

# Technical specifications

## Engine

Designed to deliver superior performance and fuel efficiency, the Doosan DLo8P 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), Diesel Oxidation Catalyst (DOC) & Selective Catalytic Reduction (SCR) with no Diesel Particulate Filter (DPF).

|                         | DX300LC-5                                                                   |
|-------------------------|-----------------------------------------------------------------------------|
| Model                   | Doosan DLo8P                                                                |
| No. of cylinders        | 6                                                                           |
| Rated power at 1800 rpm |                                                                             |
| (SAE J1995)             | 202 kW (270.8 hp)                                                           |
| (SAE J1349)             | 198.8 kW (266.5 hp)                                                         |
| Max. torque at 1300 rpm | 1275 Nm                                                                     |
| Idle (low - high)       | 800 [±10] - 1900 [±25] rpm                                                  |
| Piston displacement     | 7640 cm³                                                                    |
| Bore × stroke           | 108 mm × 139 mm                                                             |
| Starter                 | 24 V × 6 kW                                                                 |
| Batteries - Alternator  | 2 × 12 V, 150 Ah - 24 V, 80 A                                               |
| Air filter              | Double element air cleaner and pre-filtered<br>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

|                                  | DX300LC-5 |
|----------------------------------|-----------|
| Upper rollers (standard shoe)    | 2         |
| Lower rollers                    | 9         |
| Number of links & shoes per side | 48        |
| Link pitch                       | 216 mm    |

## Weight

|                                                                    | Shoe width (mm) | Machine weight (t) | Ground pressure (kgf/cm²) |
|--------------------------------------------------------------------|-----------------|--------------------|---------------------------|
| Triple grouser                                                     | 600 (Std)       | 30.9               | 0.59                      |
|                                                                    | 700             | 31.5               | 0.52                      |
|                                                                    | 800             | 31.8               | 0.46                      |
|                                                                    | 850             | 32.0               | 0.43                      |
| Double grouser                                                     | 600             | 31.6               | 0.60                      |
| DX300LC-5 with SLR front<br>(10 m boom, 7 m arm)<br>Triple grouser | 800             | 33.3               | 0.48                      |

## Component weights

| Item                          | Unit | Weight                               | Remarks                  |
|-------------------------------|------|--------------------------------------|--------------------------|
| Upper structure without front | kg   | 13568                                | With counterweight       |
| Lower structure assembly      | kg   | 10958                                | With narrow track: 10878 |
| Front assembly                | kg   | 6284                                 | Based on standard *      |
| Boom                          | mm   | 6245 / 6260 two-piece / 10000 SLR    | Including bushing        |
|                               | kg   | 2335 / 2494 / 3037                   |                          |
| Arm                           | mm   | 2500 / 2850 / 3100 / 3750 / 7000 SLR |                          |
|                               | kg   | 983 / 1190 / 1070 / 1149 / 1439      |                          |

(\*) Standard front – 6245 mm boom, 3100 mm arm, 1.27 m³ GP 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

|                          | DX300LC-5                                              |
|--------------------------|--------------------------------------------------------|
| Main pumps, type:        | 2 × variable displacement<br>tandem axial piston pumps |
| Maximum flow at 1800 rpm | 2 × 248 l/min                                          |
| Pilot pump, type:        | Gear pump                                              |
| Maximum flow at 1800 rpm | 27 l/min                                               |
| Relief valve settings:   |                                                        |
| Implement                | 350 kgf/cm²                                            |
| Travel                   | 350 kgf/cm²                                            |
| Swing                    | 295 kgf/cm²                                            |
| Pilot                    | 40 kgf/cm²                                             |

## 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        | 140 × 95 × 1450                   |
| Arm        | 1        | 150 × 105 × 1670                  |
| Bucket     | 1        | 135 × 90 × 1150                   |
| SLR Bucket | 1        | 95 × 65 × 900                     |

## ➤ 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

|                      | DX300LC-5   |
|----------------------|-------------|
| Maximum swing speed  | 9.88 rpm    |
| Maximum swing torque | 12137 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

|                           | DX300LC-5      |
|---------------------------|----------------|
| Travel speed (low - high) | 3.0 - 5.5 km/h |
| Maximum traction          | 35 t           |
| Maximum gradeability      | 35° / 70%      |

## ➤ Buckets

|             |                   |                   |                  |             | Standard track / narrow track |            |            |            |                |            |            |            | SLR          |
|-------------|-------------------|-------------------|------------------|-------------|-------------------------------|------------|------------|------------|----------------|------------|------------|------------|--------------|
| Bucket Type | Capacity (m³) SAE | Width (mm)        |                  | Weight (kg) | One-piece boom                |            |            |            | Two-piece boom |            |            |            | Boom 10.00 m |
|             |                   | With side cutters | W/O side cutters |             | Arm 2.50 m                    | Arm 2.85 m | Arm 3.10 m | Arm 3.75 m | Arm 2.50 m     | Arm 2.85 m | Arm 3.10 m | Arm 3.75 m | Arm 7.00 m   |
| GP          | 0.80              | 1037              | 962              | 860         | A / A                         | A / A      | A / A      | A / A      | A / A          | A / A      | A / A      | A / A      | -            |
|             | 1.03              | 1247              | 1172             | 990         | A / A                         | A / A      | A / A      | A / B      | A / A          | A / A      | A / A      | A / B      | -            |
|             | 1.27              | 1445              | 1376             | 1120        | A / A                         | A / B      | A / B      | A / C      | A / B          | A / B      | A / C      | A / D      | -            |
|             | 1.50              | 1657              | 1582             | 1220        | A / C                         | B / C      | B / D      | C / D      | A / C          | A / C      | C / D      | C / -      | -            |
|             | 1.75              | 1867              | 1792             | 1310        | B / D                         | C / D      | C / D      | D / -      | B / D          | B / D      | C / -      | D / -      | -            |
| HD          | 1.07              | 1134              | 1068             | 1080        | A / A                         | A / A      | A / A      | A / B      | A / A          | A / A      | A / B      | A / C      | -            |
|             | 1.27              | 1286              | 1220             | 1180        | A / B                         | A / B      | A / C      | B / C      | A / B          | A / B      | A / C      | A / D      | -            |
|             | 1.46              | 1424              | 1358             | 1250        | A / C                         | A / C      | B / D      | C / D      | A / C          | A / C      | C / D      | B / -      | -            |
| Rock        | 1.16              | -                 | 1432             | 1200        | A / A                         | A / B      | A / B      | A / C      | A / A          | A / B      | A / B      | A / C      | -            |
| SLR DC      | 0.45              | -                 | 1500             | 357         | -                             | -          | -          | -          | -              | -          | -          | -          | A            |
|             | 0.54              | -                 | 1800             | 405         | -                             | -          | -          | -          | -              | -          | -          | -          | A            |
| SLR GP      | 0.64              | 1167              | 1083             | 423         | -                             | -          | -          | -          | -              | -          | -          | -          | B            |

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

## ➤ Fluid capacities

|                           | DX300LC-5 |
|---------------------------|-----------|
| Fuel tank                 | 500 l     |
| Cooling system (radiator) | 48.4 l    |
| Urea (def) tank           | 60 l      |
| Hydraulic oil tank        | 280 l     |
| Engine oil                | 39 l      |
| Swing drive               | 7 l       |
| Travel device             | 2 × 7 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.

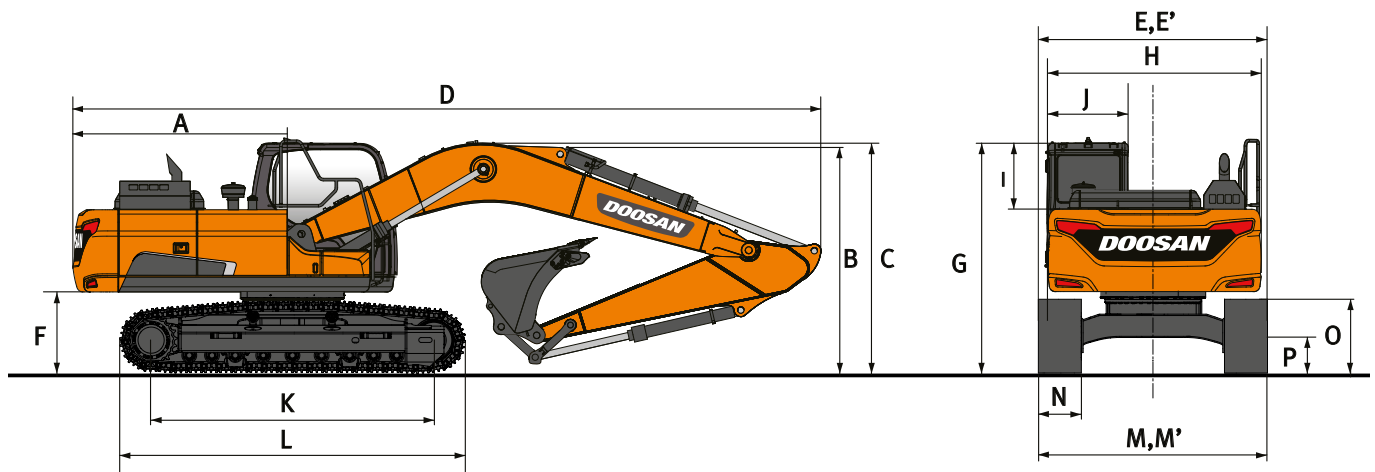
### ► Noise emission

|                                                                                           | DX300LC-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 : 104 dB(A)<br>Measured : 103 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.



# Dimensions



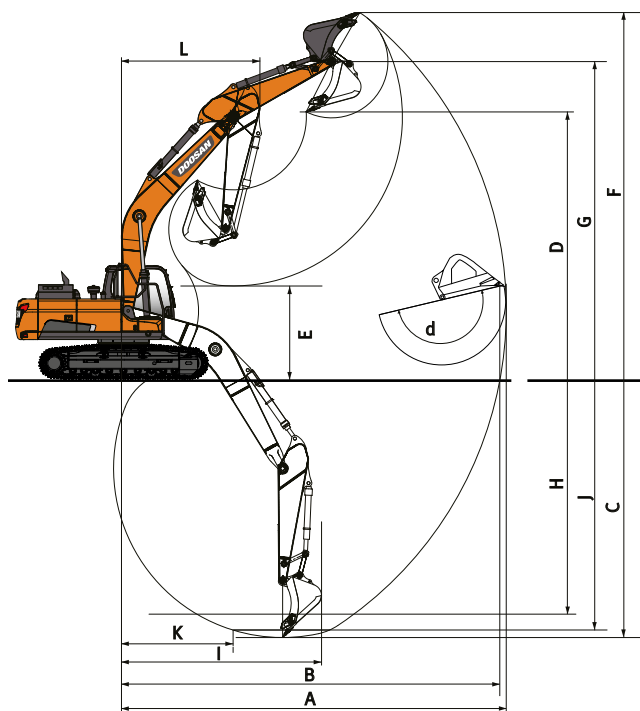
## Dimensions

| Boom length - mm                   | One-piece boom |       |       |       | Two-piece boom    |       |       |       | SLR   |
|------------------------------------|----------------|-------|-------|-------|-------------------|-------|-------|-------|-------|
|                                    | 6245           |       |       |       | 3250 LB + 3050 UB |       |       |       | 10000 |
| Arm length - mm                    | 2500           | 2850  | 3100  | 3750  | 2500              | 2850  | 3100  | 3750  | 7000  |
| Bucket capacity - m <sup>3</sup>   | 1.51           | 1.27  | 1.27  | 1.03  | 1.51              | 1.27  | 1.27  | 1.03  | 0.64  |
| A Tail swing radius - mm           | 3230           | 3230  | 3230  | 3230  | 3230              | 3230  | 3230  | 3230  | 3230  |
| B Shipping height (boom) - mm      | 3385           | 3495  | 3265  | 3455  | 3455              | 3575  | 3465  | 3700  | 3365  |
| C Shipping height (hose) - mm      | 3495           | 3615  | 3370  | 3575  | 3455              | 3575  | 3465  | 3700  | 3475  |
| D Shipping length - mm             | 10750          | 10700 | 10570 | 10680 | 10790             | 10680 | 10660 | 10680 | 14320 |
| E Shipping width std. - mm         | 3200           | 3200  | 3200  | 3200  | 3200              | 3200  | 3200  | 3200  | 3400  |
| E' Shipping width narrow - mm      | 3000           | 3000  | 3000  | 3000  | 3000              | 3000  | 3000  | 3000  | -     |
| F Counterweight clearance - mm     | 1150           | 1150  | 1150  | 1150  | 1150              | 1150  | 1150  | 1150  | 1155  |
| G Height over cab - mm             | 3065           | 3065  | 3065  | 3065  | 3065              | 3065  | 3065  | 3065  | 3070  |
| H House width - mm                 | 2960           | 2960  | 2960  | 2960  | 2960              | 2960  | 2960  | 2960  | 2960  |
| I Cab height above house - mm      | 845            | 845   | 845   | 845   | 845               | 845   | 845   | 845   | 845   |
| J Cab width - mm                   | 1010           | 1010  | 1010  | 1010  | 1010              | 1010  | 1010  | 1010  | 1010  |
| K Tumbler distance - mm            | 4040           | 4040  | 4040  | 4040  | 4040              | 4040  | 4040  | 4040  | 4040  |
| L Track length - mm                | 4940           | 4940  | 4940  | 4940  | 4940              | 4940  | 4940  | 4940  | 4940  |
| M Undercarriage width std - mm     | 3200           | 3200  | 3200  | 3200  | 3200              | 3200  | 3200  | 3200  | 3400  |
| M' Undercarriage width narrow - mm | 3000           | 3000  | 3000  | 3000  | 3000              | 3000  | 3000  | 3000  | -     |
| N Shoe width std. - mm             | 600            | 600   | 600   | 600   | 600               | 600   | 600   | 600   | 800   |
| O Track height - mm                | 1048           | 1048  | 1048  | 1048  | 1048              | 1048  | 1048  | 1048  | 1058  |
| P Ground clearance - mm            | 500            | 500   | 500   | 500   | 500               | 500   | 500   | 500   | 505   |

## Digging forces (ISO)

| Boom length - mm                   | One-piece boom |             |             | Two-piece boom    |             |             | SLR         |
|------------------------------------|----------------|-------------|-------------|-------------------|-------------|-------------|-------------|
|                                    | 6245           |             |             | 3250 LB + 3050 UB |             |             | 10000       |
| Arm length - mm                    | 2500           | 3100        | 3750        | 2500              | 3100        | 3750        | 7000        |
| Bucket capacity - m <sup>3</sup>   | 1.51           | 1.27        | 1.03        | 1.51              | 1.27        | 1.03        | 0.64        |
| BUCKET<br>(Normal/Press. Up) - ton | 18.9 / 20.0    | 18.9 / 20.0 | 18.9 / 20.0 | 18.9 / 20.0       | 18.9 / 20.0 | 18.9 / 20.0 | 10.0 / 10.5 |
| ARM<br>(Normal/Press. Up) - ton    | 16.0 / 17.0    | 13.2 / 13.9 | 11.7 / 12.4 | 16.0 / 17.0       | 13.2 / 13.9 | 11.7 / 12.4 | 7.1 / 7.5   |

# Working range



## Working range

| Boom length - mm                     | One-piece boom |       |       |       | Two-piece boom    |       |       |       | SLR   |
|--------------------------------------|----------------|-------|-------|-------|-------------------|-------|-------|-------|-------|
|                                      | 6245           |       |       |       | 3250 LB + 3050 UB |       |       |       | 10000 |
| Arm length - mm                      | 2500           | 2850  | 3100  | 3750  | 2500              | 2850  | 3100  | 3750  | 7000  |
| Bucket capacity - m³                 | 1.51           | 1.27  | 1.27  | 1.03  | 1.51              | 1.27  | 1.27  | 1.03  | 0.64  |
| A Max. digging reach - mm            | 10155          | 10415 | 10725 | 11240 | 11280             | 10555 | 10860 | 11415 | 17510 |
| B Max. digging reach (ground) - mm   | 9950           | 10215 | 10530 | 11065 | 10075             | 10355 | 10670 | 11235 | 17390 |
| C Max. digging depth - mm            | 6700           | 7055  | 7305  | 7950  | 6510              | 6720  | 7010  | 7605  | 13780 |
| D Max. loading height - mm           | 6990           | 6995  | 7280  | 7395  | 8415              | 8575  | 8895  | 9255  | 11975 |
| E Min. loading height - mm           | 3370           | 3010  | 2750  | 2110  | 4290              | 3960  | 3565  | 2950  | 2730  |
| F Max. digging height - mm           | 10010          | 9980  | 10325 | 10405 | 11615             | 11760 | 12085 | 12450 | 14195 |
| G Max. bucket pin height - mm        | 8585           | 8695  | 8880  | 8990  | 7970              | 10170 | 10495 | 10855 | 13290 |
| H Max. vertical wall depth - mm      | 5395           | 5450  | 6125  | 6600  | 5915              | 6720  | 6650  | 7135  | 11590 |
| I Max. radius vertical - mm          | 6840           | 7175  | 6840  | 7070  | 6360              | 6730  | 6330  | 6580  | 10900 |
| J Max. digging depth (8° level) - mm | 6465           | 6815  | 7110  | 7755  | 6295              | 6615  | 6905  | 7515  | 13395 |
| K Min. radius 8° level - mm          | 2970           | 2905  | 3000  | 2920  | 1825              | 1865  | 1800  | 1820  | 4140  |
| L Min. swing radius - mm             | 4045           | 4070  | 4040  | 4050  | 3015              | 3205  | 2820  | 3015  | 6120  |
| d Bucket angle - °                   | 176            | 176   | 175   | 174   | 176               | 176   | 175   | 174   | 169   |

## 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

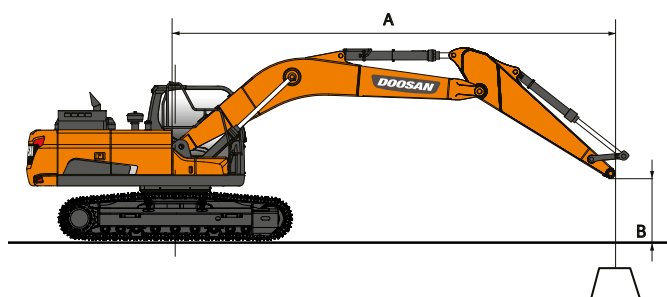
## DX300LC-5

Standard track width: 3200 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    |
| One-piece boom 6.24 m<br>Arm 2.5 m<br>Shoe 600 mm<br>Counterweight 5.3 t  | 7.5 m  |         |         |         |         |         |         | 7.37 *  | 7.37 * |        |        | 7.56 *  | 7.48 | 6.54       | 5.42 * | 7.27 |
|                                                                           | 6.0 m  |         |         |         |         |         |         | 7.70 *  | 7.70 * | 7.57 * | 5.92   | 7.59 *  | 5.83 | 7.56       | 5.17   | 8.19 |
|                                                                           | 4.5 m  |         |         |         |         | 10.87 * | 10.87 * | 8.77 *  | 8.17   | 7.87 * | 5.81   | 7.75 *  | 5.03 | 8.19       | 4.53   | 8.77 |
|                                                                           | 3.0 m  |         |         |         |         | 13.95 * | 11.65   | 10.17 * | 7.74   | 8.53 * | 5.61   | 7.28    | 4.64 | 8.50       | 4.2    | 9.07 |
|                                                                           | 1.5 m  |         |         |         |         | 16.08 * | 11.01   | 11.42 * | 7.38   | 8.64   | 5.42   | 7.12    | 4.5  | 8.54       | 4.08   | 9.10 |
|                                                                           | 0.0 m  |         |         |         |         | 16.73 * | 10.8    | 11.88   | 7.17   | 8.5    | 5.29   | 7.34    | 4.61 | 8.31       | 4.16   | 8.89 |
|                                                                           | -1.5 m |         |         | 12.50 * | 12.50 * | 16.43 * | 10.81   | 11.82   | 7.11   | 8.48   | 5.27   | 8.05    | 5.03 | 7.79       | 4.47   | 8.40 |
|                                                                           | -3.0 m |         |         | 20.76 * | 20.76 * | 15.24 * | 10.97   | 11.51 * | 7.21   |        |        | 9.66 *  | 6.01 | 6.90       | 5.18   | 7.59 |
|                                                                           | -4.5 m |         |         | 16.89 * | 16.89 * | 12.51 * | 11.35   |         |        |        |        | 10.00 * | 8.56 | 5.47       | 6.82   | 6.32 |
|                                                                           | -7.5 m |         |         |         |         |         |         |         |        |        |        |         |      |            |        |      |
| One-piece boom 6.24 m<br>Arm 3.1 m<br>Shoe 600 mm<br>Counterweight 5.3 t  | 7.5 m  |         |         |         |         |         |         | 6.87 *  | 6.87 * | 6.78 * | 6.03   |         |      | 5.42 *     | 5.42 * | 7.27 |
|                                                                           | 6.0 m  |         |         |         |         |         |         | 8.00 *  | 8.00 * | 7.27 * | 5.87   |         |      | 5.21 *     | 5.17   | 8.19 |
|                                                                           | 4.5 m  |         |         |         |         | 9.55 *  | 9.55 *  | 8.00 *  | 8.00 * | 7.02 * | 5.87   |         |      | 5.22 *     | 4.53   | 8.77 |
|                                                                           | 3.0 m  |         |         |         |         | 12.64 * | 11.98   | 9.47 *  | 7.86   | 8.02 * | 5.65   | 5.96 *  | 4.26 | 5.41 *     | 4.2    | 9.07 |
|                                                                           | 1.5 m  |         |         |         |         | 15.20 * | 11.18   | 10.88 * | 7.44   | 8.66   | 5.43   | 6.58    | 4.16 | 5.80 *     | 4.08   | 9.10 |
|                                                                           | 0.0 m  |         |         |         |         | 16.45 * | 10.8    | 11.87 * | 7.17   | 8.48   | 5.27   |         |      | 6.46 *     | 4.16   | 8.89 |
|                                                                           | -1.5 m | 8.59 *  | 8.59 *  | 12.25 * | 12.25 * | 16.60 * | 10.71   | 11.76   | 7.05   | 8.4    | 5.2    |         |      | 7.15       | 4.47   | 8.40 |
|                                                                           | -3.0 m | 13.97 * | 13.97 * | 18.94 * | 18.94 * | 15.84 * | 10.81   | 11.79   | 7.08   | 8.47   | 5.26   |         |      | 8.34       | 5.18   | 7.59 |
|                                                                           | -4.5 m |         |         | 19.23 * | 19.23 * | 13.86 * | 11.09   | 10.21 * | 7.31   |        |        |         |      | 9.44 *     | 6.82   | 6.32 |
|                                                                           | -7.5 m |         |         |         |         |         |         |         |        |        |        |         |      |            |        |      |
| One-piece boom 6.24 m<br>Arm 3.75 m<br>Shoe 600 mm<br>Counterweight 5.3 t | 7.5 m  |         |         |         |         |         |         |         |        | 5.63 * | 5.63 * |         |      | 4.48 *     | 4.48 * | 7.91 |
|                                                                           | 6.0 m  |         |         |         |         |         |         |         |        | 6.00 * | 6.00 * |         |      | 4.36 *     | 4.36 * | 8.78 |
|                                                                           | 4.5 m  |         |         |         |         |         |         | 7.09 *  | 7.09 * | 6.58 * | 5.94   | 5.68 *  | 4.39 | 4.39 *     | 4.12   | 9.32 |
|                                                                           | 3.0 m  |         |         |         |         | 11.15 * | 11.15 * | 8.62 *  | 7.97   | 7.41 * | 5.69   | 6.71    | 4.27 | 4.56 *     | 3.83   | 9.59 |
|                                                                           | 1.5 m  |         |         |         |         | 14.04 * | 11.36   | 10.17 * | 7.5    | 8.30 * | 5.43   | 6.56    | 4.13 | 4.89 *     | 3.72   | 9.63 |
|                                                                           | 0.0 m  |         |         | 8.55 *  | 8.55 *  | 15.83 * | 10.8    | 11.37 * | 7.15   | 8.45   | 5.23   | 6.45    | 4.03 | 5.44 *     | 3.77   | 9.43 |
|                                                                           | -1.5 m | 8.52 *  | 8.52 *  | 12.24 * | 12.24 * | 16.48 * | 10.59   | 11.67   | 6.97   | 8.32   | 5.11   |         |      | 6.34 *     | 4      | 8.97 |
|                                                                           | -3.0 m | 12.58 * | 12.58 * | 17.17 * | 17.17 * | 16.18 * | 10.6    | 11.64   | 6.94   | 8.31   | 5.1    |         |      | 7.31       | 4.53   | 8.21 |
|                                                                           | -4.5 m | 17.53 * | 17.53 * | 21.18 * | 21.18 * | 14.82 * | 10.8    | 11.06 * | 7.06   |        |        |         |      | 8.96 *     | 5.68   | 7.06 |
|                                                                           | -6.0 m |         |         | 16.32 * | 16.32 * | 11.55 * | 11.26   |         |        |        |        |         |      | 9.60 *     | 8.97   | 5.26 |

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    |
| One-piece boom 6.24 m<br>Arm 2.5 m<br>Shoe 600 mm<br>Counterweight 5.3 t | 7.5 m  |         |         |         |         |         |         | 7.37 *  | 7.37 * |        |      |        |      | 7.56 *     | 7.47   | 6.54 |
|                                                                          | 6.0 m  |         |         |         |         |         |         | 7.70 *  | 7.70 * | 7.57 * | 5.91 |        |      | 7.59 *     | 5.82   | 7.56 |
|                                                                          | 4.5 m  |         |         |         |         | 10.87 * | 10.87 * | 8.77 *  | 8.16   | 7.87 * | 5.79 |        |      | 7.75 *     | 5.02   | 8.19 |
|                                                                          | 3.0 m  |         |         |         |         | 13.95 * | 11.63   | 10.17 * | 7.73   | 8.53 * | 5.59 |        |      | 7.26       | 4.62   | 8.50 |
|                                                                          | 1.5 m  |         |         |         |         | 16.08 * | 10.98   | 11.42 * | 7.36   | 8.62   | 5.41 |        |      | 7.1        | 4.49   | 8.54 |
|                                                                          | 0.0 m  |         |         |         |         | 16.73 * | 10.78   | 11.85   | 7.15   | 8.48   | 5.28 |        |      | 7.32       | 4.6    | 8.31 |
|                                                                          | -1.5 m |         |         | 12.50 * | 12.50 * | 16.43 * | 10.78   | 11.78   | 7.1    | 8.46   | 5.26 |        |      | 8.03       | 5.02   | 7.79 |
|                                                                          | -3.0 m |         |         | 20.76 * | 20.76 * | 15.24 * | 10.95   | 11.51 * | 7.19   |        |      |        |      | 9.66 *     | 5.99   | 6.90 |
|                                                                          | -4.5 m |         |         | 16.89 * | 16.89 * | 12.51 * | 11.32   |         |        |        |      |        |      | 10.00 *    | 8.54   | 5.47 |
|                                                                          | -7.5 m |         |         |         |         |         |         |         |        |        |      |        |      |            |        |      |
| One-piece boom 6.24 m<br>Arm 3.1 m<br>Shoe 600 mm<br>Counterweight 5.3 t | 7.5 m  |         |         |         |         |         |         | 6.87 *  | 6.87 * | 6.78 * | 6.02 |        |      | 5.42 *     | 5.42 * | 7.27 |
|                                                                          | 6.0 m  |         |         |         |         |         |         | 8.00 *  | 8.00 * | 7.27 * | 5.86 |        |      | 5.21 *     | 5.16   | 8.19 |
|                                                                          | 4.5 m  |         |         |         |         | 9.55 *  | 9.55 *  | 8.00 *  | 8.00 * | 7.02 * | 5.87 |        |      | 5.22 *     | 4.52   | 8.77 |
|                                                                          | 3.0 m  |         |         |         |         | 12.64 * | 11.95   | 9.47 *  | 7.84   | 8.02 * | 5.64 | 5.96 * | 4.24 | 5.41 *     | 4.19   | 9.07 |
|                                                                          | 1.5 m  |         |         |         |         | 15.20 * | 11.15   | 10.88 * | 7.43   | 8.64   | 5.42 | 6.56   | 4.15 | 5.80 *     | 4.07   | 9.10 |
|                                                                          | 0.0 m  |         |         |         |         | 16.45 * | 10.78   | 11.86   | 7.15   | 8.46   | 5.25 |        |      | 6.46 *     | 4.15   | 8.89 |
|                                                                          | -1.5 m | 8.59 *  | 8.59 *  | 12.25 * | 12.25 * | 16.60 * | 10.69   | 11.72   | 7.04   | 8.38   | 5.18 |        |      | 7.13       | 4.46   | 8.40 |
|                                                                          | -3.0 m | 13.97 * | 13.97 * | 18.94 * | 18.94 * | 15.84 * | 10.78   | 11.76   | 7.07   | 8.44   | 5.24 |        |      | 8.31       | 5.17   | 7.59 |
|                                                                          | -4.5 m |         |         | 19.23 * | 19.23 * | 13.86 * | 11.06   | 10.21 * | 7.29   |        |      |        |      | 9.44 *     | 6.81   | 6.32 |
|                                                                          | -7.5 m |         |         |         |         |         |         |         |        |        |      |        |      |            |        |      |



: 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

## DX300LC-5

➤ 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    |
| Two-piece boom 6.26 m<br>Arm 3.1 m<br>Shoe 600 mm<br>Counterweight 5.9 t | 9.0 m  |       |   |         |         |         |         | 6.10 *  | 6.10 * |        |      |        |      | 6.01 *     | 6.01 * | 6.02 |
|                                                                          | 7.5 m  |       |   |         |         |         |         | 8.34 *  | 8.34 * |        |      |        |      | 5.32 *     | 5.32 * | 7.43 |
|                                                                          | 6.0 m  |       |   |         |         | 8.71 *  | 8.71 *  | 9.12 *  | 9.1    | 8.16 * | 6.33 |        |      | 5.04 *     | 5.04 * | 8.35 |
|                                                                          | 4.5 m  |       |   |         |         | 12.91 * | 12.91 * | 10.26 * | 8.71   | 8.49 * | 6.16 |        |      | 4.97 *     | 4.63   | 8.92 |
|                                                                          | 3.0 m  |       |   |         |         | 15.17 * | 12.52   | 11.28 * | 8.23   | 9.05 * | 5.93 | 6.79 * | 4.48 | 5.08 *     | 4.31   | 9.20 |
|                                                                          | 1.5 m  |       |   |         |         | 16.47 * | 11.7    | 12.02 * | 7.8    | 9.08   | 5.7  | 6.91   | 4.38 | 5.35 *     | 4.21   | 9.24 |
|                                                                          | 0.0 m  |       |   |         |         | 16.29 * | 11.33   | 12.14 * | 7.53   | 8.9    | 5.54 | 6.24 * | 4.32 | 5.84 *     | 4.3    | 9.03 |
|                                                                          | -1.5 m |       |   | 11.06 * | 11.06 * | 14.94 * | 11.28   | 11.46 * | 7.43   | 8.84   | 5.48 |        |      | 6.68 *     | 4.64   | 8.55 |
|                                                                          | -3.0 m |       |   | 15.31 * | 15.31 * | 12.53 * | 11.41   | 9.78 *  | 7.48   | 7.10 * | 5.57 |        |      | 6.47 *     | 5.36   | 7.75 |
|                                                                          |        |       |   |         |         |         |         |         |        |        |      |        |      |            |        |      |

➤ Standard track width: 3200 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    |
| Two-piece boom 6.26 m<br>Arm 3.75 m<br>Shoe 600 mm<br>Counterweight 5.9 t | 10.5 m |       |   |         |         | 6.73 *  | 6.73 *  |         |        |        |        |        |      | 5.96 *     | 5.96 * | 4.82 |
|                                                                           | 9.0 m  |       |   |         |         |         |         | 6.56 *  | 6.56 * |        |        |        |      | 4.84 *     | 4.84 * | 6.85 |
|                                                                           | 7.5 m  |       |   |         |         |         |         | 6.90 *  | 6.90 * | 6.10 * | 6.10 * |        |      | 4.40 *     | 4.40 * | 8.12 |
|                                                                           | 6.0 m  |       |   |         |         |         |         | 7.33 *  | 7.33 * | 7.12 * | 6.46   |        |      | 4.22 *     | 4.22 * | 8.96 |
|                                                                           | 4.5 m  |       |   | 9.82 *  | 9.82 *  | 9.45 *  | 9.45 *  | 9.04 *  | 8.91   | 8.00 * | 6.27   | 6.18 * | 4.64 | 4.20 *     | 4.20 * | 9.49 |
|                                                                           | 3.0 m  |       |   |         |         | 14.12 * | 12.93   | 10.70 * | 8.39   | 8.58 * | 6      | 6.88 * | 4.52 | 4.30 *     | 3.94   | 9.76 |
|                                                                           | 1.5 m  |       |   |         |         | 15.95 * | 11.94   | 11.65 * | 7.9    | 9.14   | 5.74   | 6.93   | 4.38 | 4.54 *     | 3.84   | 9.80 |
|                                                                           | 0.0 m  |       |   |         |         | 16.43 * | 11.38   | 12.07 * | 7.55   | 8.91   | 5.53   | 6.82   | 4.28 | 4.95 *     | 3.91   | 9.60 |
|                                                                           | -1.5 m |       |   | 11.18 * | 11.18 * | 15.64 * | 11.19   | 11.76 * | 7.37   | 8.79   | 5.42   | 6.78   | 4.24 | 5.63 *     | 4.16   | 9.15 |
|                                                                           | -3.0 m |       |   | 16.22 * | 16.22 * | 13.75 * | 11.24   | 10.55 * | 7.36   | 8.06 * | 5.43   |        |      | 6.43 *     | 4.7    | 8.41 |
|                                                                           | -4.5 m |       |   |         |         | 10.54 * | 10.54 * | 8.07 *  | 7.53   |        |        |        |      | 5.59 *     | 5.59 * | 7.28 |

## DX300LC-5 SLR

➤ Standard track width: 3200 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 |        | 15.0 m |        | Max. reach |        |       |
|--------------------------------------------------------------------------|---------|--------|--------|---------|---------|---------|--------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|------------|--------|-------|
|                                                                          | B       | ⏏      | ⏏      | ⏏       | ⏏       | ⏏       | ⏏      | ⏏       | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏      | ⏏          | ⏏      | A     |
| One-piece boom 10.0 m<br>Arm 7.0 m<br>Shoe 800 mm<br>Counterweight 6.3 t | 12.0 m  |        |        |         |         |         |        |         |        |        |        |        |        |        |        |        |        |        |        | 1.45 *     | 1.45 * | 12.85 |
|                                                                          | 10.5 m  |        |        |         |         |         |        |         |        |        |        |        |        |        |        | 1.86 * | 1.86 * |        |        | 1.39 *     | 1.39 * | 13.90 |
|                                                                          | 9.0 m   |        |        |         |         |         |        |         |        |        |        |        |        |        |        | 2.56 * | 2.56 * |        |        | 1.36 *     | 1.36 * | 14.71 |
|                                                                          | 7.5 m   |        |        |         |         |         |        |         |        |        |        |        |        |        |        | 2.78 * | 2.7    | 1.82 * | 1.82 * | 1.35 *     | 1.35 * | 15.33 |
|                                                                          | 6.0 m   |        |        |         |         |         |        |         |        |        |        |        |        |        |        | 2.91 * | 2.61   | 2.40 * | 2.09   | 1.36 *     | 1.36 * | 15.79 |
|                                                                          | 4.5 m   |        |        |         |         |         |        |         |        |        |        | 3.79 * | 3.79 * | 3.46 * | 3.46 * | 3.09 * | 2.5    | 2.82 * | 2.02   | 1.39 *     | 1.39 * | 16.10 |
|                                                                          | 3.0 m   |        |        |         |         | 9.29 *  | 9.29 * | 6.51 *  | 6.51 * | 5.16 * | 5.16 * | 4.37 * | 4.37 * | 3.87 * | 3.63   | 3.29 * | 2.38   | 3.14 * | 1.94   | 1.43 *     | 1.43 * | 16.26 |
|                                                                          | 1.5 m   |        |        |         |         | 6.47 *  | 6.47 * | 7.87 *  | 7.19   | 6.02 * | 5.4    | 4.95 * | 4.22   | 4.28 * | 3.37   | 3.51 * | 2.25   | 3.15   | 1.85   | 1.50 *     | 1.50 * | 16.28 |
|                                                                          | 0.0 m   |        |        | 3.30 *  | 3.30 *  | 5.78 *  | 5.78 * | 8.93 *  | 6.51   | 6.76 * | 4.93   | 5.48 * | 3.89   | 4.66 * | 3.14   | 3.62   | 2.14   | 3.07   | 1.78   | 1.59 *     | 1.55   | 16.16 |
|                                                                          | -1.5 m  | 3.87 * | 3.87 * | 4.37 *  | 4.37 *  | 6.23 *  | 6.23 * | 9.62 *  | 6.11   | 7.34 * | 4.6    | 5.93 * | 3.64   | 5.00 * | 2.96   | 3.52   | 2.04   | 3.01   | 1.72   | 1.72 *     | 1.56   | 15.90 |
|                                                                          | -3.0 m  | 4.84 * | 4.84 * | 5.45 *  | 5.45 *  | 7.11 *  | 7.11 * | 10.01 * | 5.92   | 7.72 * | 4.4    | 6.03   | 3.47   | 4.88   | 2.82   | 3.44   | 1.97   | 2.97   | 1.68   | 1.89 *     | 1.6    | 15.49 |
|                                                                          | -4.5 m  | 5.86 * | 5.86 * | 6.59 *  | 6.59 *  | 8.23 *  | 8.23 * | 10.15 * | 5.86   | 7.66   | 4.31   | 5.93   | 3.38   | 4.8    | 2.75   | 3.41   | 1.94   |        |        | 2.12 *     | 1.69   | 14.91 |
|                                                                          | -6.0 m  | 6.95 * | 6.95 * | 7.83 *  | 7.83 *  | 9.59 *  | 9.13   | 10.07 * | 5.9    | 7.65   | 4.3    | 5.9    | 3.35   | 4.77   | 2.72   | 3.42   | 1.95   |        |        | 2.44 *     | 1.84   | 14.16 |
|                                                                          | -7.5 m  | 8.12 * | 8.12 * | 9.20 *  | 9.20 *  | 11.22 * | 9.37   | 9.76 *  | 6.02   | 7.73   | 4.37   | 5.95   | 3.4    | 4.81   | 2.76   |        |        |        |        | 2.95 *     | 2.07   | 13.18 |
|                                                                          | -9.0 m  | 9.43 * | 9.43 * | 10.79 * | 10.79 * | 11.91 * | 9.71   | 9.19 *  | 6.23   | 7.41 * | 4.51   | 6.07   | 3.51   | 4.92   | 2.86   |        |        |        |        | 3.80 *     | 2.46   | 11.94 |
|                                                                          | -10.5 m |        |        | 12.68 * | 12.68 * | 10.53 * | 10.18  | 8.23 *  | 6.54   | 6.67 * | 4.75   | 5.47 * | 3.71   |        |        |        |        |        |        | 4.52 *     | 3.13   | 10.35 |
|                                                                          | -12.0 m |        |        |         |         | 8.42 *  | 8.42 * | 6.65 *  | 6.65 * | 5.30 * | 5.14   |        |        |        |        |        |        |        |        | 4.74 *     | 4.61   | 8.16  |



# Standard and optional equipment

## Engine

|                                                                                                                              |   |
|------------------------------------------------------------------------------------------------------------------------------|---|
| Doosan, 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

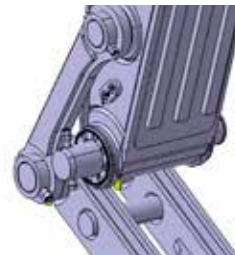
|                                                                          |   |
|--------------------------------------------------------------------------|---|
| Boom: 6245 mm – arm: 3100 mm – counterweight: 5300 kg                    | ● |
| "Doosan Connect" Telematic system                                        | ● |
| 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, 80 A) - Battery (2 × 12 V, 150 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               | ● |
| Guards for work lights                                                   | ● |
| Arms: 2500 mm, 2850 mm heavy duty, 3100 mm heavy duty or 3750 mm         | ○ |

|                                                                                      |   |
|--------------------------------------------------------------------------------------|---|
| Booms: one piece boom 6245 mm heavy duty or two-piece boom (3245 mm LB + 3050 mm UB) | ○ |
| SLR option: boom: 10000 mm – arm: 7000 mm – counterweight: 6300 kg                   | ○ |
| Counterweight two-piece boom: 5900 kg                                                | ○ |
| 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                                                                     | ○ |
| Engine coolant heater                                                                | ○ |
| Oil-washed air cleaner                                                               | ○ |
| Straight travel pedal (not to be combined with two-piece boom)                       | ○ |
| Bio oil                                                                              | ○ |
| Automatic lubrication system                                                         | ○ |
| Alarm for travel & swing                                                             | ○ |

## Undercarriage

|                                      |   |
|--------------------------------------|---|
| Narrow 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           | ○ |
| 700, 800, 850 mm triple grouser shoe | ○ |

Standard: ●  
Optional: ○



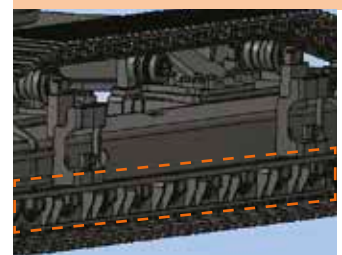
Heavy duty arm & boom



Engine coolant heater



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.