

## DX225LCA





# NEWLY ADDED FEATURE





#### **7 INCH MONITOR**

- New, user-friendly LCD color monitor with full access to machine settings and maintenance data.
- Operator can see rear view through new monitor (If customer selects rear view camera option)

**ADVANCED FRONT BUSH** 

greasing & Trap foreign object

& enhanced anti-seizure property - 30% longer life time than competitors

**ADVANCED H-CLASS BUCKET** 

member part

- Doosan new H-class bucket has the best strength of steel & the optimized design - Add side cutter / add chamfer and inner plate at

- Increase bucket solidity and change casting type

- EM bushing (Enhanced Macro-surface) - Pocket & Dimple surface pattern : Optimized

- Wear resistant solid lubricant coating : Noise free



#### **TROPICAL HYDRAULIC OIL (ISO VG 68)**

- Maintain best performance of your machine by keeping optimum viscosity in tropical area.





#### HEAVY-DUTY FRONT

- Overall reinforcement of steel plate by



#### **ADVANCED HD CABIN (OPTIONAL)**

- ROPS, FOPS optional
- The latest interior
- (MP3, Joystick, Air suspension seat, etc.)



- Install rotor type pre-cleaner (Donaldson Top Spin 5"). So filtering efficiency 20% increased



#### WATER SEPARATOR

- Fuel water separator filters water in fuel and enhance engine's durability and reduce quality problem caused by water in fuel (Extra Filter + Pre Filter + Main Filter)





#### **ADVANCED UNDERCARRIAGE**

Strengthen Sprocket structure and tooth

- Structure to prevent debris



# PERFORMANCE & PRODUCTIVITY



The performance of the DX225LCA has a direct effect on its productivity. Its new improved engine and new EPOS™ controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the DX225LCA even more

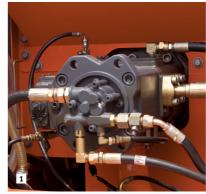


#### **DOOSAN ENGINE(DB58TIS)**

Doosan product gives high performance through in-house engine

Doosan engine(In-house) perfectly harmonized with the hydraulic system and provides strong power. Mechanical engine provides high resistance to moisture, dust, and bad fuel quality. The best engine power in the industry(148HP) provides stable working speed even in the heavy workload situation.









#### **1** HYDRAULIC PUMP

The Main pump has a capacity of 2x206.5l/min reducing cycle time while a high capacity gear pump improves pilot line efficiency.

#### **2 SWING DRIVE**

Shocks during rotation are minimized, while increased torque is available to ensure rapid cycles.

#### **II TRAVEL DEVICE**

In house travel device provides simple internal structure and increases efficiency of the performance. Thicker sprocket minimizes incoming debris and provides higher durability.

#### **EXCAVATOR CONTROL**

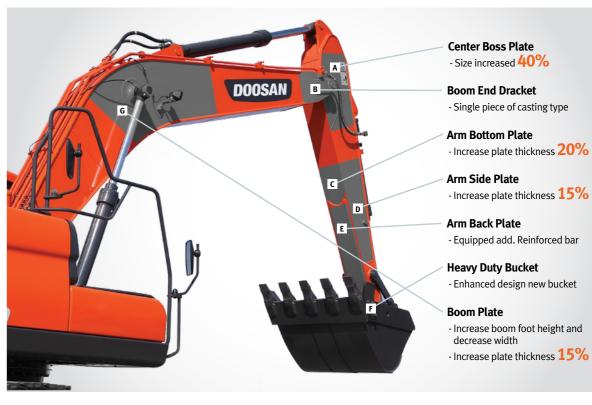
Improved Excavator control by New EPOS™ system The brains of the hydraulic excavator, the EPOS™ (Electronic Power Optimizing system), have been improved, through a CAN (Controller Area Network) communication link, these units are now perfectly synchronised.

# DURABILITY & RELIABILITY



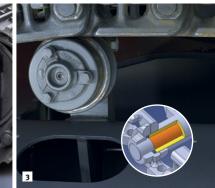


#### **HEAVY DUTY BOOM & ARM BOOM (STANDARD)**









### ■ ADVANCED PIN-BUSH AND DISK / SHIM TECHNOLOGY

Pocket & Dimple surface pattern : Optimized greasing & Trap foreign object

- Wear resistant solid lubricant coating:
   Noise free & enhanced anti-seizureproperty.
- Polymer shim with hard metal disk (90% less abrasion)
- Hard metal anti-wear disk (75% lessabrasion)

#### **■ INTEGRATED TRACK SPRING AND IDLER**

The track spring and the idler have been joined directly to achieve high durability and improved maintenance convenience.

#### **TRACKS**

The chain is composed of self-lubricating sealed links isolated from all external contamination. The tracks are locked by mechanically bolted pins.

#### **HEAVY DUTY & FIXED TRACK (OPTIONAL)**

- 1. Idler Bracket
- Thick & Wide strip to avoid bracket bending
- 2. Track Under Cover Plate
- Reinforced track under cover  $(3.2T \rightarrow 4.5T)$
- Reinforced mounting
- 3. Track Motor Cover
- (Out) Add bolt head guard
- (In) Reinforced motor cover mounting bolt using steel rib

# **\$ FUEL EFFICIENCY**





#### **RELIEF CUTOFF**

The pump continues to supply flow even when the maximum pressure on the system is reached due to severe working environments and large workloads. Relief cutoff technology of DX225LCA prevents transfer of unnecessary flow to maintain powerful working level at the maximum value while reducing consumption of fuel.

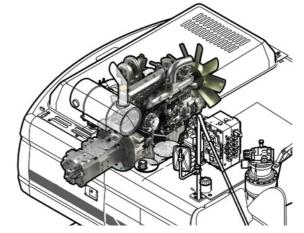


### OPTIMIZED LEVER CONTROL & AUTO IDLE

When operator takes a break and leaves the control joystick fixed, both of the engine and the pump are kept in standby mode and prevents unnecessary fuel consumption.



#### **PUMP MATCHING TECHNOLOGY**



Engine & pump matching, the new technology of Doosan, fully resolves problems; low respones time of the system, unnecessary fuel consumption. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.



# **OPERATOR COMFORT**





#### **MONITOR**



- 3 power modes for maximum efficiency
- Power mode
- Standand mode
- Economy mode
- 3 work modes to suit your application
- 1-way mode
- 2-way mode
- Digging mode

- Control panel
- Navigation modes
  - Rearview camera, Display selector
- 3 Working modes
  - Auto-idle & Flow rate control



#### **CONTROL PANEL**

- A Standard screen
- Anti-theft protection
- Filter/oil information
- Operation history
- Flow rate control
- Contrast control





#### CONTROL LEVER

Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Levelling operations and the movement of lifted loads in particular are made easier and safer. DOOSAN designed the DX225LCA by putting the operator at the center of the development goals. The result is significant ergonomic value that improves the efficiency and safety of the operator. More space, better visibility, air conditioning, a very comfortable seat... These are all elements that ensure that the operator can work for hours and hours in excellent

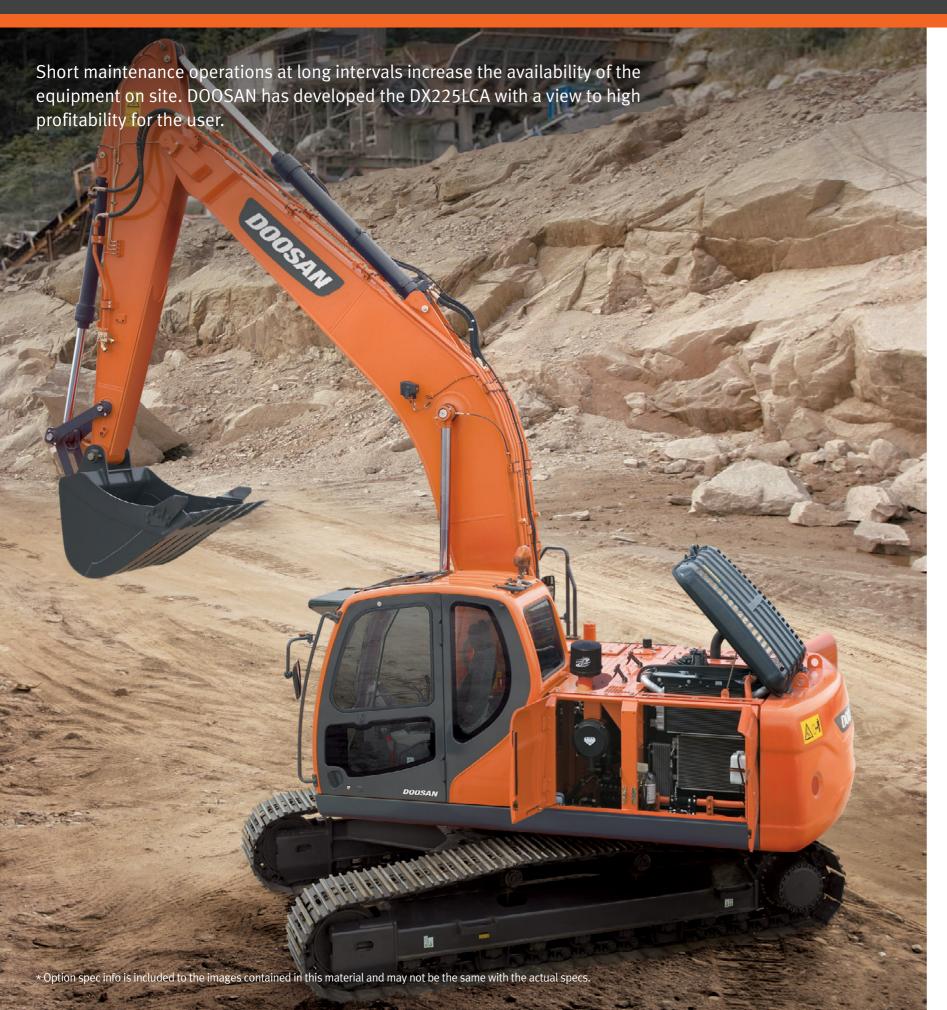
#### **AIR SUSPENSION SEAT (OPTIONAL)**

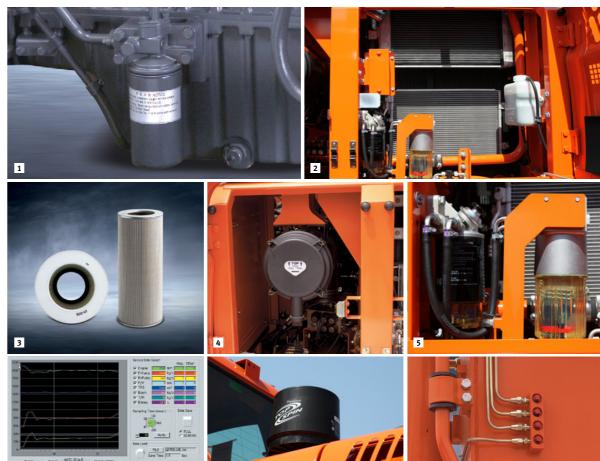
Equipped with various functions of adjustment forth and back and, and lumbar support, it reduces the vibration of equipment transmitted during work in an effective way.

Also for considering winter working environment, Seat warmer functions equipped.









#### **■** ENGINE OIL FILTER

The engine oil filter offers a high level of filtration allowing the oil change interval to be increased to 500 hours. It is easy to access and is positioned to avoid contaminating the surrounding environment.

#### **EASY MAINTENANCE**

Access to the various radiators is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.

#### **11** HYDRAULIC OIL RETURN FILTER

The protection of the hydraulic system is made more effective by the use of glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.

#### **AIR CLEANER**

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.

#### **MATER SEPARATOR**

High efficiency and large capacity water separator protect the engine by removing most moisture from the fuel.

#### **DESIGNATION** PC MONITORING (DMS)

A PC monitoring function enables connection to the EPOS™ system, allowing various parameters to be checked during maintenance, such as pump pressures, engine rotation speed, etc. and these can be stored and printed for subsequent analysis.

#### **7** PRE CLEANER

Install rotor type pre-cleaner (Donaldson Top Spin 5"). So filtering efficiency 20% increased

### **■ CENTRALIZED GREASE INLETS FOR EASY MAINTENANCE**

The boom & arm grease inlets are grouped for easy access.

## TELEMATICS SERVICE (OPTIONAL)

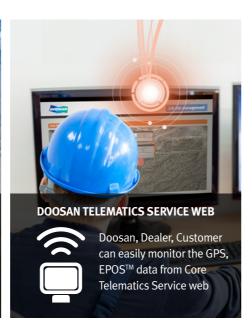
## **GLOBAL PARTS NETWORK**

#### **TELECOMMUNICATIONS**

Data flow from machine to web

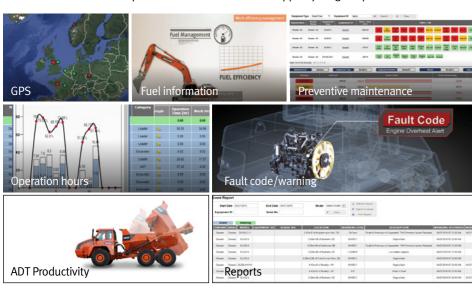






#### **FUNCTIONS**

Doosan Telematics Service provides various functions to support your great performance



#### **TELEMATICS SERVICE BENEFITS**

Doosan and dealer support customers to improve work efficiency with timely and responsive services

Improve work efficiency

- · Timely and preventive service
- Improve operator's skills by comparing work pattern
- Manage fleet more effectively

#### Dealer

Better service for customers

- · Provide better quality of service
- · Maintain machine value
- · Better understanding of market needs

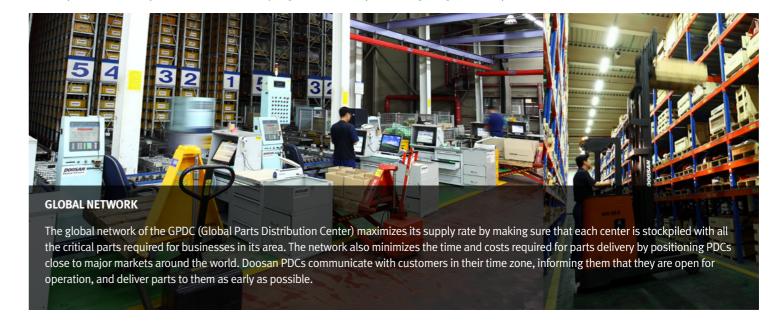
#### Doosan

Responsive to customer's voice

- · Utilize quality-related field data · Apply customer's usage profile to deveping new
- **EXCAVATOR** WHEEL LOADER **FUNCTION** ADT Location GPS All models All models All models Geo-fence Daily, Weekly, Monthly report All models All models E-mail reports Total operation hours All models All models All models Operation hours Operation hours by mode Tier 4 only Tier 4 only Preventive maintenance by item Maintenance parts All models Tier 4 only All models replacement cycle Fault code Fault code/ Warning Tier 4 only All models All models Machine Warnings on Gauge Panel All models **Fuel information** Tier 4 only All models Fuel consumption Tier 4 only Dump tonnage N/A N/A All models Dump capacity · Count of Work Cycle

#### GLOBAL PDC (PARTS DISTRIBUTION CENTER) NETWORK

Doosan provides fast and precise worldwide delivery of genuine Doosan parts through its global PDC (parts distribution center) network.



#### The Global Parts **Distribution Center Network**

PDCs had been set up as shown below, including Mother PDC in Ansan, Korea. The seven other PDCs include one in China (Yantai), one in the USA (Chicago), one in Brazil (Campinas), two in Europe (Germany and the UK), one in the Middle East (Dubai), and one in Asia (Singapore).



PDC BENEFIT



**Distribution Cost** Reduction



**Maximum Parts** supply rate



parts delivery

Shortest distance/time



Real-time service support



**Minimum** downtime





Heavy Construction Bucket, which is also called Heavy Duty bucket, is the most commonly used bucket in the construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.





#### General Purpose bucket

which is also called General Purpose bucket, is designed for digging and materials with low wear characteristics such as top-soil, loam, coal.



#### Heavy Duty bucket

which is also called Heavy Duty bucket, is the most commonly used bucket in the re-handling soft to medium materials e.g. construction equipment market and is designed mainly for use in heavy construction but also used in low density mining and quarry application.



#### Severe Duty bucket

which is also called Severe Duty bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials. It can be used in the toughest of applications.



#### Extra Severe Duty Bucket

which is also called X class bucket. The bucket is designed for use in high density mining and quarry application using high strength and high abrasion resistance materials. It can be used in the toughest of applications.



#### **GD (General Duty) Tooth**

Optimized design for Doosan's GP and the new General Construction bucket.
Suitable for machines ranging from 14 to 70 tons. Recommended for general construction and utility loading applications.



including excavating, trenching, loading and medium density quarries and mining.

#### SD (Severe Duty) Tooth







General Purpose Bucket **Heavy Duty Bucket** 

|                        | Capacity (SAE/PCSA)  |
|------------------------|--|
| GENERAL PURPOSE BUCKET | $0.39 \ / \ 0.51 \ / \ 0.81 \ / \ 0.92 \ / \ 1.05 \ / \ 1.17 \ / \ 1.28 \ m^3$ |
| HEAVY DUTY BUCKET      | 0.73 / 0.90 / 1.07 / 1.24 / 1.32 / 1.49 m <sup>3</sup>                         |
| SEVERE DUTY BUCKET     | 0.91 / 1.07 / 1.23 m <sup>3</sup>  |









**DEMOLITION** 

**BUCKET** 

|                   |         | Model   | Weight                           | Tool diameter            | Frequency           |
|-------------------|---------|---------|----------------------------------|--------------------------|---------------------|
| HYDRAULIC BREAKER |         | DXB180H | 1,720 kg                         | 140 mm                   | 320~580 BPM         |
|                   |         | Model   | Weight                           | Max. Jaw opening         | Force at Tip        |
| FIXED PULVERIZER  |         | FP22    | 1,375 kg                         | 732 mm                   | 54 t                |
| ROTATING CRUSHER  |         | RC22    | 1,780 kg                         | 732 mm                   | 56 t                |
| MULTI-PROCESSOR   | C/D/P/S | MP22    | 2,040 / 2,050 / 2,210 / 2,210 kg | 903 / 797 / 893 / 893 mm | 68 / 70 / 64 / 64 t |

- C: Crushing jaw
- D: Demolition jaw
- P: Pulverizing jaw
- S: Shearing jaw











**MATERIAL HANDLING** 

|                |     | Model | Weight           | Max Jaw opening | Max. Closing Force | Capacity            |
|----------------|-----|-------|------------------|-----------------|--------------------|---------------------|
| MULTI-GRAPPLE  |     | MG22  | 1,423 kg         | 2,044 mm        | 5.7 t              | $0.75 \text{ m}^3$  |
| STONE GRAPPLE  |     | SG22  | 1,285 kg         | 2,000 mm        | -                  | $0.23 \; m^3$       |
| WOOD GRAPPLE   | L/P | WG22  | 1,185 / 1,155 kg | 2,000 mm        | -                  | $0.3  \text{m}^{3}$ |
| LOG GRAPPLE    | L/P | LG22  | 1,280 / 1,250 kg | 2,000 mm        | -                  | 0.44 m <sup>3</sup> |
| ORANGE GRAPPLE |     | OG22  | 1,300 kg         | 2,150 mm        | -                  | 0.5 m <sup>3</sup>  |

L: Link type P: Pendulum type

**EARTH MOVING** 

**CONNECTING** 









|                  |       | •        | ••               |                    |
|------------------|-------|----------|------------------|--------------------|
|                  | Model | Weight   | Max. Jaw opening | Capacity           |
| CLAMSHELL BUCKET | CB22  | 1,440 kg | 2,080 mm         | 0.8 m <sup>3</sup> |
|                  | Model | Weight   | Base plate (WxL) | Impulse force      |
| PLATE COMPACTOR  | PC22  | 1,094 kg | 860 x 1,200 mm   | 11.2 t             |
|                  | Model | Weight   | Length           |                    |
| RIPPER           | RP22  | 450 kg   | 1,278 mm         |                    |



|               | Model | Weight | Bucket Pin dia. | Working rage (Pin to Pin) |
|---------------|-------|--------|-----------------|---------------------------|
| QUICK COUPLER | QC22  | 319 kg | 80 mm           | 445 ~ 514 mm              |

### **TECHNICAL SPECIFICATIONS**

#### **ENGINE**

#### Model

Doosan DB58TIS

2 valves per cylinder, vertical injectors, water cooled, turbo charged with air to air intercooler. The emission levels are well below the values required for phase II.

#### **Number of cylinders**

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#### Nominal flywheel power

115 kW (154 HP) @ 1,900rpm (SAE J1995, gross) 110 kW (148 HP) @ 1,900rpm (SAE J1349, net)

#### Max torque

61.5 kgf.m (603 Nm) at 1,400 rpm

#### Piston displacement

5,785 cc (353 cu.in)

#### Bore & stroke

102 mm x 118 mm (4.0" x 4.6")

#### Starter

24 V / 4.5 kW

#### **Batteries**

2 x 12 V / 100 Ah

#### Air cleaner

Double element with auto dust evacuation.

#### **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

Max flow: 2 x 206.5 l/min (2 x 55 US gpm, 2 x 45 lmp gpm)

#### Pilot pump

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

#### Maximum system pressure

Boom/arm/Bucket:

Normal mode: 330 kgf/cm<sup>2</sup> (324 bar) Power mode: 350 kgf/cm<sup>2</sup> (343 bar)

Travel: 330 kgf/cm<sup>2</sup> (324 bar) Swing: 270 kgf/cm<sup>2</sup> (264 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 | 125 x 85 x 1,260 mm (4.9" x 3.3" x 4'2")  |
|--------|---|---|
| Arm    | 1 | 140 x 100 x 1,450 mm (5.5" x 3.9" x 4'9") |
| Bucket | 1 | 120 x 80 x 1,060 mm (4.7" x 3.1" x 5'4")  |

#### **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

#### WEIGHT

Boom 5,700 mm (18'8") Arm 2,900 mm (9'6") Bucket SAE/PCSA 0.92 m<sup>3</sup> (1.20 yd<sup>3</sup>)

|                | Shoe width        | Operating weight      | Ground pressure (kgf/cm²)       |
|----------------|-------------------|-----------------------|---------------------------------|
| Triple Grouser | (Std) 600 mm (2') | 21,500 kg (47,399 lb) | 0.45 kgf/cm² (44 kpa, 6.40 psi) |
|                | 700 mm (2' 4")    | 21,800 kg (48,060 lb) | 0.40 kgf/cm² (39 kpa, 5.69 psi) |
|                | 800 mm (2' 8")    | 22,100 kg (48,721 lb) | 0.35 kgf/cm² (34 kpa, 4.78 psi) |
|                | 900 mm (2' 11")   | 22,400 kg (49,383 lb) | 0.31 kgf/cm² (30 kpa, 4.41 psi) |

#### UNDERCARRIAGE

Chassis are of very robust construction, all welded structures are designed to limit stresses.

High-quality material used for durability.

Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating

Tracks shoes made of induction-hardened alloy with double grouser. Heat-treated connecting pins.

Hydraulic track adjuster with shock-absorbing tension mechanism.

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

Upper rollers: 2 (standard shoes)

Lower rollers: 8

Shoes: 49

Total length of track: 4,445 mm (14'7")

#### 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 counterrotation 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%)

#### **ENVIRONMENT**

Noise levels comply with environmental regulations (dynamic values).

#### Sound level guarantee

103 dB (A) (2000/14/EC)

#### Cab sound level

73 dB (A) (ISO 6396)

#### **REFILL CAPACITIES**

#### **Fuel tank**

400 l (105.7 US gal)

#### Cooling system (Radiator capacity)

24 l (6.3 US gal)

#### **Engine oil**

28 l (7.4 US gal)

#### Swing drive

5 l (1.32 US gal)

#### Final drive

(each =Travel Device = travel motor + travel reduction gear)

2 x 3.3 l (0.87 US gal)

#### Hydraulic tank

195 l (51.5 US gal)

#### **BUCKET**

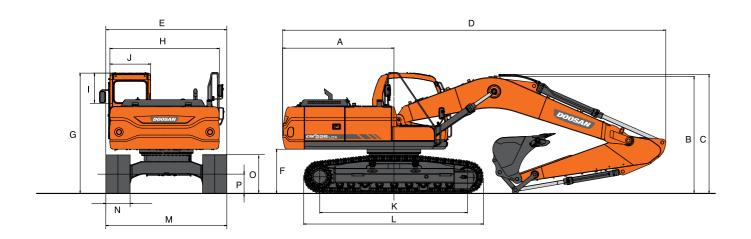
|                 | Capacity            | Width —    |             | Recommendation |          |           |          |            |  |  |  |  |  |
|-----------------|---------------------|------------|-------------|----------------|----------|-----------|----------|------------|--|--|--|--|--|
| Bucket          | (m³)                | (mm)       |             |                | 4.1to    | n C/W     |          | 5.3ton C/W |  |  |  |  |  |
| Туре            | (,                  | <b>(</b> , | Bucket      | 5.2m Boom      |          | 5.7m Boom |          |            |  |  |  |  |  |
|                 | SAE/PCSA,<br>heaped | W/O Cutter | Weight (kg) | 2.4m Arm       | 2.4m Arm | 2.9m Arm  | 3.5m Arm | 6.2m Arm   |  |  |  |  |  |
|                 | 0.39                | 736        | 330         | Χ              | Χ        | Χ         | Χ        | Α          |  |  |  |  |  |
|                 | 0.51                | 722        | 529         | Α              | Α        | Α         | Α        | Χ          |  |  |  |  |  |
| Canaral Durnasa | 0.81                | 1,064      | 654         | Α              | Α        | Α         | Α        | Χ          |  |  |  |  |  |
| General Purpose | 0.92                | 1,172      | 697         | Α              | Α        | Α         | Α        | Χ          |  |  |  |  |  |
| Bucket          | 1.05                | 1,308      | 751         | Α              | Α        | Α         | В        | Χ          |  |  |  |  |  |
|                 | 1.17                | 1,428      | 809         | Α              | Α        | В         | С        | Χ          |  |  |  |  |  |
|                 | 1.28                | 1,542      | 848         | Α              | В        | С         | D        | Χ          |  |  |  |  |  |
|                 | 0.60                | 750        | 651         | Α              | Α        | Α         | Α        | Χ          |  |  |  |  |  |
|                 | 0.76                | 900        | 722         | Α              | Α        | Α         | Α        | Χ          |  |  |  |  |  |
|                 | 0.92                | 1,050      | 813         | Α              | Α        | Α         | В        | Χ          |  |  |  |  |  |
| Heavy Duty      | 1.08                | 1,200      | 884         | Α              | Α        | В         | С        | Χ          |  |  |  |  |  |
| Bucket          | 1.24                | 1,350      | 955         | Α              | В        | С         | D        | Х          |  |  |  |  |  |
|                 | 1.35                | 1,450      | 1,023       | В              | С        | D         | D        | Х          |  |  |  |  |  |
|                 | 1.40                | 1,500      | 1,046       | В              | С        | D         | Χ        | Χ          |  |  |  |  |  |
|                 | 1.51                | 1,600      | 1,114       | С              | С        | D         | Х        | Х          |  |  |  |  |  |
| DC              | 0.45                | 1,500      | 357         | Х              | Х        | Х         | Х        | В          |  |  |  |  |  |
| DC              | 0.54                | 1,800      | 401         | Х              | Х        | Х         | Х        | С          |  |  |  |  |  |

Based on ISO 10567 and SAE J296, Arm length without quick change clamp A : Suitable for materials with density of 2,100 kg/m $^3$  (3,500 lb/yd $^3$ ) or less

- B: Suitable for materials with density of 1,800 kg/m³ (3,000 lb/yd³) or less
- C: Suitable for materials with density of 1,500 kg/m³ (2,500 lb/yd³) or less
- D: Suitable for materials with density of 1,500 kg/m (2,500 lb/yd²) or less
- X : Not Recommended

This bucket recommendation is based on machine stability considering the tipping load with certain density of handling material, and should be strictly followed. It's more recommendable to use a smaller size of bucket than recommendation under the severe working condition and application to avoid the durability risks.

## **DIMENSIONS**



#### DIMENSIONS

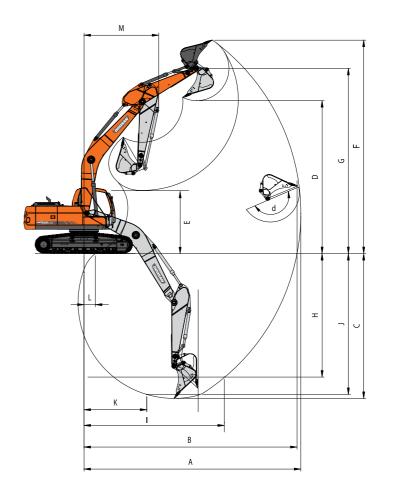
Boom 5,700 mm (18'8") Arm 2,900 mm (9'6") Shoe 600 mm (2') - Std

| Boo | om type (One piece)     |                     | 5,700mm<br>(18'8")        |                      |                     | 0mm<br>7'1")        | 8,500mm<br>(27'8")   |  |
|-----|-------------------------|---------------------|---------------------------|----------------------|---------------------|---------------------|----------------------|--|
| Arn | ı type                  | 2,400mm<br>(7' 10") | (Std.) 2,900mm<br>(9' 6") | 3,500mm<br>(11'6")   | 2,000mm<br>(6' 7")  | 2,400mm<br>(7' 10") | 6,200mm<br>(20°3")   |  |
| Buc | ket type (SAE/PCSA)     | 1.05m <sup>3</sup>  | (Std.) 0.92m <sup>3</sup> | 0.81m <sup>3</sup>   | 1.28m <sup>3</sup>  | 1.17m³              | 0.39m³ ditch         |  |
| A   | Tail Swing Radius       | $\rightarrow$       | 2,750mm<br>(9')           | ←                    | ←                   | ←                   | <b>←</b>             |  |
| В   | Shipping Height (Boom)  | 3,045mm<br>(10')    | 2,940mm<br>(9' 8")        | 3,225mm<br>(10' 7")  | 3,145mm<br>(10' 4") | 2,985mm<br>(9' 10") | 3,175mm<br>(10' 4")  |  |
| c   | Shipping Height (Hose)  | 3,110mm<br>(10' 2") | 3,005mm<br>(9' 10")       | 3,290mm<br>(10' 10") | 3,210mm<br>(10' 6") | 3,050mm(10')        | 3,254mm<br>(10' 6")  |  |
| D   | Shipping Length         | 9,500mm<br>(31'2")  | 9,485mm<br>(31' 1")       | 9,500mm<br>(31' 2")  | 9,080mm<br>(29' 9") | 8,990mm<br>(29' 6") | 12,317mm<br>(40' 4") |  |
| E   | Shipping Width          | <b>→</b>            | 2,990mm<br>(9' 10")       | <b>←</b>             | ←                   | <b>←</b>            | <b>←</b>             |  |
| F   | C/Weight Clearance      | $\rightarrow$       | 1,055mm<br>(3' 6")        | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| G   | Height Over CAB.        | <b>→</b>            | 2,975mm<br>(9 ' 9")       | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| Н   | House Width             | <b>→</b>            | 2,710mm<br>(8' 11")       | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| ı   | CAB. Height above House | <b>→</b>            | 845mm<br>(2' 9")          | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| J   | CAB. Width              | $\rightarrow$       | 960mm<br>(3 ' 2")         | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| K   | Tumbler Distance        | <b>→</b>            | 3,650mm<br>(11' 12")      | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| L   | Track Length            | <b>→</b>            | 4,445mm<br>(14' 7")       | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| M   | Undercarriage Width     | $\rightarrow$       | 2,990mm<br>(9' 10")       | <b>←</b>             | ←                   | <b>←</b>            | <b>←</b>             |  |
| N   | Shoe Width              | $\rightarrow$       | 600mm<br>(2')             | <b>←</b>             | ←                   | <b>←</b>            | <b>←</b>             |  |
| 0   | Track Height            | $\rightarrow$       | 947mm<br>(3' 1")          | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |
| P   | Car Body Clearance      | <b>→</b>            | 480mm<br>(1' 7")          | <b>←</b>             | <b>←</b>            | <b>←</b>            | <b>←</b>             |  |

#### **DIGGING FORCE (ISO)**

| D. J. J. (CAT /DCCA) | 0.543                 | 0.04 - 3           | (5:1) 0.003               | 4.053               | 4.4= 3    | 4.203              | 0.543.191                |
|----------------------|-----------------------|--------------------|---------------------------|---------------------|-----------|--------------------|--------------------------|
| Bucket (SAE/PCSA)    | 0.51m³                | 0.81m <sup>3</sup> | (Std.) 0.92m <sup>3</sup> | 1.05m <sup>3</sup>  | 1.17m³    | 1.28m <sup>3</sup> | 0.54m <sup>3</sup> ditch |
|                      | 15,200kgf             | 15,200kgf          | 15,200kgf                 | 15,200kgf           | 15,200kgf | 15,200kgf          | 10,000kgf                |
| Digging force        | 149.2kN               | 149.2kN            | 149.2kN                   | 149.2kN             | 149.2kN   | 149.2kN            | 98.1kN                   |
|                      | 33,510lbf 33,510lbf 3 |                    | 33,510 lbf                | 33,510lbf 33,510lbf |           | 33,510lbf          | 22,046lbf                |
| Arm                  | 2,000mm               |                    | 2,400mm                   | (Std.) 2,900mm      | 3,500mm   |                    | 6,200mm                  |
|                      | 15,300kgf             |                    | 12,600kgf                 | 10,800kgf           | 9,700kgf  |                    | 5,980kgf                 |
| Digging force        | 150.1kN               |                    | 123.7kN                   | 106kN               | 95.2kN    |                    | 58.6kN                   |
|                      | 33,730lbf             |                    | 27,778lbf                 | 23,810lbf           | 21,385lbf |                    | 13,183lbf                |

## **WORKING RANGES**

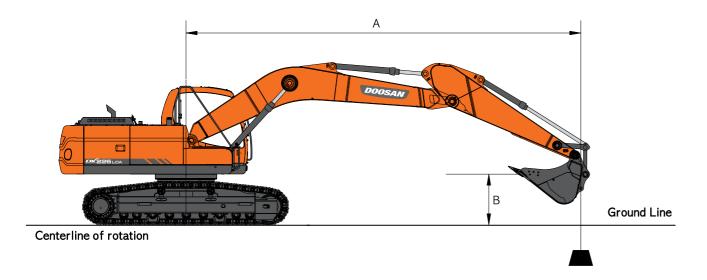


#### **WORKING RANGE**

| Booi | m length                           |                     | 5,700mm<br>(18'8")           |                     | 5,200n<br>(17°1            |                            | 8,500mm<br>(27'8")  |
|------|------------------------------------|---------------------|------------------------------|---------------------|----------------------------|----------------------------|---------------------|
| Arm  | type                               | 2,400mm<br>(7' 10") | (Std.)<br>2,900mm<br>(9' 6") | 3,500mm<br>(11'6")  | 2,000mm<br>(6' 7")         | 2,400mm<br>(7°11")         | 6,200mm<br>(20' 3") |
| Buck | ket type (SAE/PCSA)                | 1.05m³              | (Std.) 0.92m <sup>3</sup>    | 0.81m³              | 1.28m³                     | 1.17m³                     | 0.54m³ ditch        |
| A    | Max. digging reach                 | 9,480<br>(31'1")    | 9,900<br>(32' 6")            | 10,340<br>(33' 11") | 8 <b>,</b> 580<br>(28' 2") | 8,950<br>(29' 4")          | 15,379<br>(50' 4")  |
| В    | Max. digging reach at ground level | 9,300<br>(30' 6")   | 9,730<br>(31' 11")           | 10,230<br>(33' 7")  | 8,380<br>(27' 6")          | 8,760<br>(28' 9")          | 15,268<br>(50' 1")  |
| С    | Max. digging depth                 | 6,110<br>(20'1")    | 6,620<br>(21'9")             | 7,220<br>(23' 8")   | 5,355<br>(17' 7")          | 5,755<br>(18' 11")         | 11,661<br>(38' 2")  |
| D    | Max. dumping height                | 6,830<br>(22'5")    | 6,990<br>(22' 11")           | 7,150<br>(23' 6")   | 6,085<br>(20')             | 6,300<br>(20' 8")          | 11,148<br>(36' 5")  |
| E    | Min. dumping height                | 3,070<br>(10'1")    | 2,555<br>(8' 5")             | 1,953<br>(6' 5")    | 3 <b>,</b> 370<br>(11'1")  | 3,195<br>(10' 6")          | 2,009<br>(6' 6")    |
| F    | Max. digging height                | 9630<br>(31'7")     | 9,750<br>(32')               | 9,870<br>(32' 5")   | 8 <b>,</b> 845<br>(29')    | 9 <b>,</b> 065<br>(29' 9") | 13,403<br>(43' 9")  |
| G    | Max. bucket pin height             | 8,299<br>(27'3")    | 8,450<br>(27' 9")            | 8,612<br>(28' 3")   | 7 <b>,</b> 555<br>(24' 9") | 7,770<br>(25' 6")          | 12,380<br>(40' 6")  |
| Н    | Max. vertical wall depth           | 5,390<br>(17'8")    | 5,640<br>(18' 6")            | 6,010<br>(19' 9")   | 4 <b>,</b> 435<br>(14' 7") | 4,880<br>(16')             | 9,729<br>(31' 9")   |
| ı    | Max. radius vertical               | 6,050<br>(19' 10")  | 6,410<br>(21')               | 6,750<br>(22' 2")   | 5,790<br>(19')             | 5,842<br>(19' 2")          | 10,064<br>(33')     |
| J    | Max. digging depth(8'level)        | 5,910<br>(19' 5")   | 6,430<br>(21' 1")            | 7,050<br>(23' 2")   | 5,115<br>(16' 9")          | 5 <b>,</b> 545<br>(18' 2") | 11,561<br>(37' 9")  |
| K    | Min. radius 8' line                | 2,880<br>(9' 5")    | 2,865<br>(9' 5")             | 2,830<br>(9' 3")    | 2,495<br>(8' 2")           | 2,510<br>(8' 3")           | 4,854<br>(15' 9")   |
| L    | Min. digging reach                 | 1,698<br>(5'7")     | 519<br>(1' 8")               | -224<br>(-9')       | 1,819<br>(6')              | 640<br>(2' 1")             | 196<br>(6')         |
| М    | Min. swing radius                  | 3,410<br>(11' 2")   | 3,410<br>(11' 2")            | 3,440<br>(11'3")    | 3,370<br>(11' 1")          | 3,190<br>(10' 6")          | 4,714<br>(15' 4")   |
| d.   | Bucket angle (deg)                 | 166                 | 166                          | 166                 | 166                        | 166                        | 166                 |

At power boost (ISO)

### **LIFTING CAPACITY**



#### **STANDARD CONFIGURATION**

#### Metric

Boom: 5,700mm (18'8") Arm: 2,900mm (9'6") Bucket: SAE/PCSA 0.92m³ (1.2yd³) CECE 0.8m³ (1.1yd3) Shoe: 600mm (2')

Unit: 1,000kg

|            | - :    | 2      | :      | 3      | 4      | 4                | į     | 5 6          |       | 7              |       | 8            |          | Max. Reach     |          |                |      |
|------------|--------|--------|--------|--------|--------|------------------|-------|--------------|-------|----------------|-------|--------------|----------|----------------|----------|----------------|------|
| B(m)       | 4      | C#     | 4      | CH-    | 4      | ( <del>c</del> h | 4     | <del>(</del> | 4     | ( <del> </del> | 4     | <del>(</del> | <u> </u> | ( <del> </del> | <u>F</u> | ( <del> </del> | A(m) |
| 8          |        |        |        |        |        |                  |       |              |       |                |       |              |          |                | *3.42    | *3.42          | 5.94 |
| 7          |        |        |        |        |        |                  |       |              |       |                |       |              |          |                | *3.31    | *3.31          | 6.85 |
| 6          |        |        |        |        |        |                  |       |              | *4.53 | *4.53          | *4.39 | 3.84         |          |                | *3.30    | *3.30          | 7.51 |
| 5          |        |        |        |        |        |                  |       |              | *4.87 | *4.87          | *4.69 | 3.79         |          |                | *3.36    | 2.99           | 7.99 |
| 4          |        |        |        |        |        |                  | *5.95 | *5.95        | *5.37 | 4.79           | *4.99 | 3.72         | *4.50    | 2.95           | *3.48    | 2.75           | 8.32 |
| 3          |        |        | *11.94 | *11.94 | *8.57  | *8.57            | *6.92 | 6.19         | *5.97 | 4.64           | *5.36 | 3.62         | 4.67     | 2.90           | *3.65    | 2.59           | 8.52 |
| 2          |        |        | *7.08  | *7.08  | *10.19 | 8.36             | *7.89 | 5.93         | *6.58 | 4.49           | 5.71  | 3.53         | 4.61     | 2.84           | *3.89    | 2.51           | 8.60 |
| 1          |        |        | *5.62  | *5.62  | *11.36 | 8.03             | *8.69 | 5.73         | *7.11 | 4.36           | 5.61  | 3.44         | 4.55     | 2.79           | 4.09     | 2.50           | 8.56 |
| O (Ground) | *3.08  | *3.08  | *6.66  | *6.66  | *11.94 | 7.85             | *9.21 | 5.59         | 7.05  | 4.26           | 5.54  | 3.37         | 4.51     | 2.75           | 4.18     | 2.54           | 8.40 |
| -1         | *5.53  | *5.53  | *8.59  | *8.59  | *12.03 | 7.77             | 9.40  | 5.51         | 6.98  | 4.19           | 5.49  | 3.33         | 4.48     | 2.73           | 4.39     | 2.67           | 8.11 |
| -2         | *7.92  | *7.92  | *11.11 | *11.11 | *11.71 | 7.77             | *9.28 | 5.48         | 6.96  | 4.17           | 5.48  | 3.32         |          |                | 4.76     | 2.90           | 7.69 |
| -3         | *10.58 | *10.58 | *14.12 | *12.89 | *10.99 | 7.82             | *8.81 | 5.51         | 6.98  | 4.19           | 5.51  | 3.35         |          |                | 5.41     | 3.29           | 7.09 |
| -4         | *13.78 | *13.78 | *12.36 | *12.36 | *9.77  | 7.94             | *7.86 | 5.59         | *6.29 | 4.26           |       |              |          |                | *5.86    | 4.00           | 6.28 |
| -5         |        |        | *9.77  | *9.77  | *7.80  | *7.80            | *6.10 | 5.75         |       |                |       |              |          |                | *5.85    | 5.50           | 5.15 |

Feet Unit: 1,000lb

| A(ft)      | 1      | 0'           | 1      | .5'          | 2      | 20'          | 2      | 5'           |        | Max. Reach     |       |
|------------|--------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|----------------|-------|
| B(ft)      | 7      | <del>(</del> | 4      | <del>(</del> | 4      | <del>(</del> | -      | <del>(</del> | 4      | ( <del> </del> | A(ft) |
| 25         |        |              |        |              | *8.41  | *8.41        |        |              | *7.41  | *7.41          | 20.73 |
| 20         |        |              |        |              | *9.94  | *9.94        |        |              | *7.28  | *7.28          | 24.45 |
| 15         |        |              |        |              | *11.10 | 10.46        | *10.37 | 7.16         | *7.50  | 6.34           | 26.73 |
| 10         | *25.44 | *25.44       | *16.42 | 15.73        | *12.94 | 10.00        | 11.16  | 6.95         | *8.03  | 5.73           | 27.93 |
| 5          | *13.83 | *13.83       | *20.28 | 14.71        | *14.86 | 9.52         | 10.91  | 6.72         | *8.91  | 5.51           | 28.20 |
| O (Ground) | *15.25 | *15.25       | *22.52 | 14.09        | 15.16  | 9.16         | 10.71  | 6.53         | 9.21   | 5.61           | 27.56 |
| -5         | *22.18 | *22.18       | *22.80 | 13.87        | 14.97  | 9.00         | 10.63  | 6.46         | 10.05  | 6.12           | 25.95 |
| -10        | *30.58 | 27.61        | *21.20 | 13.95        | 15.02  | 9.03         |        |              | 12.02  | 7.31           | 23.15 |
| -15        | *23.99 | *23.99       | *17.02 | 14.32        |        |              |        |              | *12.97 | 10.35          | 18.64 |
| -20        |        |              |        |              | *8.41  | *8.41        |        |              | *7.41  | *7.41          | 20.73 |

- 1. Ratings are based on SAE J1097

- The load point is a hook located on the back of the bucket.
   \* Rated loads are based on hydraulic capacity.
   Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

: Rating Over Front

: Rating Over Side or 360 degree

#### Option 1

Metric

Boom: 5,700mm (18'8") Arm: 2,400mm (7'7") Bucket: SAE/PCSA 1.05m³ (1.4yd³) CECE 0.9m³ (1.2yd³) Shoe: 600mm(2')

| lni |  |  |  | O |  |
|-----|--|--|--|---|--|
|     |  |  |  |   |  |

| \ A(m)     | :      | 2              | :        | 3              | 4      | 4              | :        | 5              | (        | 6            | 7        | 7            | 8    | 3               | N        | 1ax. Reach     | 1    |
|------------|--------|----------------|----------|----------------|--------|----------------|----------|----------------|----------|--------------|----------|--------------|------|-----------------|----------|----------------|------|
| B(m)       | -      | ( <del> </del> | <u>.</u> | ( <del> </del> | -      | ( <del> </del> | <u>F</u> | ( <del> </del> | <u>F</u> | <del>[</del> | <u>-</u> | <del>[</del> | 4    | ( <del> -</del> | <u>F</u> | ( <del> </del> | A(m) |
| 7          |        |                |          |                |        |                |          |                | *5.03    | 4.98         |          |              |      |                 | *4.47    | *4.47          | 6.29 |
| 6          |        |                |          |                |        |                |          |                | *5.06    | 4.96         | *4.46    | 3.80         |      |                 | *4.44    | 3.79           | 7.00 |
| 5          |        |                |          |                |        |                | *5.77    | *5.77          | *5.37    | 4.88         | *5.13    | 3.77         |      |                 | *4.51    | 3.32           | 7.52 |
| 4          |        |                | *10.28   | *10.28         | *7.83  | *7.83          | *6.58    | 6.36           | *5.84    | 4.76         | *5.37    | 3.70         |      |                 | *4.66    | 3.03           | 7.87 |
| 3          |        |                |          |                | *9.51  | 8.64           | *7.52    | 6.12           | *6.40    | 4.62         | *5.70    | 3.62         | 4.67 | 2.91            | 4.59     | 2.86           | 8.08 |
| 2          |        |                |          |                | *10.98 | 8.24           | *8.41    | 5.89           | *6.95    | 4.48         | 5.71     | 3.54         | 4.62 | 2.86            | 4.47     | 2.77           | 8.17 |
| 1          |        |                |          |                | *11.86 | 7.99           | *9.07    | 5.72           | 7.17     | 4.37         | 5.63     | 3.46         | 4.58 | 2.82            | 4.47     | 2.75           | 8.12 |
| O (Ground) |        |                | *5.72    | *5.72          | *12.14 | 7.87           | *9.43    | 5.61           | 7.08     | 4.29         | 5.57     | 3.41         |      |                 | 4.59     | 2.82           | 7.96 |
| -1         | *5.52  | *5.52          | *8.70    | *8.70          | *11.96 | 7.84           | 9.45     | 5.56           | 7.03     | 4.24         | 5.54     | 3.39         |      |                 | 4.85     | 2.98           | 7.65 |
| -2         | *8.80  | *8.80          | *12.21   | *12.21         | *11.41 | 7.87           | *9.16    | 5.56           | 7.03     | 4.24         | 5.56     | 3.40         |      |                 | 5.33     | 3.27           | 7.20 |
| -3         | *12.33 | *12.33         | *13.09   | *13.09         | *10.45 | 7.95           | *8.47    | 5.61           | *6.88    | 4.29         |          |              |      |                 | *6.05    | 3.78           | 6.56 |
| -4         | *13.90 | *13.90         | *11.03   | *11.03         | *8.93  | 8.10           | *7.19    | 5.72           |          |              |          |              |      |                 | *6.08    | 4.77           | 5.67 |
| -5         |        |                |          |                | *6.36  | *6.36          |          |                |          |              |          |              |      |                 | *5.73    | *5.73          | 4.38 |

Unit: 1,000lb Feet

| A(ft)      | 1            | 0'             | 1      | .5'            | 2      | 0'             | 2      | 5'             |        | Max. Reach     |       |
|------------|--------------|----------------|--------|----------------|--------|----------------|--------|----------------|--------|----------------|-------|
| B(ft)      | <del>U</del> | ( <del>-</del> | 4      | ( <del> </del> | -      | ( <del> </del> | -      | ( <del> </del> | 4      | ( <del> </del> | A(ft) |
| 25         |              |                |        |                |        |                |        |                | *10.05 | *10.05         | 18.74 |
| 20         |              |                |        |                | *11.11 | 10.66          |        |                | *9.78  | 8.49           | 22.79 |
| 15         |              |                | *14.13 | *14.13         | *12.15 | 10.38          | *10.73 | 7.13           | *10.06 | 7.02           | 25.22 |
| 10         | *21.27       | *21.27         | *17.99 | 15.51          | *13.87 | 9.95           | 11.16  | 6.96           | 10.15  | 6.31           | 26.49 |
| 5          |              |                | *21.44 | 14.60          | 15.55  | 9.52           | 10.95  | 6.76           | 9.83   | 6.06           | 26.78 |
| O (Ground) | *13.18       | *13.18         | *23.02 | 14.13          | 15.22  | 9.23           | 10.80  | 6.62           | 10.11  | 6.21           | 26.10 |
| -5         | *23.57       | *23.57         | *22.63 | 14.03          | 15.11  | 9.13           |        |                | 11.18  | 6.85           | 24.39 |
| -10        | *28.35       | 28.06          | *20.29 | 14.20          | *14.76 | 9.24           |        |                | *13.35 | 8.41           | 21.39 |
| -15        | *20.56       | *20.56         | *14.76 | 14.69          |        |                |        |                | *13.15 | 12.87          | 16.39 |

#### Option 2

#### Metric

Boom: 5,700mm (18'8") Arm: 3,500mm (11'6") Bucket: SAE/PCSA 0.81m<sup>3</sup> (1.1yd<sup>3</sup>) CECE 0.7m<sup>3</sup> (0.9yd<sup>3</sup>) Shoe: 600mm (2')

Unit: 1,000kg

|            |        | 2              |        | 3              | 4      | 4              |       | 5     |       | 5              |       | 7              | 1     | В              | 9     | •              | ٨     | Max. Reac      | h    |
|------------|--------|----------------|--------|----------------|--------|----------------|-------|-------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|-------|----------------|------|
| B(m)       | -      | ( <del> </del> | -      | ( <del> </del> | -      | ( <del> </del> | F     | C#    | 4     | ( <del> </del> | -     | ( <del> </del> | 4     | ( <del> </del> | -     | ( <del> </del> | T-    | ( <del> </del> | A(m) |
| 8          |        |                |        |                |        |                |       |       |       |                |       |                |       |                |       |                | *2.97 | *2.97          | 6.61 |
| 7          |        |                |        |                |        |                |       |       |       |                | *3.54 | *3.54          |       |                |       |                | *2.89 | *2.89          | 7.43 |
| 6          |        |                |        |                |        |                |       |       |       |                | *4.04 | 3.92           | *2.98 | *2.98          |       |                | *2.89 | *2.89          | 8.04 |
| 5          |        |                |        |                |        |                |       |       |       |                | *4.24 | 3.86           | *3.87 | 3.05           |       |                | *2.94 | 2.72           | 8.49 |
| 4          |        |                |        |                |        |                |       |       | *4.83 | *4.83          | *4.57 | 3.77           | *4.39 | 2.99           |       |                | *3.03 | 2.51           | 8.81 |
| 3          |        |                | *9.80  | *9.80          | *7.45  | *7.45          | *6.21 | *6.21 | *5.46 | 4.71           | *4.97 | 3.67           | *4.64 | 2.93           |       |                | *3.18 | 2.38           | 9.00 |
| 2          |        |                | *13.13 | *13.13         | *9.20  | 8.53           | *7.26 | 6.02  | *6.13 | 4.54           | *5.41 | 3.56           | 4.63  | 2.86           | *3.62 | 2.33           | *3.38 | 2.30           | 9.07 |
| 1          |        |                | *8.04  | *8.04          | *10.63 | 8.12           | *8.19 | 5.77  | *6.74 | 4.38           | 5.63  | 3.45           | 4.55  | 2.79           | 3.77  | 2.29           | *3.65 | 2.28           | 9.03 |
| O (Ground) | *3.76  | *3.76          | *7.64  | *7.64          | *11.54 | 7.85           | *8.87 | 5.59  | 7.05  | 4.25           | 5.53  | 3.36           | 4.49  | 2.73           |       |                | 3.82  | 2.31           | 8.88 |
| -1         | *5.45  | *5.45          | *8.73  | *8.73          | *11.93 | 7.71           | *9.25 | 5.47  | 6.95  | 4.16           | 5.46  | 3.30           | 4.45  | 2.69           |       |                | 3.98  | 2.41           | 8.61 |
| -2         | *7.33  | *7.33          | *10.55 | *10.55         | *11.87 | 7.66           | 9.30  | 5.41  | 6.90  | 4.12           | 5.43  | 3.27           | 4.44  | 2.68           |       |                | 4.27  | 2.58           | 8.21 |
| -3         | *9.47  | *9.47          | *13.01 | 12.64          | *11.41 | 7.68           | *9.06 | 5.41  | 6.90  | 4.11           | 5.43  | 3.28           |       |                |       |                | 4.75  | 2.88           | 7.66 |
| -4         | *12.02 | *12.02         | *13.59 | 12.79          | *10.51 | 7.76           | *8.40 | 5.46  | *6.83 | 4.15           |       |                |       |                |       |                | 5.59  | 3.39           | 6.91 |
| -5         | *15.24 | *15.24         | *11.49 | *11.49         | *9.01  | 7.91           | *7.19 | 5.57  |       |                |       |                |       |                |       |                | *5.77 | 4.36           | 5.91 |
| -6         |        |                | *8.30  | *8.30          | *6.51  | *6.51          |       |       |       |                |       |                |       |                |       |                | *5.75 | *5.75          | 4.46 |

Unit: 1,000lb Feet

| A(ft)      | 1      | 0'             | 1            | 15'            | 2        | 20'            | 2            | 5'             |        | Max. Reach     |       |
|------------|--------|----------------|--------------|----------------|----------|----------------|--------------|----------------|--------|----------------|-------|
| B(ft)      | T      | ( <del> </del> | <del>-</del> | ( <del> </del> | <u>G</u> | ( <del> </del> | <del>-</del> | ( <del> </del> | F      | ( <del>C</del> | A(ft) |
| 25         |        |                |              |                |          |                |              |                | *6.45  | *6.45          | 22.80 |
| 20         |        |                |              |                |          |                | *7.80        | 7.43           | *6.36  | *6.36          | 26.22 |
| 15         |        |                |              |                | *9.93    | *9.93          | *9.48        | 7.28           | *6.55  | 5.78           | 28.35 |
| 10         |        |                | *14.55       | *14.55         | *11.86   | 10.14          | *10.48       | 7.02           | *6.99  | 5.25           | 29.49 |
| 5          | *23.19 | *23.19         | *18.77       | 14.90          | *13.97   | 9.59           | 10.94        | 6.74           | *7.71  | 5.03           | 29.75 |
| O (Ground) | *17.48 | *17.48         | *21.70       | 14.10          | 15.16    | 9.15           | 10.68        | 6.50           | 8.42   | 5.09           | 29.14 |
| -5         | *21.68 | *21.68         | *22.73       | 13.73          | 14.88    | 8.90           | 10.54        | 6.37           | 9.07   | 5.48           | 27.62 |
| -10        | *29.55 | 27.07          | *21.90       | 13.70          | 14.83    | 8.86           | 10.56        | 6.39           | 10.55  | 6.38           | 25.02 |
| -15        | *27.18 | *27.18         | *18.87       | 13.96          | *13.48   | 9.06           |              |                | *12.58 | 8.49           | 20.92 |
| -20        |        |                |              |                |          |                |              |                | *12.60 | *12.60         | 14.05 |

## **LIFTING CAPACITY**

#### Option 3

#### Metric

Boom: 5,200mm (17'1") Arm: 2,000mm (6'7") Bucket: SAE/PCSA 1.28m³ (1.7yd³) CECE: 1.1m³ (1.4yd³) Shoe: 600mm (2') Unit: 1,000kg

| (m)        | 2      | 2              | :        | 3            | 4      | •            | 5     | ;              | (     | 6            | 7        | 7        |       | Max. Reach     |      |
|------------|--------|----------------|----------|--------------|--------|--------------|-------|----------------|-------|--------------|----------|----------|-------|----------------|------|
| B(m)       | 4      | ( <del> </del> | <u> </u> | <del>(</del> | 4      | <del>(</del> | 4     | ( <del> </del> | 4     | <del>(</del> | <u>-</u> | <b>(</b> | 4     | ( <del> </del> | A(m) |
| 7          |        |                |          |              |        |              |       |                |       |              |          |          | *5.89 | *5.89          | 4.99 |
| 6          |        |                |          |              |        |              | *5.82 | *5.82          |       |              |          |          | *5.80 | 5.04           | 5.87 |
| 5          |        |                |          |              |        |              | *6.21 | *6.21          | *5.89 | 4.82         |          |          | *5.83 | 4.23           | 6.48 |
| 4          |        |                | *10.34   | *10.34       | *8.08  | *8.08        | *6.92 | 6.35           | *6.25 | 4.73         |          |          | *5.91 | 3.77           | 6.88 |
| 3          |        |                |          |              | *9.68  | 8.71         | *7.79 | 6.14           | *6.73 | 4.62         | 5.79     | 3.61     | 5.62  | 3.50           | 7.12 |
| 2          |        |                |          |              | *11.12 | 8.35         | *8.63 | 5.94           | *7.23 | 4.51         | 5.72     | 3.55     | 5.45  | 3.38           | 7.22 |
| 1          |        |                |          |              | *12.00 | 8.12         | *9.26 | 5.79           | 7.22  | 4.41         | 5.66     | 3.49     | 5.45  | 3.37           | 7.17 |
| O (Ground) |        |                | *9.19    | *9.19        | *12.26 | 8.01         | *9.57 | 5.70           | 7.15  | 4.35         |          |          | 5.65  | 3.48           | 6.98 |
| -1         | *8.39  | *8.39          | *13.56   | 13.10        | *12.00 | 7.99         | *9.50 | 5.66           | 7.12  | 4.33         |          |          | 6.10  | 3.74           | 6.63 |
| -2         | *13.15 | *13.15         | *14.30   | 13.21        | *11.25 | 8.04         | *8.99 | 5.69           | 7.15  | 4.35         |          |          | 6.98  | 4.25           | 6.10 |
| -3         | *15.73 | *15.73         | *12.39   | *12.39       | *9.88  | 8.16         | *7.83 | 5.78           |       |              |          |          | *7.19 | 5.27           | 5.33 |
| -4         |        |                | *9.39    | *9.39        | *7.41  | *7.41        |       |                |       |              |          |          | *7.06 | *7.06          | 4.17 |

Feet Unit: 1,000lb

| A(ft)      | 1      | .0'              |          | 15'            | 2        | 20'              |        | Max. Reach     |       |
|------------|--------|------------------|----------|----------------|----------|------------------|--------|----------------|-------|
| B(ft)      | 7      | ( <del> </del> - | <u> </u> | ( <del> </del> | <u> </u> | ( <del>]</del> - | 4      | ( <del>]</del> | A(ft) |
| 20         |        |                  |          |                |          |                  | *12.80 | 11.35          | 19.03 |
| 15         |        |                  | *14.93   | *14.93         | *13.21   | 10.28            | *12.92 | 8.82           | 21.89 |
| 10         |        |                  | *18.52   | 15.60          | *14.62   | 9.95             | 12.43  | 7.75           | 23.35 |
| 5          |        |                  | *21.85   | 14.79          | 15.63    | 9.59             | 11.96  | 7.40           | 23.67 |
| O (Ground) | *21.17 | *21.17           | *23.31   | 14.37          | 15.37    | 9.36             | 12.46  | 7.66           | 22.90 |
| -5         | *32.59 | 28.15            | *22.52   | 14.32          | 15.34    | 9.34             | 14.31  | 8.75           | 20.93 |
| -10        | *26.76 | *26.76           | *18.94   | 14.59          |          |                  | *15.86 | 11.77          | 17.32 |
| -15        | *22.52 | *22.52           |          |                |          |                  | *15.76 | 14.73          | 13.68 |
| -20        | *26.50 | *26.50           | *19.23   | *19.23         |          |                  |        |                |       |

#### Option 4

#### Metric

Boom:5,200mm (17'1") Arm:2,400mm(7'10") Bucket: SAE/PCSA 1.28m³ (1.7yd³) CECE:1.1m³ (1.4yd³) Shoe:600mm (2')

Unit: 1,000kg

| A(m)       | 2      | 2            |        | 3              | 4      | 4            | 5        |              | 6     | ,            | 7        |              |       | Max. Reach     |      |
|------------|--------|--------------|--------|----------------|--------|--------------|----------|--------------|-------|--------------|----------|--------------|-------|----------------|------|
| B(m)       | G      | <del>(</del> | 4      | ( <del> </del> | -      | <del>(</del> | <u>-</u> | <del>(</del> | -G    | <del>(</del> | <u>G</u> | <del>(</del> | 4     | ( <del> </del> | A(m) |
| 7          |        |              |        |                |        |              |          |              |       |              |          |              | *4.38 | *4.38          | 5.56 |
| 6          |        |              |        |                |        |              |          |              | *5.31 | 4.93         |          |              | *4.31 | *4.31          | 6.36 |
| 5          |        |              |        |                |        |              | *5.72    | *5.72        | *5.49 | 4.88         |          |              | *4.37 | 3.82           | 6.92 |
| 4          |        |              |        |                | *7.37  | *7.37        | *6.46    | 6.44         | *5.90 | 4.79         | *5.57    | 3.71         | *4.53 | 3.44           | 7.30 |
| 3          |        |              | *12.40 | *12.40         | *9.02  | 8.89         | *7.38    | 6.23         | *6.43 | 4.67         | 5.83     | 3.64         | *4.78 | 3.22           | 7.53 |
| 2          |        |              | *9.97  | *9.97          | *10.61 | 8.51         | *8.31    | 6.03         | *6.99 | 4.55         | 5.75     | 3.58         | 5.01  | 3.11           | 7.62 |
| 1          |        |              | *7.93  | *7.93          | *11.73 | 8.24         | *9.06    | 5.86         | 7.26  | 4.45         | 5.68     | 3.51         | 5.02  | 3.10           | 7.58 |
| O (Ground) | *4.31  | *4.31        | *9.47  | *9.47          | *12.25 | 8.09         | *9.50    | 5.74         | 7.17  | 4.37         | 5.63     | 3.47         | 5.17  | 3.19           | 7.40 |
| -1         | *7.70  | *7.70        | *12.35 | *12.35         | *12.22 | 8.03         | *9.59    | 5.69         | 7.13  | 4.33         | 5.62     | 3.45         | 5.53  | 3.40           | 7.07 |
| -2         | *11.15 | *11.15       | *15.20 | 13.21          | *11.69 | 8.05         | *9.27    | 5.69         | 7.13  | 4.34         |          |              | 6.20  | 3.80           | 6.57 |
| -3         | *15.22 | *15.22       | *13.54 | 13.36          | *10.59 | 8.13         | *8.42    | 5.74         |       |              |          |              | *6.83 | 4.55           | 5.86 |
| -4         | *14.19 | *14.19       | *10.97 | *10.97         | *8.64  | 8.29         |          |              |       |              |          |              | *6.90 | 6.16           | 4.84 |

Feet Unit:1,000lb

| A(ft)      | 1      | 0'             | 1        | 15'            |          | 20'            |          | Max. Reach   |       |
|------------|--------|----------------|----------|----------------|----------|----------------|----------|--------------|-------|
| B(ft)      | F      | ( <del>L</del> | <u>-</u> | ( <del>L</del> | <u>-</u> | ( <del>L</del> | <u>F</u> | <del>(</del> | A(ft) |
| 20         |        |                |          |                | *10.85   | 10.57          | *9.51    | *9.51        | 20.66 |
| 15         |        |                | *13.70   | *13.70         | *12.39   | 10.41          | *9.75    | 8.01         | 23.31 |
| 10         | *26.46 | *26.46         | *17.42   | 15.85          | *13.98   | 10.06          | *10.50   | 7.12         | 24.69 |
| 5          | *19.51 | *19.51         | *21.15   | 15.00          | *15.72   | 9.68           | 11.02    | 6.83         | 24.99 |
| O (Ground) | *21.71 | *21.71         | *23.19   | 14.50          | 15.42    | 9.41           | 11.41    | 7.04         | 24.27 |
| -5         | *32.31 | 28.18          | *23.02   | 14.36          | 15.32    | 9.32           | 12.86    | 7.90         | 22.42 |
| -10        | *29.26 | 28.61          | *20.32   | 14.52          |          |                | *15.06   | 10.13        | 19.10 |
| -15        | *19.26 | *19.26         |          |                |          |                | *14.84   | *14.84       | 13.24 |
| -20        | *26.50 | *26.50         | *19.23   | *19.23         |          |                |          |              |       |

#### Option 5

#### Metric

Boom: 5,700mm (18'8") Arm: 2,900mm (9'6") Bucket: SAE/PCSA 0.93m³ (1.2yd³) CECE: 0.8m³ (1.0yd³) Shoe: 800mm (2'8")

| Unit : 1,000k | g |
|---------------|---|
| Max. Reach    |   |

| \ A(m)     | :        | 2              | :      | 3              | 4      | +              | 5     | ,              | (     | 6              | 7     | 7         | 8     | 3            |       | 9              | M     | ax. Reach      | 1    |
|------------|----------|----------------|--------|----------------|--------|----------------|-------|----------------|-------|----------------|-------|-----------|-------|--------------|-------|----------------|-------|----------------|------|
| B(m)       | <b>4</b> | ( <del> </del> | G      | ( <del> </del> | 4      | ( <del> </del> | 4     | ( <del> </del> | 4     | ( <del> </del> | F     | <b>(=</b> | 4     | <del>(</del> | F     | ( <del> </del> | 4     | ( <del> </del> | A(m) |
| 8          |          |                |        |                |        |                |       |                |       |                |       |           |       |              |       |                | *3.42 | *3.42          | 5.94 |
| 7          |          |                |        |                |        |                |       |                |       |                |       |           |       |              |       |                | *3.31 | *3.31          | 6.85 |
| 6          |          |                |        |                |        |                |       |                | *4.53 | *4.53          | *4.39 | 3.94      |       |              | *4.53 |                | *3.30 | *3.30          | 7.51 |
| 5          |          |                |        |                |        |                |       |                | *4.87 | *4.87          | *4.69 | 3.89      |       |              | *4.87 |                | *3.36 | 3.08           | 7.99 |
| 4          |          |                |        |                |        |                | *5.95 | *5.95          | *5.37 | 4.92           | *4.99 | 3.82      | *4.50 | 30.4         | *5.37 |                | *3.48 | 2.83           | 8.32 |
| 3          |          |                | *11.94 | *11.94         | *8.57  | *8.57          | *6.92 | 6.34           | *5.97 | 4.76           | *5.36 | 3.72      | 4.81  | 2.98         | *5.97 |                | *3.65 | 2.67           | 8.52 |
| 2          |          |                | *7.08  | *7.08          | *10.19 | 8.57           | *7.89 | 6.09           | *6.58 | 4.61           | *5.75 | 3.63      | 4.75  | 2.93         | *6.58 |                | *3.89 | 2.59           | 8.60 |
| 1          |          |                | *5.62  | *5.62          | *11.36 | 8.24           | *8.69 | 5.88           | *7.11 | 4.48           | 5.78  | 3.54      | 4.69  | 2.87         | *7.11 |                | 4.22  | 2.58           | 8.56 |
| O (Ground) | *3.08    | *3.08          | *6.66  | *6.66          | *11.94 | 8.06           | *9.21 | 5.74           | 7.26  | 4.38           | 5.70  | 3.47      | 4.64  | 2.83         | 7.26  |                | 4.31  | 2.63           | 8.40 |
| -1         | *5.53    | *5.53          | *8.59  | *8.59          | *12.03 | 7.98           | *9.41 | 5.66           | 7.19  | 4.32           | 5.66  | 3.43      | 4.62  | 2.81         | 7.19  |                | 4.53  | 2.75           | 8.11 |
| -2         | *7.92    | *7.92          | *11.11 | *11.11         | *11.71 | 7.98           | *9.28 | 5.64           | 7.16  | 4.29           | 5.65  | 3.42      |       |              | 7.16  |                | 4.91  | 2.99           | 7.69 |
| -3         | *10.58   | *10.58         | *14.12 | 13.22          | *10.99 | 8.04           | *8.81 | 5.66           | 7.19  | 4.31           | 5.68  | 3.45      |       |              | 7.19  |                | 5.57  | 3.39           | 7.09 |
| -4         | *13.78   | *13.78         | *12.36 | *12.36         | *9.77  | 8.15           | *7.86 | 5.74           | *6.29 | 4.39           |       |           |       |              | *6.29 |                | *5.86 | 4.11           | 6.28 |
| -5         |          |                | *9.77  | *9.77          | *7.80  | *7.80          | *6.10 | 5.90           |       |                |       |           |       |              |       |                | *5.85 | 5.65           | 5.15 |

Feet Unit: 1,000lb

| A(ft)      | 1      | 0'             | 1        | .5'            | 2        | 0'             | 2        | 25'            | Max. Reach |              |       |  |  |  |
|------------|--------|----------------|----------|----------------|----------|----------------|----------|----------------|------------|--------------|-------|--|--|--|
| B(ft)      |        | ( <del>C</del> | <u> </u> | ( <del>C</del> | <u> </u> | ( <del>c</del> | <u>-</u> | ( <del>-</del> | <u> </u>   | <del>(</del> | A(ft) |  |  |  |
| 25         |        |                |          |                | *8.41    | *8.41          |          |                | *7.41      | *7.41        | 20.73 |  |  |  |
| 20         |        |                |          |                | *9.94    | *9.94          |          |                | *7.28      | *7.28        | 24.45 |  |  |  |
| 15         |        |                |          |                |          | 10.72          | *10.37   | 7.36           | *7.50      | 6.52         | 26.73 |  |  |  |
| 10         | *25.44 | *25.44         | *16.42   | 16.11          | *12.94   | 10.26          | *11.19   | 7.15           | *8.03      | 5.91         | 27.93 |  |  |  |
| 5          | *13.83 | *13.83         | *20.28   | 15.10          | *14.86   | 9.78           | 11.23    | 6.91           | *8.91      | 5.68         | 28.20 |  |  |  |
| O (Ground) | *15.25 | *15.25         | *22.52   | 14.47          | 15.61    | 9.43           | 11.03    | 6.73           | 9.50       | 5.79         | 27.56 |  |  |  |
| -5         | *22.18 | *22.18         | *22.80   | 14.26          | 15.42    | 9.26           | 10.95    | 6.66           | 10.37      | 6.31         | 25.95 |  |  |  |
| -10        | *30.58 | 28.32          | *21.20   | 14.34          | 15.46    | 9.29           |          |                | 12.38      | 7.53         | 23.15 |  |  |  |
| -15        | *23.99 | *23.99         | *17.02   | *17.02 14.70   |          |                |          |                | *12.97     | 10.63        | 18.64 |  |  |  |

#### Option 6

#### Metric

Boom: 5,700mm (18'8") Arm: 2,400mm (7'11") Bucket: SAE/PCSA 1.05m³ (1.4yd³) CECE: 0.9m³ (1.2yd³) Shoe: 800mm (2'8")

| Unit: | 1.00 |
|-------|------|

| (m)        | ·      |        |        | 3      | 4        | 4              | !     | 5     | (     | 5              | 7     |                | 8    | 3    | Max. Reach |              |      |  |
|------------|--------|--------|--------|--------|----------|----------------|-------|-------|-------|----------------|-------|----------------|------|------|------------|--------------|------|--|
| B(m)       |        |        |        |        | <u>-</u> | ( <del> </del> |       |       | 4     | ( <del> </del> | 4     | ( <del> </del> |      |      | 4          | <del>(</del> | A(m) |  |
| 7          |        |        |        |        |          |                |       |       | *5.03 | *5.03          |       |                |      |      | *4.47      | *4.47        | 6.29 |  |
| 6          |        |        |        |        |          |                |       |       | *5.06 | *5.06          | *4.46 | 3.90           |      |      | *4.44      | 3.89         | 7.00 |  |
| 5          |        |        |        |        |          |                | *5.77 | *5.77 | *5.37 | 5.00           | *5.13 | 3.87           |      |      | *4.51      | 3.42         | 7.52 |  |
| 4          |        |        | *10.28 | *10.28 | *7.83    | *7.83          | *6.58 | 6.51  | *5.84 | 4.88           | *5.37 | 3.80           |      |      | *4.66      | 3.12         | 7.87 |  |
| 3          |        |        |        |        | *9.51    | 8.85           | *7.52 | 6.27  | *6.40 | 4.74           | *5.70 | 3.72           | 4.81 | 2.99 | 4.73       | 2.94         | 8.08 |  |
| 2          |        |        |        |        | *10.98   | 8.45           | *8.41 | 6.04  | *6.95 | 4.60           | 5.88  | 3.64           | 4.76 | 2.95 | 4.61       | 2.85         | 8.17 |  |
| 1          |        |        |        |        | *11.86   | 8.20           | *9.07 | 5.87  | 7.37  | 4.49           | 5.80  | 3.56           | 4.72 | 2.90 | 4.61       | 2.84         | 8.12 |  |
| O (Ground) |        |        | *5.72  | *5.72  | *12.14   | 8.08           | *9.43 | 5.76  | 7.28  | 4.41           | 5.74  | 3.51           |      |      | 4.73       | 2.90         | 7.96 |  |
| -1         | *5.52  | *5.52  | *8.70  | *8.70  | *11.96   | 8.05           | *9.46 | 5.71  | 7.24  | 4.36           | 5.71  | 3.49           |      |      | 5.00       | 3.07         | 7.65 |  |
| -2         | *8.80  | *8.80  | *12.21 | *12.21 | *11.41   | 8.08           | *9.16 | 5.71  | 7.24  | 4.36           | 5.72  | 3.50           |      |      | 5.49       | 3.36         | 7.20 |  |
| -3         | *12.33 | *12.33 | *13.09 | *13.09 | *10.45   | 8.16           | *8.47 | 5.77  | *6.88 | 4.41           |       |                |      |      | *6.05      | 3.89         | 6.56 |  |
| -4         | *13.90 | *13.90 | *11.03 | *11.03 | *8.93    | 8.31           | *7.19 | 5.88  |       |                |       |                |      |      | *6.08      | 4.90         | 5.67 |  |
| -5         |        |        |        |        | *6.36    | *6.36          |       |       |       |                |       |                |      |      | *5.73      | *5.73        | 4.38 |  |

Feet Unit: 1,000lb

| A(ft)      | 1      | 0'             | 1             | .5'            | 2      | 20'            | 2      | .5'            | Max. Reach   |                  |       |  |  |
|------------|--------|----------------|---------------|----------------|--------|----------------|--------|----------------|--------------|------------------|-------|--|--|
| B(ft)      | 4      | ( <del> </del> | 7             | ( <del> </del> | 4      | ( <del> </del> | 4      | ( <del>C</del> | <del>I</del> | ( <del>L</del> i | A(ft) |  |  |
| 25         |        |                |               |                |        |                |        |                | *10.05       | *10.05           | 18.74 |  |  |
| 20         |        |                |               |                | *11.11 | 10.92          |        |                | *9.78        | 8.72             | 22.79 |  |  |
| 15         |        |                | *14.13        | *14.13         | *12.15 | 10.64          | *10.73 | 7.33           | *10.06       | 7.21             | 25.22 |  |  |
| 10         | *21.27 | *21.27         | *17.99        | 15.89          | *13.87 | 10.21          | 11.49  | 7.16           | 10.45        | 6.50             | 26.49 |  |  |
| 5          |        |                | *21.44        | 14.98          | *15.59 | 9.78           | 11.27  | 6.96           | 10.13        | 6.25             | 26.78 |  |  |
| O (Ground) | *13.18 | *13.18         | *23.02        | 14.51          | 15.66  | 9.49           | 11.12  | 6.82           | 10.42        | 6.40             | 26.10 |  |  |
| -5         | *23.57 | *23.57         | *22.63        | 14.41          | 15.55  | 9.39           |        |                | 11.52        | 7.06             | 24.39 |  |  |
| -10        | *28.35 | *28.35         | *20.29 14.58  |                | *14.76 | 9.51           |        |                | *13.35       | 8.65             | 21.39 |  |  |
| -15        | *20.56 | *20.56         | *14.76 *14.76 |                |        |                |        |                | *13.15       | *13.15           | 16.39 |  |  |

## **LIFTING CAPACITY**

#### Option 7

#### Metric

Boom: 5,700mm(18'8") Arm: 3,500mm(11'6") Bucket: SAE/PCSA 1.05m³ (1.4yd³) CECE: 0.9m³ (1.2yd3) Shoe: 800mm (2'8") Unit: 1,000kg

| (m)        |          | 2              |          | 3              | 4        | 4              | 5     | 5            | (     | 6        | ;     | 7            | 8        | 8        | 9       | 9            | M     | ax. Reac | h    |
|------------|----------|----------------|----------|----------------|----------|----------------|-------|--------------|-------|----------|-------|--------------|----------|----------|---------|--------------|-------|----------|------|
| B(m)       | <b>4</b> | ( <del> </del> | <b>4</b> | ( <del> </del> | <u>-</u> | ( <del> </del> | 4     | <del>(</del> | 4     | <b>(</b> | 4     | <del>(</del> | <u>F</u> | <b>G</b> | <b></b> | <del>(</del> | 4     | <b>(</b> | A(m) |
| 8          |          |                |          |                |          |                |       |              |       |          |       |              |          |          |         |              | *2.97 | *2.97    | 6.61 |
| 7          |          |                |          |                |          |                |       |              |       |          | *3.54 | *3.54        |          |          |         |              | *2.89 | *2.89    | 7.43 |
| 6          |          |                |          |                |          |                |       |              |       |          | *4.04 | 4.02         | *2.98    | *2.98    |         |              | *2.89 | *2.89    | 8.04 |
| 5          |          |                |          |                |          |                |       |              |       |          | *4.24 | 3.96         | *3.87    | 3.13     |         |              | *2.94 | 2.80     | 8.49 |
| 4          |          |                |          |                |          |                |       |              | *4.83 | *4.83    | *4.57 | 3.87         | *4.39    | 3.08     |         |              | *3.03 | 2.59     | 8.81 |
| 3          |          |                | *9.80    | *9.80          | *7.45    | *7.45          | *6.21 | *6.21        | *5.46 | 4.83     | *4.97 | 3.77         | *4.64    | 3.01     |         |              | *3.18 | 2.45     | 9.00 |
| 2          |          |                | *13.13   | *13.13         | *9.20    | 8.74           | *7.26 | 6.17         | *6.13 | 4.66     | *5.41 | 3.66         | 4.77     | 2.94     | *3.62   | 2.41         | *3.38 | 2.37     | 9.07 |
| 1          |          |                | *8.04    | *8.04          | *10.63   | 8.33           | *8.19 | 5.93         | *6.74 | 4.50     | 5.79  | 3.55         | 4.69     | 2.87     | *3.78   | 2.37         | *3.65 | 2.35     | 9.03 |
| O (Ground) | *3.76    | *3.76          | *7.64    | *7.64          | *11.54   | 8.06           | *8.87 | 5.74         | *7.23 | 4.37     | 5.70  | 3.46         | 4.63     | 2.82     |         |              | 3.94  | 2.39     | 8.88 |
| -1         | *5.45    | *5.45          | *8.73    | *8.73          | *11.93   | 7.92           | *9.25 | 5.62         | 7.16  | 4.28     | 5.63  | 3.40         | 4.59     | 2.78     |         |              | 4.11  | 2.48     | 8.61 |
| -2         | *7.33    | *7.33          | *10.55   | *10.55         | *11.87   | 7.87           | *9.32 | 5.57         | 7.11  | 4.24     | 5.60  | 3.37         | 4.58     | 2.77     |         |              | 4.40  | 2.66     | 8.21 |
| -3         | *9.47    | *9.47          | *13.01   | 12.97          | *11.41   | 7.89           | *9.06 | 5.57         | 7.10  | 4.23     | 5.60  | 3.38         |          |          |         |              | 4.90  | 2.97     | 7.66 |
| -4         | *12.02   | *12.02         | *13.59   | 13.12          | *10.51   | 7.97           | *8.40 | 5.62         | *6.83 | 4.28     |       |              |          |          |         |              | *5.60 | 3.49     | 6.91 |
| -5         | *15.24   | *15.24         | *11.49   | *11.49         | *9.01    | 8.12           | *7.19 | 5.73         |       |          |       |              |          |          |         |              | *5.77 | 4.48     | 5.91 |
| -6         |          |                | *8.30    | *8.30          | *6.51    | *6.51          |       |              |       |          |       |              |          |          |         |              | *5.75 | *5.75    | 4.46 |

Feet Unit:1,000lb

| A(ft)      | 1            | 0'             | :        | 15'          | :      | 20'              | 2          | 5'             | Max. Reach |                  |       |  |  |
|------------|--------------|----------------|----------|--------------|--------|------------------|------------|----------------|------------|------------------|-------|--|--|
| B(ft)      | <del>I</del> | <del>(</del> F | <b>4</b> | <del>(</del> | -      | ( <del>f</del> = | -          | ( <del>]</del> | 4          | ( <del>d</del> e | A(ft) |  |  |
| 25         |              |                |          |              |        |                  |            |                | *6.45      | *6.45            | 22.80 |  |  |
| 20         |              |                |          |              |        |                  | *7.80 7.63 |                | *6.36      | 6.36             | 26.22 |  |  |
| 15         |              |                |          |              |        | *9.93            | *9.48      | 7.48           | *6.55      | 5.95             | 28.35 |  |  |
| 10         |              |                | *14.55   | *14.55       | *11.86 | 10.40            | *10.43     | 7.22           | *6.99      | 5.41             | 29.49 |  |  |
| 5          | *23.19       | *23.19         | *18.77   | 15.29        | *13.97 | 9.85             | 11.27      | 6.94           | *7.71      | 5.20             | 29.75 |  |  |
| O (Ground) | *17.48       | *17.48         | *21.70   | 14.48        | 15.60  | 9.41             | 11.01      | 6.70           | 8.69       | 5.26             | 29.14 |  |  |
| -5         | *21.68       | *21.68         | *22.73   | 14.11        | 15.32  | 9.16             | 10.86      | 6.57           | 9.36       | 5.66             | 27.62 |  |  |
| -10        | *29.55       | 27.78          | *21.90   | 14.08        | 15.27  | 9.12             | 10.89      | 6.59           | 10.88      | 6.58             | 25.02 |  |  |
| -15        | *27.18       | *27.18         | *18.87   | 14.34        | *13.48 | 9.32             |            |                | *12.58     | 8.74             | 20.92 |  |  |
| -20        |              |                |          |              |        |                  |            |                | *12.60     | *12.60           | 14.05 |  |  |

#### Option 8

#### Metric

Boom: 8,500mm (27'8") Arm: 6,200mm (20'3") Bucket: SAE/PCSA: 0.39m³ (0.51yd³) CECE: 0.35m³ (0.46yd³) Shoe: 600mm (2')

Unit: 1,000kg

| (m)       | \       |                | :     | 3            |       |          |       | 5            |       | (            | 6 7   |              | 7 8   |              | 9        |          | 10    |              | 11    |          | 12    |              |          |       | 14    |           | Max. Reach |          | ach    |
|-----------|---------|----------------|-------|--------------|-------|----------|-------|--------------|-------|--------------|-------|--------------|-------|--------------|----------|----------|-------|--------------|-------|----------|-------|--------------|----------|-------|-------|-----------|------------|----------|--------|
| B(m)      | <u></u> | ( <del> </del> | 4     | <del>G</del> | 5     | <b>(</b> | Ē     | <del>(</del> | J     | <del>[</del> | 4     | <del>G</del> | J     | <del>(</del> | <u> </u> | <b>(</b> | J     | <del>(</del> | £     | <b>(</b> | £     | <del>G</del> | <u> </u> | G+    | £     | <b>(+</b> | <u>F</u>   | <b>(</b> | A(m)   |
| 12        |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          |       |              |       |          |       |              |          |       |       |           | *1.02      | *1.02    | @9.70  |
| 11        |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          | *1.66 | *1.66        |       |          |       |              |          |       |       |           | *0.98      | *0.98    | @10.66 |
| 10        |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          | *2.10 | *2.10        | *1.50 | *1.50    |       |              |          |       |       |           | *0.95      | *0.95    | @11.46 |
| 9         |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          | *2.28 | *2.28        | *2.00 | *2.00    | *1.12 | *1.12        |          |       |       |           | *0.94      | *0.94    | @12.11 |
| 8         |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          | *2.33 | *2.33        | *2.31 | 2.24     | *1.74 | *1.74        |          |       |       |           | *0.94      | *0.94    | @12.66 |
| 7         |         |                |       |              |       |          |       |              |       |              |       |              |       |              |          |          | *2.42 | *2.42        | *2.39 | 2.21     | *2.13 | 1.85         | *1.12    | *1.12 |       |           | *0.94      | *0.94    | @13.10 |
| 6         |         |                |       |              |       |          |       |              |       |              |       |              |       |              | *2.63    | *2.63    | *2.55 | *2.55        | *2.48 | 2.18     | *2.44 | 1.83         | *1.64    | 1.53  |       |           | *0.96      | *0.96    | @13.46 |
| 5         |         |                |       |              |       |          |       |              |       |              |       |              | *3.02 | *3.02        | *2.85    | *2.85    | *2.71 | 2.54         | *2.60 | 2.13     | *2.51 | 1.8          | *2.01    | 1.52  |       |           | *0.98      | *0.98    | @13.73 |
| 4         |         |                |       |              |       |          |       |              |       |              | *3.69 | *3.69        | *3.35 | *3.35        | *3.09    | 2.96     | *2.89 | 2.47         | *2.73 | 2.08     | *2.61 | 1.76         | *2.30    | 1.5   |       |           | *1.00      | *1.00    | @13.92 |
| 3         |         |                |       |              | *7.66 | *7.66    | *5.88 | *5.88        | *4.84 | *4.84        | *4.16 | *4.16        | *3.69 | 3.44         | *3.35    | 2.85     | *3.08 | 2.4          | *2.88 | 2.03     | *2.72 | 1.72         | 2.43     | 1.47  | *1.13 | *1.13     | *1.04      | *1.04    | @14.04 |
| 2         |         |                |       |              | *5.32 | *5.32    | *6.86 | 6.52         | *5.50 | 5.03         | *4.64 | 4.03         | *4.04 | 3.3          | *3.60    | 2.75     | *3.28 | 2.32         | *3.02 | 1.97     | 2.75  | 1.68         | 2.4      | 1.44  | *1.29 | 1.23      | *1.08      | *1.08    | @14.09 |
| 1         |         |                |       |              | *3.48 | *3.48    | *7.66 | 6.15         | *6.08 | 4.78         | *5.06 | 3.85         | *4.36 | 3.17         | *3.85    | 2.65     | *3.46 | 2.25         | 3.11  | 1.91     | 2.7   | 1.64         | 2.37     | 1.41  | *1.29 | 1.21      | *1.13      | *1.13    | @14.07 |
| O(Ground) |         |                |       |              | *3.21 | *3.21    | *6.46 | 5.89         | *6.54 | 4.58         | *5.42 | 3.7          | *4.63 | 3.06         | *4.06    | 2.57     | 3.54  | 2.18         | 3.06  | 1.86     | 2.67  | 1.6          | 2.34     | 1.39  |       |           | *1.20      | *1.20    | @13.97 |
| 1         |         |                | *2.08 | *2.08        | *3.48 | *3.48    | *6.02 | 5.73         | *6.85 | 4.44         | *5.69 | 3.58         | 4.83  | 2.97         | 4.07     | 2.49     | 3.48  | 2.12         | 3.01  | 1.82     | 2.63  | 1.57         | 2.32     | 1.36  |       |           | *1.27      | 1.22     | @13.80 |
| 2         | *2.14   | *2.14          | *2.77 | *2.77        | *4.00 | *4.00    | *6.20 | 5.64         | *7.03 | 4.35         | 5.79  | 3.5          | 4.76  | 2.9          | 4.01     | 2.44     | 3.43  | 2.08         | 2.98  | 1.79     | 2.61  | 1.55         | 2.31     | 1.35  |       |           | *1.36      | 1.26     | @13.56 |
| 3         | *2.88   | *2.88          | *3.51 | *3.51        | *4.69 | *4.69    | *6.74 | 5.6          | *7.09 | 4.3          | 5.73  | 3.45         | 4.71  | 2.85         | 3.96     | 2.4      | 3.4   | 2.05         | 2.95  | 1.77     | 2.59  | 1.54         | *2.14    | 1.35  |       |           | *1.48      | 1.31     | @13.23 |
| 4         | *3.65   | *3.65          | *4.32 | *4.32        | *5.51 | *5.51    | *7.54 | 5.6          | *7.03 | 4.28         | 5.7   | 3.43         | 4.68  | 2.82         | 3.94     | 2.38     | 3.38  | 2.03         | 2.94  | 1.76     | 2.59  | 1.53         |          |       |       |           | *1.62      | 1.39     | @12.82 |
| - 5       | *4.46   | *4.46          | *5.20 | *5.20        | *6.46 | *6.46    | *8.25 | 5.63         | *6.86 | 4.29         | 5.7   | 3.43         | 4.68  | 2.82         | 3.94     | 2.37     | 3.38  | 2.03         | 2.95  | 1.76     | 2.61  | 1.55         |          |       |       |           | *1.80      | 1.49     | @12.31 |
| 6         | *5.34   | *5.34          | *6.18 | *6.18        | *7.58 | *7.58    | *7.85 | 5.69         | *6.58 | 4.32         | *5.61 | 3.45         | 4.69  | 2.84         | 3.95     | 2.39     | 3.4   | 2.05         | 2.97  | 1.78     |       |              |          |       |       |           | *2.04      | 1.64     | @11.69 |
| 7         | *6.31   | *6.31          | *7.30 | *7.30        | *8.84 | 8.21     | *7.30 | 5.77         | *6.16 | 4.38         | *5.27 | 3.49         | *4.55 | 2.87         | *3.93    | 2.42     | *3.37 | 2.09         |       |          |       |              |          |       |       |           | *2.38      | 1.85     | @10.95 |
| 8         | *7.40   | *7.40          | *8.61 | *8.61        | *7.88 | *7.88    | *6.57 | 5.89         | *5.57 | 4.47         | *4.77 | 3.56         | *4.09 | 2.94         | *3.46    | 2.49     | *2.80 | 2.16         |       |          |       |              |          |       |       |           | *2.76      | 2.15     | @10.05 |
| 9         |         |                | *8.11 | *8.11        | *6.64 | *6.64    | *5.59 | *5.59        | *4.75 | 4.59         | *4.04 | 3.67         | *3.37 | 3.04         |          |          |       |              |       |          |       |              |          |       |       |           | *2.67      | 2.62     | @8.95  |
| 10        |         |                |       |              |       |          | *4.24 | *4.24        | *3.56 | *3.56        | *2.87 | *2.87        |       |              |          |          |       |              |       |          |       |              |          |       |       |           | *2.46      | *2.46    | @7.53  |

Feet Unit:1,000lb

| A(ft)     | 1        | 0              | 1        | 5              | 2        | 0        | 2        | 5        | 3     | 0        | 3     | 5            | 4     | 0            | 4        | 5       | Ma           | ax. Reac     | h      |
|-----------|----------|----------------|----------|----------------|----------|----------|----------|----------|-------|----------|-------|--------------|-------|--------------|----------|---------|--------------|--------------|--------|
| B(ft)     | <u> </u> | ( <del> </del> | <u> </u> | ( <del>]</del> | <u>-</u> | <b>(</b> | <u> </u> | <b>(</b> | 4     | <u>(</u> | 4     | <del>[</del> | 4     | <del>[</del> | <u>-</u> | <u></u> | <del>I</del> | <del>(</del> | A(ft)  |
| 40        |          |                |          |                |          |          |          |          |       |          |       |              |       |              |          |         | *2.27        | *2.27        | @31.16 |
| 35        |          |                |          |                |          |          |          |          |       |          | *2.91 | *2.91        |       |              |          |         | *2.13        | *2.13        | @35.91 |
| 30        |          |                |          |                |          |          |          |          |       |          | *4.65 | *4.65        |       |              |          |         | *2.07        | *2.07        | @39.46 |
| 25        |          |                |          |                |          |          |          |          |       |          | *5.19 | *5.19        | *3.86 | *3.86        |          |         | *2.07        | *2.07        | @42.12 |
| 20        |          |                |          |                |          |          |          |          | *5.73 | *5.73    | *5.49 | 5.1          | *5.08 | 3.91         |          |         | *2.10        | *2.10        | @44.05 |
| 15        |          |                |          |                |          |          | *7.16    | *7.16    | *6.44 | *6.44    | *5.94 | 4.93         | *5.59 | 3.81         | *2.63    | *2.63   | *2.18        | *2.18        | @45.34 |
| 10        |          |                | *14.23   | *14.23         | *10.43   | *10.43   | *8.45    | 8.2      | *7.26 | 6.14     | *6.46 | 4.73         | *5.92 | 3.69         | *3.63    | 2.88    | *2.28        | *2.28        | @46.06 |
| 5         |          |                | *16.00   | 15.8           | *12.53   | 10.58    | *9.73    | 7.67     | *8.08 | 5.81     | *7.00 | 4.52         | 5.86  | 3.56         | *4.09    | 2.82    | *2.43        | *2.43        | @46.22 |
| O(Ground) |          |                | *10.57   | *10.57         | *14.13   | 9.89     | *10.81   | 7.23     | *8.80 | 5.52     | 7.07  | 4.33         | 5.73  | 3.44         | *3.94    | 2.75    | *2.64        | *2.64        | @45.84 |
| -5        | *5.47    | *5.47          | *10.78   | *10.78         | *15.06   | 9.46     | 11.34    | 6.92     | 8.69  | 5.3      | 6.91  | 4.18         | 5.63  | 3.35         |          |         | *2.90        | 2.73         | @44.89 |
| -10       | *7.92    | *7.92          | *12.68   | *12.68         | *15.35   | 9.26     | 11.14    | 6.73     | 8.54  | 5.16     | 6.81  | 4.08         | 5.58  | 3.3          |          |         | *3.27        | 2.9          | @43.35 |
| -15       | *10.71   | *10.71         | *15.62   | 14.19          | *15.06   | 9.22     | 11.08    | 6.67     | 8.48  | 5.11     | 6.78  | 4.06         | 5.6   | 3.31         |          |         | *3.78        | 3.18         | @41.14 |
| -20       | *13.97   | *13.97         | *18.66   | 14.42          | *14.20   | 9.32     | 11.13    | 6.72     | 8.52  | 5.15     | 6.84  | 4.11         |       |              |          |         | *4.55        | 3.66         | @38.14 |
| -25       | *17.98   | *17.98         | *16.35   | 14.79          | *12.63   | 9.55     | *10.00   | 6.88     | *7.90 | 5.3      |       |              |       |              |          |         | *5.87        | 4.45         | @34.16 |
| -30       | *17.09   | *17.09         | *12.84   | *12.84         | *10.01   | 9.93     | *7.68    | 7.21     |       |          |       |              |       |              |          |         | *5.83        | *5.83        | @28.77 |

### **STANDARD & OPTION**

#### **STANDARD EQUIPMENT**

#### Boom & Arm

- 5.7m Boom (Heavy duty)
- 2.9m Arm (Heavy duty)

#### Hydraulic system

- Boom and arm flow regeneration
- Boom and arm holding valves
- Swing anti-rebound valves
- Spare ports (Control valve)
- One-touch power boost

#### **Cabin & Interior**

- Viscous cab mounts
- All weather sound suppressed type cab
- Air conditioner & Heater
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- LCD color monitor panel
- E/G RPM control dial
- AM/FM radio + MP3 (USB)Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sun visor
- Sun roof

#### Safety

- Large handrails and step
- Convex metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rearview mirrors
- Travel alarm
- Battery protector cover

#### Others

- Double element air cleaner
- Additional water separator
- Dry type pre cleaner
- Fuel filter
- Dust screen for radiator/oil cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator (24V, 50 amps)
- Electric horn
- Halogen working lights (frame mounted 1, boom mounted 2)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter
- Long & Fixed track

#### **OPTIONAL EQUIPMENT**

Some of optional equipments may be standard in some markets. Some of this optional equipment is not available in some markets. You must check with the local DOOSAN dealer to know about the availability or to release the adaptation following the needs of the applications

#### Boom & Arm

- 5.2m Boom
- 5.7m Boom
- 8.5m Boom
- 2.0m Arm
- 2.4m Arm
- 2.4m Arm (Heavy duty)
- 2.9m Arm
- 2.9m Arm (Forestry)
- 3.5m Arm
- 6.2m Arm

#### Safety

- Boom and arm hose rupture protection valve
- Overload warning device
- Cabin Top/Front guard (ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotating / Telescopic beacon
- Lock valve
- Rear lamp for number plate

#### Cabin & Interior

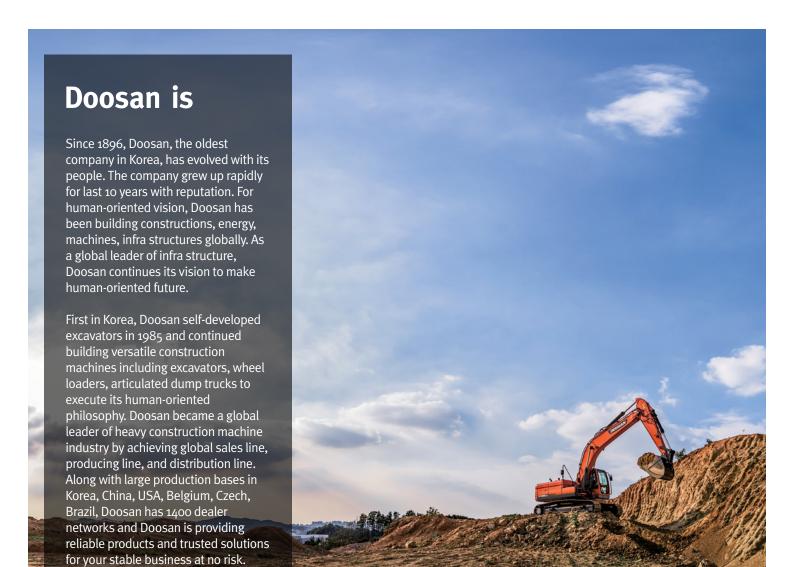
- Air suspension seat
- Rain Shield
- High seat Mount
- Breaker pedal
- ROPS/FOGS Cabin
- Cabin front guard (Upper and lower guard)
- Steel roof cover
- Side mirror

#### Others

- Piping for crusher
- Piping for quick clamp
- Piping option
- Breaker with flow control valve Crusher
- Crusher with tilting Rotating
- Clamshell Quick Clamp
- 700mm / 800mm / 900mm shoe
- Lower wiper
- 60A/80A alternator
- Fuel filler pump
- Working Lights
- 4-front / 2-rear on cabin

- 1 on counterweight

- 2-front on cabin
- Counterweight (3.8 Ton / 5.3 Ton)
- Noise Kit
- Hydraulic Oil
- Cold weather (VG32) - Normal (VG46)
- Tropical weather (VG68)
- Breaker filter
- Water separator with heater
- Oil washed pre cleaner
- Heavy duty under cover
- Short & Fixed trackForestry & Fixed track
- Heavy duty & Fixed track





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