

CASE
CONSTRUCTION

CRAWLER EXCAVATOR
CX220C



Case – Integrated Solutions

EQUIPMENT | FINANCING | PARTS AND SERVICES

CRAWLER EXCAVATOR

CX220C

Case's intelligent excavator got even better.

The CX220C has a new 6-cylinder engine, which provides a gross power (SAE J1995) of 158 hp and a torque of 670 Nm. In addition to excellent response, this engine has a low rate of emissions, and meets the Tier 3 certification.

The CX220C also provides greater safety and keeps operator comfort with its new ROPS-certified cab. The innovative and cutting-edge technology embedded in the CX220C makes this crawler excavator a high productivity machine.

Because Case's promise is exactly that: to always be ahead in technology, productivity and low operating costs.

The CX220C brings with it the Case warranty, an established and recognized brand worldwide. The brand that always does more for its customers.





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The efficiency of the new engine.

High performance and a low level of emissions.

The new Case mechanical engine has 6 cylinders, 6.7 litres and reaches a gross power (SAE J1995) of 158 hp (118 kW) at 2,000 rpm, with a torque of 670 Nm at 1,200 rpm.

With direct injection, turbo compressor and intercooler, the new engine has a low rate of emissions, and meets the Tier 3 certification. In addition, an automatic idle selector returns the engine to the minimum rotation regime when all the controls are in the neutral position. This new larger displacement engine that operates at a low rotation regime provides low power consumption, longer life cycle and greater reliability.

Strength and stability to face any challenge.

Super-reinforced chassis for maximum results.

The CX220C was designed to ensure the highest performance in its activities. To do this, its centre of gravity is well positioned and the distribution of efforts on its frame is optimised.

To absorb the impact of the pistons when they reach the end of their stroke, and to prevent their spread through the rest of the frame, the cylinders have an automatic damping system.

All these features make the CX220C a machine with great dynamic stability and make it sufficiently safe for any type of work and terrain, which implies excellent lifting capacity.

The greater traction force of 210 kN, is utilized in its entirety due to good weight distribution in its frame, with no bumps or oscillations.

Double bushing bucket linkage: greater anti-wear protection.

The double bushing (2 bushings, one inside the other), of the arm and bucket, received additional protection anti-wear through the new external bushings made of wear-resistant steel, which increases the duration of the pins and bushings and reduces operating costs. When the radial surface of the inner bushing is worn, the new bushings can be replaced easily.

Strengths

- Low level of pollutants emissions
- Greater resistance to twisting and bending
- Great stability
- Excellent lifting capacity

Latest generation pumps: high operating capacity.

The two variable-flow hydraulic pumps installed in the CX220C and the new hydraulic lines ensure high performance in any type of activity. With capacity to pump a greater flow in a low engine rotation regime, they provide high operating performance and ensure simultaneous movements with speed and precision.

Power Boost with no time limit: unlimited efficiency.

For more severe applications, the CX220C offers the Power Boost function. In this condition, the hydraulic pressure increases from 34.3 MPa to 37.8 MPa, which, in turn, promotes increased digging force, also at 10%, which allows the operator better productivity with no time limit.

Hydrostatic transmission with automatic reduction.

The hydrostatic transmission has two axial pistons motors with two travel speeds that can be selected as needed:

- high speed for fast travel: 6 km/h;
- low speed with high traction force: 3.6 km/h.

On rough terrain with large slopes, travel speed is automatically reduced, which increases the traction force. The travel brakes have automatic application and release and act in accordance with the stopping and movement of the machine.



Strengths

- Simultaneous movements with speed and precision
- Power Boost with no time limit
- Hydrostatic transmission with automatic reduction
- Built-in technology

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Precise controls and smooth movements.

The CX220C electronic system is the ultimate in the management of the hydraulic functions. Sensors installed in the pilot lines send signals to the electronic control unit based on the movement of the joystick. These signals, along with the engine regime, adjust the requested hydraulic flow and ensure smooth and precise operations and great stability.

Work modes.

When you select the work mode according to the required need, the electronic control unit first adjusts the hydraulic system to perform the work in an easier and more productive manner.

S Mode (Standard): For normal work operations. Promotes lower consumption.

H Mode (Heavy): When you need maximum power. For heavy operations.

E Mode (Eco): For fuel economy.

Jackhammer Mode : For tools that require unidirectional flow (e.g. hydraulic hammer).

Pincers Mode : For tools that require bidirectional flows (e.g. claw or scissors).

In Jackhammer Mode and Pincers Mode, the operator can adjust the flow rate from 10 in 10 ℓ /min to adapt them to the parameters of the tools in use.



Optimised control of the penetration arm.

The CX220C is equipped with a regenerative system, which consists of the deviation of part of the oil coming out of the cylinder rod of the penetration arm back to the base of the cylinder. This entire system was designed to avoid cavitation in the arm cylinder, which is the emergence of a depression due to the rapid closing motion of the arm. Part of the oil that is not deviated to the cylinder returns to the reservoir.

Rotation reduction device: more savings, longer working life.

If the operator leaves the CX220C stopped with the engine running and keeps all the controls in neutral, the engine regime will reduce to the minimum rotation. This provides more fuel economy, noise and contamination reduction, and an increase in the working life.

Strengths

- Electronic system for control of hydraulic functions
- Precise controls and smooth movements
- Constant speed in simultaneous movements
- Operating modes for various applications
- Optimised control of the excavation arm
- Electronic control of the engine regime



More space for productivity.

A new cab that provides more comfort and operational ease. Long work days become comfortable and peaceful in the CX220C. Whether it's the safety of the cab with ROPS certification or the added comfort, everything is synonymous with efficiency and results.

Comfortable seat.

Anatomical, you can adjust the seat in all directions, along with or separately from the side consoles. You can raise or lower the armrests, integrated in the side consoles, which provide the best operator posture and greater productivity.

New control panel.

The new colour monitor has digital indicators for easy visibility. The screen was enlarged and the operator can clearly see on the monitor everything that is happening at the rear of the equipment via the optional rear camera. Maintenance information is clear and the self-diagnostic function anticipates fault warnings. Details of damage and faults that occur during work are recorded in it.

Easy-to-open front window.

A handle for easy operation with a new mechanism makes it simple and fast to open and close the front window.

Ergonomics: operational ease.

The controls are easy to operate and smoothly control all the movements of the machine. This allows extended working hours with greater willingness and less fatigue of the operator.

Strengths

- More spacious and comfortable cab
- Ergonomics to facilitate operations
- Colour monitor, maintenance and self-diagnostic warnings
- Greater safety



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A machine designed to reduce operating costs.

Simple and fast maintenance.

The CX220C was designed to allow simple and fast inspections and maintenance. The engine oil filter, the fuel filters and the water separator are well located and can be reached from ground level. Both the fuel filters and the oil separator, which eliminate contaminants and water, are vital to the proper operation and durability of the engine.

The cooling components (engine radiator, oil radiator and intercooler) are installed in parallel to provide greater system efficiency, and ease in inspection and maintenance.

Design that combines modernity and functionality.

The simplified layout of the components provides quick access to services.

Side doors (right and left) facilitate access, which results in time and cost savings. The new toolbox with lock optimises space and provides greater convenience.

Centralised lubrication.

Lubrication points, grouped and centralised, streamline maintenance procedures. Their positioning allows easy lubrication from ground level of all the points of the boom.

Optionally, the CX220C can come ready for a centralised automatic lubrication system, which applies the correct amount of grease to the wear points of the machine at the appropriate time. This system substantially reduces maintenance costs while increasing the reliability and durability of the machine.

Long-life hydraulic oil.

The long-life hydraulic oil used in the CX220C has excellent anti-emulsion characteristics as well as an optimised mixture of antioxidant and anti-wear additives that provide increased equipment life cycle and reduce operating costs.

Cab interior maintenance.

The floor covering is composed of two pieces of removable rubber to facilitate its removal. Below it, a drain to allow cleaning of the cab. The air conditioning filter, located behind the cab, can be disassembled without tools, from the panel on the side of the cab, which allows fast and efficient cleaning.

Strengths

- Simple and fast maintenance
- Functionality: easy access to components
- Centralised lubrication
- Essential components: ground-level maintenance
- Reduction of operating costs



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CASE CARE.

Case Care is a unique programme that encompasses several services, ranging from preventive and corrective maintenance of your machine to fleet management.

Offering the best machines and services in the construction sector is very important to Case, and being on the customer's side to ensure high-quality technical assistance, when needed, is a commitment.

CASE CARE HAS COMPLETE SOLUTIONS FOR YOUR WORK AND FOR YOUR PRODUCTIVITY AND SAFETY NEEDS.

Understanding the importance of a greater availability of your equipment, CASE offers SystemGard®, the fluid monitoring program for your equipment.

Case Care also offers free training for operators of the entire Case line, with practical and theoretical knowledge, including complete literature and a parts catalogue, to ensure the best results.

Access the portal www.casece.com.br and learn about the different types of services that Case Care offers to carefully care for your machine.

See your Case dealer. There you will find technical support and specialized guidance for the best results and profitability of your business.



CASE Customer Assistance
0800-727-2273

CASE CUSTOMER ASSISTANCE.

Case customers have a direct channel of communication with the brand. Case Customer Assistance is a different service program with the agility you need and the quality you deserve.

So, wherever you are, if you need Case, just connect. We are connected to you 24 hours a day, seven days a week. Case Customer Assistance. With you wherever you are.

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Gross power (SAE J1995)	158 hp (118 kW)
Operating weight	22.556 kg
Bucket capacity	0,4 m ³ a 1,7 m ³



CASE. FOR DOING MORE IN YOUR LIFE.

You can count on Case and its dealers for complete solutions in equipment, financing, parts and service, in the most diverse needs. Case has a full line of high-tech and robust construction machinery for your greater productivity. A century of efficiency and productivity in Brazil, which celebrates the tradition and leadership in the launch of new products. You can be proud of your Case machine with this history of passion and results. We are here to offer you the all our experience in the world of construction.



Case reserves the right to improve designs and change specifications at any time, without obligation to fit them on previously sold units. The specifications, descriptions, and illustrative materials contained here reflect correctly the data known up to the publication date, but may vary from region to region and are subject to change with no advance notice. The illustrations may include optional equipment and attachments and may not include all standard equipment.

CCE3-CX220C-IO1 - 12/2014 - Impresso no Brasil

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