**WA500-7**  
Tier 4 Interim Engine

<table>
<thead>
<tr>
<th>NET HORSEPOWER</th>
<th>OPERATING WEIGHT</th>
<th>BUCKET CAPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>353 HP @ 1900 rpm</td>
<td>74,626–75,453 lb</td>
<td>6.8–8.2 yd³</td>
</tr>
<tr>
<td>263 kW @ 1900 rpm</td>
<td>33850–34225 kg</td>
<td>5.2–6.3 m³</td>
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PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT
**WA500-7**
Tier 4 Interim Engine

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**HIGH PRODUCTION WITH LOW FUEL CONSUMPTION**

A powerful Komatsu SAA6D140E-6 engine provides a net output of 263 kW (353 HP) with 7% improved fuel consumption. 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 air flow 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.

**Increased cooling capacity**
- Auto-reversing fan is standard
- Wider core coolers

**An all new cab** provides the operator with improved comfort and visibility.

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

**Rearview monitoring system (standard)**

**New high capacity air suspension seat**
- Seat mounted EPC controls with F-N-R switch
- Seat heater is standard

**Energy saving guidance**
- Six operator guiding messages
- Enhanced eco-gauge

**Komatsu Auto Idle Shutdown** helps reduce idle time and reduce operating costs.

**Remote boom and bucket positioners** can set kick-outs from inside the cab.

**Variable displacement piston pumps with CLSS** help reduce fuel consumption.

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.

Komatsu SmartLoader Logic helps reduce fuel consumption with no decrease in production.
High Performance Komatsu SAA6D140E-6 Engine
The Komatsu SAA6D140E-6 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. The operator will notice high torque at low speeds, excellent operation and low fuel consumption to provide maximum productivity.

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.

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.

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 airflow to the combustion chamber under all speed and load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas, quick acceleration 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.

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.

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.
**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.

**Komatsu SmartLoader Logic**

The WA500-7 provides Komatsu SmartLoader Logic, a new engine control system. This technology acquires data from various sensors in the vehicle and controls the engine to yield enough torque for each work phase. Engine torque requirements for a wheel loader vary depending on working conditions. For example, the loader requires higher torque for digging in V-shape loading, but less torque when traveling with an empty bucket. This technology limits the engine torque during less demanding work, therefore saving fuel. Komatsu SmartLoader Logic functions automatically and doesn’t interfere with operation, saving fuel without decreasing production.

**Large-Capacity Torque Converter**

The WA500-7 power train has a large capacity torque converter for optimum efficiency. The WA500-7 has greater productivity in V-shape loading applications because the increased tractive effort does not require full throttle. The improved hill climbing ability allows the WA500-7 to up-shift gears faster because of improved acceleration. The WA500-7 can achieve higher gear ranges and maintain higher travel speed when working in load-and-carry applications. In most applications, production is increased and fuel consumption is reduced, resulting in improved fuel efficiency.

**Enhanced Lock-Up**

The large-capacity torque converter with lock-up is standard on the WA500-7. The lock-up function activates in 2nd, 3rd and 4th gears to give the loader a maximum travel speed of 37.3 km/h **23.2 mph**. The large capacity torque converter with enhanced lock-up is effective for both load and carry applications, and V-shape loading which uses lower gears. The enhanced lock-up reduces the clutch engagement shock by controlling engine torque with Komatsu SmartLoader Logic improving operator comfort. The enhanced lock-up combined with Komatsu SmartLoader Logic results in lower fuel consumption and higher travel speeds in load and carry and even some cycle loading applications.

**Komatsu Auto Idle Shutdown**

In order to reduce 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 3 minutes to 60 minutes.

**Low Fuel Consumption**

Komatsu added many new features on the WA500-7 to reduce fuel consumption. These features enable further fuel efficiency by optimally controlling engine power and matching the Komatsu designed and produced high efficiency power train components and hydraulic system.

**7% Reduction in Fuel consumption**

* Compared with the WA500-6, fuel consumption varies depending on working conditions.

**Dual-Mode Engine Power Select System**

This wheel loader offers two selectable operating modes—E and P.

- **E Mode**: This mode provides maximum fuel efficiency for general loading.
- **P Mode**: This mode provides maximum power output for hard digging operations or hill climb applications.

**Eco-Guidance**

The Eco-guidance provides information on the monitor to help save fuel. The monitor displays messages in real-time during operation and on the exit screen when turning the key to shut off the engine. This function can be controlled through the monitor. The operator can view Eco-guide and fuel consumption through the monitor as well as through KOMTRAX.

**Variable Displacement Piston Pump & CLSS**

The variable displacement piston pump combined with the Closed-center Load Sensing System (CLSS) delivers as much hydraulic flow as the job requires, preventing wasted hydraulic flow. Minimized loss contributes to better fuel economy.
New Designed Cabin
The new cabin offers better ergonomics, more storage space and more features to improve operator comfort.

Operator Seat with EPC (Electronic Pilot Control) Levers
The work equipment control system has an EPC lever console integrated into the higher capacity seat and moves with the seat. The angle of the armrest is fully adjustable for optimum operator comfort. An F-N-R switch is now incorporated in the console. A heated seat is now standard.

Tiltable / Telescopic Steering Wheel
The WA500-7 comes standard with a tiltable and telescopic steering wheel that can be pushed up and out of the way for easy entry and exit of the cab.

Low Noise Design
Operator’s ear noise level : 73 dB(A)
Dynamic noise level (outside): 111 dB(A)
The large cab is mounted with Komatsu’s unique ROPS/FOPS viscous mounts. The low-noise engine, hydraulically driven fan, and hydraulic pumps are mounted with rubber cushions, and the cab sealing is designed to provide a quiet, low-vibration, dustproof, and comfortable operating environment.

Increased Cab Storage Area
The WA500-7 cab features a storage box on the left hand side of the cab to allow the operator to store items out of the way. A hot or cold box on the right hand side of the cab allows the operator to keep a beverage or lunch warm or cold, depending on the season.
Ergonomic Comfort

The dashboard and cab have been redesigned to improve operator comfort. The monitor can be controlled by the multi-switch panel. Also, the front glass of the cab has been lowered to improve visibility.

Rear View Monitoring System (standard)

The operator can view the rear of the machine with a full color monitor that is located on the right side of the cab. This monitor can be always on or only on when the loader goes into reverse. Visual guidelines can also be added for more convenience.

Seat Belt Caution Indicator

A warning indicator appears on the monitor when the seat belt is not engaged.

Engine Shutdown Secondary Switch

The engine stop switch is incorporated to allow shutdown of the machine when accessing the key switch is not possible.

Auxiliary Input (MP3 Jack) 12 V Outlets

An Aux input to allow use of an MP3 player or other device is now standard as well as two 12 volt outlets. These are all located on the front of the right hand console.
**Easy Entry and Egress**

The WA500-7 provides an inclined ladder with wide steps and hand holds. The door latch can be reached from ground level to ease opening and closing the door.

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**Remote Bucket & Boom Positioner**

The operator can set the bucket angle and remote boom positioner from the cab. Both upper and lower boom positions are adjustable in the cab with the push of a button.

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**Automatic Kick-down**

The WA500-7 has the ability to automatically shift down to F1. This can be activated through the monitor.

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**Electronically Controlled Suspension System (ECSS)**

The Electronically Controlled Suspension System (ECSS) 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. ECSS is speed sensitive, meaning that the boom won’t move during stationary digging. ECSS is standard on the WA500-7.
**Machine Monitor**
The machine monitor displays various machine information and allows for various settings of the machine.

**Large Multi-Lingual LCD Monitor**
A large user-friendly color monitor provides excellent screen visibility through the use of a TFT liquid crystal display that can easily be read at various angles and lighting conditions. A keypad provides simple and easy navigation to machine operation information.

**Switch panel**
The switch panel is used to select various LCD unit screens and the air conditioner control screen.
By using the switch panel, you can display various user menus on the LCD unit screen and perform the settings of the machine.

**ECO Guidance**
- Operation Records
- ECO guidance Records
- Average Fuel Consumption Logs
- Configurations

**Machine setting / information**
- Radiator fan reverse mode
- CAC fan reverse mode
- TCS setting etc.

**KDPF regeneration**
- Setting for regeneration stop
- Operation of manual stationary regeneration

**Maintenance**
- Check and reset of various maintenance intervals

**Monitor setting**
- 25 Languages
- Rear view monitor setting
- Meter select
- Screen adjustments
Full Side-Opening Gull-Wing Engine Doors
The large gull-wing type engine doors are operated with low effort assisted by gas springs. The doors open in two steps. The first position is for daily maintenance and the second position is for periodic maintenance. Large steps are provided on each side of the frame to help access.

Swing Out Fan
The large capacity cooling unit features a wider spacing of the cooling fins to reduce clogging. The hydraulic driven cooling fan can be opened for cleaning.

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

Maintenance Function
The monitor informs the operator when the replacement interval for oil and filters will be reached.

Battery Disconnect
The battery disconnect switch is located on the side of the right side battery box. This can be used to disconnect power when performing service work on the machine.
**Engine Compartment**

The WA500-7 engine compartment was laid out for easy serviceability. Great attention was paid to the location of the maintenance items, such as the filters, dipsticks and oil fill locations. The same goes for the KDPF and CCV filter, as even the top of the hood was redesigned to ease removal of the KDPF for cleaning or replacement.

**KDPF Regeneration**

Soot trapped by and accumulated in the KDPF is removed by burning it periodically and automatically.

**LED Taillights**

LED tail lamps / brake lamps and reverse lamps provide long bulb life and use less power than the ones on the WA500-6.

**Cab Air Intake Filter**

The cab air intake filter is located on the front of the cab, on the left hand side of the machine behind a lockable door, for easy access and security.

**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.
KOMTRAX is Komatsu's remote equipment monitoring and management system. KOMTRAX gathers critical machine and operation information and provides it in a user-friendly format so that you can make well-informed decisions. KOMTRAX gives you more control of your equipment and better control of your business!

KOMTRAX comes standard on all new Komatsu machines with complimentary manufacturer communications services throughout the entire ownership period. It is a powerful tool and makes Komatsu machines an even better purchase!

**Fleet Optimization**

KOMTRAX tells you how your machines and operators are performing. KOMTRAX provides:
- Fuel consumption data and trends, by unit or fleet
- Machine fuel level
- Machine utilization
- Actual working hours/Machine idle hours
- Attachment usage hours
- Machine travel hours
- Machine load analysis
- Operating mode ratios

**Location and Asset Management**

KOMTRAX tells you where your machines are and can help prevent unauthorized use. KOMTRAX provides:
- GPS location/Operation maps
- Out-of-area and movement alert with location and time
- Engine, nighttime, and calendar lock

**Maintenance Management**

KOMTRAX monitors the health of your machines and provides critical information so that you, and your distributor, can take proactive maintenance measures and reduce downtime. KOMTRAX provides:
- Service Meter Reading (SMR)
- Cautions/Abnormality codes
- Maintenance replacement notifications

**Easy and Flexible Access to Information**

With KOMTRAX, information about your machines is available through a convenient, internet-based portal. KOMTRAX provides:
- A user-friendly KOMTRAX website with customized access to your machine information
- E-mail and text alerts
- Web dial-up service
- Monthly fleet summary reports

For more information, including terms and conditions of the manufacturer complimentary KOMTRAX communication service, ask your distributor, pick up a KOMTRAX brochure, or go to www.komatsuamerica.com/komtrax.

KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus®

For production and mining class machines.
Komatsu Parts Support

Because downtime can be costly, Komatsu maintains a strategic distribution network throughout the U.S. and Canada, to ensure superior parts availability and to keep your Komatsu machine up and running.

- Komatsu America has nine Parts Distribution Centers strategically located throughout the U.S. and Canada
- Komatsu America’s Parts distribution network is accessible 24/7/365 to fulfill your parts needs
- Komatsu has a distributor network of over 325 locations across the U.S. and Canada
- Online parts ordering available through Komatsu eParts, 24/7/365. (See distributor for details)
- Komatsu offers a full line of factory Remanufactured products with same-as-new warranties at a significant cost reduction:
  1. Complete Engine Assemblies
  2. Transmissions
  3. Torque Converters
  4. Hydraulic components
  5. Starters, Alternators, turbochargers and circuit boards

Komatsu Oil and Wear Analysis (KOWA)

The KOWA program uses independent laboratories across the United States to determine how your machine is performing based on a small sample of oil or other fluid. Just like a doctor will take a blood test to check on your personal health, KOWA allows you to check how your equipment is performing. Used with PM Clinic and PM Tune Up, KOWA is one of your best tools for proactively maintaining your Komatsu equipment and maximizing it’s availability and performance.

KOWA detects fuel dilution and coolant leaks, identifies contaminants, and measures wear-metals. Your distributor will help you interpret this information so you can identify potential problems and head them off before they lead to major repairs.

For more information of all of the manufacturer sponsored programs mentioned in this brochure, including terms and conditions of the individual programs, please speak with your distributor or go to www.komatsuamerica.com
**ENGINE**

Model: Komatsu SAA6D140E-6
Type: Water-cooled, 4-cycle
Aspiration: Turbo-charged, after-cooled, cooled EGR
Number of cylinders: 6
Bore: 140 mm
Stroke: 165 mm 6.50"
Piston displacement: 15.24 ltr
Governor: All-speed, electronic

Horsepower:
- SAE J1995: Gross 266 kW 357 HP
- ISO 9249 / SAE J1349: Net 263 kW 353 HP

Rated rpm: 1900 rpm

Fan drive method for radiator cooling: Direct injection

Fuel system: Hydraulic

Lubrication system:
- Method: Gear pump, force-lubrication
- Filter: Full-flow type
- Air cleaner: Dry type with double elements and dust evacuator, plus dust indicator

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

**TRANSMISSION**

Torque converter: 3-elements, 1-stage, 2-phase
Transmission: Full-powershift, planetary type

<table>
<thead>
<tr>
<th>Travel speed</th>
<th>Forward*</th>
<th>Reverse*</th>
</tr>
</thead>
<tbody>
<tr>
<td>1st</td>
<td>7.5 km/h 4.7 mph</td>
<td>8.5 km/h 5.3 mph</td>
</tr>
<tr>
<td>2nd</td>
<td>12.9 km/h 8.0 mph</td>
<td>12.9 km/h 8.0 mph</td>
</tr>
<tr>
<td></td>
<td>(13.1 km/h 8.1 mph)</td>
<td>(13.0 km/h 8.1 mph)</td>
</tr>
<tr>
<td>3rd</td>
<td>22.2 km/h 13.8 mph</td>
<td>24.7 km/h 15.3 mph</td>
</tr>
<tr>
<td></td>
<td>(23.7 km/h 14.7 mph)</td>
<td>(26.5 km/h 16.5 mph)</td>
</tr>
<tr>
<td>4th</td>
<td>35.5 km/h 22.1 mph</td>
<td>38.0 km/h 23.6 mph</td>
</tr>
<tr>
<td></td>
<td>(37.3 km/h 23.2 mph)</td>
<td>(38.0 km/h 23.6 mph)</td>
</tr>
</tbody>
</table>

*P-mode: Measured with 29.5-25 tires
(): Lock-up clutch ON

**AXLES AND FINAL DRIVES**

Drive system: Four-wheel drive
Front: Fixed, full-floating
Rear: Center-pin support, full-floating, 24° total oscillation

Reduction gear: Spiral bevel gear
Differential gear: Conventional type
Final reduction gear: Planetary gear, single reduction

**STANDING PLATE**

Service brakes: Hydraulically actuated, wet disc brakes actuate on four wheels
Parking brake: Wet disc brake
Emergency brake: Parking brake is commonly used

**HYDRAULIC SYSTEM**

Steering system:
- Type: Articulated type, fully-hydraulic power steering
- Steering angle: 36° (40° to max end stop)
- Minimum turning radius at the center of outside tire: 7050 mm

Piston displacement: 2 ltr

Number of spools: 2

Piston displacement: 15.24 ltr

Bore x stroke: 100 mm x 486 mm

**SERVICE REFILL CAPACITIES**

Cooling system: 133 ltr 35.1 U.S. gal
Fuel tank: 473 ltr 124.9 U.S. gal
Engine: 37 ltr 9.9 U.S. gal
Hydraulic system: 337 ltr 89.0 U.S. gal
Axle (each front and rear): 95 ltr 25.1 U.S. gal
Torque converter and transmission: 71 ltr 18.8 U.S. gal

**BUCKET SELECTION GUIDE**

- **Material density:** kg/m³
  - 1200
  - 1600
  - 1800
  - 2000
  - 2200

- **Bucket fill factor:**
  - 115
  - 100
  - 90
  - 85

- **Bucket capacity:**
  - 6.3
  - 8.2
  - 5.6
  - 7.3
  - 5.2
  - 6.8

- **Bucket fill factor:**
  - General Purpose Bucket
  - Heavy Material Bucket
  - Encouraging Bucket with RSC
  - Encouraging Bucket with RSC
  - Encouraging Bucket with RSC

- **Buckets:**
  - Bucket size
  - 2360
  - 2898
  - 3032
  - 3372
  - 3709

- **Material density:** kg/m³
  - 1200
  - 1600
  - 1800
  - 2000
  - 2200
**WA500-7**

Measured with 29.5-25-22PR (L3) tires

<table>
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<th>DIMENSIONS</th>
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| Machine stability and operating weight affected by tire size, and other attachments. |

<table>
<thead>
<tr>
<th>Tread</th>
<th>2400 mm</th>
<th>7'10&quot;</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width over tires</td>
<td>3190 mm</td>
<td>10'6&quot;</td>
</tr>
<tr>
<td>Wheelbase</td>
<td>3780 mm</td>
<td>12'5&quot;</td>
</tr>
<tr>
<td>Hinge pin height, max. height</td>
<td>4755 mm</td>
<td>15'7&quot;</td>
</tr>
<tr>
<td>Hinge pin height, carry position</td>
<td>575 mm</td>
<td>1'11&quot;</td>
</tr>
<tr>
<td>Ground clearance</td>
<td>450 mm</td>
<td>1'6&quot;</td>
</tr>
<tr>
<td>Hitch height</td>
<td>1115 mm</td>
<td>3'8&quot;</td>
</tr>
<tr>
<td>Overall height, top of the stack</td>
<td>3665 mm</td>
<td>12'0&quot;</td>
</tr>
<tr>
<td>Overall height, ROPS cab</td>
<td>3785 mm</td>
<td>12'5&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>General Purpose Bucket</th>
<th>Excavating Bucket</th>
<th>Loose Material Bucket</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
<td>Straight Edge</td>
<td>Straight Edge</td>
</tr>
<tr>
<td>Bolt-on Cutting Edge</td>
<td>Bolt-on Cutting Edge</td>
<td>Bolt-on Cutting Edge</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bucket capacity: heaped</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>Struck</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bucket width</th>
</tr>
</thead>
<tbody>
<tr>
<td>3400 mm</td>
</tr>
<tr>
<td>11'2&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bucket weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>3110 kg</td>
</tr>
<tr>
<td>6,855 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Dumping clearance, max. height and 45° dump angle*(H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>10'10&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach at max. height and 45° dump angle*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>4'11&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach at 2130 mm 7° clearance and 45° dump angle*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>7'7&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Reach with arm horizontal and bucket level*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>10'9&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating height (fully raised)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>21'1&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overall length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>32'6&quot;</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Loader clearance circle (bucket at carry, outside corner of bucket)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>53'11&quot;</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Digging depth: 0°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>5&quot;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>10°</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>1'5&quot;</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>Static tipping load: straight and 40° full turn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>59,833 lb</td>
</tr>
<tr>
<td>24580 kg</td>
</tr>
<tr>
<td>54,190 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Breakout force</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>25000 kgf</td>
</tr>
<tr>
<td>55,115 lb</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Operating weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Straight Edge</td>
</tr>
<tr>
<td>76,611 lb</td>
</tr>
</tbody>
</table>

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

All dimensions, weights, and performance values based on SAE J732c and J742b standards.

Static tipping load and operating weight shown include lubricant, coolant, full fuel tank, additional counterweight, ROPS cab, air conditioning unit, Electronically Controlled Suspension System (ECCS) and operator. Machine stability and operating weight affected by tire size, and other attachments.
WEIGHT CHANGES

<table>
<thead>
<tr>
<th>Tires or attachments</th>
<th>Operating weight</th>
<th>Tipping load straight</th>
<th>Tipping load full turn</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>kg</td>
<td>lb</td>
<td>kg</td>
</tr>
<tr>
<td>Remove additional counterweight</td>
<td>-900</td>
<td>-1984</td>
<td>-1990</td>
</tr>
</tbody>
</table>

STANDARD EQUIPMENT

- 2-spool valve for boom and bucket control
- Alternator, 90 A
- Auto shift transmission with mode select system
- Automatic hydraulic-driven fan with automatic reverse rotation
- Back-up alarm
- Batteries, 160 Ah/12 V (2)
- Battery disconnect
- Boom Kick-out, in-cab adjustable
- Bucket Positioner, in-cab adjustable, 3 positions
- Color rear view camera and monitor
- Counterweight, standard and additional
- Electronically Controlled Suspension System (ECSS)
- Engine, Komatsu SAA6D140E-6 diesel
- Engine shut-off system, electric
- EPC fingertip controls with F-N-R switch, two levers
- 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 (Engine water temperature, ECO, Fuel level, Hydraulic oil temperature, speedometer/tachometer)
  - Front fenders
  - Front window washer and wiper, intermittent
  - Fuel pre-filter with water separator
  - Komatsu SmartLoader Logic
  - Komatsu Auto Idle Shutdown
  - KOMTRAX® Level 4
  - Lift cylinders and bucket cylinder
  - Loader linkage with standard lift arm
  - Lock-up torque converter
  - Radiator, wider core
  - Radiator mask, lattice type
  - Rear view mirrors, outside (2) inside (2)
  - Rims for 29.5-25 tires

OPTIONAL EQUIPMENT

- Auxiliary steering (SAE)
- Limited slip differential (F&R)
- ROPS/FOPS Cab Level 2
- 2 x DC12V electrical outlets
- Ashtray
- Auto air conditioner
- Cigarette lighter
- 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, 11 kW
- Transmission, 4 forward and 4 reverse
- Vandalism protection kit

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