

Wheeled Excavators **DX170W-5**







Doosan Group – Building your tomorrow today

Be part of the great Doosan family

The Doosan Group - founded in 1896 and headquartered in Seoul, South Korea - is one of the fastest-growing companies in the world:

- With more than 37,500 employees in 38 countries, we are a major player in a variety of industries worldwide.
- A global leader in the Infrastructure Support Business (ISB), with 56 subsidiaries and 3,700 distributors worldwide.
- Dramatic growth over the past two decades, with an annual Doosan Group revenue rising from €2.4 billion in 1998 to €12.8 billion in 2016.

Doosan Group – a top player worldwide



Doosan Infracore

• Among the world's Top 5 manufacturers of construction equipment



Doosan Bobcat

- A leading company in the design, manufacture, marketing, distribution and service of small equipment and attachments for construction,
 World N° 1 in desa
 World N° 1 in heat
- agriculture, and landscaping

 Leading position in the global compact equipment market
- N° 1 in North America for SSL, CTL and MEX



Doosan Heavy Industries & Construction

- World N° 1 in desalination plant construction
 World N° 1 in heat recovery steam generator
- market • World N° 1 in mould & tool steel
- World N° 3 in crankshafts



Doosan Engineering & Construction

- A pioneering leader in construction of residential and public buildings, civil works and industrial facilities.
- World N° 1 chemical process equipment products









Doosan Infracore Construction Equipment

Creating construction equipment for over 40 years

For over 40 years, we've been building a global production and business network to become one of the world's foremost construction equipment manufacturers.

A solid partner, close to you

A truly global player in every respect, we have large-scale factories, sales subsidiaries and dealers all over the world.



Doosan facilities in Europe

From machine manufacturer... to full solution provider

To ensure the highest trade-in and residual values, our parts and service support professionals maintain the performance, productivity and reliability that you expect of our products throughout their lifetime.

Ask your dealer for a full range of services designed especially for you!

As your local specialist, your dealer ensures that you receive the maximum benefit from our integrated package. Plan ahead to ensure the success of your equipment!

















Doosan approved Genuine parts attachments

Extension of warranty

Financial solutions

Maintenance contract

Telematics

Monitoring systems



Experience the Doosan product range!



Articulated Dump Trucks

Wheel Loaders

Wheeled Excavators

Mini Excavators

Crawler Excavators

Raise profits, productivity & fuel efficiency

▶ High productivity & low cost of ownership

Delivers higher productivity & reduced fuel consumption in an efficient & comfortable work environment.

Work lights: As standard: 2 front frame, 4 front & 2 rear cab-mounted, 2 boom mounted and 1 rear side.

Reliability: Reinforced castings and forged steel pivot points and reinforced heavy-duty arm and boom to withstand high-impact materials. Large, robust boom and arm cylinders for smooth, powerful operation. Advanced pin & bushing technology.

> Productivity: Increased digging power, lifting capacities and traction force.

Safety: Rear camera as standard and side camera as option, large side mirrors, powerful lighting, anti-slip steps. Guard rails on upper structure.

> ♥ Various applications: one-piece & twopiece boom configurations are available to suit your different applications.

DOOSAN CONNECT

 Telematics: Monitor your fleet online.
 As standard, Doosan Connect system with dual mode (satellite, GSM).
 Check productivity, fuel consumption, system warnings, maintenance status, etc.

● Front axle oscillation: For more comfort. Can be automatically or manually activated for better lifting or digging.

● Frame durability: Chassis frame and outrigger frames have been reinforced to reduce stress and improve durability.

DOOSAN



• Comfort: One of the most spacious cabs in the market, with low noise & vibration levels and excellent all-round visibility. Extra-large door for easy access. Fully adjustable heated air suspension seat, air conditioning with climate control as standard.

modes, proportional control, user-friendly 7" TFT LCD colour monitor. 2 speeds (high, low + creep) with cruise control and 3 front axle oscillation lock modes (On/Off/Auto) **3X170**u

• Power: Exceptionally powerful - with high torque at low revs - the Stage IV compliant Doosan DLo6P engines are free from Diesel Particulate Filter (DPF) and associated regeneration system for more fuel efficiency.

• Controllability: Exclusive jog shuttle switch, 4 work & 4 power

• Efficient fuel management: The evolution of the Doosan DLo6 to DLo6P allows up to 5% fuel saving. A new SPC (Smart Power Control) system, combined with settable engine shut-off & auto-idle, provides an additional reduction of up to 5%.

• Electric fan clutch: For optimum cooling, fan speed is controlled electronically by a fan clutch, resulting in lower fan noise and better fuel efficiency.

• Easy maintenance: Easy access to all compartments. Maintenance data directly available from control panel.

Output Advanced filtration: Highest efficiency filters & cleaners remove water, dust & particles to protect your investment optimally.



Efficient & safe: Excellent ground clearance for better protection in rough terrain.

Top performance and fuel efficiency



D The power to raise productivity

The DX170W-5 takes even the heaviest tasks in its stride with efficient, dependable performance that saves you time and money:

- Improved hydraulic system uses the engine's power more effectively, maximising pump output and offering more comfort, smoothness and accuracy
- Increased digging power, lifting capacities and traction force combine for performance you can rely on, day after day
- Greater fuel efficiency means you can keep costs down and reduce environmental impact



OPTIMISED POWER MANAGEMENT

The DX170W-5 is equipped with a Doosan engine. Famous for excellent fuel efficiency, reliability and long service life, it combines exceptional power output and high torque at low revs. Engine is fitted with common rail fuel injection combined with a wastegate turbocharger, which increases the density of the air, enabling the engine to produce more power.

Selective Catalytic Reduction (SCR) technology - combined with a Diesel Oxidation Catalyst (DOC) - ensures compliance with Stage IV regulations. As there is no need for a particulate filter, there is no need for regeneration.



If the engine is the heart of the excavator, the e-EPOS is its brain - providing a perfectly synchronised communication link between the engine's ECU (Electronic Control Unit) and the hydraulic system. A CAN (Controller Area Network) system enables a constant flow of information between engine and hydraulic system, so that power is delivered exactly as needed.

EFFICIENT FUEL MANAGEMENT

- Choice between 4 power modes and 4 working modes guarantees optimum performance in all conditions
- SPC (Smart Power Control): reduces engine RPM during low load demand & ensures pump torque control, thus ensuring fuel efficiency and low emissions
- Engine auto-shut-off: shuts down the engine after the machine has been idling for a specified time
- Electronic control of fuel consumption optimises efficiency
- Auto-idle function saves fuel
- Eco guidance in real-time: eco gauge provides information about fuel consumption relative to machine performance in real-time. By trying to keep the right-hand LED bar from rising, the operator can teach himself how to save fuel and work efficiently
- For optimum cooling, fan speed is controlled by a electrical viscous fan clutch resulting in a lower fan noise & better fuel efficiency



Wastegate turbocharger: Diverts exhaust gases away from the turbine wheel to better regulate max boost pressure & protect engine. Also reduces lag time before turbo begins to spool/create boost maximising torque, plus reduces wear in high rpm & low load conditions. Turbocharger increases the density of the air, enabling the engine to produce more power with few effects from altitude.

Electrical viscous fan clutch: For optimum cooling, fan speed is controlled electronically by a fan clutch, resulting in lower fan noise and better fuel efficiency.

Operating in comfort

The ideal workspace – designed around you

The DX17oW-5 is designed to provide you with the best possible working conditions. The pressurised cab is ISO-certified for your safety. Its spacious interior offers a fully adjustable, heated air suspension seat. Comfortably seated, you have easy access to several storage compartments and a clear all-round view of the worksite. Noise and vibration levels have been reduced, while air conditioning and automatic climate control allow you to keep working for hours on end without feeling tired.



Best-in-class operator environment

Doosan Wheeled Excavators are powered by industry-leading engines that save on fuel and meet the latest Stage IV European regulations in addition to all noise regulations.

The low levels of cab vibration and noise provide exceptional operator comfort - and the cab air is filtered to ensure a healthy work environment.

Comfortable & safe workspace

Doosan offers one of the most spacious cabs in the market. The cab also features Roll Over Protective Structure (ROPS) - meeting the ISO 12117-2 standard - in the event the machine rolls over.

Fully adjustable steering column

The easily adjustable and narrow steering column ensures optimal visibility.

Heated air suspension seat (standard)

In addition to being adjustable and providing lumbar support, the seat has an air suspension system to reduce vibrations. It also features a seat heating system (activated at the touch of a button). A storage box has been placed under the seat for extra convenience.

Air conditioning with climate control

The operator can choose from 5 different modes to regulate the airflow, while the system adjusts the air temperature & fan speed to maintain the operator's selected temperature. A recirculated air function is also available.

MP₃/USB radio

MP3 player (MP3/USB radio with CD player optional).

Storage space

The new cab contains 7 storage compartments including one hot/cool box (linked to the HVAC system).

CabSus mount

The cab's new suspension system (CabSus mount) dampens high vibrations and provides outstanding protection against impact. The system absorbs shocks and vibrations much more effectively than a conventional viscous suspension system.



- Large sun roof Sun visor Storage compartment for sunglasses Window grip Hot/cool box

- 3. 4. 5. 6. Upper front window includes a sun shade and is strut-assisted for easy, reliable adjustment
- Photo sensor detects radiant energy from the sun and adjusts temperature automatically

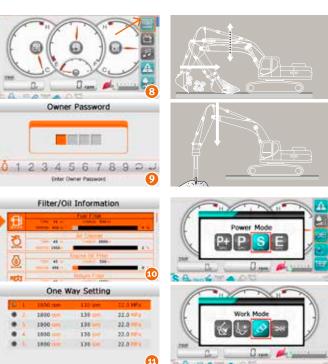
Total control in all simplicity

D The highest standards of efficiency at your fingertips

The advanced & user-friendly technologies are just some of the many advantages of this new generation. The ergonomic controls and the easy-to-view colour monitor place the machine firmly in your hands.

- The new multi-function 7" TFT LCD monitor displays a comprehensive range of useful technical information, allowing you to check the machine's status and settings at a glance
- Highly sensitive & low-effort joysticks and clear convenient controls enable you to work safely, smoothly & confidently with minimum effort for increased comfort, efficiency and production
- Doosan's unique jog shuttle switch gives you easy, precise control over all machine functions
- Proportional auxiliary flow means precision control, smoothness & efficiency when using attachments





TFT LCD colour monitor panel

The upgraded 7" Thin-Film-Transistor (TFT is a technology that improves image quality) LCD panel features a day and night display. The user-friendly monitor gives full access to machine settings and maintenance data. Any abnormality is clearly displayed on the screen, allowing you to work safely and confidently with an accurate overview of all conditions. All functions are totally controllable, directly via the screen or using the exclusive jog shuttle switch.

- 1. Fuel consumption level: current, total & daily average fuel consumption
- 2. Fuel level
- 3. AdBlue® level
- 4. Eco symbol: changes colour when operating conditions change (idle, normal or loading)
- 5. Eco gauge: shows the average fuel efficiency
- 6. Engine coolant and hydraulic oil temperatures
- 7. Warning symbols
- 8. New shortcut menu: displayed on the right for rapid access to main functions
- 9. Optional anti-theft password-controlled starting
- 10. Oil filter information
- 11. Attachment management: stores up to 10 different attachment presets, enabling the operator to set hydraulic flow & pressure according to his needs

Dynamic power management

- Automatic travel speed function
- \bullet Activating the power boost control system increases digging force by 10%
- A one-touch deceleration button immediately reduces engine speed to low or idle
- Auto-idling starts 4 seconds after all controls are returned to neutral decreasing fuel consumption and reducing noise levels in the cab

Intelligent floating boom mode (optional)

The "intelligent floating boom" function allows the boom to move up & down freely according to the application:

- Hydraulic breaker setting: during boom down operation, the boom moves down freely under its own weight, which reduces vibration and stress on the machine & increases breaker life
- Fully floating mode: during boom down selection, the boom is allowed to rise & fall as required while the bucket is drawn across the ground

4 Work modes & 4 Power modes

Deliver the needed power according to your specific application while minimising fuel consumption:

- 1-way mode, 2-way mode, Digging mode and Lifting mode
- Power-plus mode, Power mode, Standard mode, Economy mode

Simple control: Doosan's exclusive jog shuttle switch for easy and precise control over all machine functions.



- 1. Power Boost switch & One-touch deceleration switch
- 2. Thumb wheel switch allows proportional control of attachments
- FNR selector switch
 "Short stroke" joysticks enable easy, precise control of all operations

- 5. Axle RAM lock
 6. Exclusive jog shuttle switch

- 7. Working lights switch 8. Smart Power Control 9. Travel speed selector switch 10. Climate control
- 11.Remote control of radio
- 12. Parking brake
- 13. Floating boom switch
- 14. Power socket 12V

Your safety: Standard cab and boom lights, large side mirrors and rear view camera improve all-round visibility and thus safety. Other standard safety features: anti-slip plates, automatic overheating alarm warning, low oil pressure sensor, engine emergency cut-off switch, auxiliary mode switch (allows a safe level of hydraulics operation in case of EPOS failure), overload warning device. Optional travel/swing alarm and side view camera are also available.

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Rear and side view cameras



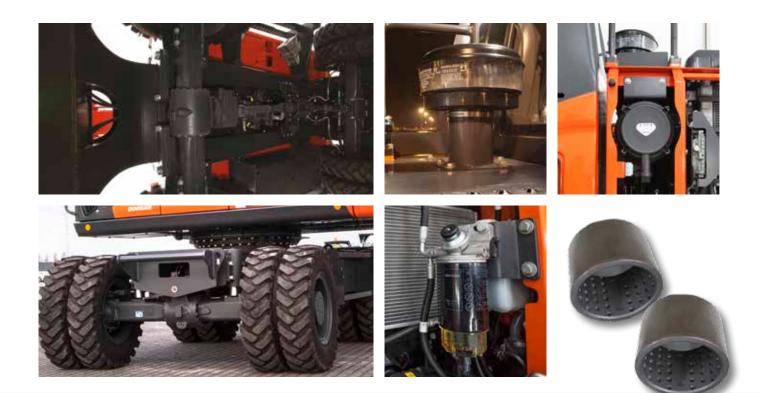
Work lights

Reliability, the habit of a lifetime

Designed for long-term all-round heavy-duty performance

In your profession, you need equipment you can depend on. At Doosan, we use highly specialised design and analysis tools to make sure our machines are as robust and durable as can be. Our materials and structures undergo stringent testing for strength and resilience under the most extreme conditions.

And we continually manufacture the most durable machines to ensure lower cost of ownership.



Undercarriage durability

A rigid, welded frame provides excellent durability. Efficient routing of hydraulic lines, transmission and rear differential protection and heavy-duty axles make the undercarriage perfect for wheeled excavator applications. An oscillating axle lock is available.

New drive line concept

The new travel motor and powershift transmission control in the drive line provide comfortable travel due to increased smoothness, improved hydraulic retarding and improved gear shifting.

Advanced disc brake system

The new improved system allows a more efficient braking of the machine. This eliminates the rocking effect associated with working on wheels. The ZF axles are designed for low maintenance, and the oil change intervals have been increased to 2000 hours, further reducing owning and operating costs.

Heavy-duty axles

The front axle offers wide oscillating and steering angles. The transmission is mounted directly on the rear axle for protection and optimum ground clearance.

Advanced filtration

- Fuel filters & water separator: a filter-type high-performance water separator effectively captures moisture in the fuel, reducing impurities and helping minimise any fuel-related issues. Pre-filters and dual main filters as standard minimise fuel system failures
- Air cleaner: The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and extending the cleaning and cartridge change intervals

Pin & bushing advanced technology

Highly lubricated metal is used for the boom pivot to increase the component's lifetime and lengthen greasing intervals. The bucket pivot features EM (Enhanced Macrosurface) bushings, which have a tailored surface pattern and self-lubricating coating to optimise greasing and make removal of debris more efficient. Ultra-hard wear-resistant discs & bucket pivot polymer shim increase durability even more.

Strengthened boom & arm

Finite Element Analysis has been used to calculate the best load distribution throughout the boom structure. Combined with thicker material, this means that element fatigue is limited and both reliability and component life are increased.

To better protect the base of the arm, reinforced bars have been added and the arm centre and end boss have been strengthened.



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DOOSAN

Exclusive parallel dozer and independent stabiliser design:

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- Large reinforced covers protect the dozer and stabiliser cylinders
 Large reinforced covers protect the dozer and stabiliser cylinders
 The dozer blade design facilitates pulling and mixing of materials
 The Stabilisers are kept well within the machine envelope and the position of the pins is kept high to avoid bumping while moving over the ground
 Parts in contact with the ground have been carefully designed to prevent damage to the surface
 Wide pads to reduce ground pressure
 Lifting eyes on dozer for secure transport, additional 4 eyes are on the undercarriage

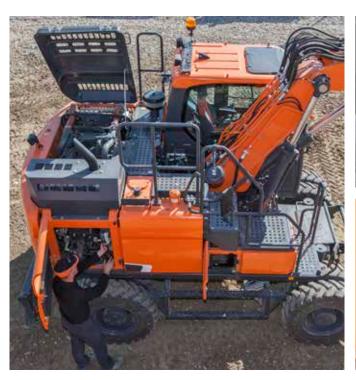
Simple maintenance with maximum uptime

Excellent service accessibility

Short maintenance operations at long intervals mean you can depend on your equipment being available on site when it's needed. Our machines are designed for simple routine maintenance, while skilled Doosan technicians are available to provide extra support, should you need it. Choose the package you need from a broad range of service agreements to get the most out of your machine. Uptime, productivity and residual value are all maximised, making these excavators an economical and rewarding choice.

Building further on the success of the Stage IIIB engines, the new Stage IV Doosan DLo6P engine has no need for a DPF filter to meet the Stage IV emissions requirements - which means no maintenance required, so more uptime!











Maintenance access made simple

- Large guard rails are installed along with anti-slip steps and plates, for safer, easier access to the whole upper structure
- The cab's air-conditioning filter is lockable and placed on the side of the cab for easy access
- A battery cut-off switch makes it easy to disconnect the battery during long-term storage
- The hour meter display can be easily checked from ground level
- Shut-off valves have been fitted on the pre-filter piping line and fuel tank drain piping to make servicing easier and prevent pollution from leakage
- Engine parts can be easily reached via the top and side panels
 For extra accessibility and servicing convenience, all filters (engine oil
- filter, fuel pre-filter, fuel filter and pilot filter) are located in the pump compartment

Longer service intervals

More than 99.5% of foreign particles are filtered out in oil return filters and engine oil filters - so the oil & filter change interval is longer.

Global Doosan network

With a worldwide network of Doosan dealers & Parts Distribution centres, your Doosan excavator can be serviced & maintained wherever you are.

Full solution provider

- The Doosan Telematic system is available as standard offering you all of the features for reading out vehicle operating & production parameters remotely, and providing you with complete peace of mind
- Protection+ : extended warranty covering parts, travel and service (check with your local dealer)
- Maintenance contract: your dealer will support you with routine service at regular intervals
- Genuine parts: manufactured and tested to ensure they always meet the same high quality standards as the original components

SCR Tank

Connected to the ECU, sensors in tank detect low level of $\mathsf{AdBlue} \circledast \& \mathsf{any} \mathsf{system} \mathsf{ malfunction}$

Centralised greasing points

To make maintenance easier, the greasing points have been centralised.



Technical specifications

C Engine

Designed to deliver superior performance and fuel efficiency, the Doosan Stage IV diesel engine fully meets the latest emissions regulations. To optimise machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, Wastegate Turbocharger, Exhaust Gas Recirculation (EGR) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

	DV
	DX170W-5
Model	Doosan DLo6P
No. of cylinders	6
Rated power at 2000 rpm	
(SAE J1995)	113.3 kW (151.9 hp)
(SAE J1349)	110.3 kW (147.9 hp)
(ISO 9249)	110.3 kW (147.9 hp)
Max. torque at 1400 rpm	66 kgf∙m (647 Nm)
Idle (low - high)	800 [±10] - 2100 [±25] rpm
Piston displacement	5890 cm³
Bore × stroke	100 mm × 125 mm
Starter	24 V × 6 kW
Batteries - Alternator	2 × 12 V, 150 Ah - 24 V, 80 A
Air filter	Double element air cleaner and pre-filtered Turbo dust separator

Undercarriage

Extremely robust construction throughout - made of high-quality, durable materials, with all welded structures designed to limit stresses. Lateral chassis welded and rigidly attached to undercarriage. Heat-treated connecting pins. 10.00-20-14PR (OTR) double tyres with tyre spacer. Heavy-duty front axle with automatic or operator-controlled (on/off/auto) front axle oscillation lock.

Front axle oscillation

DX170W-5 +/- 8° with automatic ram lock

Brakes

Dual multi-disc circuit with sintered metal discs for extended service life. Braking system activated by a pump and accumulator circuits. Spring-applied, hydraulically released parking brake mounted on the transmission shaft.

Hydraulic system

The e-EPOS (Electronic Power Optimising System) is the brain of the excavator minimising fuel consumption and optimising the efficiency of the hydraulic system for all working conditions.

To harmonise the operation of the engine and the hydraulics, the e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link.

- The hydraulic system enables independent or combined operations
- 2 travel speeds offer either increased torque or high speed Cross-sensing pump system for fuel savings
- Auto-deceleration system
- 4 operating modes, 4 power modes
- Flow and pressure control of auxiliary hydraulic circuits from control panel
- Computer-aided pump flow control

Maximum system pressure

	DX170W-5
Implement	37.3 MPa
Travel/Work	34.3 MPa
Boost	36.3 MPa

Pumps

Pump	Туре	Max. flow @ 2000 rpm	Relief valve pressure
Main (2)	Parallel, Bent-Axis, Axial piston	2 × 170 l/min	-
Pilot	Gear	24.1 l/min	4 MPa
Steering	Gear	35.5 l/min	17.5 ~ 18.5 MPa
Brake	Gear	13.6 l/min	15.7 MPa

Hydraulic cylinders

High-strength steel piston rods and cylinder bodies. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore × rod diameter × stroke (mm)
One-piece boom	2	115 × 80 × 1010
Arm, one-piece boom	1	125 × 90 × 1206
Two-piece boom, lower	2	115 × 80 × 955
Two-piece boom, upper	1	160 × 95 × 680
Arm, two-piece boom	1	125 × 90 × 1248
Bucket	1	105 × 70 × 995
Blade	2	110 × 70 × 190
Stabilisers	2	120 × 70 × 416

Component weights

Item	Unit	Weight	Remarks	
Upper structure without front	kg	8249	With counterweight	
Undercarriage	kg	6363	Including Stabilisers and dozer blade	
Front assembly	kg	2803		
Counterweight	kg	3220		
Boom 5.1 m	kg	919	Including bushing	
Arm 2.5 m	kg	461	Including bushing	
Two-piece boom, lower	kg	433	Including bushing	
Two-piece boom, upper	kg	751	Including bushing	
Arm 2.1 m / 3.0 m	kg	428 / 524		
Dozer	kg	710		
Dozer cylinder (each)	kg	61		
Stabiliser	kg	1056	Including cylinders	
Stabiliser cylinder (each)	kg	103		

Swing mechanism

The swing mechanism uses an axial piston motor, driving a 2-stage planetary reduction gear bathed in oil for maximum torque.

- Swing bearing: single-row, shear type ball bearing with induction hardened internal gear
- Internal gear and pinion immersed in lubricant
- Increased swing torque reduces swing time
- The swing brake for parking is activated by spring and released hydraulically

Swing speed & torque

	DX170W-5
Maximum swing speed	10.8 rpm
Maximum swing torque	4544 kgF∙m

Drive

The wheels are driven by an axial piston engine via a two-speed powershift transmission. In addition to the two-speed powershift transmission, there is also an economy mode and a switch for the creep speed. A button makes it possible to pass from high to low in work mode.

Two travel speed ranges offer a choice between increased torque or high speed.

Speed & traction

	DX170W-5	
Travel speed (creep - low - high)	3 - 10 - 37 km/h	
Maximum traction	10 t	
Minimum turning radius	7.7 m	
Gradeability	64% (33°)	

Fluid capacities

	DX170W-5
Fuel tank	280 l
Cooling system (radiator)	25.6 l
Hydraulic oil tank	96 l
Engine oil	22
Swing drive	31
Front axle hub	2 × 2.5 l
Rear axle hub	2 × 2.4 l
Front Axle Case	10.5 l
Rear Axle Case	14 l
Transmission	2.5 l
Urea tank	31.5 l

Cab

ROPS cab, large and roomy interior. One-way travel pedal with FNR switch on the right joystick. Audio system with remote control, independently adjustable joystick consoles. Excellent all-round visibility, transparent roof hatch, 2-piece sliding door window, narrow and easily adjustable steering column. The removable lower front glass can be stored behind the seat. Interior lighting. The pressurised and filtered cab air is supplied by numerous vents. Climate-control provides fast defrosting and high cooling and heating performance. Viscous/spring mounted suspension cushions reduce vibrations. Heated air suspension seat with adjustable seat suspension, height, tilt, recline and forward-backward settings. Adjustable, easy to read 7 LCD colour monitor provides real-time information on machine functions and diagnostic information and is switchable to rear view camera (std) or side view camera (optional).

Noise emission

	DX170W-5
A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)	Declared : 70 dB(A)
A-weighted sound power level, LwAd (2000/14/EC)	Declared : 102 dB(A) Measured : 100.2 dB(A)

Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

Buckets

Duslast	Width (mm)	Width (mm)		Width (mm)		On	One-piece boom 5.1 m			Two-piece boom 5.2 m	
Bucket Type	Capacity (m³) SAE	With side cutters	W/O side cutters	Weight (kg)	Arm 2.1 m	Arm 2.5 m	Arm 3.0 m	Arm 2.1 m	Arm 2.5 m		
	0.32	553	589	362	A	A	A	А	A		
	0.48	795	844	433	A	Α	А	Α	A		
GP	0.66	1008	1058	496	A	В	С	В	В		
	0.76	1135	1184	539	В	C	D	C	С		
	0.90	1302	1351	597	С	D	-	D	D		

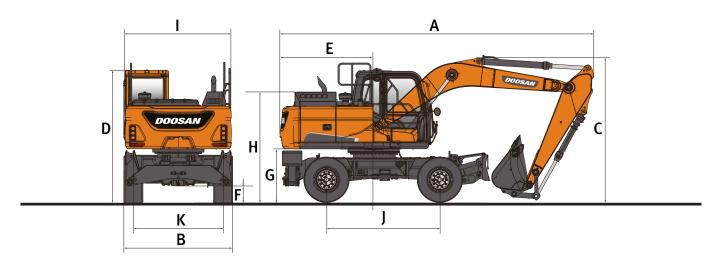
A: Suitable for materials with a density less than or equal to 2100 kg/m³ B: Suitable for materials with a density less than or equal to 1800 kg/m³

> Weight

C: Suitable for materials with a density less than or equal to 1500 kg/m³ D: Suitable for materials with a density less than or equal to 1200 kg/m³ Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

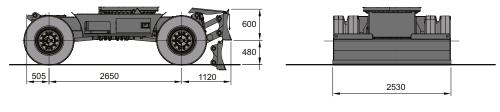
Boom (mm)	Arm (mm)	Bucket (m³)	C/W (tonne)	Chassis - Front	Chassis - Rear	Total weight
		0.90 3.2		Cradle	Dozer	16.632
		0.90	3.2	Dozer	Stab	17.868
	2100	0.90	3.2	Stab	Dozer	17.868
		0.90	3.2	Stab	Stab	18.264
		0.66	3.2	Cradle	Dozer	16.564
1-piece boom		0.66	3.2	Dozer	Stab	17.800
(5100)	2500	0.66	3.2	Stab	Dozer	17.800
		0.66	3.2	Stab	Stab	18.196
	3000	0.66	3.2	Cradle	Dozer	16.564
		0.66	3.2	Dozer	Stab	17.800
		0.66	3.2	Stab	Dozer	17.800
		0.66	3.2	Stab	Stab	18.196
		0.76	3.2	Cradle	Dozer	16.800
	2100	0.76	3.2	Dozer	Stab	18.036
	2100	0.76	3.2	Stab	Dozer	18.036
2-piece boom		0.76	3.2	Stab	Stab	18.432
(5200: 1900 + 3650)		0.66	3.2	Cradle	Dozer	17.460
1900 + 3050)	2500	0.66	3.2	Dozer	Stab	18.696
	2500	0.66	3.2	Stab	Dozer	18.696
		0.66	3.2	Stab	Stab	18.300

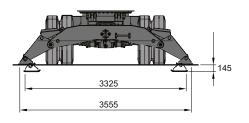
Dimensions

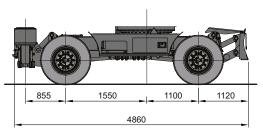


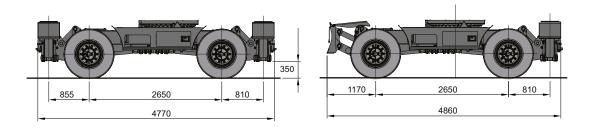
Dimensions

		Two-piece boom 5200 (1900LB + 3650 UB)			
Boom length - mm	5100				
Arm length - mm	2100	2500	3000	2100	2500
A Shipping length - mm	8253	8219	8190	8352	8320
B Shipping width - mm	2530	2530	2530	2530	2530
C Shipping height (boom) - mm	3162	3098	3433	3165	3136
D Height over cab - mm	3075	3075	3075	3075	3075
E Counterweight swing clearance - mm	2230	2230	2230	2230	2230
F Ground clearance - mm	350	350	350	350	350
G Counterweight clearance - mm	1237	1237	1237	1237	1237
H Engine cover height - mm	2234	2234	2234	2234	2234
I Upper housing width - mm	2530	2530	2530	2530	2530
J Wheel base - mm	2650	2650	2650	2650	2650
K Tread width - mm	1944	1944	1944	1944	1944

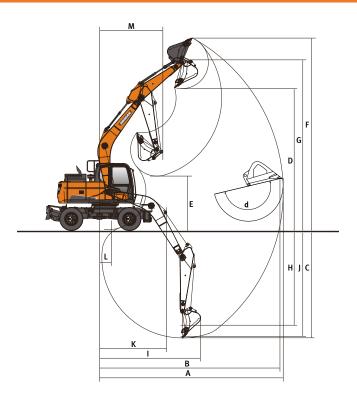








Working range



> Working range

		One-piece boom	Two-piece boom 5200 (1900 LB + 3650 UB)		
Boom length - mm		5100			
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m ³	0.76	0.66	0.48	0.76	0.66
A Max. digging reach - mm	8525	8875	9285	8715	9090
B Max. digging reach (ground) - mm	8340	8695	9115	8530	8915
C Max. digging depth - mm	4920	5315	5815	5350	5745
D Max. loading height - mm	6410	6585	6725	7090	7380
E Min. loading height - mm	3025	2565	2095	3440	2935
F Max. digging height - mm	8980	9140	9250	9760	10045
G Max. bucket pin height - mm	7750	7925	8065	8435	8720
H Max. vertical wall depth - mm	4325	4710	5150	4470	4835
I Max. radius vertical - mm	5835	5945	6110	5220	5370
J Max. digging depth (8 ⁻ level) - mm	4685	5110	5635	5240	5640
K Min. radius 8´line - mm	2810	2810	2810	770	770
L Min. digging reach - mm	1760	820	495	2035	1195
M Min. swing radius - mm	3185	2990	3125	3035	2795
d Bucket angle - °	178	178	177	178	178

Digging forces (ISO)

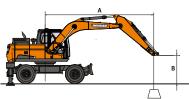
		One-piece boom	Two-piece boom		
Boom length - mm		5100		5200 (1900 L	B + 3650 UB)
Arm length - mm	2100	2500	3000	2100	2500
Bucket capacity - m ³	0.76	0.66	0.48	0.76	0.66
BUCKET (Normal/Press. Up) - ton	11.6 / 12.3	11.6 / 12.3	11.6 / 12.3	11.6 / 12.3	11.6 / 12.3
ARM (Normal/Press. Up) - ton	9.5 / 10.1	8.2 / 8.6	7.5 / 7.9	9.5 / 10.1	8.2 / 8.6

Lifting capacities

DX170W-5

⊃ W/O Bucket

Unit: 1000 kg	A	Chassis Frame	1.5			om		5 m		om		m		ax. reach	
5 mil 2000 kg	В	Attachment	ů	GP	ů	(P	ŀ	GP	Ь	G.	ď	(Fr	ď	(3-9	4
		R-Dozer Up											2.84 *	2.84 *	_
	7.5 m	R-Dozer Down											2.84 *	2.84 *	4.8
	1.2	F-Dozer + R-Stabiliser Up											2.84 *	2.84 *	- '
		F-Dozer + R-Stabiliser Down											2.84 *	2.84 *	-
		R-Dozer Up							3.37 *	2.75			2.46 *	2.46 *	-
	6.0 m	R-Dozer Down							3.37 *	3.05			2.46 *	2.46 *	6.:
		F-Dozer + R-Stabiliser Up							3.37 *	2.91			2.46 *	2.46 *	_
		F-Dozer + R-Stabiliser Down							3.37 *	3.37 *			2.46 *	2.46 *	-
		R-Dozer Up					5.97 *	4.24	5.07	2.71			2.34 *	2.08	-
	4.5 m	R-Dozer Down					5.97 *	4.7	5.19 *	3			2.34 *	2.31	7.
	, ,	F-Dozer + R-Stabiliser Up					5.97 *	4.46	5.06	2.87			2.34 *	2.21	- `
		F-Dozer + R-Stabiliser Down					5.97 *	5.97 *	5.19 *	4.51			2.34 *	2.34 *	-
		R-Dozer Up					7.09 *	3.94	4.94	2.59			2.36 *	1.85	-
	3.0 m	R-Dozer Down					7.09 *	4.39	5.61 *	2.88			2.36 *	2.06	7.
One-piece boom	-	F-Dozer + R-Stabiliser Up					7.09 *	4.15	4.92	2.74			2.36 *	1.97	- 1
5.1 m		F-Dozer + R-Stabiliser Down					7.09 *	6.81	5.61 *	4.37			2.36 *	2.36 *	-
Arm 2.5 m		R-Dozer Up					7.39	3.64	4.79	2.46	2.74 *	1.78	2.50 *	1.77	
ounterweight 3.2 t	1.5 m	R-Dozer Down					8.07 *	4.09	6.02 *	2.74	2.74 *	1.99	2.50 *	1.98	7
	.,	F-Dozer + R-Stabiliser Up					7.36	3.86	4.77	2.61	2.74 *	1.9	2.50 *	1.89	- 1
		F-Dozer + R-Stabiliser Down					8.07 *	6.47	6.02 *	4.23	2.74 *	2.74 *	2.50 *	2.50 *	-
		R-Dozer Up			6.94 *	6.19	7.19	3.48	4.68	2.37			2.79 *	1.81	
	o.o m	R-Dozer Down			6.94 *	6.94 *	8.33 *	3.92	5.92	2.65			2.79 *	2.03	7
	010	F-Dozer + R-Stabiliser Up			6.94 *	6.57	7.17	3.7	4.67	2.52			2.79 *	1.93	_ ′
		F-Dozer + R-Stabiliser Down			6.94 *	6.94 *	8.33 *	6.28	6.13 *	4.12			2.79 *	2.79 *	
		R-Dozer Up			10.84 *	6.23	7.14	3.44	4.65	2.34			3.37 *	2.01	
	-1.5 m	R-Dozer Down			10.84 *	7.15	7.77 *	3.88	5.68 *	2.62			3.37 *	2.25	e
	-1.5 111	F-Dozer + R-Stabiliser Up			10.84 *	6.61	7.12	3.66	4.64	2.49			3.37 *	2.15	
		F-Dozer + R-Stabiliser Down			10.84 *	10.84 *	7.77 *	6.23	5.68 *	4.1			3.37 *	3.37 *	
		R-Dozer Up			8.45 *	6.38	6.22 *	3.51					4.27 *	2.53	
	2 0 m	R-Dozer Down			8.45 *	7.31	6.22 *	3.95					4.27 *	2.83	Ι.
	-3.0 m	F-Dozer + R-Stabiliser Up			8.45 *	6.76	6.22 *	3.73					4.27 *	2.69	5
		F-Dozer + R-Stabiliser Down			8.45 *	8.45 *	6.22 *	6.22 *					4.27 *	4.27 *	
													< ±	2 4	_
		R-Dozer Up											2.64*	2.64*	-
	7.5 m	R-Dozer Down											2.64*	2.64*	- 5
		F-Dozer + R-Stabiliser Up												2.64 * 2.64 *	- 1
		F-Dozer + R-Stabiliser Down											2.64*	2.64*	-
		R-Dozer Up							3.77*	2.82			2.36*	2.3	-
	6.0 m	R-Dozer Down							3.77*	3.11			2.36*	2.36*	
		F-Dozer + R-Stabiliser Up							3.77 *	2.97			2.36 *	2.36 *	-
		F-Dozer + R-Stabiliser Down							3.77*	3.77*			2.36*	2.36*	-
		R-Dozer Up							4.67*	2.75			2.29*	1.9	
	4.5 m	R-Dozer Down							4.67*	3.04			2.29*	2.11	
	4.5	F-Dozer + R-Stabiliser Up							4.67 *	2.9			2.29 *	2.01	1
		F-Dozer + R-Stabiliser Down							4.67*	4.55			2.29*	2.29*	
		R-Dozer Up					6.60*	4.01	4.97	2.61	3.52	1.83	2.33*	1.69	
	3.0 m	R-Dozer Down					6.60*	4.47	5.32*	2.9	3.61*	2.04	2.33*	1.89	
One-piece boom	5.0 111	F-Dozer + R-Stabiliser Up					6.60 *	4.23	4.95	2.77	3.51	1.95	2.33 *	1.81	_ '
5.1 m		F-Dozer + R-Stabiliser Down					6.60*	6.60*	5.32*	4.4	3.61*	3.12	2.33*	2.33*	
Arm 3.0 m		R-Dozer Up					7.44	3.68	4.8	2.46	3.45	1.77	2.48*	1.62	
ounterweight 3.2 t	4 F M	R-Dozer Down					7.74*	4.13	5.83*	2.75	4.23	1.98	2.48*	1.81	
	1.5 M	F-Dozer + R-Stabiliser Up					7.42	3.9	4.78	2.61	3.43	1.89	2.48 *	1.73	7
		F-Dozer + R-Stabiliser Down					7.74*	6.52	5.83*	4.23	4.36*	3.05	2.48*	2.48*	
		R-Dozer Up			7.80*	6.14	7.18	3.46	4.66	2.34	3.39	1.72	2.77*	1.64	
		R-Dozer Down			7.80*	7.06	8.27*	3.91	5.91	2.63	4.17	1.93	2.77*	1.84	
	0.0 m	F-Dozer + R-Stabiliser Up			7.80 *	6.52	7.16	3.68	4.65	2.5	3.38	1.84	2.77 *	1.76	774
		F-Dozer + R-Stabiliser Down			7.80*	7.80*	8.27*	6.27	6.08*	4.11	4.18*	2.99	2.77*	2.77*	1
		R-Dozer Up	6.32*	6.32*	10.88*	6.12	7.09	3.38	4.61	2.29			3.31*	1.8	T
		R-Dozer Down	6.32*	6.32*	10.88*	7.03	7.99*	3.82	5.84	2.58			3.31*	2.02	
	-1.5 M	F-Dozer + R-Stabiliser Up	6.32 *	6.32 *	10.88 *	6.5	7.06	3.6	4.59	2.30			3.31*	1.92	
		F-Dozer + R-Stabiliser Down	6.32*	6.32*	10.88*	10.88*	7.99*	6.18	4.59 5.87*	4.05			3.31*	3.14	
		R-Dozer Up	10.01*	10.01*	9.53*	6.23	6.83*		4.65				4.30*	2.19	+
		R-Dozer Down						3.42		2.33					-
		K-DUZEI DUWII	10.01*	10.01*	9.53*	7.15	6.83*	3.86	4.79*	2.61			4.30*	2.45	e
	-3.0 m		40	40.0.4	0.5- *	11.	(0-+	a / .	. / -				1 +		
	-3.0 m	F-Dozer + R-Stabiliser Up F-Dozer + R-Stabiliser Down	10.01 * 10.01*	10.01 * 10.01*	9.53 * 9.53*	6.61 9.53*	6.83 * 6.83*	3.64 6.21	4.63 4.79*	2.48 4.09			4.30 * 4.30*	2.33 3.82	-



: Rating over front.
 : Rating over side or 360°.

1. Lifting capacities are in compliance with ISO 10567:2007(E).

2. The load point is at the end of the arm.

3. * = The nominal loads are based on hydraulic capacity.

4. The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.

5. For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.

6. The configurations indicated do not necessarily reflect the standard equipment of the machine.

Lifting capacities

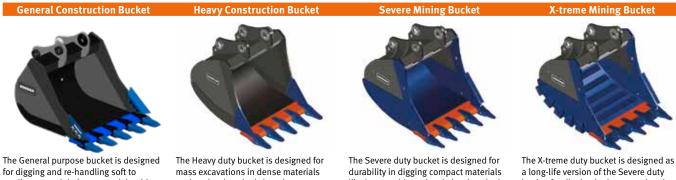
DX170W-5

W/O Bucket

that we have	А	Chassis Frame	3.0 m 4.5 m 6.0 m 7.5 m			Max. reach	6						
Unit: 1000 kg	В	Attachment	ф	(] =	ň	(] #	ф	(] #	ф	(] *	ф	(†	A
		R-Dozer Up			4.57*	4.46					2.51*	2.51*	
		R-Dozer Down			4.57*	4.57*					2.51*	2.51*	
	7.5 m	F-Dozer + R-Stabiliser Up			4.57 *	4.57 *					2.51 *	2.51 *	5.16
		F-Dozer + R-Stabiliser Down			4.57*	4.57*					2.51*	2.51*	
		R-Dozer Up			4.57*	4.57*					2.51*	2.51*	
	<i>(</i>	R-Dozer Down			4.57*	4.57*					2.51*	2.51*	· · · -
	6.0 m	F-Dozer + R-Stabiliser Up			4.46 *	4.46 *	4.13 *	2.93			2.11 *	2.11 *	6.47
		F-Dozer + R-Stabiliser Down			4.57*	4.57*					2.51*	2.51*	
		R-Dozer Up			5.16*	4.26	4.59*	2.72			1.95*	1.95	
		R-Dozer Down			5.16*	4.74	4.59*	3.02			1.95*	1.95*	
	4.5 m	F-Dozer + R-Stabiliser Up			5.16 *	4.48	4.59 *	2.87			1.95 *	1.95 *	7.25
		F-Dozer + R-Stabiliser Down			5.16*	5.16*	4.59*	4.55			1.95*	1.95*	
		R-Dozer Up			6.37*	3.92	4.97	2.58	3.19*	1.81	1.92*	1.74	
		R-Dozer Down			6.37*	4.39	5.08*	2.87	3.19*	2.02	1.92*	1.92*	
	3.0 m	F-Dozer + R-Stabiliser Up			6.37 *	4.14	4.96	2.73	3.19 *	1.93	1.92 *	1.86	7.65
Two-piece boom 5.2 m		F-Dozer + R-Stabiliser Down			6.37*	6.37*	5.08*	4.4	3.19*	3.11	1.92*	1.92*	
Arm 2.5 m Counterweight 3.2 t		R-Dozer Up			7.41	3.6	4.8	2.43	3.46	1.75	1.97*	1.67	
Counterweight 3.2 t		R-Dozer Down			7.53*	4.05	5.63*	2.72	4.04*	1.97	1.97*	1.87	
	1.5 M	F-Dozer + R-Stabiliser Up			7.38	3.82	4.79	2.58	3.45	1.87	1.97 *	1.78	7.74
		F-Dozer + R-Stabiliser Down			7.53*	6.48	5.63*	4.24	4.04*	3.06	1.97*	1.97*	
		R-Dozer Up			7.19	3.42	4.69	2.33	2.68*	1.72	2.13*	1.71	
		R-Dozer Down			8.12*	3.87	5.97*	2.62	2.68*	1.94	2.13*	1.92	
	0.0 M	F-Dozer + R-Stabiliser Up			7.17	3.64	4.67	2.48	2.68 *	1.84	2.13 *	1.83	7.54
		F-Dozer + R-Stabiliser Down			8.12*	6.27	5.97*	4.12	2.68*	2.68*	2.13*	2.13*	
		R-Dozer Up	9.83*	6.14	7.14	3.38	4.65	2.3			2.45*	1.9	
		R-Dozer Down	9.83*	7.08	8.00*	3.83	5.89*	2.59			2.45*	2.13	
	-1.5 m	F-Dozer + R-Stabiliser Up	9.83*	6.52	7.12	3.6	4.64	2.45			2.45 *	2.03	7.01
		F-Dozer + R-Stabiliser Down	9.83*	9.83*	8.00*	6.22	5.89*	4.09			2.45*	2.45*	
		R-Dozer Up			7.04*	3.45					4.96	2.48	
		R-Dozer Down			7.04*	3.9					5.11*	2.78	- 0.
	-3.0 m	F-Dozer + R-Stabiliser Up			7.04 *	3.67					4.94	2.64	5.81
		F-Dozer + R-Stabiliser Down			7.04*	6.31					5.11*	4.36	1

Doosan Buckets

4 More. More choice - More durable - More strength - More performance!



for digging and re-handling soft to medium materials (e.g. materials with low wear characteristics such as top-soil, loam, coal).

such as hard packed clay, shot limestone, limited rock content and gravel.

like loose or blasted rock, hard packed clay and stone.

bucket for digging in the most abrasive materials.

Standard and optional equipment

Engine

Doosan DLo6P, Stage IV compliant, SCR, EGR, DOC, water-cooled diesel engine with Wastegate Turbocharger and air-to-air intercooler Auto-idle function Auto shut-off	•
Auto-idle function	-
Auto shut-off	
No DPF	
NO DPF	
Hydraulic system	
Boom and arm flow regeneration	•
Swing anti-rebound valves	•
Spare ports (valve)	
One-touch power boost function	•
Smart Power Control (SPC)	•
Breaker piping	•
Cylinder cushioning & contamination seals	•
Control of auxiliary hydraulic flow and pressure from the display panel	•
Cab & Interior	
Pressurised, sound-insulated and CabSus mounted cab	•
Heated, adjustable air suspension seat with adjustable headrest and armrest	
Air conditioning with climate control	
Pull-up type front window with sun roller blind and removable lower front window	
Sliding left window	
Intermittent upper and lower windshield wiper	
Rain visor	•
Rear window defroster switch	•
Adjustable PPC wrist control levers for arm, boom, bucket and swing	•
Joysticks and pedals provide proportional control of auxiliary lines for attachments	•
Adjustable tiltable steering column	٠
Pedal for auxiliary control 1 & 2 ways	
Jog shuttle switch	
7" (18 cm) TFT LCD colour monitor panel	
Attachment management system	•
Engine speed (RPM) control dial	
Automatic travel speed	•
4 operating modes & 4 working modes	•
Electric horn	•
Cigarette lighter Ceiling light	•
Cup holder	
Multiple storage compartments (e.g. document holder under seat)	•
Storage area (tools, etc.)	
Hot and cool box	•
Flat, spacious, easy-to-clean floor	•
Master key	•
Anti-theft protection	
12 V spare power socket	•
Serial communication port for laptop PC interface	•
Remote radio ON/OFF switch	•
Loudspeakers and connections for radio	
MP3/USB radio or MP3/USB radio with CD player	0
• Cofety	

Safety

Roll Over Protective Structure (ROPS)	
Boom and arm cylinder safety valves	
Overload warning device	
Large guard rails on upper structure and steps	•
Rotating beacon	•
Rear-view camera	
Punched metal anti-slip plates	
Hydraulic safety lock lever	
Safety glass	
Hammer for emergency escape	
Right and left rear-view mirrors	•
Lockable fuel cap and covers	
Battery cut-off switch	
Engine restart prevention system	•
Parking brake	
Work lights (2 front frame, 4 front cab-mounted, 2 rear cab-mounted, 2 boom- mounted and 1 rear side)	•
Emergency engine stop switch and hydraulic pump control switch	•
FOGS cab - top and front cab guards (ISO 10262)	0
Front window upper and lower guards	
Side-view camera	0

Other

Deem steep mm even asee mm equintering which even list	
Boom: 5100 mm – arm: 2500 mm – counterweight: 3220 kg	
"Doosan Connect" Telematic system	•
Auto shut-off fuel filler pump	•
Double element air cleaner and pre-filtered Cyclone Turbo dust separator	٠
Fuel pre-filter with water separator sensor	•
Dust screen for radiator/oil cooler	•
Self-diagnostic function	•
Alternator (24 V, 80 A) - Battery (2 × 12 V, 150 Ah)	•
Powershift 2-speed travel system	•
Remote greasing for swing circle and work group pivot points	•

Guards for work lights	
Arms: 2100 mm or 3000 mm	0
Booms: two-piece boom 5200 mm	0
Doosan buckets: full range of GP, HD & Rock buckets	0
Doosan breakers and Doosan quick-couplers	0
Hydraulic piping for crusher, quick-coupler, clamshell, tilting and rotating buckets	0
Additional filter for breaker piping	0
Floating boom	0
Double pump flow	0
Engine coolant heater	0
Bio oil	0
Automatic lubrication system	0
Road homologation (depending on countries)	0
Alarm for travel & swing	0

Oundercarriage

Front parallel dozer blade and rear independent Stabilisers	•
Double tyres 10-20 14 PR	•
Front axle oscillation lock modes (On/Off/Auto)	•
Piston rod protection of Stabiliser cylinders	•
Lockable tool box (left side)	•
Rear & front chain tightening eyes	•
Lockable tool box (right side)	0
Front cradle	0
2 or 4 independent Stabilisers with cylinder protection	0
Rear parallel dozer blade	0

Standard: Optional:



Engine coolant heater

attachments requiring high hydraulic capacity)

Doosan buckets



Tool box



Two-piece boom



Doosan breakers and quick-couplers

Some of these options may be standard in some markets. Some of these options may not be available for certain markets. Please check with your local DOOSAN dealer for more information about availability or to adapt your machine to your application needs.

1

DOOSAN CONNECT

WORK EFFICIENCY MANAGEMENT

JOB SITE MANAGEMENT

DOSAN



PREVENTIVE MAINTENANCE

PROACTIVE SERVICE

OPERATION TREND Total operation hours and operation hours by mode

FUEL EFFICIENCY* Fuel level and fuel consumption

LOCATION GPS and geo-fence

REPORTS Operation report & utilization

WARNING & ALERT Detect machine warnings, antenna disconnection, and geo/time fence

FILTER & OIL MANAGEMENT Preventive maintenance by item replacement cycle

TELEMATICS TERMINAL

Terminal device is installed and connected to a machine to get machine data.

TELECOMMUNICATION

Doosan provides Dual mode (Mobile, Satellite) communication to maximize communication coverage.

DOOSANCONNECT WEB

Users can monitor machine status from DoosanCONNECT Web.

*Functions may not be applied to all models. Please contact your sales representative for more information on this feature.







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