C-SERIES HYDRAULIC EXCAVATORS
CX210C / CX220C

QUALITY
YOU CAN TRUST

www.casece.com
EXPERTS FOR THE REAL WORLD
SINCE 1842
MAIN REASONS TO CHOOSE THE C-SERIES

HIGH EFFICIENCY
Up to 8% more fuel efficiency.
Constant consumption monitoring.
With the 5 Energy Saving Controls, Isuzu engine and the new ECO gauge function.

HIGH PRECISION AND CONTROLLABILITY
High performance.
Smooth control.
Improved fuel efficiency.
With CASE Intelligent Hydraulic System.

HIGH RELIABILITY
Robust design.
Increased durability.
Lower cost of ownership.
With the CASE top manufacturing quality.

COMFORT AND SAFETY
Spacious and safe cab.
Low noise and vibrations.
Ergonomic workstation.
Real time parameters monitoring.
With the newly designed cab, fully adjustable seat/joysticks and brand new LCD cluster.
OUTSTANDING VISIBILITY
Safe and fast operations.
More comfort.
With wider glazed area.

FAST CYCLES
Higher breakout force.
Continuous operations.
Up to 10% higher digging capability.
With H/SP modes and
Auto Power boost.

LOW TOTAL COST OF OWNERSHIP
Longer service intervals.
Reduced downtimes.
Fast, easy and safe maintenance operations.
With the EMS bushings, high quality components
and service points accessible from the ground.

HIGH VERSATILITY
The perfect machine for every application.
With 3 available power modes and 10 auxiliary hydraulic settings.
C-SERIES
CRAWLER EXCAVATORS

HIGH PRECISION AND CONTROLLABILITY

The proven CASE Intelligent Hydraulic System (CIHS) delivers impressive machine control with unrivalled energy and fuel savings in all cycle time phases.

HIGH EFFICIENCY

CASE advanced energy management consists of 5 Energy Saving Controls:

• Torque Control: electronic control of the hydraulic output to prevent engine overloads.
• Boom Economy Control (BEC): increased fuel efficiency in boom lowering/swinging operations.
• Swing Relief Control (SWC): optimized hydraulic power distribution in slewing operations to deliver the most efficient flow and pressure.
• Spool Stroke Control (SSC): pressure and flow during digging and leveling operations
• Idle functions
  • Auto Idle: lowers engine rpm after 5 seconds of lever inactivity;
  • Idle Shutdown: shuts the engine down after a pre-set time.

The C series models are powered by Isuzu engines, designed to boost machine performances and optimize fuel economy.

Fuel consumption can be constantly monitored by the operator throughout the new ECO gauge function, that displays in real time the energy saving level utilized.
HIGH RELIABILITY

Boom and arm structure has been designed to reinforce the thickness rate of the most stressed areas, to increase productivity, the cycle times and durability of components.

- New high strength casting parts joined with thicker hinge flanges reduce stress on components.
- Longer greasing intervals to reduce downtime (1,000 hrs).
- The ‘sloped’ lower frame design reduces the time needed to clean the undercarriage.

Accurate, simple and robust design for high durability.

- The C-Series delivers leading design solutions and manufacturing quality.
- Boom and arm feature forged brackets and reduced tolerances for increased component life minimizing downtime.
- The anti-friction resin shims in the boom foot and head reduce noise and free play, increasing durability and reliability for the customer.
- New synthetic hydraulic filter reduces system contamination, cutting service costs and boosting machine longevity.
C-SERIES
CRAWLER EXCAVATORS

COMFORT AND SAFETY
• Superior wide and roomy cab with ample legroom.
• New cushioning system to lower noise and vibration levels for the operator’s ultimate comfort.
• Totally adjustable workstation with fully reclinable air-suspensioned seat.
• Air conditioning system with 25% more airflow and 6% better performances compared to B-Series.

OUTSTANDING VISIBILITY
• Wider glazed surface with single piece side window.
• New 7” LCD cluster for a more secure and safe working environment and to constant monitor the main machine parameters.
C-SERIES
CRAWLER EXCAVATORS

FAST CYCLES
The advanced hydraulic system offers higher breakout forces, improved swing speeds and greater swing torque, resulting in faster cycle times and 5% increase in productivity. Power boost function is automatically engaged. The electronic management of speed and power lowers fuel consumption and offers considerable productivity benefits in terms of outputs.

HIGH VERSATILITY
3 power modes to match any customer need:

- **AUTO**: for normal digging, grading, lifting and precision work.
- **HEAVY**: for heavy operations always granting the best balance between productivity and fuel economy.
- **SUPER POWER**: extra speed and power for the most demanding jobs that require maximum productivity.

Operators can store up to 10 auxiliary hydraulic flow and pressure settings to easily switch among different attachments with no need of any mechanical adjustment.

LOW TOTAL COST OF OWNERSHIP
- The Extended Maintenance Bushings (EMS) provide longer greasing intervals, reducing daily and weekly maintenance for the operator.
- All filters and regular check points are grouped and easily accessible from the ground.
- Radiator and cooler are mounted side by side for more efficient cooling and easy access for cleaning.
- Optional refueling pump with auto cut off reduces downtime for regular fills.
## ENGINE

<table>
<thead>
<tr>
<th>Model</th>
<th>GF-4HK1X</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Water-cooled, 4-cycle diesel, 4-cylinder in line, electronically controlled, high pressure common rail system, variable geometry turbocharger, air cooled intercooler.</td>
</tr>
<tr>
<td>Number of cylinders/displacement</td>
<td>5.19 l</td>
</tr>
<tr>
<td>Bore/Stroke</td>
<td>115 x 125 mm</td>
</tr>
<tr>
<td>Rated flywheel horse power</td>
<td>117.3 kW at 1800 min⁻¹</td>
</tr>
<tr>
<td>Horsepower ISO 9249 (Net)</td>
<td>122 kW at 1800 min⁻¹</td>
</tr>
<tr>
<td>Maximum torque ISO 9249 (Net)</td>
<td>608 Nm at 1600 min⁻¹</td>
</tr>
<tr>
<td>Maximum torque ISO 14396 (Gross)</td>
<td>624 Nm at 1600 min⁻¹</td>
</tr>
</tbody>
</table>

## HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Main pumps</th>
<th>2 variable displacement axial piston pumps with regulating system</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max oil flow</td>
<td>2 x 211 l/min at 1800 min⁻¹</td>
</tr>
</tbody>
</table>

### FILTERS

<table>
<thead>
<tr>
<th>Suction filter</th>
<th>105 μm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Return filter</td>
<td>6 μm</td>
</tr>
<tr>
<td>Pilot line filter</td>
<td>8 μm</td>
</tr>
</tbody>
</table>

## PERFORMANCE DATA

<table>
<thead>
<tr>
<th>CX210C</th>
<th>CX220C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm</td>
<td>Arm</td>
</tr>
<tr>
<td>2.40 m</td>
<td>2.94 m</td>
</tr>
<tr>
<td>Boom length</td>
<td>5700</td>
</tr>
<tr>
<td>Bucket radius</td>
<td>1450</td>
</tr>
<tr>
<td>Bucket wrist action</td>
<td>177</td>
</tr>
<tr>
<td>A Maximum reach at GRP</td>
<td>9240</td>
</tr>
<tr>
<td>B Maximum reach</td>
<td>9420</td>
</tr>
<tr>
<td>C Max. digging depth</td>
<td>6110</td>
</tr>
<tr>
<td>D Max. digging height</td>
<td>9410</td>
</tr>
<tr>
<td>E Max. dumping height</td>
<td>6590</td>
</tr>
<tr>
<td>Arm digging force with auto power up</td>
<td>132 kN</td>
</tr>
<tr>
<td>Bucket digging force with auto power up</td>
<td>152 kN</td>
</tr>
</tbody>
</table>

## TRAVEL

- **Travel motor**: Variable displacement axial piston motor (Automatic travel speed shifting)
- **Max travel speed**: 5.6 km/h
- **Low travel speed**: 3.4 km/h
- **Gradeability**: 70% (35°)
- **Drawbar pull**: 188 kN

## ELECTRICAL SYSTEM

- **Circuit**: 24V
- **Alternator**: 50 Amp
- **Starter motor**: 5.0 kW
- **Batteries**: Indonesia, Malaysia, Philippines 2x12V 88 Ah/5HR
- **Indonesia, Malaysia, Philippines**: 2x12V 92 Ah/5HR

## UNDERCARRIAGE

- **Number of carriers rollers (each side)**: 2
- **Number of track rollers (each side)**: 7
- **Number of shoes (each side)**: 46
- **Type of shoe**: Triple grouser shoe

## CAPACITIES

- **Fuel tank**: 410 lt
- **Hydraulic system**: 240 l
- **Cooling system**: 29.8 l
- **Engine Crank Case**: 23.1 l

## WEIGHT AND GROUND PRESSURE

- **2.94 m arm, 0.9 m³ bucket, 800mm grouser shoe, operator, lubricant, coolant and full fuel tank.**

<table>
<thead>
<tr>
<th>CX210C</th>
<th>CX220C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating mass</td>
<td>Cambodia, Laos, Indonesia, Philippines, Malaysia* 21,500 Kg</td>
</tr>
<tr>
<td>Myanmar, Thailand</td>
<td>21,200 Kg</td>
</tr>
<tr>
<td>Malaysia</td>
<td>21,400 Kg</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>0.036 MPa</td>
</tr>
</tbody>
</table>

* CX220C only
# GENERAL DIMENSIONS AND LIFTING CAPACITY

## GENERAL DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>CX210C</th>
<th>Arm 2.40 m</th>
<th>Arm 2.94 m</th>
<th>Arm 2.40 m</th>
<th>Arm 2.94 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall length (without attachment)</td>
<td>mm</td>
<td>4810</td>
<td>4810</td>
<td>4950</td>
<td>4950</td>
</tr>
<tr>
<td>Overall length (with attachment)</td>
<td>mm</td>
<td>9480</td>
<td>9400</td>
<td>9480</td>
<td>9400</td>
</tr>
<tr>
<td>Overall height (without attachment)</td>
<td>mm</td>
<td>4810</td>
<td>4810</td>
<td>4950</td>
<td>4950</td>
</tr>
<tr>
<td>Overall height (with attachment)</td>
<td>mm</td>
<td>9480</td>
<td>9400</td>
<td>9480</td>
<td>9400</td>
</tr>
<tr>
<td>Cab height</td>
<td>mm</td>
<td>2950</td>
<td>2950</td>
<td>2950</td>
<td>2950</td>
</tr>
<tr>
<td>Upper structure overall width</td>
<td>mm</td>
<td>2770</td>
<td>2770</td>
<td>2770</td>
<td>2770</td>
</tr>
<tr>
<td>Swing (rear end radius)</td>
<td>mm</td>
<td>2750</td>
<td>2750</td>
<td>2750</td>
<td>2750</td>
</tr>
<tr>
<td>Clearance height under upper structure</td>
<td>mm</td>
<td>1040</td>
<td>1040</td>
<td>1040</td>
<td>1040</td>
</tr>
<tr>
<td>Minimum ground clearance</td>
<td>mm</td>
<td>440</td>
<td>440</td>
<td>440</td>
<td>440</td>
</tr>
<tr>
<td>Wheel base (Center to center of wheels)</td>
<td>mm</td>
<td>3370</td>
<td>3370</td>
<td>3660</td>
<td>3660</td>
</tr>
<tr>
<td>Crawler overall length</td>
<td>mm</td>
<td>4180</td>
<td>4180</td>
<td>4470</td>
<td>4470</td>
</tr>
<tr>
<td>Crawler tracks height</td>
<td>mm</td>
<td>920</td>
<td>920</td>
<td>920</td>
<td>920</td>
</tr>
<tr>
<td>Track gauge</td>
<td>mm</td>
<td>2200</td>
<td>2200</td>
<td>2390</td>
<td>2390</td>
</tr>
<tr>
<td>Undercarriage overall width (with 800 mm shoes)</td>
<td>mm</td>
<td>3000</td>
<td>3000</td>
<td>3190</td>
<td>3190</td>
</tr>
</tbody>
</table>

### Front Reach

<table>
<thead>
<tr>
<th>Reach</th>
<th>4.5 m</th>
<th>6.0 m</th>
<th>7.5 m</th>
<th>At max reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>CX210C - Standard arm 2.40 m, 800 mm shoes, 0.80 BUCKET (650 kg)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 m</td>
<td>4310*</td>
<td>4310*</td>
<td>3860*</td>
<td>3860</td>
</tr>
<tr>
<td>6.0 m</td>
<td>4570*</td>
<td>4500*</td>
<td>3600*</td>
<td>3560*</td>
</tr>
<tr>
<td>4.5 m</td>
<td>5390*</td>
<td>4340</td>
<td>4490</td>
<td>3030</td>
</tr>
<tr>
<td>3.0 m</td>
<td>6220*</td>
<td>4030</td>
<td>4500</td>
<td>2610</td>
</tr>
<tr>
<td>1.5 m</td>
<td>5950</td>
<td>3770</td>
<td>4340</td>
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<tr>
<td>0.0 m</td>
<td>5790</td>
<td>3630</td>
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<td>2810</td>
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<tr>
<td>-1.5 m</td>
<td>5580*</td>
<td>5580*</td>
<td>5760</td>
<td>3600</td>
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<tr>
<td>-3.0 m</td>
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<td>3680</td>
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</table>
STANDARD EQUIPMENT

ENGINE
Std configuration for temperatures -25° +50° c
Turbocharger with air cooled intercooler
Double element air cleaner
Pre fuel filter
Fuel filter w/ water separator
Automatic/manual engine return to idle
Neutral safety start
Emergency stop
Warm up mode
Dial type throttle control
Glow-plug pre-heat
Tropical package

HYDRAULIC SYSTEM
2 variable flow piston pumps
Auto/heavy/super power working modes
Auto power boost
Swing priority (swing+arm)
Travel speed change
Selectable working modes
Pre-set auxiliary pump settings

CAB AND OPERATOR COMPARTMENT
Iso pattern controls
Arm and boom regeneration
Straight travel valve
100% return oil filtration

CAB AND OPERATOR COMPARTMENT
Pre-disposal for the optional cab protection
Pressurized cab ac/heat/defrost w/ auto climate control
Tilting consoles - 4-position
Low-effort controls (short) length to be removed
Sliding front window - storable

EQUIPMENT AND UNDERCARRIAGE
5,70 meter  boom
Boom mounted work light (70 watt)
Arm 1.90m
Arm 2.40m
Arm 2.94m
Hd bucket linkage w hook
Arm and boom hose burst check valves
600mm triple grousers steel shoes
700mm triple grousers steel shoes
800mm triple grousers steel shoes

OPTIONAL EQUIPMENT

CAB AND OPERATOR COMPARTMENT
Rops/fops protection
Iron roof window
Sun visor & rain deflector
Sun shade
Case telematics

EQUIPMENT AND UNDERCARRIAGE
Arm 1.90m
Arm 2.40m
Arm 2.94m
Hose burst control valve on boom & arm cylinder with
over load warning device

STANDARD AND OPTIONAL
PARTS AND SERVICE

Wide network of customer support across the world.
No matter where you work, we’re here to support and protect your investment and exceed your expectations. You can count on Case and your Case dealer for full-service solutions-productive equipment, expert advice, flexible financing, genuine Case parts and fast service. We’re here to provide you with the ultimate ownership experience. To locate a Case dealer or learn more about Case equipment or customer service, go to www.casece.com

NOTE: “CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.”