KOMATSU

D71EX/PX-24



Crawler dozer

Engine power
179 kW / 240 HP @ 2100 rpm

Operating weight
22600 kg - 23900 kg

Blade capacity
D71EX-24: 4.42 m^3
D71PX-24: 4.65 m^3
D71PX-24 Wide: 5.02 m^3

D71EX/PX-24





Engine power
179 kW / 240 HP @ 2100 rpm

Operating weight
D71EX-24: 22600 kg
D71PX-24: 23100 kg
D71PX-24 Wide: 23900 kg

Blade capacity
D71EX-24: 4.42 m^3
D71PX-24: 4.65 m^3
D71PX-24 Wide: 5.02 m^3

Increased productivity & outstanding fuel economy

Powerful and environmentally friendly

- Low-consumption EU Stage V engine
- Highly efficient hydrostatic drive line (HST)
- Adjustable auto idle shutdown
- Auto-decelerator
- Auto E-mode



First-class comfort

- Unique super-slant nose design
- Quiet and comfortable cab
- Fully adjustable air-suspended seat
- Integrated rear-view camera

Optimised work equipment

- INPAT blade with adjustable pitch
- Increased work equipment speed
- Multishank parallelogram ripper

State-of-the-art controls

- Extremely manoeuvrable hydrostatic drive
- Variable speed selection or conventional quick shift
- Palm Command Control System (PCCS)
- Large multifunctional monitor with troubleshooting function

Tough and reliable

- Low-drive "PLUS" undercarriage
- Sturdy, rugged design
- Self-adjusting idler support
- Rear-mount radiator with swing-up hydraulic fan
- LED lighting standard

Komtrax

- Komatsu Wireless Monitoring System
- 4G mobile communications
- Integrated communication antenna
- Increased operational data and reports

KOMATSU CARE™ A maintenance program for Komatsu customers



Highly efficient hydrostatic drive line

The hydrostatic drive line is a key factor in the performance of the D71EX/PX-24 dozer. It supplies high drawbar pull when needed and a highly fuel efficient drive line for grading and precision work. With a choice between two operating modes, the operator can select either "quick shift" or "variable speed" to match a complete range of applications in the most economic and easy way.

Hydrostatic transmission (HST) control system

The unique, Komatsu-designed hydrostatic transmission controller monitors the engine output and working equipment or travel load. It controls the HST pumps' and motors' displacement to deliver optimum speed and drawbar pull. In addition, the controller provides ample power to both tracks when turning, enabling counter-rotation at very low speeds and making the D71EX/PX-24 extremely manoeuvrable.

Efficient hydrostatic engine cooling fan

The cooling fan always runs at the lowest convenient speed. Rotation and velocity are electronically adjusted based on the temperature of the engine coolant and hydraulic oil. This reduces fuel consumption and operating noise levels, and requires less horsepower than a belt-driven fan. For extra efficiency, the fan also has a large air outlet surface.

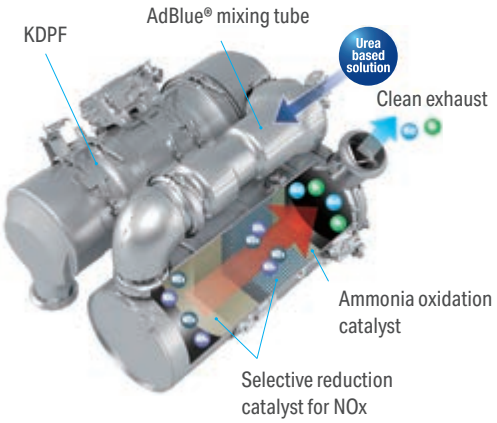
Powerful and environmentally friendly

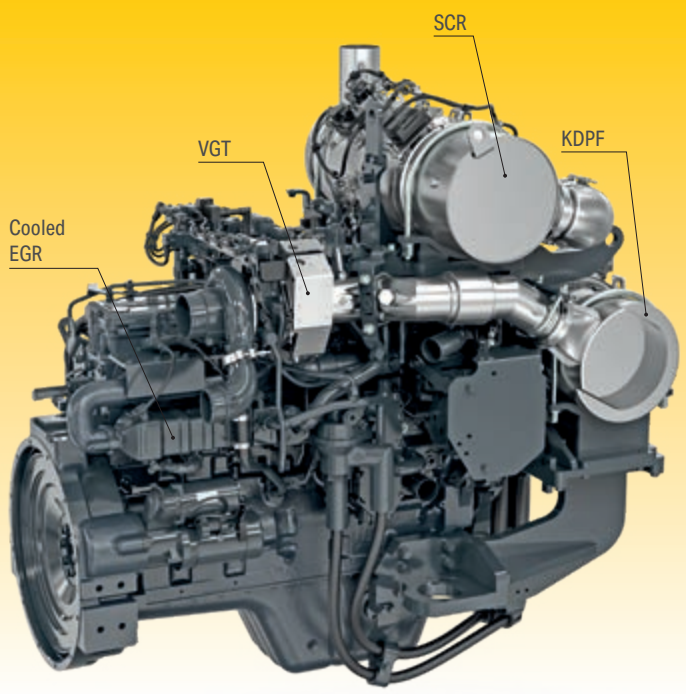
Komatsu EU Stage V

The Komatsu EU Stage V engine is productive, dependable and efficient. With ultra-low emissions, it provides a lower environmental impact and a superior performance to help reduce operating costs and lets the operator work in complete peace of mind.

Heavy-duty aftertreatment

The aftertreatment system combines a Komatsu Diesel Particulate Filter (KDPF) and Selective Catalytic Reduction (SCR). The SCR injects the correct amount of AdBlue® into the system at the proper rate to break down NOx into water (H_2O) and non-toxic nitrogen gas (N_2). NOx emissions are reduced by 80% vs. EU Stage IIIB engines.





Exhaust Gas Recirculation (EGR)

Cooled EGR is a technology well-proven in current Komatsu engines. The increased capacity of the EGR cooler now ensures very low NOx emissions and a better engine performance.

High-Pressure Common Rail (HPCR)

To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.

Komatsu Closed Crankcase Ventilation (KCCV)

Crankcase emissions (blow-by gas) are passed through a CCV filter. The oil mist trapped in the filter is returned back to the crankcase while the filtered gas is returned to the air intake.

Variable Geometry Turbo (VGT)

The VGT provides optimal airflow to the engine combustion chamber under all speed and load conditions. Exhaust gas is cleaner, fuel economy is improved while machine power and performance are maintained.

First-class comfort



Quiet and comfortable cab

Operator comfort is essential for safe and productive work. The cab on the D71EX/PX-24 is quiet and comfortable, an ideal environment to concentrate on the job. Its hexagonal design and large tinted glass windows offer excellent panoramic visibility. The high capacity climate control system pressurises the cab to keep dust out. A high quality sound-absorbent lining covers the interior to minimise noise levels for the operator. The operator can connect his mobile device to the machine's Bluetooth® radio.

The best view

A super slant nose gives the D71EX/PX-24 the best visibility of any dozers on the market. This unique feature dramatically increases efficiency and jobsite safety, with operators now always having full view of both the blade and the ripper and of objects close to them. The new cab-forward design, with integrated ROPS/FOPS and large glass windows, provides more room and places the operator closer to the blade, further improving visibility and comfort. Standard LED lighting further improves visibility around the machine in low light conditions.

Fully-adjustable, heated air-suspended seat

The driver's seat and console are amongst the most important components of the driver's equipment. The comfortable, heavy-duty, air-suspended seat, complete with headrest, gives the operator a secure and comfortable work environment.

Control features

Large TFT colour multifunctional monitor

A large user-friendly colour monitor enables safe, accurate and smooth work. It provides on-hand data to continuously improve productivity and fuel consumption. Multilingual and with all essential information available at a glance, it features simple and easy to operate switches and multifunction keys that provide the operator with fingertip access to a wide range of functions and operating information.

Automatic speed change

Komatsu HST controller always changes the travel speed automatically, depending on load or ground conditions, and efficient operations are facilitated – with no shift shocks. The dozer can work at the optimal speed and drawbar pull point, increasing productivity and fuel efficiency.

Easy operation control

The ergonomic Palm Command Control System (PCCS) provides efficient and comfortable steering of the machine. The blade's electronic control joystick provides precise control. Its reactivity can be customised to the operator's preference, for maximum productivity in any type of application.

Selectable working modes

Working mode can be set to either "Power" for maximum power or to "Economy" for energy saving operations. At light load work, E mode is automatically engaged (Auto E-mode) to further reduce fuel consumption. Combined with a choice between automatic or manual working mode, this lets the operator select the optimum machine power configuration for the work at hand.



Palm Command Control System (PCCS)



Machine operation is simple with the new one-pedal design that integrates brake function into the decelerator pedal. Machine travel speed can be controlled using one pedal. The pedal function can be changed by a mode selector switch.





An evolutionary interface

Helpful information is now easier than ever to find and understand with the upgraded monitor interface. An optimal main screen for the ongoing work can be selected simply by pressing the F3 key.

Lower operating costs

Komatsu ICT contributes to the reduction of operating costs by assisting to comfortably and efficiently manage operations. It raises the level of customer satisfaction and the competitive edge of our products.

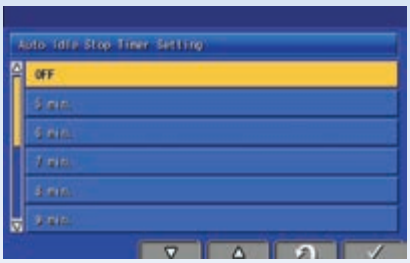
Widescreen monitor

Installed with a choice of 26 languages, the widescreen monitor with simple switches and multifunction keys gives fingertip access to a large range of functions and operating info.

Energy saving features



Eco gauge (left), Eco guidance tips and fuel consumption gauge (right) encourage efficient operation.



Adjustable idle shutdown automatically turns off the engine after it idles for a set period of time. In addition, the new auto-deceleration function automatically lowers engine speed, when levers are in neutral for a set time.



Eco guidance records and fuel consumption history can be displayed on the monitor.

Information & communication technology



Knowledge

You get quick answers to basic and critical questions about your machines – what they're doing, when they did it, where they're located, how they can be used more efficiently and when they need to be serviced. Performance data is relayed by wireless communication technology (satellite, GPRS or 4G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

Convenience

Komtrax enables convenient fleet management on the web, wherever you are. Data is analysed and packaged specifically for effortless and intuitive viewing in maps, lists, graphs and charts. You can foresee eventual maintenance issues and required spare parts, and troubleshoot a problem before Komatsu technicians arrive on site.

KOMTRAX

The way to higher productivity

Komtrax uses the latest wireless monitoring technology. Compatible on PC, smartphone or tablet, it delivers insightful and cost saving information about your fleet and equipment, and offers a wealth of information to facilitate peak machine performance. By creating a tightly integrated web of support it allows proactive and preventive maintenance and helps to efficiently run a business.

Power

The detailed information that Komtrax puts at your fingertips 24 hours a day, 7 days a week gives the power to make better daily and long-term strategic decisions – at no extra cost. Problems can be anticipated, maintenance schedules customised, downtime minimised and machines kept where they belong: working on the jobsite.



Work equipment

Komatsu blades

For increased blade performance and better machine balance, Komatsu uses a box blade design, with the highest resistance for a light weight blade. Special highly wear resistant steel is used for the front and sides of the blade to increase durability. The deep curved design of the blade makes it easy to handle a wide range of materials, with good penetration and a large capacity, optimising high dozing performance with excellent fuel efficiency.

Komatsu rippers

Komatsu rippers were designed to combine the highest productivity with a long lifetime. The shank is fitted with special wear parts that increase longevity, and offer the best penetration in various types of materials.

Multishank parallelogram ripper (option)

The multishank parallelogram ripper has 3 ripper shanks as standard, but can be easily converted to a single or two-shank ripper, depending on job conditions. The strong parallelogram design offers straight shank movement, adapted for tough applications.



Foldable blade option

To keep a transport width of only 3.0 meters, this optional blade can be folded and unfolded in just a few minutes, without needing any tools.

Straight Power Angle Tilt blade with adjustable pitch

The straight Power Angle Tilt blade (INPAT), offers a wide range of working modes. The large diameter centreball design offers a strong and durable solution for the blade attachment to the INPAT frame reducing maintenance costs. A fold-up INPAT version of the blade for the PX machines guarantees a transport width of 3 metres and easy transportation between job-sites.




KOMATSU

Tough and reliable

EX undercarriage

The EX undercarriage has been specially designed for working on hard ground. The small to medium-width shoes and PLUS link assembly ensure a large contact area between the machine and the ground for maximum stability, grading performance and undercarriage lifetime.

PX undercarriage

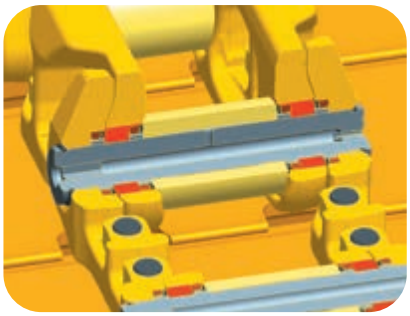
The PX undercarriage is ideal for working on soft surfaces. The wide shoes and PLUS link assembly ensure a large contact area between the machine and the ground for maximum stability, grading performance and undercarriage lifetime.

Low-drive “PLUS” undercarriage

Komatsu’s low-drive Parallel Link Undercarriage System (PLUS) is extraordinarily tough, with excellent grading performance and stability. It features PLUS link assemblies, a highly reliable rotating bushing concept, substantial track link height, superior oil seals and track guards that maximise undercarriage durability. For easier servicing, the equaliser bar’s centre pin is remotely greased. The segmented sprockets are notched to considerably improve the evacuation of mud and further increase the PLUS undercarriage lifetime.



Individual links can be replaced with common track tools



Rotating bushings





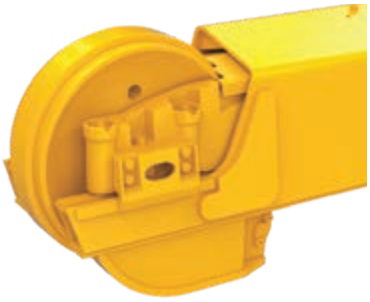
Sturdy, rugged design

A high-rigidity simple hull frame structure combined with thick plates and steel castings provide increased reliability and durability. All hydraulic piping is robustly protected by cover and inner route to ensure damage protection from materials.



Modular design

The D71EX/PX-24 was designed and manufactured to have low maintenance costs and a long lifetime. This was achieved mainly by reducing component complexity and with a strong modular design.



Self-adjusting idler support

The self-adjusting idler support provides constant and even tension on idler guide plates. It reduces noise levels and vibrations and increases undercarriage life.



Easy maintenance



Reversible swing-up fan

The D71EX/PX-24 includes a swing-up fan with a gas strut-assisted lift locking system to provide easy access to the radiator, oil cooler, and charge air cooler. The operator can switch the hydraulic fan to "cleaning" mode so that it rotates in reverse at full speed to clean the radiators, reducing maintenance costs and improving fuel efficiency.



Simple and convenient service

Daily service and maintenance checks are made easy and safe. Sampling ports, remote grease points and service points are accessible from ground level. The engine fuel and oil filters are easily accessible in the front of the engine compartment, thanks to the location of the cooling fan at the rear of the machine.



Self-diagnostic monitor

The multifunction monitor panel displays the running time, engine revs, fuel level and water coolant temperature in real time. It also provides the operator with maintenance and service information, if oil filters need replacing or any abnormality occurs. In addition, it supplies Komatsu mechanics with detailed information, with no need for external service tools.

Komatsu Care

Komatsu Care is a maintenance program that comes as standard with your new Komatsu machine. It covers factory-scheduled maintenance, performed with Komatsu Genuine parts by Komatsu-trained technicians. Depending on your machine's engine, it also offers extended coverage of the Komatsu Diesel Particulate Filter (KDPF) or the Komatsu Diesel Oxidation Catalyst (KDOC), and of the Selective Catalytic Reduction (SCR). Please contact your local Komatsu distributor for terms and conditions.

Modular power train

All the power train components are enclosed in a sealed module. This eliminates oil spills during mounting and dismounting, and prevents dust and dirt polluting individual components. Servicing is much cleaner, smoother and easier.

AdBlue® tank

The AdBlue® tank is easily accessible on the left hand side of the machine.





Safety first

Optimal jobsite safety

Safety features on the Komatsu D71EX/PX-24 comply with the latest industry standards and work in synergy to minimise risks to people in and around the machine. When the operator seat is empty, a presence-sensing system locks out the hydraulics to prevent unwanted machine movements. A seat belt caution indicator and an audible travel alarm further increase safety.



LED lighting system

Long life, high lumen LED lights are standard on the machine. They are ideally positioned to give an optimal illumination of the work area.



Tie-off points

Tie-off points have been installed for connecting workers' safety belts during maintenance and cleaning tasks, ensuring secure operations.



Rear-view camera system

The rear-view monitor gives the operator a clear view of the rear area of the machine or the ripper. This allows to focus on the work at hand, even in low light conditions.

Specifications

Engine

Model	Komatsu SAA6D114E-6
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2100 rpm
ISO 14396	179 kW / 240 HP
ISO 9249 (net engine power)	177 kW / 237 HP
No. of cylinders	6
Bore × stroke	114 mm × 144.5 mm
Displacement	8.85 l
Fan drive type	Hydraulic, reversible
Lubrication system	
Method	Gear pump, force lubrication
Filter	Full flow
Fuel	Diesel fuel, conforming to EN590 Class 2/Grade D. Paraffinic fuel capability (HVO, GTL, BTL), conforming to EN 15940:2016

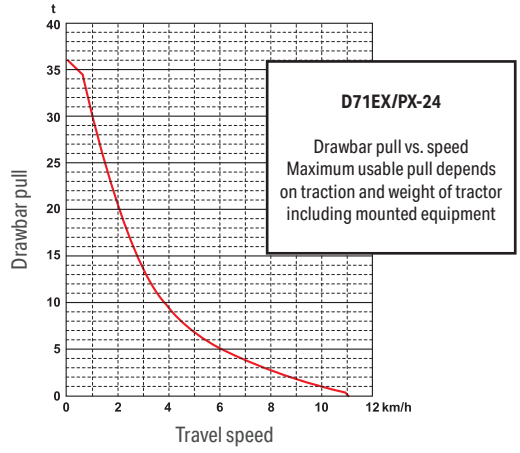
Hydrostatic transmission

Dual-path, hydrostatic transmission provides infinite speed changes up to 11.0 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.

Max. travel speeds (EX/PX)

Quick shift mode*	Forward	Reverse
1st	0 - 3.8 km/h	0 - 4.5 km/h
2nd	0 - 6.5 km/h	0 - 7.5 km/h
2.5th	0 - 8.4 km/h	0 - 9.3 km/h
3rd	0 - 11.0 km/h	0 - 11.0 km/h
Variable speed mode	Forward	Reverse
	0.8 - 11.0 km/h	0.8 - 11.0 km/h

* Quick shift speeds are adjustable on the monitor



Final drive

Type	In-shoe mounted axial piston type travel motors with integrated two-stage planetary gear reduction
Sprocket	Segmented sprocket teeth are bolt-on for easy replacement

Steering system

Type	Hydrostatic Steering System (HSS)
Steering control	PCCS-lever
Minimum turning radius (counter-rotation) as measured by track marks on ground	
D71EX/PX-24	3.1 m
D71PX-24 Wide	3.3 m

Undercarriage

Tracks	PLUS link assembly
Number of shoes (each side)	45
Track rollers (each side)	8
Carrier rollers (each side)	2
Shoe width (standard)	
D71EX-24	610 mm
D71PX-24	760 mm
D71PX-24 Wide	915 mm
Ground contact area (ISO 16754)	
D71EX-24	39960 cm^2
D71PX-24	49780 cm^2
D71PX-24 Wide	59930 cm^2
Ground pressure (ISO 16754)	
D71EX-24	0.57 kgf/cm^2
D71PX-24	0.46 kgf/cm^2
D71PX-24 Wide	0.40 kgf/cm^2

Environment

Engine emissions	Fully complies with EU Stage V exhaust emission regulations
Noise levels	
LwA external	108 dB(A) (2000/14/EC Stage II)
LpA operator ear	78 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm (EX)	≤ 2.5 m/s^2 (uncertainty K = 0.86 m/s^2)
Body (EX)	≤ 0.5 m/s^2 (uncertainty K = 0.28 m/s^2)
Hand/arm (PX)	≤ 2.5 m/s^2 (uncertainty K = 1.10 m/s^2)
Body (PX)	≤ 0.5 m/s^2 (uncertainty K = 0.27 m/s^2)
Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 1.2 kg; CO_2 equivalent 1.72 t	

Operating weight (appr.)

Including INPAT blade, hitch, ROPS/FOPS cab, operator, rated capacity of lubricant, coolant, and full fuel tank.	
D71EX-24	22600 kg
D71PX-24	23100 kg
D71PX-24 Wide	23900 kg

Service refill capacities

Fuel tank	439 l
Radiator	54.5 l
Engine oil	30.5 l
Hydraulic tank	154 l
Final drive (each side)	10 l
AdBlue® tank	20 l

Hydraulic system

Type	CLSS (closed-centre load sensing system)
All spool valves externally mounted beside the hydraulic tank	
Maximum pump flow	235 l/min
Relief valve setting	294 kgf/cm²
Spool control valve positions	
Blade lift	Raise, hold, lower, and float
Blade tilt & angle	Right, hold, and left
Additional control valve positions for ripper	
Ripper lift	Raise, hold, and lower
Hydraulic cylinders	Double-acting, piston
No. of cylinders × bore	
Blade lift	2 × 120 mm
Blade tilt	1 × 130 mm
Blade angle	2 × 110 mm

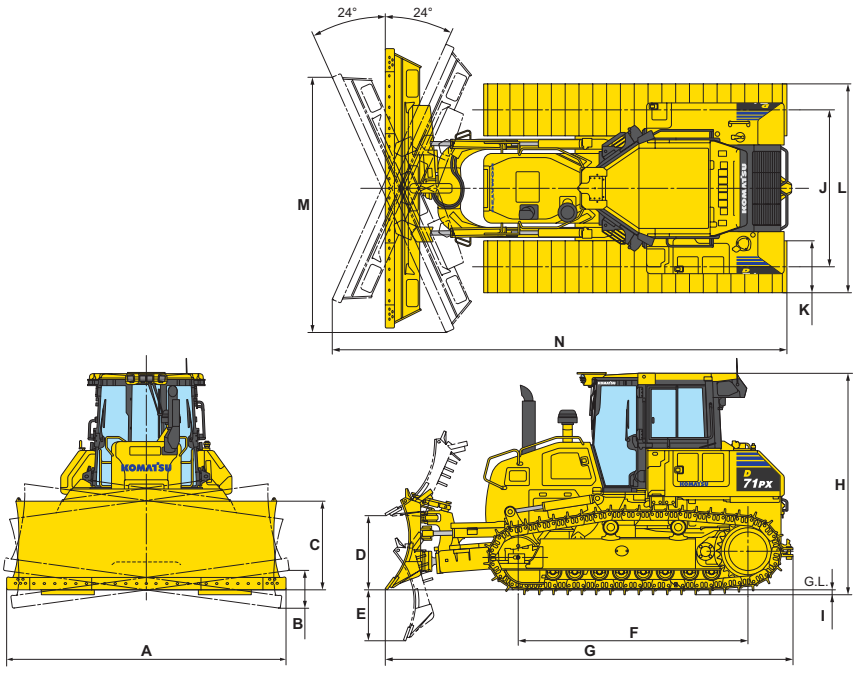
Multishank ripper

Type	Hydraulically controlled parallelogram ripper
No. of shanks	3
Weight (including hydraulic control unit)	1900 kg
Beam length	2170 mm
Maximum lift above ground	640 mm
Maximum digging depth	580 mm

Machine dimensions

	D71EX-24	D71PX-24	D71PX-24 Wide
A	3870 mm	4010 mm	4295 mm
B	500 mm	515 mm	555 mm
C	1265 mm	1265 mm	1265 mm
D	1090 mm	1090 mm	1090 mm
E	705 mm	705 mm	705 mm
F	3275 mm	3275 mm	3275 mm
G	5810 mm	5810 mm	5810 mm
H	3170 mm	3170 mm	3170 mm
I	65 mm	65 mm	65 mm
J	2230 mm	2230 mm	2385 mm
K	610 mm	760 mm	915 mm
L	2840 mm	2990 mm	3300 mm
M	3575 mm	3705 mm	3970 mm
N	6515 mm	6540 mm	6600 mm

Ground clearance: 410 mm (+ grouser height)



Dozer equipment

	Overall length with dozer	Blade width × height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment
4.42 m³ INPAT blade (EX)	5810 mm	3870 mm × 1265 mm	1090 mm	705 mm	500 mm
4.65 m³ INPAT blade (PX)	5810 mm	4010 mm × 1265 mm	1090 mm	705 mm	515 mm
5.02 m³ INPAT blade (PX Wide)	5810 mm	4295 mm × 1265 mm	1090 mm	705 mm	555 mm

Blade capacities are based on the SAE recommended practice J1265.

Standard and optional equipment

Engine

Komatsu SAA6D114E-6 turbocharged common rail direct injection diesel engine	●
EU Stage V compliant	●
Cooling fan, hydrostatic driven with reversing function	●
Auto-deceleration function	●
Adjustable idle shutdown	●
Working mode selection system; P-mode (Power), E-mode (Economy) and Auto E-mode	●
Fuel pre-filter (10 micron) and fuel filter (2 micron)	●
Fuel tank inlet strainer	●
Alternator 24 V / 90 A	●
Starter motor 24 V / 11 kW	●
Batteries 2 × 12 V / 200 Ah	●

Transmission and brakes

Electronically controlled HST	●
Palm lever steering control (PCCS)	●
Quick shift selection system	●
Variable speed mode	●
Reverse speed presets	●
Combined decelerator/brake pedal	●

Undercarriage

Komatsu PLUS link assembly	●
Single grouser heavy-duty shoes (EX: 610 mm; PX: 760 mm; PX Wide: 915 mm)	●
Segmented sprockets	●
Idler cushions	●
Track roller guard, centre and end section	○
Full length track roller guard	○

LED lighting system

LED working lights, 4 front, 2 rear	●

Hydraulic system

Hydraulics for dozing blades	●
Mono lever blade control	●
Hydraulics for ripper incl. anti-drop valve	●

Cabin

Air-suspended seat: fabric, reclining, heated & ventilated, high backrest, with lumbar support	●
High mount footrest	●
Air conditioner	●
Radio with Bluetooth®	●
Auxiliary input (MP3 jack)	●
USB port for charging	●
2 × 12 Volt power supply (120 W)	●
1 × 24 Volt power supply	●
Viscous cab mounts	●
Rear-view mirror (inside cab)	●
Front window sun roller blind	●
Wiper front window	●
Wiper rear window	●
Wipers doors	●
Cup holder	●

Service and maintenance

Swing-out hydrostatic-driven radiator fan with reversing function	●
Dry type air cleaner, double element with dust indicator and evacuator	●
Air pre-cleaners	●
Fuel filter with water separator	●
Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
Komtrax – Komatsu wireless monitoring system (4G)	●
Komatsu Care – a maintenance program for Komatsu customers	●
Tool kit	●
Grease gun holder	●
Shovel holder	●
Sampling ports for oils and coolant	●

Safety equipment

Steel cab, meets ISO 3471 and SAE J1040, APR88 ROPS standards, as well as ISO 3449 FOPS standards	●
Horn	●
Locks, filter caps and covers	●
Back-up alarm	●
Rear-view camera system	●
Battery main switch (lockable)	●
Secondary engine shutdown switch	●
Seat belt caution indicator	●
Tie-off points	●
Handrails	●
Operator presence sensing system	●

Dozer equipment

4.42 m^3 INPAT blade (EX)	●
4.65 m^3 INPAT blade (PX)	●
5.02 m^3 INPAT blade (PX Wide)	●
2D-iB pole installation seats (on all blades)	●
4.65 m^3 INPAT blade foldable (PX)	○

Other equipment

Front pull hook	●
Hitch	●
Multishank parallelogram ripper (EX)	○
Rigid drawbar	○

Further equipment on request

● standard equipment
○ optional equipment



A wide range of blades and attachments is available. Your Komatsu distributor is ready to assist you with the selection of suitable options.

This specification sheet may contain attachments and optional equipment that are not available in your area.
Please consult your local Komatsu distributor for those items you may require.
Materials and specifications are subject to change without notice.

Your Komatsu partner:

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