KOMATSU

D71EX/EXi/PX/PXi-24



Crawler dozer

Net horsepower
237 HP (177 kW)
@ 2,100 rpm

intelligent MACHINE CONTROL 2.0

Operating weight

D71EX-24: 49,824 lbs. (22,354 kg)
D71PX-24: 50,927 lbs. (22,814 kg)
D71PX-24 Wide: 52,690 lbs. (23,900 kg)
D71EXi-24: 50,045 lbs. (22,700 kg)
D71PXi-24: 51,147 lbs. (23,200 kg)
D71PXi Wide-24: 52,911 lbs. (24,000 kg)

Blade capacity (ISO 9246)

Power angle tilt (PAT) dozer
D71EX-24: 5.8 yd^3 (4.42 m^3)
D71PX-24: 6.1 yd^3 (4.65 m^3)
D71PX-24 Wide: 6.6 yd^3 (5.02 m^3)
D71EXi-24: 5.8 yd^3 (4.42 m^3)
D71PXi-24: 6.1 yd^3 (4.65 m^3)
D71PXi Wide-24: 6.6 yd^3 (5.02 m^3)

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

Help 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 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 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 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 drives increases in 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 2.0



Intelligent Machine Control (IMC) 2.0

D71EX/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 giving the operator control of when IMC 2.0 is active.



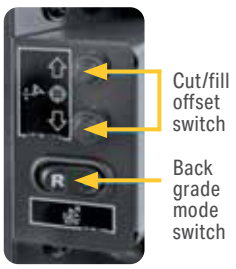
Function switches

Cut/fill offset switch

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

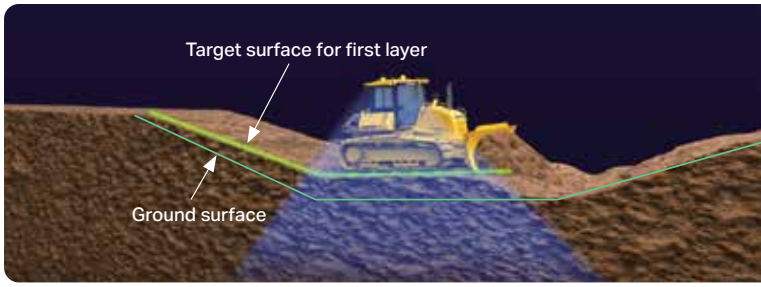
Back grade mode switch

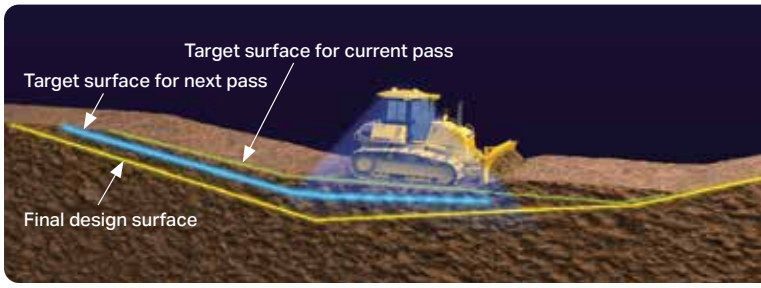
Allows for automatic control during back grading.



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 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

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

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

Applications: Stripping topsoil, high-production dozing

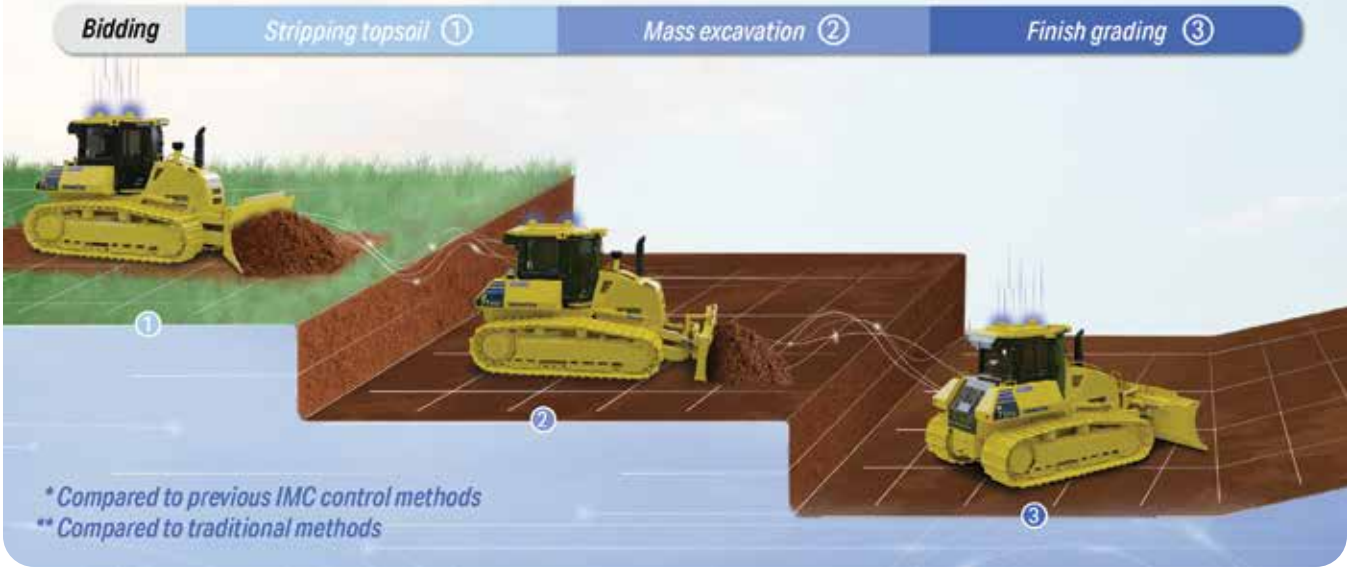
- Uses data from previous pass to plan the next pass
- Automatically cut/strip from existing terrain
- Helps new operators perform like experienced ones



Tilt steering control

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

Use automation throughout the entire process



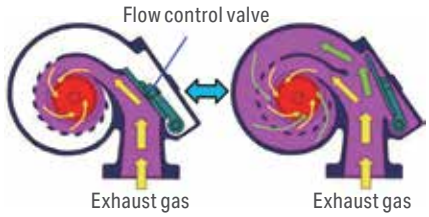
Performance features

Komatsu engine technologies

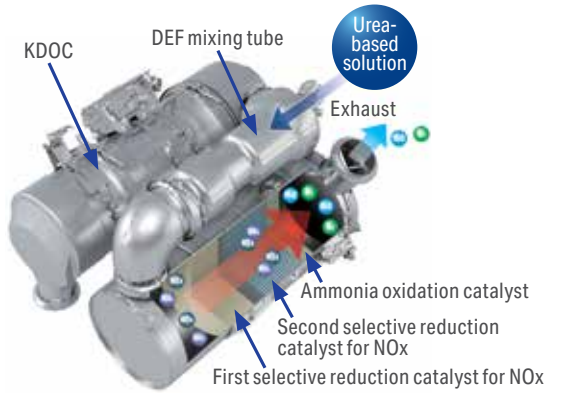
Emissions-compliant engine
Regulations effective in 2014 require the reduction of nitrogen oxide emissions. In addition to refining the U.S. EPA Tier 4 Interim technologies, Komatsu developed a new selective catalytic reduction (SCR) device in-house.

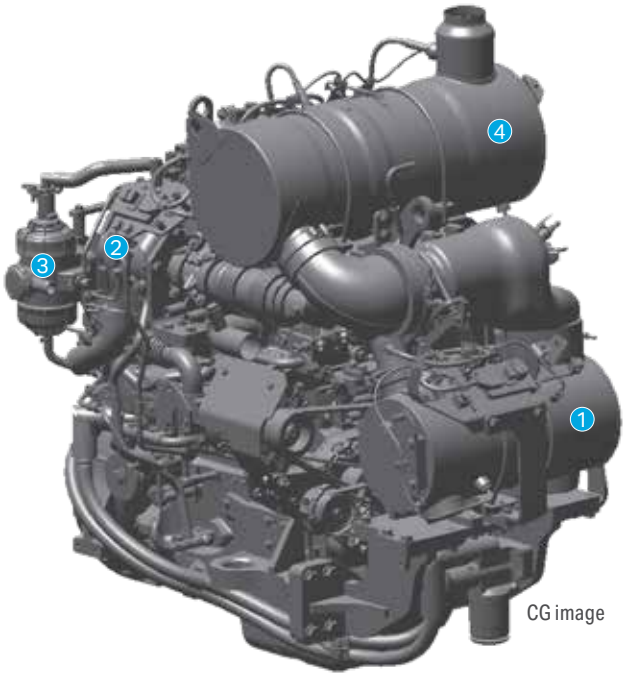
Technologies applied to engine

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 a 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).

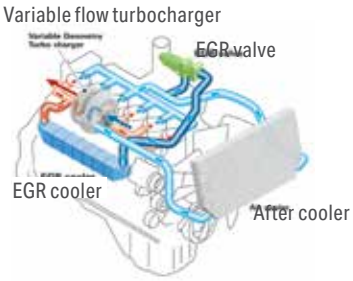




CG image

1. Komatsu Diesel Oxidation Catalyst (KDOC)
2. Variable flow turbocharger
3. Komatsu Closed Crankcase Ventilation (KCCV)
4. SCR

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.



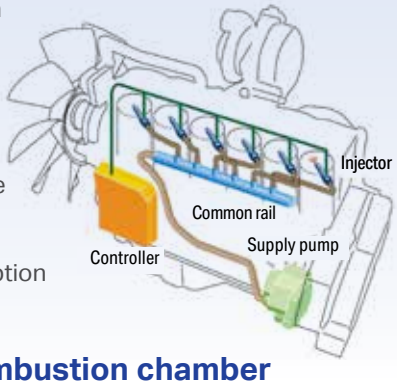
Komatsu Closed Crankcase Ventilation (KCCV)
Crankcase emissions (blow-by gas) are passed through a KCCV filter. The KCCV filter traps oil mist which is returned back to the crankcase while the gas, which is almost oil-mist-free, is fed back to the air intake.



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, 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.



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.

Komatsu closed crankcase ventilation (KCCV)

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





Selectable working mode

P mode is the mode designed for powerful operation and maximum production. E mode is designed for general dozing applications providing adequate speed and power while saving energy. For CO_2 reduction and energy saving, the monitor panel allows the operator to easily switch the working mode, depending on the work at hand.

P mode (power mode)

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

E mode (economy mode)

With E mode, the engine outputs enough power for the work without delivering unnecessary power. This mode allows for energy-saving operation and is suitable for the work on a ground where the machine may cause shoe slip and the work not requiring large 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.

Auto idle shutdown function

Komatsu auto idle shutdown helps reduce idle time and operating costs.

Auto-decelerator

The auto-decelerator automatically decreases the engine speed after selected period since the work equipment or travel lever return neutral.

Auto E mode

At light load work, changing to E mode automatically to reduce fuel consumption.

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 D71EX/EXi/PX/PXi-24 extremely maneuverable.



Effective work for HST

Grading: Operator can select the optimum vehicle speed.

Pushing: Engine power can be transmitted to the tracks consistently no matter the blade load; operators don't have to select the right gear.

Side cutting: Machine can maintain consistent power to tracks when turning under a load.

Work on soft ground: HST provides smooth control of machine speed without reduction in torque.

Ground speed control: Equipped with four speed presets or 20 speed steps, power can be controlled without reducing engine speed.

Production improvement

Equipped with a new SAA6D114E-6 engine whose horsepower is the largest in this class. Combined with the newly designed large-capacity blade, it works high production.

Rated engine horsepower (net)

237 HP (177kW)

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.

Long track-on-ground and oscillating track frame

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

Steering speed increase

Speeds up the outer crawler when turning, improving maneuverability and turnability.

Enhanced steering mode

FNR shift mode: Allows operator to optimize forward and reverse shifting response speed.

Steering mode: Improved steering performance with operator-adjustable turning speed. Fast mode enables the outside track to speed up, while maintaing machine travel speed to improve manuevarbility and turning.

Enhanced blade mode

Blade drop speed mode: New operator adjustable blade drop response, with added quick drop feature.

Blade tilt mode: Operator adjustable blade tilt response.

Blade lift mode: Operator adjustable blade lift response.

Productivity and fuel economy features



PAT dozer with adjustable pitch

A power angle tilt dozer blade with adjustable blade pitch system is available on the D71EX/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 D71EX/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!

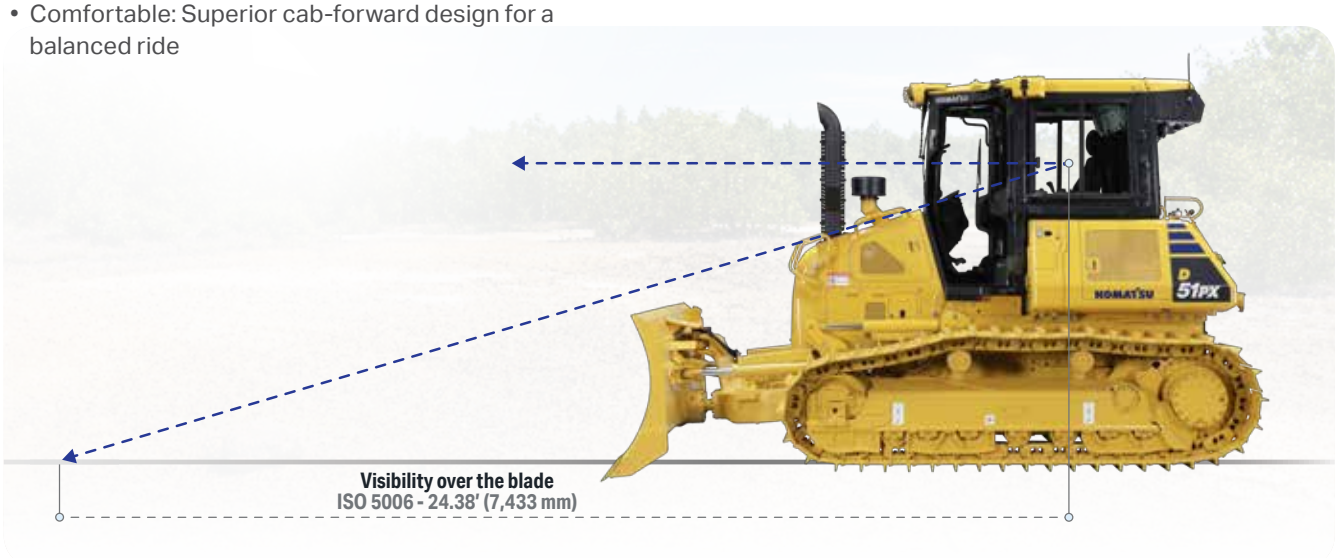
Features:

- 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





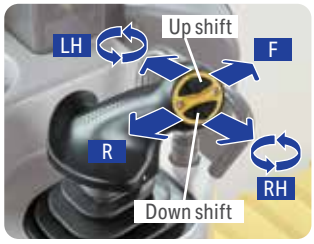
Control features



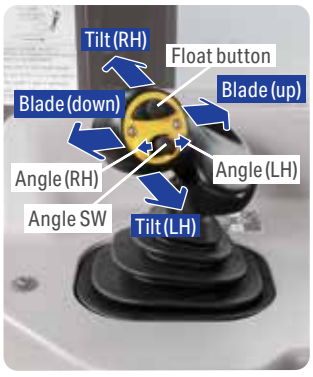
Palm Command Control System (PCCS) levers

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 in engineered for precise blade control. New blade angling switch operation provides easy and predictable blade control.



HST with electronic control

The D71EX/EXi/PX/PXi-24 is equipped with Komatsu-designed hydrostatic transmission (HST) that allows for quick-shift or variable speed selection. The HST consists of dual-path closed-circuits, with two variable displacement piston pumps and two variable displacement travel motors. Hydrostatic steering eliminates 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



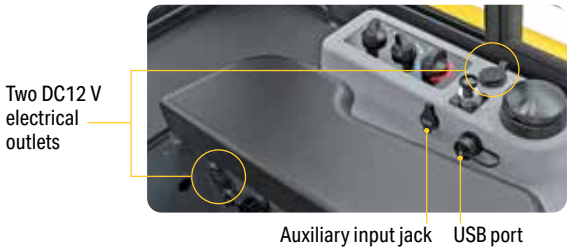
The D71EX/EXi/PX/PXi-24 has an integrated ROPS (ISO 3471) cab with Bluetooth radio and LED worklights. High rigidity and superb sealing performance work to sharply reduce noise and vibration for the operator and discourage dust from entering the cab. In addition, side visibility is enhanced because external ROPS (ISO 3471) structure and posts are not required.

Comfortable ride with cab damper mounting

The D71EX/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 is 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.



Multifunction audio

Audio equipped AM/FM radio, AUX, USB and Bluetooth functions.



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.

LED lights

LED lights are equipped on the machine. The visibility under low-light environments is improved, and operators can work at night with ease.





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.



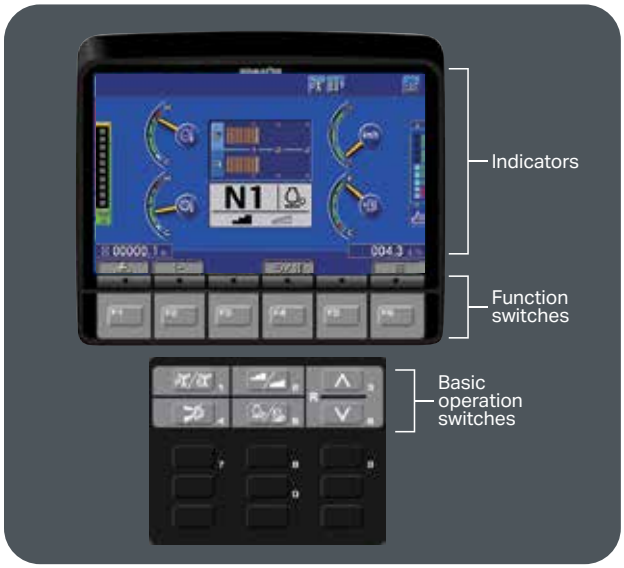
Operator presence sensing system

This feature locks out hydraulics under certain conditions to prevent unintentional movement when the operator is not in the seat.

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.



Multimonitor with troubleshooting function to 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.

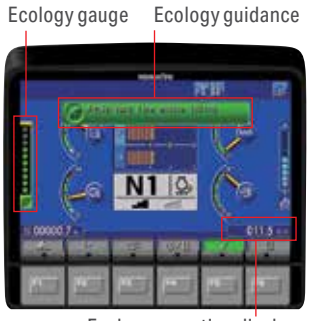
intelligent MACHINE CONTROL 2.0

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 overloading



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 D71EX/EXi/PX/PXi-24 models add the following new information to drive fuel consumption reduction:

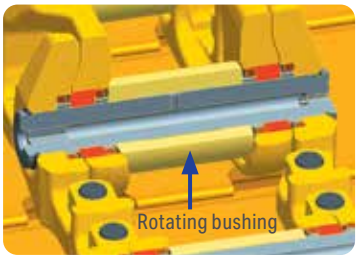
- Guidance to help control fuel consumption
- Ecological operation report
- Operating hours by operation mode (E or P mode)
- Service information for U.S. EPA Tier 4 Final (regeneration information)

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 D71EX/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.



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

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



Easy maintenance

Planned maintenance and daily checks are the only way to maintain long service life from equipment. That's why Komatsu designed the D71EX/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 D71EX/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.



Daily checks
All daily checks can be performed efficiently from the left side of the machine.

Easy sampling
Added sampling port for oil and coolant on machine, so you can sample very easily.





Equalizer bar side pins
Remote grease nipple on track-frame, so you can grease equalizer bar side pins easily.



Tie-offs
Anchor points of tie-off are installed. They are used to connect the safety belts of workers for maintenance and cleaning work.





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, 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 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

Get the service and repairs you need your way. Komatsu offers a tiered maintenance and repair program that simplifies the upkeep of your machine to help control operating costs and get the most from your equipment. 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 36 months or 1,500 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



General specifications

Engine*

Model			Komatsu SAA6D114E-6*
Type			Water-cooled, 4-cycle, direct injection
Aspiration			Komatsu variable geometry turbocharged, aftercooled, cooled EGR
Number of cylinders			6
Bore x stroke		114 mm x 144.5 mm	4.5" x 5.7"
Piston displacement		8.85 L	540 in^3
Horsepower			
SAE J1995	Gross	179 kW	240 HP
ISO 9249 / SAE J1349	Net	177 kW	237 HP
Hydraulic fan at maximum speed	Net	159 kW	213 HP
	Rated rpm		2,100
Fan drive type			Hydraulic
Governor			All-speed and mid-range, electronic
Lubrication system			
Method			Gear pump, forced lubrication
Filter			Full-flow

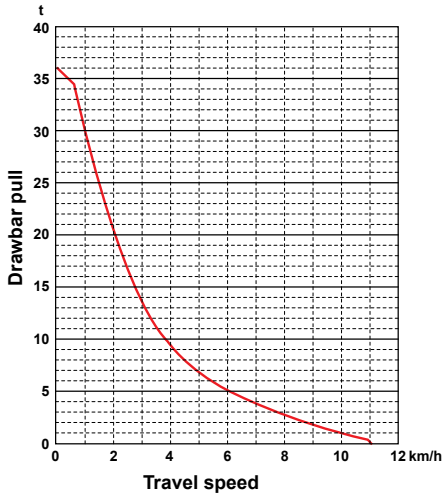
*EPA Tier 4 Final emissions certified.

Hydraulic transmission

Dual-path, hydrostatic transmission provides extensive speed changes up to 6.8 mph (11 km/h). 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	0-3.8 km/h	0-2.4 mph	0-4.5 km/h	0-2.8 mph
2nd	0-6.5 km/h	0-4 mph	0-7.5 km/h	0-4.7 mph
2.5th	0-8.4 km/h	0-5.2 mph	0-9.3 km/h	0-5.8 mph
3rd	0-11 km/h	0-6.8 mph	0-11 km/h	0-6.8 mph
Travel speed (variable mode)	Forward		Reverse	
1st	0.8-11 km/h	0.5-6.8 mph	0.8-11 km/h	0.5-6.8 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 can reduce 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		
D71EX-24/ D71EXi-24	3.1 m	10'2"
D71PX-24/ D71PXi-24	3.1 m	10'2"
D71PX-24 Wide/ D71PXi-24 Wide	3.3 m	10'10"

Undercarriage

Suspension	Oscillating-type with equalizer bar and pivot shafts
Track roller frame	Monocoque, large section, durable construction
Rollers and idlers	Lubricated track rollers
Sealed and lubricated track	Track tension easily adjusted w/grease gun

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.

		D71EX-24/ D71EXi-24	D71PX-24/ D71PXi-24	D71PX-24 Wide/ D71PXi-24 Wide
Number of track rollers (each side)		8	8	8
Type of shoes (standard)		Single grouser	Single grouser	Single grouser
Number of shoes (each side)		39	39	39
Grouser height	mm	65	65	65
	in	2.6	2.6	2.6
Shoe width (standard)	mm	610	760	915
	in	24	30	36
Ground contact area	cm^2	39,960	49,780	59,930
	in^2	6,194	7,716	9,289
Ground pressure (with dozer, ROPS cab) (ISO 16754)	kPa	43	40	35
	kgf/cm^2	0.44	0.50	0.36
	psi	6.2	5.8	5.1
Track gauge	mm	2,230	2,230	2,385
	ft. in	7'3	7'3	7'10
Length of track on ground	mm	3,275	3,275	3,275
	ft. in	10'9	10'9	10'9

Service refill capacities

Coolant	54.5 L	14.4 U.S. gal
Fuel tank	439 L	116.0 U.S. gal
Engine oil	30.5 L	8.1 U.S. gal
Hydraulic tank	154 L	40.7 U.S. gal
Final drive, each side	10 L	2.6 U.S. gal
DEF tank	20 L	5.3 U.S. gal

Operating weight (approximate)

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

D71EXi-24	21,350 kg	47,069 lbs.
D71PXi-24	21,800 kg	48,061 lbs.
D71PXi-24 Wide	22,500 kg	49,604 lbs.

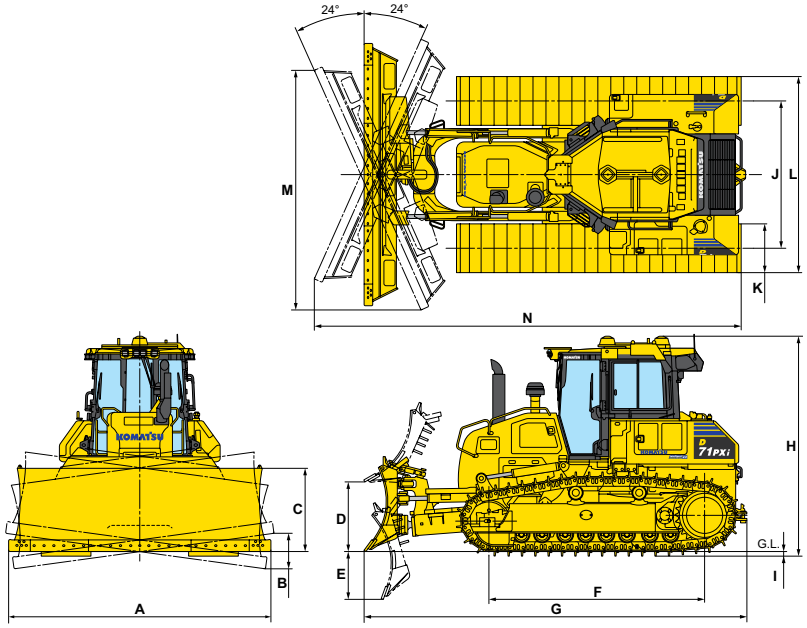
Operator weight: Including PAT dozer, ROPS (ISO 3471) cab, operator, standard equipment, rated capacity of lubricant, coolant and full fuel tank.

D71EXi-24	22,600 kg	49,824 lbs
D71PXi-24	23,100 kg	50,927 lbs.
D71PXi-24 Wide	23,900 kg	52,690 lbs
D71EXi-24	22,700 kg	50,045 lbs.
D71PXi-24	23,200 kg	51,147 lbs
D71PXi-24 Wide	24,000 kg	52,911 lbs.

Dimensions

	D71EX-24/ D71EXi-24		D71PX-24/ D71PXi-24		D71PX-24 Wide/ D71PXi-24 Wide	
A	12'8"	3,870 mm	13'2"	4,010 mm	14'1"	4,295 mm
B	1'8"	500 mm	1'9"	515 mm	1'10"	555 mm
C	4'2"	1,265 mm	4'2"	1,265 mm	4'2"	1,265 mm
D	3'7"	1,090 mm	3'7"	1,090 mm	3'7"	1,090 mm
E	2'4"	705 mm	2'4"	705 mm	2'4"	705 mm
F	10'9"	3,275 mm	10'9"	3,275 mm	10'9"	3,275 mm
G	19'1"	5,810 mm	19'1"	5,810 mm	19'1"	5,810 mm
H	10'11"	3,330 mm	10'11"	3,330 mm	10'11"	3,330 mm
I	3"	65 mm	3"	65 mm	3"	65 mm
J	7'4"	2,230 mm	7'4"	2,230 mm	7'10"	2,385 mm
K	2'	610 mm	2'6"	760 mm	3'	915 mm
L	9'4"	2,840 mm	9'10"	2,990 mm	10'10"	3,300 mm
M	11'9"	3,575 mm	12'2"	3,705 mm	13'	3,970 mm
N	21'4"	6,515 mm	21'5"	6,540 mm	21'8"	6,600 mm

Ground clearance: 1'4" (410 mm)



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 235 ltr/min 62.3 U.S. gal/min at rated engine rpm.

Relief valve setting	28.8 MPa	294 kg/cm²	4,177 psi
Hydraulic cylinders	Double-acting, piston type		

	Number of cylinders	Bore	
Blade lift	2	120 mm	4.7"
Blade tilt	1	130 mm	5.1"
Blade angle	2	110 mm	4.3"

Hydraulic oil capacity (refill)		
Power angle tilt dozer	154 L	40.7 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 scarifier		
Positions		
Scarifier lift	Raise, hold and lower	

Dozer equipment

	Overall length with dozer	Blade capacity	Blade width x height	Max. lift above ground	Max. drop below ground	Max. tilt adjustment	Additional weight
D71EX-24/D71EXi-24	19'1"	5.8 yd³	12'8" x 4'2"	42.9"	27.76"	19.7"	0 kg 0 lbs
Power angle tilt dozer	5,810 mm	4.42 m³	3,870 mm x 1,265 mm	1,090 mm	705 mm	500 mm	(included)
D71PX-24/ D71PXi-24	19'1"	6.1 yd³	13'2" x 4'2"	42.9"	27.76"	20.3"	0 kg 0 lbs
Power angle tilt dozer	5,810 mm	4.65 m³	4,010 mm x 1,265 mm	1,090 mm	705 mm	515 mm	(included)
D71PX-24 Wide/ D71PXi-24 wide	19'1"	6.6 yd³	14'1" x 4'2"	42.9"	27.76"	21.9"	0 kg 0 lbs
Power angle tilt dozer	5,810 mm	5.02 m³	4,295 mm x 1,265 mm	1,090 mm	705 mm	555 mm	(included)

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*	D71	D71i
Cab		
Air conditioner: non-freon type, with heater, defroster and pressurizer	●	●
Automatic climate control	●	●
Cup holder	●	●
Electronic fuel control dial	●	●
Foot rests, high mounted	●	●
Front, rear and door wipers	●	●
Horn, electric	●	●
Large LCD high-resolution color monitor	●	●
LED working lights, 4 front and 2 rear	●	●
Low-back air suspension seat, fabric material, with heat and cooling	●	●
Monitor: multifunction, 7-inch, high-resolution, color	●	●
Operator presence seat-sensor	●	●
Radio, AM/FM with auxiliary jack, USB, Bluetooth	●	●
Rearview mirrors	●	●
Rearview monitoring system (1 camera)	●	●
Retractable seat belt (3-in width)	●	●
ROPS cab (ISO 3471) and FOPS (ISO 3449) Level 2	●	●
Tie-offs (ISO 14567)	●	●
Two 12V accessory outlets	●	●
Electrical system		
Alternator (90 Amp, 24 Volt)	●	●
Backup alarm	●	●
Batteries, large capcaity (2 x 12 Volt), (930 CCA)	●	●
Battery master disconnect switch with lockout tagout provision	●	●
Engine shutdown secondary switch	●	●
Engine idle auto shutdown with adjustable timer	●	●
Starter motor (11 kW/24V)	●	●
Engine		
Above hood air intake pipe with centrifugal pre-cleaner	●	●
Air cleaner, double element with dust indicator	●	●
Auto-decelaration system	●	●
B20 compatible fuel lines	●	●
Fuel high-efficiency filter	●	●
Fuel prefilter with water separator	●	●
Grid heater — starting aid in cold weather	●	●
Komatsu Diesel Particulate Filter (KDPF)	●	●
Komatsu SAA6D114E-6, Tier 4 final, 8.9 L displacement	●	●
Komatsu variable geometry turbocharger (KVGT)	●	●
Large-capacity cooling system	●	●
Programmable auto-idle shut down	●	●
Selective catalytic reduction (SCR)	●	●
Strainer, fuel tank fill	●	●
Swing-up radiator fan, reversible, electronic control, hydraulic driven	●	●
Technology		
Automatic reverse grading	-	●
Dual-band UHF/915 radio and antenna kit	-	●
Dual cab-mounted GNSS antennas, control box, stroke sensing cylinders	-	●
EMMS (Equipment Management Monitoring System) including system monitoring with self diagnostics	●	●
Includes on-machine components such as IMU+	-	●
Integrated 3D GNSS machine control system	-	●
Komatsu Intelligent Machine Control 2.0	-	●
Komtrax, level 5 (4G)	●	●
Vertical offset switch	-	●

Guards and covers	D71	D71i
Battery lockout/tagout provision	●	●
Closed engine hood	●	●
Crankcase guard	●	●
Engine hood and side panel with locks	●	●
Final drive with triple labyrinth seal	●	●
Front pull hook	●	●
Front sweeps	□	□
Hitch	○	○
Locks, filler caps and covers	●	●
Long drawbar	○	○
Provision mounts for optional bolt-on screens	●	●
Provision mounts for optional reinforced radiator mask	●	●
Rear A/C guard	□	□
Rear screen	□	□
Side screens	□	□
Sprocket inner guard	●	●
Track roller guards, center and end section	●	●
Track roller guards, full length	○	○
Under guard	●	●
Hydraulics and controls		
Accumulator for EPC	●	●
Blade cylinder hoses, standard type	●	●
Electronic float function	●	●
Electronic proportional control (EPC) blade hydraulics with three sensitivity adjustment modes	●	●
Electronic transmission and hydraulic lockout	●	●
Hydraulics for front attachment	●	●
Rear hydraulics for scarifier or level 1 winch	●	●
Powertrain and steering controls		
Combination brake/decel pedal	●	●
Track counter rotation	●	●
Electronically controlled HST with Quickshift (4) or variable (20 speed)	●	●
E/P/H working mode selection	●	●
Palm command control (PCCS) with electronic control	●	●
Reverse speed presets	●	●
Undercarriage and work equipment		
Parallel Link Undercarriage System (PLUS)	●	●
610 mm (24") single grouser track shoes (EX)	●	●
760 mm (30") single grouser track shoes (PX)	●	●
915 mm (36") single grouser track shoes (PX)*2	○	○
8 track/2 carrier rollers (each side)	●	●
Self-adjusting idler support with recoil spring	●	●
Sprockets, segmented with mud relief notches	●	●
Multi-shank scarifier - Weight (including hydraulic control unit) 3,924 lbs. (1,780 kg) - Beam length 7'1" (2,170 mm) - Maximum lift above ground 2'1" (640 mm) - Maximum digging depth 1'11" (580 mm)	○	○
Other equipment		
Grease gun holder	●	●
Marks and plates, for USA and Puerto Rico	●	●
Paint, Komatsu standard	●	●
Parts book and O&M manual	●	●
Shovel holder	●	●

*1 Dozer assembly and rear-mounted equipment are not included in base machine standard equipment. For a complete list of available attachments, please contact your local Komatsu distributor.
*2 Wide specification for use with 169" (915 mm) blade

Standard equipment	●
Optional equipment	○
Optional (field install)	□
Not applicable	-

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