KOMATSU

D61EX/EXi/PX/PXi-24



Crawler dozer

Net horsepower
168 HP @ 2,200 rpm
(125 kW @ 2,200 rpm)

Operating weight
D61EX-24: 40,830 lbs. (18,520 kg)
D61PX-24: 42,902 lbs. (19,460 kg)
D61EXi-24: 41,094 lbs. (18,640 kg)
D61PXi-24: 43,167 lbs. (19,580 kg)

Blade capacity
D61EX-24: 4.41 yd^3 (3.37 m^3)
D61PX-24: 4.98 yd^3 (3.81 m^3)
D61EXi-24: 4.41 yd^3 (3.37 m^3)
D61PXi-24: 4.98 yd^3 (3.81 m^3)

intelligent MACHINE CONTROL 2.0

Next-generation intelligence

How do you make one of the industry's most capable dozers even better? Make it smart. The slant-nosed, intelligent HST dozer features the latest Intelligent Machine Control (IMC) 2.0 capabilities.

Lift layer control

Engineered to achieve consistent lift layers with automatic control to help you increase your productivity.

Quick surface creation

Creates a temporary design surface with the press of a button.

Proactive dozing control

Cut and carry work performed with the smoothness of an experienced operator. Has the ability to operate automatically 100% of the time.

Tilt steering control

Helps reduce the need for constant operator corrections toward the target point.

Two antennas to support multiple global navigation satellite system (GNSS)

Satellite signal stability and reception offer reliability and accuracy.

Factory-installed information and communication technology (ICT) system standard



Photo may include optional equipment

intelligent MACHINE CONTROL 2.0

Innovative. Integrated. Intelligent.

Standard Intelligent Machine Control 2.0

Standard factory-installed integrated 3D GNSS Intelligent Machine Control system.

Factory-installed machine control components
Machine control components are factory-installed and designed as an integral part of the base machine to promote durability.

Komatsu quality
Machine control components and system are validated to Komatsu's quality and 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 multicolor customizable display.

3D GNSS machine control (standard)
All on-machine components are standard including control box, GNSS receiver/radio, GNSS antenna and enhanced inertial measuring unit sensor.

Finish grade performance
Advanced sensor package and intelligent logic helps drive 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 promotes finish grade accuracy without blade mounted sensors.

Dual cab-top GNSS antennas
Load control intelligence controls blade elevation to help 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 can select among four distinct machine control operating modes to help drive optimized 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.

SAA4D95LE-7 variable flow turbocharged and aftercooled 3.26-liter diesel engine provides excellent fuel economy. This engine is EPA Tier 4 Final emissions certified.

Variable flow turbocharger uses a simple valve to help drive optimum air flow under all speed and load conditions.

Komatsu Diesel Oxidation Catalyst (KDOC) and selective catalytic reduction (SCR) systems help reduce particulate matter and NOx using passive regeneration 100% of the time. No active or manual regeneration is required.

New Komatsu Auto Idle Shutdown helps reduce excessive idle time.

Efficient cooling system:
- Electronically controlled, hydraulically driven fan is manually reversible
- Radiator cover with gas assisted lift cylinders opens easily for cleaning
- Side-by-side coolers made for increased cooling capacity

Integrated ROPS cab features:
- Large, quiet, pressurized cab
- Excellent visibility with integrated ROPS structure
- Heated air-ride seat with high-capacity suspension (standard)
- Standard aux jack and (2) 12V power convertors
- Bluetooth radio and LED worklights

Self-adjusting idler support engineered to provide constant and even idler tension, helping to reduce vibration and increase undercarriage life.

Parallel Link Undercarriage System (PLUS) provides exceptional wear life and helps to control repair and maintenance costs.

New triple labyrinth final drive provides additional protection for the final drive floating seals.

Power angle tilt (PAT) dozer with manually adjustable blade pitch helps drive increased productivity in a variety of applications.

Comprehensive operator blade control:
- Palm Command Control System (PCCS)
- Electronic Proportional Control (EPC)
- Adjustable quick shift and variable shift modes
- Blade angle switch
- Three blade control settings
- Multiple-operator memory storage

Efficient hydrostatic transmission with electronic control:
- Customizable quick shift (three speeds) settings for the operator
- Variable speed selection (20 speeds)
- Low speed matching technology (large displacement pumps/efficient engine speed)
- HST control system can help reduce fuel consumption

Intelligent Machine Control (IMC)



Intelligent Machine Control (IMC) 2.0

D61EX/EXi/PX/PXi-24 utilizes IMC 2.0, a GNSS* system that automatically controls the blade to three-dimensional design data. IMC 2.0 utilizes industry-leading proactive dozing control logic, lift layer control, quick surface creation and tilt steering control. A two-antenna system supports multiple GNSS, which helps reduce downtime and promotes more work time. These added features are designed for enhanced production and efficiency.

*GNSS (global navigation satellite system): General term for satellite positioning systems such as GPS, GLONASS, etc.

Quick surface creation

Operators can create a temporary design surface with the press of a button. Designed to simplify infield surface creation within the control box, it allows for more utilization of IMC 2.0.



Tilt steering control

The blade automatically tilts under a heavy load to maintain a straight line of travel to help optimize productivity throughout each pass while helping to mitigate operator fatigue.



Auto/manual switch

A conveniently located on/off switch gives the operator control of when IMC 2.0 is active.



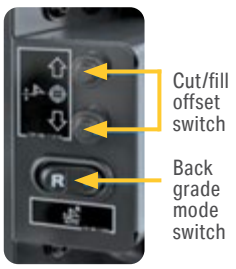
Function switches

Cut/fill offset switch

The target surface height can be quickly adjusted by pressing the offset switch (button).

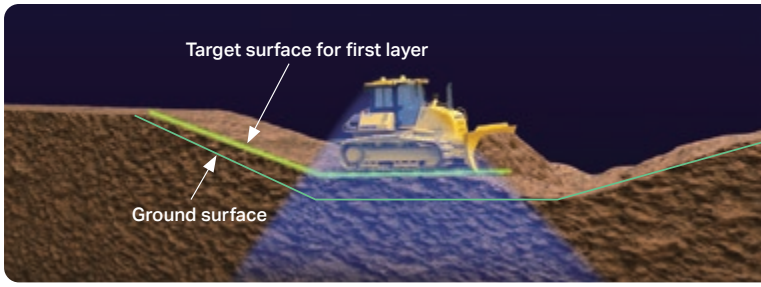
Back grade mode switch

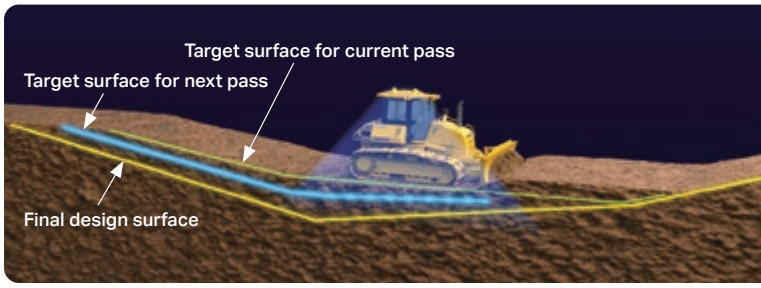
Allows for automatic control during back grading.



Lift layer control
Advance earthwork productivity and maintain compaction quality by automatically controlling lifts to the desired heights with respect to the mapped terrain. Excess fill is virtually eliminated as automatic blade control is engineered to follow finish surface once lifts have reached finish grade.

Proactive dozing control
Operators can utilize automatic blade control from rough grading to finish grading work. Proactive dozing control understands the terrain in the path of each cut, working to help maximize the blade load throughout the pass, regardless of the terrain ahead and achieves productivity similar to that of an experienced operator.





Two antennas supporting multiple GNSS

Work accuracy is advanced by two antennas supporting the multiple GNSS.

Improvement of blade accuracy on slope
Blade accuracy is maintained during slope work.

Reliability of blade accuracy
Galileo, QZSS and BeiDou can be used in addition to GPS and GLONASS. The enhanced satellite capture rate allows the machine to be used in any time zone.







Control box

1 LH LED indicator 2 Upper LED indicator
3 RH LED indicator
4 Power ON/OFF and menu switch (Press: Display the main menu / Hold down: Turn ON/OFF the power supply)
5 Zoom in switch 6 Zoom out switch
7 Toggle main view switch (Press: Switch the display of main window / Hold down: Adjust the brightness and sound volume)
1 Left window 2 Main window 3 Lower window
4 Right window 5 Speed control ON/OFF
6 Take a topo shot 7 Simple grading ON/OFF
8 Cut depth selection 9 Smooth start ON/OFF
10 Tilt steering ON/OFF 11 Toggle As-built mode change view to [none], [cut fill], [pass counts]
12 Quick surface creation (Create slope plane surface)
13 Lift layer control (Create As-built design surface)
1 Elevation control key 2 Slope control key
3 GNSS status 4 Radio status 5 Cut/Fill offset
6 Cut/Fill reading 7 Tilt of blade
8 Design cross-slope 9 Type of control
10 AUTO indicator 11 Back Grade mode indicator
12 Lift indicator

*This is a typical main screen of control box.

Automatic dozing from grass to grade

Benefits of IMC 2.0

Improved finish grading

Up to 50% reduction in gouging*

Applications: Finish grading

- Analyzes terrain and 3D model to proactively position blade in hard-to-grade areas
- Helps prevent overcutting at finish grade

Lift layer control

Up to 50% reduction in lift time**

Applications: Lifting, compaction quality control

- Maintain precise lift thickness
- Automatically spreads lift from existing terrain and helps prevent overfill
- Up to double the production of prior model

Proactive dozing control

Up to 60% more productive*

Applications: Stripping topsoil, high-production dozing

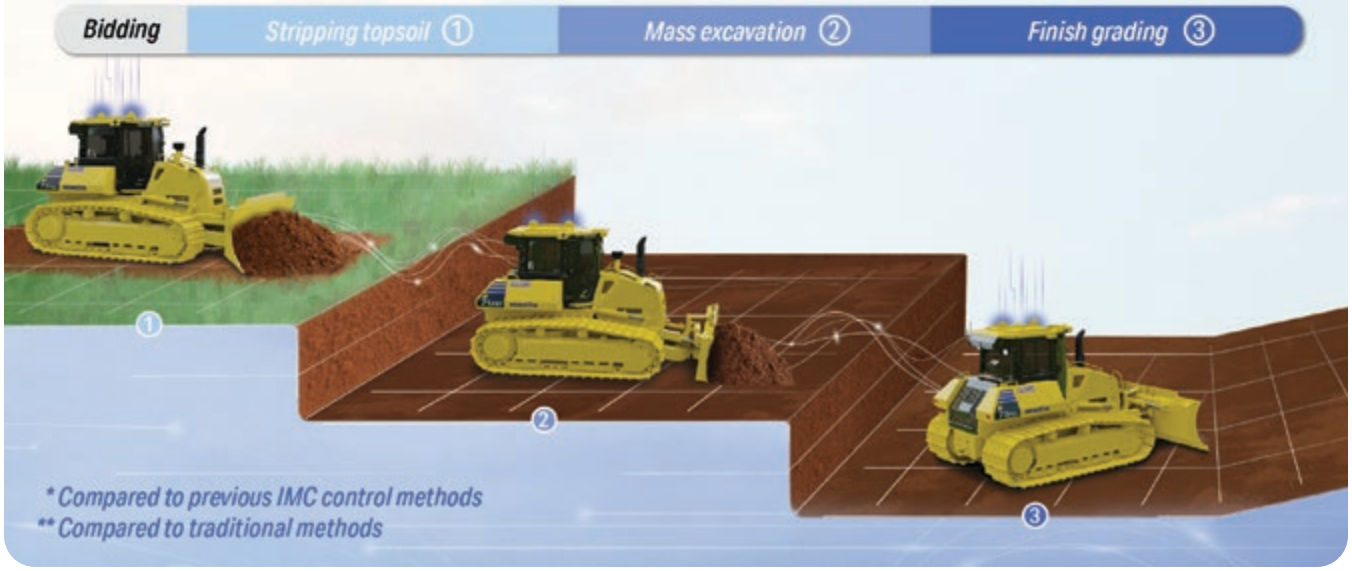
- Uses data from previous pass to plan the next pass
- Automatically cut/strip from existing terrain
- Helps new operators perform like experienced ones

Tilt steering control

Up to 80% reduction in input**

- Automatically tilts blade to maintain straight travel while rough dozing
- Maintains consistent power to the ground and track

Use automation throughout the entire process



** Compared to previous IMC control methods*
*** Compared to traditional methods*

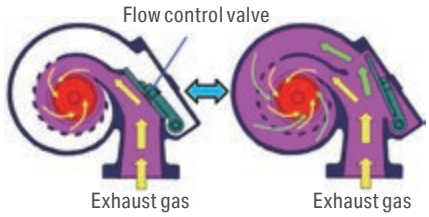
Performance features

Komatsu engine technologies

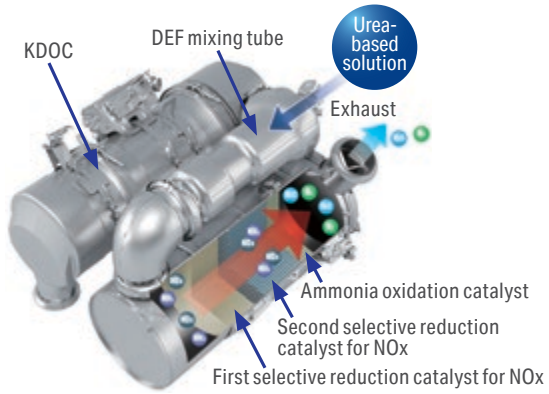
Emissions-compliant engine
Regulations effective in 2014 require the reduction of nitrogen oxide emissions. In addition to refining the U.S. EPA Tier 4 Interim technologies, Komatsu developed a new selective catalytic reduction (SCR) device in-house.

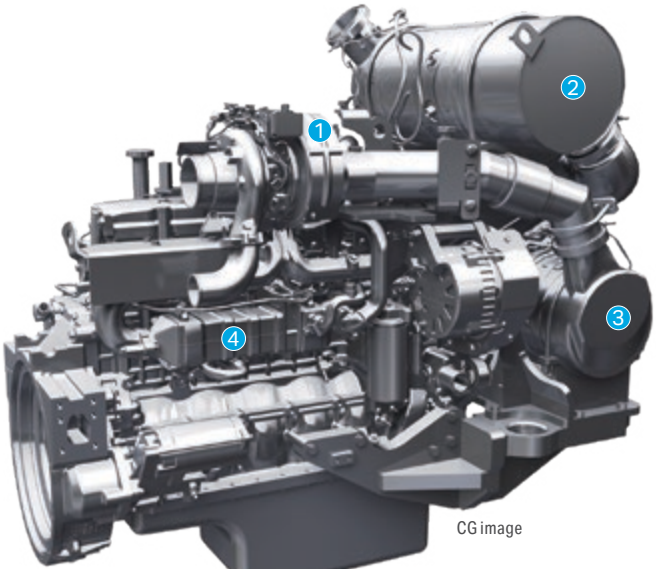
Technologies applied to engine

Water-cooled variable flow turbocharger
The variable flow turbocharger features simple and consistent technology that varies the intake air-flow. Exhaust turbine wheel speed is controlled by a flow control valve that enables delivery of a precise volume of air to the engine combustion chamber under all speed and load conditions. This technology helps promote cleaner exhaust gas while maintaining power and performance.



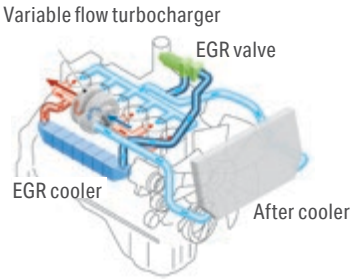
Heavy-duty aftertreatment system
This system consists of a Komatsu Diesel Oxidation Catalyst (KDOC) and an SCR. The SCR NOx reduction system injects the precise amount of diesel exhaust fluid (DEF) at the proper rate, thereby decomposing nitrogen oxide into water (H2O) and nitrogen gas (N2).





1. Variable geometry turbocharger (VGT)
2. Selective catalytic reduction (SCR)
3. Komatsu Diesel Particulate Filter (KDPF)
4. Exhaust gas recirculation (EGR) cooler

Cooled exhaust gas recirculation (EGR)
Cooled EGR, a dependable technology available in existing Komatsu engines, promotes reduced nitrogen oxide emissions. These components drive reliable performance during the demanding work conditions of construction equipment.



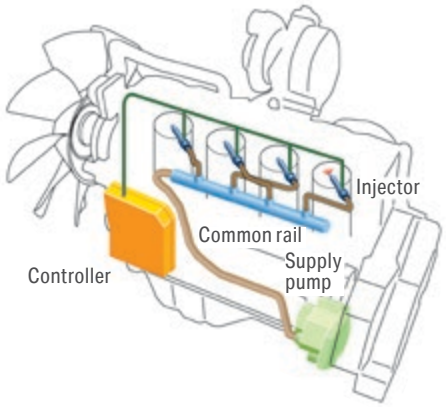
Komatsu Closed Crankcase Ventilation (KCCV)
Crankcase emissions (blow-by gas) are passed through a KCCV filter. The KCCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil-mist-free, is fed back to the air intake.



Performance features

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, thereby bringing close to complete combustion to help control particulate matter (PM) emissions. While this technology is already used in current engines, the new system uses higher-pressure fuel injection, thereby further helping to reduce both PM emissions and fuel consumption over the entire engine power range.



Advanced electronic control system

The electronic control system performs high-speed processing of signals from sensors installed in the vehicle and engine. This promotes better control of the equipment under virtually any condition. Engine condition information is displayed via an on-board network on the monitor inside the cab. Furthermore, Komtrax helps customers use this information to keep up with maintenance needs.

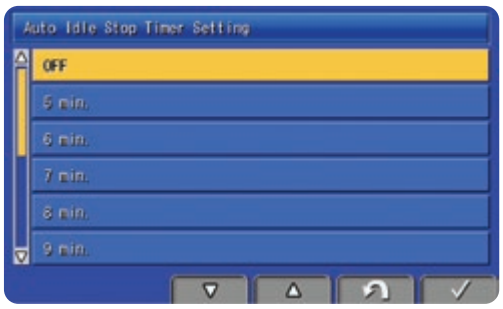
Redesigned combustion chamber at top of piston

The combustion chamber at the top of the piston has a new shape designed to improve combustion and further help control NOx, PM, fuel consumption and noise.

Auto idle shutdown function

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

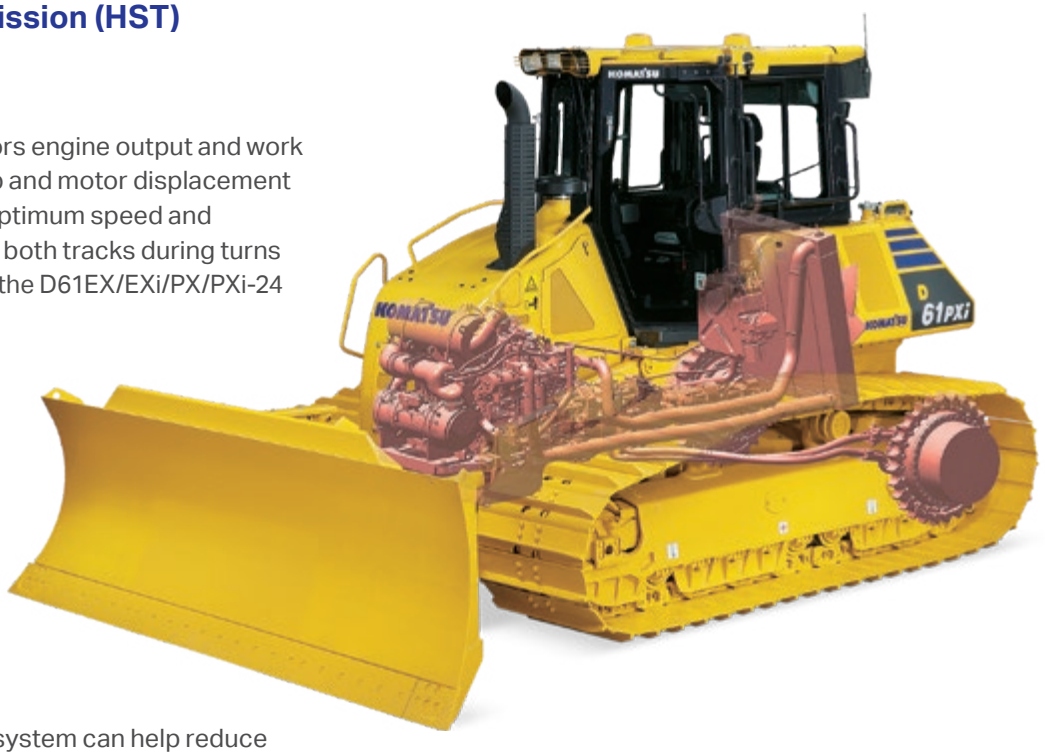




Productivity and fuel economy features

Hydrostatic transmission (HST) control system

HST control system
The HST controller monitors engine output and work load. It controls HST pump and motor displacement and is engineered to the optimum speed and drawbar pull. Full power to both tracks during turns or counter-rotation makes the D61EX/EXi/PX/PXi-24 extremely maneuverable.



Fuel efficiency

The efficient HST control system can help reduce fuel consumption.

Fuel consumption reduced by up to 5%

Compared with D61EX/PX-23 in P mode
Based on typical work pattern collected via Komtrax

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 is necessary to adequately cool the machine's fluid. This system works to support fuel efficiency, helps control operating noise levels and generally will require less horsepower than a belt-driven fan.

Selectable working mode

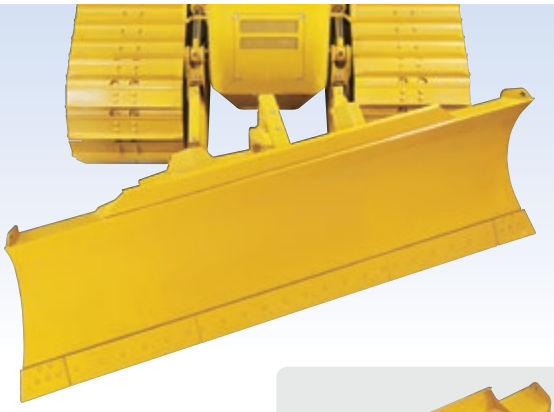
P mode is the mode designed for powerful operation and maximum production. E mode is designed for general dozing applications and providing adequate speed and power while saving energy. For fuel usage reduction and energy savings, the monitor panel allows the operator to easily switch between working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

P mode (power mode)
With P mode, the engine outputs its full power, allowing the machine to perform work requiring large production, heavy-load and uphill work.

E mode (economy mode)
With E mode, the engine outputs enough power for the work without delivering unnecessary power. This mode enables energy saving operation and is designed for work on hard or rough surfaces that often cause shoe slip and work not requiring as much power, such as downhill dozing, leveling and light-load work.

H mode (high engine idle speed mode)
H mode is installed to only North American specification. Compared with the P mode, the engine high idle speed is higher in the H mode. This setting allows subtle changes in load to be detected, which is suitable for power-intensive work.

Productivity and fuel economy features



PAT dozer with adjustable pitch

A power angle power tilt dozer blade with adjustable blade pitch system is available on the D61EX/EXi/PX/PXi-24. The hydraulic blade tilt and angling function are designed to expand versatility and productivity in a variety of applications.



Excellent blade visibility

The D61EX/EXi/PX/PXi-24 incorporates Komatsu's super-slant nose design. Komatsu's innovative design provides excellent blade visibility engineered for improved machine control and increased efficiency and productivity.

Looking for a clear line of site? Let us help you see what you're missing!

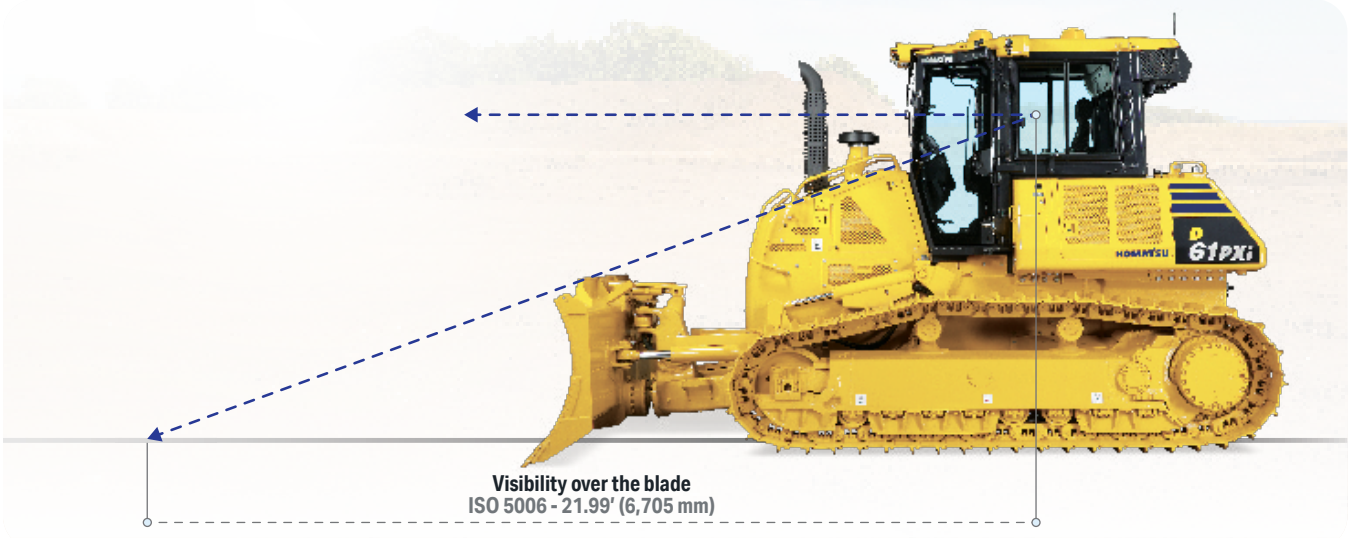
Features:

- Rear-mounted radiator
- Enhanced cab-forward design with integrated ROPS
- Super slant-nose engineering

Benefits:

- **Enhanced visibility:** Rear radiator placement allows for a lower front height
- **Operator confidence:** Enhanced field of view facilitates proper operation
- **Comfortable:** Superior cab-forward design for a balanced ride





Visibility over the blade
ISO 5006 - 21.99' (6,705 mm)

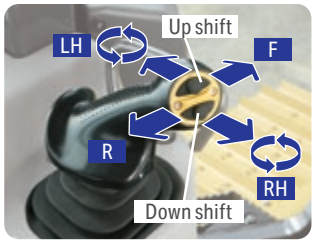
Control features



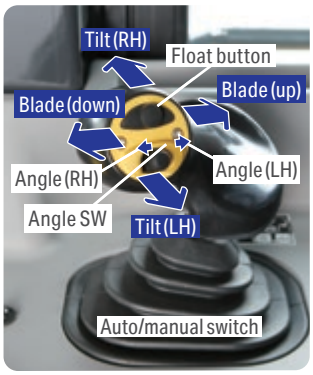
Palm Command Control System (PCCS) levers

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

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



Electronic controlled hydraulic system
Electronic controlled palm commanded joystick is engineered for precise blade control. New blade angling switch operation provides easy and predictable blade control.



HST with electronic control

The D61EX/EXi/PX/PXi-24 is equipped with Komatsu-designed 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 the need for steering clutches and brakes, providing smooth, powerful turns. Fully electronic control provides automatic shifting and enabling smooth control. Engine speed is controlled using an electronic fuel control dial.

One-pedal design (decelerator/brake pedal) controls speed during operation

Machine operation is simple because brake function has been integrated 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 modulates engine rpms and vehicle travel speed. It can be used for all applications.

Brake mode: The pedal modulates 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



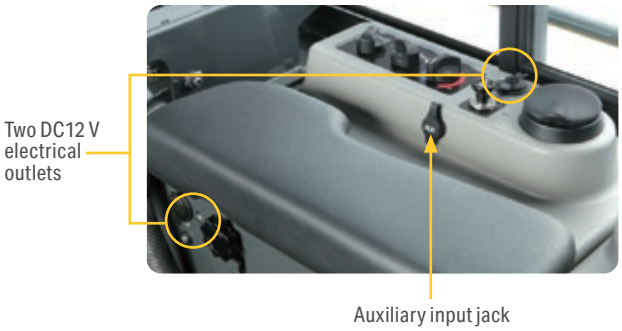
The D61EX/EXi/PX/PXi-24 has an integrated ROPS (ISO 3471) cab with Bluetooth radio and LED worklights. High rigidity and superb sealing performance work to sharply reduce noise and vibration for the operator and discourage dust from entering the cab. In addition, side visibility is enhanced because external ROPS (ISO 3471) structure and posts are not required.

Comfortable ride with cab damper mounting

The D61EX/EXi/PX/PXi-24's cab mount uses a cab damper system that provides excellent shock and vibration absorption. The silicon-oil-filled cab damper mount helps to isolate the cab from the machine body, suppressing vibration and designed to provide quiet, comfortable operating environment.

Auxiliary input jack and two DC12-volt 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 DC12-volt electrical outlets can be used as a power source for radio equipment or others.



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 and comfortable operation is possible in a variety of conditions. Also, the seat heat makes it possible to work comfortably in the winter.



Additional operator convenience equipment

Rearview 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

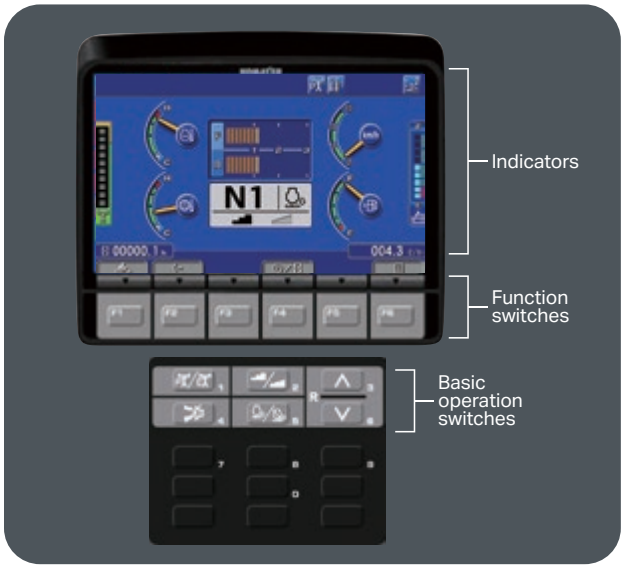
A new secondary switch has been added at the side of the front console to shut down the engine.



Technology features

Large multilingual, 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 under various lighting conditions. Simple and easy-to-operate switches and function keys facilitate multifunction operations. The monitor displays data in 26 languages.



Multi-monitor with troubleshooting function to help control downtime



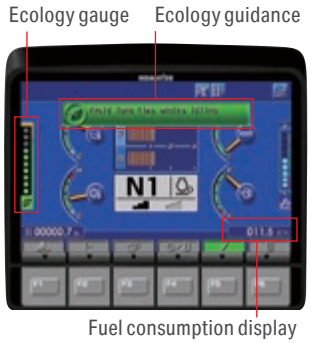
Various meters, gauges and warning functions are centrally arranged on the multi-monitor. The monitor helps simplify start-up inspection and promptly warns the operator with a lamp and buzzer if any abnormalities occur. In addition, warning indicators are displayed in four levels to alert the operator of potential issues. Replacement times for required PM 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 displayed 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 in an environmentally conscious way and help control 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



My Komatsu makes it easy to collect, visualize and monitor telematics data from both Komatsu machines and other OEM machines so that you can make the best operation and management decisions. Location, actual hours worked, fuel consumption, maintenance monitoring, load frequency and more are displayed on easy-to-read dashboards. The new D61EX/EXi/PX/PXi-24 models add the following new information to drive fuel consumption reduction:

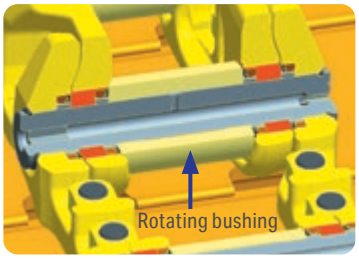
- Guidance to help control fuel consumption
- Ecological operation report
- Operating hours by operation mode (E or P mode)
- Service information for U.S. EPA Tier 4 Final (regeneration information)

Reliability and maintenance features

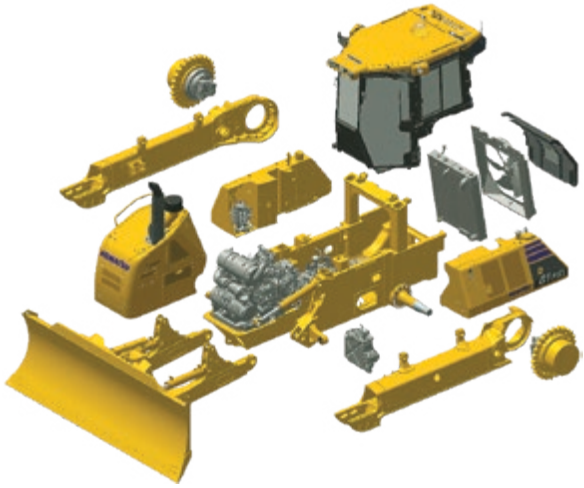
Excellent reliability and durability

Parallel Link Undercarriage System (PLUS)
Komatsu's PLUS rotating bushing design helps control downtime, promotes longer wear and helps to lower undercarriage maintenance costs. Rotating bushings mitigate the cost and downtime for bushing turns, and strengthened rollers and links are designed to increase wear life. With PLUS, individual links can be replaced with common track tools.





Modular design
One of the design goals behind the creation of the D61EX/EXi/PX/PXi-24 was to manufacture a more durable machine. This was achieved by reducing component complexity and using a strong modular design allows for increased serviceability and durability.



Self-adjusting idler support
The self-adjusting idler support is engineered to provide constant and even tension on idler guide plates, helping to reduce noise and vibration and driving longer undercarriage life.



Easy maintenance

Planned maintenance and daily checks are the only way to maintain long service life from equipment. That's why Komatsu designed the D61EX/EXi/PX/PXi-24 with conveniently located maintenance points to make necessary inspections and maintenance quick and easy.

Rear, hydraulically driven, swing-up fan
The D61EX/EXi/PX/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 enables the fan to rotate in the reverse direction to help clear off objects that are restricting air flow.





Komatsu helps you bring it all together

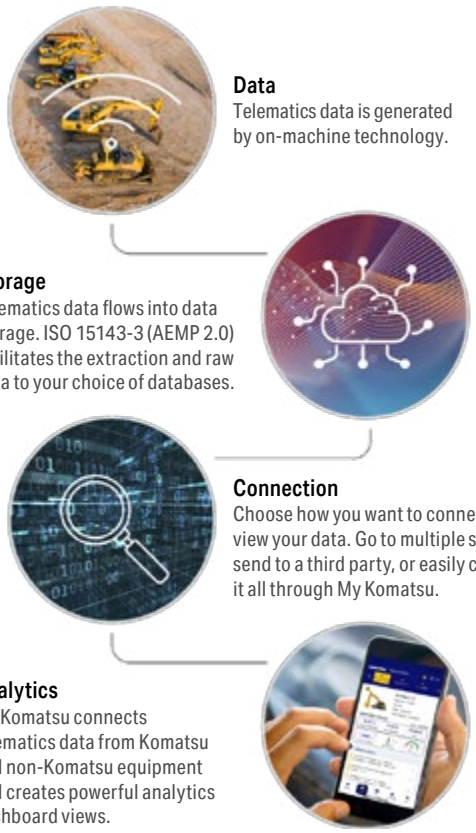
Get the most out of your fleet with My Komatsu

We've designed a portal that makes it easy to collect, visualize and monitor data for both Komatsu machines and other OEM machines. My Komatsu also gives you one easy source for accessing manuals and purchasing parts for your machines.

- Quickly collect, view and manage intuitive data displays in one location
- Help keep costs under control
- Benchmark machine performance and track fuel consumption
- Monitor for theft and unauthorized use
- Receive timely maintenance alerts



My Komatsu, our comprehensive portal, analyzes telematics data from your on-machine technology — Komtrax and Komtrax Plus, or from other OEMs — and displays it on easy-to-read dashboards. Now you can get the powerful analytics you need to manage your costs and enhance your fleet's efficiency without a complicated process or expensive third-party solutions.



Data
Telematics data is generated by on-machine technology.

Storage
Telematics data flows into data storage. ISO 15143-3 (AEMP 2.0) facilitates the extraction and raw data to your choice of databases.

Connection
Choose how you want to connect and view your data. Go to multiple systems, send to a third party, or easily connect it all through My Komatsu.

Analytics
My Komatsu connects telematics data from Komatsu and non-Komatsu equipment and creates powerful analytics dashboard views.

mykomatsu.komatsu

Get more from an IMC machine with Smart Construction

You can have more control over your projects, efficiency and profitability when data is easily shared, replicated, updated and analyzed. That's what Smart Construction software, services and solutions are all about.



An IMC dozer is capable of dozing to plan with incredible precision and efficiency when working off a 3D design.

Have paper plans turned into digital 3D design files with our **Smart Construction Design** service.

Transfer files wirelessly to any cellular connected machine or data collector — from almost anywhere — with **Smart Construction Remote**, saving hours of time. You can also review near real-time machine data with a connected phone or computer.



As a dozer tracks, it tracks as-built data. **Smart Construction**, a productivity tracking, site visualization and site management tool can easily quantify production and easily report to and invoice clients.

We can help you implement these solutions and even train your staff to use them. Technology solution experts and trainers are available by phone, online or at your job site to help you thrive on your digitalization journey.

komatsu.com/smart-construction

Komatsu maintenance and repair programs

Simplify the complexities of machine owning and operating costs and enhance the value of your equipment with Komatsu's tiered maintenance and repair offerings. Manage your active coverage programs through the My Komatsu customer interface and take advantage of attractive financing options.

- Solutions that fit your needs and ease your mind
- Fixed maintenance and repair costs for the life of the contract
- National coverage



Komatsu Care Complimentary

Complimentary maintenance

Our complimentary scheduled maintenance program for the first three years or 2,000 hours, whichever occurs first.

Komatsu Care Plus

Extended maintenance

A continuation of the Komatsu Care program. Along with regularly scheduled maintenance and national distributor coverage, you get a variety of added benefits.

Komatsu Care Plus II

Extended maintenance and repair

Everything in the Komatsu Care Plus program bundled with comprehensive repair coverage for qualifying repairs.

Komatsu Care Plus III

Extended maintenance, repair and consumables

A comprehensive program that simplifies your equipment's total cost of ownership with a fixed cost per hour for qualifying repairs and replacements.

Komatsu Care Advantage Warranty

Extended warranty

Protect your equipment in the event a covered component fails due to a defect in material or workmanship. Repairs are performed by Komatsu-trained experts using Komatsu genuine parts.

komatsu.com/maintenance-repair

Komatsu Financial

Financial services built for your business success.

komatsu.com/financing

Komatsu Genuine Parts

Engineered to help extend the life of your Komatsu machine. Now available on the My Komatsu parts store.

komatsu.com/parts

Komatsu training

Comprehensive training support — virtually, at our facility or where most convenient.

komatsu.com/training



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	4.21 in x 4.8 in (107 mm x 124 mm)
Piston displacement	408 in^3 (6.69 L)
Governor	All-speed and mid-range, electronic
Horsepower	
SAE J1995	Gross: 170 HP (127 kW)
ISO 9249/SAE J1349	Net: 168 HP (125 kW)
Hydraulic fan at maximum speed	Net: 152 HP (113 kW)
Rated rpm	2,200 rpm
Fan drive type	Hydraulic
Lubrication system	
Method	Gear pump, forced lubrication
Filter	Full-flow

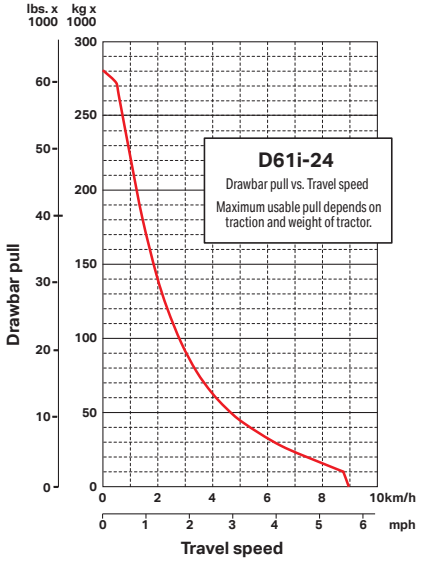
*EPA Tier 4 Final emissions certified

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 best 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 helps control risk of damage by debris. Bolt-on sprocket ring with triple labyrinth seal design.

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*	
D61EX/EXi-24	2.1 m (6'11")
D61PX/PXi-24	2.3 m (7'7")

Undercarriage

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

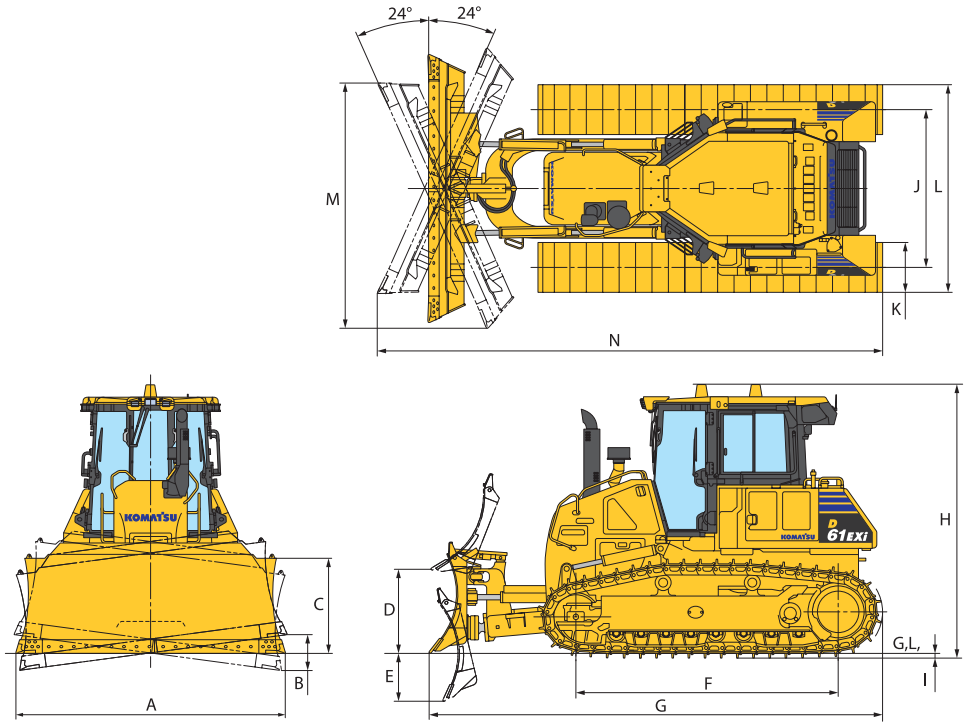
Lubricated tracks
Parallel Link Undercarriage System (PLUS) with lubricated rotating bushings for extended system wear life and lower maintenance costs. Track tension is adjusted easily with grease gun.

		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 in^2	37,980 5,887	54,440 8,438
Ground pressure (with dozer, ROPS cab) (ISO 16754)	kPa kgf/cm^2 psi	43.37 0.44 6.29	31.78 0.32 4.61
Track gauge	mm ft. in	1,900 6'3"	2,130 7'0"
Length of track on ground	mm ft. in	3,165 10'5"	3,165 10'5"

Service refill capacities

Coolant	45 L	11.9 US gal
Fuel tank	372 L	98.3 US gal
Engine oil	27 L	7.2 US gal
Hydraulic tank	101 L	26.7 US gal
Final drive (each side)	8.1 L	2.1 US gal
Diesel Exhaust Fluid (DEF) tank	20.6 L	5.4 US gal

D61EX/EXi/PX/PXi-24



Dimensions

	D61EX/EXi-24		D61PX/PXi-24	
A	10'8'	3,250 mm	12'8'	3,860 mm
B	1'5"	435 mm	1'8"	515 mm
C	3'11"	1,195 mm	3'9"	1,155 mm
D	3'4"	1,025 mm	3'4"	1,025 mm
E	1'11"	580 mm	1'11"	580 mm
F	10'5"	3,165 mm	10'5"	3,165 mm
G	17'12'	5,480 mm	17'12'	5,480 mm
H	11'	3,340 mm	11'	3,340 mm
I	2"	57.5 mm	2"	57.5 mm
J	6'3"	1,900 mm	7'0"	2,130 mm
K	2'0"	610 mm	2'10"	860 mm
L	8'2"	2,500 mm	9'10"	2,990 mm
M	9'9"	2,980 mm	11'7"	3,530 mm
N	20'0"	6,100 mm	20'5"	6,220 mm
Ground clearance				15" 390 mm

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.	
D61EX-24	38,647 lbs. (17,530 kg)
D61EXi-24	38,911 lbs. (17,650 kg)
D61PX-24	40,389 lbs. (18,320 kg)
D61PXi-24	40,653 lbs. (18,440 kg)
Operating weight	
Including PAT dozer, ROPS (ISO 3471) cab, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank.	
D61EX-24	40,830 lbs. (18,520 kg)
D61EXi-24	41,094 lbs. (18,640 kg)
D61PX-24	42,902 lbs. (19,460 kg)
D61PXi-24	43,167 lbs. (19,580 kg)

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 L/min 45 US 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 L	26.7 US 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* ft. in mm	Blade capacity yd³ m³	Blade width x height ft. in mm	Max. lift above ground ft. in mm	Max. drop below ground ft. in mm	Max. tilt adjustment ft. in mm
D61EX/EXi-24	18'0"	4.5 yd³	10'8" x 3'11"	3'4"	1'11"	17"
Standard blade	5,480 mm	3.4 m³	3,250 mm x 1,195 mm	1,025 mm	580 mm	435 mm
D61PX/PXi-24	18'0"	5.0 yd³	12'8" x 3'9"	3'4"	1'11"	20"
Standard blade	5,480 mm	3.8 m³	3,860 mm x 1,155 mm	1,025 mm	580 mm	515 mm

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*	D61	D61i
Air cleaner, double element with dust indicator	●	●
Air conditioner	●	●
Alternator, 90 ampere/24V	●	●
Back-up alarm	●	●
Batteries, 12V x 2/200 Ah	●	●
Battery disconnect switch	●	●
Blade lift cylinders	●	●
Color monitor, LCD	●	●
Curved exhaust pipe	●	●
Cab accessories – 12V × 2 power supply – Cup holder – Rear view mirror – Rear view monitor system – Bluetooth/USB compatible radio with remote AUX plug (3.5 mm) – 76 dBA	●	●
Decelerator pedal (single pedal)	●	●
Engine hood	●	●
Engine intake centrifugal precleaner	●	●
Engine, swing open side cover	●	●
Engine shutdown secondary switch	●	●
Fluid sampling ports	●	●
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 2.0	-	●
KOMTRAX	●	●
Komatsu Diesel Particulate Filter (KDPF)	●	●
LED worklights	●	●
Locks, filler caps and covers	●	●
Radiator mask, heavy-duty, swing up	●	●
Radiator reserve tank	●	●
Remote mounted equalizer bar greasing	●	●
ROPS cab**	●	●
Seat, air suspension, fabric, heated, low back, headrest	●	●
Seat belt, 3" (76 mm) retractable	●	●
Seat belt indicator	●	●
Sealed electrical connectors	●	●
Side-by-side rear mounted cooling package	●	●
Starting motor, 5.5 kW/24V	●	●
Steering system, hydrostatic	●	●
Tie off points standard (ISO 14567)	●	●
Track roller guards, center and end sections	●	●
Track shoe assembly (PLUS) – Heavy-duty lubricated rotary bushing	●	●
D61EX/EXi-24: 2' (610 mm) single grouser shoe (EX)	●	●
D61PX/PXi-24: 2'10" (860 mm) single grouser shoe (PX)	●	●
Transmission with variable and customizable quickshift	●	●
Transmission, hydrostatic	●	●
Underguards, heavy duty	●	●
Variable geometry turbocharger (VGT)	●	●
Water separator	●	●

Optional equipment	D61	D61i
Dozer assembly	○	○
Drawbar, long type	○	○
Track roller guard, full length	○	○
Multi-shank scarifier – Weight 3,874 lbs. (1,757 kg) – Beam length 7'1" (2,170 mm) – Maximum lift above ground 1'10" (560 mm) – Maximum digging depth 2'2" (665 mm)	○	○
IMC 2.0 2D laser kit	-	○

Allied manufacturer's attachments (shipped loose)	D61	D61i
Guarding-Komatsu (Ken Garner) – Front sweeps 573 lbs. (260 kg) – Hinged cab side screens 97 lbs. (44 kg) – Hinged cab rear screen 95 lbs. (43 kg) – Rear fan guard (HD) 27 lbs. (12 kg)	○	○
Hydraulic winch - Allied H6H 2,990 lbs. (1,356 kg)	○	○

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

** Cab meets ROPS and FOPS Level 2 standards

Standard equipment	●
Optional equipment	○
Not applicable	-

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