STANDARD EQUIPMENT FOR BASE MACHINE

Engine and related items
- Air cleaner, dry, double element type with caution lamp on monitor
- Decelerator pedal
- Engine, KOMATSU SAA4D107E-1, net output of 79 kW (105 HP) direct injection, turbocharged, air-to-air aftercooler, EPA Tier 3 emissions certified
- Fan, hydraulic driven, electronic control
- Fuel pre-filter (10 micron) and fuel filter (2 micron)
- Intake pipe with precleaner
- Radiator reserve tank
- Radiator mask grid

Electric system
- Alternator, 35 amp (24 V)
- Back-up alarm
- Batteries, large capacity 92 Ah
- Starting motor, 5.5 kW

Power train and controls
- Brake pedal
- Counter rotation
- Electronically controlled Hydrostatic Transmission (HST) with Quick-shift and variable speed settings
- Palm Command Control System (PCCS) with electronic control for travel control
- Reverse speed presets

Undercarriage
- Idler cushions
- Sprockets, bolt-on
- Track roller guards, end section
- Track shoe assembly with sealed and lubricated link assembly:
  - D39EX-22: 460 mm 18.1" single grouser shoe
  - D39PX-22: 635 mm 25.0" single grouser shoe

Guards and covers
- Crankcase guard and underguard
- Engine hood and side panels
- ROPS/FOPS*
- Sprocket inner guard

Operator environment
- Cup holder
- Electronic monitor panel with on-board diagnostics
- Foot rest, high mounted
- Horn
- Seat, 76 mm 3" retractable
- Seat, low back vinyl, suspension type

Hydraulics and controls
- Accumulator for Proportional Pressure Control (PPC)
- Hydraulics for PAT dozer
- Palm Command Control System (PCCS) with Proportional Pressure Control (PPC) for blade control

Vandalism protection
- Filler cap locks and cover locks
- Instrument panel lock and cover locks
- Operator environment

Optional equipment

Track shoe assembly with sealed and lubricated link assembly
- D39PX-22
  - 700 mm 27.6" single grouser, link
- Track rail assembly with Abrasion Resistant (AR) bushings and sealed and lubricated link assembly
- D39EX-22
  - 460 mm 18.1" single grouser, shoe with AR link
  - 510 mm 20" single grouser, shoe with AR link
- D39PX-22
  - 635 mm 25.0" single grouser, shoe with AR link
  - 700 mm 27.6" single grouser, shoe with AR link

Dozer assembly
- D39PX-22 – 2800 mm 9’9” blade

Rear equipment and hydraulics
- Rear hydraulics (D39EX/PX-22)
- Ripper, multi-shank (D39EX-22 only)
- Hitch
- ROPS canopy and ROPS cab equipment
- ROPS cab (includes air conditioner with heater, defroster, pressurizer)
  - Optional radio, AM/FM, cassette
  - ROPS canopy with lower heater

Dozer assembly and rear-mounted equipment are not included in base machine price.

*ROPS cab or ROPS canopy may be ordered for all machines. Cab and canopy FOPS Level 2: ROPS/FOPS meets all OSHA/MSHA standards and regulations criteria.

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**D39-22 CRAWLER DOZER**

## WALK-AROUND

### All-around visibility
- Super-slat nose design
- Cab-forward design
- Integrated ROPS/FOPS

### Increased productivity
- Highest HP in its class
- Electronically-controlled hydraulically-driven fan
- In-shoe final drive
- High capacity Pitch- Adjustable Power-Angle-Tilt dozer blade

### Easy operation/Increased operator comfort
- Hydrostatic Transmission (HST) with electronic control
- Palm Command Control System (PCCS)
- Large and quiet pressurized cab (optional)
- New cab damper mounting system (for cab)

### Improved durability
- Heavy-plate steel used throughout
- Modular design

### Easy maintenance
- Electronic monitor panel with on-board diagnostics
- Rear-mount radiator with swing-up hydraulically- driven fan
- Ground-level daily service checks

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Photo may include optional equipment.
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- Cab-forward design
- Integrated ROPS/FOPS

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- Electronic monitor panel with on-board diagnostics
- Rear-mount radiator with swing-up hydraulically-driven fan
- Ground-level daily service checks

Photo may include optional equipment.
See what you have been missing!

Unrivalled blade visibility
The D39EX/PX-22 incorporates Komatsu's super-slant nose design. Komatsu's innovative design provides excellent blade visibility for improved machine control and increased efficiency and productivity.

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Unrivaled blade visibility

The D39EX/PX-22 incorporates Komatsu’s super-slat nose design. Komatsu’s innovative design provides excellent blade visibility for improved machine control and increased efficiency and productivity.

See what you have been missing!
**Operator Comfort**

**HST with electronic control**

The D39 is equipped with Komatsu-designed Hydrostatic Transmission (HST) that allows for Quick-Shift or variable speed selection. The HST consists of dual-path closed-circuits with two variable displacement piston pumps and two variable displacement travel motors. Hydrostatic steering eliminates steering clutches and brakes, providing smooth powerful turns. Fully electronic control provides full automatic shifting and enables smooth control. Engine speed is controlled using an electronic fuel control dial.

**Comfortable ride with cab damper mounting**

The D39’s cab mount uses a cab damper system that provides excellent shock and vibration absorption which conventional mounting systems are unable to match. The silicon oil filled cab damper mount helps to isolate the cab from the machine body, suppressing vibration and providing a quiet, comfortable operating environment.

**Palm command Proportional Pressure Control (PPC)**

PPC-controlled palm command joystick provides blade control. Combined with the highly reliable Komatsu hydraulic system, precise control is the result.

**Closed-center Load Sensing System (CLSS) hydraulic system**

With CLSS hydraulics, blade lever stroke is directly proportional to blade speed, regardless of the load and travel speed. This results in superb fine controllability.

**Palm Command Control System (PCCS)**

The low-effort PCCS joystick controls all directional movements including machine travel speed as well as counter-rotation.

**Durability Features**

**Heavy-duty undercarriage**

Large link, large bushing diameter, and wider sprocket teeth extend undercarriage life.

**Protected travel motors and final drives**

Travel motors and final drives are mounted within the track shoe width for protection from rocks and stumps, and for improving durability.

**Monocoque track frame**

Komatsu’s monocoque track frame design using thicker box section material and fewer welded components provides increased rigidity and strength.

**One-piece nose guard**

Simplified high-rigidity structure with thicker plates reduces vibration and noise.

**Main frame**

High-rigidity simple main frame structure combined with thick plates and steel castings provide increased reliability and durability.

**Modular design**

One of the design goals behind the creation of the D39 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.
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**One-piece nose guard**
Simplified high-rigidity structure with thicker plates reduces vibration and noise.
This engine is EPA Tier 3 and EU Stage 3A emissions certified; “ecot3” - ecology and economy combine with Komatsu technology to create a high performance engine without sacrificing power or productivity.

**Fuel efficient electronic controlled engine**

The Komatsu SAA4D107E-1 engine delivers a net output of 79 kW (105 HP) at 2200 rpm. The powerful Komatsu engine incorporated into the D39-22 makes this dozer fuel efficient and the logical choice in both grading and dozing operations. The engine is turbocharged and features direct fuel injection and air-to-air aftercooling to maximize power, fuel efficiency, and emission compliance. To minimize noise and vibration, the engine is iso-mounted to the main frame.

**Hydraulically-driven cooling fan**

The engine cooling fan rotation speed and direction is electronically controlled. The fan rotation speed depends on engine coolant and hydraulic oil temperatures; the higher the temperature, the higher the fan speed. This system increases fuel efficiency, reduces operating noise levels, and requires less horsepower than a belt-driven fan.

**Long track-on-ground**

Long track-on-ground improves machine stability and grading/dozing performance.

**Pitch-Adjustable PAT dozer blade**

Blade pitch angle can be easily adjusted by changing the length of the pitch rod on the top of the blade. This enables to provide maximum job efficiency in various material and ground conditions.

**Hydrostatic Transmission (HST) control system**

The HST controller monitors engine output and work equipment/travel load. It controls HST pump and motor displacement to provide the optimum speed and drawbar pull. Power to both tracks during turns and counter-rotation makes the D39 extremely maneuverable.

**Remote grease points**

Remote grease points facilitate lubrication of the C-frame pivots and angle cylinder bearing.

**Adjustment-free parking disc brake**

An adjustment-free spring-applied hydraulic release wet parking brake is located in each final drive.

**Hydraulically-driven swing-up fan**

The D39-22 utilizes a swing-up fan with a gas strut-assisted lift locking system to provide easy access to the 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.

**New monitor with self-diagnostic function**

The monitor system provides critical information about the machine. It provides operating condition status and notifies the operator with a lamp and buzzer when an abnormality occurs. In addition, fault codes are indicated to aid troubleshooting and help reduce machine downtime. Service reminders for fluids and filters are also indicated.

**Daily checks**

All daily checks can be performed efficiently at ground level.
**PRODUCTIVITY FEATURES**

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**MAINTENANCE FEATURES**

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**Daily checks**
All daily checks can be performed efficiently at ground level.

**Remote grease points**
Remote grease points facilitate lubrication of the C-frame pivots and angle cylinder bearing.

**Adjustment-free parking disc brake**
An adjustment-free spring-applied hydraulic release wet parking brake is located in each final drive.
### SPECIFICATIONS

**ENGINE**

- **Model**: Komatsu SAA4D107E-1*
- **Type**: 4-cycle, water-cooled, direct injection
- **Aspiration**: Turbocharged, air-to-air aftercooled
- **Number of cylinders**: 4
- **Piston displacement**: 4,66 lit (272 in³)
- **Governor**: All-speed, electronic
- **Horsepower**: 105 HP
- **Rated rpm**: 2,200 rpm
- **Fan drive type**: Turbocharged, air-to-air aftercooled
- **Hydraulic Lubrication system**: Gear pump, force lubrication

**HYDRAULIC TRANSFORMATION**

- **Travel speed (quick shift mode)**: Up to 2.5 km/h
- **Travel speed**: Up to 2.1 km/h
- **Rated rpm**: 2,200 rpm
- **Fan drive type**: Hydraulic
- **Rated rpm**: 2,200 rpm
- **Engine oil**: 2490 mm
- **Coolant**: 2360 mm
- **Lubricant**: 2425 mm

**STOCKING SYSTEM**

- **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)** eliminates steering clutches and brakes, providing smooth powerful turns. Fully electronic control enables smooth control. The PCCS utilizes shift buttons to increase and decrease speed.
- **Minimum turning radius**: D39EX-22: 2.2 m, D39PX-22: 2.4 m

**UNDERCARRIAGE**

- **Suspension**: Rigid track frame
- **Roller and idlers**: Lubricated track rollers
- **Lubricated tracks**: Bushing clearances to provide extended service life. Track tension is easily adjusted with a grease gun.

**FINAL DRIVES**

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

**HYDRAULIC SYSTEM**

- **Maximum lift**: 2.79 m
- **Maximum drop**: 2.79 m
- **Blade angle**: Raise, hold, and lower

**COOLANT AND LUBRICANT CAPACITY (REFILL)**

- **Coolant**: 23 ltr
- **Fuel tank**: 158 mm x 59 mm
- **Engine oil**: 15 ltr
- **Hydraulic tank**: 2060 mm x 900 mm
- **Final drive (each side)**: 3.5 m

**OPERATING WEIGHT (APPROXIMATE)**

- **Tractor weight**: 3,365 in²
- **Drawbar Pull**: 60 ltr
- **Cooling System**: 60 ltr
- **Blade angle**: Raise, hold, and lower

**DIMENSIONS**

- **Blade angle**: Raise, hold, and lower
- **Relief valve setting**: 15 ltr
- **Blade lift**: 2

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*Including Hitch*
## SPECIFICATIONS

### ENGINE

- **Model:** Komatsu SAA4D107E-1
- **Type:** 4-cylinder, water-cooled, direct injection
- **Aspiration:** Turbocharged, air-to-air aftercooled
- **Number of cylinders:** 4
- **Bore x stroke:** 107 mm x 124 mm, 4.21 in. x 4.88 in.
- **Piston displacement:** 4.46 liter (272 in³)
- **Governor:** All-speed, electronic
- **Horsepower:** SAE J1995: Gross 79.9 kW (107 HP)
- **ISO 9249 / SAE J1349:** Net 79 kW (105 HP)
- **Hydraulic fan at maximum speed:** Net 71 kW (95 HP)
- **Rated rpm:** 2200 rpm
- **Fan drive type:** PTO
- **Hydraulic Lubrication system:** Gear pump, force lubrication

### HYDRAULIC TRANSMISSION

- **Travel speed (quick shift mode):**
  - Forward: 0-3.4 km/h (0-2.1 mph), 0-4.1 km/h (0-2.5 mph), 0-9.5 km/h (0-5.9 mph)
  - Reverse: 0-3.4 km/h (0-2.1 mph), 0-4.1 km/h (0-2.5 mph), 0-9.5 km/h (0-5.9 mph)

### UNDERCARRIAGE

- **Suspension:** Dual-path, hydrostatic transmission provides infinite speed changes up to 8.5 km/h (5.3 mph).
- **Rollers and idlers:** Lubricated track rollers
- **Shoe bushing clearances:** To provide extended service life. Track tension is easily adjusted with a grease gun.

### STEERING SYSTEM

- **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) eliminates steering clutches and brakes, providing smooth powerful turns.** Fully electronic control enables smooth control. The PCCS utilizes shift buttons to increase and decrease speed.

### OPERATING WEIGHT

- **Tractor weight:** Including ROPS canopy, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.
  - **D39EX-22:** 7,800 kg (17,196 lb)
  - **D39PX-22:** 8,160 kg (18,090 lb)

### OPERATING PERFORMANCE

- **US ton:**
  - **D39-22:** 1200 mm (4' 0")
  - **D39PX-22:** 1320 mm (4' 4")

### FINAL DRIVES

- **Two-stage planetary gear integrated into axial piston travel motors.** Compact in-shoe mount reduces risk of damage by debris. Bolt-on sprocket for easy replacement.

### UNDERCARRIAGE

- **Suspension:** Rigid type track frame.
- **Rigid type Suspension:** Unique seals prevent entry of foreign abrasive material into pin to bushing clearances to provide extended service life. 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 remote to the hydraulic tank. Piston-type hydraulic pump with capacity (discharge flow) of 99 l/min 26.2 U.S. gal/min at rated engine rpm.
- **Relief valve setting:** 27.4 MPa, 280 kg/cm², 3,983 psi
- **Hydraulic oil capacity (refilling):**
  - **D39EX-22:** 8.5 l (2.21 U.S. gal)
  - **D39PX-22:** 10 l (2.64 U.S. gal)

### DOZER EQUIPMENT

- **Use of high tensile strength steel in moldboard for strengthened blade construction.**

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### FINAL DRIVES

- **Model:**
  - D39EX-22
  - D39PX-22

- **Specifications:**
  - **D39EX-22:**
    - **Drive Torque:** 1320 mm (4' 4")
    - **Braking System:** Drum brake
  - **D39PX-22:**
    - **Drive Torque:** 1320 mm (4' 4")
    - **Braking System:** Drum brake

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**Note:** The text provided includes various specifications and technical details relevant to the dozer equipment described, such as engine specifications, transmission details, undercarriage features, and operating performance data. The content is organized to provide comprehensive information on the dozer’s capabilities and design features. The text is intended to be informative for those interested in the technical aspects of the dozer equipment.
STANDARD EQUIPMENT FOR BASE MACHINE

Engine and related items
- Air cleaner, dry, double element type with caution lamp on monitor
- Decelerator pedal
- Engine, KOMATSU SAA4D107E-1, net output of 79 kW (105 HP) direct injection, turbocharged, air-to-air aftercooler, EPA Tier 3 emissions certified
- Fan, hydraulic driven, electronic control
- Fuel pre-filter (10 micron) and fuel filter (2 micron)
- Intake pipe with precleaner
- Radiator reserve tank
- Radiator mask grid
- Ribbon heater
- Water separator

Electric system
- Alternator, 35 amp (24 V)
- Back-up alarm
- Batteries, large capacity 92 Ah
- Starting motor, 5.5 kW

Power train and controls
- Brake pedal
- Counter rotation
- Electronically controlled Hydrostatic Transmission (HST) with Quick-shift and variable speed settings
- Electronically controlled Hydrostatic Transmission
- Palm Command Control System (PCCS) with electronic control for travel control
- Reverse speed presets

operator environment
- Cup holder
- Electronic monitor panel with on-board diagnostics
- Foot rest, high mounted
- Horn
- Seat belt, 76 mm (3") retractable
- Seat, low back vinyl, suspension type
- Seat, air suspension type, fabric high back

Hydraulics and controls
- Accumulator for Proportional Pressure Control (PPC)
- Hydraulics for PAT dozer
- Palm Command Control System (PCCS) with Proportional Pressure Control (PPC) for blade control

Vandalism protection
- Filter cap locks and cover locks
- Instrument panel lock and cover (canopy only)

Other standard equipment
- Grease gun holder
- High altitude arrangement (no fuel adjustment up to 2300 m (7,546 ft)
- Lighting package - (3 front, 1 rear cab/canopy)
- Marks and plates, English
- Pullhoek, front

Optional equipment

Undercarriage
- Idler cushions
- Sprockets, bolt-on
- Track roller guards, end section
- Track shoe assembly winseled and lubricated link assembly:
  - D39EX-22: 460 mm (18.1") single grouser shoe
  - D39PX-22: 635 mm (25.0") single grouser shoe
- Guards and covers
  - Crankcase guard and underguard
  - Engine hood and side panels
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Optional equipment

Track shoe assembly with sealed and lubricated link assembly
- D39PX-22: 700 mm (27.6") single grouser, link
- Track rail assembly with Abrasion Resistant (AR) bushings and sealed and lubricated link assembly
- D39EX-22: 460 mm (18.1") single grouser, shoe with AR link
- D39PX-22: 635 mm (25.0") single grouser, with AR link
- D39PX-22: 700 mm (27.6") single grouser, with AR link

Dozer assembly
- D39PX-22: 2800 mm (9') blade
- Track roller guards
  - Track roller guards, segmented, full length
- Operator environment
  - 12 amp (12V) power port (cab only)
  - Cab machine
    - Cigarettes lighter (24 V, standard for cab)
    - Lunch box holder (standard for cab)
    - Provision for radio (cab only)
    - Seat, suspension type, fabric, high back
    - Seat, suspension type, fabric low back
    - Seat, air suspension type, fabric high back
    - Lunch box holder (option for canopy)

Rear equipment and hydraulics
- Rear, hydraulics (D39EX/FX-22)
- Ripper, multi-shank (D39EX-22 only)
- Hitch
- ROPS canopy and ROPS cab equipment
- ROPS cab (includes air conditioner with heater, defroster, pressurizer)
- Optional radio, AM/FM, cassette
- ROPS canopy with lower heater

Operator environment
- Forestry guards for cab and canopy

Materials and specifications are subject to change without notice. KOMATSU is a trademark of Komatsu Ltd. Japan.