PC290LC-10
Tier 4 Interim Engine

**NET HORSEPOWER**
196 HP @ 2050 rpm
147 kW @ 2050 rpm

**OPERATING WEIGHT**
67,396–68,654 lb
30570–31141 kg

**BUCKET CAPACITY**
0.76–2.13 yd³
0.58–1.63 m³

PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT
Photos may include optional equipment
A powerful Komatsu SAA6D107E-2 engine provides a net output of 147 kW 196 HP. This engine is EPA Tier 4 Interim and EU stage 3B emissions certified.

Komatsu Variable Geometry Turbocharger (KVGT) uses a hydraulic actuator to provide optimum airflow under all speed and load conditions.

Komatsu Diesel Particulate Filter (KDPF) captures 90% of particulate matter and provides automatic regeneration that does not interfere with daily operation.

Large LCD color monitor panel:
- 7” high resolution screen
- Provides “Eco-Guidance” for fuel efficient operation
- Enhanced attachment control

Rearview monitoring system (standard)

Large displacement high efficiency pumps provide higher flow output and efficient operation.

Enhanced working modes are designed to match engine speed, pump delivery, and system pressure to the application.

Komatsu Closed Center Load Sensing (CLSS) hydraulic system provides quick response and smooth operation to maximize productivity.

Equipment Management Monitoring System (EMMS) continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Enhanced working environment
- High back, heated, and air suspension operator seat
- Integrated ROPS cab design (ISO 12117-2)
- Cab meets ISO Level 1 Operator Protective Guard (OPG) top guard (ISO 10262)

Komatsu designed and manufactured components

Komtrax equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

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Advanced Electronic Control System
The engine control system has been upgraded to effectively manage the air flow rate, EGR gas flow rate, fuel injection parameters, and aftertreatment functions. The new control system also provides enhanced diagnostic capabilities.

Environment-Friendly Engine
The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxides (NOx) by more than 45% when compared to Tier 3 levels.

Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology, providing high levels of performance and efficiency in virtually all applications.

Komatsu Diesel Particulate Filter (KDPF)
Komatsu has developed a high efficiency diesel particulate filter that captures more than 90% of particulate matter. Both passive and active regeneration are automatically initiated by the engine controller depending on the soot level of the KDPF. A special oxidation catalyst with a fuel injection system is used to oxidize and remove particulate matter while the machine is running so the regeneration process will not interfere with daily operation.

The operator can also initiate regeneration manually or disable regeneration depending on the work environment.

Closed Crankcase Ventilation (CCV)
Crankcase emissions (blow-by gas) are passed through a CCV filter. The CCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil mist free, is fed back to the air intake.
Komatsu Variable Geometry Turbocharger (KVGT)
Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under all speed and load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas and improved fuel economy while maintaining performance.

Redesigned Combustion Chamber
The combustion chamber located at the top of the engine piston has a new shape designed to improve combustion and further reduce NOx, PM, fuel consumption, and noise levels.

Low Operational Noise
The PC290LC-10 provides low noise operation using a low noise engine and methods that reduce noise at the source such as sound absorbing materials.

Cooled Exhaust Gas Recirculation (EGR)
Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emissions to meet Tier 4 levels. The hydraulically actuated EGR system has increased capacity and uses larger and more robust components to ensure reliability for demanding work conditions.

Heavy Duty High Pressure Common Rail (HPCR) Fuel Injection System
The heavy duty HPCR system is electronically controlled to deliver a precise quantity of pressurized fuel into the combustion chamber using multiple injection events to achieve complete fuel burn and reduce exhaust gas emissions. Fuel injector reliability has been improved by using ultra-hard wear resistant materials.

Large Digging Force
The PC290LC-10 is equipped with the Power Max system. This function temporarily increases digging force for 8.5 seconds of operation.

Maximum arm crowd force (ISO):
132 kN (13.4 t) ➞ 141 kN (14.4 t) 7 % UP
(with Power Max.)

Maximum bucket digging force (ISO):
184 kN (18.8 t) ➞ 198 kN (20.2 t) 8 % UP
(with Power Max.)
* Measured with Power Max function, 3200 mm arm and ISO rating
**Efficient Hydraulic System**
The PC290LC-10 uses a Closed Center Load Sensing (CLSS) hydraulic system that improves fuel efficiency and provides quick response to the operator’s demands.

The PC290LC-10 also introduces new technology to enhance the engine and hydraulic pump control. This total control system matches the engine and hydraulics at the most efficient point under any load condition. There have also been improvements in the main valve and hydraulic circuit to reduce hydraulic loss, resulting in higher efficiency and lower fuel consumption.

**Reduced Up To 10% Fuel consumption**

vs PC270LC-8
Based on typical work pattern collected via KOMTRAX

**Large Displacement High Efficiency Pump**
Pump displacement has been increased, providing increased flow output as well as operation at the most efficient engine speed.

**Working Mode Selection**
The PC290LC-10 excavator is equipped with six working modes (P, E, L, B, ATT/P and ATT/E). Each mode is designed to match engine speed, pump flow, and system pressure to the application. The PC290LC-10 features a new mode (ATT/E) which allows operators to run attachments while in Economy mode.

<table>
<thead>
<tr>
<th>Working Mode</th>
<th>Application</th>
<th>Advantage</th>
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<tbody>
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<td>Power mode</td>
<td>• Maximum production/power</td>
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<td>• Fast cycle times</td>
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<tr>
<td>E</td>
<td>Economy mode</td>
<td>• Good cycle times</td>
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<td></td>
<td></td>
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<td>L</td>
<td>Lifting mode</td>
<td>• Increases hydraulic pressure</td>
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<td>B</td>
<td>Breaker mode</td>
<td>• Optimum engine rpm, hydraulic flow</td>
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**Idling Caution**
To reduce unnecessary fuel consumption, an idling caution is displayed on the monitor if the engine idles for 5 minutes or more.

**New Work Equipment Design**
A new reach boom and arm design provides between one and two feet of additional digging reach.

**Eco-Gauge Assists with Energy Saving Operations**
The Eco-gauge and new fuel consumption gauge are viewed on the right side of the color monitor and assist the operator in maintaining low fuel consumption and environment friendly operation.
High Rigidity Work Equipment
Booms and arms are constructed with thick plates of high tensile strength steel. In addition, these structures are designed with large cross-sectional areas and large one piece castings in the boom foot, the boom tip, and the arm tip. The result is work equipment that exhibits long term durability and high resistance to bending and torsional stress.

Komatsu Designed Components
All of the major machine components such as the engine, hydraulic pumps, hydraulic motors, and control valves are exclusively designed and manufactured by Komatsu.

High Efficiency Fuel Filter
A new high efficiency dual element fuel filter improves fuel system reliability.

Equipped with a Fuel Pre-filter (With Water Separator)
A fuel pre-filter removes water and contaminants in the fuel to increase reliability. For convenience, the fuel pre-filter has a built in priming pump.

O-Ring Face Seals
Flat face-to-face O-ring seals are used to securely seal hydraulic hose connections.

Durable Frame Structure
The revolving frame, center frame, and undercarriage are designed using the most advanced three dimensional CAD and FEM analysis technology.

Highly Reliable Electronic Devices
Exclusively designed electronic devices have passed severe testing.
- Controllers
- Sensors
- Connectors
- Heat Resistant Wiring

DT-type Connectors
Sealed DT-type connectors provide high reliability, water resistance, and dust resistance.

Grease Sealed Track
The PC290LC-10 uses grease sealed tracks for extended undercarriage life.

Metal Guard Rings
The PC290LC-10 uses metal guard rings to protect all of the hydraulic cylinders and improve long term reliability.

Durable Arm Tip Bushing
The end face of the arm tip bushing provides high resistance to seizure and wear.

Robust Undercarriage Design
The PC290LC-10 has a robust undercarriage design using many of the same components that are used on larger machines, such as the links, shoes, rollers, and idlers.
Newly Designed Wide Spacious Cab
The newly designed wide spacious cab features a high back, fully adjustable seat with a reclining backrest. The console and seat have an integrated design so that they move together and provide additional comfort for the operator.

The new higher capacity operator seat has been enhanced to provide more comfort.

• Heated
• Air Suspension
• Integrated Seat
• Console Mounted Arm Rests

Low Cab Noise
The new cab design is highly rigid and has excellent sound absorption ability. By improving noise source reduction and by using a low noise engine, hydraulic equipment, and air conditioner, this machine is able to generate low noise levels similar to that of a modern automobile.

Automatic Air Conditioner
The automatic air conditioner allows the operator to easily and precisely set the cab atmosphere using the large LCD color monitor panel. The bi-level control function improves air flow and keeps the inside of the cab comfortable throughout the year.

Pressurized Cab
The air conditioner, air filter, and a higher internal cab air pressure minimize the amount of external dust that enters the cab.

Low Vibration with Viscous Cab Mounts
The PC290LC-10 uses viscous mounts for the cab that incorporate a longer stroke and the addition of a spring. The cab damper mounting combined with a high rigidity deck reduces vibration at the operator’s seat.

Auxiliary Input (MP3 Jack)
By connecting an auxiliary device such as an MP3 player to the auxiliary input, the operator can hear the sound through the speakers installed in the cab.
Operational "ECO" Guidance
The monitor panel provides operational advice to the operator to help improve machine efficiency and lower fuel consumption. The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption Logs.

Improved Attachment Control
The PC290LC-10 is capable of storing up to ten different attachments in the new monitor panel. The name of each attachment can be changed for better tool management. Hydraulic flow rates can be easily adjusted for one-way and two-way flow attachments.

Large High Resolution LCD Monitor Panel
A new large, user-friendly, high resolution LCD color monitor enables accurate and smooth work. Screen visibility and resolution are further improved compared to the previous LCD monitor panel. The switches and function keys are easy to operate and provide simple navigation through the monitor screens.

Data is displayed in 25 languages to support operators around the world.

Indicators

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Easy Access Coolers
The radiator and oil cooler are side-by-side modules which simplifies cleaning, removing, and installing. The swing out cooler design provides easier access to the cooling cores.

KDPF Regeneration Notification
The LCD color monitor panel provides the operator with the status of the KDPF regeneration, without interfering with daily operation. When the machine initiates active regeneration an icon will appear to notify the operator.

Battery Disconnect Switch
A standard battery disconnect switch allows a technician to disconnect the power supply and lock out before servicing the machine.

Manual Stationary Regeneration
Under most conditions, active regeneration will occur automatically with no effect on machine operation. In case the operator needs to disable active regeneration or initiate a manual stationary regeneration, this can be easily accomplished through the monitor panel. A soot level indicator is displayed to show how much soot is trapped in the KDPF.

Long Life Oils, Filters
High performance filters are used in the hydraulic circuit and engine. By increasing the oil and filter replacement intervals, maintenance costs can be significantly reduced.

Engine oil & Engine oil filter  every 500 hours
Hydraulic oil  every 5000 hours
Hydraulic oil filter  every 1000 hours
Extended Work Equipment Greasing Intervals
Special hard material is used for the work equipment bushings to lengthen the greasing intervals. All work equipment bushing lubrication intervals, except the arm tip and bucket linkage, are 500 hours, reducing maintenance costs.

Equipped with Eco-drain Valve
Minimizes ground contamination due to oil leakage when replacing the engine oil.

Equipment Management Monitoring System (EMMS)
The PC290LC-10 features an advanced diagnostic system that continuously monitors the machine’s vital systems. EMMS tracks maintenance items, provides advanced troubleshooting tools, reduces diagnostic times, and displays error codes.
Through continuous monitoring, the EMMS helps identify issues before they become worse and allows the operator to concentrate on the work at hand.

Abnormalities Display with Code
When an abnormality occurs an error code is displayed on the monitor. When an important code is displayed, a caution lamp blinks and warning buzzer sounds to alert the operator to take action.
The monitor also stores a record of abnormalities for more effective troubleshooting.

Advanced Monitoring System
The monitor provides advanced monitoring diagnostics to assist with troubleshooting and reduce costly downtime.

Maintenance Tracking
When the machine approaches or exceeds the oil and filter replacement interval, the monitor panel will display lights to inform the operator.
**ROPS Cab Design**
The PC290LC-10 is equipped with an integrated ROPS cab as standard equipment. The cab also meets OPG Top Guard Level 1 requirements.

**Guardrails**
Guardrails have been added on the upper structure of the machine. This provides additional convenience during engine service.

**Thermal and Fan Guards**
Thermal and fan guards are placed around high temperature parts of the engine and fan drive.

**Rear-view Monitoring System (standard)**
On the large LCD color monitor the operator can view the image from one camera that will display areas directly behind the machine. An optional 2-camera system is available.

**Seat Belt Caution Indicator**
A warning indicator on the monitor appears when the seat belt is not engaged.

**Lock Lever**
When the lock lever is placed in the lock position, all hydraulic controls (travel, swing, boom, arm, and bucket) are inoperable.

**Secondary Engine Shutdown Switch**
A new secondary switch has been added to shutdown the engine.

**Slip Resistant Plates**
Durable slip resistant plates maintain excellent foot traction.
KOMTRAX EQUIPMENT MONITORING

✓ WHAT
- KOMTRAX is Komatsu’s remote equipment monitoring and management system
- KOMTRAX continuously monitors and records machine health and operational data
- Information such as fuel consumption, utilization, and a detailed history aids in making repair or replacement decisions

✓ WHEN
- Know when your machines are running or idling and make decisions that will improve your fleet utilization
- Detailed movement records ensure you know when and where your equipment is moved
- Up to date records allow you to know when maintenance was done and help you plan for future maintenance needs

✓ WHERE
- KOMTRAX data can be accessed virtually anywhere through your computer, the web or your smart phone
- Automatic alerts keep fleet managers up to date on the latest machine notifications

✓ WHY
- Knowledge is power - make informed decisions to manage your fleet better
- Knowing your idle time and fuel consumption will help maximize your machine efficiency
- Take control of your equipment - any time, anywhere

Monthly Operational Analysis
Location/Hours/Working
Fleet Working Status

KOMTRAX®
For construction and compact equipment.

KOMTRAX Plus™
For production and mining class machines.
Komatsu CARE – Complimentary Scheduled Maintenance
- PM services for the earlier of 3 years / 2000 hours
- Performed by factory certified technicians
- Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high uptime and reliability
- Increases resale value and provides detailed maintenance records
- Extended PM services can be purchased beyond the complimentary period to provide additional peace of mind and maximize uptime

Komatsu CARE – Extended Coverage
- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect cash flow
- Purchasing extended coverage locks-in the cost of covered parts and labor for the coverage period and helps turn these into fixed costs

Komatsu Parts Support
- 24/7/365 to fulfill your parts needs
- 9 parts Distribution Centers strategically located across the U.S. and Canada
- Distributor network of more than 300 locations across U.S. and Canada to serve you
- Online part ordering through Komatsu eParts
- Remanufactured components with same-as-new warranties at a significant cost reduction

Komatsu Oil and Wear Analysis (KOWA)
- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain your equipment
- Maximize availability and performance
- Can identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life
**ENGINE**

Model: Komatsu SAA6D107E-2

Type: Water-cooled, 4-cycle, direct injection

Aspiration: Turbocharged, aftercooled, cooled EGR

Number of cylinders: 6

Bore: 107 mm

Stroke: 124 mm

Piston displacement: 6.69 ltr

Horsepower:

- SAE J1995: 213 HP
- ISO 9249 / SAE J1349: 147 HP

Rated rpm: 2650

Fan drive method for radiator cooling: Mechanical

Governor: All-speed control, electronic

*EPA Tier 4 Interim and EU stage 3B emissions certified

**HYDRAULICS**

Type: HydraulMind (Hydraulic Mechanical Intelligence New Design) system, closed-center system with load sensing valves and pressure compensated valves

Number of selectable working modes: 6

Main pump:

- Type: Variable displacement piston type
- Pumps for: Boom, arm, bucket, swing, and travel circuits
- Maximum flow: 479 ltr/min
- Supply for control circuit: Self-reducing valve

Hydraulic motors:

- Travel: 2 x axial piston motors with parking brake
- Swing: 1 x axial piston motor with swing holding brake

Relief valve setting:

- Implement circuits: 37.3 MPa
- Travel circuit: 37.3 MPa
- Swing circuit: 28.9 MPa
- Pilot circuit: 3.2 MPa

Hydraulic cylinders:

(Provide data on the number of hydraulic cylinders, bore size, stroke size, etc.)

**SWING SYSTEM**

Drive method: Hydrostatic

Swing reduction: Planetary gear

Swing circle lubrication: Grease-bathed

Service brake: Hydraulic lock

Holding brake/Swing lock: Mechanical disc brake

Swing speed: 10.5 rpm

Swing torque: 889 kg•m

**UNDERCARRIAGE**

Center frame: X-frame

Track frame: Box-section

Seal of track: Sealed track

Track adjuster: Hydraulic

Number of shoes (each side): 48

Number of carrier rollers (each side): 2

Number of track rollers (each side): 8

**COOLANT & LUBRICANT CAPACITY**

Fuel tank: 400 ltr

Coolant: 36 ltr

Engine: 23.1 ltr

Final drive, each side: 8.5 ltr

Swing drive: 7.2 ltr

Hydraulic tank: 132 ltr

Hydraulic system: 250 ltr

**OPERATING WEIGHT (APPROXIMATE)**

Operating weight includes 6150 mm 20'2" one-piece boom, 3200 mm 10'6" arm, SAE heaped 1.41 m³ / 1.85 yd³ bucket, rated capacity of lubricants, coolant, full fuel tank, operator, and standard equipment.

**DRIVES AND BRAKES**

Steering control: Two levers with pedals

Drive method: Hydrostatic

Maximum drawbar pull: 249 kN

Gradeability: 70%, 35°

Maximum travel speed:
- High: 5.5 km/h / 3.4 mph
- Mid: 4.1 km/h / 2.5 mph
- Low: 3.0 km/h / 1.9 mph

Service brake: Hydraulic lock

Parking brake: Mechanical disc brake

**Component Weights**

Arm including bucket cylinder and linkage:
- 3200 mm 10'6" arm assembly: 1432 kg
- 3500 mm 11'6" arm assembly: 1504 kg

One piece boom including arm cylinder:
- 6150 mm 20'2" boom assembly: 2448 kg

Bucket:
- 1.85 yd³: 432 kg

Counterweight:
- 5510 kg

**Triple-Grouser Shoes**

- 700 mm: 30570 kg
- 800 mm: 30950 kg
- 900 mm: 31141 kg
- 1000 mm: 31441 kg
- 1100 mm: 31741 kg
- 1200 mm: 32041 kg
- 1300 mm: 32341 kg
- 1400 mm: 32641 kg
- 1500 mm: 32941 kg
- 1600 mm: 33241 kg
- 1700 mm: 33541 kg
- 1800 mm: 33841 kg
- 1900 mm: 34141 kg
- 2000 mm: 34441 kg
- 2100 mm: 34741 kg
- 2200 mm: 35041 kg
- 2300 mm: 35341 kg
- 2400 mm: 35641 kg

**Operating Weight**

- 700 mm: 30570 kg
- 800 mm: 30950 kg
- 900 mm: 31141 kg
- 1000 mm: 31441 kg
- 1100 mm: 31741 kg
- 1200 mm: 32041 kg
- 1300 mm: 32341 kg
- 1400 mm: 32641 kg
- 1500 mm: 32941 kg
- 1600 mm: 33241 kg
- 1700 mm: 33541 kg
- 1800 mm: 33841 kg
- 1900 mm: 34141 kg
- 2000 mm: 34441 kg
- 2100 mm: 34741 kg
- 2200 mm: 35041 kg
- 2300 mm: 35341 kg
- 2400 mm: 35641 kg

**Ground Pressure**

- 700 mm: 0.50 kg/cm²
- 800 mm: 0.45 kg/cm²
- 900 mm: 0.42 kg/cm²
- 1000 mm: 0.40 kg/cm²
- 1100 mm: 0.38 kg/cm²
- 1200 mm: 0.36 kg/cm²
- 1300 mm: 0.34 kg/cm²
- 1400 mm: 0.32 kg/cm²
- 1500 mm: 0.30 kg/cm²
- 1600 mm: 0.28 kg/cm²
- 1700 mm: 0.26 kg/cm²
- 1800 mm: 0.24 kg/cm²
- 1900 mm: 0.22 kg/cm²
- 2000 mm: 0.20 kg/cm²
- 2100 mm: 0.18 kg/cm²
- 2200 mm: 0.16 kg/cm²
- 2300 mm: 0.14 kg/cm²
- 2400 mm: 0.12 kg/cm²
**SPECIFICATIONS**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>Arm Length</th>
<th>3200 mm</th>
<th>10’6”</th>
<th>3500 mm</th>
<th>11’6”</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Overall length</td>
<td>10185 mm</td>
<td>33’5”</td>
<td>10195 mm</td>
<td>33’5”</td>
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<tr>
<td>B Length on ground (transport)</td>
<td>5625 mm</td>
<td>18’5”</td>
<td>5350 mm</td>
<td>17’7”</td>
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<td>C Overall height (to top of boom)**</td>
<td>3340 mm</td>
<td>11’0”</td>
<td>3375 mm</td>
<td>11’1”</td>
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<tr>
<td>D Overall width</td>
<td>3390 mm</td>
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<tr>
<td>E Overall height (to top of cab)**</td>
<td>3180 mm</td>
<td>10’5”</td>
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<tr>
<td>F Overall height (to top of handrail)**</td>
<td>3275 mm</td>
<td>10’9”</td>
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<tr>
<td>G Ground clearance, counterweight</td>
<td>1215 mm</td>
<td>4’0”</td>
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<tr>
<td>H Ground clearance, minimum</td>
<td>498 mm</td>
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<td>I Tail swing radius</td>
<td>2940 mm</td>
<td>9’8”</td>
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<td>J Track length on ground</td>
<td>4030 mm</td>
<td>13’3”</td>
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<tr>
<td>K Track length</td>
<td>4955 mm</td>
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<td>L Track gauge</td>
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<td>8’6”</td>
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<tr>
<td>M Width of crawler</td>
<td>3390 mm</td>
<td>11’1”</td>
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<tr>
<td>N Shoe width</td>
<td>800 mm</td>
<td>31.5”</td>
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<tr>
<td>O Grouser height</td>
<td>36 mm</td>
<td>1.4”</td>
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<tr>
<td>P Machine cab height</td>
<td>2380 mm</td>
<td>7’10”</td>
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<tr>
<td>Q Machine cab width **</td>
<td>2850 mm</td>
<td>9’4”</td>
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<tr>
<td>R Distance, swing center to rear end</td>
<td>2905 mm</td>
<td>9’6”</td>
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</table>

* : Including grouser height ** : Including handrail

**BACKHOE BUCKET, ARM AND BOOM COMBINATION**

<table>
<thead>
<tr>
<th>Bucket Type</th>
<th>Bucket</th>
<th>6.15 m (20’2”) Boom</th>
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<tbody>
<tr>
<td></td>
<td>Capacity</td>
<td>Width</td>
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<td>Komatsu TL</td>
<td>0.58 m³</td>
<td>0.76 yd³</td>
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<td>0.78 m³</td>
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<td>1.63 m³</td>
<td>2.13 yd³</td>
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</tbody>
</table>

V - Used with material weights up to 3,500 lb/yd³
X - Used with material weights up to 2,500 lb/yd³
Z - Not useable
W - Used with material weights up to 3,000 lb/yd³
Y - Used with material weights up to 2,000 lb/yd³
### Arm Length

<table>
<thead>
<tr>
<th></th>
<th>3200 mm</th>
<th>10'6&quot;</th>
<th>3500 mm</th>
<th>11'6&quot;</th>
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<tbody>
<tr>
<td>A</td>
<td>Max. digging height</td>
<td>10345 mm</td>
<td>33'11&quot;</td>
<td>10355 mm</td>
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<tr>
<td>B</td>
<td>Max. dumping height</td>
<td>7370 mm</td>
<td>24'2&quot;</td>
<td>7435 mm</td>
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<tr>
<td>C</td>
<td>Max. digging depth</td>
<td>6915 mm</td>
<td>22'8&quot;</td>
<td>7220 mm</td>
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<tr>
<td>D</td>
<td>Max. vertical wall digging depth</td>
<td>6135 mm</td>
<td>20'2&quot;</td>
<td>6440 mm</td>
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<td>E</td>
<td>Max. digging depth for 8' level bottom</td>
<td>6755 mm</td>
<td>22'2&quot;</td>
<td>7070 mm</td>
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<td>F</td>
<td>Max. digging reach</td>
<td>10635 mm</td>
<td>34'11&quot;</td>
<td>10890 mm</td>
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<td>G</td>
<td>Max. digging reach at ground level</td>
<td>10455 mm</td>
<td>34'4&quot;</td>
<td>10715 mm</td>
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<td>H</td>
<td>Min. swing radius</td>
<td>3680 mm</td>
<td>12'1&quot;</td>
<td>3740 mm</td>
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### Bucket digging force at power max.

<table>
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<tr>
<th></th>
<th>SAE rating</th>
<th>ISO rating</th>
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<tbody>
<tr>
<td></td>
<td>Bucket digging force at power max.</td>
<td>176 kN</td>
</tr>
<tr>
<td></td>
<td>Arm crowd force at power max.</td>
<td>129 kN</td>
</tr>
</tbody>
</table>

176 kN = 17900 kg / 39,460 lb
129 kN = 13140 kg / 28,969 lb
198 kN = 20200 kg / 44,530 lb
134 kN = 13622 kg / 30,032 lb

176 kN = 17900 kg / 39,460 lb
129 kN = 13140 kg / 28,969 lb
198 kN = 20200 kg / 44,530 lb
134 kN = 13622 kg / 30,032 lb
A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
C: Rating at maximum reach

**Conditions:**  
- Boom length: 6150 mm 20' 2"  
- Bucket: None  
- Lifting mode: On

**Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.**

---

### Lift Capacities

**Arm:** 3200 mm 10'6"  
**Shoes:** 800 mm 31.5"  
**Unit:** kg lb

<table>
<thead>
<tr>
<th>Arm</th>
<th>3.0 m 10'</th>
<th>4.6 m 15'</th>
<th>6.1 m 20'</th>
<th>7.6 m 25'</th>
<th>9.1 m 30'</th>
<th>MAX</th>
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<tbody>
<tr>
<td>B</td>
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A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
Cs: Rating over side  
Θ: Rating at maximum reach

Conditions:
- Boom length: 6150 mm 20' 2"
- Bucket: None
- Lifting mode: On

A: Reach from swing center  
B: Bucket hook height  
C: Lifting capacity  
Cf: Rating over front  
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Θ: Rating at maximum reach

Conditions:
- Boom length: 6150 mm 20' 2"
- Bucket: None
- Lifting mode: On

*Load is limited by hydraulic capacity rather than tipping. Ratings are based on ISO standard No. 10567. Rated loads do not exceed 87% of hydraulic lift capacity or 75% of tipping load.

Arm: 3500 mm 11'6"  
Shoes: 800 mm 31.5"  
Unit: kg lb

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<tr>
<th>Arm</th>
<th>3.0 m 10'</th>
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Arm: 3500 mm 11'6"  
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### STANDARD EQUIPMENT

- Alternator, 60 Ampere, 24V
- AM/FM radio
- Automatic engine warm-up system
- Automatic air conditioner/heater
- Auxiliary input (3.5 mm jack)
- Batteries, large capacity
- Battery disconnect switch
- Boom and arm holding valves
- Converter, (2) x 12V
- Counterweight, 5510 kg 12,148 lb
- Dry type air cleaner, double element
- Electric horn
- EMMS monitoring system
- Engine, Komatsu SAA6D107E-2
- Engine overheat prevention system
- Extended work equipment grease interval
- Fan guard structure
- Fuel system pre-cleaner 10 micron
- High back air suspension seat, with heat
- Hydraulic track adjusters
- KOMTRAX® Level 4.0
- Large LCD color monitor, high resolution
- Lock lever
- Mirrors, (LH and RH)
- Operator Protective Top Guard (OPG), Level 1
- Pattern change valve (ISO to BH control)
- Power maximizing system
- PPC hydraulic control system
- Pump/engine room partition cover
- Radiator and oil cooler dustproof net
- Rear reflectors
- Rearview monitoring system (1 camera)
- Revolving frame deck guard
- Revolving frame undercovers
- ROPS cab
- Seat belt, retractable, 76 mm 3"
- Seat belt indicator
- Secondary engine shutoff switch
- Service valve
- Shoes, triple grouser, 800 mm 31.5"
- Skylight
- Slip resistant foot plates
- Starter motor, 5.5kW/24V x 1
- Suction fan
- Thermal and fan guards
- Track frame undercover
- Travel alarm
- Working lights, 2 (boom and RH front)
- Working mode selection system

### OPTIONAL EQUIPMENT

- (1) additional rearview camera
- Arms
  - 3200 mm 10’6” arm assembly
  - 3200 mm 10’6” arm assembly with piping
  - 3500 mm 11’6” arm assembly
- Booms
  - 6150 mm 20’2” boom assembly
  - 6150 mm 20’2” boom assembly with piping
- Cab guards
  - Full front guard, OPG Level 1
  - Full front guard, OPG Level 2
  - Bolt-on top guard, OPG Level 2
  - Lower front window guard
- High pressure in-line hydraulic filters
- Hydraulic control unit, 1 actuator
- Rain visor
- Revolving frame undercovers, heavy duty
- Shoes, triple grouser, 850 mm 33.5"
- Sun visor
- Straight travel pedal
- Track roller guards, full length
- Working light, front, one additional
- Shoes, triple grouser, 850 mm 33.5"

### ATTACHMENT OPTIONS

- Cab air pre-cleaner
- Grade control systems
- Hydraulic couplers
- Hydraulic kits, field installed
- Super long fronts
- PSM thumbs
- Rockland thumbs
- Vandalism protection guards with storage box

For a complete list of available attachments, please contact your local Komatsu distributor.