<table>
<thead>
<tr>
<th></th>
<th>D61EX-23</th>
<th>D61PX-23</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>NET HORSEPOWER</strong></td>
<td>168 HP @ 2200rpm</td>
<td>125 kW @ 2200rpm</td>
</tr>
<tr>
<td></td>
<td>D61EX-23 17735 kg 39,099 lb</td>
<td>D61PX-23 18660 kg 41,138 lb</td>
</tr>
<tr>
<td><strong>OPERATING WEIGHT</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>BLADE CAPACITY</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>4.5–5.1 yd³</td>
<td>3.4–3.9 m³</td>
</tr>
</tbody>
</table>

PHOTOS MAY INCLUDE OPTIONAL EQUIPMENT
SAA6D107E-2 variable geometry turbocharged and aftercooled 6.7 liter diesel engine provides excellent fuel economy. 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.

Rear hydraulics (standard)

Rear view monitoring system (standard)

Advanced diagnostic system continuously monitors machine operation and vital systems to identify machine issues and assist with troubleshooting.

Integrated ROPS cab features:
- Large, quiet, and pressurized cab
- Excellent visibility with integrated ROPS structure
- New heated air-ride seat with 15% higher capacity

Improved durability
- Heavy-plate steel used throughout
- Dozer frame with full steel castings
- New HD final drives with triple labyrinth seals
- Komatsu designed and manufactured components

Parallel Link Undercarriage System (PLUS) provides up to double the wear life and lower repair & maintenance costs.

Self-adjusting idler support provides constant and even idler tension, reducing vibration and increasing undercarriage life.

Power Angle Tilt (PAT) dozer with manually adjustable blade pitch increases productivity in a variety of applications.

New Power and Economy modes:
Full power when you need it and Economy mode to save fuel when you don’t.

New engine and hydrostatic pump control technology improves operational efficiency and lowers fuel consumption.

Complete operator blade control
- Palm Command Control System (PCCS)
- Electronic Proportional Control (EPC)
- Adjustable Quick shift and Variable shift modes
- New blade angle switch

New more efficient HST with electronic control
- Customizable Quick shift (3 speed) settings for the operator
- Variable speed selection (20 speeds)
- Low speed matching technology (larger displacement pumps/efficient engine speed)

Large color monitor
- Easy-to-read and use large 7” high-resolution multi-color monitor
- ECO guidance
- On-board diagnostics

Enhanced provision for Topcon® machine control (standard). Bolt-on finishing kit (optional) makes machine Topcon® plug-and-play.
Unrivaled Blade Visibility
The D61EX/PX-23 incorporates Komatsu’s super-slant nose design. Komatsu’s innovative design provides excellent blade visibility for improved machine control and increased efficiency and productivity.
we been missing!
Advanced Electronic Control System

The engine control system has been upgraded to effectively manage a variety of parameters such as the air flow rate, EGR gas flow rate, fuel injection parameters, and aftertreatment functions. The new control system also provides enhanced diagnostic capabilities.

Cooled Exhaust Gas Recirculation (EGR)

Cooled EGR, a technology that has been well proven in Komatsu Tier 3 engines, reduces NOx emission 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.

Redesigned combustion chamber

The combustion chamber 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 filtered gas is returned to the air intake.

High efficiency fuel filter

A new high efficiency fuel filter improves fuel system reliability. The dual-type filter offers twice the filtration capacity.

Environment-Friendly Engine

The Komatsu SAA6D107E-2 engine is EPA Tier 4 Interim and EU Stage 3B emissions certified and provides exceptional performance while reducing fuel consumption. Based on Komatsu proprietary technologies developed over many years, this new diesel engine reduces exhaust gas particulate matter (PM) by more than 90% and nitrogen oxide (NOx) by more than 45%, compared to Tier 3 levels. Through the in-house development and production of engines, electronics, and hydraulic components, Komatsu has achieved great advancements in technology providing high levels of performance and efficiency in virtually all applications.

Komatsu Variable Geometry Turbocharger (KVGT)

Using Komatsu proprietary technology, a newly designed variable geometry turbocharger with a hydraulic actuator is used to manage and deliver optimum air flow to the combustion chamber under all speed and load conditions. The robust hydraulic actuator provides power and precision, resulting in cleaner exhaust gas and improved fuel economy while maintaining performance.
**New HST Technology**

The D61-23 incorporates new proprietary engine and hydrostatic transmission pump control technology to improve operational efficiency and reduce fuel consumption to levels lower than a conventional HST control system can obtain. This Komatsu exclusive feature reduces fuel consumption by up to 10% in P mode in demanding working conditions and up to 20% in E mode under lighter load conditions as compared to the prior model.

Powerful turns under various work conditions are achieved with the new HST transmission, even under load. Counter-rotation is available for minimum turning radius, providing excellent maneuverability in tight spots.

**Variable and New Customizable Quickshift Modes**

The D61-23 offers two gearshift modes: Variable and the new Customizable Quick shift. Variable shift mode provides 20 incremental speed settings for the operator, while the new Customizable Quick shift provides 3 speed settings; all can be adjusted in the monitor to obtain the right speed for different operator preferences.

**Single Pedal (Decelerator/Brake Pedal) to be operated for Speed Control, during Operation**

Machine operation becomes simple because brake function has been integrated into decelerator pedal. Machine moving speed including/excluding engine speed can be controllable by using only one pedal of decelerator/brake pedal. Operation of pedal function can be changed by the mode selector switch.

**Decelerator mode**

The pedal can decelerate engine RPMS and vehicle travel speed. Normally can be used for all applications.

**Brake mode**

The pedal can decelerate vehicle travel speed, keeping high engine revolution. This mode can be helpful to keep work equipment controllability and/or force, even during braking.
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.

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

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, such as in high-combustible applications, this can be easily accomplished through the monitor panel. The soot level indicator identifies how much soot is trapped in the KDPF.

Selectable Working Mode
Working mode E is for general dozing applications with adequate speed and power while reducing fuel consumption and CO₂. Working mode P is aimed at powerful operation and maximum production. The working mode is easily switched on the monitor panel, depending on the work at hand.

- **E mode (Economy mode)**
  With E mode, the engine outputs enough power for most general dozing applications without delivering unnecessary power. This mode allows for energy-saving operation and is suitable for work on ground where the machine may experience shoe slip or applications not requiring large power such as downhill dozing, leveling and light-load work.

- **P mode (Power mode)**
  With P mode, the engine outputs its full power, allowing the machine to perform large production, heavy-load, or uphill work.
Other Features

Power Angle Tilt (PAT) Dozer With Adjustable Pitch
A Power Angle Tilt dozer blade with highly durable box-structure frame is available for the EX and PX machines. The hydraulic blade tilt and angling functions and manually adjustable blade pitch expand versatility and productivity in a variety of applications. This PAT dozer assembly is tested to stringent test standards.

ECO Guidance
In order to support to optimum operation, the following 4 recommendations are displayed to improve fuel saving operation:
1) Avoid Excessive Engine Idling
2) Use Economy Mode to Save Fuel
3) Avoid Hydraulic Relief Pressure
4) Avoid Overload
The operator can access the ECO guidance menu to check the Operation Records, Eco Guidance Records, and Average Fuel Consumption logs.

Secondary Engine Shutdown Switch
A new secondary switch has been added, at the side of the front console, to shut down the engine.

Rear View Monitoring System
On the large LCD color monitor, the operator can view, through one camera, areas directly behind the machine. This camera can be synchronized with reverse operation.
**New Integrated ROPS Cab**
A new design cab; wider, deeper and taller, is integrated with the ROPS. High rigidity and superb sealing performance greatly reduce noise and vibration for the operator and minimize dust entering the cab. Larger glass area improves visibility of the blade, sides, and rear of the machine. Cab meets ROPS and FOPS Level 2 standards.

**Palm Command Control System (PCCS) Travel Joystick**
Palm command travel joystick provides the operator with a relaxed posture and superb fine control. Transmission shifting is simplified with thumb push buttons.

**Electronic Controlled Hydraulic System (EPC) Blade Control Joystick**
Blade control joystick uses the EPC valve and joystick, similar to the travel control joystick. EPC control combined with the highly reliable Komatsu hydraulic system enables superb fine control. A switch is now used to angle the PAT blade. A button to activate float is also provided.

**New Air Suspension Seat**
A new higher capacity low-back heated seat with headrest is now standard. The new seat has many adjustments to accommodate different operators comfortably.

**Auxiliary Input Jack**
By connecting an auxiliary device to this plug input, the operator can hear sound through the speakers installed in the cab.

**Large Multi-Lingual LCD Color Monitor**
A large user-friendly color monitor enables accurate and smooth work. Excellent screen visibility is achieved by the use of a TFT liquid crystal display that can easily be read at various angles and lighting conditions. Simple and easy to operate switches. Function keys facilitate multi-function operations. Data can be displayed in 25 languages for local customization.
Planned maintenance is the best way to ensure long service life from your equipment. That’s why Komatsu designed the D61 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Hydraulically-Driven Swing-up Fan
The D61-23 utilizes a swing-up fan with a gas strut-assisted lift locking system to provide easy access to the (side-by-side) radiator, oil cooler, and charge air cooler. The swing-up feature makes it easier to access cooling cores. The hydraulic fan has a “cleaning” mode. The fan rotates in the reverse direction and helps to clear off objects in front of the cooling areas.

Parallel Link Undercarriage System (PLUS)
Komatsu’s new Parallel Link Undercarriage System (PLUS) provides less downtime plus longer wear life with up to 40% lower undercarriage maintenance costs. Rotating bushings eliminate the cost and downtime for bushing turns, and strengthened rollers and links increase wear life up to two times. With PLUS, individual links can be replaced with common track tools.

Self-Adjusting Idler Support
The self-adjusting idler support provides constant and even tension on idler guide plates reducing noise and vibration and increasing undercarriage life.

Modular Design
One of the design goals behind the creation of the D61 was to manufacture a more durable machine. This was achieved by reducing component complexity and using a strong modular design for increased serviceability and durability. Steel castings reduce the number of welds, improving C-frame rigidity and strength.

Daily Checks
All daily checks can be performed efficiently from the left side of the machine.

Robust Guarding And Attachments
Komatsu offers a full guarding package to help protect your investment in severe applications.
Komatsu CARE – Complimentary Scheduled Maintenance

- PM services for the earlier of 3 years / 2000 hours
- Performed by factory certified technicians
- Komatsu Genuine parts and fluids
- Significantly lowers your cost of ownership while maintaining high uptime and reliability
- Increases resale value and provides detailed maintenance records
- Extended PM services can be purchased beyond the complimentary period to provide additional peace of mind and maximize uptime

Komatsu CARE – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that 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
KOMTRAX EQUIPMENT MONITORING

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

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

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

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

Monthly Operational Analysis

Fuel Consumption Reports

KOMTRAX®
For construction and compact equipment.

KOMTRAX Plus®
For production and mining class machines.

GET THE WHOLE STORY WITH KOMTRAX®
Palm Command Control System (PCCS) joystick control for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the joystick to the left or right to make a turn. Tilting the joystick fully to the left or right activates counter-rotation. Hydrostatic Transmission (HST) provides smooth powerful turns. Fully electronic control enables smooth control that can be adjusted in the monitor. The PCCS utilizes shift buttons to increase and decrease speed.

Minimum turning radius*
D61EX-23.................................2.1 m 83”
D61PX-23.................................2.3 m 91”
*As measured by track marks on the ground at pivot turn.

Suspension........ Oscillating-type with equalizer bar and pivot shafts
Track roller frame.........................Monocoque, large section, durable construction
Rollers and idlers..........................Lubricated track rollers

Lubricated tracks
Parallel Link Undercarriage System (PLUS) with lubricated rotating bushings for extended system wear life and lower maintenance costs. Track tension is easily adjusted with grease gun.

Drawbar pull vs. Travel speed
Maximum usable pull depends on traction and weight of tractor.
**DIMENSIONS**

<table>
<thead>
<tr>
<th></th>
<th>D61EX-23</th>
<th>D61PX-23</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>3250 mm 10'8&quot;</td>
<td>3860 mm 12'8&quot;</td>
</tr>
<tr>
<td>B</td>
<td>435 mm 1'5&quot;</td>
<td>515 mm 1'8&quot;</td>
</tr>
<tr>
<td>C</td>
<td>1195 mm 3'11&quot;</td>
<td>1155 mm 3'9&quot;</td>
</tr>
<tr>
<td>D</td>
<td>1025 mm 3'4&quot;</td>
<td>1025 mm 3'4&quot;</td>
</tr>
<tr>
<td>E</td>
<td>580 mm 1'11&quot;</td>
<td>580 mm 1'11&quot;</td>
</tr>
<tr>
<td>F</td>
<td>3165 mm 10'5&quot;</td>
<td>3165 mm 10'5&quot;</td>
</tr>
<tr>
<td>G</td>
<td>5480 mm 17'12&quot;</td>
<td>5480 mm 17'12&quot;</td>
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<tr>
<td>H</td>
<td>3180 mm 10'5&quot;</td>
<td>3180 mm 10'5&quot;</td>
</tr>
<tr>
<td>I</td>
<td>57.5 mm 2&quot;</td>
<td>57.5 mm 2&quot;</td>
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<tr>
<td>J</td>
<td>1900 mm 6'3&quot;</td>
<td>2130 mm 7'0&quot;</td>
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<tr>
<td>K</td>
<td>600 mm 2'0&quot;</td>
<td>860 mm 2'10&quot;</td>
</tr>
<tr>
<td>L</td>
<td>2500 mm 8'2&quot;</td>
<td>2990 mm 9'10&quot;</td>
</tr>
<tr>
<td>M</td>
<td>2980 mm 9'9&quot;</td>
<td>3530 mm 11'7&quot;</td>
</tr>
<tr>
<td>N</td>
<td>6100 mm 20'0&quot;</td>
<td>6220 mm 20'5&quot;</td>
</tr>
</tbody>
</table>

Ground clearance ........................................... 390 mm 15"

**HYDRAULIC SYSTEM**

Closed-center Load Sensing System (CLSS) designed for precise and responsive control, and for efficient simultaneous operation.

Hydraulic control unit:
All spool control valves externally mounted remote to the hydraulic tank. Piston-type hydraulic pump with capacity (discharge flow) of 171 ltr/min 45 U.S. gal/min at rated engine rpm.

Relief valve setting .................. 27.4 MPa 280 kg/cm² 3,974 psi
Hydraulic cylinders.................. Double-acting, piston type

<table>
<thead>
<tr>
<th>Number of cylinders</th>
<th>Bore</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blade lift</td>
<td>2</td>
</tr>
<tr>
<td>Blade tilt</td>
<td>1</td>
</tr>
<tr>
<td>Blade angle</td>
<td>2</td>
</tr>
</tbody>
</table>

**DOZER EQUIPMENT**

Blade capacities are based on the SAE recommended practice J1265.
Use of high tensile strength steel in moldboard for strengthened blade construction.

<table>
<thead>
<tr>
<th></th>
<th>Overall Length With Dozer</th>
<th>Blade Capacity</th>
<th>Blade Width x Height</th>
<th>Max. Lift Above Ground</th>
<th>Max. Drop Below Ground</th>
<th>Max. Tilt Adjustment</th>
</tr>
</thead>
<tbody>
<tr>
<td>D61EX-23</td>
<td>5480</td>
<td>3.4</td>
<td>3250 x 1195</td>
<td>1025</td>
<td>580</td>
<td>435</td>
</tr>
<tr>
<td>Power Angle Tilt Dozer</td>
<td>18'0&quot;</td>
<td>4.5</td>
<td>10'8&quot; x 3'11&quot;</td>
<td>3'4&quot;</td>
<td>1'11&quot;</td>
<td>17&quot;</td>
</tr>
<tr>
<td>D61PX-23</td>
<td>5480</td>
<td>3.8</td>
<td>3860 x 1155</td>
<td>1025</td>
<td>580</td>
<td>515</td>
</tr>
<tr>
<td>Power Angle Tilt Dozer</td>
<td>18'0&quot;</td>
<td>5.0</td>
<td>12'8&quot; x 3'9&quot;</td>
<td>3'4&quot;</td>
<td>1'11&quot;</td>
<td>20&quot;</td>
</tr>
</tbody>
</table>

Hydraulic oil capacity (refill): Power angle tilt dozer .................. 101 ltr 26.7 U.S. gal

Control valves:
3-spool control valve for Power Angle Tilt dozer
Positions:
Blade lift ................. Raise, hold, lower, and float
Blade tilt .................. Right, hold, and left
Blade angle ................. Right, hold, and left

Additional control valve required for ripper
Positions:
Ripper lift ................. Raise, hold, and lower
STANDARD EQUIPMENT FOR BASE MACHINE*

- Air cleaner, double element with dust indicator
- Alternator, 90 ampere/24V
- Backup alarm
- Batteries, 200 Ah/2 x 12V
- Battery disconnect switch
- Blade lift cylinders
- Color monitor, LCD
- Decelerator pedal (single pedal)
- Engine hood
- Engine intake centrifugal precleaner
- Engine, swing open side cover
- Engine shutdown secondary switch
- Enhanced provision for Topcon
- Front pull hook
- High mount foot rests
- Horn, warning
- Hydraulic driven radiator cooling fan with reverse clean mode
- Hydraulics for rear equipment
- KOMTRAX® Level 4
- Komatsu Diesel Particulate Filter (KDPF)
- Komatsu Variable Geometry Turbocharger (KVGT)
- Locks, filler caps and covers
- Muffler with curved exhaust pipe
- Radiator mask, heavy-duty, swing up
- Radiator reserve tank
- ROPS cab**
- Air conditioner
- Cab accessories
  - 12V power supply (2 ports)
  - Cup holder
  - Rearview mirror
  - Rear view monitoring (1 camera)
  - AM/FM Radio w/remote AUX plug (3.5 mm)
  - 76 dBa
- Work lights
  - 3 front, cab mounted
  - 2 rear, cab mounted
- Seat, air suspension, fabric, heated low back, headrest
- Seat belt, 76 mm 3", retractable
- Seat belt indicator
- Sealed electrical connectors
- Side by side rear mounted cooling package
- Starting motor, 5.5 kW/24V
- Steering system, hydrostatic
- Track roller guards, center and end sections
- Track shoe assembly
  - Heavy-Duty lubricated rotary bushing (PLUS) track
  - 600 mm 24" single grouser shoe (EX)
  - 860 mm 34" single grouser shoe (PX)
- Transmission with Variable and Customizable Quickshift
- Transmission, hydrostatic
- Underguards, heavy duty
- Engine
- Transmission
- Water separator

* Dozer assembly and rear mounted equipment are not included in base machine standard equipment
** Cab meets ROPS and FOPS Level 2 standards

OPTIONAL EQUIPMENT

- Dozer assembly
- Drawbar, long type
- Topcon® Plug-N-Play bolt-on finishing kit
- Track roller guard, full length

Multi-shank ripper (for D61EX/PX)

<table>
<thead>
<tr>
<th>Weight</th>
<th>1757 kg 3,874 lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Beam length</td>
<td>2170 mm 71&quot;</td>
</tr>
<tr>
<td>Maximum lift above ground</td>
<td>560 mm 110&quot;</td>
</tr>
<tr>
<td>Maximum digging depth</td>
<td>665 mm 2'2&quot;</td>
</tr>
</tbody>
</table>

ALLIED MANUFACTURER’S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Komatsu (Ken Garner)
  - Front sweeps 296 kg 657 lb
  - Hinged cab side screens 44 kg 97 lb
  - Hinged cab rear screen 43 kg 95 lb
  - Rear A/C guard (requires front sweep)
  - 61 kg 134 lb
  - Rear fan guard (HD) 12 kg 27 lb
  - Polycarbonate front door inserts 41 kg 90 lb

- Hydraulic winch - Allied H6H
  - 1325 kg 2,900 lb