PC160LC-7

KOMATSU

Hydraulic Excavator

PC160LC-7

NET HORSEPOWER
82 kW 111 HP @ 2,200 rpm

OPERATING WEIGHT
17,060 - 18,620 kg

BUCKET CAPACITY
max. 0,94 m³
The PC160LC-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, HydraulMind system assists in all operations, providing enhanced machine performance that’s always perfectly matched to the task.

**What’s new on Dash 7:**
- Higher production
- Low fuel consumption
- Easier maintenance and serviceability
- Improved operator comfort
- Lower noise
- Meets EC Stage II emission regulations
- Advanced Attachment Control
- Multi-function colour monitor

**High productivity and low fuel consumption**
The powerful turbocharged and air-to-air aftercooled Komatsu SAA4D102E-2 provides 82 kW/111 HP. Productivity has increased with greater output in the ‘Active’ mode, while fuel efficiency has been further improved.

**Advanced Attachment Control**
The PC160LC-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

**Greater lifting capacity**
Lateral stability and lifting capacity have been improved by increasing the track length on ground (compared to PC160-6).

**Excellent reliability and durability**
- Reinforced work equipment
- Reliable major components designed and built by Komatsu
- Exceptionally-reliable electronic devices
- Strengthened undercarriage that utilises PC210-7 class components

**Larger drawbar pull**
Drawbar pull is 15% increased offering superb steering and slope climbing (compared with PC160-6).
HYDRAULIC EXCAVATOR

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NET HORSEPOWER
82 kW 111 HP

OPERATING WEIGHT
17.060 - 18.620 kg

BUCKET CAPACITY
max. 0.94 m³

Easy maintenance
- Extended hydraulic filter replacement interval
- Remote-mounted engine oil filter and fuel drain valve, for easy access
- Standard-equipped water separator
- Easier radiator cleaning
- Increased fuel tank capacity
- SCSH bushings on the work equipment extend the lubricating interval significantly

SpaceCab™
The new PC160LC-7’s cabin space has been increased by 14%, offering an exceptionally-roomy operating environment.
- Sealed and pressurised cab with standard air conditioning
- Low-noise design
- Low-vibration design with cabin damper mounting
- OPG Level I (ISO) compliant cabin

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 PC160LC-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. Operating mode
2. Service hours meter
3. Travel speed
4. Engine water gauge
5. Engine water temperature warning
6. Hydraulic oil gauge
7. Hydraulic oil temperature warning
8. Fuel level gauge
9. Fuel low level warning
10. Swing lock
11. Pre-heat
12. Continuous/intermittent window wiper
13. Auto deceleration
14. PowerMax

Push-button control switches

1. ‘Active’ mode
2. ‘Economy’ mode
3. ‘Lifting’ mode
4. ‘Breaker’ mode
5. Travel speed selector switch
6. Auto deceleration
7. Window washer
8. Window wiper
9. Select (For attachment oil flow adjustment)
10. Maintenance mode
11. Screen brightness adjustment
12. Input (return)
13. Input (up)
14. Input (down)
15. Input (confirm)
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 (compared with the ‘Active’ mode), and production is equal to the PC160-6’s ‘HO’ mode.

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 two-speed travel
<table>
<thead>
<tr>
<th></th>
<th>High</th>
<th>Low</th>
</tr>
</thead>
<tbody>
<tr>
<td>Travel speed</td>
<td>5.5 km/h</td>
<td>3.4 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.
PC160LC-7’s cab interior is spacious and provides a comfortable working environment...

SpaceCab™

**Comfortable cab**
The new PC160LC-7 inner cab volume is 14% greater than the Dash 6, offering an exceptionally comfortable operating environment. The large cab enables the seat, with headrest, to be reclined to horizontal.

**Pressurised cab**
The standard-equipped air conditioner, 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**
PC160LC-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.

Riding comfort comparison

<table>
<thead>
<tr>
<th>Cab damper mounting</th>
<th>Multi-layer viscous mount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Conditions:
- Travelling over obstacle, one side track
- High-speed forward travel

Floor vibration

Vertical pitch oscillation on the graph shows the intensity of vibration

**Outer air filter**
Easy removal/installation of the air conditioner filter element, without tools facilitates easier cleaning.

**Roof hatch**

**12-Volt power supply and (optional) radio cassette**

**Climate control**

**Bottle holder and magazine rack**
**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.

- Hot and cool box
- 3 button lever
- Seat sliding range: 340 mm – increased by 120 mm over the Dash 6
- Defroster/demister

**Safety features**

**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.

**Thermal guard**

**Non-slip sheet**

**Large handrail for safe access**
High production levels and low fuel consumption
The increased output and fuel savings of the Komatsu SAA4D102E-2 engine result in increased productivity (tonnes per litre of fuel).

Greater lifting capacity
PC160LC-7’s stability is greater than before. Also the hydraulic pressure has increased. The result: the PC160LC-7’s lifting capacity is greater. Example: the over-side lifting capacity (reach 6.0 m, height 6.0 m) has increased from 2.7 tonnes to 2.9 tonnes (with 2.6 m arm).

Engine
The PC160LC-7 gets its exceptional power and work capacity from a Komatsu SAA4D102E-2 engine. Its output is 82 kW/111 HP, providing increased hydraulic power and improved fuel efficiency.

Hydraulics
The unique two-pump system ensures smooth, simultaneous movement of the work equipment. Komatsu’s exclusive HydrauMind system controls both of the pumps for most-efficient use of engine power. The system also reduces hydraulic loss during operations. Optional, additional hydraulic circuits may be ordered.

Bucket digging force*: 12.500 kg
Arm crowd force*: 9.700 kg
* Measured with PowerMax function, 2.2 m arm and ISO rating

Larger drawbar pull
PC160LC-7’s maximum drawbar pull has been increased by 15% over Dash 6, providing superb slope climbing capability. Maximum drawbar pull: 15.950 kg

OPG top and front guard
The optional bolt-on OPG (Operation Protection Guard) top guard and front guard are available for operations in jobsites where there is high possibility of falling rocks or debris. OPG level 2 for top and front guard according to ISO 10262.
Excellent reliability and durability

Reliable components
All of the major machine components, such as the engine, hydraulic pump, hydraulic motor and control valves, are designed and manufactured by Komatsu. This guarantees that each component is expressly built for the class and model of machine. This ensures that the engineering, manufacturing standards and testing that go into each component are ‘totally-Komatsu’.

Highly-rigid, robust work equipment
The strengthened boom and arm have large cross-sectional dimensions as well as continuous two-sided groove welding, improving the digging and side-contact strengths.

Sturdy frame structure
The revolving frame, centre frame and undercarriage have been designed using the most advanced three-dimensional Computer Aided Design (CAD) and Finite Elements Modelling (FEM) analysis technology.

Highly-reliable electronic devices
Exclusively-designed electronic devices are certified by severe testing.
- Controller
- Sensors
- Connectors
- Heat-resistant wiring

Metal guard rings
These protect all hydraulic cylinders and improve reliability.

Harmony with the environment

Low-emission engine
Komatsu SAA4D102E-2 is EC Stage II compliant, with reduced NOx emissions, compared to the PC160-6.

Economy (environment) mode
‘Economy’ mode meets the needs of the 21st century. This mode offers the user fuel savings, quiet operation, and less CO₂ emissions.

Low noise
Noise has been reduced from the engine as well as from swing and hydraulic operations. The dynamic noise level is just 69 dB(A) at operator ear level (ISO 6369).

Easy end-of-life recycling
The PC160LC-7 is designed with the consideration of end-of-life recycling, effectively reducing its environmental impact.
- All exterior parts are made of steel.
- Extended engine oil, hydraulic oil and filter replacement intervals reduce environmental impact.
- All plastic parts are given a material code symbol.
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

Extended replacement intervals for engine oil and filters
New, high-performance filters are used in the hydraulic circuit and engine. Replacement intervals for the hydraulic oil filter have been significantly extended, reducing maintenance costs.

<table>
<thead>
<tr>
<th>Replacement intervals</th>
<th>PC160LC-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>1,000 h</td>
</tr>
</tbody>
</table>

With SCSH bushings, all work equipment lubrication intervals have been extended
Newly-developed SCSH (Steel Copper Sinter Hard Material) bushings are used on all work equipment joints*. As a result, all work equipment bushing lubrication intervals have been significantly extended, with some joints only needing lubrication every 500 hours, thus reducing maintenance costs.

* Available for bucket pin, depending on bucket design

Tungsten carbide-injected bushing
Tungsten carbide is injected into the end faces of the arm-top bushing to form a hard film. This reduces the wear of the surface contact areas and fluttering of the bucket.
Easy maintenance

Komatsu designed the PC160LC-7 to have easy service access. By doing this, routine maintenance and servicing are less likely to be skipped. This can mean a reduction in costly downtime later on. Here are some of the many service features found on the PC160LC-7:

**Side-by-side cooling**
Since radiator, aftercooler and oil cooler are arranged in parallel, it is easy to clean, remove and install them.

**Water separator**
This is standard equipment which removes any water that has become mixed with the fuel, preventing fuel system damage.

**Easy access to the engine oil filter and fuel drain valve**
The engine oil filter and fuel drain valve are mounted remotely to improve accessibility.
ENGINE
Model: Komatsu SAA4D102E-2
Type: Direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Rated capacity: 82 kW/111 HP (ISO 9249 Net) at engine speed 2,000 rpm
No. of cylinders: 4
Bore × stroke: 102 × 120 mm
Displacement: 3,92 ltr
Battery: 2 × 12 V/95 Ah
Alternator: 24 V/60 A
Starter motor: 24 V/4,5 kW
Air filter type: Double element type with monitor panel dust indicator and auto dust evacuator
Cooling: Suction type cooling fan with radiator fly screen

HYDRAULIC SYSTEM
Type: HydraulMind. Closed-centre system with load sensing and pressure compensation valves
Additional circuits: Depending on the specification, 1 additional circuit can be installed
Main pump: Variable displacement piston pump supplying boom, arm, bucket, swing and travel circuits
Maximum pump flow: 312 ltr/min
Relief valve settings:
- Implement: 380 bar
- Travel: 380 bar
- Swing: 295 bar
Pilot circuit: 33 bar

ENVIRONMENT
Engine emissions: Fully complies with EC Stage II exhaust emission regulations
Noise levels:
- LwA external: 101 dB(A) (2000/14/EC Stage 2)
- LpA operator ear: 69 dB(A) (ISO 6369 dynamic test)

OPERATING WEIGHT (APPR.)
Operating weight, including 5,150 mm one-piece boom, two-piece boom, 2,6 m arm, 0,75 m³ bucket, operator, lubricant, coolant, full fuel tank and the standard equipment.

<table>
<thead>
<tr>
<th>MONO BOOM</th>
<th>TWO-PIECE BOOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>PC160LC-7</td>
<td></td>
</tr>
<tr>
<td>Triple grouser shoes</td>
<td>Operating weight</td>
</tr>
<tr>
<td>500 mm</td>
<td>17,060 kg</td>
</tr>
<tr>
<td>600 mm</td>
<td>17,280 kg</td>
</tr>
<tr>
<td>700 mm</td>
<td>17,500 kg</td>
</tr>
<tr>
<td>800 mm</td>
<td>17,720 kg</td>
</tr>
</tbody>
</table>

HYDRAULIC EXCAVATOR SPECIFICATIONS

SWING SYSTEM
Type: Hydrostatic
Swing lock: Mechanical disc brake
Swing speed: 0 - 12 rpm
Swing torque: 44,3 kNm

DRIVES AND BRAKES
Steering control: 2 levers with pedals giving full independent control of each track
Drive method: Hydrostatic
Travel operation: Automatic 2-speed selection
Gradeability: 70%, 35°
Max. travel speeds:
- Lo / Hi: 3,4 / 5,5 km/h
Maximum drawbar pull: 15,950 kg
Brake system: Hydraulically operated discs in each travel motor

UNDERCARRIAGE
Construction: X-frame centre section with box section track-frames
Track assembly:
Type: Fully sealed
Shoes (each side): 44
Tension: Combined spring and hydraulic unit
Rollers: 7
Track rollers (each side): 2
Carrier rollers (each side): 2

COOLANT AND LUBRICANT CAPACITY (REFILLING)
Fuel tank: 280 ltr
Radiator: 17,3 ltr
Engine oil: 14,0 ltr
Swing drive: 4,5 ltr
Hydraulic tank: 121 ltr
Final drive (each side): 4,5 ltr
# MACHINE DIMENSIONS

<table>
<thead>
<tr>
<th>MACHINE DIMENSIONS</th>
<th>PC160LC-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Overall width of upper structure</td>
<td>2.490 mm</td>
</tr>
<tr>
<td>B Overall height of cab</td>
<td>2.970 mm</td>
</tr>
<tr>
<td>C Overall length of basic machine</td>
<td>4.373 mm</td>
</tr>
<tr>
<td>D Tail length</td>
<td>2.390 mm</td>
</tr>
<tr>
<td>Tail swing radius</td>
<td>2.435 mm</td>
</tr>
<tr>
<td>E Clearance under counterweight</td>
<td>1.055 mm</td>
</tr>
<tr>
<td>F Machine tail height</td>
<td>2.090 mm</td>
</tr>
<tr>
<td>G Ground clearance</td>
<td>440 mm</td>
</tr>
<tr>
<td>H Track length on ground</td>
<td>3.170 mm</td>
</tr>
<tr>
<td>I Track length</td>
<td>3.965 mm</td>
</tr>
<tr>
<td>J Track gauge</td>
<td>1.990 mm</td>
</tr>
<tr>
<td>K Track shoe width</td>
<td>500, 600, 700, 800 mm</td>
</tr>
<tr>
<td>L Overall track width with 500 mm shoe</td>
<td>2.490 mm</td>
</tr>
<tr>
<td>Overall track width with 600 mm shoe</td>
<td>2.590 mm</td>
</tr>
<tr>
<td>Overall track width with 700 mm shoe</td>
<td>2.690 mm</td>
</tr>
<tr>
<td>Overall track width with 800 mm shoe</td>
<td>2.790 mm</td>
</tr>
</tbody>
</table>

**MONO BOOM**

**TWO-PIECE BOOM**

<table>
<thead>
<tr>
<th>ARM LENGTH</th>
<th>MONO BOOM</th>
<th>TWO-PIECE BOOM</th>
</tr>
</thead>
<tbody>
<tr>
<td>M Transport length</td>
<td>2.2 m 8.565 mm</td>
<td>2.2 m 8.550 mm</td>
</tr>
<tr>
<td>N Length on ground (transport)</td>
<td>2.6 m 8.565 mm</td>
<td>2.6 m 8.550 mm</td>
</tr>
<tr>
<td>O Overall height (to top of boom)</td>
<td>2.9 m 8.565 mm</td>
<td>2.9 m 8.525 mm</td>
</tr>
<tr>
<td>P Overall height (to top of hose)</td>
<td>2.2 m 5.130 mm</td>
<td>2.2 m 5.100 mm</td>
</tr>
<tr>
<td></td>
<td>2.6 m 4.760 mm</td>
<td>2.6 m 4.900 mm</td>
</tr>
<tr>
<td></td>
<td>2.9 m 4.565 mm</td>
<td>2.9 m 4.900 mm</td>
</tr>
<tr>
<td></td>
<td>2.2 m 5.400 mm</td>
<td>2.2 m 5.400 mm</td>
</tr>
<tr>
<td></td>
<td>2.6 m 5.100 mm</td>
<td>2.6 m 5.100 mm</td>
</tr>
<tr>
<td></td>
<td>2.9 m 5.100 mm</td>
<td>2.9 m 5.100 mm</td>
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<tr>
<td></td>
<td>2.2 m 3.000 mm</td>
<td>2.2 m 3.000 mm</td>
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<td></td>
<td>2.6 m 3.100 mm</td>
<td>2.6 m 3.100 mm</td>
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<td></td>
<td>2.9 m 3.100 mm</td>
<td>2.9 m 3.100 mm</td>
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<tr>
<td></td>
<td>2.2 m 2.990 mm</td>
<td>2.2 m 2.990 mm</td>
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<tr>
<td></td>
<td>2.6 m 3.000 mm</td>
<td>2.6 m 3.000 mm</td>
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<td></td>
<td>2.9 m 3.000 mm</td>
<td>2.9 m 3.000 mm</td>
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<tr>
<td></td>
<td>2.2 m 3.105 mm</td>
<td>2.2 m 3.105 mm</td>
</tr>
<tr>
<td></td>
<td>2.6 m 3.170 mm</td>
<td>2.6 m 3.170 mm</td>
</tr>
<tr>
<td></td>
<td>2.9 m 3.280 mm</td>
<td>2.9 m 3.280 mm</td>
</tr>
</tbody>
</table>
Specifications and equipment may vary according to regional availability

**PC160LC-7**

### BUCKET AND ARM COMBINATION

<table>
<thead>
<tr>
<th>Width</th>
<th>Capacity SAE</th>
<th>Weight</th>
<th>PC160LC-7</th>
</tr>
</thead>
<tbody>
<tr>
<td>600 mm</td>
<td>0.38 m³</td>
<td>385 kg</td>
<td>2.2 m</td>
</tr>
<tr>
<td>700 mm</td>
<td>0.47 m³</td>
<td>435 kg</td>
<td>2.6 m</td>
</tr>
<tr>
<td>800 mm</td>
<td>0.56 m³</td>
<td>465 kg</td>
<td>2.9 m</td>
</tr>
<tr>
<td>900 mm</td>
<td>0.66 m³</td>
<td>495 kg</td>
<td></td>
</tr>
<tr>
<td>1.000 mm</td>
<td>0.75 m³</td>
<td>530 kg</td>
<td></td>
</tr>
<tr>
<td>1.200 mm</td>
<td>0.94 m³</td>
<td>615 kg</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.

- ○ Material weight up to 1.8 t/m³
- □ Material weight up to 1.5 t/m³
- △ Material weight up to 1.2 t/m³
- – Not usable

**A full range of Komatsu wear parts is available.**

A wide range of attachments is available. Please consult your distributor for details of the full range.

### BUCKET AND ARM FORCE

<table>
<thead>
<tr>
<th>Arm length</th>
<th>2.2 m</th>
<th>2.6 m</th>
<th>2.9 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force</td>
<td>11.500 kg</td>
<td>11.500 kg</td>
<td>11.500 kg</td>
</tr>
<tr>
<td>Bucket digging force at power max.</td>
<td>12.500 kg</td>
<td>12.500 kg</td>
<td>12.500 kg</td>
</tr>
<tr>
<td>Arm crowd force</td>
<td>9.050 kg</td>
<td>8.200 kg</td>
<td>7.550 kg</td>
</tr>
<tr>
<td>Arm crowd force at power max.</td>
<td>9.700 kg</td>
<td>8.800 kg</td>
<td>8.100 kg</td>
</tr>
</tbody>
</table>
WORKING RANGES

MONO BOOM

<table>
<thead>
<tr>
<th>ARM LENGTH</th>
<th>2.2 m</th>
<th>2.6 m</th>
<th>2.9 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. digging height</td>
<td>8.910 mm</td>
<td>8.980 mm</td>
<td>9.130 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>6.280 mm</td>
<td>6.370 mm</td>
<td>6.525 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>5.610 mm</td>
<td>5.960 mm</td>
<td>6.250 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>4.860 mm</td>
<td>5.040 mm</td>
<td>5.320 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2.44 m level</td>
<td>5.375 mm</td>
<td>5.740 mm</td>
<td>6.050 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>8.680 mm</td>
<td>8.960 mm</td>
<td>9.235 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>8.510 mm</td>
<td>8.800 mm</td>
<td>9.075 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>3.040 mm</td>
<td>2.990 mm</td>
<td>2.995 mm</td>
</tr>
</tbody>
</table>
TWO-PIECE BOOM

<table>
<thead>
<tr>
<th>ARM LENGTH</th>
<th>2.2 m</th>
<th>2.6 m</th>
<th>2.9 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Max. digging height</td>
<td>9.245 mm</td>
<td>9.375 mm</td>
<td>9.555 mm</td>
</tr>
<tr>
<td>B Max. dumping height</td>
<td>6.575 mm</td>
<td>6.715 mm</td>
<td>6.900 mm</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>5.440 mm</td>
<td>5.780 mm</td>
<td>6.070 mm</td>
</tr>
<tr>
<td>D Max. vertical wall digging depth</td>
<td>4.525 mm</td>
<td>4.810 mm</td>
<td>5.085 mm</td>
</tr>
<tr>
<td>E Max. digging depth of cut for 2.44 m level</td>
<td>5.331 mm</td>
<td>5.676 mm</td>
<td>5.970 mm</td>
</tr>
<tr>
<td>F Max. digging reach</td>
<td>8.755 mm</td>
<td>9.060 mm</td>
<td>9.335 mm</td>
</tr>
<tr>
<td>G Max. digging reach at ground level</td>
<td>8.590 mm</td>
<td>8.900 mm</td>
<td>9.180 mm</td>
</tr>
<tr>
<td>H Min. swing radius</td>
<td>3.030 mm</td>
<td>2.960 mm</td>
<td>3.000 mm</td>
</tr>
</tbody>
</table>
**PC160LC-7 HYDRAULIC EXCAVATOR**

### LIFTING CAPACITY

#### PC160LC-7 MONO BOOM

![Diagram of PC160LC-7 Excavator](image)

- **A** – Reach from swing center
- **B** – Bucket hook height
- **C** – Lifting capacities, including bucket linkage (200 kg) and bucket cylinder (140 kg)

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

#### Table: Lifting Capacities

<table>
<thead>
<tr>
<th>Arm length</th>
<th>7.5 m</th>
<th>6.0 m</th>
<th>4.5 m</th>
<th>3.0 m</th>
<th>1.5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>With 500 mm shoe</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.2 m 695 kg 0.65 m³</td>
<td>6.0 m kg *2.400 *2.400 *3.250 2.450</td>
<td>4.5 m kg *2.300 2.050 *4.500 2.700 *6.300 4.300 *9.700 6.150</td>
<td>3.0 m kg *2.450 1.800 4.500 2.700 *6.300 4.300 *9.700 6.150</td>
<td>1.5 m kg *2.700 1.700 2.950 1.750 4.300 2.550 6.800 3.850</td>
<td>0.0 m kg *2.900 1.700 4.150 2.400 6.550 3.750 *6.750 *7.750</td>
</tr>
<tr>
<td><strong>With 500 mm shoe</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.6 m 695 kg 0.65 m³</td>
<td>6.0 m kg *2.000 *2.000 *3.350 2.900</td>
<td>4.5 m kg *2.000 1.900 *4.200 2.850</td>
<td>3.0 m kg *2.050 1.650 3.050 1.800 4.500 2.750 *5.900 4.400 *8.700 6.450</td>
<td>1.5 m kg *2.300 1.600 3.000 1.750 4.300 2.550 6.900 4.000 *7.800 7.350</td>
<td>0.0 m kg *2.650 1.600 2.900 1.700 4.100 2.400 6.600 3.750 *7.350 6.950</td>
</tr>
<tr>
<td><strong>With 500 mm shoe</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.9 m 495 kg 0.65 m³</td>
<td>6.0 m kg *1.750 *1.750 *3.250 2.900</td>
<td>4.5 m kg *1.700 *1.700 *2.250 1.850 *3.900 2.850</td>
<td>3.0 m kg 1.800 1.550 3.050 1.800 4.500 2.700 *5.500 4.400 *7.800 7.850</td>
<td>1.5 m kg 1.950 1.450 2.950 1.700 4.300 2.550 6.900 4.000 *10.000 7.450</td>
<td>0.0 m kg 2.250 1.450 2.850 1.650 4.100 2.400 6.600 3.700 *7.650 6.950</td>
</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.
PC160LC-7
TWO-PIECE BOOM

A – Reach from swing center
B – Bucket hook height
C – Lifting capacities, including bucket linkage (200 kg) and bucket cylinder (140 kg)

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

<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>
<th>3,0 m</th>
<th>1,5 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>With 500 mm shoe</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7,5 m kg</td>
<td>2,900 * 2,900</td>
<td>2,900</td>
<td>3,750 * 2,900</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6,0 m kg</td>
<td>2,500 * 2,500</td>
<td>2,000</td>
<td>4,650 * 2,500</td>
<td>5,250 4,650</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4,5 m kg</td>
<td>2,400</td>
<td>1,750</td>
<td>1,800</td>
<td>4,500 * 2,700</td>
<td>6,200 4,350 * 9,400 8,200</td>
<td></td>
</tr>
<tr>
<td>3,0 m kg</td>
<td>2,450</td>
<td>1,750</td>
<td>3,050</td>
<td>4,300</td>
<td>5,750 4,350 * 9,400 8,200</td>
<td></td>
</tr>
<tr>
<td>1,5 m kg</td>
<td>2,650</td>
<td>1,650</td>
<td>3,000</td>
<td>4,300</td>
<td>5,750 4,350 * 9,400 8,200</td>
<td></td>
</tr>
<tr>
<td>0,0 m kg</td>
<td>2,950</td>
<td>1,700</td>
<td>2,950</td>
<td>4,200</td>
<td>6,600</td>
<td>3,750 * 5,750 * 5,750</td>
</tr>
<tr>
<td>-1,5 m kg</td>
<td>3,250</td>
<td>1,900</td>
<td>1,450</td>
<td>2,400</td>
<td>6,550</td>
<td>3,650 * 9,750 7,000</td>
</tr>
<tr>
<td>-3,0 m kg</td>
<td>4,100</td>
<td>2,400</td>
<td>4,200</td>
<td>2,450</td>
<td>6,600</td>
<td>3,750</td>
</tr>
</tbody>
</table>

| With 500 mm shoe |
| 7,5 m kg | 2,350 * 2,350 | 2,350 | 3,650 * 2,350 |
| 6,0 m kg | 2,100 * 2,100 | 2,100 | 3,650 * 2,950 |
| 4,5 m kg | 2,000 | 1,850 | 2,050 | 1,850 | 4,200 | 2,900 |
| 3,0 m kg | 2,050 | 1,600 | 3,050 | 1,800 | 4,550 | 2,750 | 5,750 4,400 | 8,250 | 8,250 |
| 1,5 m kg | 2,250 | 1,550 | 3,000 | 1,750 | 4,350 | 2,550 | 6,950 4,000 | 6,600 | 6,600 |
| 0,0 m kg | 2,550 | 1,550 | 2,950 | 1,700 | 4,200 | 2,450 | 6,650 | 3,750 | 6,400 | 6,400 |
| -1,5 m kg | 3,000 | 1,750 | 4,100 | 2,350 | 6,550 | 3,650 | 9,400 | 6,950 |
| -3,0 m kg | 3,700 | 2,150 | 4,150 | 2,400 | 6,550 | 3,700 | 14,250 7,100 |

| With 500 mm shoe |
| 7,5 m kg | 2,050 * 2,050 | 2,050 | 3,450 * 2,050 |
| 6,0 m kg | 1,800 * 1,800 | 1,800 | 3,450 * 2,950 |
| 4,5 m kg | 1,750 | 1,700 | 2,650 | 1,850 | 2,850 | 2,900 |
| 3,0 m kg | 1,800 | 1,550 | 3,050 | 1,800 | 4,550 | 2,750 | 5,400 | 4,450 | 7,300 | 7,300 |
| 1,5 m kg | 1,900 | 1,400 | 3,000 | 1,700 | 4,350 | 2,550 | 7,000 | 4,050 | 8,550 | 7,500 |
| 0,0 m kg | 2,150 | 1,450 | 2,900 | 1,650 | 4,150 | 2,400 | 6,650 | 3,750 | 6,700 | 6,700 |
| -1,5 m kg | 2,650 | 1,550 | 2,850 | 1,600 | 4,050 | 2,300 | 6,450 | 3,600 | 9,000 | 8,500 | 4,750 | 4,750 |
| -3,0 m kg | 3,350 | 1,900 | 4,050 | 2,300 | 6,500 | 3,600 | 13,350 6,850 |

* 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.
HYDRAULIC EXCAVATOR

STANDARD EQUIPMENT

- Komatsu SAA4D102E-2 82 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 with radiator fly screen
- Automatic fuel line de-aeration
- Engine key stop
- Alternator 24 V/60 A
- Batteries 2 × 12 V/95 Ah
- Starter motor 24 V/4,5 kW
- 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
- Standard counterweight
- PowerMax function
- Auto-deceleration function
- Automatic engine warm-up system
- Engine overheat prevention system
- Fuel control dial
- Adjustable PPC wrist control levers with 3 button controls for arm, boom, bucket and swing
- PPC control levers and pedals for steering and travel
- One additional service valve (full flow)
- Hydrostatic, 2-speed travel system with automatic shift and planetary gear type final drives, and hydraulic lock service brakes
- SpaceCab™; Highly pressurised and tightly sealed viscous mounted cab with tinted safety glass windows, opening roof hatch with window pull-up type front window with locking device, removable lower window, front window wiper with intermittent feature, ashtray, luggage box, floor mat
- Parts book and operator manual
- Lockable fuel cap and covers
- Remote greasing for swing circle and pins
- Fuel supply pump
- Track frame under-guards
- 12 Volt power supply
- Overload warning device
- Boom safety valves
- Climate control/Air conditioning
- Large handrails and rear-view mirrors
- Cigarette lighter
- Radio cassette preparation
- Beverage holder and magazine rack
- Electric horn
- Hot and cool box
- Toolkit and spare parts for first service
- Lights; 2 revolving frame lights and 1 boom light
- Suspension seat with adjustable arm rests and retractable seat belt
- Engine ignition can be password secured on request
- Standard colour scheme and decals
- 500 mm triple grouser track-shoes

OPTIONAL EQUIPMENT

- 600, 700, 800 mm triple grouser track-shoes
- Mono boom
- Two-piece boom
- 2.2 m; 2.6 m; 2.9 m arms
- Automatic greasing system
- Additional hydraulic circuits
- OPG Level II top guard (FOPS)
- OPG Level II front guard (FOPS)
- Heated air suspension seat
- Radio cassette
- Service points
- Beacon preparation
- Bio oil
- Additional cab roof lights
- Rain visor (not with OPG)
- Komatsu buckets
- Arm safety valve
- Customized paint

Call the experts

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www.komatsueurope.com

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