Construction Equipment

DX220LCA-2

Engine Power: SAE J1349, net 109 kW (148 PS) @ 1,800 rpm
Operational Weight: 20,800 kg – 22,000 kg
Bucket Capacity (SAE/PCSA): 0.92 – 1.08 m³
SIMPLE AND ESSENTIAL, JUST RIGHT FOR YOUR DAILY WORK

DX220LCA-2 delivers high productivity with outstanding fuel efficiency at a much more reasonable TCO (total cost of owning & operation) than others of the same class. Above all, its fuel consumption per hour has been dramatically improved by up to 12%* or more against others of the same class by using quality-proven key components along with the engine, MCV and hydraulic system, which are newly developed and enhanced by Doosan technologies. It also comes with a breaker package optimized for breaker operation only and operator’s seat simply designed for greater operational focus, thereby further increasing work efficiency.

* Above result is based on internal test, against the same operation weight machine.
INTRODUCING A WHOLE NEW DX220LCA-2

NEWLY DEVELOPED AND IMPROVED, YET STEADY AS ALWAYS, NEW AND QUALITY-PROVEN MACHINE FOR YOUR DAILY OPERATION

KEY COMPONENTS NEWLY DEVELOPED/ENHANCED WITH DOOSAN’S TECHNOLOGIES

Doosan offers you excellent performance and durability with its own design and manufacturing technologies.

1. DB58TIS DOOSAN ENGINE
- DX220LCA-2 runs on Doosan DB58TIS engine, one of the most widely-used engines in Doosan. Doosan DB58TIS engine has already gained recognition in the market for reliability, low fuel consumption and easy maintenance with quality that has been validated.

2. NEW DOOSAN MCV
Manufactured with Doosan’s technologies, this new version of MCV is more fuel-efficient than its previous model.

3. ENHANCEMENTS TO MAIN PUMP
This new main pump developed for DX220LCA-2 helps improve fuel economy with optimized cylinders and higher system pressures.

4. QUALITY-PROVEN, RELIABLE FRAMES AND HYDRAULIC SYSTEMS
DX220LCA-2 is built with the frames and hydraulic systems that are proven to be high quality over a long period of time. Count on us for all of your works.
Main/bottom frames, undercarriage, swing bearing, sprocket roller, boom and arm are designed for a high degree of durability that you can rely on.

5. NEW DECALS
Bigger and more visible decals make DX220LCA-2 stand out anywhere of your job site.

6. HEAVY-DUTY FRONT
Reinforced castings and forged steel pivot points and reinforced heavy-duty arm and boom to withstand high-impact materials.
- To better protect the base of the arm, reinforced bars have been added and the arm center and end boss have been strengthened.

7. NEW GP (GENERAL PURPOSE) BUCKET
GP bucket installed onto DX220LCA-2 as a base spec with open type side cutters allows you to efficiently perform loading operations.

FUEL EFFICIENCY UP UP UP!
The enhancements to the hydraulic systems of DX220LCA-2 enable you to use engine power in a more effective manner. DX220LCA-2 is capable of performing the same intensity of operations at much lower fuel consumption than others of the same class, significantly increasing your work efficiency.

* Above result is based on internal test, against the same operating weight machine.

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.

* Above image may differ from actual product.

PUMP MATCHING TECHNOLOGY
Engine & pump matching, the new technology of Doosan, fully resolves problems; low response time of the system, unnecessary fuel consumption. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.
BREAKER SYSTEM CUSTOMIZED TO YOUR BUSINESS

DX220LCA-2 HELPS YOU PERFORM BREAKER OPERATIONS WITH A BREAKER PACKAGE OPTIMIZED FOR A GREAT NUMBER OF BREAKER OPERATIONS.

- DX220LCA-2 is installed with a pedal tailored for breaker and a joystick with breaker-only button.
- On top of this, the breaker return line uses its own filter that will extend the life of hydraulic components during breaker operations.
- All of these features are available to you to conduct a crushing operation as effectively as you would hope.

DIFFERENT TYPES OF PERFORMANCE TESTINGS, ENSURING BEST BREAKER PERFORMANCE
- Performance testings of breaker carried out at actual job sites currently being operated in Korea and overseas regions.
- Throughout these testings, DX220LCA-2 comes with a breaker that is more solid and powerful than before.
- The customers who took part in these testings were "very satisfied" with the performances of all equipment.

BREAKER PACKAGE (OPTION)
Do not think too much. All you need to do is to just select this breaker option.
- DX220LCA-2 is installed with a pedal tailored for breaker and a joystick with breaker-only button.

Above image may differ from actual product.
MONITOR
- It is not confusing and complex anymore. You can get exactly the kind of information you need to know through this new monitor at ease.
- When running your machine, it gives you the information you need most effectively with different modes as in the eco-zone mode activated for the most fuel-efficient sector, the power mode required for the most powerful operation and beyond.

COMFORTABLE JOYSTICK
With the completely redesigned joystick buttons, you can now use the most frequently used features at the tip of your fingers with this new joystick.

A SPACIOUS CABIN WITH ENHANCED COMFORT

DX220LCA-2 COMES WITH A NEATLY DESIGNED CABIN WITH NO REDUNDANCY IN IT. YOU CAN NEVER FIND ANYTHING THAT GETS IN THE WAY OF RUNNING YOUR MACHINE. EXPERIENCE THE COMFORT OF WORKING IN A MORE SPACIOUS CABIN.

AUTO IDLE SELECTOR BUTTON
Auto idle system is activated when the auto idle selector button is pushed, an indicator light turns on

POWER MODE SELECTOR BUTTON
This power mode is suitable for heavy duty work that requires a high operating speed. Push this button to turn power mode "ON" or "OFF"

WORK MODE SELECTOR BUTTON
Breaker mode activated when this button is pushed, a indicator light in monitor turns “On”

HORN BUTTON
This button is for blowing a horn

BREAKER OPERATING BUTTON
When this button is pushed, hydraulic flow supplied to auxiliary hydraulic line

AUTO IDLE SELECTOR BUTTON
Auto idle system is activated when the auto idle selector button is pushed, an indicator light turns on

POWER MODE SELECTOR BUTTON
This power mode is suitable for heavy duty work that requires a high operating speed. Push this button to turn power mode “ON” or “OFF”
ARE YOU WORRIED ABOUT YOUR MACHINE MAINTENANCE? DON’T BE. DOOSAN’S MAINTENANCE SERVICE PROGRAM IS AT YOUR SERVICE AND THIS WHOLE NEW DX220LCA-2 IS ALSO PART OF IT. TRUST DOOSAN.

PRIDE OF DOOSAN, DOOSAN MAINTENANCE

1. PRE-CLEANER
   A rotor type of pre-cleaner in DX220LCA-2 filters out particles larger than 20 microns with over 99% accuracy.

2. WATER SEPARATOR
   A greater capacity of water separator helps improve engine durability.

3. ENHANCED RESERVE TANK
   This new reserve tank, that is bigger in size and more effective in UV protection, has reduced failure risks.

4. GREATER COOLING CAPACITY
   A larger cooling module and a longer life for your machine.

5. NEW VERTICAL FUEL LEVEL SENSOR
   You can get more accurate information about the remaining fuel level regardless of the product positions.

6. HARNESS
   Fixing connectors onto a certain location with excellent quality of harnesses further enhanced thermal resistance performance of the harnesses.

7. NEW GREASE VALVE FOR IDLER CYLINDER
   Separate design of injection and discharge of grease reduced a failure risk in valves.

We redoubled our efforts for easier maintenance.
TELEMATICS SERVICE (OPTIONAL)

GLOBAL PARTS NETWORK

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

The global network of the GPDC (Global Parts Distribution Center) maximizes its supply rate by making sure that each center is stockpiled with all the critical parts required for businesses in its area. The network also minimizes the time and costs required for parts delivery by positioning PDCs close to major markets around the world. Doosan PDCs communicate with customers in their time zone, informing them that they are open for operation, and deliver parts to them as early as possible.

The Global Parts Distribution Center Network

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

DOSSAN PDC (PARTS DISTRIBUTION CENTER) NETWORK

Doosan, Dealer, Customer can easily monitor the GPS, EPOS™ data from Core Telematics Service web.

BENEFITS

- Distribution Cost Reduction
- Maximum Parts supply rate
- Shortest distance/time parts delivery
- Real-time service support
- Minimum downtime

TELECOMMUNICATIONS

Data flow from machine to web

GLOBAL NETWORK

BENEFITS

- JOB SITE MANAGEMENT
- WORK EFFICIENCY MANAGEMENT
- PREVENTIVE MAINTENANCE
- PROACTIVE SERVICE

TELEMATICS SERVICE TERMINAL

Telematics Service terminal is installed to machine / connected to EPOS™

TELECOMMUNICATION

GPS, EPOS™ data is sent to designated server by GSM, Satellite telecommunication

DOOSAN TELEMATICS SERVICE WEB

Doosan, Dealer, Customer can easily monitor the GPS, EPOS™ data from Core Telematics Service web

TELEMATICS SERVICE BENEFITS

- JOB SITE MANAGEMENT
- WORK EFFICIENCY MANAGEMENT
- PREVENTIVE MAINTENANCE
- PROACTIVE SERVICE

FUNCTIONS

- Location
  - GPS
  - Geo-fence
- Reports
  - Periodic operation report
  - Utilization
- Operation Trend
  - Total operation hour
  - Operation hour by mode
- Fuel Efficiency*
  - Fuel level
  - Fuel consumption
- Filter & Oil Management
  - Preventive maintenance by item replacement cycle
- Warning & Alert
  - Detect machine warnings
  - Antenna disconnection
  - Geo/Time fence
- Alarm

- Customer
  - 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 developing new machine

* Functions may not be applied to all models. Please contact your sales representative to get more information of the service.

PDC : Parts Distribution Center

MPDC : Mother Parts Distribution Center

PDC : Parts Distribution Center
**TECHNICAL SPECIFICATIONS**

**ENGINE**
- **Model:** DOOSAN DB58TIS
- **Type:** 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 TIER II
- **Number of cylinders:** 6
- **Rated Horse Power:**
  - 113 kW (SAE) @ 1,800 rpm (ISO 10567) 109 kW (ISO 995, Gross)
  - 2.9m Arm (HD)
- **Max torque:** 66 kgf.m @ 1,400 rpm
- **Piston displacement:** 5,785cc
- **Bore & Stroke:** 102 mm x 118 mm
- **Starting Motor:**
  - 24 V (12 V x 2 / 100 AH)
  - Double element and Air cleaner
- **Batteries:**
  - 24 V x 4.5 kW
  - 2 x 2 / 100 AH

**HYDRAULIC SYSTEM**
- **Main pumps:**
  - Swash Plate, Axial Piston
  - Max. Flow: 2 x 207 l/min
  - Displacement: 115 X 2 cc/rev
- **Pilot pump:**
  - Gear pump - max flow: 27 l/min
  - Pilot pump: 15 cc/rev
- **Main relief Pressure:**
  - Maximum system pressure : 350 kgf/cm²
  - Main system pressure : 350kgf/cm²
  - Travel system pressure : 350kgf/cm²
  - Swing system pressure : 270kgf/cm²

**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:**
    - Boom: 2
    - Arm: 1
    - Bucket: 1
  - **Bore x Rod diameter x stroke:**
    - **Boom:** 120 X 85 X 1,263 mm
    - **Arm:** 115 X 95 X 1,490 mm
    - **Bucket:** 115 X 80 X 1,060 mm
- **With Cutter**
  - **4,445 mm for LC track, 4,065 mm for STD track**
  - **Overall track length:** 4,445 mm for LC track, 4,065 mm for STD track

**WEIGHT**
- **5.7 m Heavy Duty Boom, 2.9 m Heavy Duty Arm, 0.92 m² Bucket, 3.8 Ton Counterweight**
- **Machine Weight**
  - **Shoe width (mm):**
    - 600: 0.65, 0.49, 21.3, 21.8
    - 800: 0.35, 0.38, 22.0, 21.4
  - **Ground pressure:**
    - 600: 0.45
    - 800: 0.35

**BUCKET**
- **LC Track, 3.8 Ton Counterweight, 600 mm Shoe**
- **Capacity (m³)**
  - GP: 0.92
  - H-CLASS: 1.08
- **Width (mm)**
  - GP: 1,356
  - H-CLASS: 1,200
- **Weight (kg)**
  - GP: 871
  - H-CLASS: 939
- **5.7 MONO Boom (HD)**
  - 2.4m Arm: A
  - 2.9m Arm (HD): A

**SWING MECHANISM**
- **High torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is singlerow, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant.**
- **Swing Speed:**
  - 10.9 rpm
- **Swing Torque:** 6.46 ton.m

**UNDERCARRIAGE**
- **Chassis are of very robust construction, all welded structures are designed to limit stress. 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 seals. Tracks shoes made of induction-hardened alloy with triple grousers. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.**
- **Upper rollers:** 2
- **Lower rollers:** 8 for LC track, 7 for STD track
- **Track shoes:**
  - 49 for LC track, 45 for STD track
- **Overall track length:** 4,445 mm for LC track, 4,065 mm for STD track
- **Gradeability:** 70%

**DRIVE**
- **Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gear. Two levers or foot pedal control provide smooth travel or counter-rotation upon demand.**

**TRAVEL SYSTEM**
- **Swing Torque:** 6.46 ton.m
- **Maximum traction force:** 22.50 / 10.28 ton

**REFFILL CAPACITIES**
- **Fuel Tank:**
  - 392 l
- **Cooling System:**
  - 25.6 l
- **Engine Oil:**
  - 28 l
- **Swing Drive:**
  - 5 l
- **Final Drive:**
  - 2 x 3.3 l
- **Hydraulic Tank:**
  - 131 l

**BUCKET DIGGING FORCES**
- **Capacity (m³)**
  - GP: 0.92
  - H-CLASS: 1.08
  - LC Track: 1.458
  - STD Track: 1.316
- **Width (mm)**
  - GP: 1,356
  - H-CLASS: 1,200
  - LC Track: 1,450
  - STD Track: 1,246
- **Digging force (Tons)**
  - GP: 1.316
  - H-CLASS: 1,246
  - LC Track: 1,409
  - STD Track: 1,296

**ARM DIGGING FORCES**
- **Arm**
  - **Length (mm):**
    - HD Arm: 2,410
    - SHORT Arm: 2,000
  - **Weight (kg):**
    - HD Arm: 753
    - SHORT Arm: 669
  - **Digging force (Tons):**
    - HD Arm: [SAE] 12.6, [ISO] 14.0
    - SHORT Arm: [SAE] 11.0, [ISO] 11.5

**Based on ISO 10567 and SAE J296, arm length without quick change clamp:**
- A: Suitable for materials with density of 2,000 kg/m³ (2,000 lb/ft³) or less
- B: Suitable for materials with density of 1,000 kg/m³ (1,000 lb/ft³) or less
- C: Suitable for materials with density of 500 kg/m³ (500 lb/ft³) or less
- D: Suitable for materials with density of 300 kg/m³ (300 lb/ft³) or less
- -: Not recommended

**Note:** The values are rounded for practical use.
**LIFTING CAPACITY**

1. Load point is the end of the arm.
2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
3. Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
4. The least stable position is over the side.
5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
6. Lift capacities are in compliance with ISO 10567.

### STANDARD

<table>
<thead>
<tr>
<th>Metric</th>
<th>Boom: 5,700 mm (18' 7&quot;)</th>
<th>Arm: 2,900 mm (9' 5&quot;)</th>
<th>Shoe: 800 mm (2' 6&quot;)</th>
<th>Counter Weight: 3,840 kg (8,466 lb)</th>
<th>STD track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit: 1,000 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Reach</strong></td>
<td>A(m)</td>
<td>B(m)</td>
<td>Feet</td>
<td><strong>Rating Over Front</strong></td>
<td><strong>Rating Over Side or 360 Degree</strong></td>
</tr>
<tr>
<td>1.5</td>
<td>20</td>
<td>10.61</td>
<td>10.16</td>
<td>6.03</td>
<td>6.05</td>
</tr>
<tr>
<td>3</td>
<td>15</td>
<td>11.61</td>
<td>9.77</td>
<td>6.15</td>
<td>5.81</td>
</tr>
<tr>
<td>4.5</td>
<td>10</td>
<td>17.02</td>
<td>14.07</td>
<td>13.20</td>
<td>13.57</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>20.17</td>
<td>12.89</td>
<td>14.79</td>
<td>10.68</td>
</tr>
<tr>
<td>7.5</td>
<td>0</td>
<td>12.56</td>
<td>12.08</td>
<td>10.86</td>
<td>8.06</td>
</tr>
<tr>
<td>9</td>
<td>-1.5</td>
<td>6.22</td>
<td>6.22</td>
<td>6.22</td>
<td>6.22</td>
</tr>
<tr>
<td>10</td>
<td>-3</td>
<td>10.59</td>
<td>10.59</td>
<td>12.38</td>
<td>8.88</td>
</tr>
<tr>
<td>11.5</td>
<td>-4.5</td>
<td>9.38</td>
<td>9.38</td>
<td>6.85</td>
<td>6.85</td>
</tr>
<tr>
<td>13</td>
<td>-6</td>
<td>5.70</td>
<td>5.70</td>
<td>9.83</td>
<td>9.83</td>
</tr>
<tr>
<td>15</td>
<td>-10</td>
<td>23.34</td>
<td>23.34</td>
<td>27.29</td>
<td>27.29</td>
</tr>
<tr>
<td>20</td>
<td>-15</td>
<td>20.68</td>
<td>20.68</td>
<td>15.09</td>
<td>15.09</td>
</tr>
</tbody>
</table>

### OPTION

<table>
<thead>
<tr>
<th>Metric</th>
<th>Boom: 5,700 mm (18' 7&quot;)</th>
<th>Arm: 2,900 mm (9' 5&quot;)</th>
<th>Shoe: 600 mm (2' 0&quot;)</th>
<th>Counter Weight: 3,840 kg (8,466 lb)</th>
<th>LC track</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unit: 1,000 kg</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Max. Reach</strong></td>
<td>A(m)</td>
<td>B(m)</td>
<td>Feet</td>
<td><strong>Rating Over Front</strong></td>
<td><strong>Rating Over Side or 360 Degree</strong></td>
</tr>
<tr>
<td>1.5</td>
<td>20</td>
<td>10.61</td>
<td>10.16</td>
<td>6.03</td>
<td>6.05</td>
</tr>
<tr>
<td>3</td>
<td>15</td>
<td>11.61</td>
<td>9.77</td>
<td>6.15</td>
<td>5.81</td>
</tr>
<tr>
<td>4.5</td>
<td>10</td>
<td>17.02</td>
<td>14.07</td>
<td>13.20</td>
<td>13.57</td>
</tr>
<tr>
<td>6</td>
<td>5</td>
<td>20.17</td>
<td>12.89</td>
<td>14.79</td>
<td>10.68</td>
</tr>
<tr>
<td>7.5</td>
<td>0</td>
<td>12.56</td>
<td>12.08</td>
<td>10.86</td>
<td>8.06</td>
</tr>
<tr>
<td>9</td>
<td>-1.5</td>
<td>6.22</td>
<td>6.22</td>
<td>6.22</td>
<td>6.22</td>
</tr>
<tr>
<td>10</td>
<td>-3</td>
<td>10.59</td>
<td>10.59</td>
<td>12.38</td>
<td>8.88</td>
</tr>
<tr>
<td>11.5</td>
<td>-4.5</td>
<td>9.38</td>
<td>9.38</td>
<td>6.85</td>
<td>6.85</td>
</tr>
<tr>
<td>13</td>
<td>-6</td>
<td>5.70</td>
<td>5.70</td>
<td>9.83</td>
<td>9.83</td>
</tr>
<tr>
<td>15</td>
<td>-10</td>
<td>23.34</td>
<td>23.34</td>
<td>27.29</td>
<td>27.29</td>
</tr>
<tr>
<td>20</td>
<td>-15</td>
<td>20.68</td>
<td>20.68</td>
<td>15.09</td>
<td>15.09</td>
</tr>
</tbody>
</table>

1. Load point is the end of the arm.
2. Capacities marked with an asterisk (*) are limited by hydraulic capacities.
3. Lift capacities shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities.
4. The least stable position is over the side.
5. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer.
6. Lift capacities are in compliance with ISO 10567.
**STANDARD & OPTION**

**STANDARD EQUIPMENT**

- **Fronts**
  - 5.9 m Heavy Duty Boom
  - 2.9 m Heavy Duty Arm
- **Hydraulic system**
  - Boom and Arm flow regeneration
  - Boom and Arm holding valves
  - Swing anti-rebound valves
- **Cabin & Interior**
  - Viscous cab mounts
  - E/G RPM control dial
  - Serial communication port for laptop PC interface
  - Cup holder
  - Seat belt
  - 12V spare power socket
  - Room light
  - All weather sound suppressed type CAB.
  - Viscous cab mounts
- **Others**
  - Double element air cleaner with two stage filtration
  - Dry type Pre Air Cleaner
  - Two stage water separator
  - Fuel filter
  - Engine overheat prevention system
  - Engine restart prevention system
  - Self-diagnostic system
  - Alternator (24V, 60A)
  - Electric horn
  - Working lights (1 boom mounted, 1 storage box mounted)
  - Hydraulic track adjuster
  - Track guards
  - Greased and sealed track link
  - Hydraulic oil tank air breather filter
- **Safety**
  - Handrail and step
  - Safety glass
  - Hammer for emergency escape
  - Battery protector cover

**OPTIONAL EQUIPMENT**

- **DOOSAN HB Breaker**
  - HB series Breaker is designed for mainly focusing on breaking job. Doosan's focus is to optimize impact power, enhance durability, satisfy customer convenience and maintain easily in order to be faithful to the original function of hydraulic breaker.
  - *Housing / Top / Side type bracket are available*

<table>
<thead>
<tr>
<th>Model</th>
<th>Weight [kg]</th>
<th>Tool dia. [mm]</th>
<th>Oil Flow [l/min]</th>
<th>Operating Pressure [kg/cm²]</th>
<th>Frequency [rpm]</th>
</tr>
</thead>
<tbody>
<tr>
<td>HB20</td>
<td>1,860</td>
<td>135</td>
<td>130 - 150</td>
<td>160 - 200</td>
<td>400 - 800</td>
</tr>
</tbody>
</table>

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.
Doosan is

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

First in Korea, Doosan self-developed excavators in 1985 and continued building versatile construction machines including excavators, wheel loaders, articulated dump trucks to execute its human-oriented philosophy. Doosan became a global leader of heavy construction machine industry by achieving global sales line, producing line, and distribution line. Along with large production bases in Korea, China, USA, Czech, Brazil, Doosan has 1,400 dealer networks and Doosan is providing reliable products and trusted solutions for your stable business at no risk.