HORSEPOWER
Gross: 143 kW 192 HP / 2100 min⁻¹
Net: 142 kW 191 HP / 2100 min⁻¹

OPERATING WEIGHT
17510 – 18570 kg

BUCKET CAPACITY
2.7 – 4.0 m³
HIGH PRODUCTIVITY & LOW FUEL CONSUMPTION
- Precision Control with Closed-center Load Sensing System (CLSS) Hydraulics
- Faster Travel & Lower Fuel Consumption
- Maximum Dumping Clearance and Reach

INCREASED RELIABILITY
- Komatsu Designed Components
- High-rigidity Frames and Loader Linkage
- Wet Multiple-disc Brakes and Fully Hydraulic Braking System

EXCELLENT OPERATOR ENVIRONMENT
- Pillar-less Large Cab
- Best Position for Comfort
- Automatic Transmission with Electronically Controlled Modulation Valve
- Variable Transmission Cut-Off

EASY MAINTENANCE
- Maintenance Accessibility
- Equipment Management Monitoring System
- Easy Radiator Cleaning

SAFETY
- ROPS/FOPS Cab (ISO 3471/ISO 3449)
- Rear-hinged Full Open Cab Door

KOMTRAX
- KOMTRAX

WA380-6

HORSEPOWER Gross: 143 kW 192 HP / 2100 min⁻¹
Net: 142 kW 191 HP / 2100 min⁻¹

OPERATING WEIGHT 17510 – 18570 kg

BUCKET CAPACITY 2.7 – 4.0 m³
Precision Control with Closed-center Load Sensing System (CLSS) Hydraulics

The WA380-6 features variable-displacement pumps on both the hydraulic and steering systems. These pumps deliver the exact amount of oil required, dramatically improving fuel efficiency. Komatsu’s Closed-center load sensing system (CLSS) hydraulics enables extremely precise control of the working gear, and ensures that the bucket, boom and hydraulically driven attachments can all move smoothly at the same time.
Faster Travel & Lower Fuel Consumption

• **High performance SAA6D107E-1 engine**
  Electronic Heavy Duty Common Rail fuel injection system provides optimum combustion of fuel. This system also provides fast throttle response to match the machine’s powerful tractive effort and fast hydraulic response.
  **Net:** 142 kW  191 HP

• **Low emission engine**
  This engine is EPA Tier 3 and EU Stage 3A emissions certified, without sacrificing power or machine productivity.

• **Low fuel consumption**
  The fuel consumption is reduced greatly because of the low-noise, high-torque engine and the large-capacity torque converter with maximum efficiency in the low-speed range.

• **Dual-mode engine power select system**
  This wheel loader offers two selectable operating modes—E and P. The operator can adjust the machine’s performance with the selection switch.
  • **E mode:** This mode provides maximum fuel efficiency for most of general loading.
  • **P mode:** This mode provides maximum power output for hard digging operation or hill climb.

• **Automatic transmission with mode select system**
  This operator controlled system allows the operator to select manual shifting or two levels of automatic shifting (low, and high). Auto L mode is for fuel saving operation with the gear shift timing set at lower speeds than Auto H mode. Therefore Auto L mode keeps the engine run in a relatively low rpms range for fuel conservation while yielding adequate tractive force by depressing the accelerator pedal.

• **Lock-up torque converter (Optional)**
  The Komatsu designed lock-up torque converter provides increased production efficiency, reduced cycle times and optimum fuel savings in load & carry or hillclimb operations. This optional feature allows the operator to activate the system on/off with a switch located on the right-side control panel.

Maximum Dumping Clearance and Reach

The long lift arms provide high dumping clearances and maximum dumping reach. The operator can even level loads on the body of a dump truck easily and efficiently.

- **Dumping Clearance:** 2950 mm
- **Dumping Reach:** 1150 mm

Eco indicator

The Eco Indicator will inform the operator when the machine is maximizing fuel efficiency.
INCREASED RELIABILITY

Komatsu Designed Components
Komatsu manufactures the engine, torque converter, transmission, hydraulic units and electric parts on this wheel loader. Komatsu loaders are manufactured with an integrated production system under a strict quality control system.

High-rigidity Frames and Loader Linkage
The front and rear frames along with the loader linkage have high rigidity to withstand repeated twisting and bending loads to the loader body and linkage. Both the upper and lower center pivot bearings use tapered roller bearings for increased durability.
Komatsu SAA6D140E-5 engine with high pressure common rail injection delivers ample power in a fuel efficient way. The engine meets EU Stage 3A and EPA Tier 3 emissions regulations. WA380-6’s Komatsu SAA6D140E-5 engine features higher torque, better performance at low speed, excellent throttle response and advanced electronics.

- **High Pressure Common Rail (HPCR) fuel injection system**
  A high pressure pump pumps fuel into “Common Rail”. An Electronic Control Unit (ECU) then optimizes fuel injection from the common rail into the engine cylinders. This improves engine power and fuel efficiency, reducing emission and noise levels.
Telescopic/tilt steering column
The operator can both tilt and telescope the steering wheel to allow maximum comfort and control.

Pillar-less Large Cab
A wide pillar-less flat glass provides excellent front visibility. The wiper arm covers a large area to provide great visibility even on rainy days. The cab area is the largest in its class providing maximum space for the operator. Increased seat slide adjustment to backward by introducing front mounted air conditioner unit.

Low-noise Design
The large cab is mounted with Komatsu’s unique ROPS/FOPS (ISO 3471/ISO 3449) 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, dustproof with pressurizing, and comfortable operating environment.

Best Position for Comfort

- Telescopic/tilt steering column
  The operator can both tilt and telescope the steering wheel to allow maximum comfort and control.

- Fingertip work equipment control levers with large size arm rest
  New Pressure Proportional Control (PPC) control levers are used for the work equipment. The operator can easily operate the work equipment with fingertip control, reducing operator fatigue and increasing controllability. The PPC control lever column can be slid forward or rearward and the large size arm rest can be adjusted up or down to provide the operator with a variety of comfortable operating positions.
Automatic Transmission with Electronically Controlled Modulation Valve

Automatic transmission with Electronically Controlled Modulation Valve automatically selects the proper gear speed based on travel speed, engine speed, and other travel conditions. The Electronically Controlled Modulation Valve system engages the clutch smoothly to prevent lags and shocks when shifting. This system provides efficient machine operation and a comfortable ride.

• Kick-down switch
Consider this valuable feature for added productivity. With the touch of a finger, the kick-down switch automatically downshifts from second to first when beginning the digging cycle. It automatically upshifts from first to second when the direction control lever is placed in reverse. This results in increased rim pull for better bucket penetration and reduced cycle times for higher productivity.

• One push power-up function
The kick-down switch also functions as a power-up switch in first gear. The first time the kick-down switch is depressed, it functions as a kick-down switch and gear speed is reduced. When the machine is in E operation mode and first gear, pressing the kick-down switch a second time changes the operation mode to P allowing increased power for heavy digging operation. The operation mode returns to E when machine gear speed changes or direction changes to reverse.

• Hold switch
Auto shift is selected and if the operator turns on this switch when the lever is at the 3rd or 4th gear speed position, the transmission is fixed to that gear speed.

Variable Transmission Cut-Off

The operator can select the transmission cut-off pressure desired for the left brake pedal using the switch located on the right-side control panel.

• Higher cut-off pressure allows the transmission to remain engaged at higher engine rpm/hydraulic pressure for increased performance in ramp loading and stockpiling operations.

• Lower cut-off pressure disengages the transmission at lower rpm/hydraulic pressure for more fuel efficient operation on level surfaces.

Option

• Joystick steering
A joystick steering system is available as option equipment, and ensures that steering can be wrist operated easily and conveniently in loading operations. This system allows you to change the direction of travel and gear shifting with push buttons on the joystick. And you may pre-select the steering speed in 2 stages, depending upon whether fast V-loading or precise Load & Carry is required.

• Electronically Controlled Suspension System
Electronically Controlled Suspension 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. Electronically Controlled Suspension System operation is speed sensitive and turned off automatically below 5 km/h speed, meaning that the boom won’t move during stationary digging.

Electrically Controlled Transmission Levers

The Komatsu two-lever electronic shift control levers provide easy gear selection and directional changes. The transmission levers can be operated without removing the operator’s hand from the steering wheel, allowing improved comfort and control. Solid state electronics and conveniently located direction and gear shift controls make this possible. Automatic shifts in ranges two through four keep production high and manual shifting at a minimum.
**EASY MAINTENANCE**

**Maintenance Accessibility**

- **Designed to save time**
  With long service intervals and best-in-class accessibility, the WA380-6 reduces the time and money you need to suspend on maintenance. A gas spring helps the operator open and close each gull-wing side door for easy daily servicing. The doors open in two steps and be able to use upper or lower stop position as the situation demands.

- **Simple and convenient access to service**
  The service doors are designed as gull-wing doors. They allow you convenient and safe access to the daily service points from the ground.

- **Centralised filter arrangement**
  With all filters collected into a centralised arrangement, the down time for servicing is reduced to a minimum.

- **External fluid drains**
  All fluids can be drained through externally mounted valves for easy maintenance and reduced spillage.
**Equipment Management Monitoring System**

Komatsu’s new main monitor keeps the operator informed of all machine functions at a glance. The monitor is located behind the steering wheel and displays different machine functions including fluid/filter change intervals and troubleshooting memory display functions. The main gauges are analog type for easy viewing and other functions utilize lighted symbols or Liquid Crystal Display (LCD) readouts.

- **Maintenance control and troubleshooting functions**
  - **Action code display function:** If an abnormality occurs, the monitor displays action details on the character display at the bottom center of the monitor.
  - **Monitor function:** Controller monitors engine oil level, pressure, coolant temperature, air cleaner clogging, etc. If controller finds abnormalities, the error is displayed on LCD.
  - **Replacement time notice function:** Monitor informs replacement time of oil and filters on LCD when replacement intervals are reached.
  - **Trouble data memory function:** Monitor stores abnormalities for effective troubleshooting.

**Easy Radiator Cleaning**

If the machine is operating in adverse conditions, the operator can reverse the hydraulic cooling fan from inside the cab by pressing a switch on the control panel.

- **Automatic reversible fan (Optional)**
  The engine fan is driven hydraulically and can be operated in reverse automatically. When the switch is in the automatic position, the fan revolves in reverse for 2 minutes every 2 hours intermittently (default setting).
SAFETY

ROPS/FOPS Cab
The ROPS/FOPS Cab is standard for operator’s safety. A wide pillar-less flat glass provides excellent front visibility, and a heated rear window provides excellent rear visibility in cold and freezing weather conditions. ROPS (ISO 3471) : Roll-over Protective Structure FOPS (ISO 3449) : Falling Objects Protective Structure

Left or Right Side Cab Entry
The operator can get on and off the machine from either side of the vehicle. This design is convenient when getting on and off in a narrow jobsite or on uneven ground.

Rear-hinged Full Open Cab Door
The cab door hinges are installed to the rear side of the cab providing a large opening angle for the operator to enter and exit. The steps are designed like a staircase, so that the operator can get on and off the cab easily.

Safety Features
• Secondary steering
  If the steering pump is disabled, a secondary steering pump provides hydraulic flow.

• Two independent lines brake system
  Added reliability is designed into the braking system by the use of two independent hydraulic circuits, providing hydraulic backup should one of the circuits fail.

• Battery disconnect switch
  The battery disconnect switch is located in the right side battery box. This can be used to disconnect power when performing service work on the machine.
The Komatsu remote monitoring and management technology provides insightful data about your equipment and fleet in user-friendly format.

Energy Saving Operation Report

KOMTRAX delivers the energy-saving operation report based on the operating information such as fuel consumption, load summary and idling time, which helps you efficiently run a business.

Equipment Management Support

Through the web application, a variety of search parameters are available to quickly find information about specific machines based on key factors. Moreover, KOMTRAX finds out machines with problems from your fleet and shows you through an optimal interface.

Optimal Strategy for Efficient Work

The detailed information that KOMTRAX puts at your fingertips helps you manage your fleet conveniently on the web anytime, anywhere. It gives you the power to make better daily and long-term strategic decisions.
**SPECIFICATIONS**

### ENGINE

- **Model**: Komatsu SAA6D107E-1
- **Type**: Water-cooled, 4-cycle
- **Aspiration**: Turbocharged, aftercooled
- **Number of cylinders**: 6
- **Bore x stroke**: 107 mm x 124 mm
- **Piston displacement**: 6.69 L

**Performance:**

- **Horsepower**:
  - SAE J1995: Gross 143 kW (192 HP)
  - ISO 9249/SAE J1349*: Net 142 kW (191 HP)
- **Rated rpm**: 2100 min⁻¹

**Fan drive method for radiator cooling**: Hydraulic

**Fuel system**: Direct injection

**Governor**:
- All-speed, electronic

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

*Net horsepower at the maximum speed of radiator cooling fan is 133 kW (179 HP).

U.S. EPA Tier 3 and EU Stage 3A emissions certified.

### STEERING SYSTEM

- **Type**: Articulated type, full-hydraulic power steering
- **Steering angle**: 35° each direction (40° end stop)
- **Minimum turning radius at the center of outside tire**: 6320 mm

### HYDRAULIC SYSTEM

**Steering system**:
- **Piston pump**
- **Capacity**: 138 L/min at rated rpm
- **Relief valve setting**: 24.5 MPa (250 kgf/cm²)

**Hydraulic cylinders**:
- **Type**: Double-acting, piston type
- **Number of cylinders**: 2
- **Bore x stroke**: 75 mm x 442 mm

**Loader control**:
- **Piston pump**
- **Capacity**: 205.5 L/min at rated rpm
- **Relief valve setting**: 31.4 MPa (320 kgf/cm²)

**Hydraulic cylinders**:
- **Type**: Double-acting, piston type
- **Number of cylinders—bore x stroke**: Lift cylinder: 2—130 mm x 713 mm
  - Bucket cylinder: 1—150 mm x 535 mm

**Control valve**:
- 2-spool type

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

**Hydraulic cycle time (rated load in bucket)**
- **Raise**: 5.9 s
- **Dump**: 1.8 s
- **Lower (Empty)**: 3.3 s

### AXLES AND FINAL DRIVES

**Drive system**: Four-wheel drive
- **Front**: Fixed, semi-floating
- **Rear**: Center-pin support, semi-floating, 26° total oscillation

**Reduction gear**: Spiral bevel gear

**Differential gear**: Conventional type

**Final reduction gear**: Planetary gear, single reduction

### SERVICE REFILL CAPACITIES

- **Cooling system**: 30.5 L
- **Fuel tank**: 300 L
- **Engine**: 23 L
- **Hydraulic system**: 139 L
- **Axle (each front and rear)**: 40 L

**Torque converter and transmission**: 38 L

**BRAKES**

- **Service brakes**: Hydraulically actuated, wet multiple-disc brakes actuate on four wheels
- **Parking brake**: Wet multiple-disc brake
- **Secondary brake**: Parking brake is commonly used
### Dimensions

Measured with 23.5-25-16PR (L-3) tires

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Standard Boom</th>
<th>High Lift Boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tread</td>
<td>2160 mm</td>
<td></td>
</tr>
<tr>
<td>Width over tires</td>
<td>2775 mm</td>
<td></td>
</tr>
<tr>
<td>A Wheelbase</td>
<td>3300 mm</td>
<td></td>
</tr>
<tr>
<td>B Hinge pin height, max. height</td>
<td>4095 mm</td>
<td>4625 mm</td>
</tr>
<tr>
<td>C Hinge pin height, carry position</td>
<td>520 mm</td>
<td>680 mm</td>
</tr>
<tr>
<td>D Ground clearance</td>
<td>455 mm</td>
<td>455 mm</td>
</tr>
<tr>
<td>E Hitch height</td>
<td>1150 mm</td>
<td>1150 mm</td>
</tr>
<tr>
<td>F Overall height, top of the stack</td>
<td>2975 mm</td>
<td>2975 mm</td>
</tr>
<tr>
<td>G Overall height, ROPS cab</td>
<td>3390 mm</td>
<td>3390 mm</td>
</tr>
</tbody>
</table>

**Turning Radius**

AT OUTSIDE CORNER OF BUCKET
### Standard Boom

<table>
<thead>
<tr>
<th>General Purpose Buckets</th>
<th>Excavating Bucket</th>
<th>Loose Material Bucket</th>
<th>Light Material Bucket</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bucket Capacity</strong></td>
<td><strong>Bolt-on Cutting Edges</strong></td>
<td><strong>Teeth</strong></td>
<td><strong>Bolt-on Cutting Edges</strong></td>
</tr>
<tr>
<td>Heaped</td>
<td>3.3 m³</td>
<td>2.9 m³</td>
<td>2.9 m³</td>
</tr>
<tr>
<td>Struck</td>
<td>2.9 m³</td>
<td>2.7 m³</td>
<td>2.4 m³</td>
</tr>
<tr>
<td><strong>Bucket Weight</strong></td>
<td>1620 kg</td>
<td>1540 kg</td>
<td>1720 kg</td>
</tr>
<tr>
<td><strong>Dumping Clearance</strong></td>
<td>2950 mm</td>
<td>2925 mm</td>
<td>2905 mm</td>
</tr>
<tr>
<td><strong>Reach at Max. Height</strong></td>
<td>1150 mm</td>
<td>1245 mm</td>
<td>1055 mm</td>
</tr>
<tr>
<td><strong>Operating Height</strong></td>
<td>5600 mm</td>
<td>5600 mm</td>
<td>5470 mm</td>
</tr>
<tr>
<td><strong>Total Length</strong></td>
<td>8140 mm</td>
<td>8310 mm</td>
<td>8000 mm</td>
</tr>
<tr>
<td><strong>Loader Clearance</strong></td>
<td>14440 mm</td>
<td>14550 mm</td>
<td>14370 mm</td>
</tr>
<tr>
<td><strong>Digging Depth</strong></td>
<td>0° 60 mm</td>
<td>75 mm</td>
<td>60 mm</td>
</tr>
<tr>
<td><strong>Static Tipping Load</strong></td>
<td>14560 kg</td>
<td>14660 kg</td>
<td>14660 kg</td>
</tr>
<tr>
<td><strong>Breakout Force</strong></td>
<td>158 kN</td>
<td>170 kN</td>
<td>176 kN</td>
</tr>
<tr>
<td><strong>Operating Weight</strong></td>
<td>17580 kg</td>
<td>17510 kg</td>
<td>17690 kg</td>
</tr>
</tbody>
</table>

### High Lift Boom

<table>
<thead>
<tr>
<th>Excavating Bucket</th>
<th><strong>Bolt-on Cutting Edges</strong></th>
<th><strong>Teeth and Segments</strong></th>
<th><strong>Teeth</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Heaped</td>
<td>2.9 m³</td>
<td>2.9 m³</td>
<td>2.7 m³</td>
</tr>
<tr>
<td>Struck</td>
<td>2.4 m³</td>
<td>2.4 m³</td>
<td>2.3 m³</td>
</tr>
<tr>
<td><strong>Bucket Weight</strong></td>
<td>1720 kg</td>
<td>1765 kg</td>
<td>1645 kg</td>
</tr>
<tr>
<td><strong>Dumping Clearance</strong></td>
<td>3575 mm</td>
<td>3455 mm</td>
<td>3455 mm</td>
</tr>
<tr>
<td><strong>Reach at Max. Height</strong></td>
<td>1185 mm</td>
<td>1285 mm</td>
<td>1285 mm</td>
</tr>
<tr>
<td><strong>Reach at 2130 mm Clearance</strong></td>
<td>2205 mm</td>
<td>2260 mm</td>
<td>2260 mm</td>
</tr>
<tr>
<td><strong>Reach with Arm Horizontal and Bucket Level</strong></td>
<td>2940 mm</td>
<td>3110 mm</td>
<td>3110 mm</td>
</tr>
<tr>
<td><strong>Operating Height</strong></td>
<td>5985 mm</td>
<td>5985 mm</td>
<td>5985 mm</td>
</tr>
<tr>
<td><strong>Overall Length</strong></td>
<td>6760 mm</td>
<td>8930 mm</td>
<td>8930 mm</td>
</tr>
<tr>
<td><strong>Loader Clearance Circle</strong> (bucket at carry, outside corner of bucket)</td>
<td>14850 mm</td>
<td>14930 mm</td>
<td>14930 mm</td>
</tr>
<tr>
<td><strong>Digging Depth</strong></td>
<td>0° 110 mm</td>
<td>125 mm</td>
<td>125 mm</td>
</tr>
<tr>
<td><strong>Static Tipping Load</strong></td>
<td>12060 kg</td>
<td>12015 kg</td>
<td>12130 kg</td>
</tr>
<tr>
<td><strong>Breakout Force</strong></td>
<td>166 kN</td>
<td>173 kN</td>
<td>180 kN</td>
</tr>
<tr>
<td><strong>Operating Weight</strong></td>
<td>18530 kg</td>
<td>18570 kg</td>
<td>18450 kg</td>
</tr>
</tbody>
</table>

*At the end of tooth or bolt on cutting edge (B.O.C.)*

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, ROPS cab, and operator. Machine stability and operating weight affected by counterweight, tire size, and other attachments.

Apply the following weight changes to operating weight and static tipping load.

**Dimensions**

Measured with 23.5-25-16PR (L-3) tires
## Buckets & Attachments

### Buckets

<table>
<thead>
<tr>
<th>Type</th>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stockpile Bucket</td>
<td>This bucket is used for loading stockpile products, such as crushed rock and construction materials.</td>
<td><img src="stockpile_bucket.png" alt="Stockpile Bucket Image" /></td>
</tr>
<tr>
<td>Excavating Bucket</td>
<td>This bucket is used for excavating and loading blasted rock on rock crushing job sites, or for excavating natural ground. It has a flat-blade, straight cutting edge, and provides superior rigidity and wear resistance.</td>
<td><img src="excavating_bucket.png" alt="Excavating Bucket Image" /></td>
</tr>
<tr>
<td>Loose/Light Material Bucket</td>
<td>This bucket is used for loading materials with comparatively light specific gravity. It is based on the general purpose bucket, with a lengthened cutting edge and width to give increased capacity.</td>
<td><img src="loose_light_material_bucket.png" alt="Loose/Light Material Bucket Image" /></td>
</tr>
</tbody>
</table>

### Cutting Edges and Teeth

<table>
<thead>
<tr>
<th>Type</th>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cutting Edges</td>
<td>This edge is made for use in loading loose sand and soil, or for loading stockpiled materials. It is bolted to the leading edge of general purpose buckets and may be detached and reversed. The cutting edges are manufactured from especially heat treated, high tension steel, and since they are reversible, both edges can be used. This effectively doubles their working life.</td>
<td><img src="cutting_edges.png" alt="Cutting Edges Image" /></td>
</tr>
<tr>
<td>Teeth (Bolt on type)</td>
<td>These teeth are suitable for loading or excavation of piles of earth or sand, blasted rock, and jobs in the field that involve digging into the side of slopes. The special heat treated, tensile strength steel alloy used in their production assures that they will wear and have a long service life.</td>
<td><img src="teeth_bolt_on_type.png" alt="Teeth (Bolt on type) Image" /></td>
</tr>
<tr>
<td>Teeth (Tip type)</td>
<td>These teeth tips which are attached to an adapter that is welded or bolted to the bucket edge. This means that an interchangeable part, the tooth tip, absorbs most of the wear and protects the actual bucket edge. They give excellent performance when used to handle blasted rock, piles of earth and similarly heavy duty tasks.</td>
<td><img src="teeth_tip_type.png" alt="Teeth (Tip type) Image" /></td>
</tr>
</tbody>
</table>

### Grapple

<table>
<thead>
<tr>
<th>Type</th>
<th>Feature</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>Log Grapple</td>
<td>This is a special log attachment for use with logs ranging from small-diameter short logs to large-diameter long logs. Its shape enables it to grip the log well with little rolling shock, and it is designed so that the center of gravity of the log is close to the machine body. This enables the machine to maintain its stability when loading and hauling.</td>
<td><img src="log_grapple.png" alt="Log Grapple Image" /></td>
</tr>
</tbody>
</table>
### WEIGHT / DIMENSIONS

<table>
<thead>
<tr>
<th>Tires or attachments</th>
<th>Operating weight</th>
<th>Tipping load straight</th>
<th>Tipping load full turn</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>kg</td>
<td>kg</td>
<td>mm</td>
<td>mm</td>
<td>mm</td>
</tr>
<tr>
<td>23.5-25-16PR (L-3)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>2780</td>
<td>455</td>
<td>0</td>
</tr>
<tr>
<td>20.5-25-16PR (L-3)</td>
<td>-970</td>
<td>-770</td>
<td>-680</td>
<td>2695</td>
<td>390</td>
<td>-65</td>
</tr>
<tr>
<td>Install additional counterweight</td>
<td>+340</td>
<td>+900</td>
<td>+755</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### STANDARD EQUIPMENT

**ENGINE/POWER TRAIN:**
- Engine, Komatsu SAA6D107E-1 diesel
- Service brakes, wet disc type
- Transmission, 4 forward and 4 reverse

**ELECTRICAL SYSTEM:**
- Alternator, 60 A
- Back-up alarm
- Back-up lamp
- Batteries, 2 x 12 V/136 Ah
- Directional signal
- Engine shut-off system, electric
- Starting motor, 24 V/5.5 kW

**HYDRAULIC SYSTEM:**
- 2-spool valve for boom and bucket controls
- Hydraulic driven fan with reverse rotation
- Lift cylinders and bucket cylinder

**CAB:**
- Auto shift transmission with mode select system
- Main monitor panel with Equipment Management Monitoring System
- PPC fingertip control, 2 levers
- Rear defroster (electric)
- Rear view mirror for cab
- Rear window washer and wiper
- ROPS/FOPS (ISO 3471/ISO 3449) cab
- Seat, air-suspension type with reclining
- Steering wheel, tilt, tiltable, telescopic
- Sun visor

**WORK EQUIPMENT:**
- Boom kick-out
- Bucket positioner
- Counterweight
- Loader linkage with standard lift boom

**OTHER EQUIPMENT:**
- Front fender
- Fuel pre-filter with water separator
- Radiator mask, lattice type
- Tires (23.5-25-16PR, L-3 tubeless)

### OPTIONAL EQUIPMENT

**ENGINE/POWER TRAIN:**
- Additional fuel filter with water separator
- Brake cooling system
- Engine pre-cleaner with extension
- Limited slip differential (F&R)
- Lock-up clutch torque converter

**ELECTRICAL SYSTEM:**
- 12 V converter
- Batteries, 2 x 12/140 Ah
- Battery disconnect switch

**HYDRAULIC SYSTEM:**
- 3-spool valve
- Hydraulic driven fan with automatic reverse rotation
- Secondary steering (ISO 5010)

**CAB:**
- Air conditioner
- AM/FM radio
- AM/FM stereo radio cassette
- Auto air conditioner
- Cab heater and defroster
- FNR directional change switch
- Joystick steering
- Multifunction mono-lever
- Seat, deluxe suspension seat

**WORK EQUIPMENT:**
- Additional counterweight
- Bucket teeth (bolt-on type)
- Bucket teeth (tip type)
- Counterweight for log
- Cutting edge (bolt-on type)
- High lift boom
- Log grapple
- Segment edges

**OTHER EQUIPMENT:**
- Electronically Controlled Suspension System
- Fire extinguisher
- Load meter
- Ordinary spare parts
- Power train guard
- Rear fender
- Rear under view mirror
- Tool kit
- Vandalism protection kit
Komatsu Total Support

To keep your machine available and minimize operation cost when you need it, Komatsu Distributor is ready to provide a variety of supports before and after procuring the machine.

Fleet recommendation
Komatsu Distributor can study the customer’s job site and provide the most optimum fleet recommendation with detailed information to meet all of your application needs when you are considering to buy new machines or replace the existing ones from Komatsu.

Product support
Komatsu Distributor gives the proactive support and secures the quality of the machinery that will be delivered.

Parts availability
Komatsu Distributor is available for emergency inquiry by the customers for genuine, quality guaranteed Komatsu parts.

Technical support
Komatsu product support service (Technical support) is designed to help customer. Komatsu Distributor offers a variety of effective services to show how much Komatsu is dedicated to the maintenance and support of Komatsu machine.
• Preventive Maintenance (PM) clinic
• Oil & Wear analysis program

Repair & maintenance service
Komatsu Distributor offers quality repair and maintenance service to the customer, utilizing and promoting Komatsu developed programs.

Komatsu Reman (Remanufactured) components
Komatsu Reman products are the result of the implementation of the Komatsu global policy which establishes and agrees to reduce the owning, operating and total Life Cycle Costs (LCC) to Komatsu’s customer through high quality, prompt delivery and competitively priced in own remanufactured products (QDC).