# **KOMATSU**® D51EX-22 D51PX-22

NET HORSEPOWER

97 kW 130 HP @ 2200 rpm

**OPERATING WEIGHT** 

D51EX-22: 12600 kg 27,778 lb D51PX-22: 13100 kg 28,881 lb





CRAWLER DOZER

### D51-22 CRAWLER DOZER

# WALK-AROUND

## **All-around Visibility**

- Super-slant nose design
- Cab-forward design
- Integrated ROPS/FOPS (level 2)

# **Increased Productivity**

- Highest HP in its class
- Electronically-controlled hydraulically-driven fan
- Oscillating track frame with in-shoe final drive
- High capacity Power-Angle-Tilt dozer blade

### Easy Operation/Increased Operator Comfort

- Hydrostatic Transmission (HST) with electronic control
- Palm Command Control System (PCCS)
- New cab damper mounting system
- · Large and quiet pressurized cab (optional)

# Improved Durability

- New-design undercarriage
- Heavy-plate steel used throughout
- Dozer frame with full steel castings

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Modular design

### Easy Maintenance

- Electronic monitor panel with onboard diagnostics
- Rear-mount radiator with swing-up hydraulically-driven fan

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· Ground-level daily service checks



KOMTRAX equipped machines can send location, SMR and operation maps to a secure website utilizing wireless technology. Machines also relay error codes, cautions, maintenance items, fuel levels, and much more.

# D51-22

**NET HORSEPOWER** 97 kW 130 HP @ 2200 rpm

**OPERATING WEIGHT** 



Photos may include optional equipment

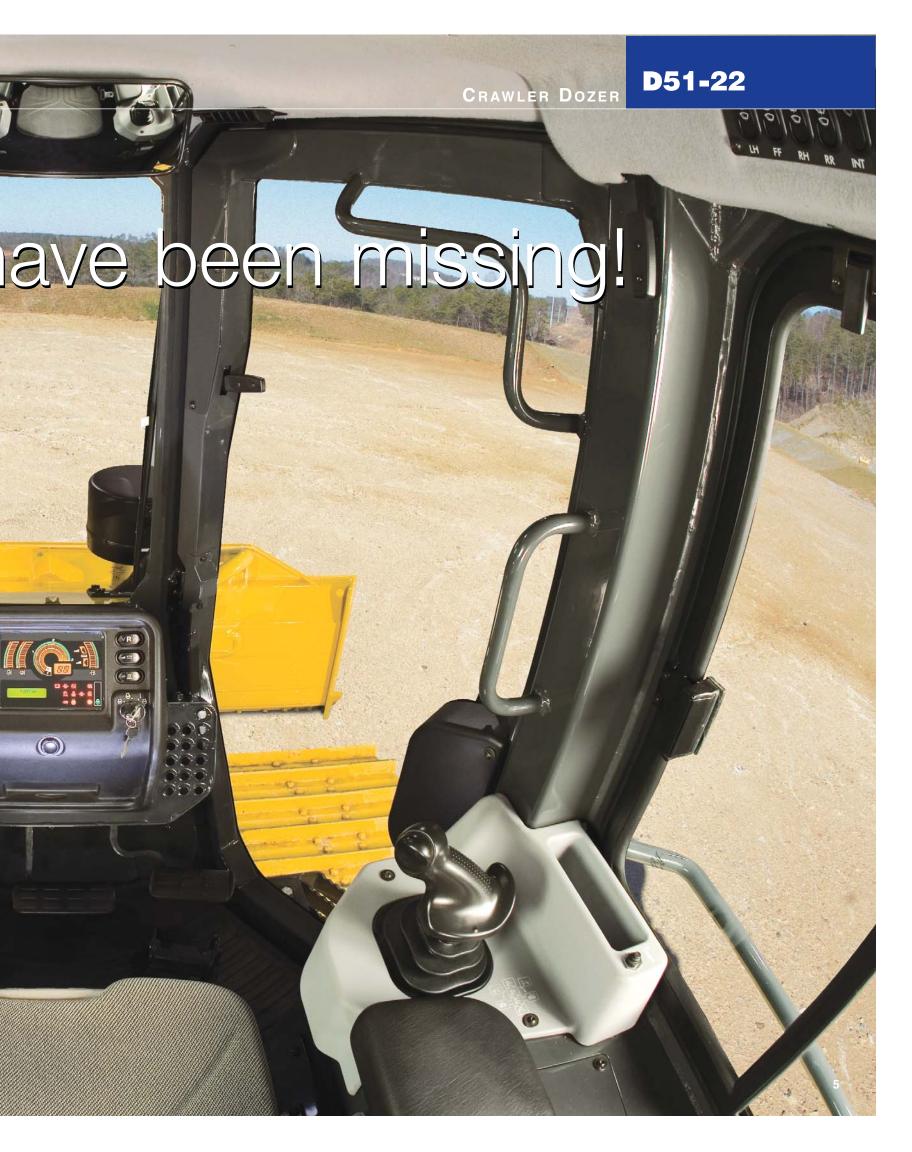
D51-22 CRAWLER DOZER

# See what you have

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### Unrivaled blade visibility

The D51EX/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.



# OPERATOR COMFORT

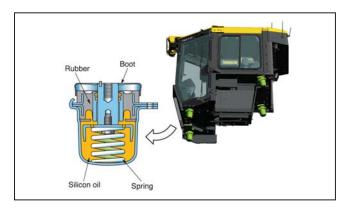


### HST with electronic control

The D51 is equipped with Komatsu-designed Hydrostatic Transmission (HST) that allows for Quick-Shift or variable speed selection. The HST consists of dual-path closedcircuits 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 D51'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 guiet, comfortable operating environment.



# Palm command Proportional Pressure Control (PPC)

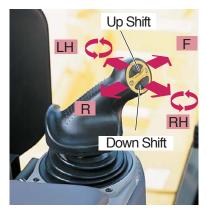
PPC-controlled palm command joystick provides blade control. Combined with the highly reliable Komatsu hydraulic system, precise control is the result.

# 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.

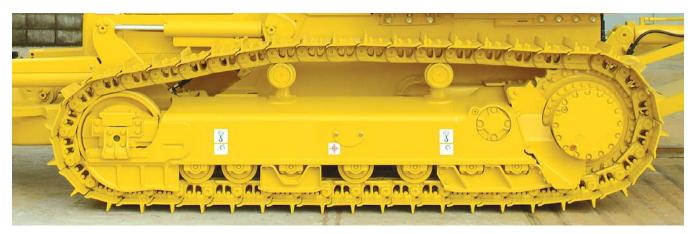
### Palm Command Control System (PCCS)

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



# D51-22

# **DURABILITY FEATURES**



### Heavy-duty undercarriage

Large link, large bushing diameter, and wider sprocket teeth extend undercarriage life. The two-carrier roller design maintains track tension and alignment.

### Monocoque track frame

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

### 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.



### Mainframe

High-rigidity simple hull frame structure combined with thick plates and steel castings provide increased reliability and d



### Modular design

One of the design goals behind the creation of the D51 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.



### **One-piece nose guard**

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

### **Dozer frame**

Steel castings reduce the number of welds, improving C-frame rigidity and strength.

## **D51-22** CRAWLER DOZER

# **PRODUCTIVITY FEATURES**

**Cology & economy-technology 3** This engine is EPA Tier 3, EU Stage 3A and Japan 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 SAA6D107E-1 engine delivers a net output of 97 kW **130 HP** at 2200 rpm. The powerful Komatsu engine incorporated into the D51-22 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.



### 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 D51 extremely maneuverable.

### Long track-on-ground and oscillating track frame

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

# **MAINTENANCE FEATURES**

### Hydraulically-driven swing-up fan

The D51-22 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.

D51-22



### **Remote grease points**

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

### Segmented sprocket teeth

This design reduces servicing time as compared to solid sprocket designs. Each of the nine bolt-on segments can be replaced without splitting the track.

### Adjustment-free parking disc brake

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

#### **D51-22** CRAWLER DOZER

# SPECIFICATIONS



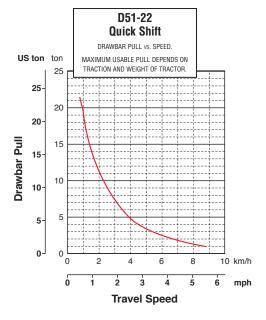
Model	Komatsu SAA6D107E-1*
Туре	. 4-cycle, water-cooled, direct injection
	Turbocharged, air-to-air aftercooled
	107 mm x 124 mm <b>4.21" x 4.88"</b>
Piston displacement	6.69 ltr <b>408 in</b> <sup>3</sup>
Governor	All-speed, electronic
Horsepower	• •
SAE J1995	Gross 99 kW 133 HP
ISO 9249 / SAE J1349	Net 97 kW 130 HP
Hydraulic fan at maximum sp	beed Net 90 kW <b>120 HP</b>
Lubrication system	- ( ,
Method	Gear pump, force lubrication
Filter	Full-flow

\*EPA Tier 3 emissions certified



Dual-path, hydrostatic transmission provides infinite speed changes up to 9.0 km/h 5.6 mph. The variable capacity travel motors allow the operator to select the optimum speed to match specific jobs. Travel control lock lever and neutral switch.

Travel speed (quick shift mode)	Forward	Reverse	
1st	0–3.4 km/h <b>0–2.1 mph</b>	0–4.1 km/h <b>0–2.5 mph</b>	
2nd	0–5.6 km/h <b>0–3.5 mph</b>	0–6.5 km/h <b>0–4.0 mph</b>	
3rd	0–9.0 km/h <b>0–5.6 mph</b>	0–9.0 km/h <b>0–5.6 mph</b>	
Travel speed (variable mode)	Forward	Reverse	
	0–9.0 km/h <b>0–5.6 mph</b>	0–9.0 km/h <b>0–5.6 mph</b>	





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



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:

D51EX-22	 7'10"
D51PX-22	 8'7"

As measured by track marks on the ground at pivot turn.

# UNDERCARRIAGE

Suspension	Oscillating equalizer bar and pivot shaft
Track roller frame	Monocoque, large section,
	durable construction
Rollers and idlers	Lubricated track rollers

#### Lubricated tracks

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.

	D51EX-22	D51PX-22
Number of track rollers (each side)	7	7
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	44	44
Grouser height	54 mm <b>2.1"</b>	54 mm <b>2.1"</b>
Shoe width (standard)	510 mm <b>20"</b>	710 mm <b>28"</b>
Ground contact area	28000 cm <sup>2</sup> 4,340 in <sup>2</sup>	38980 cm² <b>6,042 in²</b>
Ground pressure (with dozer, ROPS cab)	44.2 kPa 0.45 kgf/cm <sup>2</sup> <b>6.40 psi</b>	33.4 kPa 0.34 kgf/cm <sup>2</sup> <b>4.78 psi</b>
Track gauge	1790 mm <b>5'10"</b>	1880 mm <b>6'2"</b>
Length of track on ground	2745 mm <b>9'0"</b>	2745 mm <b>9'0''</b>



### **COOLANT AND LUBRICANT** CAPACITY (REFILLING)

Coolant	9.3 U.S. gal
Fuel tank	71.3 U.S. gal
Engine oil	5.3 U.S. gal
Hydraulic tank 63 ltr	16.6 U.S. gal
Final drive (each side) 4.0 ltr	1.1 U.S. gal



**OPERATING WEIGHT** (APPROXIMATE)

### Tractor weight:

Including ROPS cab, rated capacity of lubricant, coolant, full fuel tank, operator, and standard equipment.

D51EX-22	 11100 kg <b>24,471 lb</b>
D51PX-22	 11500 kg 25,353 lb

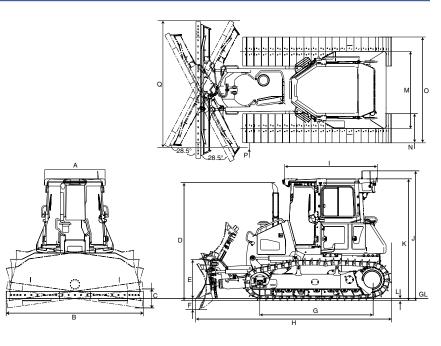
#### Operating weight:

Including power angle tilt dozer, ROPS cab, operator, standard

equipment, rated capacity of lubricant, coolant, and full fuel tank. 

# D51-22

D51EX-2D51PX-2A1280 nm4'2"B3045 nm10'0"3350 nmB'3350 nm11'0"C459 nm1'6"505 nmC'505 nm1'8"D2885 nm9'5"2885 nmD2885 nm9'5"2885 nmF461 nm1'6"461 nmG2745 nm9'0"2745 nmG2745 nm9'0"2745 nmH4800 nm15'8"4800 nmI2245 nm9'0"3177 nmJ3177 nm10'5"3177 nmK2997 nm9'9"2997 nmL55 nm2.2"55 nmN510 nm1'8"710 nmP2300 nm7'6"2590 nmP161 nm6.3"Q2725 nm8'1"2990 nmQ2990 nm9'9"9'9"							
B   3045 mm   10'0"   3350 mm   11'0"     B*   3350 mm   11'0"   —   —     C   459 mm   1'6"   505 mm   1'8"     C*   505 mm   1'8"   —   —     D   2885 mm   9'5"   2885 mm   9'5"     E   1107 mm   3'8"   1107 mm   3'8"     F   461 mm   1'6"   461 mm   1'6"     G   2745 mm   9'0"   2745 mm   9'0"     H   4800 mm   15'8"   4800 mm   15'8"     I   2245 mm   7'4"   2245 mm   7'4"     J   3177 mm   10'5"   3177 mm   10'5"     K   2997 mm   9'9"   2997 mm   9'9"     L   55 mm   2.2"   55 mm   2.2"     M   1790 mm   5'10"   1880 mm   6'2"     N   510 mm   1'8"   710 mm   2'4"     O   2300 mm   7'6"		D51EX-	22	D51PX-22			
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Q* 2990 mm <b>9'9"</b> —	Q	2725 mm	8'11"	2990 mm	9'9"		
	Q*	2990 mm	9'9"	—			



\*Wide blade for D51EX-22

# 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 ltr/min **26.2 U.S. gal/min** at rated engine rpm.

Relief valve setting	27.4 MPa, 280 kg/cm <sup>2</sup> <b>3,983 psi</b>
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Hydraulic cylinders ..... Double-acting, piston type

	Number of cylinders	Bore		
Blade lift	2	90 mm 3.54"		
Blade tilt	1	100 mm 3.94"		
Blade angle	2	90 mm 3.54"		

### Hydraulic oil capacity (refilling):

### Control valves:

3-spool control valve for power angle tilt dozer.

### Positions:

Additional control valve required for ripper.

### Positions:

Ripper lift ...... Raise, hold and lower

## **DOZER EQUIPMENT**

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

	Overall Length	Blade	Blade	Maximum Lift	Maximum Drop	Maximum Tilt	Blade
	With Dozer	Capacity (SAE)	Width x Height	Above Ground	Below Ground	Adjustment	Angle
D51EX-22 PAT	4800 mm	2.7 m³	3045 mm x 1110 mm	1107 mm	461 mm	459 mm	28.5
Standard Blade	<b>15'8''</b>	<b>3.5 yd³</b>	<b>10'0" x 3'8"</b>	<b>3'8"</b>	<b>1'6"</b>	<b>1'6</b> "	
D51EX-22 PAT	4800 mm	2.9 m³	3350 mm x 1110 mm	1107 mm	461 mm	505 mm	28.5
Wide Blade	<b>15'8''</b>	<b>3.8 yd³</b>	11'0" x 3'8"	<b>3'8"</b>	<b>1'6"</b>	<b>1'8"</b>	
D51PX-22 PAT	4800 mm	2.9 m³	3350 mm x 1110 mm	1107 mm	461 mm	505 mm	28.5
Standard Blade	<b>15'8''</b>	<b>3.8 yd³</b>	<b>11'0" x 3'8"</b>	<b>3'8"</b>	<b>1'6"</b>	<b>1'8''</b>	



### STANDARD EQUIPMENT FOR BASE MACHINE

#### ENGINE AND RELATED ITEMS

- · Air cleaner, dry, double element type with caution lamp on monitor
- · Decelerator pedal
- Engine, KOMATSU SAA6D107E-1, net output of 97 kW 130 HP direct injection, turbocharged, air-to-air aftercooler, EPA Tier 3 emissions certified
- Exhaust pipe elbow Fan, hydraulic driven, electronic control,
- reversible
- · Fuel pre-filter (10 micron) and fuel filter (2 micron)
- · Grid heater
- · Intake pipe with precleaner
- · Water separator

### **ELECTRIC SYSTEM**

- Alternator, 60 amp (24 V)
- · Back-up alarm
- Batteries, large capacity 1000 CCA,170Ah
- · 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
- Track frames
- · Track roller guards, center and
- end section
- Sprockets, segmented type
- Track shoe assembly w/sealed and lubricated link assembly:
- -D51EX-22: 510 mm 20" HD single grouser shoes
- -D51PX-22: 710 mm 28" HD single grouser shoes

### **GUARDS AND COVERS**

- Crankcase guard and underguard
- Engine hood and side panels
- **ROPS/FOPS\***
- Sprocket inner guard
- **OPERATOR ENVIRONMENT**
- 12 amp (12V) power port (cab only)
- Cab seat, high back fabric, suspension type
- Canopy seat, high back vinyl, suspension type
- Cigarette lighter (24 V, cab only)
- Cup holder, lunch box holder
- Electronic monitor panel with on-board diagnostics
- Foot rest, high mounted
- Horn
- Provision for radio (cab only)
- Rearview mirror
- Seat belt, 76 mm 3" wide retractable

#### • Filler cap locks and cover locks Instrument panel lock and cover

for blade control

DOZER ASSEMBLY

Control (PPC)

Power angle tilt dozer assembly, inside

Accumulator for Proportional Pressure

· Palm Command Control System (PCCS)

with Proportional Pressure Control (PPC)

arms (EX: 3045 mm 10' blade,

HYDRAULICS AND CONTROLS

PX: 3350 mm 11' blade)

Hydraulics for PAT dozer

(canopy only) OTHER STANDARD EQUIPMENT

VANDALISM PROTECTION

- Grease gun holder
- Hitch, standard type
- High altitude arrangement (no fuel adjustment up to 3000 m 9,843 ft)
- KOMTRAX function Level 2
- Lighting package (3 front, 2 rear cab/canopy)
- Marks and plates, English
- Pullhook, front

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

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

### **OPTIONAL EQUIPMENT**

### TRACK SHOE ASSEMBLY WITH SEALED AND LUBRICATED LINK ASSEMBLY

D51EX-22

### - 560 mm 22" single grouser, HD link TRACK RAIL ASSEMBLY WITH **ABRASION RESISTANT (AR) BUSHINGS** AND SEALED AND LUBRICATED LINK

- ASSEMBLY D51FX-22
- 510 mm 20" single grouser, HD link with AR bushings

### - 560 mm 22" single grouser, HD link with AR bushings

- D51PX-22
- 720 mm 28" single grouser, HD link with AR bushings

### **DOZER ASSEMBLY**

 D51EX-22 – 3350 mm 11' blade TRACK ROLLER GUARDS

### Track roller guards, segmented, full

length

### **OPERATOR ENVIRONMENT**

- · Cab machine
- Seat, suspension type, fabric, high back
- Seat, suspension type, fabric low back
- Seat, air suspension type, fabric high back
- Canopy machine
- Seat, suspension type, vinyl, low back

### DRAWBAR

#### Long drawbar

### REAR EQUIPMENT AND HYDRAULICS

- Ripper, multi-shank (D51EX-22 only)
- Rear, hydraulics (D51EX/PX-22)

### **ROPS CANOPY AND ROPS CAB**

### EQUIPMENT

ROPS canopy with lower heater ROPS cab (includes air conditioner with heater, defroster, pressurizer)

### - Optional radio, AM/FM, cassette

### **OPERATOR ENVIRONMENT**

Forestry guards for cab and canopy

AESS745-03

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Printed in USA

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