

KOMATSU®

D61EXi-24 **D61PXi-24** *Tier 4 Final Engine*

CRAWLER DOZER



Photos may include optional equipment.



NET HORSEPOWER

168 HP @ 2200 rpm
125 kW @ 2200 rpm

OPERATING WEIGHT

D61EXi-24: 41,094 lb 18640 kg
D61PXi-24: 43,167 lb 19580 kg

BLADE CAPACITY

D61EXi-24: 4.41 yd³ 3.37 m³
D61PXi-24: 4.98 yd³ 3.81 m³

WALK-AROUND



Next Generation Intelligence

No Cables

No coiled cables between machine and blade.

No Climbing

GNSS antenna and mast removed from blade.

No Connections

No daily connections required between machine and blade.

Innovative

Automated blade control from rough dozing to finish grade.

Integrated

Standard factory installed machine control system.

Intelligent

New dozing mode, load control performance features.



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INNOVATIVE. INTEGRATED. INTELLIGENT.

Standard Intelligent Machine Control
Standard factory installed integrated 3D GNSS intelligent machine control system.

Improved Machine Control
Up to 8% more efficient dozer operation than comparable aftermarket machine control systems in start to finish grading tests.

Factory Installed Machine Control Components

Machine control components are factory installed and designed as an integral part of the base machine for improved durability.

Komatsu Quality

Machine control components and system validated to Komatsu's rigorous quality & durability standards.

Industry Standard Compatibility

Machine control system makes use of common industry design data file norms and supports typical base station communication.

Simple Operator Interface

Simple touch screen control box with multi-color customizable display.

3D GNSS Machine Control Standard

All on-machine components standard including control box, GNSS receiver/radio, GNSS antenna, and enhanced inertial measuring unit sensor.

Finish Grade Performance

Enhanced sensor package and intelligent logic provides for finish grade accuracy in an integrated system without traditional blade mounted sensors.

Enhanced Inertial Measuring Unit (IMU+)

Chassis mounted enhanced inertial measuring unit (IMU+) and intelligent logic provides for finish grade accuracy without blade mounted sensors.

Cab Top GNSS Antenna

Load control intelligence controls blade elevation to improve productivity and minimize track slip by adjusting blade load. 1.0' from grade or 0.1' from grade – you can run in auto mode.

Intelligent Dozing Mode Settings

Operators are able to select between 4 distinct machine control operating modes to optimize performance to the application whether cutting, spreading, or other.

Operator Selectable Load Settings

Machine control load settings can be adjusted between presets to tailor response to material conditions.

New Komatsu SAA6D107E-3, variable geometry, turbocharged and aftercooled, 6.8 liter diesel engine is EPA Tier 4 Final emissions certified.

Fluid Neutral or Better

Fuel & DEF TOTAL consumption is less than the fuel consumed by the prior model.

New Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR) systems reduce particulate matter and NOx, while providing automatic regeneration that does not interfere with daily operation.

New higher performance Komatsu Variable Geometry Turbocharger (KVGT) uses a hydraulic actuator to provide optimum air flow under all speed and load conditions.

New Komatsu auto idle shutdown helps reduce excessive idle time.

Rear Hydraulics (Standard)

Rear View Monitoring System (Standard)

New Large Color Monitor:

- Easy-to-read large 7" high-resolution multi-color monitor
- Easy-to-use multiple tabular menus
- Easy-to-use onboard diagnostics that don't require a laptop
- Ecology guidance

Integrated ROPS Cab Features:

- Large, quiet, pressurized cab
- Excellent visibility with integrated ROPS structure
- Air suspension high-capacity heated seat

New high-engine-RPM (H) mode helps maintain ground speed during heavy blade load applications.

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

Triple labyrinth final drive provides additional protection for the final drive floating seals.

D61EXi/PXi-24

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- The diagram illustrates the three stages of a bulldozer's operation in a sequence from left to right:
- 1. Approach:** The bulldozer is shown moving towards a pile of earth. The blade is lowered and positioned just in front of the pile.
 - 2. Push:** The bulldozer is shown pushing the pile of earth forward. The blade is in contact with the earth, and a large blue arrow points upwards from the blade, indicating the force applied.
 - 3. Retraction:** The bulldozer is shown moving away from the pile of earth. The blade is lifted, and a large blue arrow points downwards from the blade, indicating the retraction of the blade.

Tailor blade loads to material conditions.



Cut and carry

Long, shallow cuts



Cutting

Front to back dozing



Spreading

Spreading a pile of material



Simple grading

Severe grade breaks, transitions



Light

Low traction application, low blade load due to material characteristics



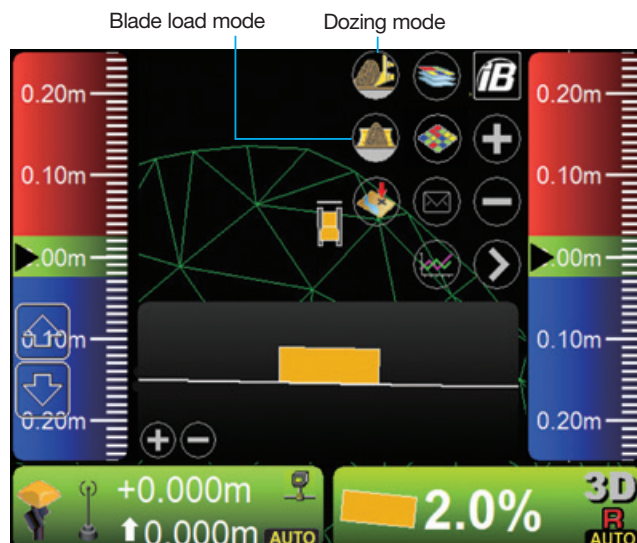
Normal

Typical operation



Heavy

High traction application, high blade load due to material characteristics



Advanced Sensor Technologies For Performance

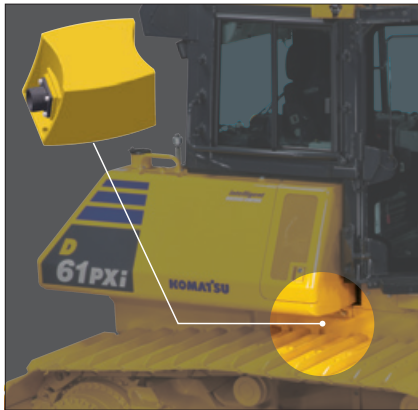
GNSS antenna

Mounted to top of cab to minimize damage – not on the blade.



Enhanced inertial measuring unit (IMU+)

Chassis mounted IMU+ and intelligent logic enables accurate grading performance without blade mounted sensors.

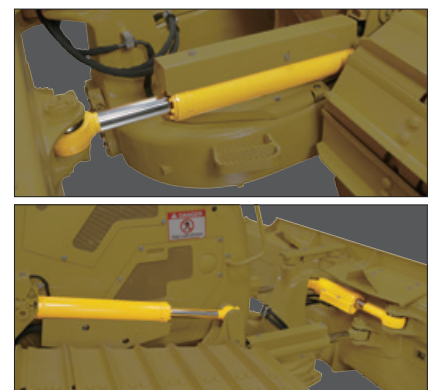


INTELLIGENT MACHINE CONTROL SYSTEM



Stroke sensing hydraulic cylinders

Robust stroke sensing hydraulic cylinders employ proven Komatsu sensor technologies for accurate finish grade performance.



D61EXi/PXi-24

CONTROL BOX

The screenshot displays the control box interface with various controls and data. The interface is divided into several sections:

- Top Left:** A vertical scale with markings for 0.20m, 0.10m, and 0.00m. Below the scale are two buttons labeled 0.10m and 0.20m.
- Top Right:** A vertical scale with markings for 0.20m, 0.10m, and 0.00m. Below the scale are two buttons labeled 0.10m and 0.20m.
- Center:** A large display area showing a 3D model of a structure (likely a bridge or tower) with various components labeled with numbers 1 through 14. A yellow rectangular area is visible in the center of the display.
- Bottom Left:** A green area containing a 3D model of a structure and a large display showing "0.000m" and "0.000m". Below the display are two buttons labeled "AUTO".
- Bottom Right:** A green area containing a large display showing "2.0%" and "3D". Below the display are two buttons labeled "AUTO".

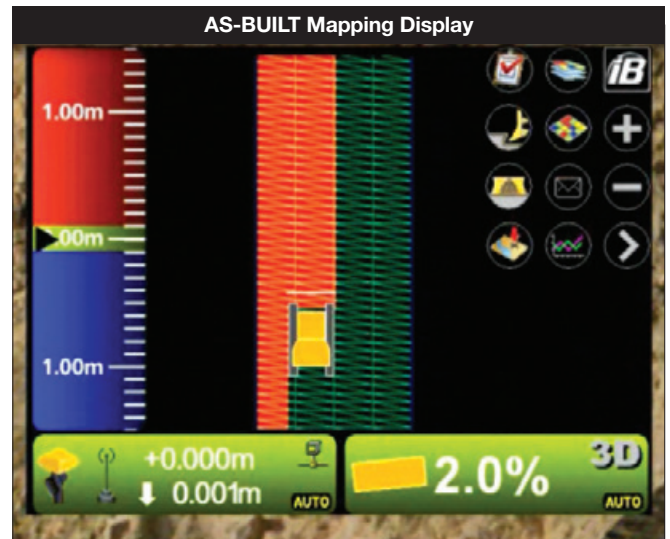
The interface also includes a legend on the right side with 14 numbered items:

- Left window
- Main window
- Lower window
- Dozing mode selection
- Blade load selection
- Take a top shot
- Toggle AS-BUILT mode
- Start/Stop AS-BUILT updates
- Sitelink messaging
- Sitelink activity
- IB logo key
- Zoom in key
- Zoom out key
- Telescope main view

Below the screenshot, a list of 14 numbered items provides a detailed description of the controls and data shown in the interface:

- Elevation control key
- Slope control key
- GNSS status
- Radio status
- Cut / Fill offset
- Cut / Fill reading
- Tilt of blade
- Design cross-slope
- Type of control
- AUTO indicator
- Back Grade mode indicator
- 3D
- Zoom in key
- Zoom out key

This is a typical main screen of control box.



Auto/manual switch

The automatic control of the blade can be switched easily to manual by operating the switch lever of the work machine.



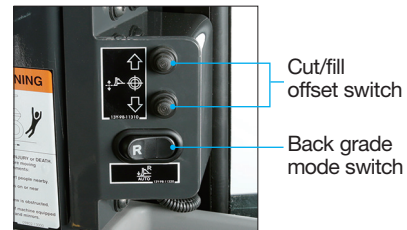
Function switches

Cut/fill offset switch

The cut/fill offset setting can be adjusted quickly by hand.

Back grade mode switch

The back grade mode can be quickly turned on or off.

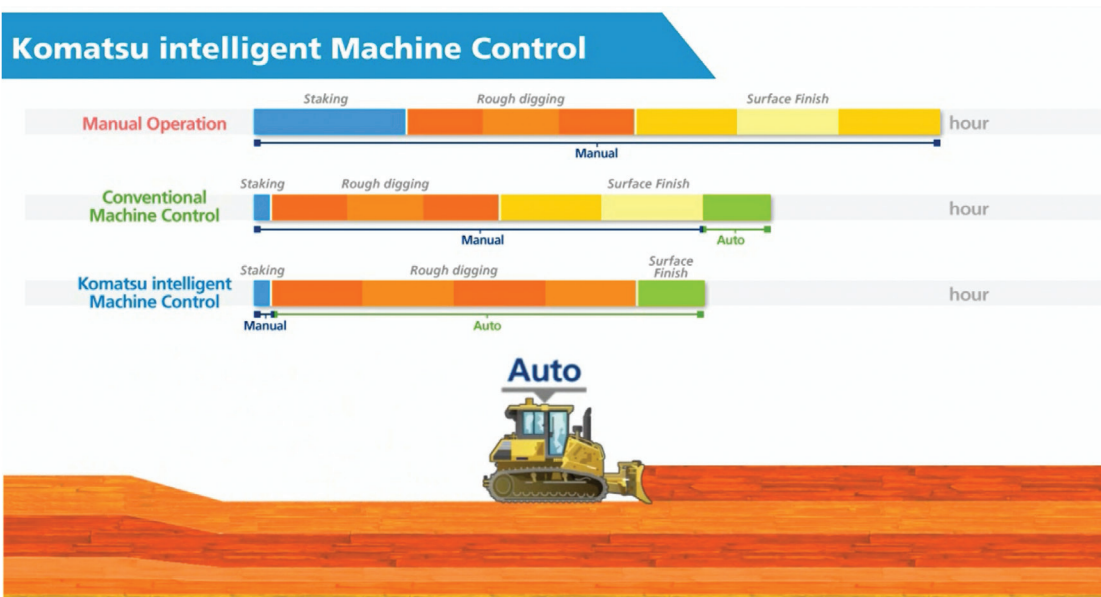


Improved Machine Control Efficiency

Up to 8% more efficient dozer operation than typical aftermarket machine control systems with Komatsu's intelligent machine control. This is in addition to the substantial savings standard machine control already offers over manual staking and grading.

As-Built Surface Track Mapping

Cab top GNSS antenna enables accurate as-built surface data collection by measuring actual elevations as machine continuously tracks in operation. Progress can be measured in real time with operator selectable settings.



PERFORMANCE FEATURES

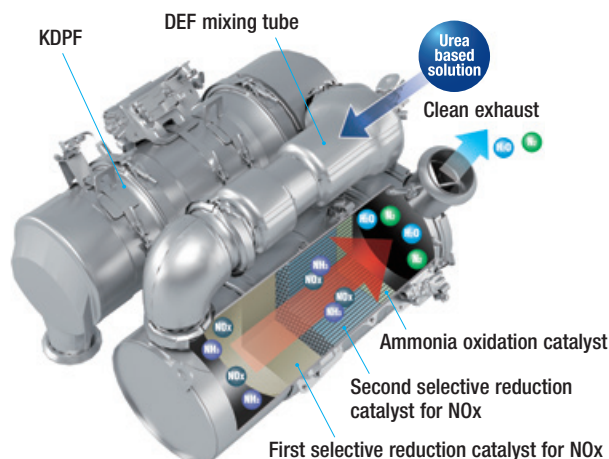
KOMATSU NEW ENGINE TECHNOLOGIES

Komatsu's New Emission Regulations-compliant Engine

New regulations effective in 2014 require the reduction of NOx emissions. In addition to refining the Tier 4 Interim technologies, Komatsu developed a new Selective Catalytic Reduction (SCR) device in-house.

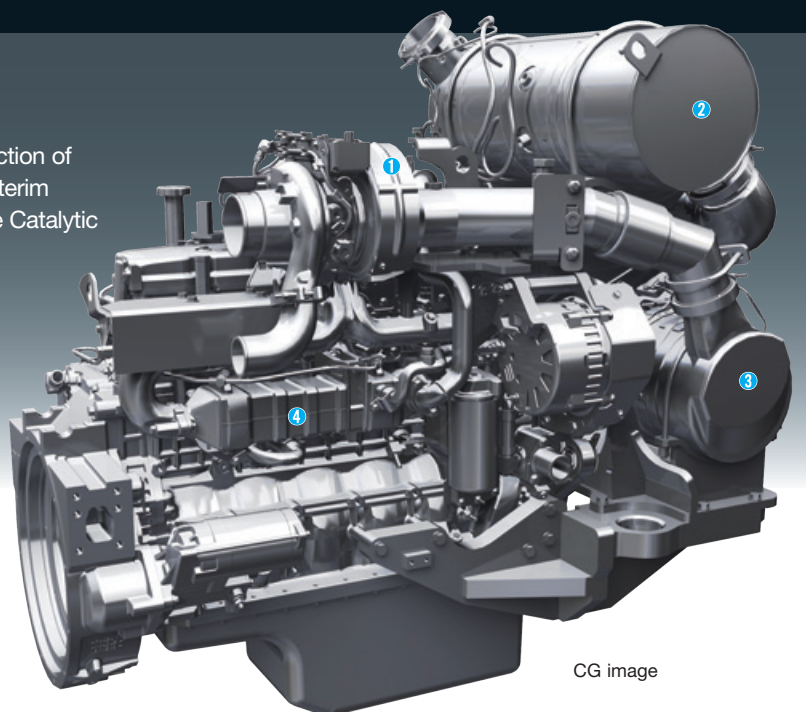
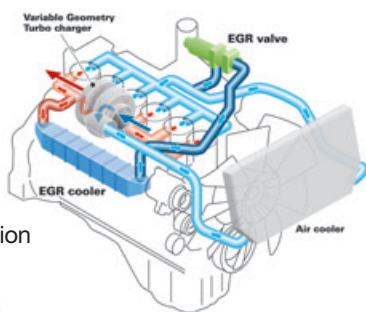
Technologies Applied to the New Engine Heavy-Duty Aftertreatment System

This new system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR NOx reduction system injects the correct amount of DEF at the proper rate, transforming NOx into non-toxic water (H₂O) and nitrogen gas (N₂).



Heavy-Duty Cooled Exhaust Gas Recirculation (EGR) System

The system recirculates a portion of exhaust gas into the air intake and lowers combustion temperatures, thereby reducing NOx emissions. EGR gas flow has been decreased for Tier 4 Final with the addition of SCR technology. The system achieves a dynamic reduction of NOx, while helping reduce fuel consumption below Tier 4 Interim levels.



CG image

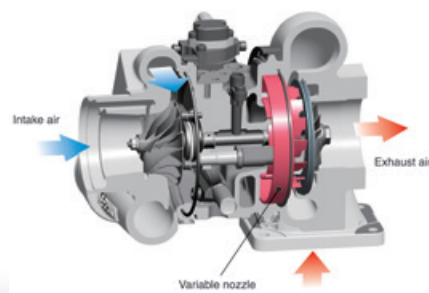
- ① Komatsu Variable Geometry Turbocharger (KVGT)
- ② Selective Catalytic Reduction (SCR)
- ③ Komatsu Diesel Particulate Filter (KDPF)
- ④ Exhaust Gas Recirculation (EGR) cooler

Advanced Electronic Control System

The electronic control system performs high-speed processing of all signals from sensors installed in the vehicle, providing total control of equipment in all conditions. Engine condition information is displayed via an on-board network to the monitor inside the cab, providing necessary information to the operator. Additionally, managing the information via KOMTRAX helps customers keep up with required maintenance.

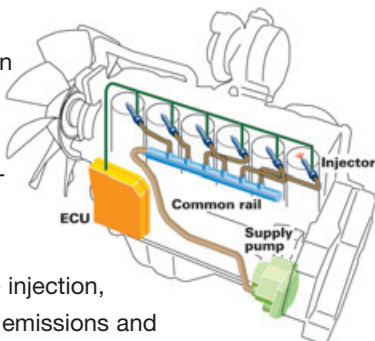
Komatsu Variable Geometry Turbocharger (KVGT) system

The KVGT system features proven Komatsu design hydraulic technology for variable control of air-flow and supplies optimal air according to load conditions. It provides better exhaust temperature management. The Tier 4 final version has an improved propeller design for increased performance.



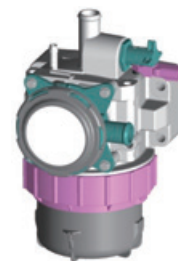
Heavy-Duty High-Pressure Common Rail (HPCR) Fuel Injection System

The system is designed to achieve an optimal injection of high-pressure fuel by means of computerized control, providing close-to-complete combustion to reduce PM emissions. The system uses high pressure injection, thereby reducing both PM emissions and fuel consumption over the entire range of engine operating conditions. The Tier 4 Final engine has advanced fuel injection timing for reduced fuel consumption and lower soot levels.



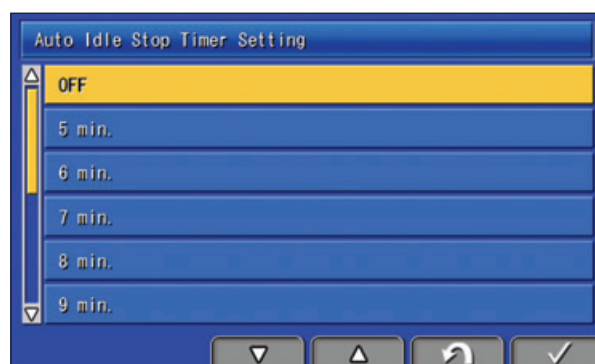
Komatsu Closed Crankcase Ventilation (KCCV)

The KCCV efficiency is significantly increased from previous models from approximately 50% to 95% efficiency.



Komatsu Auto Idle Shutdown

Komatsu auto idle shutdown automatically shuts the engine down after idling for a set period of time to reduce unnecessary fuel consumption and exhaust emissions. The amount of time before the engine is shutdown can be programmed easily from 5 to 60 minutes.



Redesigned combustion chamber at top of piston

The combustion chamber at the top of the piston has an optimized shape designed to improve combustion and further reduce NOx, particulate matter, fuel consumption and noise.



PRODUCTIVITY & FUEL ECONOMY FEATURES

HYDROSTATIC TRANSMISSION (HST) CONTROL SYSTEM

Hydrostatic Transmission (HST) control system

The HST controller monitors engine output and work load. It controls HST pump and motor displacement to provide the optimum speed and drawbar pull. Full power to both tracks during turns or counter-rotation makes the D61EXi/PXi-24 extremely maneuverable.



Fuel Efficiency

The efficient HST control system can reduce fuel consumption.

Hydraulically Driven Cooling Fan

The engine cooling fan's speed is electronically controlled. Fan speed depends on engine coolant and oil temperatures. The fan will only rotate as fast as necessary to adequately cool the machine's fluid. This system increases fuel efficiency, reduces operating noise levels and uses less horsepower than a belt-driven fan.

Long Track-On-Ground and Oscillating Track Frame

Long machine track-on-ground and oscillating track frames improve stability and grading/dozing performance.

Selectable Working Mode

P mode is designed for powerful operation and maximum production. E mode is designed for general dozing applications, providing adequate speed and power, while saving energy. For fuel reduction and energy saving, the monitor panel allows the operator to switch the working mode easily, depending on the work at hand.

P mode (Power mode)

With P mode, the engine runs full power, allowing the machine to perform the work requiring large production, heavy loads and uphill work.

E mode (Economy mode)

With E mode, the engine uses enough power for the work, without delivering unnecessary power. This mode enables energy saving operation. It is ideal on hard or rough surfaces that often cause shoe slip, and work requiring less power, such as downhill dozing, leveling and light-load work.

New H mode (high engine idle speed mode)

This setting allows subtle changes in load to be detected, which is tailor-made for power-intensive work. Compared to P mode, the engine high-idle speed is higher in H mode.

PAT DOZER

PAT Dozer with Adjustable Pitch

A power angle power tilt dozer blade with adjustable blade pitch system is available. This blade is available for the D61EXi/PXi-24 machines. The hydraulic blade tilt, angling function (and manually adjustable blade pitch) add versatility and productivity in a variety of applications.

**Increased Wear Life Blade Skin**

The hardness of the blade skin has been improved for increased wear life.

Unrivalled Blade Visibility

The D61EXi/PXi-24 incorporates Komatsu's super-slant nose design. Komatsu's innovative design provides excellent blade visibility for improved machine control and increased efficiency and productivity.



CONTROL FEATURES

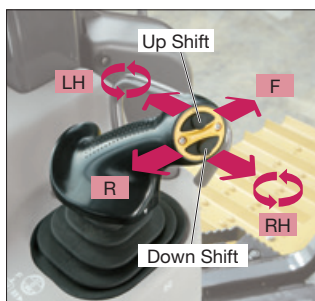


Palm Command Control System (PCCS) Levers

Komatsu's ergonomically-designed PCCS handles create an operating environment with complete operator control.

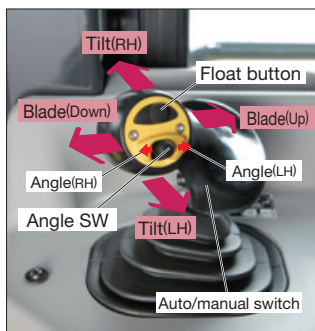
PCCS

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



Electronic Controlled Hydraulic System

The electronic controlled, palm commanded joystick provides precise blade control. New blade angling switch operation provides easier and predictable blade control.



Hydrostatic Transmission with Electronic Control

The D61EXi/PXi-24 is equipped with Komatsu-designed HST that allows for quick-shift or variable speed selection. The HST features 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. An electronic fuel control dial controls engine speed.

One-Pedal Design (Decelerator/Brake Pedal) Controls Speed, During Operation

Machine operation is simple due to brake function integration into the decelerator pedal.

Machine travel speed can be controlled using one pedal. The pedal function can be changed by a mode selector switch.

Decelerator mode: The pedal can decelerate engine rpms and vehicle travel speed. It can be used for all applications.

Brake mode: The pedal can decelerate vehicle travel speed while maintaining high-engine speed. This mode can be helpful to maintain work-equipment speed, while using the brake function.



WORKING ENVIRONMENT



Integrated ROPS (ISO 3471) Cab

The D61EXi/PXi-24 has an integrated ROPS (ISO 3471) cab. High rigidity and superb sealing performance sharply reduce noise and vibration for the operator and discourage dust from entering the cab. In addition, side visibility is increased because external ROPS (ISO 3471) structure and posts are not required.



Comfortable Ride with Heated Operator Seat

The operator seat has adjustable lumbar support, tilt and an electric heater. It is easy to adjust to the operator's shape. Also, standard seat heat makes it possible to work comfortably in the winter.



Comfortable Ride with Cab Damper Mounting

The D61EXi/PXi-24's cab mount uses a cab damper system that provides shock and vibration absorption conventional mounting systems cannot 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.

Auxiliary Input Jack & Two Electrical Outlets

By connecting an auxiliary device to this plug input, the operator can play audio from a mobile device through the machine's sound system. Two DC 12 volt electrical outlets provide a power source for a radio or other equipment.



Two DC 12 V electrical outlets

Auxiliary input jack

ADDITIONAL OPERATOR CONVENIENCE EQUIPMENT

Rear view monitor 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.



Secondary engine shutdown switch

A secondary switch has been added at the side of the front console to shut down the engine.



RELIABILITY & MAINTENANCE FEATURES

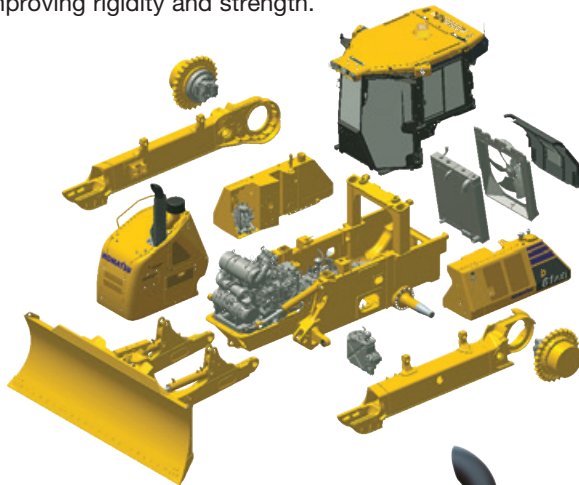
Excellent Reliability & Durability

Parallel Link Undercarriage System (PLUS)

Komatsu's PLUS provides less downtime and longer wear, with up to 40% lower undercarriage maintenance costs. Rotating bushings eliminate the cost and downtime of bushing turns, and strengthened rollers and links increase wear life by up to 100 percent. With PLUS, individual links can be replaced with common track tools.

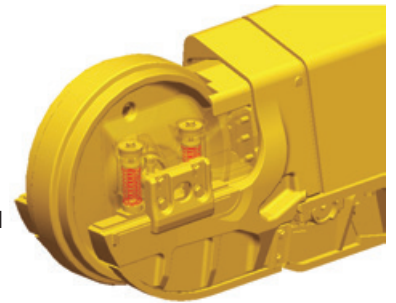
Modular design

One of the design goals behind the creation of the D61EXi/PXi-24 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 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.



Easy Maintenance

Planned maintenance and daily checks are the only way to ensure long service life from equipment. That's why Komatsu designed the D61EXi/PXi-24 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Hydraulically-driven swing-up fan

The D61EXi/PXi-24 utilizes a swing-up fan with a gas strut-assisted lift system to provide easy access to the (side-by-side) radiator, oil cooler and charge air cooler. The hydraulic fan has a cleaning mode which can be used for periodic cooler cleaning.



TECHNOLOGY FEATURES



Large Multi-Lingual High Resolution LCD Monitor

A large, user-friendly color monitor provides easy-to-understand information for the operator. Excellent screen visibility is achieved with a high resolution LCD monitor that is easy to read at various angles and lighting conditions. Easy-to-operate switches and function keys simplify multi-function operations. The monitor displays data in 26 languages.



Multi-Monitor with Troubleshooting Function to Minimize Down Time

Various meters, gauges and warning functions are centrally arranged on the multi-monitor. The monitor simplifies start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities occur. In addition, countermeasures are indicated in 4 levels to help prevent major machine issues. Replacement times for required planned maintenance services are also indicated.

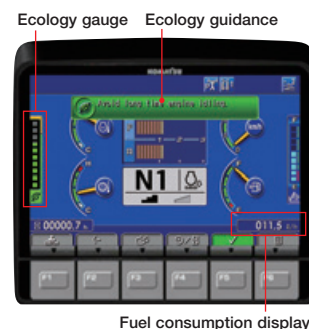


Energy Saving Operation

Ecology guidance

In order to support efficient operation, the following four messages are displayed for fuel saving operation. These can be disabled by the operator, if desired.

- 1) Avoid Excessive Engine Idling
- 2) Use Economy Mode to Save Fuel
- 3) Avoid Hydraulic Relief Pressure
- 4) Avoid Over Load



Ecology gauge

To help the operator perform more efficiently and minimize energy consumption, an easy-to-read "ecology gauge" is displayed on the left of the multi-monitor screen.

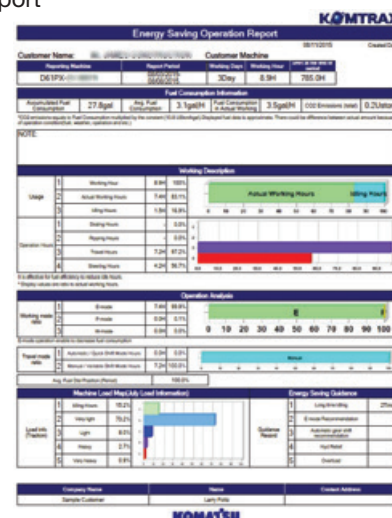
Fuel consumption display

Average fuel consumption during the day is displayed and updated every 10 seconds.

Ecological Operation Report for Assistance

KOMTRAX® is Komatsu's remote equipment and fleet monitoring system. Wireless technology and a secure Web-based application offers the information needed to make the best possible operation and management decisions. From location, actual hours worked, and fuel consumption to maintenance monitoring, abnormality codes, and load frequency, KOMTRAX creates reports that are easy to read and understand. The new D61EXi/PXi-24 adds the following new information for fuel consumption reduction.

- Guidance to improve fuel consumption
- Ecological operation report
- Report operation hours by operation mode (E, P, or H mode)



KOMATSU PARTS & SERVICE SUPPORT



Every new Komatsu Tier 4 Final construction machine is covered.

The Komatsu CARE program covers all new Komatsu Tier 4 Final construction equipment, whether rented, leased or purchased. For the first 3 years or 2,000 hours, whichever occurs first, you'll receive:

- Regular service at 500, 1,000, 1,500 and 2,000-hr. intervals
- DEF tank breather element replacement at 1,000 hours
- DEF and CCV filters replacement at 2,000 hours
- 50-point inspection by factory-trained technician at each scheduled interval
- Technician labor
- Fluids, oils, coolant, filters, SCR screen, tank breather and parts
- Technician travel to and from your equipment location

Plus two complimentary scheduled KDPF exchanges and SCR system service for 5 years-no hours limits.*

Service will be performed by a Komatsu Distributor and only Komatsu genuine fluids and filters will be used.

Komatsu CARE® services are available from every Komatsu Distributor in the U.S. and Canada.



Komatsu CARE® – Extended Coverage

- Extended Coverage can provide peace of mind by protecting customers from unplanned expenses that effect 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



* Some exclusions apply. Please contact your Komatsu distributor for specific program details.



Komatsu Parts Support

- 24/7/365 to meet 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 significant cost savings



Komatsu Oil and Wear Analysis (KOWA)

- KOWA detects fuel dilution, coolant leaks, and measures wear metals
- Proactively maintain equipment
- Maximize availability and performance
- Identify potential problems before they lead to major repairs
- Reduce life cycle cost by extending component life

KOMTRAX EQUIPMENT MONITORING



GET THE WHOLE STORY WITH
KOMTRAX®

✓ 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 **lowering owning and operating cost**
- KOMTRAX is **standard** equipment on all Komatsu construction products

✓ 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 is due** 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



KOMTRAX®

For construction and compact equipment.

KOMTRAX Plus™

For production and mining class machines.

SPECIFICATIONS



ENGINE

Model..... Komatsu SAA6D107E-3*
 Type..... 4-cycle, water-cooled, direct injection
 Aspiration..... Komatsu Variable Geometry
 Turbocharged, air-to-air aftercooled, cooled EGR
 Number of cylinders..... 6
 Bore x stroke..... 107 mm x 124 mm **4.21" x 4.88"**
 Piston displacement..... 6.69 ltr **408 in³**
 Governor..... All-speed and mid-range, electronic
 Horsepower
 SAE J1995..... Gross 127 kW **170 HP**
 ISO 9249 / SAE J1349..... Net 125 kW **168 HP**
 Rated rpm..... 2200 rpm
 Fan drive type..... Hydraulic
 Lubrication system
 Method..... Gear pump, force lubrication
 Filter..... Full-flow

*EPA Tier 4 Final emissions certified

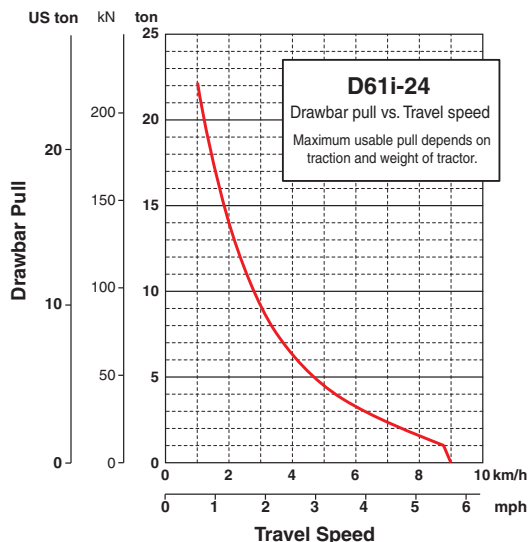


HYDROSTATIC TRANSMISSION

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 0-2.1 mph	0-4.1 km/h 0-2.5 mph
2nd	0-5.6 km/h 0-3.5 mph	0-6.5 km/h 0-4.0 mph
3rd	0-9.0 km/h 0-5.6 mph	0-9.0 km/h 0-5.6 mph
Travel speed (variable mode)	Forward	Reverse
	0-9.0 km/h 0-5.6 mph	0-9.0 km/h 0-5.6 mph

*Quick shift speeds are adjustable in the monitor.



FINAL DRIVES

In-shoe mounted axial piston type travel motors with integrated two-stage planetary gear reduction. Compact in-shoe mount reduces risk of damage by debris. Bolt-on sprocket for easy displacement.



STEERING SYSTEM

PCCS joystick control for all directional movements. Pushing the joystick forward results in forward machine travel, while pulling it backward 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. HST eliminates steering clutches and brakes, providing smooth, powerful turns. Fully electronic control enables smooth operation. The PCCS utilizes shift buttons to increase and decrease speed.

Minimum turning radius

D61EXi-24	2.1 m 83"
D61PXi-24	2.3 m 91"



UNDERCARRIAGE

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 adjusted easily with grease gun.

	D61EXi-24	D61PXi-24
Number of track rollers (each side)	8	8
Type of shoes (standard)	Single grouser	Single grouser
Number of shoes (each side)	46	46
Grouser height	mm in 57.5 2.3"	57.5 2.3"
Shoe width (standard)	mm in 600 24"	860 34"
Ground contact area	cm ² 37980	54440
	in² 5,887	8,438
Ground pressure	kPa 47.8	35.0
(with dozer, ROPS cab)	kgf/cm ² 0.49	0.36
	psi 6.97	5.12
Track gauge	mm ft.in 1900 6'3"	2130 7'0"
Length of track on ground	mm ft.in 3165 10'5"	3165 10'5"



SERVICE REFILL CAPACITIES

Coolant	45 ltr	11.9 U.S. gal
Fuel tank	372 ltr	98.3 U.S. gal
Engine oil	27 ltr	7.2 U.S. gal
Hydraulic tank	101 ltr	26.7 U.S. gal
Final drive (each side)	8.1 ltr	2.2 U.S. gal
DEF tank	20.6 ltr	5.4 U.S. gal



OPERATING WEIGHT (APPROXIMATE)

Tractor weight:
 Including ROPS (ISO 3471) cab, C frame for PAT dozer, rated capacity of lubricant, coolant, full fuel tank, operator and standard equipment.

D61EXi-24	17650 kg 38,911 lb
D61PXi-24	18440 kg 40,653 lb

Operating weight:

Including PAT dozer, ROPS (ISO 3471) cab, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank.

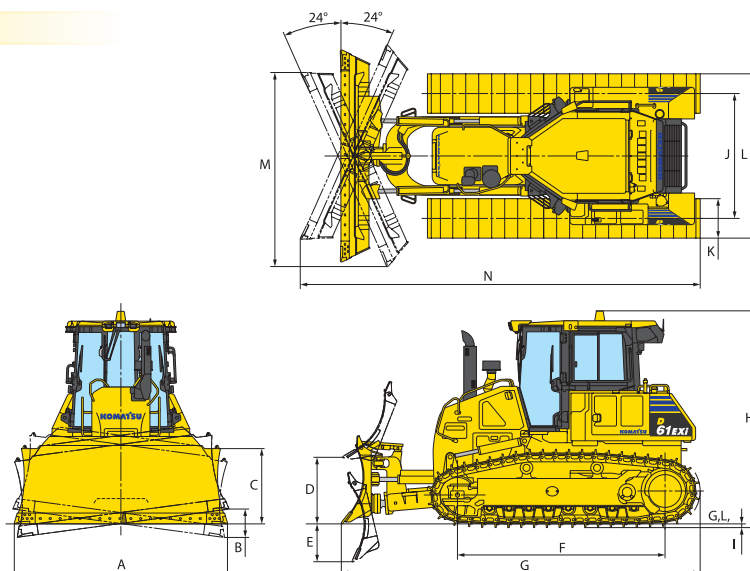
D61EXi-24	18640 kg 41,094 lb
D61PXi-24	19580 kg 43,167 lb



DIMENSIONS

	D61EXi-24	D61PXi-24
A	3250 mm 10'8"	3860 mm 12'8"
B	435 mm 1'5"	515 mm 1'8"
C	1195 mm 3'11"	1155 mm 3'9"
D	1025 mm 3'4"	1025 mm 3'4"
E	580 mm 1'11"	580 mm 1'11"
F	3165 mm 10'5"	3165 mm 10'5"
G	5480 mm 17'12"	5480 mm 17'12"
H	3340 mm 11'	3340 mm 11'
I	57.5 mm 2"	57.5 mm 2"
J	1900 mm 6'3"	2130 mm 7'0"
K	610 mm 2'0"	860 mm 2'10"
L	2500 mm 8'2"	2990 mm 9'10"
M	2980 mm 9'9"	3530 mm 11'7"
N	6100 mm 20'0"	6220 mm 20'5"

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

	Number of cylinders	Bore
Blade lift	2	100 mm 4"
Blade tilt	1	120 mm 5"
Blade angle	2	110 mm 4"

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



DOZER EQUIPMENT

	Overall Length With Dozer mm ft.in	Blade Capacity m ³ yd ³	Blade Width x Height mm ft.in	Max. Lift Above Ground mm ft.in	Max. Drop Below Ground mm ft.in	Max. Tilt Adjustment mm ft.in
D61EXi-24	5480	3.4	3250 x 1195	1025	580	435
Power Angle Tilt Dozer	18'0"	4.5	10'8" x 3'11"	3'4"	1'11"	17"
D61PXi-24	5480	3.8	3860 x 1155	1025	580	515
Power Angle Tilt Dozer	18'0"	5.0	12'8" x 3'9"	3'4"	1'11"	20"

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



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
- Curved exhaust pipe
- Decelerator pedal (single pedal)
- Engine hood
- Engine intake centrifugal precleaner
- Engine, swing open side cover
- Engine shutdown secondary switch
- Front pull hook
- High mount foot rests
- Horn, warning
- Hydraulic driven radiator cooling fan with reverse clean mode
- Hydraulics for rear equipment
- intelligent Machine Control
- KOMTRAX®
- Komatsu Diesel Particulate Filter (KDPF)
- Komatsu Variable Geometry Turbocharger (KVGIT)
- Locks, filler caps and covers
- 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
 - 610 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
- Track roller guard, full length

Multi-shank ripper

Weight..... 1757 kg **3,874 lb**
 Beam length..... 2170 mm **7'1"**
 Maximum lift above ground..... 560 mm **1'10"**
 Maximum digging depth 665 mm **2'2"**



ALLIED MANUFACTURER'S ATTACHMENTS (SHIPPED LOOSE)

- Guarding - Komatsu (Ken Garner)
 - Front sweeps 260 kg **573 lb**
 - Hinged cab side screens 44 kg **97 lb**
 - Hinged cab rear screen 43 kg **95 lb**
 - Rear fan guard (HD) 12 kg **27 lb**
- Hydraulic winch - Allied H6H
1356 kg **2,990 lb**

AESS894-00

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AD12(Electronic View Only)

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Note: All comparisons and claims of improved performance made herein are made with respect to the prior Komatsu model unless otherwise specifically stated.

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