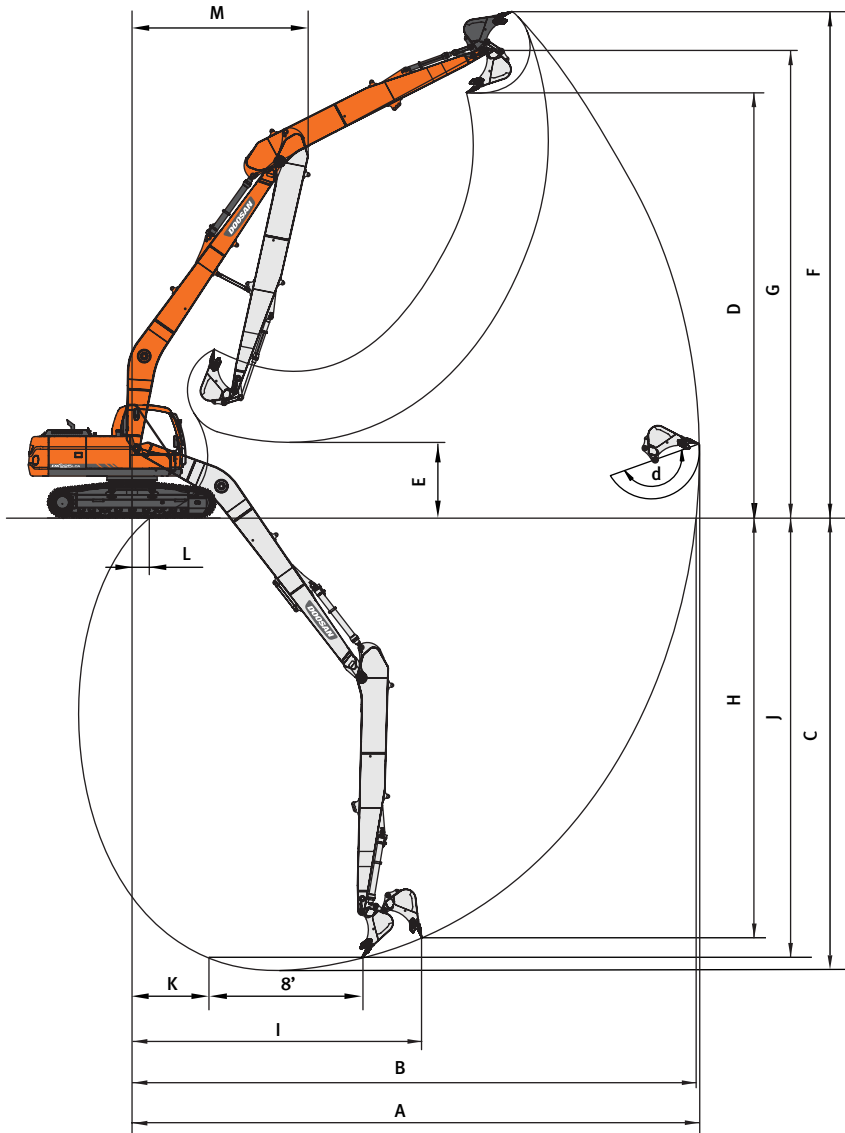


# WORKING RANGES

DX225LCA SLR



## Working Ranges

|                             |                   |   |        |        |
|-----------------------------|-------------------|---|--------|--------|
| BOOM TYPE (ONE PIECE)       | (mm)              |   | 8,500  | 8,500  |
| ARM TYPE                    | (mm)              |   | 6,200  | 6,200  |
| BUCKET TYPE (SAE/PCSA)      | (m <sup>3</sup> ) |   | 0.39   | 0.51   |
| MAX. DIGGING REACH          | (mm)              | A | 15,379 | 15,379 |
| MAX. DIGGING REACH (GROUND) | (mm)              | B | 15,268 | 15,268 |
| MAX. DIGGING DEPTH          | (mm)              | C | 11,661 | 11,661 |
| MAX. LOADING HEIGHT         | (mm)              | D | 11,148 | 11,148 |
| MIN. LOADING HEIGHT         | (mm)              | E | 2,009  | 2,009  |
| MAX. DIGGING HEIGHT         | (mm)              | F | 13,403 | 13,403 |
| MAX. BUCKET PIN HEIGHT      | (mm)              | G | 12,380 | 12,380 |
| MAX. VERTICAL WALL DEPTH    | (mm)              | H | 9,729  | 9,729  |
| MAX. RADIUS VERTICAL        | (mm)              | I | 10,064 | 10,064 |
| MAX. DEPTH TO 8' LINE       | (mm)              | J | 11,561 | 11,561 |
| MIN. RADIUS 8' LINE         | (mm)              | K | 4,854  | 4,854  |
| MIN. DIGGING REACH          | (mm)              | L | 196    | 196    |
| MIN. SWING RADIUS           | (mm)              | M | 4,714  | 4,714  |
| BUCKET ANGLE                | (deg)             | d | 166    | 166    |

## Doosan is

Since 1896, Doosan, the oldest company in Korea, has evolved with its people. The company grew up rapidly for last 10 years with reputation. For human-oriented vision, Doosan has been building constructions, energy, machines, infra structures globally. As a global leader of infra structure, Doosan continues its vision to make human-oriented future.

First in Korea, Doosan self-developed excavators in 1985 and continued building versatile construction machines including excavators, wheel loaders, articulated dump trucks to execute its human-oriented philosophy. Doosan became a global leader of heavy construction machine industry by achieving global sales line, producing line, and distribution line. Along with large production bases in Korea, China, USA, Belgium, Czech, Brazil, Doosan has 1400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.

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Materials and Specifications in the catalogue are subject to change without notice.



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**DOOSAN**

Construction Equipment

# DX225LCA SLR

|                    |   |
|--------------------|---|
| Engine Power       | SAE J1349, net 110kW (148HP) @ 1,900rpm                   |
| Operational Weight | 23,200kg  |
| Bucket (SAE/PCSA)  | 0.39 ~ 0.51 m <sup>3</sup> (0.51 ~ 0.67 yd <sup>3</sup> ) |



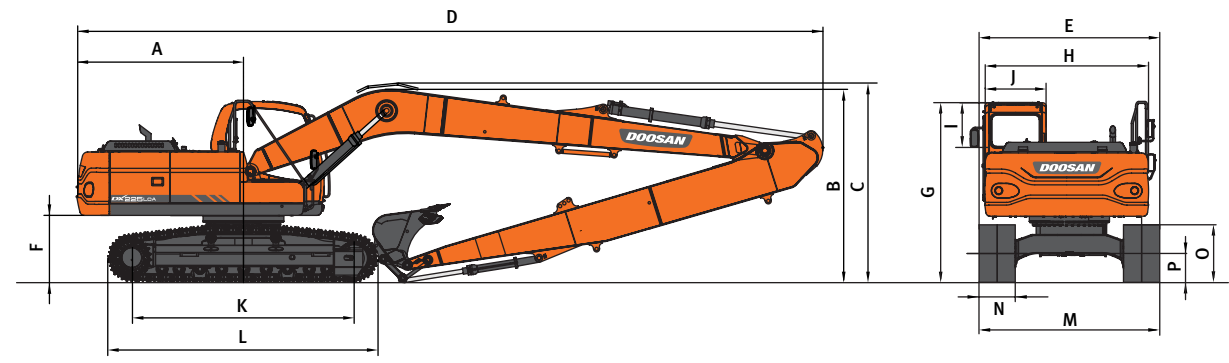


# DIMENSIONS

# LIFTING CAPACITY

# TECHNICAL SPECIFICATIONS

DX225LCA SLR



## Dimensions

|                         | (mm) |       |        |        |
|-------------------------|------|-------|--------|--------|
| BOOM TYPE (ONE PIECE)   | (mm) | 8,500 |        | 8,500  |
| ARM TYPE                | (mm) | 6,200 |        | 6,200  |
| BUCKET TYPE (SAE/PCSA)  | (m³) | 0.39  |        | 0.51   |
| TAIL SWING RADIUS       | (mm) | A     | 2,750  | 2,750  |
| SHIPPING HEIGHT (BOOM)  | (mm) | B     | 3,175  | 3,175  |
| SHIPPING HEIGHT (HOSE)  | (mm) | C     | 3,254  | 3,254  |
| SHIPPING LENGTH         | (mm) | D     | 12,317 | 12,317 |
| SHIPPING WIDTH          | (mm) | E     | 2,990  | 2,990  |
| C/WEIGHT CLEARANCE      | (mm) | F     | 1,055  | 1,055  |
| HEIGHT OVER CAB.        | (mm) | G     | 2,975  | 2,975  |
| HOUSE WIDTH             | (mm) | H     | 2,710  | 2,710  |
| CAB. HEIGHT ABOVE HOUSE | (mm) | I     | 845    | 845    |
| CAB. WIDTH              | (mm) | J     | 960    | 960    |
| TUMBLER DISTANCE        | (mm) | K     | 3,650  | 3,650  |
| TRACK LENGTH            | (mm) | L     | 4,445  | 4,445  |
| UNDERCARRIAGE WIDTH     | (mm) | M     | 2,990  | 2,990  |
| SHOE WIDTH              | (mm) | N     | 600    | 600    |
| TRACK HEIGHT            | (mm) | O     | 947    | 947    |
| CAR BODY CLEARANCE      | (mm) | P     | 480    | 480    |

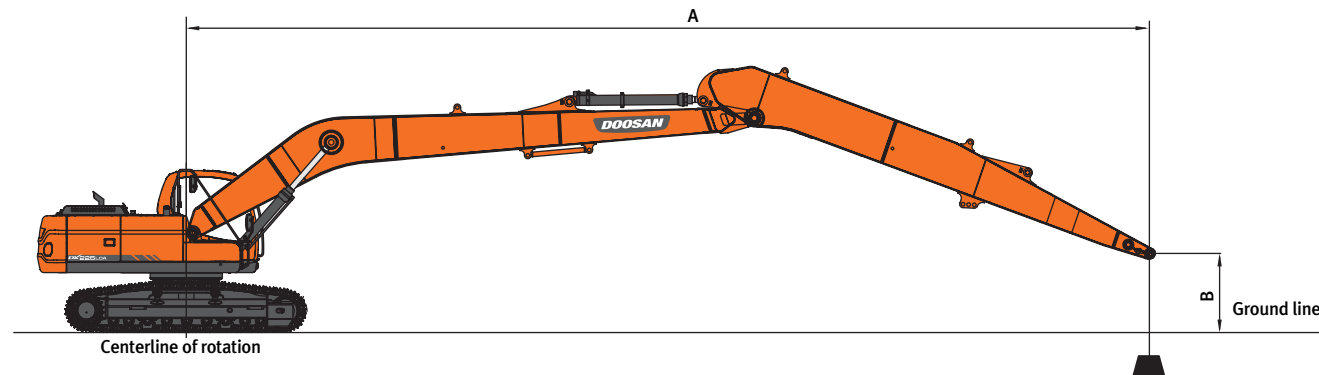
## Digging Force (ISO)

|                   |            |            |
|-------------------|------------|------------|
| BUCKET (SAE/PCSA) | 0.39 m³    | 0.51 m³    |
| DIGGING FORCE     | 10,000 kgf | 11,000 kgf |
|                   | 98.1 kN    | 107.91 kN  |
|                   | 22,046 lbf | 24,251 lbf |
| ARM               | 6,200 mm   | 6,200 mm   |
| DIGGING FORCE     | 5,980 kgf  | 5,980 kgf  |
|                   | 58.7 kN    | 58.7 kN    |
|                   | 13,183 lbf | 13,183 lbf |

## Weight

Boom : 8,500mm (27'11") Arm : 6,200mm (20'4") Bucket : SAE/PCSA 0.39m³ (0.51yd³)

| SHOE TYPE      | SHOE WIDTH    | OPERATING WEIGHT    | GROUND PRESSURE (kgf/cm²)     |
|----------------|---------------|---------------------|-------------------------------|
|                | 600mm (2')    | 23,200kg (51,147lb) | 0.49kgf/cm² (48.1kpa, 7.0psi) |
|                | 700mm (2'4")  | 23,500kg (51,809lb) | 0.43kgf/cm² (42.2kpa, 6.1psi) |
| TRIPLE GROUSER | 800mm (2'8")  | 23,800kg (52,470lb) | 0.38kgf/cm² (37.3kpa, 5.4psi) |
|                | 900mm (2'11") | 24,100kg (53,131lb) | 0.33kgf/cm² (32.4kpa, 4.7psi) |



Boom : 8,500mm Arm : 6,200mm Shoe : 600mm

Metric unit : 1,000kg

| A(m)       |      |   |   |   |   |   |   |   |   |   |    |    |    |    | Max. Reach |   |   |       |       |        |
|------------|------|---|---|---|---|---|---|---|---|---|----|----|----|----|------------|---|---|-------|-------|--------|
|            | B(m) | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14         | 1 | 2 | A(m)  |       |        |
| 12         |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.02 | *1.02 | @9.70  |
| 11         |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.98 | *0.98 | @10.66 |
| 10         |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.95 | *0.95 | @11.46 |
| 9          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.94 | *0.94 | @12.11 |
| 8          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.94 | *0.94 | @12.66 |
| 7          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.94 | *0.94 | @13.10 |
| 6          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.96 | *0.96 | @13.46 |
| 5          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *0.98 | *0.98 | @13.73 |
| 4          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.00 | *1.00 | @13.92 |
| 3          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.04 | *1.04 | @14.04 |
| 2          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.08 | *1.08 | @14.09 |
| 1          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.13 | *1.13 | @14.07 |
| 0 (Ground) |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.20 | *1.20 | @13.97 |
| 1          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.27 | *1.27 | @13.80 |
| 2          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.36 | *1.36 | @13.56 |
| 3          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.48 | *1.48 | @13.23 |
| 4          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.62 | *1.62 | @12.82 |
| 5          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *1.80 | *1.80 | @12.31 |
| 6          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *2.04 | *2.04 | @11.69 |
| 7          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *2.38 | *2.38 | @10.95 |
| 8          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *2.76 | *2.76 | @10.05 |
| 9          |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *2.67 | *2.67 | @9.95  |
| 10         |      |   |   |   |   |   |   |   |   |   |    |    |    |    |            |   |   | *2.46 | *2.46 | @7.53  |

Feet unit : 1,000lb

| A(ft)      |       |    |    |    |    |    |    |    |    |   |   |       |  |  | Max. Reach |  |  |       |       |        |
|------------|-------|----|----|----|----|----|----|----|----|---|---|-------|--|--|------------|--|--|-------|-------|--------|
|            | B(ft) | 10 | 15 | 20 | 25 | 30 | 35 | 40 | 45 | 1 | 2 | A(ft) |  |  |            |  |  |       |       |        |
| 40         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.27 | *2.27 | @31.16 |
| 35         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.13 | *2.13 | @35.91 |
| 30         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.07 | *2.07 | @39.46 |
| 25         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.07 | *2.07 | @42.12 |
| 20         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.10 | *2.10 | @44.05 |
| 15         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.18 | *2.18 | @45.34 |
| 10         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.28 | *2.28 | @46.06 |
| 5          |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.43 | *2.43 | @46.22 |
| 0 (Ground) |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.64 | *2.64 | @45.84 |
| -5         |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *2.90 | *2.90 | @44.89 |
| -10        |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *3.27 | *3.27 | @43.35 |
| -15        |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *3.78 | *3.78 | @41.14 |
| -20        |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *4.55 | *4.55 | @38.14 |
| -25        |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *5.87 | *5.87 | @34.16 |
| -30        |       |    |    |    |    |    |    |    |    |   |   |       |  |  |            |  |  | *5.83 | *5.83 | @28.77 |

- Load point is the end of the arm.
- Capacities marked with an asterisk(\*) are limited by hydraulic capacities.
- Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
- The least stable position is over the side.
- Lift capacities are in compliance with ISO 10567.

## Engine

|                        |   |
|------------------------|---|
| Model                  | Doosan DB58TIS                            |
| Nominal flywheel power | 110kW (148HP) @ 1,900rpm (SAE J1349, net) |
| Piston displacement    | 5,785 cc (353 cu.in)                      |

## Swing Mechanism

- An axial piston motor with two-stage planetary reduction gear is used for the swing.
- Increased swing torque reduces swing time.
- Internal induction-hardened gear.
- Internal gear and pinion immersed in lubricant bath.
- The swing brake for parking is activated by spring and released hydraulically.

|                   |                             |
|-------------------|-----------------------------|
| Swing speed       | 0 to 11.0 rpm               |
| Max. swing torque | 6,477 kgf.m (46,631 lbf.ft) |

## Drive

Each track is driven by an independent axial piston motor through a planetary reduction gearbox. Two levers with control pedals guarantee smooth travel with counter rotation on demand.

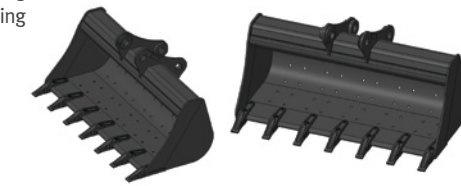
|                          |   |
|--------------------------|---|
| Travel speed (fast/slow) | 5.5 / 3.0 km/h (3.4 / 1.9 mph)            |
| Maximum traction force   | 11,500 / 21,800 kgf (25,353 / 48,061 lbf) |
| Maximum grade            | 35° (70 %)                                |

## Refill Capacities

|                                    |                                   |
|------------------------------------|-----------------------------------|
| Fuel tank                          | 400 ℓ (105.7 US gal, 88 Imp gal)  |
| Cooling system (Radiator capacity) | 24 ℓ (6.3 US gal, 5.3 Imp gal)    |
| Engine oil                         | 28 ℓ (7.4 US gal, 6.2 Imp gal)    |
| Swing drive                        | 5 ℓ (1.32 US gal, 1.1 Imp gal)    |
| Final drive (each)                 | 3.3 ℓ (0.87 US gal, 0.73 Imp gal) |
| Hydraulic system                   | 330 ℓ (87 US gal, 73 Imp gal)     |
| Hydraulic tank                     | 240 ℓ (63.4 US gal, 52.8 Imp gal) |

## Options

0.45 m³ bucket-ditch cleaning  
0.54 m³ bucket-ditch cleaning  
0.51 m³ GP bucket



## Hydraulic System

The heart of the system is the EPOS™ (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

|            |   |
|------------|---|
| Main pumps | 2 variable displacement axial piston pumps<br>Max flow: 2 X 206.5 ℓ / min (2 X 55US gpm, 2 X 45Imp gpm) |
|------------|---|

|            |  |
|------------|--|
| Pilot pump | Gear pump - max flow: 28.5 ℓ / min (7.5US gpm, 6.3Imp gpm) |
|------------|--|

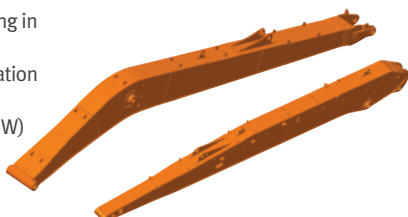
|                         |   |
|-------------------------|---|
| Maximum system pressure | Boom / Arm / Bucket :<br>- Normal mode : 330kgf/cm² (324bar)<br>- Power mode : 350kgf/cm² (343bar)<br>Travel : 330kgf/cm² (324bar)<br>Swing : 270kgf/cm² (265bar) |
|-------------------------|---|

## Hydraulic Cylinders

The piston rods and cylinder bodies are made of high-strength steel. A shock absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extend piston life.

| Cylinders  | Quantity | Bore x Rod diameter x stroke          |
|------------|----------|---------------------------------------|
| SLR Bucket | 1        | 95 X 65 X 900mm (3.7" X 2.6" X 2'11") |

Doosan SLR kit is designed for using in drainage canal construction and preservation and Light duty excavation at long distance. (should be equipped additional C/W)



## Bucket

| Capacity           | Width       | Weight               | Recommendation        |                   |
|--------------------|-------------|----------------------|-----------------------|-------------------|
|                    |             |                      | 8,500mm (27'11") Boom | 6,200 (20'4") Arm |
| SAE/PCSA, heaped   | CECE heaped | Without side cutters | With side cutters     |                   |
| 0.39 m³ (0.51 yd³) | 0.35 m³     | 736 mm (2'5")        | 820 mm (2'8")         | 338 kg (745 lb) A |
| 0.51 m³ (0.67 yd³) | 0.45 m³     | 907 mm (3')          | 991 mm (3'3")         | 393 kg (866 lb) B |

Based on ISO 10567 and SAE J296, 800mm shoe, arm length without quick change clamp

A : Suitable for materials with density of 2,100kg/m³ (3500lb/yd³) or less  
B : Suitable for materials with density of 1,800kg/m³ (3000lb/yd³) or less  
C : Suitable for materials with density of 1,500kg/m³ (2500lb/yd³) or less  
D : Suitable for materials with density of 1,200kg/m³ (2000lb/yd³) or less