KOMATSU

D37EX-24
D37PX-24

EU Stage IV Engine

D37

CRAWLER DOZER

ENGINE POWER
67,7 kW / 90,7 HP @ 2.200 rpm

OPERATING WEIGHT
D37EX-24: 9.000 kg
D37PX-24: 9.300 kg

BLADE CAPACITY
D37EX-24: 1,91 m³
D37PX-24: 2,13 m³

Walk-Around

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67,7 kW / 90,7 HP @ 2.200 rpm

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BLADE CAPACITY
D37EX-24: 1,91 m³
D37PX-24: 2,13 m³

INCREASED PRODUCTIVITY & OUTSTANDING FUEL ECONOMY

Powerful and Environmentally Friendly

- Low consumption EU Stage IV engine
- Highly efficient hydrostatic drive line (HST)
- Adjustable auto idle shutdown
- 100% passive regeneration and requires no DPF

Optimised Work Equipment

- INPAT blade with adjustable pitch
- Multishank parallelogram ripper

First-Class Operator Comfort

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

State-of-the-Art Controls

- Palm Command Control System joysticks (PCCS)
- HST with automatic speed changes
- Large TFT colour multi-monitor

Tough and Reliable

- Low-drive “PLUS” undercarriage
- Sturdy, rugged design
- Self-adjusting idler support
- Rear-mount radiator with swing-up hydraulic fan

KOMTRAX

- Komatsu Wireless Monitoring System
- 3G mobile communications
- Integrated communication antenna
- Increased operational data and fuel savings

KOMATSU CARE™

A maintenance program
for Komatsu customers

Powerful and Environmentally Friendly

Highly efficient hydrostatic drive line

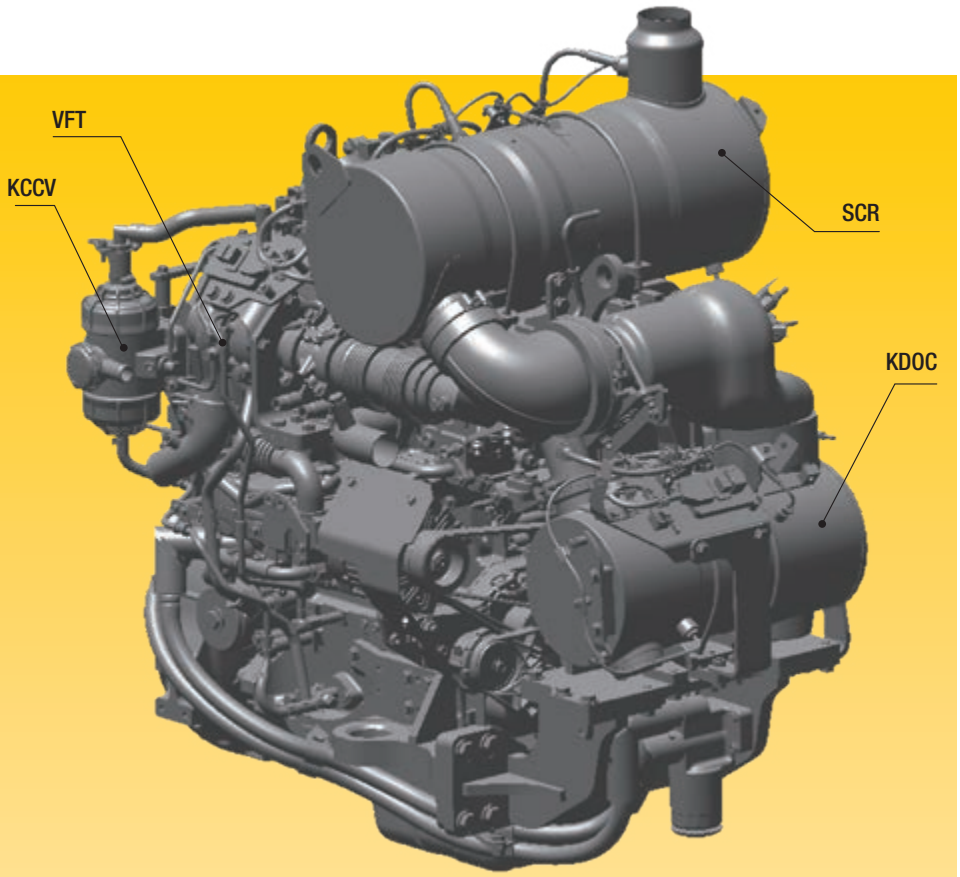
The hydrostatic drive line is a key factor in the performance of the D37-24 dozer. It supplies high drawbar pull when needed and a highly fuel efficient drive line for grading and precision work. With a choice between two operating modes, the operator can select either “quick-shift” or “variable speed” 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 D37-24 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.



Komatsu EU Stage IV

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

Heavy-duty aftertreatment

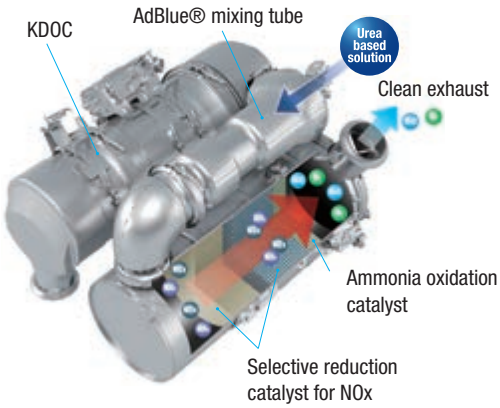
The aftertreatment system combines a Komatsu Diesel Oxidation Catalyst (KDOC) and Selective Catalytic Reduction (SCR). The SCR injects the correct amount of AdBlue® into the system at the proper rate to break down NOx into water (H_2O) and non-toxic nitrogen gas (N_2).

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.

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.

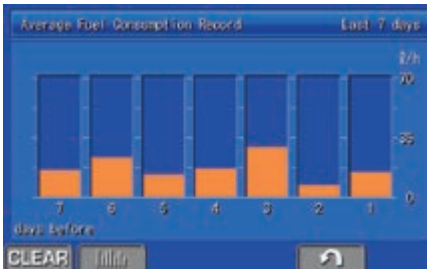
High-Pressure Common Rail (HPCR)
To achieve complete fuel burn and lower exhaust emissions, the heavy-duty High-Pressure Common Rail fuel injection system is computer controlled to deliver a precise quantity of pressurised fuel into the redesigned engine combustion chamber by multiple injections.

Variable Flow Turbocharger (VFT)
Varies the intake airflow. The wheel speed of the exhaust turbine is controlled by a valve for optimum air flow to the engine combustion chamber, under any load or speed conditions. The exhaust gas is cleaner, with no reduction in power or performance.



Adjustable idle shutdown automatically turns off the engine after it idles for a set period of time

Eco-gauge, Eco guidance and fuel consumption gauge



Fuel consumption history

Optimised 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 Komatsu 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.

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.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D37PX

First-Class Comfort

Quiet and comfortable cab

Operator comfort is essential for safe and productive work. The cab on the D37-24 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 best view

A super slant nose gives the D37-24 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.

Fully-adjustable, heated air suspension seat

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

State-of-the-Art Controls

Large TFT colour multi 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 customized 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. 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)

Combined decelerator/brake pedal

Fully integrated rear-view camera system

Information & Communication Technology

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

Conveniently customisable and 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. An AdBlue® level gauge is now incorporated into the default main screen.

An evolutionary interface

Helpful information is now easier than ever to find and understand with the upgraded monitor interface. The main screen can be simply optimised to the operator's preference by just pressing one button.

Quick view on the operation logs

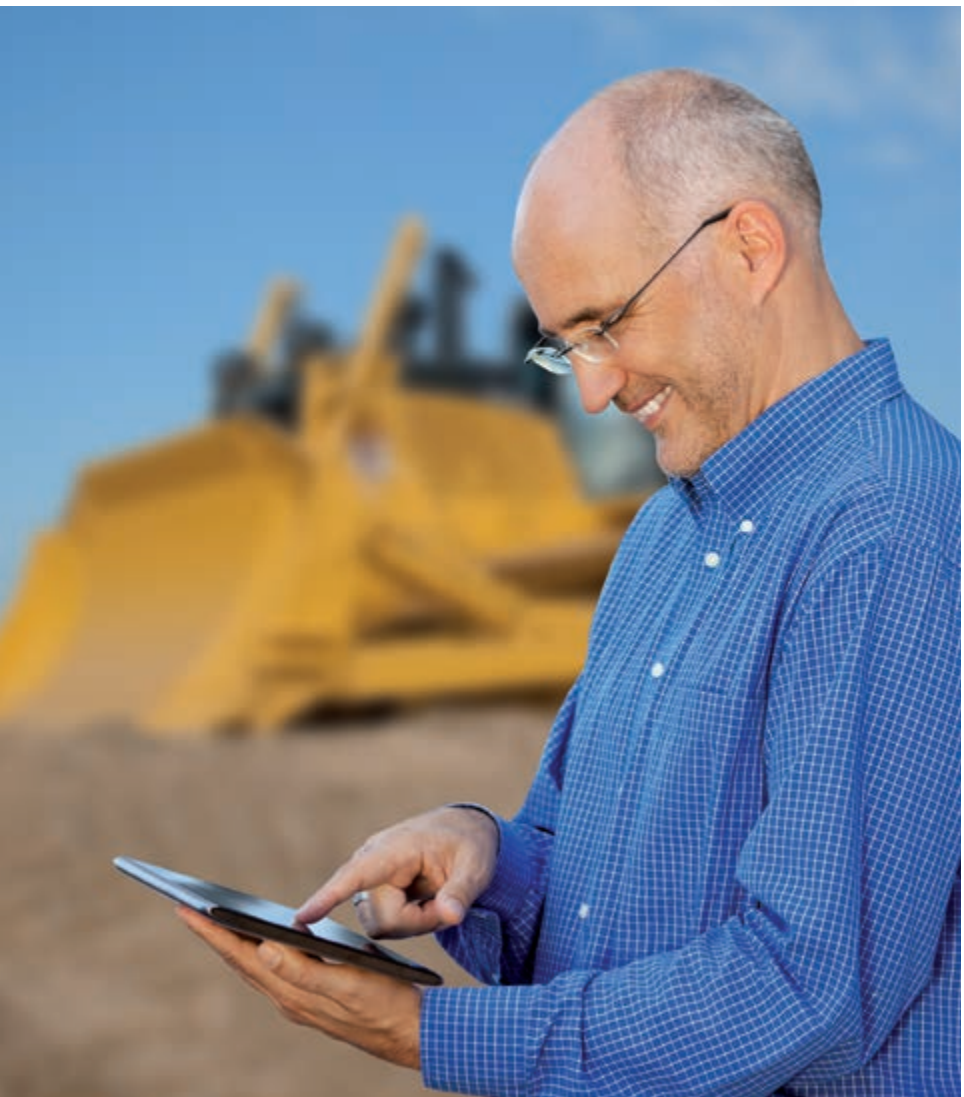
All information at a glance

Operator identification function

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.



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 3G depending on model) from the machine to a computer and to the local Komatsu distributor – who's readily available for expert analysis and feedback.

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.

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.

Easy Maintenance

Reversible swing-up fan

The D37-24 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

Well located service doors allow convenient and safer ground access to daily service points. With the radiator located at the rear of the machine, engine fuel and oil filters can be easily accessed from the front of the engine compartment. Remote grease points facilitate lubrication of the C-frame pivots and angle cylinder bearing.

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.

Tough and Reliable

Low-drive "PLUS" undercarriage

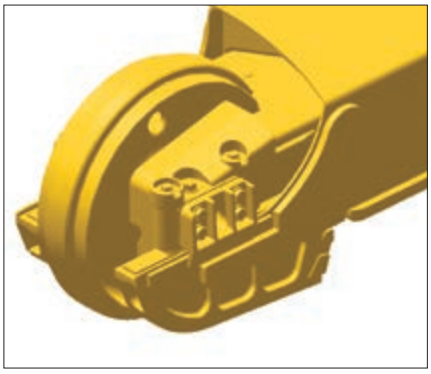
Komatsu's low-drive Parallel Link Undercarriage System (PLUS) is extraordinarily tough, with excellent grading performance and stability. It features PLUS link assemblies, a highly reliable floating bushing concept, substantial track link height, superior oil seals and track guards that maximise undercarriage 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.

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.



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.

Modular design

D37-24 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.

Specifications

ENGINE

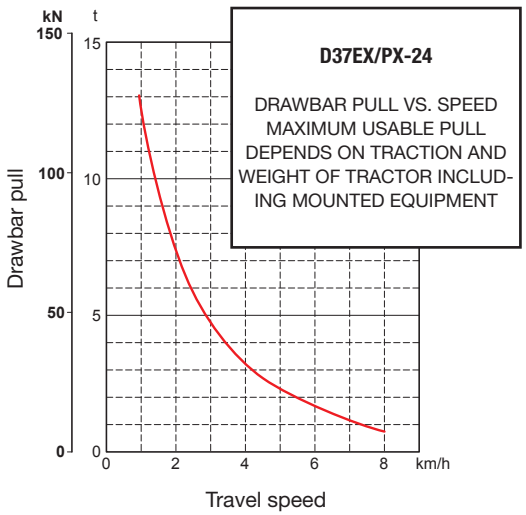
Model	Komatsu SAA4D95LE-7
Type	Common rail direct injection, water-cooled, emissionised, turbocharged, after-cooled diesel
Engine power	
at rated engine speed	2.200 rpm
ISO 14396	67,7 kW/90,7 HP
ISO 9249 (net engine power)	66,1 kW/88,6 HP
No. of cylinders	4
Bore × stroke	95 × 115 mm
Displacement	3,26 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 (HST)

Dual-path, hydrostatic transmission provides infinite speed changes up to 8,5 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 - 3,4 km/h	0 - 4,1 km/h
2nd	0 - 5,6 km/h	0 - 6,5 km/h
3rd	0 - 8,5 km/h	0 - 8,5 km/h
Variable speed mode	Forward	Reverse
	0 - 8,5 km/h	0 - 8,5 km/h



STEERING SYSTEM

Type	Hydrostatic Steering System (HSS)
Steering control	PCCS-lever
Min. turning radius (counter-rotation)	
D37EX-24	2,1 m
D37PX-24	2,3 m

UNDERCARRIAGE

Suspension	Rigid type
Track roller frame	Monocoque, large section, durable construction
Tracks	PLUS link assembly
Track tension	Combined spring and hydraulic unit
Number of shoes (each side)	41
Grouser height (single grouser)	47 mm
Track rollers (each side)	6
Carrier rollers (each side)	1
Shoe width (standard)	
D37EX-24	400 mm
D37PX-24	600 mm
Ground contact area (ISO 16754)	
D37EX-24	20.024 cm²
D37PX-24	30.036 cm²
Ground pressure (ISO 16754)	
D37EX-24	0,45 kg/cm²
D37PX-24	0,31 kg/cm²

OPERATING WEIGHT (APPR.)

Including INPAT blade, hitch, ROPS/FOPS cab, operator, rated capacity of lubricant, coolant, and full fuel tank.

D37EX-24	9.000 kg
D37PX-24	9.300 kg

ENVIRONMENT

Engine emissions	Fully complies with EU Stage IV exhaust emission regulations
Noise levels	
LwA external	104 dB(A) (2000/14/EC Stage II)
LpA operator ear	77 dB(A) (ISO 6396 dynamic test)
Vibration levels (EN 12096:1997)	
Hand/arm (EX)	≤ 2,5 m/s² (uncertainty K = 0,80 m/s²)
Hand/arm (PX)	≤ 2,5 m/s² (uncertainty K = 1,06 m/s²)
Body (EX)	≤ 0,5 m/s² (uncertainty K = 0,29 m/s²)
Body (PX)	≤ 0,5 m/s² (uncertainty K = 0,27 m/s²)

Contains fluorinated greenhouse gas HFC-134a (GWP 1430). Quantity of gas 0,9 kg, CO_2 equivalent 1,29 t

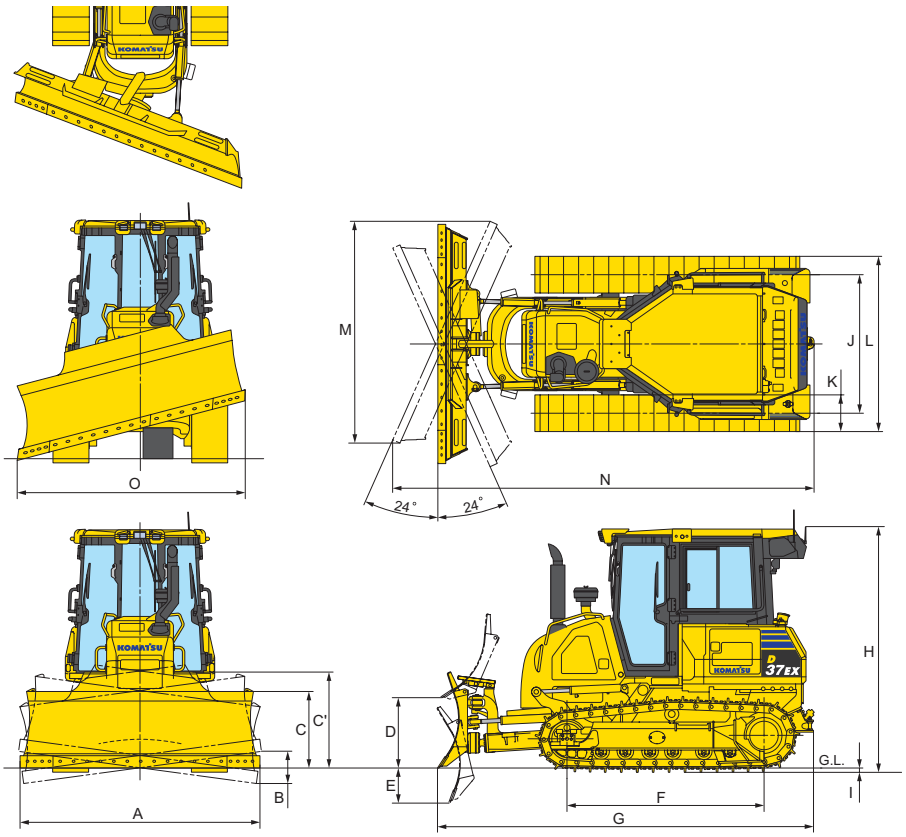
FINAL DRIVE

Type	Spur and planetary gear, double-reduction
Sprocket	Segmented sprocket teeth are bolt-on for easy replacement

DIMENSIONS

	D37EX-24	D37PX-24
A	2.710 mm	3.200 mm
B	370 mm	435 mm
C	865 mm	835 mm
C'	1.075 mm	1.075 mm
D	800 mm	800 mm
E	380 mm	380 mm
F	2.230 mm	2.230 mm
G	4.275 mm	4.275 mm
H	2.785 mm	2.785 mm
I	47 mm	47 mm
J	1.570 mm	1.710 mm
K	400 mm	600 mm
L	1.970 mm	2.310 mm
M	2.510 mm	2.960 mm
M*	–	2.670 mm
N	4.780 mm	4.880 mm
O	2.480 mm	2.905 mm
O*	–	2.615 mm

* 1,95 m³ narrow INPAT blade
Ground clearance: 325 mm (+ grouser height)



HYDRAULIC SYSTEM

Type	CLSS (closed-centre load sensing system)
All spool valves externally mounted beside the hydraulic tank.	
Maximum pump flow	99 l/min
Relief valve setting	280 kg/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 × 75 mm
Blade tilt	1 × 90 mm
Blade angle	2 × 80 mm

MULTISHANK RIPPER

Type	Hydraulically controlled parallelogram ripper
No. of shanks	3
Weight (including hydraulic control unit)	680 kg
Beam length	1.570 mm
Maximum lift above ground	400 mm
Maximum digging depth	330 mm

SERVICE REFILL CAPACITIES

Fuel tank	190 l
Radiator	34 l
Engine oil	11 l
Hydraulic tank	64 l
Final drive (each side)	3,5 l
AdBlue® tank	10 l

DOZER EQUIPMENT

	Overall length with dozer	Blade width × height	Maximum lift above ground	Maximum drop below ground	Maximum tilt adjustment	Blade angle
1,91 m³ INPAT blade (EX)	4.275 mm	2.710 mm × 865 mm	800 mm	380 mm	370 mm	24°
2,13 m³ INPAT blade (PX)	4.275 mm	3.200 mm × 835 mm	800 mm	380 mm	435 mm	24°
1,95 m³ narrow INPAT blade (PX)	4.275 mm	2.875 mm × 835 mm	800 mm	380 mm	390 mm	24°

Blade capacities are based on the SAE recommended practice J1265.

Standard and Optional Equipment

D37EX / PX-24

ENGINE AND RELATED PARTS

Komatsu SAA4D95LE-7 turbocharged common rail direct injection diesel engine	●
EU Stage IV compliant	●
Fuel pre-filter (10 micron) and fuel filter (2 micron)	●
Exhaust pipe with elbow	●
Intake pipe with rain cap	●
Alternator 24 V/85 A	●
Starter motor 4,5 kW/24 V	●
Batteries 92 Ah/2 × 12 V	●
Fuel tank inlet strainer	●
Intake pipe with air pre-cleaner	○

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: 400 mm; PX: 600 mm)	●
Segmented sprockets	●
Idler cushions	●
Track roller guard, centre and end section	●
Full length track roller guard	○
Single grouser heavy-duty shoes 460 mm (EX)	○

LIGHTING SYSTEM

Working lights, 3 cab roof front, 2 cab roof rear	●

SERVICE AND MAINTENANCE

Swing-out hydrostatic-driven radiator fan with reversing function	●
Dry type air cleaner, double element with dust indicator and evacuator	●
Water separator	●
Multi-function video compatible colour monitor with Equipment Management and Monitoring System (EMMS) and efficiency guidance	●
KOMTRAX – Komatsu wireless monitoring system (3G)	●
Komatsu CARE™ – a maintenance program for Komatsu customers	●
Tool kit	●
Grease gun holder	●
Shovel holder	●

CABIN

Air suspension seat: fabric, reclining, heated, high backrest	●
Seat belt with visible alert	●
High mount footrest	●
Air conditioner	●
Radio	●
Auxiliary input (MP3 jack)	●
2 × 12 Volt power supply (120 W)	●
1 × 24 Volt power supply	●
Viscous cab mounts	●
Rear-view mirror (inside cab)	●
Wiper front window	●
Wiper rear window	●
Wipers doors	●
Cup holder	●
Lunch box holder	●

HYDRAULIC SYSTEM

Hydraulics for dozing blades	●
Mono lever blade control	●
Hydraulics for ripper	○

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	●
Fire extinguisher	○

ATTACHMENTS

Front pull hook	●
Hitch (not with ripper)	●
Multishank parallelogram ripper	○

DOZER EQUIPMENT

1,91 m³ INPAT blade (EX)	●
2,13 m³ INPAT blade (PX)	●
1,95 m³ narrow INPAT blade (PX)	○

Further equipment on request

● standard equipment
○ optional equipment

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