DOOSAN

Wheeled Excavators

DX190W-7

Maximum power	174 hp
Operating weight	18.32 t
Bucket capacity	0.8 m^3
Emission standard	Stage V







DOOSAN DX190W-7 WHEELED EXCAVATOR:

AN ALL-ROUND IMPRESSIVE PACKAGE

Doosan's new DX190W-7 Wheeled Excavator offers a host of redesigned features and new technologies to ensure smooth operation, superior productivity and stability, top-class operator comfort and improved fuel efficiency.

This powerful machine will give your job site a huge boost.

RAISE PROFITS, PRODUCTIVITY & FUEL EFFICIENCY

SUPERIOR STABILITY

Rock-solid in every moment. Thanks to optimized weight distribution, longer wheelbase cast counterweight and optional heavier counterweights for the biggest attachments, the DX-7 Series offers excellent stability for confidence and peace of mind in all situations.

RELIABILITY

Reinforced castings and forged steel pivot points and reinforced heavy-duty arm and boom to withstand high-impact materials. Monoboom or articulated boom for added versatility. Improved hydraulic line routing to protect your investment.

YOUR SAFETY IS OUR PRIORITY

Rear and right side cameras as standard, anti-slip steps and platforms, as well as guard rails on upper structure.
Optional: a 360° all-around view camera (AVM) can be linked with unique ultrasonic detection for maximum safety while working with people around.
Large side mirrors, 7 powerful LED work lights (4 additional lights possible as an option), travel alarm.

PRODUCTIVITY

The highest hydraulic capacity in its class in the market – with 2 × 200 l/min for various applications. This extra power is available for any attachments you use and work you need to do.
Automatic digging brake, electric joystick steering, and Load Isolation System (LIS) for better ride control.



TOTAL CONTROL

Enjoy significantly reduced shock and better productivity when handling loads. Thanks to our switchable Fine Swing feature, you avoid bumps at the start and end of any boom movement (only recommended on flat surfaces).
To increase accuracy, engage the Tilt Rotator mode, which enables smart distribution of hydraulic flow to eliminate back pressure.

COMFORTABLE RIDE

Bumpy terrain ahead? We have you covered. Our switchable Load Isolation System largely mitigates the impact of bumps on the cab. You enjoy a smooth ride, increased productivity and improved safety even on bumpy ground.

EFFORTLESS OPERATION

Make work a breeze with switchable electric steering. With this option, you use a thumbwheel to steer the machine without taking your hand off the joystick.



UNRIVALLED COMFORT

One of the most spacious cabs in the market, with low noise & vibration levels and excellent all-round visibility. Thanks to the premium seat's heating, and even an optional cooling functionality, and improved air ventilation in the DX190W-7, you can focus on the job at hand under all conditions.

OPERATE AT EASE

New Doosan Smart Touch screen – an easy to read and use 8" touch screen – integrates all functions and settings of your machine in one place. Don't miss any important call thanks to the hands-free phone system. And forget fumbling with keyholes: unlock the door remotely, and start or stop the engine with the included Doosan Smart Key.

NEW DOOSAN ENGINE

Exceptionally powerful – with high torque at low revs – the new Doosan engine combines reliability and low environmental impact. This Stage V compliant 6 cylinder engine delivers 174 hp at 2000 rpm.

FULL CONTROL OVER FUEL CONSUMPTION

The latest evolution of the legendary Stage V Doosan DL06V engine, with significantly improved fuel economy thanks to a new travel mode using the flow of 2 pumps, automatically adjusts the required engine power and engine rpm to avoid lost energy. Take full control over your fuel consumption with a settable engine shut off and the automatic Smart Power Control (SPC). Easy on your wallet and the environment.

EASY MAINTENANCE

Maintenance data are directly available from the control panel. Easy access to filters from ground level. To protect coolers and minimize downtime, the cooling compartment is equipped with fine mesh for the intake air. These innovations make maintenance operations a pleasure.

AUTOMATIC DIGGING BRAKE

Activate the Auto Digging Brake function by pressing the button on the control switch. This function automatically holds the service brake when the vehicle stops (zero speed) without the operator stepping on the brake. When the transmission pedal is pressed, the brake is automatically released.


STAGE V
COMPLIANT
DOOSAN



TOP PERFORMANCE AND FUEL EFFICIENCY

THE POWER TO RAISE PRODUCTIVITY

- The DX190W-7 is equipped with the latest generation Doosan engine
- Stage V compliant, this engine boasts extremely low emissions because reducing our environmental impact is paramount to us
- Exhaust gases are purified by Selective Catalytic Reduction (SCR) technology, a Diesel Oxidation Catalyst (DOC) and a Diesel Particulate Filter (DPF)

EFFICIENT FUEL MANAGEMENT

- Choice of 4 power modes (Eco - Standard - Power - Power Plus) and automatic Smart Power Control system for optimal power and reduced fuel consumption in all conditions
- Smart Power Control (SPC) system: reduces engine speed and adjusts pump torque according to work conditions. The system automatically adjusts engine power and hydraulic output to improve fuel efficiency and reduce emissions
- New traveling mode, using the flow of the 2 hydraulic pumps, to reduce the engine rpm and fuel consumption
- Engine auto-shut-off: shuts down the engine after the machine has been idling for a specified time. The operator can set the delay before shut-off via the Doosan Smart Touch screen

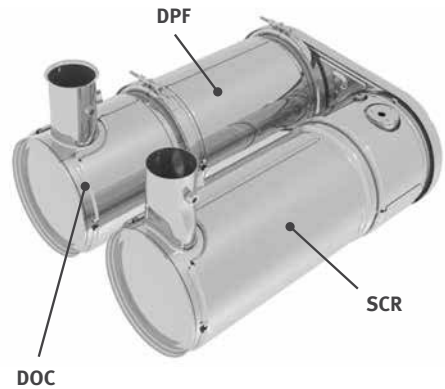
VARIABLE PRESSURE TURBOCHARGER

Provides optimal air flow to the engine combustion chamber under all speed and load conditions, so that exhaust gas is cleaner and fuel economy is improved.

SPC3 (3RD GENERATION OF SMART POWER CONTROL)

To improve fuel efficiency and reduce emissions, the SPC3 reduces engine speed and adjusts pump torque automatically, according to work conditions.







RELIABILITY – THE HABIT OF A LIFETIME

In your profession, you need equipment you can depend on. At Doosan, we put durability and reliability at the core of our machines' development. Our materials and structures undergo stringent testing for strength and resilience under the most extreme conditions.

DESIGNED FOR LONG-TERM, ALL-ROUND, HEAVY-DUTY PERFORMANCE

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 for digging and lifting operations.

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.
A new travel mode, using the flow of 2 pumps, automatically adjusts the required engine power and rpm to avoid lost energy and provide the best fuel consumption.

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.

STRENGTHENED BOOM AND ARM

During the development of our machines, we use intensive testing 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 center and end boss have been strengthened.

ADVANCED FILTRATION

- Fuel filters and water separator: a filter-type high-performance water separator effectively captures moisture in the fuel, reducing impurities and helping minimize any fuel-related issues. Pre-filters and dual main filters as standard achieve a high degree of purity that minimizes fuel system failures.
- Cyclonic air pre-cleaner: air filter life and engine efficiency are directly related to the amount of debris ingested through the engine's air intake. Therefore, a cyclonic air pre-cleaner (as standard) is the first stage of an air intake system that prevents the majority of heavier-than-air particles from entering. Self-cleaning and maintenance-free, the system is able to expel all types of mixed debris, including mud, snow, rain, leaves, sawdust, chaff, etc.

PIN AND 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. These have a tailored surface pattern and self-lubricating coating for optimized greasing and more efficient debris removal. Ultra-hard wear-resistant discs and bucket pivot polymer shims increase durability even more.

Exclusive parallel dozer and independent stabilizers are symmetrical for better customization – which also facilitates remarketing for the second-hand business:

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






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1. Parallel wiper
2. 360° all-around view camera (AVM) (optional)
3. Doosan Smart Touch
4. Proportional switch
5. Joystick 1-touch function button
6. Breaker/Booster button
7. Redesigned pedals
8. Flat, spacious, easy-to-clean floor
9. Joysticks and switches are integrated in adjustable control consoles
10. Heated and cooled (option) seat
11. Improved visibility on the bottom right
12. Separate seat height adjustment lever and cushion tilting function
13. Fully adjustable steering column

11

OPERATING IN HIGH COMFORT

BEST-IN-CLASS OPERATOR ENVIRONMENT

The DX190W-7 is designed to provide you with the best possible working conditions. The sophisticated state-of-the-art ROPS cab is pressurized and ISO-certified for your safety. A high-quality heated seat (and even seat cooling available as an option) with air suspension provides maximum operator comfort.
Make the most of the spacious and comfortable cab by tilting the redesigned, adjustable steering wheel column forward when not in use.

UNRIVALLED COMFORT

Comfortably seated, you benefit from a clear all-round view of the worksite and have easy access to several storage compartments. Noise and vibration levels are remarkably low, while air conditioning and automatic climate control allow you to keep working for hours on end without feeling tired.
Pedals, joysticks and armrests have all been designed for operator comfort and efficiency.

CAB SUSPENSION

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

DOOSAN SMART TOUCH

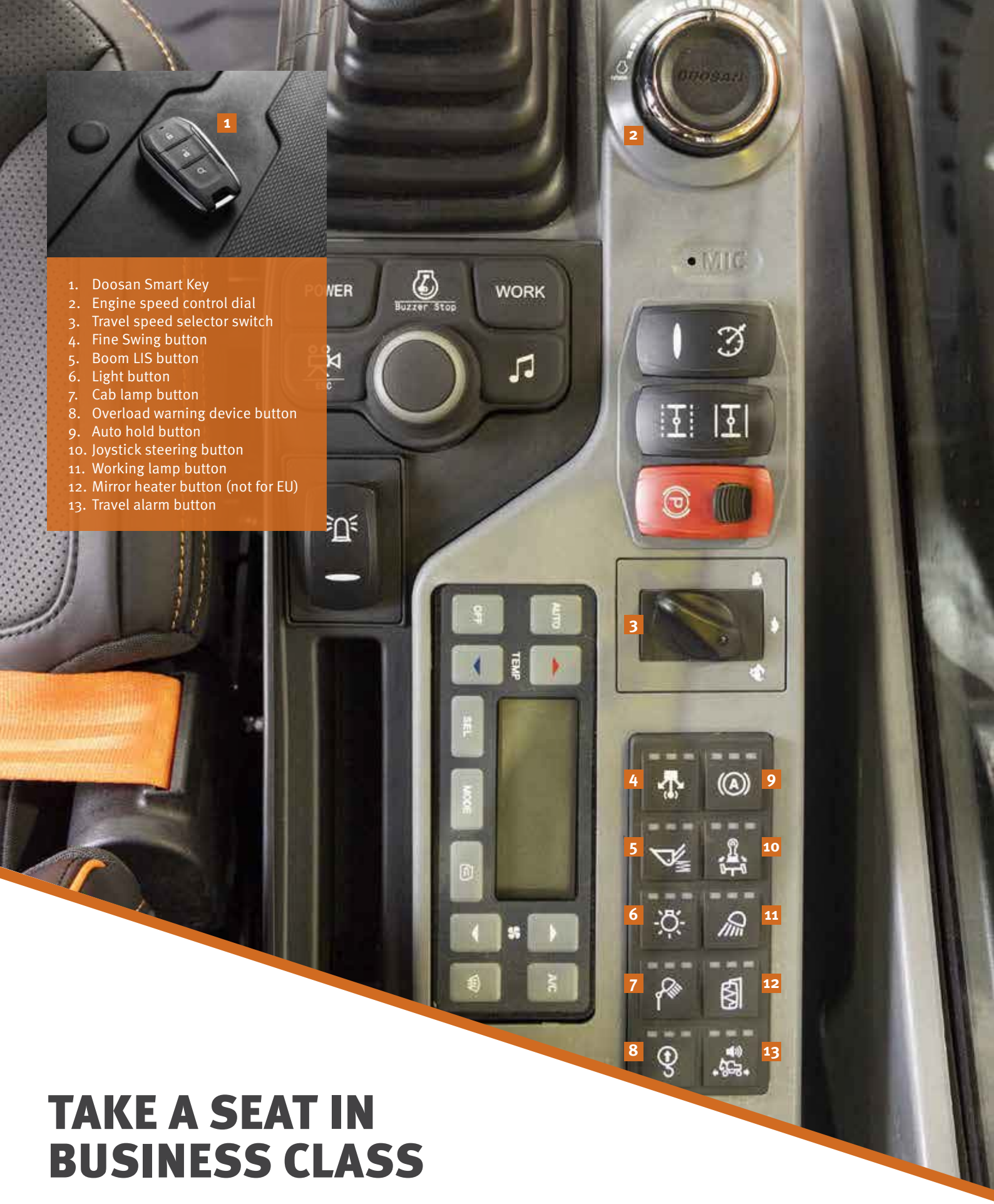
The wide 8" Doosan Smart Touch screen provides easy scrolling through the different menus, including power settings and auxiliary hydraulics settings. It also allows you to connect a Bluetooth device or listen to your favorite radio station.

360° ALL-AROUND VIEW CAMERA (AVM) SYSTEM (OPTION)

The 360° all-around view camera (AVM) system gives you full view of the machine's surroundings.







1. Doosan Smart Key
2. Engine speed control dial
3. Travel speed selector switch
4. Fine Swing button
5. Boom LIS button
6. Light button
7. Cab lamp button
8. Overload warning device button
9. Auto hold button
10. Joystick steering button
11. Working lamp button
12. Mirror heater button (not for EU)
13. Travel alarm button

TAKE A SEAT IN BUSINESS CLASS

The ergonomic controls, the easy-to-view color monitor, and Doosan Smart Touch place the machine firmly in your hands.

TOTAL CONTROL IN ALL SIMPLICITY

DYNAMIC POWER MANAGEMENT

- Automatic travel speed range selection (slow/fast)
- Activating the power boost control system increases digging force by 10%
- A 1-touch deceleration button immediately reduces engine speed to low idle
- Auto-idling starts 4 seconds (adjustable) after all controls are returned to neutral – reducing fuel consumption and noise levels in the cab

EFFORTLESS OPERATION

Steer the machine without taking your hand off the joystick with optional electric steering using a thumbwheel. For added comfort, you can quickly switch the function on and off by pressing and holding the roller.

LOAD ISOLATION SYSTEM (LIS)

Bumpy terrain ahead? We have you covered. Our switchable Load Isolation System largely mitigates the impact of bumps on the cab – enabling a smooth ride, increased productivity, and improved safety even on bumpy ground.

DOOSAN SMART KEY

We bring automotive standards and comfort to construction machinery:

- Search function
- Coming/leaving home light function
- Remote door opening
- Keyless engine start

FINE SWING MODE

Enjoy significantly reduced shock and better productivity when handling loads, thanks to our switchable Fine Swing feature. This feature prevents bumps at the start and end of any boom movement (recommended for flat surfaces only).

4 WORK MODES AND 4 POWER MODES

These modes deliver the needed power, according to your specific application, while minimizing fuel consumption:

- Work modes: 1-way mode, 2-way mode, Digging mode and Lifting mode
  With the 2-way mode, we offer a priority valve on the attachment line to increase the machine's productivity when using an attachment and moving the arm at the same time. Engage the Tilt Rotator mode for increased accuracy by enabling smart distribution of hydraulic flow to eliminate back pressure.
- Power modes: Power Plus mode, Power mode, Standard mode, Economy mode

EXPERT FINGERTIP CONTROL

- The new multi-function 8" Doosan Smart Touch screen displays all useful information in a visual and intuitive format.
- At a glance, you can check the machine’s status and settings to achieve optimal efficiency.
- Doosan’s unique jog shuttle switch gives you easy and precise control over all machine functions.
- Highly sensitive and low-effort joysticks enable you to work safely, smoothly and confidently.
- The proportional thumb switches on the joysticks can be mounted horizontally or vertically, as the operator prefers, for optimal control of hydraulic attachments.

SIMPLE CUSTOMIZATION

Thanks to Doosan's Smart Junction Box, managing electric equipment is a breeze with easy access and intuitive layout of all components.

AUTO DIGGING BRAKE

Automatically holds the service brake when the vehicle stops (speed is zero) without the driver stepping on the brake. When the transmission pedal is pressed, the brake is automatically released.




DOOSAN

SIMPLE MAINTENANCE FOR MAXIMUM 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 air conditioning filter is placed on the side of the cab for easy access. The filter's cover can be locked and opened with a key.
- A battery cut-off switch makes it easy to disconnect the battery for 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.
- The radiator and oil cooler have been separated, making access for cleaning easier.
- For extra accessibility and servicing convenience, all filters (engine oil filter, fuel pre-filters, fuel filters and pilot filter) are located in the pump compartment.
- An electric transfer pump for initial priming of fuel filters is featured as standard.

ADBLUE® TANK

Connected to the ECU, sensors in the tank detect low levels of AdBlue® or any other system malfunction. To prevent over-filling during refilling, the machine is also equipped with an AdBlue® level indicator (LED light).

CENTRALIZED GREASING POINTS

To make maintenance easier, the greasing points have been centralized. An automatic lubrication system is available as an option.



TECHNICAL SPECIFICATIONS

ENGINE

Designed to deliver superior performance and fuel efficiency, the Doosan DL06V diesel engine fully meets the latest Stage V emission regulations. To optimize machine performance, the engine uses high-pressure fuel injectors, air-to-air inter-cooler and electronic engine controls. 4-Cycle Water-Cooled, Wastegate Turbocharged, Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction (SCR) and Diesel Particulate Filter (DPF).

Model

Doosan DL06V

No. of cylinders

6

Rated power at 1900 rpm

SAE J1995	129.8 kW (174 hp)
SAE J1349	121 kW (162 hp)

Max. torque at 1400 rpm

77 kgf·m

Idle (low - high)

800 [±10] - 2000 [±25] rpm

Displacement

5890 cm³

Bore × stroke

100 mm × 125 mm

Starter

24 V / 6 kW

Batteries – Alternator

2 × 12 V, 100 Ah – 24 V, 100 A

Air filter

Double element air cleaner and pre-filtered Cyclone Turbo dust separator

HYDRAULIC SYSTEM

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

Work	34.3 MPa
Travel	36.3 MPa

Pumps	Type	Max. flow at 1900 rpm	Relief valve pressure
Main	2 × parallel bent-axis axial piston	2 × 200 l/min	34.3 MPa
Pilot	Gear	26.1 l/min	4 MPa
Steering	Gear	65.7 l/min	19~20 MPa
Brake	Gear	21.3 l/min	15.7 MPa

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. Heavy-duty front axle with automatic or operator-controlled (on/off/auto) front axle oscillation lock.

Tire dimensions

10.00 - 20-16 PR

Overall width (standard axle / wide axle)

2530 mm / 2750 mm

Wheel base

2650 mm

Tread width (standard axle / wide axle)

1944 mm / 2114 mm

Oscillation angle

± 8°

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)
Mono boom	2	120 × 85 × 1180
Articulated boom, lower	2	120 × 85 × 1015
Articulated boom, upper	1	160 × 95 × 760
Arm for mono boom	1	125 × 90 × 1470
Arm for articulated boom	1	125 × 90 × 1470
Bucket	1	110 × 75 × 1030
Blade	2	110 × 70 × 170
Stabilizers	2	130 × 80 × 397
Chocking	2	100 × 100 × 153

CAB

The air-conditioning and heating systems are integrated for optimal climate control. An automatically-controlled fan supplies the pressurized and filtered cab air, which is distributed throughout the cab from multiple vents.
The heated air suspension, adjustable operator's seat includes a seat belt. The operator can adjust the ergonomic seat and joystick console separately according to his preferences.

A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)

Declared: 70 dB(A)
Measured: 69 dB(A)

A-weighted sound power level, LwAd (2000/14/EC)

Declared: 99 dB(A)
Measured: 98 dB(A)

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

Maximum swing speed

11.8 rpm

Maximum swing torque

5030 kgf·m

FLUID CAPACITIES

Fuel tank	301 l
Cooling system	31.5 l
AdBlue® (DEF) tank	31.5 l
Hydraulic oil tank	192 l
Engine oil	27 l
Swing device	5 l

DRIVE

The wheels are driven by a bent axial piston engine via a 2-speed powershift transmission. In addition to the 2-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.

Travel speed (creep/low/high)

3.5 / 10 / 37 km/h

Maximum traction force

11.8 t

Minimum turning radius

6125 mm

Gradeability

58% (29°)

BRAKES

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

Accumulators

0.75 l - 3 MPa

BUCKETS

Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	Digging force (ISO) (Normal / Press. up) (ton)
		With side cutters	W/O side cutters		
STD Mono boom	0.8	1127	1079	616	13.1 / 13.8
STD Articulated boom	0.76	1127	1079	606	13.1 / 13.8

TECHNICAL SPECIFICATIONS

COMPONENT WEIGHTS

Item	Weight (kg)	Remarks
Upper structure without front	9480	With counterweight
Undercarriage	5845	Including stabilizers/blade, front cradle and rear dozer
Front assembly	3485	
Counterweight	3220	
Mono boom (5.2 m)	1143	
Arm (2.2 m /2.6 m / 3.1 m)	535 / 554 / 644	for mono boom
Articulated boom (upper / lower)	873 / 506	
Arm (2.3 m / 2.6 m)	532 / 554	for articulated boom
Bucket (0.8 m³ / 0.76 m³)	616 / 606	
Boom cylinder (for mono boom / articulated boom)	161 / 120.5	each
Arm cylinder	210	
Bucket cylinder	136	
Dozer	863	
Dozer cylinder	84	each
Stabilizer	1221	
Stabilizer cylinder	113	each

OPERATING WEIGHT

Operating weight	kg	18320	20070	19240	20410
Boom	m	5.2 mono boom	5.2 mono boom	5.44 articulated boom	5.44 articulated boom
Arm	m	2.6	3.1	2.3	2.6
Bucket	m³	0.8	0.8	0.76	0.76
Counterweight	kg	3220	3220	3220	3220
Undercarriage attachment - front	-	cradle	dozer	cradle	dozer
Undercarriage attachment - rear	-	dozer	stabilizers	dozer	stabilizers

DOOSAN BUCKETS

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

General Construction Bucket



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

Heavy Construction Bucket



The Heavy duty bucket is designed for mass excavations in dense materials such as hard packed clay, shot limestone, limited rock content and gravel.

Severe Mining Bucket



The Severe duty bucket is designed for durability in digging compact materials like loose or blasted rock, hard packed clay and stone.

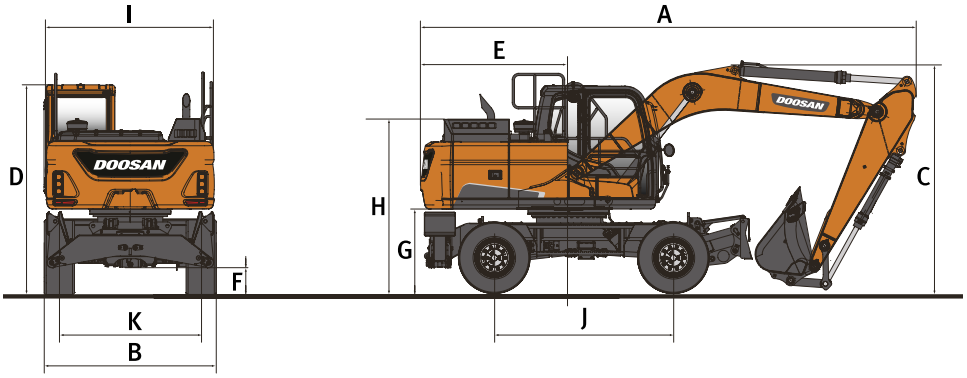
X-treme Mining Bucket



The X-treme duty bucket is designed as a long-life version of the Severe duty bucket for digging in the most abrasive materials.


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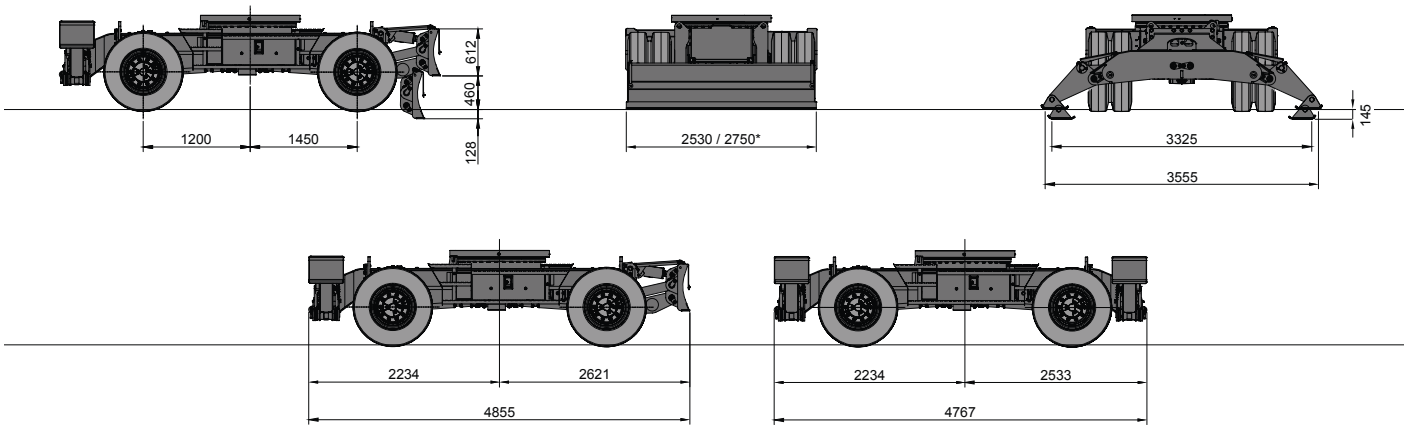
DIMENSIONS



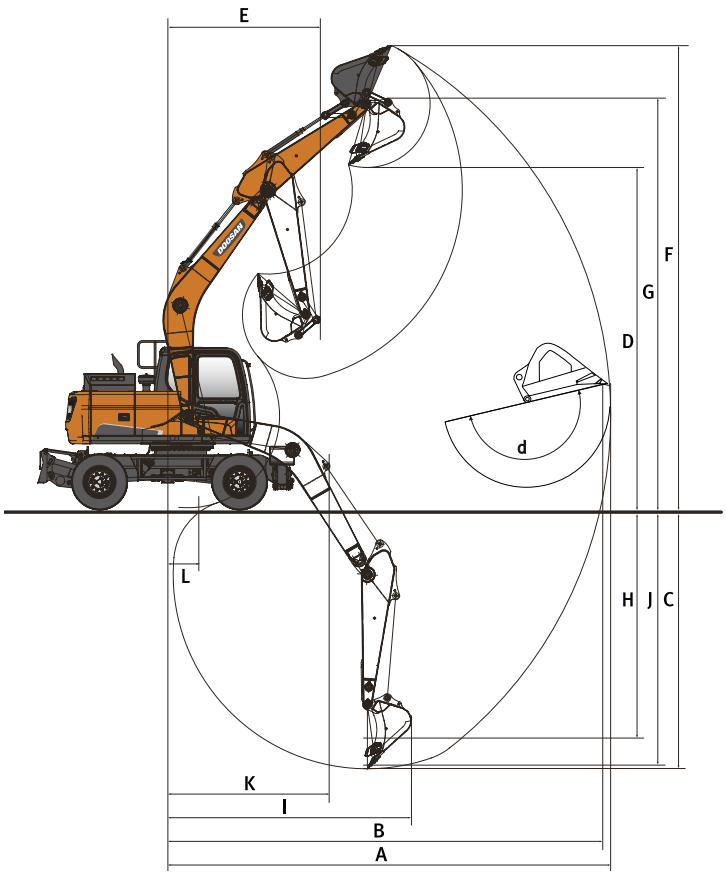
DIMENSIONS

		Unit	Mono boom			Articulated boom	
Boom length		**mm**	**5200**			**5440**	
Arm length		**mm**	**2200**	**2600**	**3100**	**2300**	**2600**
A	Shipping length	mm	8974	8867	8970	9233	9234
B	Shipping width (std axle)	mm	2530	2530	2530	2530	2530
	Shipping width (wide axle)	mm	2750	2750	2750	2750	2750
C	Shipping height (boom)	mm	2900	2750	3225	2720	2850
	Shipping height (hose)	mm	3035	2845	3415	2850	2980
D	Height over cab	mm	3131	3131	3131	3131	3131
	Height over cab (guardrail)	mm	3321	3321	3321	3321	3321
E	Tail swing radius	mm	2612	2612	2612	2555	2555
F	Ground clearance	mm	348	348	348	348	348
G	Counterweight clearance	mm	1244	1244	1244	1244	1244
H	Engine cover height	mm	2291	2291	2291	2291	2291
I	Upper housing width	mm	2530	2530	2530	2530	2530
J	Wheel base	mm	2650	2650	2650	2650	2650
K	Tread width (std axle)	mm	1944	1944	1944	1944	1944
	Tread width (wide axle)	mm	2114	2114	2114	2114	2114
	Driving length	mm	8717	8625	8630	8717	8625
	Driving height (boom)	mm	3955	3920	3980	3957	3920
	Driving height (hose)	mm	3995	3985	4000	3994	3987

* wide axle



WORKING RANGE



WORKING RANGE

		Unit	Mono boom			Articulated boom	
Boom length		**mm**	**5200**			**5440**	
Arm length		**mm**	**2200**	**2600**	**3100**	**2300**	**2600**
A	Max. digging reach	mm	8875	9255	9610	9450	9750
B	Max. digging reach (ground)	mm	8660	9050	9415	9255	9555
C	Max. digging depth	mm	5320	5725	6225	5610	5915
D	Max. loading height	mm	6520	6765	6780	7805	8065
E	Min. swing radius	mm	3035	3170	3180	2995	3175
F	Max. digging height	mm	9195	9440	9380	10625	10885
G	Max. bucket pin height	mm	7935	8180	8195	9210	9475
H	Max. vertical wall depth	mm	4365	4740	4785	4630	4900
I	Max. radius vertical	mm	6170	6330	6805	5680	5810
J	Max. digging depth (8'level)	mm	5095	5530	6035	5505	5815
K	Min. radius 8'level	mm	2740	2755	2705	930	935
L	Min. digging reach (mono boom)	mm	1245	390	-150	930	935
d	Bucket angle	°	182	182	182	182	182

LIFTING CAPACITIES

STANDARD AXLES • W/O BUCKET

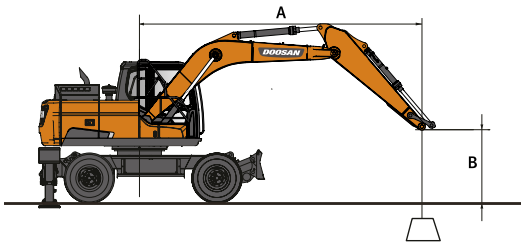
(UNIT: 1000 KG)

A	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
B														A
Mono boom 5.2 m • Arm 2.6 m • Counterweight 3.2 t														
7.5 m	F-Cradle + R-Dozer Down											3.48*	3.48*	5.38
	F-Cradle + R-Dozer Up											3.48*	3.48*	5.38
	F-Dozer + R-Stabilizer Down											3.48*	3.48*	5.38
	F-Dozer + R-Stabilizer Up											3.48*	3.48*	5.38
6.0 m	F-Cradle + R-Dozer Down							5.10*	3.57			3.10*	2.98	6.65
	F-Cradle + R-Dozer Up							3.87	3.28			3.10*	2.73	6.65
	F-Dozer + R-Stabilizer Down							5.10*	5.10*			3.10*	3.10*	6.65
	F-Dozer + R-Stabilizer Up							5.10*	3.45			3.10*	2.88	6.65
4.5 m	F-Cradle + R-Dozer Down					6.77*	5.43	5.93*	3.48			2.99*	2.46	7.39
	F-Cradle + R-Dozer Up					5.95	4.97	3.78	3.19			2.67	2.25	7.39
	F-Dozer + R-Stabilizer Down					6.77*	6.77*	5.93*	5.38			2.99*	2.99*	7.39
	F-Dozer + R-Stabilizer Up					6.77*	5.21	5.13	3.36			2.99*	2.38	7.39
3.0 m	F-Cradle + R-Dozer Down					8.45*	5.03	6.64*	3.31	4.66*	2.35	3.03*	2.21	7.76
	F-Cradle + R-Dozer Up					5.52	4.58	3.60	3.02	2.55	2.14	2.40	2.02	7.76
	F-Dozer + R-Stabilizer Down					8.45*	8.10	6.64*	5.20	4.66*	3.70	3.03*	3.03*	7.76
	F-Dozer + R-Stabilizer Up					7.69	4.81	4.95	3.19	3.52	2.27	3.03*	2.14	7.76
1.5 m	F-Cradle + R-Dozer Down					9.96*	4.65	7.35*	3.14	5.60*	2.27	3.22*	2.13	7.83
	F-Cradle + R-Dozer Up					5.13	4.22	3.42	2.85	2.47	2.07	2.32	1.94	7.83
	F-Dozer + R-Stabilizer Down					9.96*	7.67	7.35*	5.01	5.60*	3.62	3.22*	3.22*	7.83
	F-Dozer + R-Stabilizer Up					7.27	4.45	4.76	3.02	3.44	2.20	3.22*	2.06	7.83
0.0 m	F-Cradle + R-Dozer Down			7.03*	7.03*	10.59*	4.45	7.74*	3.02	4.64*	2.23	3.61*	2.19	7.60
	F-Cradle + R-Dozer Up			7.03*	7.03*	4.93	4.02	3.30	2.74	2.42	2.02	2.38	1.99	7.60
	F-Dozer + R-Stabilizer Down			7.03*	7.03*	10.59*	7.44	7.74*	4.88	4.64*	3.57	3.61*	3.51	7.60
	F-Dozer + R-Stabilizer Up			7.03*	7.03*	7.05	4.26	4.63	2.90	3.39	2.15	3.33	2.11	7.60
-1.5 m	F-Cradle + R-Dozer Down	7.45*	7.45*	11.92*	8.14	10.26*	4.41	7.52*	2.98			4.36*	2.43	7.03
	F-Cradle + R-Dozer Up	7.45*	7.45*	9.30	7.24	4.88	3.98	3.26	2.70			2.65	2.21	7.03
	F-Dozer + R-Stabilizer Down	7.45*	7.45*	11.92*	11.92*	10.26*	7.39	7.52*	4.84			4.36*	3.90	7.03
	F-Dozer + R-Stabilizer Up	7.45*	7.45*	11.92*	7.65	7.00	4.21	4.59	2.87			3.71	2.35	7.03
-3.0 m	F-Cradle + R-Dozer Down			12.36*	8.33	8.83*	4.49	6.06*	3.07			5.95*	3.04	6.04
	F-Cradle + R-Dozer Up			9.50	7.41	4.97	4.06	3.35	2.79			3.32	2.77	6.04
	F-Dozer + R-Stabilizer Down			12.36*	12.36*	8.83*	7.49	6.06*	4.93			5.95*	4.89	6.04
	F-Dozer + R-Stabilizer Up			12.36*	7.82	7.09	4.29	4.69	2.95			4.64	2.93	6.04

STANDARD AXLES • W/O BUCKET

(UNIT: 1000 KG)

A / B	Chassis Frame Attachment	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		Max. reach		
Mono boom 5.2 m • Arm 3.1 m • Counterweight 3.2 t														
7.5 m	F-Cradle + R-Dozer Down											3.20*	3.20*	5.90
	F-Cradle + R-Dozer Up											3.20*	3.20*	5.90
	F-Dozer + R-Stabilizer Down											3.20*	3.20*	5.90
	F-Dozer + R-Stabilizer Up											3.20*	3.20*	5.90
6.0 m	F-Cradle + R-Dozer Down							4.74*	3.63			2.95*	2.72	7.07
	F-Cradle + R-Dozer Up							3.93	3.33			2.94	2.49	7.07
	F-Dozer + R-Stabilizer Down							4.74*	4.74*			2.95*	2.95*	7.07
	F-Dozer + R-Stabilizer Up							4.74*	3.50			2.95*	2.62	7.07
4.5 m	F-Cradle + R-Dozer Down							5.45*	3.51	3.82*	2.42	2.90*	2.27	7.76
	F-Cradle + R-Dozer Up							3.81	3.22	2.62	2.21	2.46	2.07	7.76
	F-Dozer + R-Stabilizer Down							5.45*	5.43	3.82*	3.78	2.90*	2.90*	7.76
	F-Dozer + R-Stabilizer Up							5.18	3.39	3.60	2.34	2.90*	2.19	7.76
3.0 m	F-Cradle + R-Dozer Down			11.74*	9.42	7.74*	5.11	6.22*	3.33	5.09*	2.34	2.99*	2.04	8.12
	F-Cradle + R-Dozer Up			10.69	8.46	5.61	4.66	3.62	3.04	2.54	2.13	2.22	1.86	8.12
	F-Dozer + R-Stabilizer Down			11.74*	11.74*	7.74*	7.74*	6.22*	5.22	5.09*	3.70	2.99*	2.99*	8.12
	F-Dozer + R-Stabilizer Up			11.74*	8.87	7.74*	4.89	4.97	3.2	3.52	2.26	2.99*	1.97	8.12
1.5 m	F-Cradle + R-Dozer Down					9.44*	4.68	7.03*	3.12	5.65	2.25	3.21*	1.96	8.19
	F-Cradle + R-Dozer Up					5.17	4.24	3.41	2.84	2.45	2.04	2.13	1.78	8.19
	F-Dozer + R-Stabilizer Down					9.44*	7.71	7.03*	5.00	5.81*	3.60	3.21*	3.15	8.19
	F-Dozer + R-Stabilizer Up					7.31	4.48	4.75	3.01	3.42	2.17	2.99	1.89	8.19
0.0 m	F-Cradle + R-Dozer Down			8.33*	7.97	10.39*	4.42	7.57*	2.98	5.56	2.18	3.62*	2.00	7.97
	F-Cradle + R-Dozer Up			8.33*	7.07	4.89	3.98	3.26	2.69	2.37	1.97	2.18	1.81	7.97
	F-Dozer + R-Stabilizer Down			8.33*	8.33*	10.39*	7.41	7.57*	4.84	6.01*	3.52	3.62*	3.23	7.97
	F-Dozer + R-Stabilizer Up			8.33*	7.48	7.01	4.22	4.59	2.86	3.34	2.10	3.07	1.93	7.97
-1.5 m	F-Cradle + R-Dozer Down	7.38*	7.38*	11.85*	7.96	10.39*	4.32	7.60*	2.91			4.40*	2.19	7.43
	F-Cradle + R-Dozer Up	7.38*	7.38*	9.11	7.06	4.79	3.89	3.19	2.63			2.39	1.98	7.43
	F-Dozer + R-Stabilizer Down	7.38*	7.38*	11.85*	11.85*	10.39*	7.30	7.60*	4.77			4.40*	3.54	7.43
	F-Dozer + R-Stabilizer Up	7.38*	7.38*	11.85*	7.47	6.91	4.13	4.52	2.79			3.36	2.11	7.43
-3.0 m	F-Cradle + R-Dozer Down	11.39*	11.39*	13.51*	8.11	9.38*	4.36	6.76*	2.94			5.93*	2.66	6.51
	F-Cradle + R-Dozer Up	11.39*	11.39*	9.27	7.20	4.84	3.93	3.22	2.66			2.90	2.41	6.51
	F-Dozer + R-Stabilizer Down	11.39*	11.39*	13.51*	13.51*	9.38*	7.35	6.76*	4.80			5.93*	4.30	6.51
	F-Dozer + R-Stabilizer Up	11.39*	11.39*	13.51*	7.61	6.95	4.17	4.56	2.83			4.09	2.56	6.51
-4.5 m	F-Cradle + R-Dozer Down			9.63*	8.44	6.66*	4.57					5.72*	4.01	4.96
	F-Cradle + R-Dozer Up			9.63	7.51	5.05	4.13					4.41	3.63	4.96
	F-Dozer + R-Stabilizer Down			9.63*	9.63*	6.66*	6.66*					5.72*	5.72*	4.96
	F-Dozer + R-Stabilizer Up			9.63*	7.93	6.66*	4.37					5.72*	3.84	4.96



: 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

STANDARD AXLES • W/O BUCKET

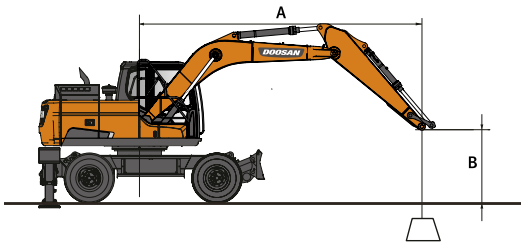
(UNIT: 1000 KG)

A / B	Chassis Frame Attachment	4.5 m		6.0 m		7.5 m		Max. reach		
										A
Articulated boom 5.44 m • Arm 2.3 m • Counterweight 3.2 t										
9.0 m	F-Cradle + R-Dozer Down							5.06*	5.06*	3.46
	F-Cradle + R-Dozer Up							5.06*	5.06*	3.46
	F-Dozer + R-Stabilizer Down							5.06*	5.06*	3.46
	F-Dozer + R-Stabilizer Up							5.06*	5.06*	3.46
7.5 m	F-Cradle + R-Dozer Down	5.59*	5.59*					3.38*	3.38*	5.67
	F-Cradle + R-Dozer Up	5.59*	5.16					3.38*	3.38*	5.67
	F-Dozer + R-Stabilizer Down	5.59*	5.59*					3.38*	3.38*	5.67
	F-Dozer + R-Stabilizer Up	5.59*	5.40					3.38*	3.38*	5.67
6.0 m	F-Cradle + R-Dozer Down	5.79*	5.54	5.42*	3.48			2.87*	2.71	6.87
	F-Cradle + R-Dozer Up	5.79*	5.08	3.79	3.19			2.87*	2.48	6.87
	F-Dozer + R-Stabilizer Down	5.79*	5.79*	5.42*	5.41			2.87*	2.87*	6.87
	F-Dozer + R-Stabilizer Up	5.79*	5.31	5.16	3.36			2.87*	2.62	6.87
4.5 m	F-Cradle + R-Dozer Down	6.93*	5.22	5.81*	3.37	3.87*	2.33	2.67*	2.27	7.59
	F-Cradle + R-Dozer Up	5.74	4.76	3.67	3.08	2.53	2.12	2.47	2.06	7.59
	F-Dozer + R-Stabilizer Down	6.93*	6.93*	5.81*	5.29	3.87*	3.69	2.67*	2.67*	7.59
	F-Dozer + R-Stabilizer Up	6.93*	5.00	5.03	3.24	3.51	2.24	2.67*	2.19	7.59
3.0 m	F-Cradle + R-Dozer Down	8.60*	4.78	6.52*	3.19	5.60*	2.28	2.61*	2.06	7.96
	F-Cradle + R-Dozer Up	5.27	4.33	3.48	2.90	2.48	2.07	2.25	1.87	7.96
	F-Dozer + R-Stabilizer Down	8.60*	7.85	6.52*	5.09	5.60*	3.64	2.61*	2.61*	7.96
	F-Dozer + R-Stabilizer Up	7.44	4.56	4.84	3.06	3.46	2.20	2.61*	1.99	7.96
1.5 m	F-Cradle + R-Dozer Down	9.96*	4.44	7.21*	3.02	5.64	2.21	2.67*	2.00	8.02
	F-Cradle + R-Dozer Up	4.92	4.00	3.31	2.73	2.41	2.00	2.18	1.81	8.02
	F-Dozer + R-Stabilizer Down	9.96*	7.47	7.21*	4.90	5.88*	3.57	2.67*	2.67*	8.02
	F-Dozer + R-Stabilizer Up	7.07	4.24	4.66	2.90	3.39	2.13	2.67*	1.93	8.02
0.0 m	F-Cradle + R-Dozer Down	10.42*	4.32	7.59*	2.92	5.60	2.17	2.85*	2.07	7.80
	F-Cradle + R-Dozer Up	4.79	3.88	3.21	2.64	2.37	1.96	2.26	1.88	7.80
	F-Dozer + R-Stabilizer Down	10.42*	7.32	7.59*	4.80	5.97*	3.53	2.85*	2.85*	7.80
	F-Dozer + R-Stabilizer Up	6.92	4.12	4.55	2.81	3.35	2.09	2.85*	2.00	7.80
-1.5 m	F-Cradle + R-Dozer Down	10.07*	4.33	7.45*	2.92			3.24*	2.32	7.25
	F-Cradle + R-Dozer Up	4.81	3.89	3.21	2.64			2.53	2.10	7.25
	F-Dozer + R-Stabilizer Down	10.07*	7.34	7.45*	4.79			3.24*	3.24*	7.25
	F-Dozer + R-Stabilizer Up	6.94	4.13	4.55	2.80			3.24*	2.23	7.25
Articulated boom 5.44 m • Arm 2.6 m • Counterweight 3.2 t										
9.0 m	F-Cradle + R-Dozer Down							4.19*	4.19*	4.13
	F-Cradle + R-Dozer Up							4.19*	4.19*	4.13
	F-Dozer + R-Stabilizer Down							4.19*	4.19*	4.13
	F-Dozer + R-Stabilizer Up							4.19*	4.19*	4.13
7.5 m	F-Cradle + R-Dozer Down	5.16*	5.16*	3.77*	3.48			3.01*	3.01*	6.09
	F-Cradle + R-Dozer Up	5.16*	5.16*	3.77*	3.18			3.01*	3.01*	6.09
	F-Dozer + R-Stabilizer Down	5.16*	5.16*	3.77*	3.77*			3.01*	3.01*	6.09
	F-Dozer + R-Stabilizer Up	5.16*	5.16*	3.77*	3.35			3.01*	3.01*	6.09
6.0 m	F-Cradle + R-Dozer Down	5.42*	5.42*	5.14*	3.53			2.60*	2.52	7.22
	F-Cradle + R-Dozer Up	5.42*	5.15	3.84	3.24			2.60*	2.30	7.22
	F-Dozer + R-Stabilizer Down	5.42*	5.42*	5.14*	5.14*			2.60*	2.60*	7.22
	F-Dozer + R-Stabilizer Up	5.42*	5.39	5.14*	3.41			2.60*	2.44	7.22
4.5 m	F-Cradle + R-Dozer Down	6.55*	5.30	5.58*	3.41	4.94*	2.37	2.43*	2.14	7.90
	F-Cradle + R-Dozer Up	5.82	4.84	3.71	3.12	2.57	2.15	2.33	1.94	7.90
	F-Dozer + R-Stabilizer Down	6.55*	6.55*	5.58*	5.33	4.94*	3.73	2.43*	2.43*	7.90
	F-Dozer + R-Stabilizer Up	6.55*	5.08	5.08	3.28	3.55	2.28	2.43*	2.06	7.90
3.0 m	F-Cradle + R-Dozer Down	8.24*	4.85	6.32*	3.22	5.44*	2.30	2.38*	1.95	8.26
	F-Cradle + R-Dozer Up	5.35	4.40	3.51	2.93	2.50	2.09	2.13	1.77	8.26
	F-Dozer + R-Stabilizer Down	8.24*	7.94	6.32*	5.12	5.44*	3.66	2.38*	2.38*	8.26
	F-Dozer + R-Stabilizer Up	7.53	4.64	4.87	3.10	3.48	2.21	2.38*	1.88	8.26
1.5 m	F-Cradle + R-Dozer Down	9.72*	4.48	7.07*	3.04	5.65	2.21	2.43*	1.90	8.32
	F-Cradle + R-Dozer Up	4.97	4.04	3.33	2.75	2.42	2.01	2.07	1.72	8.32
	F-Dozer + R-Stabilizer Down	9.72*	7.52	7.07*	4.93	5.78*	3.57	2.43*	2.43*	8.32
	F-Dozer + R-Stabilizer Up	7.12	4.28	4.68	2.92	3.39	2.13	2.43*	1.83	8.32
0.0 m	F-Cradle + R-Dozer Down	10.38*	4.32	7.54*	2.93	5.59	2.16	2.59*	1.96	8.10
	F-Cradle + R-Dozer Up	4.80	3.88	3.21	2.64	2.37	1.96	2.14	1.77	8.10
	F-Dozer + R-Stabilizer Down	10.38*	7.33	7.54*	4.80	5.97*	3.52	2.59*	2.59*	8.10
	F-Dozer + R-Stabilizer Up	6.93	4.12	4.56	2.81	3.34	2.08	2.59*	1.89	8.10
-1.5 m	F-Cradle + R-Dozer Down	10.21*	4.31	7.53*	2.90	4.39*	2.19	2.91*	2.17	7.58
	F-Cradle + R-Dozer Up	4.79	3.87	3.19	2.62	2.39	1.98	2.37	1.96	7.58
	F-Dozer + R-Stabilizer Down	10.21*	7.32	7.53*	4.78	4.39*	3.54	2.91*	2.91*	7.58
	F-Dozer + R-Stabilizer Up	6.92	4.11	4.53	2.79	3.37	2.11	2.91*	2.09	7.58

WIDE AXLES • W/O BUCKET

(UNIT: 1000 KG)

A / B	Chassis Frame Attachment	4.5 m		6.0 m		7.5 m		Max. reach		
										A
Articulated boom 5.44 m • Arm 2.6 m • Counterweight 3.2 t										
9.0 m	F-Cradle + R-Dozer Down							4.19*	4.19*	4.13
	F-Cradle + R-Dozer Up							4.19*	4.19*	4.13
	F-Dozer + R-Stabilizer Down							4.19*	4.19*	4.13
	F-Dozer + R-Stabilizer Up							4.19*	4.19*	4.13
7.5 m	F-Cradle + R-Dozer Down	5.16*	5.16*	3.77*	3.77*			3.01*	3.01*	6.09
	F-Cradle + R-Dozer Up	5.16*	5.16*	3.77*	3.49			3.01*	3.01*	6.09
	F-Dozer + R-Stabilizer Down	5.16*	5.16*	3.77*	3.77*			3.01*	3.01*	6.09
	F-Dozer + R-Stabilizer Up	5.16*	5.16*	3.77*	3.67			3.01*	3.01*	6.09
6.0 m	F-Cradle + R-Dozer Down	5.42*	5.42*	5.14*	3.90			2.60*	2.60*	7.22
	F-Cradle + R-Dozer Up	5.42*	5.42*	3.86	3.54			2.60*	2.53	7.22
	F-Dozer + R-Stabilizer Down	5.42*	5.42*	5.14*	5.14*			2.60*	2.60*	7.22
	F-Dozer + R-Stabilizer Up	5.42*	5.42*	5.14*	3.73			2.60*	2.60*	7.22
4.5 m	F-Cradle + R-Dozer Down	6.55*	5.88	5.58*	3.77	4.94*	2.62	2.43*	2.38	7.90
	F-Cradle + R-Dozer Up	5.85	5.32	3.73	3.42	2.59	2.37	2.34	2.14	7.90
	F-Dozer + R-Stabilizer Down	6.55*	6.55*	5.58*	5.58*	4.94*	3.91	2.43*	2.43*	7.90
	F-Dozer + R-Stabilizer Up	6.55*	5.58	5.07	3.60	3.55	2.52	2.43*	2.28	7.90
3.0 m	F-Cradle + R-Dozer Down	8.24*	5.42	6.32*	3.57	5.44*	2.55	2.38*	2.18	8.26
	F-Cradle + R-Dozer Up	5.38	4.87	3.53	3.23	2.51	2.30	2.14	1.96	8.26
	F-Dozer + R-Stabilizer Down	8.24*	8.24*	6.32*	5.37	5.44*	3.83	2.38*	2.38*	8.26
	F-Dozer + R-Stabilizer Up	7.52	5.13	4.86	3.41	3.47	2.45	2.38*	2.09	8.26
1.5 m	F-Cradle + R-Dozer Down	9.72*	5.04	7.07*	3.39	5.68	2.47	2.43*	2.12	8.32
	F-Cradle + R-Dozer Up	5.00	4.50	3.35	3.05	2.43	2.22	2.08	1.90	8.32
	F-Dozer + R-Stabilizer Down	9.72*	7.94	7.07*	5.17	5.78*	3.75	2.43*	2.43*	8.32
	F-Dozer + R-Stabilizer Up	7.10	4.77	4.67	3.23	3.39	2.36	2.43*	2.03	8.32
0.0 m	F-Cradle + R-Dozer Down	10.38*	4.87	7.54*	3.28	5.62	2.42	2.59*	2.19	8.10
	F-Cradle + R-Dozer Up	4.83	4.33	3.23	2.94	2.38	2.17	2.15	1.97	8.10
	F-Dozer + R-Stabilizer Down	10.38*	7.75	7.54*	5.05	5.97*	3.69	2.59*	2.59*	8.10
	F-Dozer + R-Stabilizer Up	6.92	4.60	4.55	3.12	3.33	2.31	2.59*	2.10	8.10
-1.5 m	F-Cradle + R-Dozer Down	10.21*	4.86	7.53*	3.25	4.39*	2.44	2.91*	2.42	7.58
	F-Cradle + R-Dozer Up	4.81	4.32	3.21	2.91	2.40	2.20	2.38	2.18	7.58
	F-Dozer + R-Stabilizer Down	10.21*	7.73	7.53*	5.02	4.39*	3.72	2.91*	2.91*	7.58
	F-Dozer + R-Stabilizer Up	6.90	4.59	4.52	3.10	3.36	2.34	2.91*	2.32	7.58



: 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.

STANDARD AND OPTIONAL EQUIPMENT

● Standard ○ Optional

Engine

- ● Doosan DL06V, Stage V compliant, SCR, DOC and DPF post treatment, water-cooled diesel engine with Wastegate Turbocharger and air-to-air intercooler
- ● Auto-idle function
- ● Auto shut-off
- ● No EGR

Hydraulic system

- ● Boom and arm flow regeneration
- ● Fine Swing mode, on or off from cab
- ● Swing anti-rebound valves
- ● Spare ports (valve)
- ● One-touch power boost function
- ● Double way line high flow + Breaker piping (PE3C)
- ● Smart Power Control (SPC3)
- ● Cylinder cushioning & contamination seals
- ● 2 pumps travelling
- ○ Clamshell piping (diverter valve from bucket cylinder)
- ○ Hydraulic piping low flow for rotating or tilting tool (joystick control)
- ○ Hydraulic piping for quick-coupler
- ○ Double pump flow for attachments
- ○ Boom suspension for travelling LIS
- ○ Electric steering system from joystick

Cab & Interior

- ● Pressurized sound-insulated and CabSus mounted cab
- ● Fully adjustable air suspension seat with heater
- ● Air conditioning with climate control
- ● Pull-up type front window sun roller blind and removable lower front window
- ● Sliding left window
- ● Intermittent upper and lower windshield parallel wiper
- ● Rain visor
- ● Rear window defroster switch
- ● Adjustable PPC wrist control levers for arm boom bucket and swing
- ● Joysticks & pedal provide proportional control of auxiliary hydraulic lines
- ● Adjustable tiltable steering column
- ● Pedal for auxiliary control 1 & 2 ways
- ● Jog shuttle switch
- ● DOOSAN Smart Touch – 8" touch screen, all-in-one
- ● 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.)
- ● Heating and cooling lunch box
- ● Flat spacious easy-to-clean floor
- ● Keyless start (Doosan Smart Key) & remote door lock/unlock
- ● 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
- ● Radio + MP3 (stereo) with Bluetooth streaming and handsfree call system
- ○ 360° all-around view camera (AVM)
- ○ 360° all-around view camera (AVM) + ultrasonic detection
- ○ Fully adjustable air suspension seat (heating & cooling)

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 and side 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
- ● Emergency engine stop switch and hydraulic pump control switch
- ● Guard rails (ISO 2867:2011)
- ● Parking brake
- ● Automatic digging brake
- ● LED 7 Work lights (2 boom lamps, 3 body lamps, 2 additional lamps on cab)
- ○ LED Work lights 4 additional lamps (2 in the front, 2 in the rear of the cab)
- ○ FOGS cab – top and front cab guards (ISO 10262)
- ○ Front window upper and lower guards

Other

- ● 5200 mm boom – 2600 mm arm – 3200 kg counterweight
- ● DoosanCONNECT (telematic system)
- ● Auto shut-off fuel filler pump
- ● Double element air cleaner and pre-filtered Turbo dust separator
- ● Fuel pre-filter with water separator sensor
- ● Dust screen for radiator/oil cooler
- ● Self-diagnostic function
- ● Hydrostatic drive with 2-speed power shift transmission
- ● Remote greasing for swing circle and work group pivot points
- ○ 2200 mm and 3100 arm for mono boom
- ○ 2300 arm for articulated boom
- ○ 5440 mm articulated boom
- ○ Doosan buckets: Full range of GP, HD & rock buckets
- ○ Doosan breakers and Doosan quick-couplers
- ○ Additional filter for breaker piping
- ○ Automatic lubrication system
- ○ Air compressor
- ○ Road homologation (depending on countries)

Undercarriage

- ● Front cradle
- ● Rear parallel dozer blade
- ● Double tires 10-20 16 PR
- ● Front axle oscillation lock modes (on/off/auto)
- ● Piston rod protection of stabilizer cylinders
- ● Lockable tool box (left side)
- ● Rear & front chain tightening eyes
- ○ 2 or 4 independent stabilizers with cylinder protection
- ○ Front parallel dozer blade and rear independent stabilizers
- ○ Lockable tool box (right side)
- ○ Wide axle 2750 mm

DOOSAN CONNECT

WORK EFFICIENCY MANAGEMENT

JOB SITE MANAGEMENT

PROACTIVE SERVICE

PREVENTIVE MAINTENANCE

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.

Powered by **Innovation**

DISCOVER MORE:
DX190W-7

DOOSAN

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Doosan Infracore Europe s.r.o., IBC - Pobřežní 620/3, 186 00 Praha 8-Karlín, Czech Republic

Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual Doosan equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of Doosan units may show other than standard equipment.