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<td>1.000</td>
<td>2.950</td>
<td>1.650</td>
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<td>4.450</td>
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</tr>
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<td><strong>Rear Blade</strong></td>
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<td></td>
<td>5.200</td>
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</tr>
</tbody>
</table>

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on SAE Standard No. J1097. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.
Two-Piece Boom + Rotating Arm

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>A</th>
<th>7.5 m</th>
<th>6.0 m</th>
<th>4.5 m</th>
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<td>2.300</td>
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<td>4.750</td>
<td>3.750</td>
</tr>
</tbody>
</table>

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

A = Reach from swing center
B = Bucket hook height
C = Lifting capacities, including bucket (462 kg), bucket linkage (84 kg) and bucket cylinder (92 kg)

- Rating over front
- Rating over side
- Rating at maximum reach
**HYDRAULIC WHEELED EXCAVATOR**

### STANDARD EQUIPMENT

- Komatsu SAA4D102E-2 78 kW direct injection emissionised Stage II intercooled turbocharged engine
- Double element type air cleaner with dust indicator and auto dust evacuator
- Suction type cooling fan
- Automatic fuel line de-aeration
- Engine key stop
- Engine ignition can be password secured on request
- Engine overheat prevention system
- Auto-deceleration function
- Automatic engine warm-up system
- Alternator 24 V/40 A
- Batteries 2 × 12 V/95 Ah
- Starter motor 24 V/5.5 kW
- Standard counterweight
- Electronic closed-centre load sensing (E-CLSS) hydraulic system (HydrauMind)
- Pump and engine mutual control (PEMC) system
- Multi-function colour monitor with equipment management monitoring system (EMMS)
- 4-working mode selection system; Active mode, economy mode, breaker mode and lifting mode
- PowerMax function
- Adjustable PPC wrist control levers for arm, boom, bucket and swing
- One additional 2-way service valve (full flow)
- Fully automatic 3-speed transmission driving through front and rear planetary axles
- Orbitrol type hydraulic steering acting on front wheels
- Oscillating front axle (7°) with automatic and manual cylinder locking
- Dual circuit hydraulic brakes with outboard wet multi-disc service brakes
- Spring actuated park brake (hydraulic release) incorporated into transmission
- SpaceCab™, highly pressurized and tightly sealed viscous mounted cab with tinted safety glass windows, pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, sun blind roller, magazine rack behind seat, 12 V power supply, cigarette lighter, ashtray, floor mat, machine cab handrails, suspension seat with tiltable left hand console, automatic weight adjustment, adjustable arm rests and retractable seat belt, hot and cool box
- Parts book and operator manual
- Lockable fuel cap and covers
- Fuel supply pump
- Overload warning device
- Boom safety valves
- Climate control/Air conditioning
- Radio cassette preparation
- Toolkit and spare parts for first service
- Single chassis tool box
- Standard colour scheme and decals
- Four sets of tyre and rim (twin tyre) 10.00-20 14 PR

### OPTIONAL EQUIPMENT

- Mono boom
- Two-piece boom
- 2.1 m; 2.5 m arms
- 2.6 m rotating arms
- Parallel blade (front and/or rear)
- 2 or 4 outriggers with cylinder protection
- Four sets of tyre and rim (single tyre) 18.00-19.5
- Nokian tyres 10-20
- Bandenmarkt twin tyres type grader 315/80 R 22.5
- Komatsu quick couplers
- Komatsu buckets
- Transmission guard
- Clamshell grip bar
- Cold weather battery 120 Ah
- Adjust cylinder safety valve
- Arm cylinder safety valve
- Heated air suspension seat
- Radio-cassette
- QP Level II front guard (QFPS)
- Additional RH boom lamp
- Beacon + rear facing cab lamp
- Additional large capacity cab roof lights (2)
- Bio oil
- Dozer blade cylinder guard
- Rain visor (not for use with OPG)
- Additional chassis tool box
- Customized paint