HORSEPOWER
Gross: 127 kW 170 HP @ 1850 rpm
Net: 125 kW 168 HP @ 1850 rpm
OPERATING WEIGHT
D61EX-15E0 16710 kg 36,840 lb
D61PX-15E0 18710 kg 41,250 lb

STANDARD EQUIPMENT FOR BASE MACHINE
- Air cleaner, double element with dust indicator
- Alternator, 60 ampere
- Backup alarm
- Batteries, 170 Ah/12V x 2
- Decelerator pedal
- Electronic instrument monitor panel
- Engine hood and gull-wing side covers
- Fenders
- Floor mat
- Front pull hook
- High mount footrests
- HSS hydrostatic steering system
- Hydraulic drive radiator cooling fan with clean mode
- Hydraulics for Power Angle Tilt dozer
- Lighting system, (includes 2 front, 1 rear)
- Locks, filler caps and covers
- Muffler with curved exhaust pipe
- Palm Command Control System (PCCS)
- Radiator reserve tank
- Rain Cap (Intake air)
- Rear cover
- Rear view mirror
- ROPS mounting brackets
- Starting motor, 5.5 kW/24V
- Suspension seat, reclining with vinyl material
- Track roller guard, center section (EX long track, PX)
- Track roller guard, end sections
- Trackshoe assembly:
  - 600 mm 24” single grouser shoe (EX)
  - 860 mm 34” single grouser shoe (PX)
- Underguards, engine and transmission
- Water separator

ROPS CANOPY (without cab)
- Roof dimensions:
  - Length: 1830 mm 6’0”
  - Width: 1825 mm 6’0”
  - Height from operator compartment floor: 1670 mm 5’6”

ROPS CANOPY (with cab)
- Additional weight 490 kg 1080 lb
- All-weather, enclosed pressurized cab
- Dimensions:
  - Length: 1760 mm 5’9”
  - Width: 1325 mm 4’4”
  - Height: 1595 mm 5’3”
  - Height from floor to ceiling: 1545 mm 5’1”

Optional Equipment
- Cab
  - Cab accessories:
    - Cup holder
    - Lunch box holder
    - 12V Power supply
    - Sun Visor
    - AM/FM Radio with cassette
    - Air conditioner
    - Heater and defroster
    - Suspension seat, reclining with fabric material (cab only)
- Cab accessories:
  - Cup holder
  - Lunch box holder
  - 12V Power supply
  - Sun Visor
  - AM/FM Radio with cassette
  - Air conditioner
  - Heater and defroster
  - Suspension seat, reclining with fabric material (cab only)

- Suspension seat, with high back
- Seat, air suspension with high back (cab only)
- Seat belt, retractable
- Hitch, deluxe
- Intake pipe with precleaner
- Hydraulics for ripper (EX)
- Long track arrangement (EX)
- ROPS canopy
- ROPS for cab
- ROPS canopy with sweep

ROPS FOR CAB
- Additional weight 240 kg 530 lb
- Dimensions:
  - Length: 530 mm 1’9”
  - Width: 1650 mm 5’5”

- Light, working, cab additional
- Light, rear working (ROPS canopy, additional)
- Track guard, full length
- AR track assembly
- Abrasion resistant bushings
- Underguard, heavy-duty
- Vandalsim protection cover for instrument panel

MULTI-SHANK RIPPER (EX)
- Additional weight including hydraulic control unit: 1645 kg 3,630 lb
- Beam length: 2170 mm 7’1”
- Maximum digging depth: 665 mm 2’2”
- Maximum lift above ground: 565 mm 1’10”

SHOES

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WALK-AROUND

Komatsu-integrated design for the best value, reliability, and versatility. Hydraulics, power train, frame, and all other major components are engineered by Komatsu. You get a machine whose components are designed to work together for higher production, greater reliability, and more versatility.

Electronic monitoring system prevents minor problems from developing into major ones.

Hydraulic driven radiator cooling fan controlled automatically, reduces fuel consumption and operating noise levels. See page 8.

New hexagonal designed cab includes:
- Spacious interior
- Comfortable ride with new cab damper system.
- Excellent visibility
- High capacity air conditioning system (optional)
- Palm Command Control System (PCCS) levers
- Optional pressurized cab
- Adjustable armrests

SAA6D107E-1 turbocharged after-cooled diesel engine provides an output of 125 kW 168 HP with excellent productivity, and is EPA Tier 3 and EU Stage 3A emission certified. See page 6.

Komatsu torqflow transmission offers single lever control of speed (3 forward and 3 reverse) and directional changes.

Forward mounted pivot shafts isolate final drives from blade loads.

Modular power train for increased serviceability and durability. See page 8.

BLADE CAPACITY
PAT Dozer:
D61EX-15E0: 3.4 m³ 4.4 yd³
D61PX-15E0: 3.8 m³ 5.0 yd³
Semi-U Tilt Dozer:
D61EX-15E0: 4.3 m³ 5.6 yd³

Gull-wing engine side doors for easy servicing. See page 8.

Wet, multiple-disc brakes eliminate brake-disc adjustments for maintenance-free operation. See page 8.

Blade tilt lines completely protected.

High capacity Power angle tilt dozer: Semi-U Tilt dozer (for D61EX), combines the highest power in its class with outstanding productivity.

Bolt-on segmented sprocket teeth for easy in-the-field replacement.

Hydrostatic Steering System (HSS) provides smooth, quick, and powerful control in various ground conditions. See page 5.

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### Electronic monitoring system

Prevents minor problems from developing into major ones.

### New hexagonal designed cab includes:

- Spacious interior
- Comfortable ride with new cab damper system
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Eliminate brake-disc adjustments for maintenance-free operation. See page 8.

### Hydrostatic Steering System (HSS)

Provides smooth, quick, and powerful control in various ground conditions. See page 5.

### Bolt-on segmented sprocket teeth

For easy in-the-field replacement.

**Photo may include optional equipment.**
Komatsu’s ergonomically designed control system “PCCS” creates an operating environment with “complete operator control.”

Human-machine interface

Palm command electronic controlled travel control joystick

Palm command travel joystick provides the operator with a relaxed posture and superb fine control without operator fatigue. Transmission gear shifting is simplified with thumb push buttons.

Full-adjustable suspension seat and travel control console

The travel control console has adjustment fore and aft, and height. For improved rear visibility during reverse operations, the operator can adjust seat 15° to the right. (optional)

Outline of electronic control system

Power train electronic control system

Smooth and soft operation

D61EX/PX utilizes a newly designed power train electronic control system. The controller registers the amount of operator control (movements of lever and operation of switches) along with machine condition signals from each sensor, to calculate accurately the control of the transmission for optimal machine operation. The ease of operation and productivity of the new D61EX/PX is greatly improved through these new features.

Electronic Controlled Modulation Valve (ECMV) controlled transmission

Controller automatically adjusts each clutch engagement depending on travel conditions such as gear speed, revolution and shifting pattern. This provides smooth, shockless clutch engagement, improved component reliability, improved component life and operator ride comfort.

Hydrostatic Steering System—smooth, powerful turning

The Hydrostatic Steering System (HSS) is powered by an independent hydraulic pump with engine power transmitted to both tracks without power interruption on the inside track. When the machine turns, the outside track moves faster and the inside slower, for smooth, powerful turns. Counter-rotation is available for minimum turning radius providing excellent maneuverability. Shock-free steering reduces machine vibration and minimizes operator fatigue.

● Turning while dozing—the machine turns by driving the left and right tracks under power at different speeds allowing the machine to travel at the same speed as in straight dozing.

● Side cutting—when side-loading the blade, straight travel can be maintained utilizing HSS.

● On downhill slopes—the machine doesn’t require counter-steering. The joystick provides the same steering response on downhill slopes as on flat ground.

● Grading—can be done efficiently without damaging the ground; because the inside track is not locked during turning.

Preset travel speed function

Preset travel speed selection function is provided as standard equipment. The preset switch enables the operator to select a combination of forward/reverse gear shifts, from 5 patterns; F1-R1, F1-R2, F2-R1, F2-R2 and F2-R3, by using UP/DOWN shift switch, and once the shift pattern is selected, only forward / reverse direction control selection is required. Once F2-R2 pattern is selected, for example, 2nd gear is automatically selected when travel control joystick is moved into forward/reverse. This function reduces gear shifting frequency during machine operation, and is especially helpful, when used in combination with auto-downshift function.

Auto-downshift function

Controller monitors engine speed, travel gear and travel speed. When load is applied and machine travel speed is reduced, the controller automatically downshifts to optimize gear speed to provide high fuel efficiency. This function provides comfortable operation and high productivity without manual downshifting. (This function can be deactivated with cancel switch.)
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**Power train electronic control system**

**Smooth and soft operation**

Palm command electronic controlled travel control joystick

Blade control joystick

Blade control joystick uses the Proportional Pressure Control (PPC) valve and joystick similar to the travel control joystick. PPC control combined with the highly reliable Komatsu hydraulic system enables superb fine control.

Fuel control dial

Engine revolution is controlled by electric signal, providing ease of operation, eliminating maintenance of linkage and joints.

Height adjustable armrest

Armrest height is adjustable without any tools, providing the operator with firm arm support in an ideal armrest.

Outline of electronic control system

Presets travel speed function

Preset travel speed selection function is provided as standard equipment. The preset switch enables the operator to select a combination of forward/reverse gear shifts, from 5 patterns; F1-R1, F1-R2, F2-R1, F2-R2 and F2-R3, by using UP/DOWN shift switch, and once the shift pattern is selected, only forward / reverse direction control selection is required. Once F2-R2 pattern is selected, for example, 2nd gear is automatically selected when travel control joystick is moved into forward/reverse. This function reduces gear shifting frequency during machine operation, and is especially helpful, when used in combination with auto-downshift function.

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**PRODUCTIVITY FEATURES**

### Work equipment

**Large blade**
- Capacities of 3.4 m³ (4.4 yd³) (PAT dozer for D61EX), 3.8 m³ (5.0 yd³) (PAT dozer for D61PX), 4.3 m³ (5.6 yd³) (Semi-U dozer for D61EX) yield outstanding production. High-tensile-strength steel has been incorporated into the front and sides of the blade for increased durability.

### Undercarriage

**Low drive and long track undercarriage**
- Komatsu’s design is extraordinarily tough and offers excellent grading ability and stability.
- The track seal life is increased by using large-size bulldozer type seals.

**Engine**
- The Komatsu SAA6D107E-1 engine delivers 125 kW (168 HP) at 1850 rpm. The fuel-efficient Komatsu engine, together with the heavy machine weight, make the D61EX/PX superior crawler dozers in both ripping and dozing operations.
- The engine is EPA Tier 3 and EU Stage 3A emissions certified, and features direct fuel injection, turbocharger, air-to-air and aftercooler to maximize fuel efficiency.
- To minimize noise and vibration, the engine is mounted to the main frame with rubber cushions.

**Hydraulic drive radiator cooling fan**
- Fan rotation is automatically controlled depending on coolant and hydraulic oil temperature, saving fuel consumption and providing great productivity with a quiet operating environment.

**Operator comfort**
- Operator comfort is essential for productive work. The D61EX/PX provides a quiet, comfortable environment where the operator can concentrate on the work at hand.

### Hexagonal pressurized cab
- The cab’s new hexagonal design and large tinted glass windows provide excellent front, side, and rear visibility.
- Air filters and a higher internal air pressure combine to prevent dust from entering the cab.

**New suspension seat (optional)**
- A newly designed suspension seat is available. Fore and aft sliding rails and suspension spring have been newly designed to increase strength and rigidity. The new seat provides excellent support, improving riding comfort. Fore and aft seat travel is designed for almost all operator sizes. An optional air suspension seat for increased riding comfort is also available. It has an automatic operator weight adjustment system and an air lumbar support to improve operator comfort.

### Comfortable ride with new cab damper mounting
- D61EX/PX’s cab mount uses a new cab damper which provides excellent shock and vibration absorption capacity with its long stroke. Cab damper mounts soften shocks and vibration while traveling over adverse conditions, which conventional mounting system are unable to absorb. The cab damper spring isolates the cab from machine chassis, suppressing vibration and providing a quiet, comfortable operating environment.

**Photo may include optional equipment.**
**Work equipment**

**Large blade**

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**New suspension seat (optional)**

- Fore and aft sliding rails and suspension spring.
- Excellent support, improved riding comfort.
- Adjustable for almost all operator sizes.
- Optional air suspension seat available.

**Photo may include optional equipment**
EASY MAINTENANCE

Preventative maintenance
Preventative maintenance is the only way to ensure long service life from your equipment. That’s why Komatsu designed the D61EX/PX with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Centralized service station
To assure convenient maintenance, the transmission and HSS oil filters, power train oil level gauge and hydraulic tank are arranged on the right side of the machine.

Monitor with self-diagnostic function
With the starting switch turned ON, the monitor displays check-before-starting and caution items appear on the lower right part of the panel. If the monitor detects abnormalities, corresponding warning lamp blinks and warning buzzer sounds. The monitor displays engine rpm and forward/reverse gear speed on the upper part of the monitor during operation. If abnormalities occur during operation, user code appears on display. When a critical user code is displayed, the caution lamp blinks and a warning buzzer sounds to prevent the development of serious problems.

Easy/cleaning with hydraulic driven radiator cooling fan
The radiator core and the core on the front side of the oil cooler can be easily cleaned by running the hydraulic engine fan in reverse. Accordingly, the cleaning intervals of those cores can be increased.

Modular power train design
Power train components are sealed in a modular design that allows the components to be dismounted and mounted without oil spillage.

Reliable simple structure
Simple hull structure main frame design increases durability and reduces stress concentration at critical areas. The track frame has a large cross section and utilizes pivot shaft mounting for greater reliability.

Maintenance-free disc brakes
Wet disc brakes require less maintenance.

Gull-wing engine side covers
The opening area is further enlarged when gull-wing engine side covers are opened, facilitating engine maintenance and filter replacement.

CLEAN AND SILENT DESIGN

Clean engine
The SAA6D107E-1 engine is EPA Tier 3 and EU Stage 3A emissions certified. It develops low emission of NOx, hydrocarbon, and particle matter, without sacrificing power or machine productivity.

Quiet design
Rubber mounted noiseless engine and hydraulically driven fan provide a low noise operation.

Use of recyclable parts
Recyclable parts are used to minimize the effects on the environment.

Extended service interval
Long-life consumable parts such as filters and elements are used to lengthen their replacement interval to lower the maintenance cost.

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**ENGINE**

- Model: Komatsu SAA6D107E-1
- Type: Turbocharged, air-to-air intercooled
- Power: 570 hp
- Horsepower: SAE J300 Gross 172.7 HP

**PILOT SYSTEM**

- Torque converter
- Multiple-disc clutch transmission

**HYDRAULIC SYSTEM**

- Closed-center Load Sensing System (CLSS)
- Full-flow, 3-element, 1-stage,torque converter and a planetary gear, multiple-disc clutch transmission

**UNDERCARRIAGE**

- Monocoque, large section, durable construction
- Number of track rollers: 8

**D61EX-PX-15E0 CRAWLER DOZER**

- Nominal speed: 0–6.8 mph
- Travel: 0–11.0 km/h
- Operating weight: 24,600 lb
- Net horsepower at maximum speed: 170 HP

**DIMENSIONS**

- Ground clearance: 395 mm (15.6"

**HYDRAULIC EQUIPMENT**

- Closed-center Load Sensing System (CLSS)
- Power angle tilt dozer
- Spoor control valve
- Control valves

**DOZER EQUIPMENT**

- Use of high tensile strength steel in mohdabot for strengthened blade construction.
SEGMENTED SPROCKET ARE BOLT-ON FOR EASY IN-THE-FIELD REPLACEMENT.

**STRESS SYSTEM**

PCCS lever controls for all directional movements. Pushing the PCCS lever forward results in forward machine travel, while pulling it rearward reverses the machine. Simply tilt the PCCS lever to left to make a left turn.

Hydrostatic Steering System (HSS) is powered by steering planetary units and an independent hydraulic pump and motor. Coupling turn ratios are also available. Wet, multi-disc, pedal-controlled service brakes are spring-actuated and hydraulically released. Gear shift lock allows positive park brake action.

Minimum turning radius: D61EX-15E0: 1.8 m (5’11”)

- **As measured by track marks on ground.**

**UNDERCARRIAGE**

Suspension: Oscillation with equalizer bar and forward mounted pivot shafts. Track frame: Monocoque, large section, durable construction. Number of carrier rollers (each side): 2

Track shoes: Lubricated tracks. Unique dust seals for preventing entry of foreign abrasives into pin-to-bushing clearances for extended service. Track tension is easily adjusted with a grease gun.

**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 beside the hydraulic tank. Plunger-type hydraulic pump with capacity (discharge flow) of 195 l/min at rated engine rpm.

Relief valve setting: 20.6 MPa

**COOLANT AND LUBRICANT CAPACITY (REFILLING)**

Use of high tensile strength steel in motoblock for strengthened blade construction.

- Spool control valve for semi-U and straight tilt dozer.

- Spool control valve for power angle tilt dozer.

- Positions: Blade lift . . . . . . Raise, hold, lower, and float

- Blade lift . . . . . . . Right, hold, and left

- Blade angle . . . . . . . . Right, hold, and left

- Spool control valve for semi-U and straight tilt dozer.

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  - 860 mm 34" single grouser shoe (PX)
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- Roof dimensions:
  - Length: 1830 mm 6'0"
  - Width: 1825 mm 6'0"
  - Height from operator compartment floor: 1670 mm 5'6"
- Meets ISO 3449 FOPS standard.
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STANDARD EQUIPMENT FOR BASE MACHINE

OPTIONAL EQUIPMENT
- Cab
  - Cab accessories:
    - Cup holder
    - Lunch box holder
    - 12V Power supply
    - Sun Visor
    - AM/FM Radio with cassette
    - Air conditioner
    - Heater and defroster
    - Suspension seat, reclining with fabric material (cab only)

CAB
- Additional weight: 490 kg 1080 lb
- All-weather, enclosed pressurized cab
  - Dimensions:
    - Length: 1760 mm 5'9"
    - Width: 1325 mm 4'4"
    - Height: 1595 mm 5'3"
    - Height from floor to ceiling: 1545 mm 5'1"

ROPS FOR CAB
- Additional weight: 240 kg 530 lb
- Dimensions:
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  - Width: 1650 mm 5'5"
- Additional weight: 1645 kg 3,630 lb
- Beam length: 2170 mm 7'1"
- Maximum digging depth: 665 mm 2'2"
- Maximum lift above ground: 565 mm 1'10"

MULTI-SHANK RIPPER (EX)
- Additional weight (including hydraulic control unit): 1645 kg 3,630 lb
- Beam length: 2170 mm 7'1"
- Maximum digging depth: 665 mm 2'2"
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Printed in Japan 201301 IPSIN

CEN00215-02

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