

**DOOSAN**

Crawler Excavators

# DX380LC-7

|                   |                     |
|-------------------|---------------------|
| Maximum power     | 326 hp              |
| Operating weight  | 40.2 t              |
| Bucket capacity   | 1.83 m <sup>3</sup> |
| Emission standard | Stage V             |



DOOSAN DX380LC-7 CRAWLER EXCAVATOR:

# MEET THE NEW GENERATION OF DOOSAN MACHINES

Lift your business to the next level with the DX380LC-7 Doosan excavator.

Exceptionally powerful, yet environmentally friendly, the DX380LC-7 excavator features extraordinary fuel efficiency.





# RAISE PROFITS, PRODUCTIVITY & FUEL EFFICIENCY

## HIGH PRODUCTIVITY AND LOW COST OF OWNERSHIP

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

## 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.

## SAFETY

360° camera system, large side mirrors, powerful halogen or LED worklights, anti-slip steps and platforms. Guard rails on upper structure, ultrasonic obstruction indicator (option), travel alarm: your safety is our priority.

## PRODUCTIVITY

State-of-the-art bucket and arm digging forces.

## PLUG & PLAY

Machine Guidance options available with major brands' ready kits (Trimble, Leica, Novatron/Moba Xsite, etc.) and can differ by model and region.

## 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.

### **OPERATE AT EASE**

All important information is at your fingertips with the new easy-to-use 8" touch screen.

### **ENGINE**

Exceptionally powerful – with high torque at low revs – the new Scania engine combines reliability and low environmental impact. This Stage V compliant 5 cylinder engine delivers 240 kW at 1800 rpm.

### **EXCELLENT FUEL EFFICIENCY**

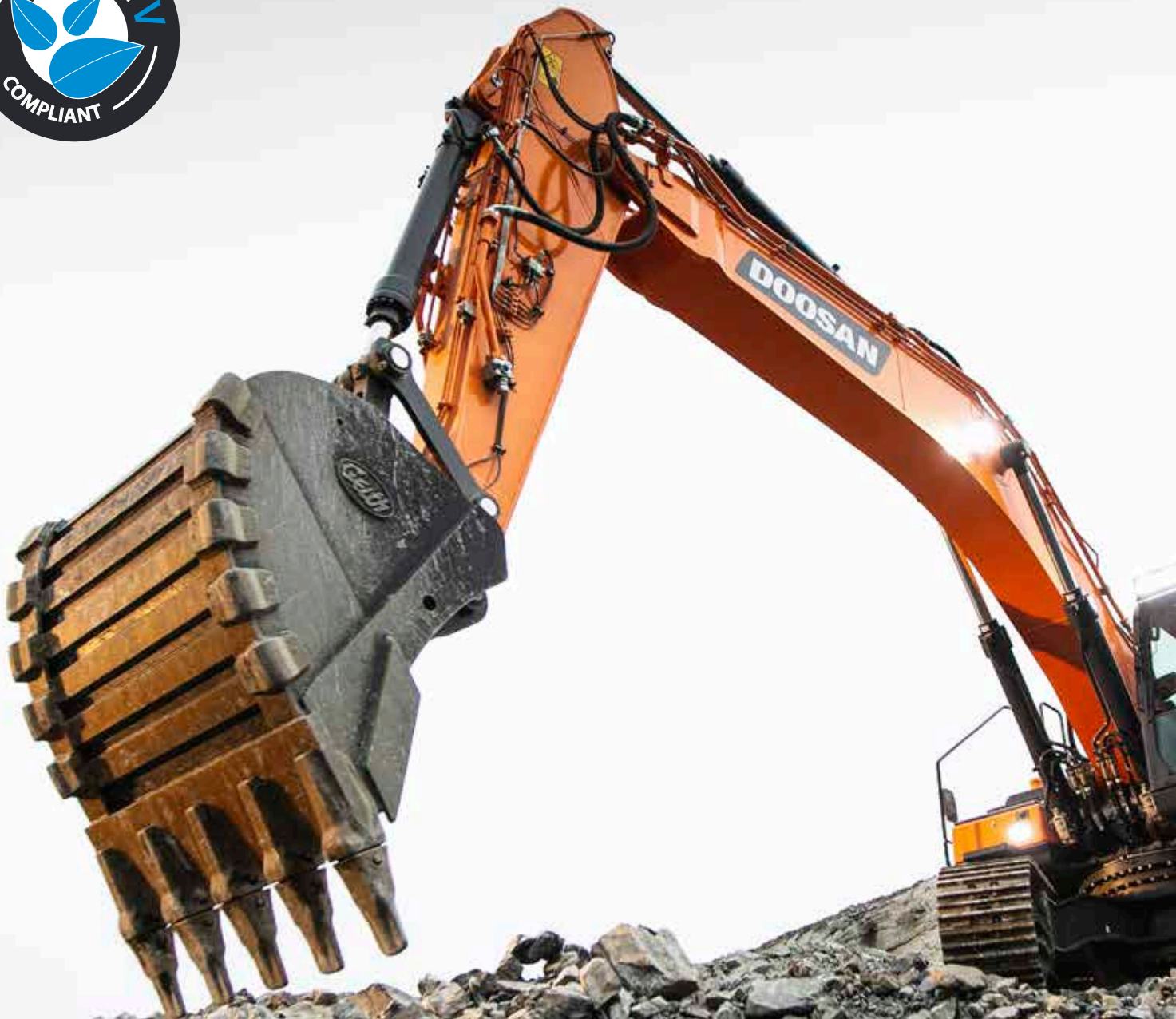
To save fuel, the Smart Power Control (SPC) system optimizes the balance between the pump output and the diesel engine.

### **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.



## D·ECOPOWER

**Real breakthrough technology that will sets new standards in the industry:** The exclusive ECO power system improves productivity and saves fuel. A pressure-controlled pump, closed-center main control valve and 9 sensors electronically detect and control the precise amount of hydraulic oil required to perform a task and precisely meter the amount of oil required rather than continuously forcing a fixed amount

of oil through the system, thereby improving efficiency. The hydraulic system output requirements are optimized with engine horsepower. The resulting efficiency sharply improves productivity and reduces fuel consumption. Improved feedback through the controls results in an outstanding level of operator comfort and much smoother machine control.

# TOP PERFORMANCE AND FUEL EFFICIENCY

## THE POWER TO RAISE PRODUCTIVITY

- The DX380LC-7 is equipped with the latest generation Scania DC09 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

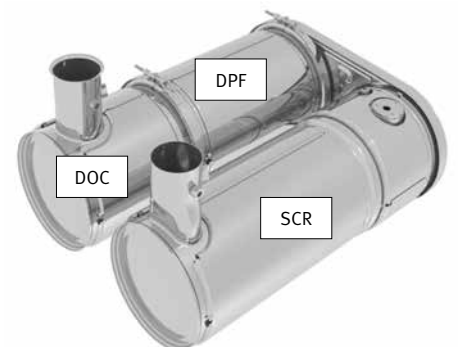
- Choice of 4 power modes (Eco - Standard - Power - Power Plus) and automatic Smart Power Control system for optimal power and reduced fuel consumption in all conditions
- Smart Power Control (SPC) system: reduces engine speed and adjusts pump torque according to work conditions. The system automatically adjusts engine power and hydraulic output to improve fuel efficiency and reduce emissions
- 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 touchscreen

## 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.

## SPC (SMART POWER CONTROL)

2 systems (Variable Speed Control and Pump Torque Control) work together to improve efficiency while maintaining productivity.





## **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

## 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 available: normal, double, and full-length, according to the application
- The track spring and idler are joined for long-lasting performance and easy maintenance
- Cast steel heavy-duty sprockets guarantee the highest resistance
- The track rollers are lubricated for life

## STRENGTHENED BOOM AND ARM

During the development of our machines, we use intensive testing to calculate the best load distribution throughout the boom structure.

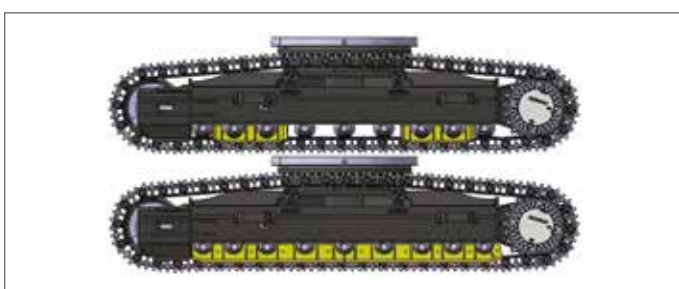
Combined with thicker material, this means that element fatigue is limited and both reliability and component life are increased. To better protect the base of the arm, reinforced bars have been added and the arm center and end boss have been strengthened.

## 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 minimises 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 optimised greasing and more efficient debris removal. Ultra-hard wear-resistant discs and bucket pivot polymer shims increase durability even more.



**Track guards:** to provide better protection, track alignment, and performance of machine while travelling. 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.



1

2

3

4

5

6

7

1. Large sun roof
2. Sun visor
3. Window grip
4. Storage compartment for sunglasses
5. Joysticks and switches are integrated in adjustable control consoles
6. Improved visibility on the bottom right
7. Separate seat height adjustment lever and cushion tilting function
8. Straight ergonomic pedals
9. Flat, spacious, easy-to-clean floor

# OPERATING IN HIGH COMFORT

## BEST-IN-CLASS OPERATOR ENVIRONMENT

The DX380LC-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 with air suspension provides maximum operator comfort.

## FIRST CLASS 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.

## KING SIZE TOUCHSCREEN

The wide 8" touchscreen 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° CAMERA SYSTEM

The 360° camera system gives you full view of the machine's surroundings.





1. Proportional switch
2. Display monitor
3. Breaker/Booster button
4. Joystick 1-touch function button
5. Starter switch (Start/Stop button)
6. Engine speed control dial
7. Travel speed selector switch
8. Light switch
9. Cab work light switch
10. After-treatment system switch
11. Bluetooth control panel
12. Air conditioning and heating control panel
13. Wiper control panel
14. Quick coupler switch

# TAKE A SEAT IN BUSINESS CLASS

The ergonomic controls and the easy-to-view colour monitor 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 one-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

## INTELLIGENT FLOATING BOOM MODE (OPTIONAL)

The “intelligent floating boom” function allows the boom to move up and down freely according to the application:

- Hydraulic breaker setting: during boom down operation, the boom moves down freely under its own weight. The result is reduced shock and vibration and longer breaker service life
- Full float setting: during boom down selection, the boom is allowed to rise and fall as required while the bucket is drawn across the ground

## 4 WORK MODES AND 4 POWER MODES

Delivers the needed power according to your specific application while minimizing fuel consumption:

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

## EXPERT FINGERTIP CONTROL

- The new multi-function 8" touchscreen 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 MAINTENANCE WITH 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 the starter 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.

## CENTRALISED GREASING POINTS

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



# TECHNICAL SPECIFICATIONS

## ENGINE

Designed to deliver superior performance and fuel efficiency, the Scania DCo9 diesel engine fully meets latest Stage V emission 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, Diesel Oxidation Catalyst (DOC) & Selective Catalytic Reduction (SCR) and Diesel Particulate Filter (DPF).

### Model

Scania DCo9

### No. of cylinders

5

### Rated power at 1800 rpm

SAE J1995 240.0 kW (326.0 hp)  
SAE J1349 236.1 kW (316.6 hp)

### Max. torque at 1200 rpm

1348 Nm

### Idle (low - high)

800 [±20] - 1900 [±25] rpm

### Displacement

9300 cm<sup>3</sup>

### Bore × stroke

130 mm × 140 mm

### Starter

24 V / 6 kW

### Batteries - Alternator

2 × 12 V, 200 Ah - 24 V, 100 A

### 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

### Upper rollers (standard shoe)

2

### Lower rollers

9

### Number of links & shoes per side

50

### Link pitch

216 mm

## 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 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

### Main pumps

2 × variable displacement tandem axial piston pumps  
Maximum flow at 1800 rpm 2 × 350 l/min

### Pilot pump

Gear pump  
Maximum flow at 1800 rpm 24.12 l/min

### Relief valve settings

Implement 380 bar (387.5 kgf/cm<sup>2</sup>)  
Travel 343 bar (350 kgf/cm<sup>2</sup>)  
Swing 294 bar (300 kgf/cm<sup>2</sup>)  
Pilot 40 bar (40.8 kgf/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.

| Cylinders | Quantity | Bore × rod diameter × stroke (mm) |
|-----------|----------|-----------------------------------|
| Boom      | 2        | 160 × 105 × 1450                  |
| Arm       | 1        | 170 × 120 × 1805                  |
| Bucket    | 1        | 150 × 100 × 1300                  |



## 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.

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

70 dB(A)

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

Declared: 105 dB(A)

Measured: 104 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

### **Maximum swing speed**

9.90 rpm

### **Maximum swing torque**

14830 kgf·m

## FLUID CAPACITIES

|                           |         |
|---------------------------|---------|
| Fuel tank                 | 600 l   |
| Cooling system (radiator) | 49.5 l  |
| Urea (def) tank           | 70 l    |
| Hydraulic oil tank        | 380 l   |
| Engine oil                | 36 l    |
| Swing drive               | 8 l     |
| Travel device             | 2 × 7 l |

## 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.

### **Travel speed (low - high)**

3.0 - 5.4 km/h

### **Maximum traction**

43.4 t

### **Maximum gradeability**

35° / 70%

## WEIGHT

|                | <b>Shoe width (mm)</b> | <b>Machine weight (t)</b> | <b>Ground pressure (kgf/cm<sup>2</sup>)</b> |
|----------------|------------------------|---------------------------|---|
| Triple grouser | 600 (Std)              | 40.2                      | 0.73  |
|                | 750                    | 41.1                      | 0.60  |
|                | 800                    | 41.3                      | 0.56  |
|                | 900                    | 41.8                      | 0.51  |
| Double grouser | 600                    | 40.4                      | 0.73  |

# TECHNICAL SPECIFICATIONS

## COMPONENT WEIGHTS

| Item                          | Unit     | Weight  | Remarks            |
|-------------------------------|----------|---|--------------------|
| Upper structure without front | kg       | 17311   | With counterweight |
| Lower structure assembly      | kg       | 14778   |                    |
| Counterweight                 | kg       | 7450  |                    |
| Front assembly                | kg       | 8087  | Based on standard  |
| Boom                          | mm<br>kg | 6500 / 6500 HD<br>2914 / 2970                             | Including bushing  |
| Arm                           | mm<br>kg | 2600 / 3200 / 3200 HD / 3950<br>1183 / 1361 / 1381 / 1548 | Including bushing  |

## BUCKETS

| Bucket Type | Capacity (m <sup>3</sup> ) SAE | Width (mm)        |                  | Weight (kg) | One-piece boom/Standard track |            |            | One-piece boom/Narrow track |            |            |
|-------------|--------------------------------|-------------------|------------------|-------------|-------------------------------|------------|------------|-----------------------------|------------|------------|
|             |                                | With side cutters | W/O side cutters |             | Arm 2.60 m                    | Arm 3.20 m | Arm 3.95 m | Arm 2.60 m                  | Arm 3.20 m | Arm 3.95 m |
| GP          | 1.25                           | 1278              | 1228             | 1249        | A                             | A          | A          | A                           | A          | A          |
|             | 1.61                           | 1550              | 1500             | 1392        | A                             | A          | A          | A                           | A          | B          |
|             | 1.83                           | 1718              | 1668             | 1522        | A                             | A          | B          | A                           | B          | C          |
| HD          | 1.44                           | 1272              | 1238             | 1389        | A                             | A          | A          | A                           | A          | B          |
|             | 1.66                           | 1428              | 1394             | 1489        | A                             | A          | A          | A                           | B          | C          |
|             | 1.81                           | 1588              | 1500             | 1588        | A                             | A          | B          | A                           | B          | D          |
|             | 2.03                           | 1684              | 1650             | 1684        | A                             | B          | C          | B                           | C          | D          |
|             | 2.32                           | 1892              | 1858             | 1817        | B                             | C          | D          | C                           | D          | -          |
| Rock        | 1.37                           | -                 | 1382             | 1451        | A                             | A          | A          | A                           | A          | B          |

A: Suitable for materials with a density less than or equal to 2100 kg/m<sup>3</sup>

B: Suitable for materials with a density less than or equal to 1800 kg/m<sup>3</sup>

C: Suitable for materials with a density less than or equal to 1500 kg/m<sup>3</sup>

D: Suitable for materials with a density less than or equal to 1200 kg/m<sup>3</sup>

Based on ISO 10567 and SAE J296, arm length without quick-coupler. For reference only.

## 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



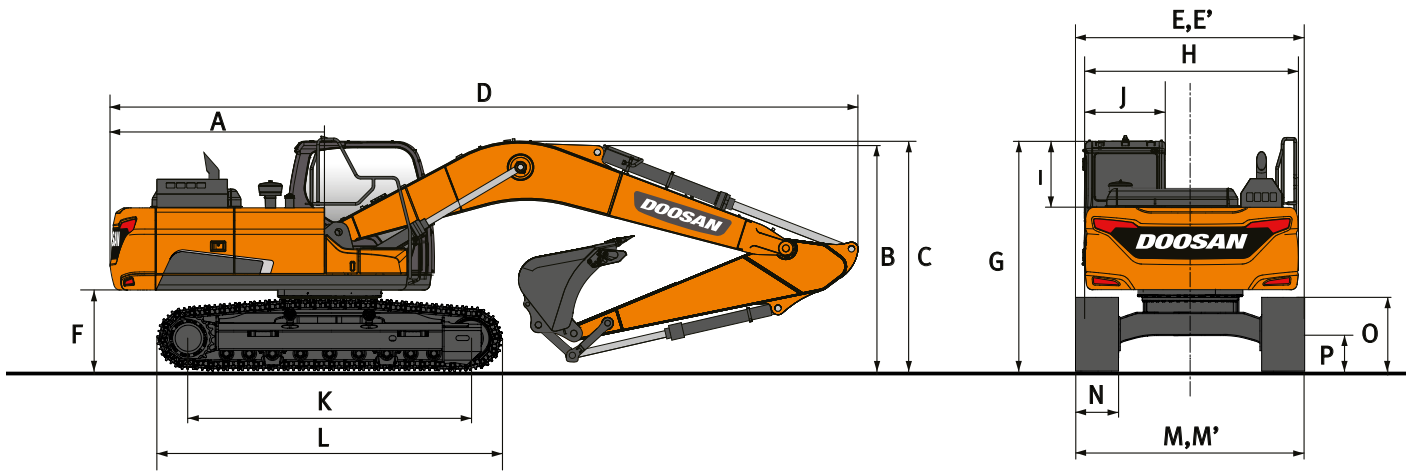
The Severe duty bucket is designed for durability in digging compact materials like loose or blasted rock, hard packed clay and stone.

### 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.

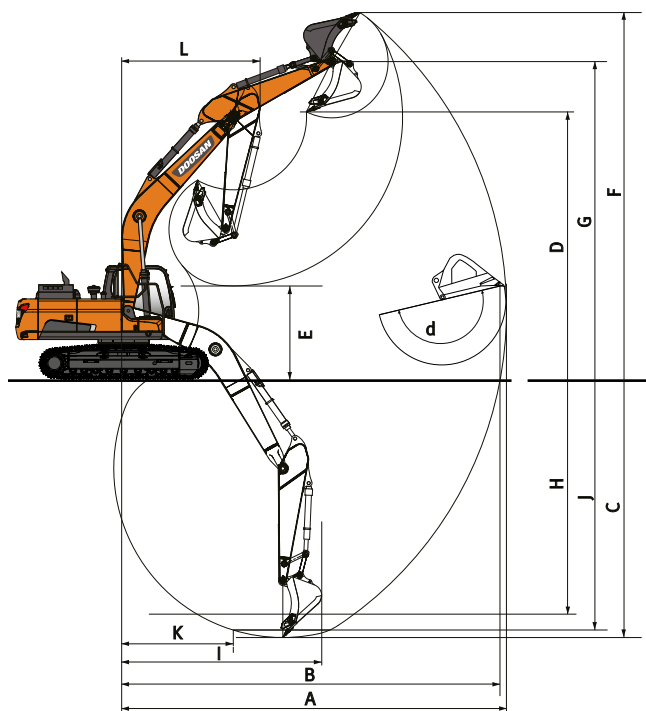
# DIMENSIONS



## DIMENSIONS

|                               | Unit                 | One-piece boom |             |             |
|-------------------------------|----------------------|----------------|-------------|-------------|
| <b>Boom length</b>            | <b>mm</b>            | <b>6500</b>    |             |             |
| <b>Arm length</b>             | <b>mm</b>            | <b>2600</b>    | <b>3200</b> | <b>3950</b> |
| <b>Bucket capacity</b>        | <b>m<sup>3</sup></b> | <b>1.83</b>    | <b>1.61</b> | <b>1.25</b> |
| A Tail swing radius           | mm                   | 3530           | 3530        | 3530        |
| B Shipping height (boom)      | mm                   | 3510           | 3280        | 3375        |
| C Shipping height (hose)      | mm                   | 3665           | 3415        | 3535        |
| D Shipping length             | mm                   | 11400          | 11285       | 11310       |
| E Shipping width std.         | mm                   | 3350           | 3350        | 3350        |
| E' Shipping width narrow      | mm                   | 3000           | 3000        | 3000        |
| F Counterweight clearance     | mm                   | 1280           | 1280        | 1280        |
| G Height over cab             | mm                   | 3210           | 3210        | 3210        |
| H House width                 | mm                   | 2990           | 2990        | 2990        |
| I Cab height above house      | mm                   | 853            | 853         | 853         |
| J Cab width                   | mm                   | 1010           | 1010        | 1010        |
| K Tumbler distance            | mm                   | 4250           | 4250        | 4250        |
| L Track length                | mm                   | 5200           | 5200        | 5200        |
| M Undercarriage width std     | mm                   | 3350           | 3350        | 3350        |
| M' Undercarriage width narrow | mm                   | 3000           | 3000        | 3000        |
| N Shoe width std.             | mm                   | 600            | 600         | 600         |
| O Track height                | mm                   | 1070           | 1070        | 1070        |
| P Ground clearance            | mm                   | 600            | 600         | 600         |

# WORKING RANGE



## WORKING RANGE

|                                 | Unit      | One-piece boom |             |             |
|---------------------------------|-----------|----------------|-------------|-------------|
| <b>Boom length</b>              | <b>mm</b> | <b>6500</b>    |             |             |
| <b>Arm length</b>               | <b>mm</b> | <b>2600</b>    | <b>3200</b> | <b>3950</b> |
| <b>Bucket capacity</b>          | <b>m³</b> | <b>1.83</b>    | <b>1.61</b> | <b>1.25</b> |
| A Max. digging reach            | mm        | 10585          | 11170       | 11930       |
| B Max. digging reach (ground)   | mm        | 10350          | 10955       | 11715       |
| C Max. digging depth            | mm        | 6810           | 7415        | 8165        |
| D Max. loading height           | mm        | 6990           | 7295        | 7755        |
| E Min. loading height           | mm        | 3435           | 2760        | 2075        |
| F Max. digging height           | mm        | 10090          | 10435       | 10940       |
| G Max. bucket pin height        | mm        | 8690           | 8995        | 9460        |
| H Max. vertical wall depth      | mm        | 4970           | 5840        | 6765        |
| I Max. radius vertical          | mm        | 7710           | 7720        | 7780        |
| J Max. digging depth (8° level) | mm        | 6580           | 7230        | 8020        |
| K Min. radius 8° level          | mm        | 3270           | 3320        | 3390        |
| L Min. swing radius             | mm        | 4480           | 4455        | 4515        |
| d Bucket angle                  | °         | 178            | 178         | 178         |

















## DIGGING FORCES (ISO)

|                           | Unit      | One-piece boom |             |             |
|---------------------------|-----------|----------------|-------------|-------------|
| <b>Boom length</b>        | <b>mm</b> | <b>6500</b>    |             |             |
| <b>Arm length</b>         | <b>mm</b> | <b>2600</b>    | <b>3200</b> | <b>3950</b> |
| <b>Bucket capacity</b>    | <b>m³</b> | <b>1.83</b>    | <b>1.61</b> | <b>1.25</b> |
| BUCKET (Normal/Press. Up) | ton       | 24.4 / 25.9    | 24.4 / 25.9 | 24.4 / 25.9 |
| ARM (Normal/Press. Up)    | ton       | 22.0 / 23.3    | 17.9 / 18.9 | 15.1 / 16.0 |

# LIFTING CAPACITIES

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  |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

## One-piece boom 6.5 m • Arm 2.6 m • Shoe 600 mm • Counterweight 7.45 t

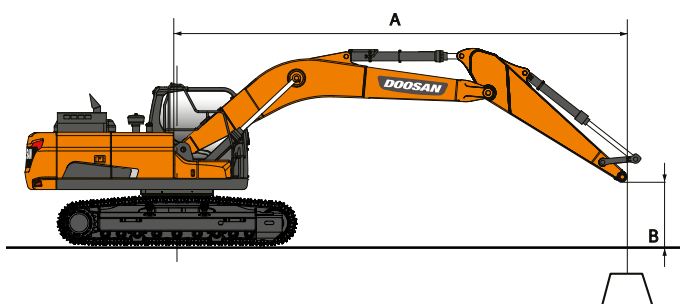
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|--------|--|--|---------|---------|---------|---------|---------|---------|---------|------|--|--|--|---------|---------|------|
| 7.5 m  |  |  |         |         |         |         |         |         |         |      |  |  |  | 10.56 * | 9.41    | 7.20 |
| 6.0 m  |  |  |         |         |         |         | 11.36 * | 11.36 * | 10.51 * | 8.75 |  |  |  | 10.43 * | 7.85    | 8.02 |
| 4.5 m  |  |  |         |         | 16.77 * | 16.77 * | 12.94 * | 11.89   | 11.16 * | 8.53 |  |  |  | 10.41   | 6.93    | 8.57 |
| 3.0 m  |  |  |         |         |         |         | 14.74 * | 11.30   | 12.04 * | 8.24 |  |  |  | 9.77    | 6.48    | 8.85 |
| 1.5 m  |  |  |         |         |         |         | 16.11 * | 10.85   | 12.29   | 7.99 |  |  |  | 9.63    | 6.35    | 8.85 |
| 0.0 m  |  |  |         |         | 21.95 * | 16.10   | 16.68 * | 10.61   | 12.11   | 7.83 |  |  |  | 9.96    | 6.53    | 8.60 |
| -1.5 m |  |  | 16.20 * | 16.20 * | 21.41 * | 16.16   | 16.32 * | 10.56   | 12.08   | 7.81 |  |  |  | 10.93   | 7.13    | 8.06 |
| -3.0 m |  |  | 24.76 * | 24.76 * | 19.20 * | 16.39   | 14.83 * | 10.69   |         |      |  |  |  | 11.88 * | 8.45    | 7.16 |
| -4.5 m |  |  | 19.17 * | 19.17 * | 15.07 * | 15.07 * |         |         |         |      |  |  |  | 11.61 * | 11.61 * | 5.74 |



## One-piece boom 6.5 m • Arm 3.2 m • Shoe 600 mm • Counterweight 7.45 t

|        |         |         |         |         |         |         |         |         |         |      |        |      |  |         |        |      |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|------|--------|------|--|---------|--------|------|
| 7.5 m  |         |         |         |         |         |         |         |         | 9.32 *  | 8.96 |        |      |  | 7.77 *  | 7.77 * | 7.81 |
| 6.0 m  |         |         |         |         |         |         |         |         | 9.66 *  | 8.85 |        |      |  | 7.59 *  | 6.98   | 8.66 |
| 4.5 m  |         |         |         |         | 14.97 * | 14.97 * | 11.95 * | 11.95 * | 10.43 * | 8.59 | 9.09 * | 6.45 |  | 7.69 *  | 6.24   | 9.18 |
| 3.0 m  |         |         |         |         | 19.00 * | 17.35   | 13.87 * | 11.42   | 11.43 * | 8.27 | 9.52   | 6.31 |  | 8.03 *  | 5.86   | 9.43 |
| 1.5 m  |         |         |         |         | 21.73 * | 16.38   | 15.50 * | 10.88   | 12.28   | 7.97 | 9.36   | 6.16 |  | 8.66 *  | 5.75   | 9.44 |
| 0.0 m  |         |         |         |         | 22.53 * | 16.00   | 16.41 * | 10.55   | 12.05   | 7.77 | 9.25   | 6.06 |  | 8.97    | 5.88   | 9.20 |
| -1.5 m |         |         | 15.58 * | 15.58 * | 21.98 * | 15.94   | 16.44 * | 10.43   | 11.95   | 7.68 |        |      |  | 9.69    | 6.32   | 8.70 |
| -3.0 m | 18.39 * | 18.39 * | 24.15 * | 24.15 * | 20.29 * | 16.10   | 15.46 * | 10.49   | 11.94 * | 7.75 |        |      |  | 11.08 * | 7.29   | 7.88 |
| -4.5 m |         |         | 22.63 * | 22.63 * | 17.03 * | 16.48   | 12.86 * | 10.77   |         |      |        |      |  | 11.15 * | 9.44   | 6.62 |

## One-piece boom 6.5 m • Arm 3.95 m • Shoe 600 mm • Counterweight 7.45 t

|        |         |         |         |         |         |         |         |         |         |        |        |      |  |         |         |       |
|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|------|--|---------|---------|-------|
| 9.0 m  |         |         |         |         |         |         |         |         | 6.41 *  | 6.41 * |        |      |  | 6.07 *  | 6.07 *  | 7.59  |
| 7.5 m  |         |         |         |         |         |         |         |         |         |        |        |      |  | 5.67 *  | 5.67 *  | 8.72  |
| 6.0 m  |         |         |         |         |         |         |         |         | 8.62 *  | 8.62 * | 7.52 * | 6.65 |  | 5.52 *  | 5.52 *  | 9.48  |
| 4.5 m  |         |         |         |         |         |         | 10.63 * | 10.63 * | 9.50 *  | 8.70   | 8.86 * | 6.52 |  | 5.55 *  | 5.49    | 9.96  |
| 3.0 m  |         |         |         |         | 16.84 * | 16.84 * | 12.68 * | 11.61   | 10.61 * | 8.34   | 9.44 * | 6.33 |  | 5.74 *  | 5.18    | 10.19 |
| 1.5 m  |         |         |         |         | 20.30 * | 16.65   | 14.58 * | 10.98   | 11.71 * | 7.99   | 9.35   | 6.13 |  | 6.09 *  | 5.08    | 10.20 |
| 0.0 m  |         |         | 9.52 *  | 9.52 *  | 22.04 * | 15.99   | 15.88 * | 10.54   | 12.01   | 7.72   | 9.18   | 5.98 |  | 6.68 *  | 5.17    | 9.98  |
| -1.5 m | 10.10 * | 10.10 * | 14.21 * | 14.21 * | 22.26 * | 15.75   | 16.36 * | 10.31   | 11.84   | 7.57   | 9.10   | 5.91 |  | 7.63 *  | 5.49    | 9.52  |
| -3.0 m | 15.15 * | 15.15 * | 20.25 * | 20.25 * | 21.25 * | 15.80   | 15.93 * | 10.28   | 11.82   | 7.55   |        |      |  | 9.26 *  | 6.15    | 8.78  |
| -4.5 m | 21.27 * | 21.27 * | 26.25 * | 26.25 * | 18.88 * | 16.06   | 14.29 * | 10.44   | 10.71 * | 7.72   |        |      |  | 10.26 * | 7.51    | 7.67  |
| -6.0 m |         |         | 19.32 * | 19.32 * | 14.25 * | 14.25 * | 10.03 * | 10.03 * |         |        |        |      |  | 10.03 * | 10.03 * | 6.00  |

















 : 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

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  |   |   |
|---|---|---|---|---|---|---|---|---|---|--|---|---|---|---|---|
|   |  |  |  |  |  |  |  |  |  |  |  |  |  |  | A |

**One-piece boom 6.5 m • Arm 2.6 m • Shoe 600 mm • Counterweight 7.45 t**

|        |  |  |         |         |         |       |         |       |         |      |  |  |  |         |       |      |
|--------|--|--|---------|---------|---------|-------|---------|-------|---------|------|--|--|--|---------|-------|------|
| 7.5 m  |  |  |         |         |         |       |         |       |         |      |  |  |  | 10.52 * | 8.38  | 7.09 |
| 6.0 m  |  |  |         |         |         |       | 11.36 * | 10.73 | 10.51 * | 7.58 |  |  |  | 10.43 * | 6.79  | 8.02 |
| 4.5 m  |  |  |         |         | 16.77 * | 15.53 | 12.94 * | 10.22 | 11.16 * | 7.36 |  |  |  | 10.46   | 5.98  | 8.57 |
| 3.0 m  |  |  |         |         |         |       | 14.74 * | 9.66  | 12.04 * | 7.08 |  |  |  | 9.82    | 5.56  | 8.85 |
| 1.5 m  |  |  |         |         |         |       | 16.11 * | 9.22  | 12.35   | 6.84 |  |  |  | 9.67    | 5.44  | 8.85 |
| 0.0 m  |  |  |         |         | 21.95 * | 13.43 | 16.68 * | 8.99  | 12.18   | 6.69 |  |  |  | 10.01   | 5.59  | 8.60 |
| -1.5 m |  |  | 16.20 * | 16.20 * | 21.41 * | 13.48 | 16.32 * | 8.95  | 12.15   | 6.66 |  |  |  | 10.98   | 6.09  | 8.06 |
| -3.0 m |  |  | 24.76 * | 24.76 * | 19.20 * | 13.70 | 14.83 * | 9.07  |         |      |  |  |  | 11.88 * | 7.22  | 7.16 |
| -4.5 m |  |  | 19.17 * | 19.17 * | 15.07 * | 14.15 |         |       |         |      |  |  |  | 11.61 * | 10.05 | 5.74 |

**One-piece boom 6.5 m • Arm 3.2 m • Shoe 600 mm • Counterweight 7.45 t**

|        |         |         |         |         |         |         |         |       |         |      |        |      |         |        |      |      |
|--------|---------|---------|---------|---------|---------|---------|---------|-------|---------|------|--------|------|---------|--------|------|------|
| 7.5 m  |         |         |         |         |         |         |         |       | 9.32 *  | 7.77 |        |      |         | 7.77 * | 7.24 | 7.81 |
| 6.0 m  |         |         |         |         |         |         |         |       | 9.66 *  | 7.67 |        |      |         | 7.59 * | 6.03 | 8.66 |
| 4.5 m  |         |         |         |         | 14.97 * | 14.97 * | 11.95 * | 10.37 | 10.43 * | 7.42 | 9.09 * | 5.55 | 7.69 *  | 5.37   | 9.18 |      |
| 3.0 m  |         |         |         |         | 19.00 * | 14.60   | 13.87 * | 9.77  | 11.43 * | 7.11 | 9.57   | 5.41 | 8.03 *  | 5.03   | 9.43 |      |
| 1.5 m  |         |         |         |         | 21.73 * | 13.68   | 15.50 * | 9.25  | 12.35   | 6.82 | 9.40   | 5.27 | 8.66 *  | 4.91   | 9.44 |      |
| 0.0 m  |         |         |         |         | 22.53 * | 13.32   | 16.41 * | 8.93  | 12.11   | 6.62 | 9.29   | 5.17 | 9.01    | 5.02   | 9.20 |      |
| -1.5 m |         |         | 15.58 * | 15.58 * | 21.98 * | 13.27   | 16.44 * | 8.82  | 12.02   | 6.53 |        |      | 9.74    | 5.40   | 8.70 |      |
| -3.0 m | 18.39 * | 18.39 * | 24.15 * | 24.15 * | 20.29 * | 13.42   | 15.46 * | 8.87  | 11.94 * | 6.60 |        |      | 11.08 * | 6.22   | 7.88 |      |
| -4.5 m |         |         | 22.63 * | 22.63 * | 17.03 * | 13.78   | 12.86 * | 9.14  |         |      |        |      | 11.15 * | 8.05   | 6.62 |      |

**One-piece boom 6.5 m • Arm 3.95 m • Shoe 600 mm • Counterweight 7.45 t**

|        |         |         |         |         |         |       |         |       |         |        |        |      |         |        |        |      |
|--------|---------|---------|---------|---------|---------|-------|---------|-------|---------|--------|--------|------|---------|--------|--------|------|
| 9.0 m  |         |         |         |         |         |       |         |       | 6.41 *  | 6.41 * |        |      |         | 6.07 * | 6.07 * | 7.59 |
| 7.5 m  |         |         |         |         |         |       |         |       |         |        |        |      |         | 5.67 * | 5.67 * | 8.72 |
| 6.0 m  |         |         |         |         |         |       |         |       | 8.62 *  | 7.81   | 7.52 * | 5.75 | 5.52 *  | 5.22   | 9.48   |      |
| 4.5 m  |         |         |         |         |         |       | 10.63 * | 10.61 | 9.50 *  | 7.53   | 8.86 * | 5.62 | 5.55 *  | 4.71   | 9.96   |      |
| 3.0 m  |         |         |         |         | 16.84 * | 15.11 | 12.68 * | 9.95  | 10.61 * | 7.17   | 9.44 * | 5.43 | 5.74 *  | 4.43   | 10.19  |      |
| 1.5 m  |         |         |         |         | 20.30 * | 13.93 | 14.58 * | 9.34  | 11.71 * | 6.83   | 9.39   | 5.24 | 6.09 *  | 4.33   | 10.20  |      |
| 0.0 m  |         |         | 9.52 *  | 9.52 *  | 22.04 * | 13.30 | 15.88 * | 8.92  | 12.08   | 6.57   | 9.22   | 5.09 | 6.68 *  | 4.40   | 9.98   |      |
| -1.5 m | 10.10 * | 10.10 * | 14.21 * | 14.21 * | 22.26 * | 13.09 | 16.36 * | 8.70  | 11.91   | 6.42   | 9.14   | 5.02 | 7.63 *  | 4.67   | 9.52   |      |
| -3.0 m | 15.15 * | 15.15 * | 20.25 * | 20.25 * | 21.25 * | 13.12 | 15.93 * | 8.67  | 11.89   | 6.40   |        |      | 9.26 *  | 5.24   | 8.78   |      |
| -4.5 m | 21.27 * | 21.27 * | 26.25 * | 26.25 * | 18.88 * | 13.38 | 14.29 * | 8.82  | 10.71 * | 6.57   |        |      | 10.26 * | 6.40   | 7.67   |      |
| -6.0 m |         |         | 19.32 * | 19.32 * | 14.25 * | 13.91 | 10.03 * | 9.28  |         |        |        |      | 10.03 * | 9.28   | 6.00   |      |

# STANDARD AND OPTIONAL EQUIPMENT

● Standard ○ Optional

## Engine

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- Scania, Stage V compliant, SCR, DOC and DPF post treatment
- Variable Turbo Charger and air-to-air intercooler
- Auto-idle function
- Auto shut-off

## Hydraulic system

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- Boom and arm flow regeneration
- Swing anti-rebound valves
- Spare ports (valve)
- Flow and pressure adjustment of hydraulics lines controlled from the cab
- One-touch power boost function
- Smart Power Control (SPC)
- Breaker piping
- Cylinder cushioning & contamination seals
- Setting of auxiliary hydraulic flow and pressure from the display panel

## Cab & Interior

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- Pressurised, sound-insulated and CabSus mounted cab
- Heated, adjustable air suspension seat with adjustable headrest and armrests
- Air conditioning with climate control
- Pull-up type front window with sun roller blind and removable lower front window
- Sliding left window
- Upper and lower windshield wipers
- 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 with hand levers
- Jog shuttle switch
- 8" color LCD touch-enabled gauge panel
- Attachment management system
- Engine speed (RPM) control dial
- Automatic travel speed
- 4 operating modes & 4 working modes
- Electric horn
- Ceiling light
- Cup holders
- 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 power socket and USB ports
- Serial communication port for laptop PC interface
- Integrated RADIO+MP3 (STEREO) with Bluetooth Streaming

## Safety

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- Roll Over Protective Structure (ROPS)
- Boom and arm cylinder safety valves
- Overload warning device
- Large guard rails on upper structure and steps
- Rotating beacon
- Around View Camera 360°
- 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
- Light Pack (4 front & 2 rear work lights on the cab)
- Emergency engine stop switch and hydraulic pump control switch
- FOGS cab - top and front cab guards (ISO 10262)
- Front window upper and lower guards
- Smart key
- Ultrasonic detection
- LED lights

## Other

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- Boom: 6500 mm – arm: 3200 mm – counterweight: 7450 kg
- "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 (24 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
- Electric transfer pump for initial priming of fuel filters
- Boom: 6500 mm heavy duty
- Arms: 2600 mm, 3200 mm heavy duty or 3950 mm
- Air compressor
- Side protector (For NLC version, the side protector will increase the transportation width by 12 cm, but is easily removable.)
- Single Catwalk
- Heavy-duty bottom cover
- Doosan buckets: full range of GP, HD & Rock buckets
- Doosan quick-couplers
- Hydraulic piping for crusher, quick-coupler, tilting and rotating buckets
- Additional filter for breaker piping
- Floating boom
- Double pump flow
- Engine coolant heater
- Oil-washed air cleaner
- Straight travel pedal (not to be combined with two-piece boom)
- Automatic lubrication system
- Alarm for travel & swing

## Undercarriage

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- X-frame with hydraulic track adjuster
- Normal track guards
- Greased and sealed track links
- 600 mm triple grouser shoe
- Narrow undercarriage
- Double track guards
- Full-length track guards
- 600 mm double grouser shoe
- 750 mm, 800 mm, 900 mm triple grouser shoe

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