

# DOOSAN

Crawler Excavators |  
**DX420/490/530LC-5**



Maximum power: 345 / 380 / 380 hp  
Operating weight: 42.6 / 49.5 / 52.1 t  
Max. bucket capacity: 2.31 / 3.60 / 3.60 m<sup>3</sup>



# 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, 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 attachments



Genuine parts



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.

Ⓢ **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.

Ⓢ **Safety:** Rear camera and large side mirrors, powerful lighting, & anti-slip steps and platforms. Catwalk (except DX420LC-5). Guard rails on upper structure.

Ⓢ **Special applications:** Our long-reach machines - with a reach of 16 & 19.6 metres - are ideally suited for special applications.

Ⓢ **Productivity:** State-of-the-art bucket and arm digging forces.

Ⓢ **Undercarriage durability:** Forged steel and deep-hardened top rollers – oil-lubricated rollers – heat-treated sprocket – deep-hardened, heat-treated, grease lubricated & longer life track chains.



☉ **Comfort:** One of the most spacious cabs in the market, with low noise & vibration levels and excellent all-round visibility. Fully adjustable heated air suspension seat, air conditioning with climate control as standard.

☉ **Controllability:** Exclusive jog shuttle switch, 4 work & 4 power modes, proportional control, user-friendly 7" TFT LCD colour monitor.

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

☉ **Efficient fuel management:** This generation of Scania engines uses up to 10% less fuel. A new SPC (Smart Power Control) system, combined with settable engine shut-off, provides an additional reduction of up to 5%.

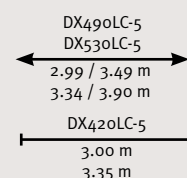
☉ **Easy maintenance:** Easy access to all compartments. Radiator and oil cooler separated for better cooling and easier access. Maintenance data directly available from control panel.

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



#### Undercarriage available:

- Variable chassis:
- Narrow retracted / extended
  - Wide retracted / extended
- Fixed chassis:
- Narrow
  - Standard





# Top performance and fuel efficiency



## ▣ The power to raise productivity

The DX420LC-5, DX490LC-5 & DX530LC-5 take even the heaviest tasks in their stride with efficient, dependable performance that saves you time and money:

- Improved hydraulic system uses the engine 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 DX420LC-5, DX490LC-5 & DX530LC-5 are equipped with Scania engines. Famous for excellent fuel efficiency, reliability and long service life, they combine exceptional power output and high torque at low revs. XPI (extra-high pressure injection) common-rail fuel injection (2400 bar) is combined with a Variable Geometry turbocharger for faster machine response, even at very low speed.

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.

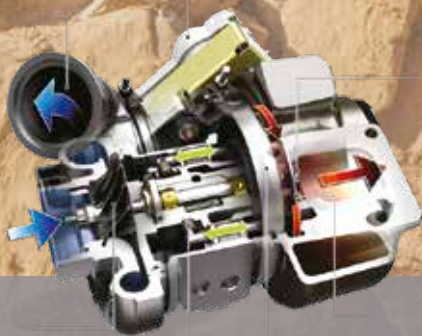


If the engine is the heart of the excavator, the e-EPOS is its brain - providing a perfectly synchronised communication link between the engine's ECU (Electronic Control Unit) and the hydraulic system. A CAN (Controller Area Network) system enables a constant flow of information between engine and hydraulic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

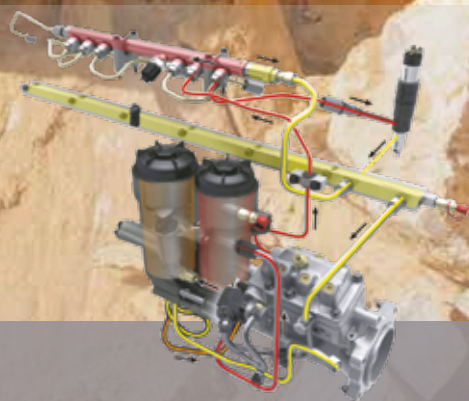
### EFFICIENT FUEL MANAGEMENT

- 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
- Separate radiator & hydraulic oil cooler assemblies: allows the hydraulically-driven oil cooler's fan speed to be controlled by the electronics in order to maintain the optimum oil temperature and reduce noise & fuel consumption





**Variable Geometry 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.



**XPI common-rail fuel injection:** Fuel delivery and injection pressure can be set independently of engine speed. This system adapts continually to changing speeds, so that you get the most from every drop of diesel.



# Operating in comfort

## ▣ The ideal workspace – designed around you

The DX420LC-5, DX490LC-5 & DX530LC-5 are 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 Crawler 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.

### Straight travel pedal

For straight machine movement - ensures comfort during hill or combination operation.

### Two-way proportional pedal

For maximum comfort when operating attachments - operator can easily set his preference in the control panel to operate with the rollers on joystick or with the pedal.

### 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.





1. Large sun roof
2. Sun visor
3. Storage compartment for sunglasses
4. Window grip
5. Hot/cool box
6. Upper front window is strut-assisted for easy, reliable adjustment and integrates a sun shade
7. Photo sensor detects radiant energy from the sun and adjusts temperature automatically

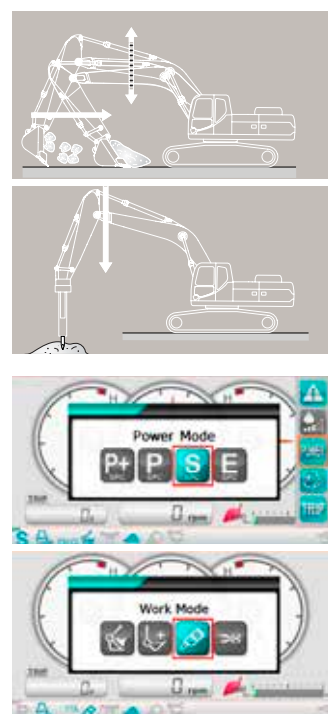
8. Improved visibility on the bottom right
9. Joysticks and switches are integrated in adjustable control consoles
10. Separate seat height adjustment lever and cushion tilting function
11. Straight ergonomic pedals
12. Flat, spacious, easy-to-clean floor
13. Pedal for auxiliary control 1 & 2 ways
14. Engine emergency stop switch

# Total control in all simplicity

## ▣ The highest standards of efficiency at your fingertips

The advanced & user-friendly technologies are just some of the many advantages of this 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. Filter oil 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
- 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 application:

- Hydraulic breaker setting: during boom down operation the boom moves down freely under its own weight, which reduces vibration, 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 allow proportional control of attachments
3. "Short stroke" joysticks enable easy, precise control of all operations
4. Exclusive jog shuttle switch
5. Automatic travel speed switch
6. Working lights switch
7. Climate control & HVAC
8. Remote control of radio
9. Wipers control
10. 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.



Rear view camera



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.



### Extra-strong X-chassis

Designed using Finite Element Analysis and 3D computer simulation, the X-shaped undercarriage ensures optimum structural integrity and durability.

### Undercarriage durability

- The chain is composed of sealed, self-lubricating links for long-term dependability. For improved protection, alignment and performance, there are 3 types of guard - normal, double or full-length - according to the model
- The track spring and idler are joined for long-lasting performance and easy maintenance
- Cast steel heavy-duty sprockets guarantee the highest resistance
- Track rollers lubricated for life

### 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.

### 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
- Cyclonic air pre-cleaner: air filter life & 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 & 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.





**Track guards:** to provide better protection, track alignment, and performance of machine while travelling. 3 guards per track as standard for DX490LC-5 & DX530LC-5 (full-length track guard optional) and, for DX420LC-5, 2 guards per track as standard (double and full-length track guards available as options). These various track guard options provide you with optimal solutions for your extreme applications.



# 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 Scania 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
- 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-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 network of Doosan dealers & Parts Distribution centres worldwide, 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 AdBlue® & any system malfunction

### Centralised greasing points

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



## 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.



# Technical specifications

## Engine

Designed to deliver superior performance and fuel efficiency, the Scania 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, Variable Geometry Turbocharged, Exhaust Gas Recirculation (EGR) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

	DX420LC-5	DX490LC-5	DX530LC-5
Model	Scania DC13	Scania DC13	Scania DC13
No. of cylinders	6	6	6
Rated power at 1800 rpm (SAE J1995)	257 kW (345 hp)	283 kW (380 hp)	283 kW (380 hp)
(SAE J1349)	252 kW (338 hp)	278 kW (373 hp)	278 kW (373 hp)
(ISO 9249)	257 kW (345 hp)	283 kW (380 hp)	283 kW (380 hp)
Max. torque at 1300 rpm	163.1 kgf.m (1600 Nm)	179.9 kgf.m (1765 Nm)	179.9 kgf.m (1765 Nm)
Idle (low - high)	750 [±20] - 1850 [±25] rpm	750 [±20] - 1900 [±25] rpm	750 [±20] - 1900 [±25] rpm
Piston displacement	12700 cm <sup>3</sup>	12700 cm <sup>3</sup>	12700 cm <sup>3</sup>
Bore × stroke	130 mm × 160 mm	130 mm × 160 mm	130 mm × 160 mm
Starter	24 V × 6 kW	24 V × 6 kW	24 V × 6 kW
Batteries - Alternator	2 × 12 V, 200 Ah - 28 V, 100 Ah		
Air filter	Double element air cleaner and pre-filtered Cyclone Turbo dust separator		

## Undercarriage

Extremely robust construction throughout - made of high-quality, durable materials, with all welded structures designed to limit stresses.

- Track rollers lubricated for life
- Idlers and sprockets fitted with floating seals
- Track shoes made of induction-hardened alloy with triple grouser
- Heat-treated connecting pins
- Hydraulic track adjuster with shock-absorbing tension mechanism

### ► Number of rollers and track shoes per side

	DX420LC-5	DX490LC-5	DX530LC-5
Upper rollers (standard shoe)	2	2	2
Lower rollers	9	9	9
Number of links & shoes per side	50	53	53
Link pitch	216 mm	216 mm	216 mm
Overall track length	5200 mm	5455 mm	5455 mm

## Weight

		DX420LC-5	DX490LC-5	DX530LC-5	DX420LC-5	DX490LC-5	DX530LC-5
	Shoe width (mm)	Operating weight (t)			Ground pressure (kPa)		
Triple grouser	600 (Std)	42.6	49.5	52.1	76.5	84.3	88.2
	750	43.4	50.5	53.1	61.8	68.6	71.6
	800	43.6	50.8	53.4	58.8	64.7	67.6
	850	44.1	51.3	53.9	52.9	57.8	60.8
Double grouser	600	42.7	49.6	52.1	76.5	84.3	88.2

## Component weights

Item	Unit	DX420LC-5	DX490LC-5	DX530LC-5	Remarks
Upper structure without front		10235		10930	Without counterweight
Lower structure assembly		14985*		19335**	(*) Standard track 600 mm shoe (**) Wide variable track 600 mm shoe
Front assembly		9340	10670	10635	Based on standard †
Boom	mm kg	6700 / 6700 HD 3200 / 3225	6300 / 7100 / 7100 HD / 9000* / 11000*	3540 / 3845 / 3905 / 4010 / 4500	Including bushing (*) only DX490LC-5 & DX530LC-5
Arm	mm kg	2600 / 2950 / 3250 / 3250 HD / 3950 1360 / 1485 / 1535 / 1595 / 1765	2400 / 2900 / 3350 / HD3350 / 6000* / 8000*	1565 / 1640 / 1760 / 1795 / 2040 / 2460	Including bushing (*) only DX490LC-5 & DX530LC-5

(†) DX420LC-5: standard front – 6700 mm boom, 3250 mm arm, 1.90 m<sup>3</sup> GP bucket. DX490LC-5: standard front – 7100 mm boom, 3350 mm arm, 2.14 m<sup>3</sup> GP bucket.  
DX530LC-5: standard front – 6300 mm boom, 2900 mm arm, 3.20 m<sup>3</sup> HD bucket.

## Hydraulic system

The e-EPOS (Electronic Power Optimising System) is the brain of the excavator - minimising fuel consumption and enabling the efficiency of the hydraulic system to be optimised 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

### ► Pumps & system pressure

	DX420LC-5	DX490LC-5	DX530LC-5
Main pumps, type:	2 × variable displacement tandem axial piston pumps		
Maximum flow at 1800 rpm	2 × 335 l/min	2 × 355 l/min	2 × 355 l/min
Pilot pump, type:	Gear pump		
Maximum flow at 1800 rpm	24.12 l/min	24.12 l/min	24.12 l/min
Relief valve settings:			
Implement	350 kg/cm <sup>2</sup>	350 kg/cm <sup>2</sup>	350 kg/cm <sup>2</sup>
Travel	350 kg/cm <sup>2</sup>	350 kg/cm <sup>2</sup>	350 kg/cm <sup>2</sup>
Swing	280 kg/cm <sup>2</sup>	300 kg/cm <sup>2</sup>	300 kg/cm <sup>2</sup>
Pilot	40.8 kg/cm <sup>2</sup>	40.8 kg/cm <sup>2</sup>	40.8 kg/cm <sup>2</sup>

## 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.

		DX420LC-5	DX490LC-5 & DX530LC-5
Cylinders	Quantity	Bore × rod diameter × stroke (mm)	
Boom	2	170 × 115 × 1485	170 × 115 × 1650
Arm	1	180 × 120 × 1820	190 × 130 × 1980
Bucket	1	160 × 110 × 1320	170 × 115 × 1341
Semi SLR Bucket	1	-	140 × 90 × 1150
SLR Bucket	1	-	120 × 80 × 1060



## ➤ 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

### ► Swing speed & torque

	DX420LC-5	DX490LC-5	DX530LC-5
Maximum swing speed	8.9 rpm	8.6 rpm	8.6 rpm
Maximum swing torque	16360 kgf/m	20130 kgf/m	20130 kgf/m

## ➤ Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers / foot pedals guarantee smooth travel with counter-rotation on demand.

The track frame protects the travel motor, brake and planetary gears. The multi-disc track brakes are spring-applied and hydraulic released.

### ► Speed & traction

	DX420LC-5	DX490LC-5	DX530LC-5
Travel speed (low - high)	3.1 - 5.1 km/h	3.1 - 5.4 km/h	3.1 - 5.4 km/h
Maximum traction	34.8 t	38.8 t	38.8 t
Maximum gradeability	35° / 70%	35° / 70%	35° / 70%

## ➤ Buckets

					DX420LC-5 Standard 3.35 m / narrow 3.00 m									DX490LC-5 & DX530LC-5 Wide 3.90 m / narrow 3.49 m				DX530LC-5 SLR	
Bucket type	Capacity (m³) SAE	Width (mm)		Weight (kg)	Boom 6.7 m - CW 8.0 t				Bucket Type	Capacity (m³) SAE	Width (mm)		Weight (kg)	Boom 7.10 m - CW 8.5 t*		Boom 6.30 m - CW 11.1 t		Boom 9.00 m	Boom 11.00 m
		With side cutters	W/O side cutters		Arm 2.6 m	Arm 2.95 m	Arm 3.25 m	Arm 3.95 m			With side cutters	W/O side cutters		Arm 2.90 m	Arm 3.35 m	Arm 2.40 m	Arm 2.90 m	Arm 6.00 m	Arm 8.00 m
GP	1.44	1273	1192	1465	A / A	A / A	A / A	A / A	GP	1.80	1474	1381	1840	A / A	A / A	A / A	A / A	-	-
	1.68	1429	1348	1565	A / A	A / A	A / A	A / C		2.14	1682	1588	2040	A / A	A / A	A / A	A / A	-	-
	1.90	1547	1466	1695	A / A	A / B	A / B	B / C		2.39	1837	1744	2150	A / B	A / B	A / A	A / A	-	-
	2.16	1745	1664	1810	A / C	B / C	B / C	C / D		2.86	2130	2037	2410	B / C	C / D	A / A	A / A	-	-
HD	1.55	1298	1224	1695	A / A	A / A	A / A	A / B	HD	1.73	1301	1224	1935	A / A	A / A	A / A	A / A	-	-
	1.80	1452	1374	1805	A / A	A / B	A / B	B / C		2.01	1451	1374	2055	A / A	A / A	A / A	A / A	-	-
	2.05	1602	1524	1960	A / B	B / C	B / C	C / D		2.29	1601	1524	2215	A / A	A / B	A / A	A / A	-	-
	2.31	1758	1680	2075	B / C	C / D	C / D	D / -		2.85	1901	1824	2490	B / C	C / D	A / A	A / A	-	-
	-	-	-	-	-	-	-	-		3.20	2101	2024	2690	C / D	C / D	A / A	A / A	-	-
	-	-	-	-	-	-	-	-		3.60	2306	2229	2850	D / -	D / -	A / B	A / B	-	-
Rock	1.51	-	1497	1655	A / A	A / A	A / A	A / B	Rock	1.71	-	1572	2075	A / A	A / A	A / A	A / A	-	-
									SLR	0.92	1236	1173	745	-	-	-	-	-	A
									Semi SLR	1.27	1445	1376	1160	-	-	-	-	A	-
									Semi DC**	1.12	-	1500	1040	-	-	-	-	A	-
										1.37	-	1800	1430	-	-	-	-	A	-

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

(\*) Counterweight for DX490LC-5 narrow is 9.2 t (\*\*) Ditch Cleaning. Shoe: 600 mm.

## ➤ Fluid capacities

	DX420LC-5	DX490LC-5	DX530LC-5
Fuel tank	640 l	685 l	685 l
Cooling system (radiator)	51 l	90 l	90 l
Urea (def) tank	70 l	70 l	70 l
Hydraulic oil tank	390 l	390 l	390 l
Engine oil	45 l	45 l	45 l
Swing drive	8.0 l	2 × 5 l	2 × 5 l
Travel device	2 × 7.0 l	2 × 10 l	2 × 10 l

## ➤ Cab

The air-conditioning and heating systems are integrated for optimal climate control. An automatically-controlled fan supplies the pressurised 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.

### ► Noise emission

	DX420LC-5	DX490LC-5	DX530LC-5
A-weighted emission sound pressure level at the operator's position, LpAd (ISO 6396:2008)		71 dB(A)	
A-weighted sound power level, LwAd (2000/14/EC)		Declared : 106 dB(A) Measured : 105 dB(A)	

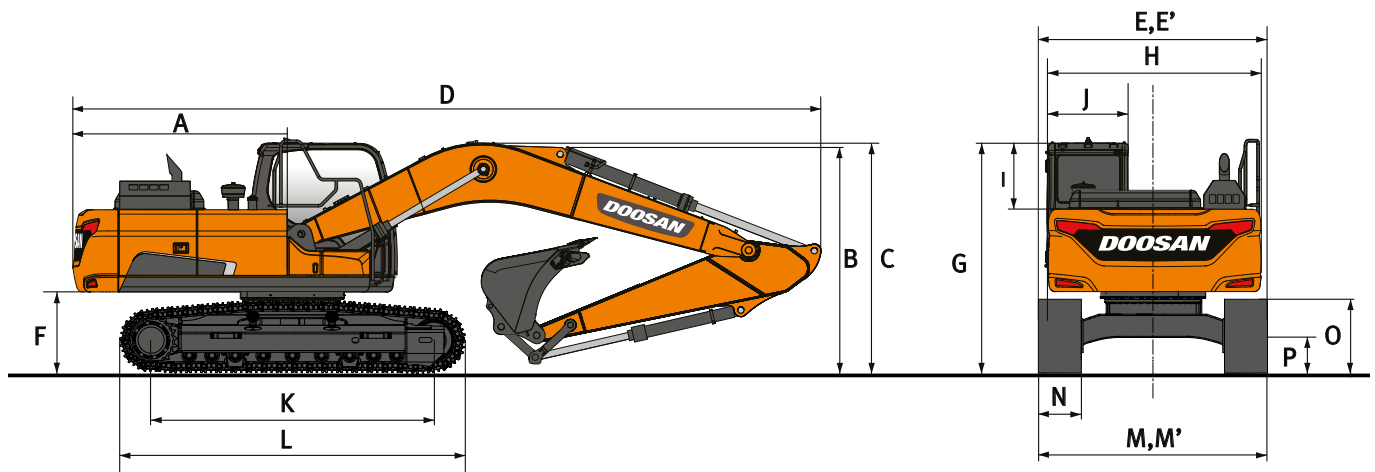
Note – Declared single-number noise emission values are the sum of measured values and the associated uncertainty, and they represent upper boundaries of the range of values which is likely to occur in measurements.

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.

# Dimensions



## Dimensions

	DX420LC-5					DX490LC-5 & DX530LC-5 (variable track)					DX530LC-5 SLR	
Boom length - mm	6700				6700 HD	6300		7100		7100 HD	9000	11000
Arm length - mm	2600	2950	3250	3950	3250 HD	2400	2900	2900	3350	3350 HD	6000	8000
Bucket capacity - m <sup>3</sup>	2.16	1.90	1.90	1.44	1.51 Rock	3.20 HD	2.85 HD	2.39	2.14	1.71 Rock	1.27	0.92
A Tail swing radius - mm	3760	3760	3760	3760	3760	3800	3800	3800	3800	3800	3800	3800
B Shipping height (boom) - mm	3585	3570	3350	3390	3350	4010	4125	3800	3580	3580	3765	3935
C Shipping height (hose) - mm	3680	3660	3455	3495	3455	4060	4165	3895	3705	3705	3910	4070
D Shipping length - mm	11860	11835	11750	11760	11750	11720	11530	12330	12230	12230	14155	16195
E Shipping width std. (wide*) - mm	3350	3350	3350	3350	3350	3340	3340	3340	3340	3340	3340	3340
E' Shipping width narrow - mm	3000	3000	3000	3000	3000	2990	2990	2990	2990	2990	2990	2990
F Counterweight clearance - mm	1265	1265	1265	1265	1265	1460	1460	1460	1460	1460	1460	1460
G Height over cab - mm	3154	3154	3154	3154	3154	3350	3350	3350	3350	3350	3350	3350
H House width - mm	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990	2990
H' House width (catwalk) - mm	-	-	-	-	-	3296	3296	3296	3296	3296	3296	3296
I Cab height above house - mm	845	845	845	845	845	845	845	845	845	845	845	845
J Cab width - mm	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010
K Tumbler distance - mm	4230	4230	4230	4230	4230	4470	4470	4470	4475	4470	4470	4470
L Track length - mm	5200	5200	5200	5200	5200	5455	5455	5455	5455	5455	5455	5455
M Undercarriage width std. (wide*) - mm	3350	3350	3350	3350	3350	3340 / 3900**	3340 / 3900**	3340 / 3900**	3340 / 3900**	3340 / 3900**	3340 / 3900**	3340 / 3900**
M' Undercarriage width narrow - mm	3000	3000	3000	3000	3000	2990 / 3490**	2990 / 3490**	2990 / 3490**	2990 / 3490**	2990 / 3490**	2990 / 3490**	2990 / 3490**
N Shoe width std. - mm	600	600	600	600	600	600	600	600	600	600	600	600
O Track height - mm	1050	1050	1050	1050	1050	1210	1210	1210	1210	1210	1210	1210
P Ground clearance - mm	540	540	540	540	540	770	770	770	770	770	770	770

(\*): DX490LC-5 & DX530LC-5 "E" and "M" refer to wide variable track

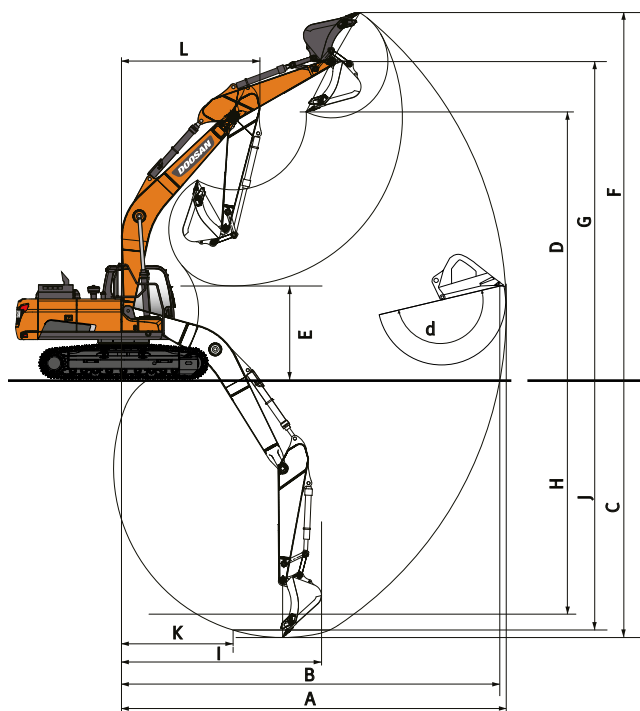
(\*\*): retracted / extended

## Digging forces (ISO)

	DX420LC-5					DX490LC-5 & DX530LC-5 (variable track)					DX530LC-5 SLR	
Boom length - mm	6700				6700 HD	6300		7100		7100 HD	9000	11000
Arm length - mm	2600	2950	3250	3950	3250 HD	2400	2900	2900	3350	3350 HD	6000	8000
Bucket capacity - m <sup>3</sup>	2.16	1.90	1.90	1.44	1.51 Rock	3.60	3.20	2.39	2.14	1.71 Rock	1.27	0.93
BUCKET (Normal/Press. Up) - kN	251.0 / 265.8	251.0 / 265.8	251.0 / 265.8	251.0 / 265.8	251.0 / 265.8	284.4 / 302.0	284.4 / 302.0	284.4 / 302.0	284.4 / 302.0	284.4 / 302.0	188.3 / 199.1	140.2 / 149.0
ARM (Normal/Press. Up) - kN	225.5 / 239.3	203.0 / 214.8	182.4 / 193.2	156.9 / 165.7	182.4 / 193.2	277.5 / 294.2	239.3 / 253.0	239.3 / 253.0	209.8 / 222.6	209.8 / 222.6	135.3 / 148.1	106.9 / 116.7



# Working range



## Working range

	DX420LC-5					DX490LC-5 & DX530LC-5 (variable track)					DX530LC-5 SLR	
Boom length - mm	6700					6300		7100		7100 HD	9000	11000
Arm length - mm	2600	2950	3250	3950	3250 HD	2400	2900	2900	3350	3350 HD	6000	8000
Bucket capacity - m³	2.16	1.90	1.90	1.44	1.51 Rock	3.20 HD	2.85 HD	2.39	2.14	1.71 Rock	1.27	0.92
A Max. digging reach - mm	10880	11200	11495	12180	11495	10305	10735	11720	12125	12125	16060	19615
B Max. digging reach (ground) - mm	10660	10980	11290	11980	11290	10000	10445	11455	11865	11865	15870	19455
C Max. digging depth - mm	7080	7435	7740	8435	7740	6260	6755	7340	7790	7790	11795	15125
D Max. loading height - mm	7385	7535	7710	8100	7710	6650	6750	7725	7865	7865	9800	11890
E Min. loading height - mm	3660	3300	2995	2300	2995	3505	2980	3580	3130	3130	2076	1465
F Max. digging height - mm	10820	10625	10820	11240	10820	9495	9630	10920	11050	11050	12755	14435
G Max. bucket pin height - mm	9115	9260	9440	9830	9440	8455	8555	9550	9690	9690	11415	13355
H Max. vertical wall depth - mm	3630	3980	4320	5110	4320	590	1155	4045	4370	4370	10300	12805
I Max. radius vertical - mm	9170	9315	9440	9700	9440	9845	10095	9710	9970	9970	9515	12165
J Max. digging depth (8° level) - mm	6870	7240	7555	8290	7555	6020	6535	7165	7635	7635	11670	15010
K Min. radius 8° line - mm	3395	3400	3420	3475	3420	3195	3175	3885	3895	3895	4885	6165
L Min. digging reach - mm	2365	1760	785	-225	785	2015	1160	2010	840	840	-109	40
M Min. swing radius - mm	4495	4505	4475	4555	4475	4740	4715	5235	5210	5210	6525	7825
d Bucket angle - °	183.7	183	183	183.9	183	184.5	186.2	181.2	189.1	189.1	175.2	177.6

## 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.

# Lifting capacities

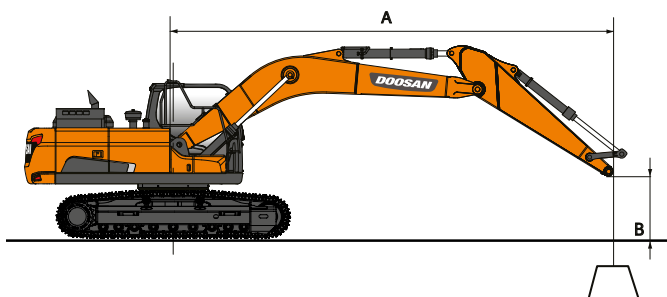
## DX420LC-5

Standard track width: 3350 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B															A
1-piece boom 6.7 m Arm 3.25 m Shoe 600 mm Counterweight 8.0 t	9.0 m													9.40 *	9.40 *	6.92
	7.5 m									9.72 *	9.6			8.76 *	8.27	8.15
	6.0 m									10.08 *	9.43			8.56 *	6.95	8.97
	4.5 m					16.22 *	16.22 *	12.70 *	12.70 *	10.94 *	9.09	9.99 *	6.8	8.65 *	6.22	9.48
	3.0 m					20.47 *	18.25	14.72 *	12.03	12.00 *	8.7	10.14	6.6	8.96	5.83	9.73
	1.5 m					18.92 *	17.13	16.39 *	11.4	12.95 *	8.34	9.93	6.41	8.81	5.7	9.74
	0.0 m					20.73 *	16.73	17.26 *	11.01	12.78	8.08	9.78	6.28	9.03	5.82	9.52
	-1.5 m			14.64 *	14.64 *	22.98 *	16.69	17.22 *	10.87	12.66	7.97	9.76	6.26	9.71	6.23	9.03
	-3.0 m	18.01 *	18.01 *	23.12 *	23.12 *	21.15 *	16.87	16.19 *	10.93	12.62 *	8.03			10.95 *	7.12	8.24
	-4.5 m			23.47 *	23.47 *	17.87 *	17.28	13.70 *	11.21					10.90 *	9.02	7.06
	-6.0 m													10.50 *	10.50 *	4.93
1-piece boom 6.7 m Arm 2.6 m Shoe 600 mm Counterweight 8.0 t	9.0 m							11.48 *	11.48 *					11.47 *	11.47 *	6.01
	7.5 m													10.88 *	9.55	7.41
	6.0 m							12.06 *	12.06 *	10.95 *	9.26			10.72 *	7.81	8.30
	4.5 m					18.25 *	18.25 *	13.77 *	12.54	11.68 *	8.96			10.53	6.9	8.85
	3.0 m							15.64 *	11.83	12.61 *	8.61	10.08	6.56	9.89	6.43	9.11
	1.5 m							17.00 *	11.29	13.02	8.3	9.93	6.42	9.73	6.29	9.13
	0.0 m					18.22 *	16.82	17.47 *	11.02	12.8	8.11			10.03	6.46	8.88
	-1.5 m					22.13 *	16.91	17.01 *	10.97	12.76	8.07			10.94	7.02	8.36
	-3.0 m			24.84 *	24.84 *	19.79 *	17.17	15.45 *	11.12	11.71 *	8.24			11.68 *	8.23	7.51
	-4.5 m			19.46 *	19.46 *	15.70 *	15.70 *	11.79 *	11.56					11.24 *	11.13	6.17

Narrow track width: 3000 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B															A
1-piece boom 6.7 m Arm 3.25 m Shoe 600 mm Counterweight 8.0 t	9.0 m													9.40 *	9.40 *	6.92
	7.5 m									9.72 *	9.57			8.76 *	8.25	8.15
	6.0 m									10.08 *	9.4			8.56 *	6.92	8.97
	4.5 m					16.22 *	16.22 *	12.70 *	12.70 *	10.94 *	9.06	9.99 *	6.77	8.65 *	6.19	9.48
	3.0 m					20.47 *	18.19	14.72 *	11.99	12.00 *	8.67	10.1	6.58	8.93	5.81	9.73
	1.5 m					18.92 *	17.07	16.39 *	11.36	12.95 *	8.31	9.89	6.39	8.78	5.68	9.74
	0.0 m					20.73 *	16.67	17.26 *	10.97	12.74	8.06	9.75	6.26	9	5.79	9.52
	-1.5 m			14.64 *	14.64 *	22.98 *	16.63	17.22 *	10.83	12.61	7.94	9.72	6.23	9.67	6.2	9.03
	-3.0 m	18.01 *	18.01 *	23.12 *	23.12 *	21.15 *	16.81	16.19 *	10.89	12.62 *	8			10.95 *	7.09	8.24
	-4.5 m			23.47 *	23.47 *	17.87 *	17.23	13.70 *	11.18					10.90 *	8.99	7.06
	-6.0 m													10.50 *	10.50 *	4.93



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

- Lifting capacities are in compliance with ISO 10567:2007(E).
- The load point is at the end of the arm.
- \* = The nominal loads are based on hydraulic capacity.
- The nominal loads shown do not exceed 75% of tipping loads or 87% of hydraulic lifting capacity.
- For lifting capacity with bucket, simply subtract the actual weight of the bucket from the values.
- The configurations indicated do not necessarily reflect the standard equipment of the machine.



# Lifting capacities

## DX490LC-5

Wide variable track width: 3900 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
1-piece boom 7.1 m Arm 3.35 m Shoe 600 mm Counterweight 8.5 t	9.0 m									10.90 *	10.90 *			8.50 *	8.50 *	7.92
	7.5 m									10.90 *	10.90 *			8.07 *	8.07 *	8.96
	6.0 m									11.64 *	11.64 *	10.82 *	9.14	7.95 *	7.95 *	9.66
	4.5 m					20.53 *	20.53 *	15.31 *	15.31 *	12.77 *	11.87	11.34 *	8.91	8.06 *	7.35	10.09
	3.0 m					21.54 *	21.54 *	17.56 *	15.79	14.00 *	11.35	11.88	8.63	8.39 *	6.99	10.28
	1.5 m					16.99 *	16.99 *	19.20 *	15.04	15.03 *	10.91	11.61	8.38	8.97 *	6.91	10.25
	0.0 m					21.35 *	21.35 *	19.90 *	14.64	14.98	10.61	11.43	8.2	9.83	7.09	9.99
	-1.5 m			17.20 *	17.20 *	25.85 *	23.06	19.63 *	14.52	14.85	10.5	11.38	8.16	10.59	7.62	9.49
	-3.0 m			26.36 *	26.36 *	23.63 *	23.33	18.35 *	14.62	14.47 *	10.57			11.69 *	8.69	8.69
	-4.5 m			25.43 *	25.43 *	19.91 *	19.91 *	15.59 *	14.97	11.53 *	10.93			11.47 *	10.91	7.51
1-piece boom 6.3 m Arm 2.4 m Shoe 600 mm Counterweight 9.2 t	7.5 m													13.96 *	13.96 *	6.84
	6.0 m							15.08 *	15.08 *	13.80 *	12.77			13.73 *	12.1	7.74
	4.5 m							16.94 *	16.94 *	14.47 *	12.47			13.79 *	10.68	8.28
	3.0 m							18.95 *	16.8	15.41 *	12.09			13.63	10.02	8.51
	1.5 m							20.33 *	16.22	16.13 *	11.78			13.54	9.92	8.47
	0.0 m					27.55 *	25.03	20.62 *	15.94	16.05	11.61			14.23	10.37	8.15
	-1.5 m					25.59 *	25.18	19.64 *	15.94	15.06 *	11.66			14.99 *	11.63	7.52
	-3.0 m			27.48 *	27.48 *	21.84 *	21.84 *	16.67 *	16.25					14.93 *	14.6	6.48

Narrow variable track width: 3490 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
1-piece boom 7.1 m Arm 3.35 m Shoe 600 mm Counterweight 9.2 t	9.0 m									10.90 *	10.90 *			8.50 *	8.50 *	7.92
	7.5 m									10.90 *	10.90 *			8.07 *	8.07 *	8.96
	6.0 m									11.64 *	11.13	10.82 *	8.25	7.95 *	7.27	9.66
	4.5 m					20.53 *	20.53 *	15.31 *	14.93	12.77 *	10.66	11.34 *	8.02	8.06 *	6.62	10.09
	3.0 m					21.54 *	21.04	17.56 *	13.98	14.00 *	10.16	11.99 *	7.75	8.39 *	6.29	10.28
	1.5 m					16.99 *	16.99 *	19.20 *	13.27	15.03 *	9.73	12.11	7.51	8.97 *	6.2	10.25
	0.0 m					21.35 *	19.76	19.90 *	12.89	15.58 *	9.45	11.93	7.34	9.91 *	6.36	9.99
	-1.5 m			17.20 *	17.20 *	25.85 *	19.8	19.63 *	12.77	15.48 *	9.33	11.88	7.3	11.05	6.82	9.49
	-3.0 m			26.36 *	26.36 *	23.63 *	20.06	18.35 *	12.87	14.47 *	9.4			11.69 *	7.78	8.69
	-4.5 m			25.43 *	25.43 *	19.91 *	19.91 *	15.59 *	13.2	11.53 *	9.75			11.47 *	9.73	7.51

## DX530LC-5

Wide variable track width: 3900 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		8.5 m		Max. reach		
	B	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
1-piece boom 6.3 m Arm 2.90 m Shoe 600 mm Counterweight 11.1 t	8.5 m													12.98 *	12.98 *	6.55
	7.5 m													12.51 *	12.51 *	7.36
	6.0 m													12.35 *	12.24	8.20
	4.5 m					20.64 *	20.64 *	16.06 *	16.06 *	13.82 *	13.82 *	12.99 *	11.39	12.66 *	10.96	8.71
	3.0 m							18.27 *	18.27 *	14.93 *	13.44	13.58 *	11.16	13.15 *	10.36	8.93
	1.5 m							19.95 *	18.06	15.85 *	13.08	14.08 *	10.94	13.50 *	10.26	8.89
	0.0 m					28.03 *	27.73	20.64 *	17.69	16.23 *	12.85	14.11 *	10.81	13.92 *	10.66	8.59
	-1.5 m			25.45 *	25.45 *	26.64 *	26.64 *	20.11 *	17.6	15.66 *	12.81			14.34 *	11.77	7.99
	-3.0 m			31.20 *	31.20 *	23.55 *	23.55 *	17.96 *	17.78					14.59 *	14.22	7.03
	-4.5 m					17.52 *	17.52 *							13.99 *	13.99 *	5.49

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		Max. reach		
	B	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
1-piece boom 7.1 m Arm 2.90 m Shoe 600 mm Counterweight 11.1 t	9.0 m													11.63 *	11.63 *	7.38
	7.5 m													10.97 *	10.97 *	8.50
	6.0 m							13.99 *	13.99 *	12.27 *	12.27 *	11.42 *	10.43	10.78 *	9.98	9.23
	4.5 m							16.15 *	16.15 *	13.34 *	13.34 *	11.82 *	10.25	10.93 *	9.11	9.68
	3.0 m							18.28 *	18	14.49 *	13.04	12.37 *	10	11.38 *	8.69	9.88
	1.5 m							19.67 *	17.36	15.38 *	12.65	12.82 *	9.78	11.6	8.61	9.85
	0.0 m					18.94 *	18.94 *	20.06 *	17.06	15.76 *	12.41	12.91 *	9.66	11.95 *	8.88	9.58
	-1.5 m					25.13 *	25.13 *	19.48 *	17.01	15.42 *	12.35	12.24 *	9.67	12.12 *	9.61	9.05
	-3.0 m			28.04 *	28.04 *	22.58 *	22.58 *	17.83 *	17.18	13.99 *	12.48			12.13 *	11.1	8.21
	-4.5 m			22.36 *	22.36 *	18.32 *	18.32 *	14.41 *	14.41 *					11.60 *	11.60 *	6.95

Narrow track width: 3490 mm • W/O Bucket












Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		8.5 m		Max. reach		
	B	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	⏏	A
1-piece boom 6.3 m Arm 2.90 m Shoe 600 mm Counterweight 11.1 t	7.5 m													12.51 *	12.51 *	7.36
	6.0 m													12.35 *	12.14	8.20
	4.5 m					20.64 *	20.64 *	16.06 *	16.06 *	13.82 *	13.73			12.66 *	10.87	8.71
	3.0 m							18.27 *	18.27 *	14.93 *	13.33			13.15 *	10.27	8.93
	1.5 m							19.95 *	17.91	15.85 *	12.97			13.50 *	10.17	8.89
	0.0 m					28.03 *	27.49	20.64 *	17.54	16.23 *	12.74			13.92 *	10.57	8.59
	-1.5 m			25.45 *	25.45 *	26.64 *	26.64 *	20.11 *	17.45	15.66 *	12.7			14.34 *	11.66	7.99
	-3.0 m			31.20 *	31.20 *	23.55 *	23.55 *	17.96 *	17.63					14.59 *	14.1	7.03
	-4.5 m					17.52 *	17.52 *							13.99 *	13.99 *	5.49

# Lifting capacities



## DX530LC-5 SLR

Wide variable track width: 4200 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m	10.5 m		13.5 m		16.5 m		Max. reach					
	B																					A		
1-piece boom 11.0 m Arm 8.0 m Shoe 900 mm Counterweight 11.1 t	12.0 m																				2.74 *	2.74 *	15.41	
	10.5 m																					2.68 *	2.68 *	16.25
	9.0 m																		3.41 *	3.41 *	2.67 *	2.67 *	16.92	
	7.5 m																		4.20 *	4.11	2.68 *	2.68 *	17.43	
	6.0 m																4.69 *	4.69 *	4.33 *	4.02	2.72 *	2.72 *	17.79	
	4.5 m																5.01 *	5.01 *	4.49 *	3.9	2.79 *	2.79 *	18.03	
	3.0 m																5.36 *	5.36 *	4.67 *	3.77	2.90 *	2.90 *	18.13	
	1.5 m																5.70 *	5.12	4.85 *	3.64	3.03 *	3.03 *	18.11	
	0.0 m																6.02 *	4.89	5.02 *	3.53	3.21 *	3.03	17.97	
	-1.5 m	6.15 *	6.15 *	6.81 *	6.81 *	9.10 *	9.10 *	13.76 *	13.76 *	12.36 *	10.52	9.92 *	8.26	8.29 *	6.71	6.30 *	4.7	4.93	3.43	3.45 *	3.06		17.70	
	-3.0 m	7.57 *	7.57 *	8.36 *	8.36 *	10.44 *	10.44 *	14.49 *	13.95	12.80 *	10.19	10.34 *	7.96	8.64 *	6.47	6.49	4.55	4.86	3.37	3.75 *	3.14	17.29		
	-4.5 m	9.05 *	9.05 *	9.99 *	9.99 *	12.04 *	12.04 *	15.90 *	13.85	12.97 *	10.02	10.55 *	7.79	8.84 *	6.31	6.39	4.45	4.84	3.34	4.16 *	3.28	16.73		
	-6.0 m	10.61 *	10.61 *	11.72 *	11.72 *	13.90 *	13.90 *	16.26 *	13.91	12.89 *	9.99	10.57 *	7.73	8.89 *	6.25	6.36	4.42			4.72 *	3.51	16.02		
	-7.5 m	12.28 *	12.28 *	13.63 *	13.63 *	16.05 *	16.05 *	15.65 *	14.09	12.54 *	10.07	10.36 *	7.76	8.74 *	6.26	6.39	4.45			5.49 *	3.85	15.11		
	-9.0 m	14.11 *	14.11 *	15.76 *	15.76 *	18.60 *	18.60 *	14.69 *	14.4	11.89 *	10.26	9.88 *	7.89	8.35 *	6.36	6.03 *	4.57			5.67 *	4.37	14.00		
	-10.5 m	16.14 *	16.14 *	18.22 *	18.22 *	16.86 *	16.86 *	13.27 *	13.27 *	10.85 *	10.57	9.05 *	8.13	7.61 *	6.57					5.84 *	5.21	12.60		
	-12.0 m																					5.93 *	5.93 *	0.82
	-13.5 m																					5.75 *	5.75 *	8.39

## DX530LC-5 Semi SLR

Wide variable track width: 4200 mm • W/O Bucket

Unit: 1000 kg	A	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		10.5 m		12.0 m		13.5 m		Max. reach				
	B	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	B	C <sub>30</sub>	A		
1-piece boom 9.0 m Arm 6.0 m Shoe 900 mm Counterweight 11.1 t	10.5 m																					4.83 *	4.83 *	11.98
	9.0 m																6.16 *	6.16 *				4.71 *	4.71 *	12.87
	7.5 m																6.30 *	6.30 *	4.78 *	4.78 *		4.68 *	4.68 *	13.53
	6.0 m														6.91 *	6.91 *	6.60 *	6.60 *	6.23 *	5.84	4.72 *	4.72 *	14.00	
	4.5 m											8.29 *	8.29 *	7.52 *	7.52 *	7.00 *	6.98	6.66 *	5.73	4.84 *	4.84 *	14.30		
	3.0 m					18.21 *	18.21 *	13.99 *	13.99 *	11.01 *	11.01 *	9.29 *	9.29 *	8.19 *	8.19 *	7.44 *	6.76	6.93 *	5.59	5.02 *	4.99	14.44		
	1.5 m					11.44 *	11.44 *	16.18 *	16.18 *	12.43 *	12.43 *	10.24 *	9.93	8.84 *	7.97	7.89 *	6.54	7.21 *	5.45	5.29 *	4.91	14.41		
	0.0 m				6.33 *	6.33 *	11.53 *	11.53 *	17.67 *	16.67	13.54 *	12.23	11.04 *	9.53	9.41 *	7.69	8.28 *	6.35	7.29	5.34	5.67 *	4.93	14.23	
	-1.5 m	7.63 *	7.63 *	9.08 *	9.08 *	13.40 *	13.40 *	18.45 *	16.22	14.27 *	11.85	11.61 *	9.24	9.83 *	7.48	8.51	6.21	7.21	5.26	6.19 *	5.06	13.88		
	-3.0 m	10.30 *	10.30 *	11.97 *	11.97 *	16.17 *	16.17 *	18.63 *	16.04	14.59 *	11.65	11.91 *	9.07	10.04 *	7.36	8.43	6.14					6.93 *	5.32	13.35
	-4.5 m	13.10 *	13.10 *	15.16 *	15.16 *	19.74 *	19.74 *	18.27 *	16.06	14.49 *	11.6	11.88 *	9.02	9.99 *	7.32	8.43	6.14					7.88 *	5.76	12.63
	-6.0 m	16.22 *	16.22 *	18.88 *	18.88 *	22.59 *	22.59 *	17.36 *	16.22	13.91 *	11.69	11.44 *	9.07	9.52 *	7.39							8.17 *	6.48	11.66
	-7.5 m	19.87 *	19.87 *	23.47 *	23.47 *	20.17 *	20.17 *	15.75 *	15.75 *	12.71 *	11.92	10.37 *	9.27									8.43 *	7.73	10.38
	-9.0 m					22.00 *	22.00 *	16.52 *	13.08 *	13.08 *	10.45 *	10.45 *										8.55 *	8.55 *	8.66



# Standard and optional equipment

## Engine

	DX420LC-5	DX490LC-5	DX530LC-5
Scania, Stage IV compliant, SCR, EGR, DOC, water-cooled diesel engine with Variable Turbo Charger and air-to-air intercooler	●	●	●
Auto-idle function	●	●	●
Auto shut-off	●	●	●
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	●	●	●
Travel pedals and hand levers	●	●	●
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	○	○	○

## 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)	○	○	○
Front window upper and lower guards	○	○	○
Side-view camera	○	○	○

## Other

Boom: 6.70 m – arm: 3.25 m – Counterweight: 8000 kg	●		
Boom: 7.10 m – arm: 3.35 m – Counterweight: 8500 kg		●	
Boom: 6.30 m – arm: 2.90 m – Counterweight: 11100 kg			●

	DX420LC-5	DX490LC-5	DX530LC-5
"Doosan Connect" Telematic system	●	●	●
Auto shut-off fuel filler pump	●	●	●
Double element air cleaner and pre-filtered Cyclone Turbo dust separator	●	●	●
Fuel pre-filter with water separator sensor	●	●	●
Dust screen for radiator/oil cooler	●	●	●
Hydraulically-driven oil cooler fan	●	●	●
Self-diagnostic function	●	●	●
Alternator (28 V, 100 A) - Battery (2 × 12 V, 200 Ah)	●	●	●
Hydrostatic 2-speed travel system with automatic shift	●	●	●
Remote greasing for swing circle and work group pivot points	●	●	●
Guards for work lights	●	●	●
Arms: 2.60 m, 2.95 m, 3.95 m or 3.25 HD - boom: 6.70 m HD	○		
Arms: 2.40 m, 2.90 m, 3.98 m or 3.35 HD - booms: 6.30 or 7.10 m HD		○	
Arms: 2.40 m, 3.35, 3.35 HD, 3.98 m, 6.00 m Semi SLR or 9.00 m SLR			○
booms: 7.10 m, 7.10 m HD, 9.00 m Semi SLR or 11.00 m SLR			
Counterweight: 9200 kg (boom 6.30 m)		○	
Heavy-duty bottom cover	○	○	○
Doosan buckets: full range of GP, HD & Rock buckets	○	○	○
Doosan breakers and Doosan quick-couplers	○	○	○
Hydraulic piping for crusher, quick-coupler, clamshell, tilting and rotating buckets	○	○	○
Additional filter for breaker piping	○	○	○
Floating boom	○	○	○
Double pump flow	○	○	○
Diesel heater	○	○	○
Oil-washed air cleaner	○	○	○
Straight travel pedal	○	○	○
Bio oil	○	○	○
Automatic lubrication system	○	○	○
Alarm for travel & swing	○	○	○
Additional guard rails (ISO 2867:2011)	○	○	○

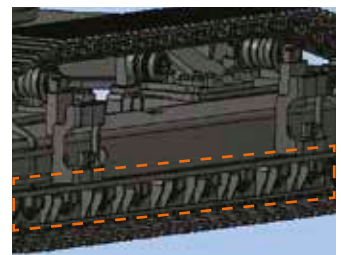
## Undercarriage

Hydraulic track adjuster	●	●	●
Normal track guards	●	●	●
Double track guards	○		
Full-length track guards	○	○	○
Greased and sealed track links	●	●	●
600 mm triple grouser shoe	●	●	●
600 mm double grouser shoe	○	○	○
750, 800, 900 mm triple grouser shoe	○	○	○

Standard: ●  
Optional: ○



Straight travel pedal



Full-length track guard



Super Long Reach (SLR)



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.



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