WHEEL LOADER

WA270

Tier 4 Final Engine

Photos may include optional equipment.

NET HORSEPOWER
149 HP @ 2000 rpm
111 kW @ 2000 rpm

OPERATING WEIGHT
28,208 – 29,079 lb
12795 – 13190 kg

BUCKET CAPACITY
2.5 – 3.5 yd³
1.9 – 2.7 m³
HIGH PRODUCTION WITH LOW FUEL CONSUMPTION

Proven, Fourth Generation Hydrostatic Transmission:
- Quick Acceleration
- Dynamic Braking
- Variable Speed Traction Control
- Creeping Mode

Komatsu SmartLoader Logic helps reduce fuel consumption with no decrease in production.

A powerful Komatsu SAA6D107E-3 engine provides a net output of 111 kW 149 HP with up to 3% improved fuel consumption. This engine is EPA Tier 4 Final emissions certified.

Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under all speed and load conditions. This Tier 4 Final version has improved performance.

Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx while providing automatic regeneration that does not interfere with daily operation.

Energy saving guidance:
- Six operator guiding messages
- Enhanced ecology gauge

Komatsu auto idle shutdown helps reduce idle time and operating costs.

Remote boom positioner can set kickout.

Versatile Parallel Z-bar (PZ) linkage for parallel lift.

Variable displacement piston pumps with Closed-Center Load Sensing System (CLSS) help reduce fuel consumption.

The KOMTRAX® telematics system is standard on Komatsu equipment with no subscription fees throughout the life of the machine. Using wireless technology, KOMTRAX® transmits valuable information such as location, utilization, and maintenance records to a PC or smartphone app. Custom machine reports are provided for identifying machine efficiency and operating trends. KOMTRAX® also provides advanced machine troubleshooting capabilities by continuously monitoring machine health.

Operator identification system tracks machine operation for up to 100 operators.

Variable Geometry Turbocharger (VGT) is hydraulically actuated to provide optimum air flow under all speed and load conditions. This Tier 4 Final version has improved performance.

Ample cooling capacity
- Auto-reversing fan is standard
- Wider core coolers

Fluid neutral or better
Combined fuel and DEF consumption is equal to or less than the WA270-7 fuel consumption.

Spacious cab provides the operator with improved comfort and visibility.

New high resolution monitor panel:
- Enhanced and intuitive on-board diagnostics
- Integrated with KOMTRAX Level 5
- Integrated with Komatsu Tier 4 Final technology

Rearview monitoring system is standard.

New high capacity air suspension seat with heat is standard.

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KOMATSU NEW ENGINE TECHNOLOGIES

New Tier 4 Final Engine
The Komatsu SAA6D107E-3 engine is EPA Tier 4 Final emissions certified, reduces fuel consumption, and provides exceptional performance. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces nitrogen oxides (NOx) by more than 80% compared to Tier 4 interim levels.

Technologies Applied to New Engine

Heavy-Duty After Treatment System
This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the precise amount of Diesel Exhaust Fluid (DEF) to break down NOx into non-toxic water vapor (H$_2$O) and nitrogen gas (N$_2$).

Advanced Electronic Control System
An improved electronic control system more effectively manages engine parameters such as airflow rate, EGR gas flow rate, fuel injection parameters, and after treatment function. The control system also provides enhanced diagnostics through the monitor panel. Additionally, managing information via KOMTRAX helps customers track required maintenance.

Variable Geometry Turbocharger (VGT) system
The VGT features proven Komatsu-designed hydraulic technology for robust and accurate control under all speed and load conditions for optimal engine performance. The VGT also provides precise exhaust temperature control for efficient KDPF regeneration. The Tier 4 Final version has a smaller impeller for improved performance.

Heavy-Duty Cooled Exhaust Gas Recirculation (EGR) System
The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow is lower for Tier 4 Final with the addition of SCR technology. The system dramatically reduces NOx, while helping cut fuel consumption below Tier 4 Interim levels.
### Heavy-Duty High-Pressure Common Rail (HPCR) fuel injection system
The system is specifically designed to achieve the optimal injection of fuel for near-complete combustion, which helps reduce Particulate Matter (PM) emissions.

### Komatsu SmartLoader Logic
The WA270-8 features Komatsu SmartLoader Logic, which controls engine torque to match machine demands. For example, engine torque needs are higher for digging in V-shape loading, but lower when driving with an empty bucket. This system optimizes the engine torque for all applications to minimize fuel consumption. Komatsu SmartLoader Logic functions automatically and doesn't interfere with operation, saving fuel without decreasing production.

### Hydrostatic Transmission (HST)
The HST provides quick travel response and aggressive drive into the pile. Full auto-shifting eliminates any gear shifting and kick-down operation to allow the operator to concentrate on the digging and loading. The HST also acts as a dynamic brake to slow the loader. This dramatically extends the life of the wet disc brakes.

### Variable Traction Control System
The variable traction control system is designed to adjust the traction control for each working condition. S-mode reduces tire spin in slippery or snowy conditions. Auto-mode automatically optimizes the tractive effort for various working conditions. Max traction provides the full, 100%, tractive effort.

### Creep Mode
Creep mode limits the travel speed in 1st speed range, while still allowing for full hydraulic flow.

### Closed-Center Load Sensing System (CLSS)
The one-pump, two-motor system utilizes a Closed-Center Load Sensing System (CLSS) pump. This system minimizes hydraulic loss for better fuel economy by delivering only as much flow as the job requires.

### Komatsu Auto Idle Shutdown
In order to reduce unwanted idle time, Komatsu offers Komatsu auto idle shutdown. This function will shut the engine off and apply the parking brake and hydraulic lock after a preset idle time limit. This time limit can be set by the operator or service technician and may range from three to 60 minutes. It can also be deactivated by the operator.
New Operator Seat
A new standard, heated, air-suspension seat provides enhanced support on rough roads and dampens machine vibrations, providing a more comfortable ride for the operator. The angle of the armrest is fully adjustable for optimum operator comfort. A secondary F-N-R switch is incorporated into the standard multi-function mono lever.

Tiltable / Telescopic Steering Wheel
The operator can tilt and telescope the steering wheel to allow maximum comfort and control. The two-spoke steering wheel allows maximum visibility of the monitor panel and the forward work environment.

Low Noise Design
Operator’s ear noise level: 68 dB(A)
Dynamic noise level (outside): 104 dB(A)

The large ROPS/FOPS cab is mounted with Komatsu’s unique viscous mounts. The low-noise engine, hydraulically-driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is improved to provide a quiet, low-vibration, comfortable operating environment.

Increased Cab Storage Area
The WA270-8 cab features a storage box on each side of the cab to allow the operator to store items such as a beverage or lunch.
**Engine Shutdown Secondary Switch**

The engine stop switch enables machine shutdown when accessing the key switch is not possible.

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**Standard Rear View Monitoring System**

The dedicated, full-color monitor on the right side of the cab provides the operator with a rear view from the machine. This monitor can be always on or only on when the loader shifts into reverse. Guidelines provide the operator with visual cues for the width of the loader.

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**Auxiliary Input (MP3 Jack) 12 V Outlets**

An Aux input for audio devices is standard as well as two 12 volt outlets. These are all located on the rear wall of the cab.
WORKING ENVIRONMENT

Easy Entry and Exit
The WA270-8 has an inclined ladder with wide steps and well-placed hand holds to ease entry and exit from the cab. The door latch can be reached from ground level to ease opening and closing the door.

Electronically Controlled Suspension System
The standard Electronically Controlled Suspension System or ride control system uses an accumulator, which absorbs some of the shock in the boom arm, giving the operator a much smoother ride. This reduces operator fatigue and reduces material spillage during load and carry operations. Ride control is speed sensitive and the activation speed can be adjusted in the monitor panel.

Multi-Function Mono Lever
The multi-function mono lever with EPC control for 3rd spool is standard. It includes a forward-neutral-reverse switch for quick and easy travel. Third spool attachments can be set to continual or proportional control via the monitor panel. This allows the operator to control the boom, bucket and attachment, all with a single lever.

Remote Boom Positioner
The operator can set the upper boom limit from the cab.

Attachment Selector Switch
Coupler equipped machines, which use buckets and forks, require a different flat level setting when switching between attachments. The attachment selector switch found in coupler equipped machines tells the loader which flat level to use.
New High Resolution LCD Monitor Panel

The new seven inch color LCD monitor panel displays operational information, ecology guidance and maintenance records. Information such as traction mode, coolant temp, oil and fuel levels are easy to read and help keep the operator informed of the machine's settings and conditions.

**Machine monitor**

1. LCD unit
2. LED unit
3. Engine tachometer
4. Speedometer
5. Ecology gauge
6. Air conditioner display
7. Traction level

**Switch panel**

1. Air conditioner switches / Numeral key pad
2. Function switches

**Visual user menu**

Pressing the menu button on the switch panel accesses the user-menu screen. The menus are grouped by function, with easy-to-understand, intuitive icons for easier machine operation.

**Operator identification function**

An operator identification (ID) code can be set for each operator, and used to manage operation information of individual machines through KOMTRAX. Data sent from KOMTRAX can be used to analyze operation status by operator job, as well as by machine.

**Monitor Panel with troubleshooting function minimizes downtime**

Various meters, gauges and warning functions are centrally arranged on the monitor panel. The monitor simplifies start-up inspection and warns the operator with a lamp and buzzer if any abnormalities occur. Warnings are indicated in four levels, which the operator must acknowledge and clear. Replacement times for oil and filters are also indicated.
MAINTENANCE FEATURES

Side-opening Gull-wing Engine Doors
The large, gull-wing-type engine doors require minimal effort to open and close, thanks to gas assisted struts. The doors make access and daily maintenance easy. Large steps on each side of the frame also enhance accessibility.

Auto Reversing Fan
The engine cooling fan is hydraulically driven. It can be set to reverse automatically during operation. Fan reverse mode and timing can be controlled through the monitor.

Swing-Out Type Cooling Fan and Wide Core Radiator
The cooling fan swings out for easier cleaning. The coolers feature wide-spaced cooling fins to reduce clogging.

DEF Tank
The DEF tank is easily accessed behind the RH side ladder. An external sight gauge helps prevent overflow and spillage while refilling.

Battery Disconnect Switch
The battery disconnect switch is located on the right side of the machine. This can be used to disconnect power when performing service work on the machine.
Engine Compartment
The WA270-8 engine compartment is designed for easy serviceability. Placement of maintenance items, such as filters, dipsticks, and oil-fill locations are laid out for easy-to-reach, ground-level access.

Cab Air Filter
The inside and outside air filters can be replaced easily without the need for tools. The outside filter is located behind a lockable door for security.

Rear Full Fenders (Option)
The WA270-8 has a new rear fender option. The rear fenders open upward and use gas-assist struts, which require low lift force. The fenders swing up with the gull-wing doors to give the technician easy access to the engine compartment. Mud flaps are also included on the rear fenders.

Maintenance Information

"Maintenance time caution lamp" display
When the time before required maintenance dips below 30 hours*, the maintenance-time monitor appears. Pressing the menu switch displays the maintenance screen.

* : The setting can be changed within the range between 10 and 200 hours.

Supports DEF level and refill timing
The DEF level gauge is displayed continuously on the monitor panel. In addition, when the refill timing is reached, the DEF-low-level icon appears to alert the operator.
KOMATSU CARE

Program Includes:
* The WA270-8 comes standard with complimentary factory scheduled maintenance for the first 3 Years or 2,000 Hours, whichever comes first.

Planned Maintenance Intervals at:
500/1000/1500/2000 hour intervals. (250 hr. initial interval for some products) Complimentary Maintenance Interval includes:
Replacement of Oils & Fluid Filters with genuine Komatsu Parts, 50-Point inspection, Komatsu Oil & Wear Analysis Sampling (KOWA) / Travel & Mileage (distance set by distributor; additional charges may apply)

Benefits of Using Komatsu CARE
- Assurance of Proper Maintenance with OEM Parts & Service
- Increased Uptime & Efficiency
- Factory Certified Technicians Performing Work
- Cost of Ownership Savings
- Transferable Upon Resale

Complimentary KDPF Exchanges
The WA270-8 comes standard with 2 Complimentary KDPF Exchange units for the first 5 Years or 9000 hours whichever comes first. The suggested KDPF Exchange unit service intervals are 4500 hours & 9000 hours during the first 5 Years. End user must have authorized Komatsu distributor perform the removal & installation of the KDPF.

Complimentary SCR Maintenance
The WA270-8 also includes 2 factory recommended services of the Selective Catalytic Reduction (SCR) Diesel Exhaust Fluid (DEF) system during the first 5 Years or 9000 hours whichever comes first. The service includes factory recommended DEF tank flush & strainer cleaning at the suggested service intervals of 4500 hours & 9000 hours.

Komatsu CARE® – Extended Coverage
- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that affect 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

* Certain exclusions and limitations apply. Refer to the customer certificate for complete program details and eligibility. Komatsu® and Komatsu Care® are registered trademarks of Komatsu Ltd. Copyright 2019 Komatsu America Corp.
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 lowering owning and operating cost

✓ 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 is due 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

✓ WHO
- KOMTRAX is standard equipment on all Komatsu construction products

KOMTRAX®
For construction and compact equipment.

KOMTRAX Plus®
For production and mining class machines.

For production and mining class machines.
**SPECIFICATIONS**

**ENGINE**

Model: Komatsu SAA6D107E-3
Type: Water-cooled, 4-cycle
Aspiration: Variable geometry turbo-charged, after-cooled, cooled EGR
Number of cylinders: 6
Bore: 107 mm x 4.21"
Stroke: 124 mm x 4.88"
Piston displacement: 6.69 ltr
Governor: All-speed, electronic

Horsepower:
- SAE J1995: Gross 115 kW, 153 HP
- ISO 9249 / SAE J1349: Net 111 kW, 149 HP

Rated rpm: 2000 rpm
Max power - ISO 14396: 111 kW @ 1650 rpm

Fan drive method for radiator cooling: Direct injection hydraulic

**HYDRAULIC SYSTEM**

Piston pump, in common with loader control

Capacity . . . . 150 l/min, 39.6 U.S. gal/min at rated rpm

Hydraulic cylinder:
- Double-acting, piston type
- Number of cylinders: 2
- Bore x stroke: 70 mm x 453 mm

**TRANSMISSION**

Transmission: Hydrostatic, 1 pump, 2 motors with speed range select

**SERVICE REFILL CAPACITIES**

Cooling system: 33.3 ltr, 8.8 U.S. gal
Fuel tank: 186 ltr, 49.1 U.S. gal
Engine: 23 ltr, 6.1 U.S. gal
Hydraulic system: 80 ltr, 21.1 U.S. gal
Axle front: 18.5 ltr, 4.9 U.S. gal
Axle rear: 18.0 ltr, 4.8 U.S. gal
Transfer case: 7 ltr, 1.8 U.S. gal
DEF tank: 14 ltr, 3.7 U.S. gal

**AXLES AND FINAL DRIVES**

Drive system: Four-wheel drive
Front: Fixed, semi-floating, 24" total oscillation
Rear: Center-pin support, semi-floating
Reduction gear: Spiral bevel gear
Differential gear: Torque proportioning
Final reduction gear: Planetary gear, single reduction

**BRAKES**

Service brakes: Hydraulically actuated, wet disc brakes actuate on four wheels
Parking brake: Wet, multi-disc brake on transfer output shaft
Secondary brake: Parking brake is commonly used

**STEERING SYSTEM**

Type: Articulated type, fully-hydraulic power steering
Steering angle: +38° each direction (40° to max end stop)
Minimum turning radius: 5175 mm

Measured with 20.5-R25 tires

*EPA Tier 4 Final emissions certified

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**OPTIONAL EQUIPMENT**

- Cab

**DIMENSIONS**

- Cabin height: 2.5
- Wheelbase: 3.8
- Track: 2.3
- Height: 2.7
- Track: 3.5

**WEIGHT (APPROXIMATE)**

- Main frame: 115
- Axle: 100
- 95%

**BUCKET SELECTION GUIDE**

- Pin-on Bucket
- Quick Coupler Bucket
- High Lift Pin-on Bucket

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**TRANSMISSION**

Control positions:
- Boom: Raise, hold, lower, and float
- Bucket: Tilt-back, hold, and dump

**HYDRAULIC CYCLE TIME**

- (rated load in bucket)
  - Raise: 6.0 sec
  - Dump: 2.0 sec
  - Lower (Empty): 3.2 sec
**DIMENSIONS**

Measured with 20.5-R25(L3) Tires, ROPS/FOPS cab

<table>
<thead>
<tr>
<th><strong>Tread</strong></th>
<th><strong>Width over tires</strong></th>
<th><strong>Wheelbase</strong></th>
<th><strong>Hinge pin height, Standard Boom</strong></th>
<th><strong>Hinge pin height, High Lift Boom</strong></th>
<th><strong>Ground clearance</strong></th>
<th><strong>Hitch height</strong></th>
<th><strong>Operating height, top of the stack</strong></th>
<th><strong>Overall height, ROPS cab</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>1930 mm</td>
<td>2505 mm</td>
<td>2900 mm</td>
<td>3965 mm</td>
<td>4390 mm</td>
<td>465 mm</td>
<td>950 mm</td>
<td>3050 mm</td>
<td>3200 mm</td>
</tr>
<tr>
<td><strong>6’4”</strong></td>
<td><strong>8’3”</strong></td>
<td><strong>9’6”</strong></td>
<td><strong>13”</strong></td>
<td><strong>14’5”</strong></td>
<td><strong>1’6”</strong></td>
<td><strong>3’1”</strong></td>
<td><strong>10’0”</strong></td>
<td><strong>10’6”</strong></td>
</tr>
</tbody>
</table>

**BUCKET**

<table>
<thead>
<tr>
<th><strong>General Purpose Bucket w/ Pin On</strong></th>
<th><strong>Excavating Bucket w/ Pin On</strong></th>
<th><strong>Light Material Bucket w/ Quick Coupler</strong></th>
<th><strong>Excavating Bucket w/ Pin On</strong></th>
<th><strong>General Purpose Bucket w/ Quick Coupler</strong></th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th><strong>Bucket capacity:</strong></th>
<th><strong>heaped</strong></th>
<th><strong>struck</strong></th>
<th><strong>bucket level</strong></th>
<th><strong>Fully raised</strong></th>
<th><strong>bucket level</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>2.3 m³</strong></td>
<td>2.1 m³</td>
<td>2.7 m³</td>
<td>2.1 m³</td>
<td>2.7 m³</td>
<td></td>
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<tr>
<td><strong>2.7 m³</strong></td>
<td>2.1 m³</td>
<td>3.5 m³</td>
<td>2.1 m³</td>
<td>3.5 m³</td>
<td></td>
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<tr>
<td><strong>2.7 m³</strong></td>
<td>2.1 m³</td>
<td>3.5 m³</td>
<td>2.1 m³</td>
<td>3.5 m³</td>
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<tr>
<td><strong>2.7 m³</strong></td>
<td>2.1 m³</td>
<td>3.5 m³</td>
<td>2.1 m³</td>
<td>3.5 m³</td>
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<table>
<thead>
<tr>
<th><strong>Bucket width</strong></th>
<th><strong>2550 mm</strong></th>
<th><strong>2550 mm</strong></th>
<th><strong>2550 mm</strong></th>
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<tr>
<td><strong>8’4”</strong></td>
<td><strong>8’4”</strong></td>
<td><strong>8’4”</strong></td>
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<td><strong>8’4”</strong></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Bucket weight</strong></th>
<th><strong>970 kg</strong></th>
<th><strong>885 kg</strong></th>
<th><strong>1030 kg</strong></th>
<th><strong>1075 kg</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>977 lb</strong></td>
<td><strong>865 lb</strong></td>
<td><strong>1075 lb</strong></td>
<td><strong>977 lb</strong></td>
<td><strong>1075 lb</strong></td>
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<table>
<thead>
<tr>
<th><strong>Reach at max. height and 45° dump angle</strong></th>
<th><strong>945 mm</strong></th>
<th><strong>1040 mm</strong></th>
<th><strong>900 mm</strong></th>
<th><strong>890 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>3’1”</strong></td>
<td><strong>3’4”</strong></td>
<td><strong>3’2”</strong></td>
<td><strong>3’1”</strong></td>
<td><strong>3’2”</strong></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Reach with arm horizontal and bucket level</strong></th>
<th><strong>2370 mm</strong></th>
<th><strong>2255 mm</strong></th>
<th><strong>2505 mm</strong></th>
<th><strong>2450 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>7’9”</strong></td>
<td><strong>7’5”</strong></td>
<td><strong>8’3”</strong></td>
<td><strong>8’0”</strong></td>
<td><strong>8’3”</strong></td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th><strong>Operating height (fully raised)</strong></th>
<th><strong>5285 mm</strong></th>
<th><strong>5150 mm</strong></th>
<th><strong>5345 mm</strong></th>
<th><strong>5360 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>17’4”</strong></td>
<td><strong>16’11”</strong></td>
<td><strong>17’0”</strong></td>
<td><strong>17’0”</strong></td>
<td><strong>17’0”</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Overall length (bucket on ground)</strong></th>
<th><strong>7360 mm</strong></th>
<th><strong>7310 mm</strong></th>
<th><strong>7475 mm</strong></th>
<th><strong>7465 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>24’2”</strong></td>
<td><strong>24’0”</strong></td>
<td><strong>24’5”</strong></td>
<td><strong>24’6”</strong></td>
<td><strong>25’9”</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Loader clearance circle (bucket at carry, outside corner of bucket)</strong></th>
<th><strong>12050 mm</strong></th>
<th><strong>11980 mm</strong></th>
<th><strong>12130 mm</strong></th>
<th><strong>12220 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>39°</strong></td>
<td><strong>40°</strong></td>
<td><strong>40°</strong></td>
<td><strong>40°</strong></td>
<td><strong>40°</strong></td>
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<table>
<thead>
<tr>
<th><strong>Digging depth:</strong></th>
<th><strong>130 mm</strong></th>
<th><strong>130 mm</strong></th>
<th><strong>110 mm</strong></th>
<th><strong>235 mm</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>5”</strong></td>
<td><strong>5”</strong></td>
<td><strong>5”</strong></td>
<td><strong>4.3”</strong></td>
<td><strong>9”</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Static tipping load: straight</strong></th>
<th><strong>10330 kg</strong></th>
<th><strong>10420 kg</strong></th>
<th><strong>10235 kg</strong></th>
<th><strong>9765 kg</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>10’0”</strong></td>
<td><strong>10’0”</strong></td>
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<table>
<thead>
<tr>
<th><strong>Breakout force</strong></th>
<th><strong>131 kN</strong></th>
<th><strong>147 kN</strong></th>
<th><strong>116 kN</strong></th>
<th><strong>111 kN</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1375 kgf</strong></td>
<td><strong>14965 kgf</strong></td>
<td><strong>11055 kgf</strong></td>
<td><strong>11370 kgf</strong></td>
<td><strong>15700 kgf</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Operating weight</strong></th>
<th><strong>12800 kg</strong></th>
<th><strong>12795 kg</strong></th>
<th><strong>12940 kg</strong></th>
<th><strong>13190 kg</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>12840 lb</strong></td>
<td><strong>12840 lb</strong></td>
<td><strong>12840 lb</strong></td>
<td><strong>12840 lb</strong></td>
<td><strong>12840 lb</strong></td>
</tr>
</tbody>
</table>

**FORK**

<table>
<thead>
<tr>
<th><strong>Fork tine length</strong></th>
<th><strong>1220 mm</strong></th>
<th><strong>40°</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Ground to top of tine at maximum lift</strong></td>
<td><strong>3825 mm</strong></td>
<td><strong>12°7”</strong></td>
</tr>
<tr>
<td><strong>Reach at maximum lift</strong></td>
<td><strong>810 mm</strong></td>
<td><strong>2’8”</strong></td>
</tr>
<tr>
<td><strong>Ground to top of tine - boom and tine level</strong></td>
<td><strong>1840 mm</strong></td>
<td><strong>6’0”</strong></td>
</tr>
<tr>
<td><strong>Reach - boom level:</strong></td>
<td><strong>16,138 lb</strong></td>
<td><strong>14,121 lb</strong></td>
</tr>
<tr>
<td><strong>Reach - tine level on ground</strong></td>
<td><strong>10355 lb</strong></td>
<td><strong>9650 lb</strong></td>
</tr>
<tr>
<td><strong>Reach - tine level on ground</strong></td>
<td><strong>115°</strong></td>
<td><strong>115°</strong></td>
</tr>
<tr>
<td><strong>Reach - boom level</strong></td>
<td><strong>9910 kg</strong></td>
<td><strong>1732 lb</strong></td>
</tr>
<tr>
<td><strong>Reach - tine level on ground</strong></td>
<td><strong>3200 mm</strong></td>
<td><strong>10’6”</strong></td>
</tr>
</tbody>
</table>

**Fork With Quick Coupler**

<table>
<thead>
<tr>
<th><strong>O Fork tine length</strong></th>
<th><strong>1220 mm</strong></th>
<th><strong>40°</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>P Ground to top of tine at maximum lift</strong></td>
<td><strong>3825 mm</strong></td>
<td><strong>12°7”</strong></td>
</tr>
<tr>
<td><strong>Q Reach at maximum lift</strong></td>
<td><strong>810 mm</strong></td>
<td><strong>2’8”</strong></td>
</tr>
<tr>
<td><strong>R Ground to top of tine - boom and tine level</strong></td>
<td><strong>1840 mm</strong></td>
<td><strong>6’0”</strong></td>
</tr>
<tr>
<td><strong>Reach - boom level</strong></td>
<td><strong>16,138 lb</strong></td>
<td><strong>14,121 lb</strong></td>
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<td><strong>10355 lb</strong></td>
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</tr>
<tr>
<td><strong>Reach - tine level on ground</strong></td>
<td><strong>115°</strong></td>
<td><strong>115°</strong></td>
</tr>
<tr>
<td><strong>Reach - boom level</strong></td>
<td><strong>9910 kg</strong></td>
<td><strong>1732 lb</strong></td>
</tr>
<tr>
<td><strong>Reach - tine level on ground</strong></td>
<td><strong>3200 mm</strong></td>
<td><strong>10’6”</strong></td>
</tr>
</tbody>
</table>

*At the end of tooth or B.O.C.E.

All dimensions, weights, and performance values based on ISO 7131, ISO 14397-1 and ISO 7546 standards. Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, ROPS cab and operator. Machine stability and operating weight affected by tire size and attachments.
WEIGHT CHANGES

<table>
<thead>
<tr>
<th>Tires or attachments</th>
<th>Change in operating weight</th>
<th>Change in tipping load</th>
<th>Width over tires</th>
<th>Ground clearance</th>
<th>Change in vertical dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>lb</td>
<td>kg</td>
<td>lb</td>
<td>kg</td>
</tr>
<tr>
<td>20.5-25-12PR (L2)</td>
<td>-165</td>
<td>-364</td>
<td>-115</td>
<td>-254</td>
<td>-100</td>
</tr>
<tr>
<td>Remove additional counterweight</td>
<td>-280</td>
<td>-617</td>
<td>-515</td>
<td>-1135</td>
<td>-440</td>
</tr>
</tbody>
</table>

STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 24 V/ 90 A
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 92 Ah/12V (2), 680 CCA
- Battery disconnect
- Boom kick-out, in-cab adjustable
- Bucket positioner
- Color, rear-view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System
- Engine, Komatsu SAA6D107E-3 diesel
- Engine shut-off system, electric
- Equipment Management Monitoring System (EMMS)
  - Lights (central warning, brake oil pressure, engine oil pressure, parking brake, cooling fan reverse, KDPF restriction, seat belt caution, Komtrax message)
  - Gauges (DEF level, Engine water temperature, ecology, Fuel level, HST oil temperature, speedometer/tachometer), variable speed display
- Front fenders
- Fuel pre-filter with water separator
- Horn, electric
- Hydrostatic transmission
- Komatsu SmartLoader Logic
- Komatsu Auto idle Shutdown
- KOMTRAX® Level 5
- Lift cylinders and bucket cylinder
- Lights
  - Back-up light
  - Stop and tail light
  - Turn signal lamps, 2 front and 2 rear with hazard switch
  - Working lights, halogen, 2 front cab mount
  - Working lights, halogen, 2 front fender mount
  - Working lights, halogen, 2 rear grill mount
- Loader linkage with standard lift arm
- Multifunction mono-lever loader control with transmission F/R switch
- Parking brake, electric
- Radiator, wider core
- Radiator mask, swing up
- Rear view mirrors, outside (2) inside (2)
- Rims for 20.5-R25 tires
- ROPS/FOPS Cab Level 2
  - 2 x DC12V electrical outlets
  - Ashtray
  - Auto air conditioner
  - Cigarette lighter, 24V
  - Color LCD/TFT multi-monitor
  - Cup holder
  - Floor mat
  - Operator seat, reclining, air suspension type, heated
  - Radio, AM/FM with AUX input jack
  - Rear defroster, electric
  - Seatbelt, 2-point retractable, 76mm 3" width
  - Space for lunch box
  - Steering wheel, tilt and telescopic
  - Sun visor, front window
  - Windshield washer and wiper, front with intermittent
  - Windshield washer and wiper, rear
  - Service brakes, wet disc type
  - Starting motor, 5.5 kW
  - Transmission speed ranges, 4 forward and 4 reverse
  - Vandalism protection kit, padlocks for battery box (2)

OPTIONAL EQUIPMENT

- Auxiliary steering (SAE)
- Centrifugal engine air pre-cleaner
- Cutting edge (bolt-on type)
- Engine oil and coolant heater
- Guarding package
- High lift boom and bucket cylinder
- Limited slip differential (F&R)
- Lube system
- Quick coupler
- Rear full fenders
- Three-spool valve (will utilize integrated proportional control switch included in the multi-function mono-lever) and piping
- Various tire options, radial and bias
- Various bucket and fork options

Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.