# C-SERIES HYDRAULIC EXCAVATORS CX210C / CX220C





# QUALITY YOU CAN TRUST

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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.





# 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.



### **FAST CYCLES**

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



### **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 fore more efficient cooling and easy access for cleaning.
- Optional refueling pump with auto cut off reduces downtime for regular fills.



# **C- SERIES HYDRAULIC EXCAVATORS**

# **CX210C/CX220C**

## **ENGINE**

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

# **HYDRAULIC SYSTEM**

Main pumps	_2 variable displacement axial piston pumps with
	regulating system
Max oil flow	2 x 211 l/min at 1800 min <sup>-1</sup>
Working circuit pressure	
Boom/Arm/Bucket circuit _	34.3 MPa
Boom/Arm/Bucket circuit (v	vith auto power up) 36.8 MPa
Swing circuit	29.4 MPa
Traval circuit	34.3 Mpa

## **SWING**

Maximum swing speed	11.5 min <sup>-1</sup>
Swing torque	64,000 N-m

# **FILTERS**

Suction filter	105 μm
Return filter	
Pilot line filter	8 um

# **PERFORMANCE DATA**

			CX210C		CX2	20C
			Arm 2.40 m	Arm 2.94 m	Arm 2.40 m	Arm 2.94 m
	Boom length	mm	5700	5700	5700	5700
	Bucket radius	mm	1450	1450	1450	1450
	Bucket wrist action	۰	177	177	177	177
A	Maximum reach at GRP	mm	9240	9730	9240	9730
В	Maximum reach	mm	9420	9900	9420	9900
C	Max. digging depth	mm	6110	6650	6110	6650
D	Max. digging height	mm	9410	9610	9410	9610
Ε	Max. dumping height	mm	6590	6810	6590	6810
	Arm digging force with auto power up		132 kN	110 kN	132 kN	110 kN
	Bucket digging force with auto power up		152 kN	152 kN	152 kN	152 kN

# **WEIGHT AND GROUND PRESSURE** 2.94 m arm, 0.9 m³ bucket, 800mm grouser shoe,

operator, lubricant, coolant and full fuel tank.

, ,	CX210C	CX220C
OPERATING MASS		
Cambodia, Laos, Indonesia, Philippines, Malaysia*	21,500 Kg	21,900 Kg
Myanmar, Thailand	21,200 Kg	21,700 Kg
Malaysia	21,400 Kg	-
GROUND PRESSURE	0.036 MPa	0.047 MPa

# **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 kŃ

## **ELECTRICAL SYSTEM**

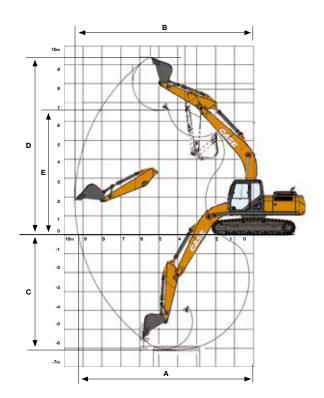
Circuit	24V
Alternator	50 Amp
Starter motor	5.0 kW
Batteries	
Indonesia, Malaysia, Philippines	2x12V 88 Ah/5HR
Indonesia, Malaysia, Philippines	2x12V 92 Ah/5HR

# **UNDERCARRIAGE**

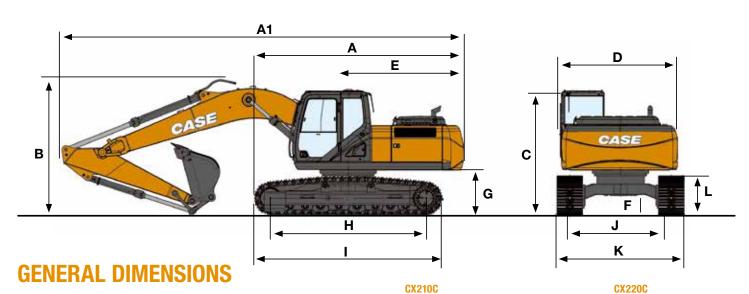
Number of carriers rollers (each side)	2
Number of track rollers (each side)	7
Number of shoes (each side)	46
Type of shoe	Triple grouser shoe

# **CAPACITIES**

Fuel tank	410 lt
Hydraulic system	240 I
Cooling system	29,8 I
Engine Crank Case	23.1 l



# GENERAL DIMENSIONS AND LIFTING CAPACITY



			UNZIUU		UNZZUU	
			Arm 2.40 m	Arm 2.94 m	Arm 2.40 m	Arm 2.94 m
Α	Overall length (without attachment)	mm	4810	4810	4950	4950
<b>A</b> 1	Overall length (with attachment)	mm	9480	9400	9480	9400
В	Overall height (with attachment)	mm	3190	2970	3190	2970
C	Cab height	mm	2950	2950	2950	2950
D	Upper structure overall width	mm	2770	2770	2770	2770
E	Swing (rear end radius)	mm	2750	2750	2750	2750
G	Clearance height under upper structure	mm	1040	1040	1040	1040
F	Minimum ground clearance	mm	440	440	440	440
Н	Wheel base (Center to center of wheels)	mm	3370	3370	3660	3660
I	Crawler overall length	mm	4180	4180	4470	4470
L	Crawler tracks height	mm	920	920	920	920
J	Track gauge	mm	2200	2200	2390	2390
K	Undercarriage overall width (with 800 mm shoes)	mm	3190	3190	3190	3190

4.5 m		6.0	m						
l L				7.8	7.5 m		At max reach		
<u> </u>	<b>₽</b> ∱-¬	1	-	ļΝ	-	ļ	<b>#</b> †-•	m	
CX210C - Standard arm 2.40 m, 800 mm shoes, 0.80 BUCKET (650 kg)									
		4310*	4310*			3860*	3660	6,72	
		4570*	4500*	4490	3030	3560*	2790	7,75	
6890*	6720*	5390*	4340	4500	2950	3480*	2360	8,4	
		6220*	4030	4340	2810	3340	2120	8,73	
		5950	3770	4190	2670	3250	2040	8,77	
		5790	3630	4090	2580	3360	2110	8,52	
5580*	5580*	5760	3600	4080	2570	3750	2360	7,94	
8390*	5750*	5840	3680			4680	2970	6,95	
	6890* 5580*	6890* 6720* 5580* 5580*	4310* 4570* 6890* 6720* 5390* 6220* 5950 5790 5580* 5580* 5760	4310*     4310*       4570*     4500*       6890*     6720*     5390*     4340       6220*     4030       5950     3770       5790     3630       5580*     5760     3600	4310*     4310*       4570*     4500*     4490       6890*     6720*     5390*     4340     4500       6220*     4030     4340       5950     3770     4190       5790     3630     4090       5580*     5760     3600     4080	4310*     4310*       4570*     4500*     4490     3030       6890*     6720*     5390*     4340     4500     2950       6220*     4030     4340     2810       5950     3770     4190     2670       5790     3630     4090     2580       5580*     5760     3600     4080     2570	4310*     4310*     3860*       4570*     4500*     4490     3030     3560*       6890*     6720*     5390*     4340     4500     2950     3480*       6220*     4030     4340     2810     3340       5950     3770     4190     2670     3250       5790     3630     4090     2580     3360       5580*     5760     3600     4080     2570     3750	4310*     4310*     3860*     3660       4570*     4500*     4490     3030     3560*     2790       6890*     6720*     5390*     4340     4500     2950     3480*     2360       6220*     4030     4340     2810     3340     2120       5950     3770     4190     2670     3250     2040       5790     3630     4090     2580     3360     2110       5580*     5760     3600     4080     2570     3750     2360	

	REAUTI												
Front	4.5 m		6.0 m		7.5 m		9.0 m		At max reach				
360°		<b>#</b> i	Į.			<del>-</del>	ļ.	<del>-</del>	ŀ	<del>-</del> 1	m		
CX210C - Standard arm 2.94 m, 800 mm shoes, 0.80 BUCKET (650 kg)													
7.5 m									2500*	2500*	7,34		
6.0 m					4000*	3080			2340*	2340*	8,3		
4.5 m	5970*	5970*	4870*	4410	4360*	2970			2300*	2100	8,9		
3.0 m	8300*	6310	5940*	4080	4350	2810	3160	1990	2360*	1890	9,22		
1,5 m	7180*	5730	5960	3780	4180	2650	3080	1920	2520*	1820	9,25		
0 m	5850*	5530	5750	3590	4050	2540	2900*	1870	2800*	1860	9,01		
-1,5 m	6690*	5510	5680	3520	4000	2490			3270*	2060	8,48		
-3.0 m	8410*	5600	5720	3560	4060	2550			4010	2510	7,57		



					REACH				
Front	ont 4.5 m		6	.0 m		7.5 m	At m		
360°	<b>,</b> .		Į.	<b>#</b>	Į.	<del>•</del>	l <sub>l</sub> l		m
X220C	- Standard a	arm 2.40 m, 8	800 mm shoes	s, 0.80 BUCKE	T (650 kg)				
7.5 m			4250*	4250*			3840*	3840*	6,72
6.0 m			4510*	4510*	4430*	3340	3540*	3090	7,75
4.5 m	6810*	6810*	5310*	4790	4680*	3260	3460*	2620	8,4
3.0 m			6310*	4460	4920	3110	3540*	2360	8,73
1,5 m			6790	4190	4760	2970	3690	2280	8,77
0 m			6620	4040	4660	2870	3820	2350	8,52
-1,5 m	5580*	5580*	6590	4010	4640	2860	4270	2630	7,94
-3.0 m	8390*	6450	6510*	4100			5220*	3310	6,95
		1	•	•				'	
u l					REACH				
Front	4.5 m		6.0 m		7.5 m 9.0 m		At max reach		
A CONTRACTOR OF THE PARTY OF TH									

Front	4.5 m		6.0 m		7.5 m		9.0 m		At max reach		
360°		<b>≑</b> i-	ļ		Ţ	<del>=</del> i	ļ.	<del>†i</del>	Į.	<del>   </del>	m
OVER Chardened over 2.04 m. 200 mm shoot 0.00 PHOVET (CEO.Lm)											

### CX220C - Standard arm 2.94 m. 800 mm shoes, 0.80 BUCKET (650 kg)

UNLLUG	o otandara arm 2:04 m, 000 mm onoos, 0:00 booker (000 kg)										
7.5 m									2500*	2500*	7,34
6.0 m							4000*	3450	2340*	2340*	8,3
4.5 m	5970*	5970*	4870*	4810*			4360*	3340	2300*	2300*	8,9
3.0 m	8300*	7120	5940*	4580	3420*	2270	4890*	3180	2360*	2170	9,22
1,5 m	7180*	6520	6820*	4270	3560	2200	4810	3010	2520*	2090	9,25
0 m	5850*	5850*	6670	4080	2900*	2150	4680	2890	2800*	2140	9,01
-1,5 m	6690*	6290	6590	4010			4630	2850	3270*	2360	8,48
-3.0 m	8410*	6380	6640	4050			4690	2910	4130*	2870	7,57
-4.5 m	7150*	6620	5080*	4260					4920*	4160	6,1

# **STANDARD** AND OPTIONAL

### STANDARD EQUIPMENT

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

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

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) lenght to be removed

Sliding cockpit

Mechanical suspended seat

Arm rest

Color lcd monitor display Auxiliary select system

Aux-in port for personal electronics (12v)

Arm and boom hose burst check valves

Auxiliary single or double acting circuit

600mm triple grouser steel shoes

700mm triple grouser steel shoes

800mm triple grouser steel shoes

Auxiliary single acting circuit

Auxiliary double acting circuit

Rubber floormat

One-piece right hand window Windshield wiper / washer

Storage compartments

Hd bucket linkage w hook

On-board diagnostic system

Standard handrails

Single track guide

Triple track guide

Sliding front window - storable

Anti-theft device Cool box

Cab top lights

High band am/fm radio

Rh front console w/ clock and cell phone holder

Rear mirror (mounted on cab) Rear mirror (mounted on tool box)

**EQUIPMENT AND UNDERCARRIAGE** 

5,70 meter boom

Boom mounted work light (70 watt)

Bucket linkage

Centralized lube bank Attachment cushion valve

Tool box

Ems (extended maintenance system) pins and bushings

as standard

Sealed and lubricated tracks

Lower under cover

Hose burst control valve on boom & arm cylinder with over load warning device

Refuel pump

Upper front screen (mesh type)

Front grill (bar, opg1)

Front grill (bar, opg2)

Air-pre cleaner - cup type

Air-pre cleaner - cyclone type

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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

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