



Doosan Infracore  
Construction Equipment

# DX255LC TECHNICAL DATA



## GENERAL SPECIFICATIONS

|   | ITEMS  | UNIT                                      | STANDARD                       |
|---|--|---|--------------------------------|
| ENGINE  | MODEL  |   | Doosan DL06                    |
|   | NUMBER OF CYLINDERS                              |   | 6                              |
|   | RATED FLYWHEEL POWER<br>(hp PER SAE J1995) GROSS | hp / rpm                                  | 173 / 1,900                    |
|   |  | kW / rpm                                  | 129 / 1,900                    |
|   | RATED FLYWHEEL POWER<br>(hp PER SAE J1349) NET   | hp / rpm                                  | 166 / 1,900                    |
|   |  | kW / rpm                                  | 124 / 1,900                    |
|   | MAXIMUM TORQUE<br>(GROSS) (SAE J1995)            | ft. lb. / rpm                             | 564 / 1,400                    |
|   |  | Nm / rpm                                  | 765 / 1,400                    |
|   | PISTON DISPLACEMENT                              | in. <sup>3</sup>                          | 359                            |
|   |  | cc  | 5,890                          |
|   | BORE AND STROKE                                  | in. x in.                                 | 3.9 x 4.9                      |
|   |  | mm x mm                                   | 100 x 125                      |
|   | STARTER  | V / kW                                    | 24 V, 4.5 kW                   |
| BATTERIES   | V / AH   | 2 x 12 V x 100 AH                         |                                |
| AIR CLEANER   |  | Double element with auto dust evacuation. |                                |
| MAIN PUMPS – 2 VARIABLE DISPLACEMENT AXIAL PISTON PUMPS<br>MAX FLOW | US gpm   | 2 x 58                                    |                                |
|   | L / min.   | 2 x 219                                   |                                |
| PILOT PUMP (GEAR DESIGN)  | MAXIMUM FLOW                                     | US gpm                                    | 7.5                            |
|   |  | L / min                                   | 28.5                           |
|   | RELIEF PRESSURE                                  | psi                                       | 569                            |
|   |  | bar                                       | 39                             |
| MAXIMUM SYSTEM PRESSURE   | BOOM/ARM/BUCKET<br>(NORMAL MODE)                 | psi                                       | 4,694                          |
|   |  | bar                                       | 324                            |
|   | BOOM/ARM/BUCKET<br>(POWER MODE)                  | psi                                       | 4,978                          |
|   |  | bar                                       | 343                            |
|   | TRAVEL   | psi                                       | 4,694                          |
|   |  | bar                                       | 324                            |
|   | SWING  | psi                                       | 3,911                          |
|   |  | bar                                       | 270                            |
| UNDERCARRIAGE   | UPPER ROLLERS                                    |   | 2 each track (STD. Shoes)      |
|   | LOWER ROLLERS                                    |   | 10 each track                  |
|   | NUMBER OF SHOES<br>(LINKS PER SIDE)              |   | 51 each track (Triple Grouser) |
|   | TOTAL LENGTH OF TRACK                            | ft. in.                                   | 15' 2"                         |
| mm  |  | 4,625                                     |                                |
| ENVIRONMENT   | SOUND LEVEL (2000/14/EC)                         | dB(A)                                     | 103                            |
|   | CABIN SOUND LEVEL (ISO 6396)                     | dB(A)                                     | 71                             |
| SWING MECHANISM   | SWING SPEED                                      | rpm                                       | 0 - 10.1                       |
| DRIVE SYSTEM  | TRAVEL SPEED (FAST/SLOW)                         | mph                                       | 3.2 / 1.9                      |
|   |  | km / h.                                   | 5.2 / 3.1                      |
|   | DRAWBAR PULL                                     | lb.                                       | 47,619                         |
|   |  | kg  | 21,600                         |
|   | MAXIMUM GRADE                                    | %   | 70                             |
|   |  | °   | 35                             |

|                   | ITEMS                                 | UNIT    | STANDARD |
|-------------------|---------------------------------------|---------|----------|
| REFILL CAPACITIES | FUEL TANK                             | US gal. | 108.3    |
|                   |                                       | L       | 410      |
|                   | COOLING SYSTEM<br>(RADIATOR CAPACITY) | qt.     | 26.4     |
|                   |                                       | L       | 25       |
|                   | ENGINE OIL                            | qt.     | 28.5     |
|                   |                                       | L       | 27       |
|                   | SWING DRIVE                           | qt.     | 5.3      |
|                   |                                       | L       | 5        |
|                   | FINAL DRIVE (EACH SIDE)               | qt.     | 3.5      |
|                   |                                       | L       | 3.3      |
|                   | HYDRAULIC SYSTEM                      | US gal. | 108      |
|                   |                                       | L       | 410      |
| HYDRAULIC TANK    | US gal.                               | 63.4    |          |
|                   | L                                     | 240     |          |

## WEIGHT

|                                |   |                     |
|--------------------------------|---|---------------------|
| BOOM                           | 19' 4" (5.9 m)                              |                     |
| ARM                            | 9' 10" (3.0 m)                              |                     |
| BUCKET                         | 1.44 yd. <sup>3</sup> (1.1 m <sup>3</sup> ) |                     |
| SHOE WIDTH<br>(TRIPLE GROUSER) | OPERATING<br>WEIGHT                         | GROUND PRESSURE     |
| 23.6"<br>(600 mm)              | 54,233 lb.<br>(24,600 kg)                   | 7.11 psi (0.49 bar) |
| 27.6"<br>(700 mm)              | 54,894 lb.<br>(24,900 kg)                   | 6.11 psi (0.42 bar) |
| 31.5" STD.<br>(800 mm)         | 55,556 lb.<br>(25,200 kg)                   | 5.4 psi (0.37 bar)  |
| 35.4"<br>(900 mm)              | 56,217 lb.<br>(25,500 kg)                   | 4.83 psi (0.33 bar) |

## 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                  |
|-----------|----------|---|
| BOOM      | 2        | 5.1" x 3.5" x 4' 5"<br>(130 x 90 x 1,355 mm)  |
| ARM       | 1        | 5.5" x 3.9" x 5' 7"<br>(140 x 100 x 1,705 mm) |
| BUCKET    | 1        | 5.1" x 3.5" x 3' 7"<br>(130 x 90 x 1080 mm)   |

## BUCKET

| CAPACITY  |   | WIDTH                |                      | WEIGHT                | RECOMMENDATIONS   |                  |                        |                        |                   |
|---|---|----------------------|----------------------|-----------------------|-------------------|------------------|------------------------|------------------------|-------------------|
|   |   |                      |                      |                       | 17' 5" (5,300 mm) |                  | 19' 4" STD. (5,900 mm) |                        |                   |
| SAE, HEAPED                                     | CECE, HEAPED                                    | WITHOUT SIDE CUTTERS | WITH SIDE CUTTERS    |                       | 6' 7" (2,000 mm)  | 8' 2" (2,500 mm) | 8' 2" (2,500 mm)       | 9' 10" STD. (3,000 mm) | 11' 6" (3,500 mm) |
| 1.37 yd. <sup>3</sup><br>(1.05 m <sup>3</sup> ) | 1.20 yd. <sup>3</sup><br>(0.92 m <sup>3</sup> ) | 4' 3"<br>(1,308 mm)  | 4' 6"<br>(1,370 mm)  | 1,631 lb.<br>(740 kg) | A                 | A                | A                      | A                      | C                 |
| 1.44 yd. <sup>3</sup><br>(1.1 m <sup>3</sup> )  | 1.24 yd. <sup>3</sup><br>(0.95 m <sup>3</sup> ) | 4' 4"<br>(1,315 mm)  | 4' 6"<br>(1,375 mm)  | 1,819 lb.<br>(825 kg) | A                 | A                | A                      | B                      | -                 |
| 1.53 yd. <sup>3</sup><br>(1.17 m <sup>3</sup> ) | 1.31 yd. <sup>3</sup><br>(1.0 m <sup>3</sup> )  | 4' 8"<br>(1,428 mm)  | 4' 11"<br>(1,491 mm) | 1,753 lb.<br>(795 kg) | A                 | A                | B                      | C                      | -                 |
| 1.69 yd. <sup>3</sup><br>(1.28 m <sup>3</sup> ) | 1.44 yd. <sup>3</sup><br>(1.1 m <sup>3</sup> )  | 5' 1"<br>(1,542 mm)  | 5' 3"<br>(1,605 mm)  | 1,830 lb.<br>(830 kg) | A                 | B                | B                      | -                      | -                 |
| 1.83 yd. <sup>3</sup><br>(1.40 m <sup>3</sup> ) | 1.59 yd. <sup>3</sup><br>(1.22 m <sup>3</sup> ) | 5' 3"<br>(1,606 mm)  | 5' 6"<br>(1,666 mm)  | 2,161 lb.<br>(980 kg) | B                 | C                | C                      | -                      | -                 |

A. Suitable for materials with density of 3,370 lb./yd.<sup>3</sup> (2,000 kg•m<sup>3</sup>) or less

B. Suitable for materials with density of 2,700 lb./yd.<sup>3</sup> (1,600 kg•m<sup>3</sup>) or less

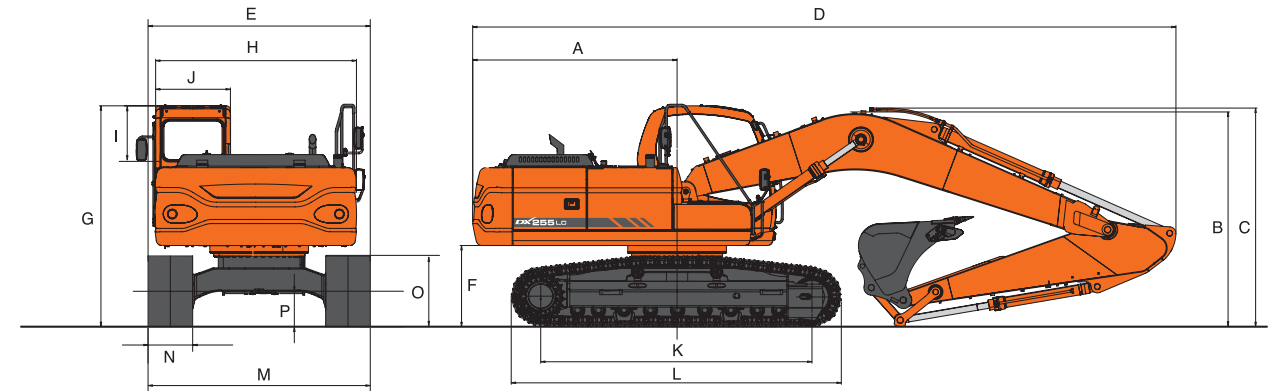
C. Suitable for materials with density of 1,850 lb./yd.<sup>3</sup> (1,100 kg•m<sup>3</sup>) or less

## DIGGING FORCE (ISO)

| BUCKET (PCSA) | 1.37 yd. <sup>3</sup><br>(1.05 m <sup>3</sup> ) | 1.44 yd. <sup>3</sup><br>(1.1 m <sup>3</sup> ) | 1.53 yd. <sup>3</sup><br>(1.17 m <sup>3</sup> ) | 1.69 yd. <sup>3</sup><br>(1.28 m <sup>3</sup> ) | 1.83 yd. <sup>3</sup><br>(1.40 m <sup>3</sup> ) |
|---------------|---|--|---|---|---|
|               | 41,005 lbf.                                     | 40,564 lbf.                                    | 41,005 lbf.                                     | 41,005 lbf.                                     | 40,564 lbf.                                     |
| DIGGING FORCE | 18,600 kgf.                                     | 18,400 kgf.                                    | 18,600 kgf.                                     | 18,600 kgf.                                     | 18,400 kgf.                                     |
|               | 182.6 kN  | 180.6 kN                                       | 182.6 kN  | 182.6 kN  | 180.6 kN  |

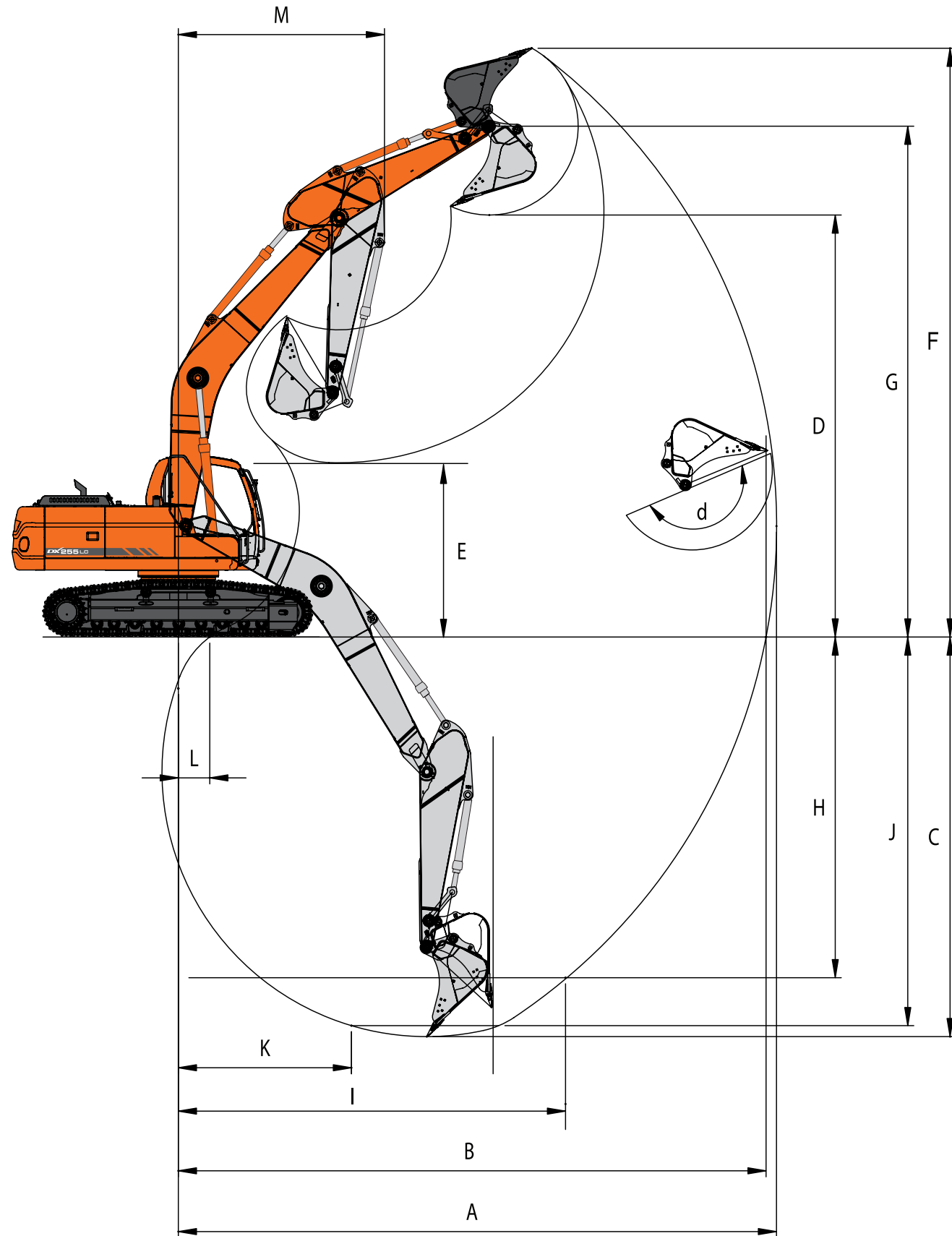
| ARM           | 6' 7"<br>(2,000 mm) | 8' 2"<br>(2,500 mm) | 9' 10"<br>(3,000 mm) | 11' 6"<br>(3,500 mm) |
|---------------|---------------------|---------------------|----------------------|----------------------|
|               | 39,021 lbf.         | 32,187 lbf.         | 27,337 lbf.          | 24,471 lbf.          |
| DIGGING FORCE | 17,700 kgf.         | 14,600 kgf.         | 12,400 kgf.          | 11,100 kgf.          |
|               | 173.7 kN            | 143.3 kN            | 121.7 kN             | 109 kN               |

## DIMENSIONS



| BOOM TYPE                |   | 19' 4" STD. (5,900 mm)                       |  |  | 17' 5" (5,300 mm)                           |  |
|--------------------------|---|--|--|--|---|--|
| ARM TYPE                 |   | 8' 2" (2,500 mm)                             | 9' 10" STD. (3,000 mm)                           | 11' 6" (3,500 mm)                            | 6' 7" (2,000 mm)                            | 8' 2" (2,500 mm)                             |
| BUCKET TYPE (SAE)        |   | 1.53 yd. <sup>3</sup> (1.17 m <sup>3</sup> ) | 1.44 yd. <sup>3</sup> (1.1 m <sup>3</sup> ) STD. | 1.22 yd. <sup>3</sup> (0.93 m <sup>3</sup> ) | 1.83 yd. <sup>3</sup> (1.4 m <sup>3</sup> ) | 1.67 yd. <sup>3</sup> (1.28 m <sup>3</sup> ) |
| TAIL SWING RADIUS        | A | →  | 9' 10" (2,995 mm)                                | ←  | ←   | ←  |
| SHIPPING HEIGHT (BOOM)   | B | 9' 11" (3,020 mm)                            | 9' 9" (2,960 mm)                                 | 10' 3" (3,130 mm)                            | 10' 8" (3,260 mm)                           | 9' 11" (3,030 mm)                            |
| SHIPPING HEIGHT (HOSE)   | C | 10' 5" (3,180 mm)                            | 10' 2" (3,100 mm)                                | 10' 10" (3,290 mm)                           | 11' 2" (3,410 mm)                           | 10' 5" (3,180 mm)                            |
| SHIPPING LENGTH          | D | 33' 1" (10,100 mm)                           | 33' (10,055 mm)                                  | 33' 1" (10,080 mm)                           | 31' 4" (9,555 mm)                           | 31' 1" (9,470 mm)                            |
| SHIPPING WIDTH           | E | →  | 11' 2" (3,400 mm)                                | 11' 6" (3,500 mm)                            | 11' 2" (3,400 mm)                           | ←  |
| C/WEIGHT CLEARANCE       | F | →  | 3' 8" (1,110 mm)                                 | ←  | ←   | ←  |
| HEIGHT OVER CABIN        | G | →  | 9' 9" (2,970 mm)                                 | ←  | ←   | ←  |
| HOUSE WIDTH              | H | →  | 8' 11" (2,710 mm)                                | ←  | ←   | ←  |
| CABIN HEIGHT ABOVE HOUSE | I | →  | 2' 9" (845 mm)                                   | ←  | ←   | ←  |
| CABIN WIDTH              | J | →  | 3' 4" (1,010 mm)                                 | ←  | ←   | ←  |
| TUMBLER DISTANCE         | K | →  | 12' 7" (3,835 mm)                                | ←  | ←   | ←  |
| TRACK LENGTH             | L | →  | 15' 2" (4,625 mm)                                | ←  | ←   | ←  |
| UNDERCARRIAGE WIDTH      | M | →  | 11' 2" (3,400 mm)                                | 11' 6" (3,500 mm)                            | 11' 2" (3,400 mm)                           | ←  |
| SHOE WIDTH               | N | →  | 2' 7" (800 mm)                                   | 2' 11" (900 mm)                              | 2' 7" (800 mm)                              | ←  |
| TRACK HEIGHT             | O | →  | 3' 3" (995 mm)                                   | ←  | ←   | ←  |
| CAR BODY CLEARANCE       | P | →  | 1' 6" (450 mm)                                   | ←  | ←   | ←  |

## WORKING RANGE



| BOOM TYPE                   |   | 19' 4" STD.<br>(5,900 mm)                       |   |   | 17' 5"<br>(5,300 mm)                           |   |
|-----------------------------|---|---|---|---|--|---|
| ARM TYPE                    |   | 8' 2"<br>(2,500 mm)                             | 9' 10" STD.<br>(3,000 mm)                           | 11' 6"<br>(3,500 mm)                            | 6' 7"<br>(2,000 mm)                            | 8' 2"<br>(2,500 mm)                             |
| BUCKET TYPE (SAE)           |   | 1.53 yd. <sup>3</sup><br>(1.17 m <sup>3</sup> ) | 1.44 yd. <sup>3</sup><br>(1.1 m <sup>3</sup> ) STD. | 1.22 yd. <sup>3</sup><br>(0.93 m <sup>3</sup> ) | 1.83 yd. <sup>3</sup><br>(1.4 m <sup>3</sup> ) | 1.67 yd. <sup>3</sup><br>(1.28 m <sup>3</sup> ) |
| MAX. DIGGING REACH          | A | 31' 10"<br>(9,710 mm)                           | 33' 5"<br>(10,195 mm)                               | 35'<br>(10,665 mm)                              | 28' 7"<br>(8,700 mm)                           | 29' 9"<br>(9,070 mm)                            |
| MAX. DIGGING REACH (GROUND) | B | 31' 3"<br>(9,515 mm)                            | 32' 10"<br>(10,010 mm)                              | 34' 5"<br>(10,488 mm)                           | 27' 10"<br>(8,481 mm)                          | 29' 1"<br>(8,859 mm)                            |
| MAX. DIGGING DEPTH          | C | 20' 9"<br>(6,315 mm)                            | 22' 4"<br>(6,815 mm)                                | 24'<br>(7,315 mm)                               | 17' 8"<br>(5,380 mm)                           | 19' 3"<br>(5,880 mm)                            |
| MAX. LOADING HEIGHT         | D | 21' 10"<br>(6,645 mm)                           | 22' 9"<br>(6,925 mm)                                | 23' 6"<br>(7,160 mm)                            | 19' 8"<br>(5,990 mm)                           | 19' 9"<br>(6,010 mm)                            |
| MIN. LOADING HEIGHT         | E | 9' 11"<br>(3,030 mm)                            | 8' 4"<br>(2,530 mm)                                 | 6' 7"<br>(2,010 mm)                             | 10'<br>(3,055 mm)                              | 8' 3"<br>(2,513 mm)                             |
| MAX. DIGGING HEIGHT         | F | 30' 6"<br>(9,300 mm)                            | 31' 6"<br>(9,605 mm)                                | 32' 4"<br>(9,845 mm)                            | 28' 6"<br>(8,685 mm)                           | 28' 3"<br>(8,610 mm)                            |
| MAX. BUCKET PIN HEIGHT      | G | 26' 8"<br>(8,130 mm)                            | 27' 7"<br>(8,410 mm)                                | 28' 4"<br>(8,645 mm)                            | 24' 6"<br>(7,470 mm)                           | 24' 7"<br>(7,490 mm)                            |
| MAX. VERTICAL WALL DEPTH    | H | 15' 1"<br>(4,595 mm)                            | 17' 2"<br>(5,225 mm)                                | 18' 8"<br>(5,690 mm)                            | 13' 2"<br>(4,015 mm)                           | 13' 3"<br>(4,035 mm)                            |
| MAX. RADIUS VERTICAL        | I | 23' 6"<br>(7,165 mm)                            | 23' 9"<br>(7,230 mm)                                | 24' 4"<br>(7,425 mm)                            | 20' 9"<br>(6,325 mm)                           | 22' 4"<br>(6,795 mm)                            |
| MAX. DEPTH TO 8' LINE       | J | 20'<br>(6,100 mm)                               | 21' 9"<br>(6,630 mm)                                | 23' 5"<br>(7,148 mm)                            | 16' 10"<br>(5,140 mm)                          | 18' 6"<br>(5,630 mm)                            |
| MIN. RADIUS 8' LINE         | K | 9' 8"<br>(2,950 mm)                             | 9' 10"<br>(2,995 mm)                                | 9' 11"<br>(3,035 mm)                            | 8' 5"<br>(2,553 mm)                            | 8' 1"<br>(2,470 mm)                             |
| MIN. DIGGING REACH          | L | 2' 3"<br>(685 mm)                               | 2'<br>(600 mm)                                      | -7"<br>(-190 mm)                                | 5' 11"<br>(1,810 mm)                           | 1' 6"<br>(445 mm)                               |
| MIN. SWING RADIUS           | M | 12' 9"<br>(3,885 mm)                            | 12' 7"<br>(3,845 mm)                                | 12' 8"<br>(3,865 mm)                            | 11' 6"<br>(3,510 mm)                           | 11' 9"<br>(3,580 mm)                            |
| BUCKET ANGLE (DEG)          | d | 175°  | 175°  | 175°  | 175°   | 175°  |

## STANDARD EQUIPMENT

### ENGINE:

- DOOSAN DL06:
  - Turbo Charged and After Cooled
- Electronically Controlled Common Rail Direct Injected
- 359 cu.in., 6 Cylinder
- 166 SAE Net Flywheel Horsepower @ 1,900 rpm
- Auto Idle System
- Equipped with the Fuel Pre-Filter with Water Separator & Built in Priming Pump
- Radiator Reserve Tank
- Large Capacity Double Element Air Cleaner with Evacuator
- Electronic Engine Speed Control
- Engine Overheat and Low Oil Pressure Prevention System

### HYDRAULIC SYSTEM:

- Pilot Operated Control Valves, (9) Spools
- Main Pump, Tandem Variable Axial Piston Type
  - Pressure Setting 4,978 psi
- Pilot Circuit: Gear Type Pump
- Swing Motor, Axial Piston Type
- Swing Speed Control up to 10.1 rpm
- Spring Set, Hydraulic-Released Brakes
- Travel Motor, Axial Piston Type, Automatic 2-Speed Control
- Travel Speed (High / Low): 3.2 mph / 1.9 mph
- In-Shoe Design, Oil Disc Parking Brake
- Cross Sensing Pump Control for Fuel Saving
- Two Operating Modes, Two Power Modes
- Button Control of Flow in Auxiliary Equipment Circuits
- Computer-Aided Pump Power Control
- e-EPOS (Electronic Power Optimizing System) Controller

### CAB:

- Steel, All Weather Sound Suppressed Type
- Fully Automatically Controlled Air Conditioner with Heat
- Multi-Function Color LCD Monitor Panel
- Cigarette Lighter with Ashtray
- Door Locks
- Front Windshield Wiper with Washer

### Radio:

- AM/FM Stereo with Cassette
- Remote Radio On / Off Switch, Control Volume, Channel Selection

### Switches:

- Auxiliary Mode Switch
- Engine Emergency Stop Switch
- Work Light Switch
- Travel Speed Selector Switch
- Breaker, Power-Up, Shear Switch

### Glass Antenna

### Safety Glass, Tinted

### Safety Lock Lever

### Seat:

- Suspension with Seat Belt (2" Wide)
- Reclining, Height Adjustable
- Adjustable Arm Rests
- Sliding Control Console
- Weight Adjustment Knob

### Skylight

### Pull-Up Type Front Window

### Removable Lower Front Window

### Sliding Side Windows

### Front Window Air Defroster

### Travel Pedals with Hand Levers

### Emergency Breakout Tool

### Lunch Box with Hot & Cool Air

### 12V Power Socket

### Joystick Lever with 3 Switches

### Cup Holder

### Room Light

### Serial Communication Port for Laptop PC Interface (DMS, Edoctor)

### Viscous Cab Mounts

### ELECTRICAL:

#### Alternator:

- 60 Amp

#### Batteries:

- (2) 12 V, 100 Amp Hrs 750 CCA ea

#### Starter:

- 24V, 4.5 kW

#### Lights:

- Halogen Working Light (2) Machine, (2) Boom

#### Electric Horn

#### Hour Meter

#### Alarm Buzzer for:

- Engine Oil Pressure
- Coolant Temperature

#### Electronic Monitor for:

- Engine Coolant Temperature Gauge
- Fuel Gauge
- Hydraulic Oil Temperature Gauge

#### Multi-Function Display for:

- Engine rpm
- Battery Voltage
- Front and Rear Hydraulic Pump Pressure
- Hydraulic Oil Overheating Warning
- Fuel Shortage Warning
- Air Cleaner Clogging Warning
- Pilot Filter Clogging Warning
- Return Filter Clogging Warning
- Digital Clock
- Engine Check Warning Light
- Engine Oil Pressure Warning Light
- Charge Warning Light
- Preheat Indicator Light
- Coolant Temperature Warning Light
- Work Light Indicator Light

#### Operation Modes for:

- Power Mode Select Button
- Flow Rate Control
- Auto Idle Select Button
- 4 Display Selection Buttons
- Trenching Mode Select Button

### UNDERCARRIAGE:

#### Track Guards and Chains with Adjusters

#### Track Rollers:

- (2) Upper, (10) Lower Each Side

#### Triple Grouser Shoes:

- 51 Each Side; 800 mm Width

### OTHER STANDARD EQUIPMENT:

#### Joystick Pattern Change Valve

#### Counterweight:

- 10,362 lb. (4,700 kg)

#### Sealed Pins, Boom, Arm and Bucket Linkages

#### Swing Mechanism, Internal Gear and Pinion

#### Integrated Track Spring and Idler

#### Centralized Lube Points

#### Large Handrail

#### Punched Metal Anti-slip Plates

#### Ultra-Hard Wear-Resistant Disc at the Bucket Pivot

#### Engine Restart Prevention System

#### Self-Diagnostic System

#### Manuals:

- Parts and Operator's

#### GPS with 1 Year Subscription



## LIFTING CAPACITY

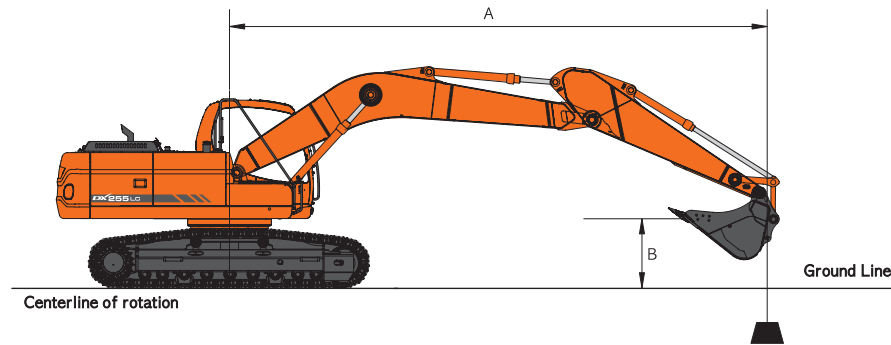
Boom: 17'5" (5,300 mm)

Arm: 6'7" (2,000 mm)

Bucket: SAE 1.83 yd.<sup>3</sup> (1.4 m<sup>3</sup>)

Shoe: 31.5" (800 mm)

Counterweight: 5.18 ton (4.7 metric ton)



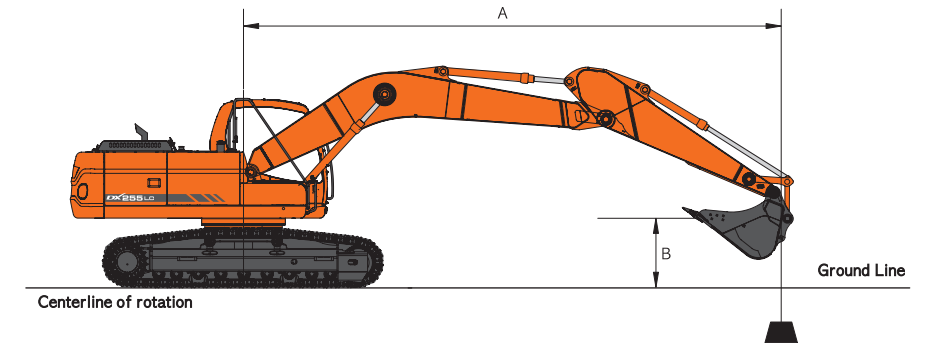
Boom: 17'5" (5,300 mm)

Arm: 8'2" (2,500 mm)

Bucket: SAE 1.69 yd.<sup>3</sup> (1.28 m<sup>3</sup>)

Shoe: 31.5" (800 mm)

Counterweight: 5.18 ton (4.7 metric ton)



Feet Unit: 1,000 lb.

| B (ft.) \ A (ft.) | 10     |        | 15     |        | 20     |       | MAX. REACH |       | A (ft.) |
|-------------------|--------|--------|--------|--------|--------|-------|------------|-------|---------|
|                   |        |        |        |        |        |       |            |       |         |
| 20                |        |        |        |        |        |       | 9.83*      | 9.83* | 19.62   |
| 15                |        |        | 17.99* | 17.99* | 15.59* | 13.04 | 9.67*      | 9.67* | 22.33   |
| 10                | 21.07* | 21.07* | 22.19* | 19.72  | 17.23* | 12.51 | 10.14*     | 9.45  | 23.71   |
| 5                 |        |        | 25.86* | 18.56  | 18.51  | 11.98 | 11.29*     | 9.05  | 23.97   |
| 0 (GROUND)        | 25.66* | 25.66* | 27.26* | 18.02  | 18.15  | 11.66 | 13.50*     | 9.39  | 23.16   |
| -5                | 37.42* | 36.68  | 26.19* | 18.01  | 18.15  | 11.66 | 16.68      | 10.78 | 21.14   |
| -10               | 30.68* | 30.68* | 21.86* | 18.47  |        |       | 17.83*     | 14.65 | 17.50   |

Feet Unit: 1,000 lb.

| B (ft.) \ A (ft.) | 5      |        | 10     |        | 15     |        | 20     |       | MAX. REACH |        | A (ft.) |
|-------------------|--------|--------|--------|--------|--------|--------|--------|-------|------------|--------|---------|
|                   |        |        |        |        |        |        |        |       |            |        |         |
| 20                |        |        |        |        |        |        | 14.14* | 13.28 | 12.32*     | 12.32* | 20.67   |
| 15                |        |        |        |        | 17.11* | 17.11* | 14.90* | 13.12 | 12.24*     | 9.97   | 23.27   |
| 10                |        |        |        |        | 21.50* | 20.16  | 16.75* | 12.64 | 12.86*     | 8.87   | 24.58   |
| 5                 |        |        |        |        | 25.50* | 18.96  | 18.67* | 12.13 | 13.04      | 8.52   | 24.84   |
| 0 (GROUND)        |        |        | 25.31* | 25.31* | 27.36* | 18.33  | 18.3   | 11.78 | 13.6       | 8.85   | 24.05   |
| -5                | 26.00* | 26.00* | 39.08* | 36.95  | 26.76* | 18.23  | 18.21  | 11.7  | 15.53      | 10.07  | 22.13   |
| -10               |        |        | 32.97* | 32.97* | 23.16* | 18.57  |        |       | 17.39*     | 13.3   | 18.68   |

Metric Unit: 1,000 kg

| B (m) \ A (m) | 2      |        | 3      |        | 4      |        | 5      |       | 6     |      | 7    |      | MAX. REACH |       | A (m) |
|---------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|------|------|------------|-------|-------|
|               |        |        |        |        |        |        |        |       |       |      |      |      |            |       |       |
| 7             |        |        |        |        |        |        | 7.32*  | 7.32* |       |      |      |      | 7.35*      | 7.35* | 5.06  |
| 6             |        |        |        |        |        |        | 7.19*  | 7.19* |       |      |      |      | 7.12*      | 6.14  | 5.92  |
| 5             |        |        |        |        |        |        | 7.71*  | 7.71* | 7.16* | 6.01 |      |      | 7.07*      | 5.16  | 6.51  |
| 4             |        |        |        |        | 10.41* | 10.41* | 8.57*  | 8.05  | 7.57* | 5.92 |      |      | 7.01       | 4.61  | 6.90  |
| 3             |        |        |        |        |        |        | 9.58*  | 7.77  | 8.12* | 5.79 | 6.78 | 4.45 | 6.56       | 4.3   | 7.13  |
| 2             |        |        |        |        |        |        | 10.49* | 7.51  | 8.66* | 5.65 | 6.72 | 4.39 | 6.38       | 4.16  | 7.21  |
| 1             |        |        |        |        |        |        | 11.09* | 7.33  | 8.59  | 5.53 | 6.66 | 4.33 | 6.42       | 4.18  | 7.15  |
| 0 (GROUND)    |        |        |        |        | 14.37* | 10.28  | 11.29* | 7.23  | 8.51  | 5.47 |      |      | 6.71       | 4.36  | 6.95  |
| -1            |        |        | 14.72* | 14.72* | 13.86* | 10.32  | 11.07* | 7.21  | 8.5   | 5.46 |      |      | 7.33       | 4.75  | 6.59  |
| -2            | 16.25* | 16.25* | 15.86* | 15.86* | 12.82* | 10.43  | 10.30* | 7.28  | 8.04* | 5.53 |      |      | 7.94*      | 5.48  | 6.04  |
| -3            |        |        | 13.53* | 13.53* | 10.98* | 10.64  | 8.53*  | 7.45  |       |      |      |      | 7.85*      | 6.96  | 5.24  |

Metric Unit: 1,000 kg

| B (m) \ A (m) | 2      |        | 3      |        | 4      |        | 5      |        | 6      |       | 7     |      | MAX. REACH |       | A (m) |       |      |
|---------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|------|------------|-------|-------|-------|------|
|               |        |        |        |        |        |        |        |        |        |       |       |      |            |       |       |       |      |
| 7             |        |        |        |        |        |        |        |        |        |       |       |      | 5.83*      | 5.83* | 5.58  |       |      |
| 6             |        |        |        |        |        |        |        |        | 6.40*  | 6.21  |       |      | 5.58*      | 5.55  | 6.36  |       |      |
| 5             |        |        |        |        |        |        | 7.04*  | 7.04*  | 6.62*  | 6.16  |       |      | 5.53*      | 4.76  | 6.91  |       |      |
| 4             |        |        |        |        | 12.26* | 12.26* | 9.39*  | 9.39*  | 7.94*  | 7.94* | 7.10* | 6.04 | 6.63*      | 4.61  | 5.62* | 4.29  | 7.28 |
| 3             |        |        |        |        |        |        | 11.32* | 11.32* | 9.01*  | 7.9   | 7.72* | 5.88 | 6.89       | 4.54  | 5.85* | 4.01  | 7.50 |
| 2             |        |        |        |        |        |        | 13.02* | 10.8   | 10.03* | 7.61  | 8.34* | 5.71 | 6.79       | 4.45  | 5.93  | 3.88  | 7.58 |
| 1             |        |        |        |        |        |        | 14.07* | 10.45  | 10.80* | 7.38  | 8.63  | 5.57 | 6.7        | 4.37  | 5.95  | 3.88  | 7.52 |
| 0 (GROUND)    |        |        |        |        | 11.06* | 11.06* | 14.43* | 10.29  | 11.21* | 7.24  | 8.52  | 5.47 | 6.64       | 4.32  | 6.17  | 4.01  | 7.33 |
| -1            | 10.36* | 10.36* | 15.80* | 15.80* | 14.22* | 10.25  | 11.22* | 7.18   | 8.47   | 5.43  |       |      |            |       | 6.65  | 4.32  | 6.99 |
| -2            | 15.52* | 15.52* | 17.27* | 17.27* | 13.48* | 10.32  | 10.74* | 7.2    | 8.5    | 5.46  |       |      |            |       | 7.54  | 4.88  | 6.47 |
| -3            | 19.76* | 19.7*  | 15.25* | 15.25* | 12.06* | 10.47  | 9.59*  | 7.31   |        |       |       |      |            |       | 7.88* | 5.96  | 5.73 |
| -4            |        |        | 12.04* | 12.04* | 9.49*  | 9.49*  |        |        |        |       |       |      |            |       | 7.76* | 7.76* | 4.67 |

1. LOAD POINT IS THE END OF THE ARM.  
 2. CAPACITIES MARKED WITH AN ASTERISK (\*) ARE LIMITED BY HYDRAULIC CAPACITIES.  
 3. LIFT CAPACITIES SHOWN DO NOT EXCEED 75% OF MINIMUM TIPPING LOADS OR 87% OF HYDRAULIC CAPACITIES.

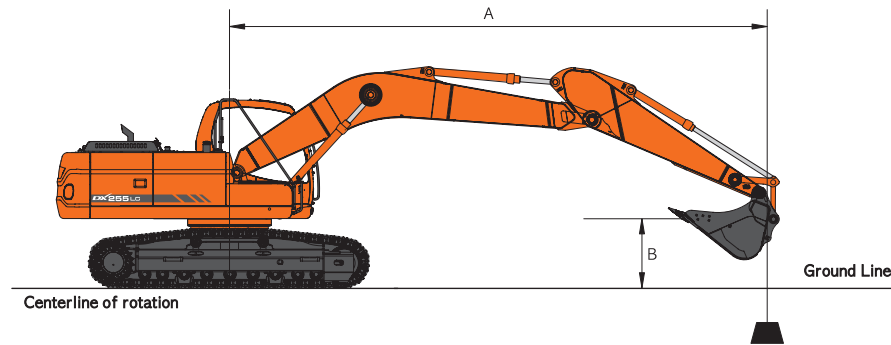
: Rating Over Front  
: Rating Over Side or 360 degree

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: Rating Over Front  
: Rating Over Side or 360 degree

## LIFTING CAPACITY

**Boom: 19'4" (5,900 mm)**  
**Arm: 9'10" (3,000 mm)**  
**Bucket: SAE 1.44 yd.<sup>3</sup> (1.1 m<sup>3</sup>)**  
**Shoe: 31.5" (800 mm)**  
**Counterweight: 5.18 ton (4.7 metric ton)**



Unit: 1,000 lb.

| Feet<br>B (ft.) | A (ft.) |        |        |        |        |        |        |        |        |       |            |       |         |       |       |
|-----------------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|------------|-------|---------|-------|-------|
|                 | 5       |        | 10     |        | 15     |        | 20     |        | 25     |       | MAX. REACH |       | A (ft.) |       |       |
|                 |         |        |        |        |        |        |        |        |        |       |            |       |         |       |       |
| 25              |         |        |        |        |        |        |        |        |        |       |            |       | 7.52*   | 7.52* | 22.16 |
| 20              |         |        |        |        |        |        |        |        | 8.47*  | 8.47* | 7.21*      | 7.21* |         |       | 25.60 |
| 15              |         |        |        |        |        |        | 12.30* | 12.30* | 11.34* | 8.98  | 7.31*      | 7.31* |         |       | 27.74 |
| 10              |         |        | 29.84* | 29.84* | 18.67* | 18.67* | 14.47* | 12.5   | 12.39* | 8.6   | 7.73*      | 6.63  |         |       | 28.86 |
| 5               |         |        | 19.36* | 19.36* | 23.06* | 18.24  | 16.72* | 11.71  | 12.68  | 8.2   | 8.54*      | 6.34  |         |       | 29.07 |
| 0 (GROUND)      |         |        | 22.13* | 22.13* | 25.66* | 17.26  | 17.62  | 11.13  | 12.34  | 7.88  | 9.92*      | 6.43  |         |       | 28.41 |
| -5              | 20.67*  | 20.67* | 29.81* | 29.81* | 26.18* | 16.93  | 17.31  | 10.85  | 12.18  | 7.74  | 10.96      | 6.97  |         |       | 26.80 |
| -10             | 29.19*  | 29.19* | 35.98* | 34.94  | 24.74* | 17.04  | 17.34  | 10.88  |        |       | 13.03      | 8.3   |         |       | 24.05 |
| -15             |         |        | 29.33* | 29.33* | 20.74* | 17.56  |        |        |        |       | 14.98*     | 11.61 |         |       | 19.65 |

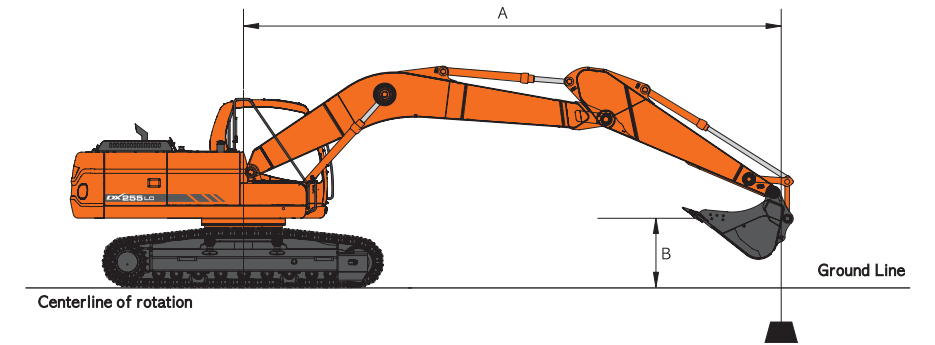
Unit: 1,000 kg

| Metric<br>B (m) | A (m)  |        |        |        |        |        |        |       |       |       |       |      |       |       |            |       |
|-----------------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|------|-------|-------|------------|-------|
|                 | 2      |        | 3      |        | 4      |        | 5      |       | 6     |       | 7     |      | 8     |       | MAX. REACH | A (m) |
|                 |        |        |        |        |        |        |        |       |       |       |       |      |       |       |            |       |
| 8               |        |        |        |        |        |        |        |       |       |       |       |      |       | 4.80* | 4.80*      | 6.18  |
| 7               |        |        |        |        |        |        |        |       | 4.07* | 4.07* |       |      |       | 3.90* | 3.90*      | 7.04  |
| 6               |        |        |        |        |        |        |        |       | 5.35* | 5.35* | 5.24* | 4.71 |       | 3.78* | 3.78*      | 7.67  |
| 5               |        |        |        |        |        |        |        |       | 5.79* | 5.79* | 5.46* | 4.66 | 4.49* | 3.6   | 3.76*      | 8.14  |
| 4               |        |        | 12.01* | 12.01* | 8.89*  | 8.89*  | 7.33*  | 7.33* | 6.41* | 5.96  | 5.82* | 4.56 | 5.45  | 3.56  | 3.82*      | 8.45  |
| 3               |        |        |        |        | 10.88* | 10.88* | 8.46*  | 7.72  | 7.11* | 5.75  | 6.26* | 4.44 | 5.38  | 3.5   | 3.94*      | 8.64  |
| 2               |        |        |        |        | 12.59* | 10.44  | 9.52*  | 7.37  | 7.79* | 5.54  | 6.65  | 4.31 | 5.31  | 3.42  | 4.15*      | 8.71  |
| 1               |        |        |        |        | 13.62* | 10.05  | 10.33* | 7.1   | 8.35* | 5.36  | 6.53  | 4.19 | 5.23  | 3.36  | 4.46*      | 8.66  |
| 0 (GROUND)      |        |        | 7.33*  | 7.33*  | 14.00* | 9.86   | 10.79* | 6.93  | 8.27  | 5.23  | 6.43  | 4.11 | 5.18  | 3.31  | 4.7        | 8.49  |
| -1              | 7.19*  | 7.19*  | 10.51* | 10.51* | 13.90* | 9.82   | 10.91* | 6.85  | 8.19  | 5.16  | 6.38  | 4.06 | 5.16  | 3.29  | 4.96       | 8.20  |
| -2              | 10.72* | 10.72* | 14.19* | 14.19* | 13.41* | 9.86   | 10.69* | 6.85  | 8.18  | 5.15  | 6.38  | 4.06 |       |       | 5.43       | 7.76  |
| -3              | 14.47* | 14.47* | 15.84* | 15.84* | 12.50* | 9.97   | 10.07* | 6.91  | 8.21* | 5.19  | 6.44  | 4.12 |       |       | 6.22       | 7.16  |
| -4              | 17.91* | 17.91* | 13.80* | 13.80* | 11.03* | 10.17  | 8.90*  | 7.05  | 7.06* | 5.32  |       |      |       |       | 6.35*      | 6.35  |
| -5              |        |        | 10.72* | 10.72* | 8.62*  | 8.62*  | 6.63*  | 6.63* |       |       |       |      |       |       | 6.13*      | 5.22  |

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Rating Over Front  
 Rating Over Side or 360 degree

**Boom: 19'4" (5,900 mm)**  
**Arm: 11'6" (3,500 mm)**  
**Bucket: SAE 1.20 yd.<sup>3</sup> (.92 m<sup>3</sup>)**  
**Shoe: 35.43" (900 mm)**  
**Counterweight: 5.18 ton (4.7 metric ton)**



Unit: 1,000 lb.

| Feet<br>B (ft.) | A (ft.) |        |        |        |        |       |        |       |       |      |    |  |            |        |         |        |       |
|-----------------|---------|--------|--------|--------|--------|-------|--------|-------|-------|------|----|--|------------|--------|---------|--------|-------|
|                 | 5       |        | 10     |        | 15     |       | 20     |       | 25    |      | 30 |  | MAX. REACH |        | A (ft.) |        |       |
|                 |         |        |        |        |        |       |        |       |       |      |    |  |            |        |         |        |       |
| 25              |         |        |        |        |        |       |        |       |       |      |    |  |            |        | 6.59*   | 6.59*  | 23.87 |
| 20              |         |        |        |        |        |       |        |       |       |      |    |  | 9.21*      | 9.21*  | 6.31*   | 6.31*  | 27.10 |
| 15              |         |        |        |        |        |       |        |       |       |      |    |  | 11.53*     | 11.53* | 10.80*  | 9.35   | 29.13 |
| 10              |         |        |        |        |        |       |        |       |       |      |    |  | 26.31*     | 26.31* | 17.36*  | 17.36* | 30.19 |
| 5               |         |        |        |        |        |       |        |       |       |      |    |  | 23.75*     | 23.75* | 22.07*  | 18.86  | 30.39 |
| 0 (GROUND)      |         |        |        |        |        |       |        |       |       |      |    |  | 22.58*     | 22.58* | 25.21*  | 17.71  | 29.75 |
| -5              | 19.01*  | 19.01* | 28.29* | 28.29* | 26.29* | 17.22 | 17.61  | 11.08 | 12.41 | 7.92 |    |  |            |        | 10.04*  | 6.6    | 28.23 |
| -10             | 26.41*  | 26.41* | 37.34* | 35.1   | 25.43* | 17.21 | 17.55  | 11.03 | 12.44 | 7.94 |    |  |            |        | 12      | 7.67   | 25.62 |
| -15             | 35.54*  | 35.54* | 31.96* | 31.96* | 22.24* | 17.61 | 16.08* | 11.32 |       |      |    |  |            |        | 14.34*  | 10.16  | 21.57 |
| -20             |         |        |        |        |        |       |        |       |       |      |    |  |            |        | 14.55*  | 14.55* | 14.92 |

Unit: 1,000 kg

| Metric<br>B (m) | A (m)  |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       |            |       |      |
|-----------------|--------|--------|--------|--------|--------|--------|--------|------|-------|------|------|------|------|------|---|-------|------------|-------|------|
|                 | 2      |        | 3      |        | 4      |        | 5      |      | 6     |      | 7    |      | 8    |      | 9 |       | MAX. REACH | A (m) |      |
|                 |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       |            |       |      |
| 8               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 3.45*      | 3.45* | 6.83 |
| 7               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 4.70*      | 4.70* | 7.61 |
| 6               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 4.86*      | 4.86* | 8.21 |
| 5               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 5.36*      | 5.36* | 8.64 |
| 4               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 6.72*      | 6.72* | 8.93 |
| 3               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 9.89*      | 9.89* | 9.11 |
| 2               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 11.78*     | 10.85 | 9.18 |
| 1               |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 13.13*     | 10.35 | 9.13 |
| 0 (GROUND)      |        |        |        |        |        |        |        |      |       |      |      |      |      |      |   |       | 10.35      | 9.98* | 8.97 |
| -1              | 7.18*  | 7.18*  | 10.30* | 10.30* | 14.02* | 9.94   | 10.91* | 6.97 | 8.5   | 5.27 | 6.64 | 4.16 | 5.38 | 3.38 |   | 4.40* | 2.96       | 8.70  |      |
| -2              | 9.84*  | 9.84*  | 13.11* | 13.11* | 13.77* | 9.93   | 10.87* | 6.93 | 8.45  | 5.23 | 6.61 | 4.13 | 5.37 | 3.37 |   | 5.04* | 3.2        | 8.29  |      |
| -3              | 12.81* | 12.81* | 16.68* | 16.68* | 13.10* | 10     | 10.46* | 6.95 | 8.47  | 5.24 | 6.63 | 4.16 |      |      |   | 5.71  | 3.6        | 7.73  |      |
| -4              | 16.44* | 16.44* | 15.24* | 15.24* | 11.93* | 10.15  | 9.60*  | 7.05 | 7.79* | 5.33 |      |      |      |      |   | 6.12* | 4.27       | 6.98  |      |
| -5              | 16.71* | 16.71* | 12.66* | 12.66* | 10.04* | 10.04* | 8.01*  | 7.24 |       |      |      |      |      |      |   | 6.10* | 5.56       | 5.97  |      |

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Rating Over Front  
 Rating Over Side or 360 degree





OUTPUT DATE 2010-05-18

BRO-DX255LC-TD-2010-05-18

For more information, call 1.888.323.9661,  
E-mail [InfoNow@dhiac.com](mailto:InfoNow@dhiac.com) or visit [www.infracore.com](http://www.infracore.com)



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