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:

- A **AUTO:** for normal digging, grading, lifting and precision work.
- **IB** HEAVY: for heavy operations always granting the best balance between productivity and fuel economy.
- 3 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
Туре	Water-cooled, 4-cycle
diesel, 4-cylinder in line, electronically controlle	d, high pressure common rail
system, variable geometry turbocharger, air coc	oled intercooler.
Number of cylinders/displacement	5.19 I
Bore/Stroke	115 x 125 mm
Rated flywheel horse power	
Horsepower ISO 9249 (Net)	117.3 kW at 1800 min ⁻¹
Horsepower ISO 14396 (Gross)	122 kW at 1800 min ⁻¹
Maximum torque ISO 9249 (Net)	608 Nm at 1600 min ⁻¹
Maximum torque ISO 14396 (Gross)	624 Nm at 1600 min ⁻¹

HYDRAULIC SYSTEM

Main pumps				
	regulating syste	m		
Max oil flow	2 x 211 l/min at 1800 mir	n-1		
Working circuit pressure				
Boom/Arm/Bucket circuit	34.3 MI	Pa		
Boom/Arm/Bucket circuit (with auto power up) 36.8 MI	Pa		
Swing circuit	29.4 MI	Pa		
Travel circuit	34.3 M	ра		
	-			

SWING

Maximum swing speed	11.5 min ^{_1}
Swing torque	 64,000 N-m

FILTERS

Suction filter	105 μm
Return filter	6 μm
Pilot line filter	8 μm

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	•	177	177	177	177	
Maximum reach at GRP	mm	9240	9730	9240	9730	
Maximum reach	mm	9420	9900	9420	9900	
Max. digging depth	mm	6110	6650	6110	6650	
Max. digging height	mm	9410	9610	9410	9610	
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	
	Bucket radius Bucket wrist action Maximum reach at GRP Maximum reach Max. digging depth Max. digging height Max. dumping height Arm digging force with auto power up Bucket digging force with auto	Bucket radiusmmBucket wrist action°Maximum reach at GRPmmMaximum reach at GRPmmMax. digging depthmmMax. digging heightmmMax. dumping heightmmArm digging force with auto power upEucket digging force with auto	Arm 2.40 mBoom lengthmm5700Bucket radiusmm1450Bucket wrist action°177Maximum reach at GRPmm9240Maximum reachmm9420Max. digging depthmm6110Max. digging heightmm6590Arm digging force with auto power up132 kNBucket digging force with auto152 kN	Arm 2.40 mArm 2.94 mBoom lengthmm5700Bucket radiusmm1450Bucket radiusmm1450Bucket wrist action°177Maximum reach at GRPmm9240Maximum reach at GRPmm9420Maximum reachmm9410Max. digging depthmm6510Max. digging heightmm6590Max. dumping heightmm6590Arm digging force with auto power up132 kN110 kNBucket digging force with auto152 kN152 kN	Arm 2.40 m Arm 2.94 m Arm 2.40 m Boom length mm 5700 5700 Bucket radius mm 1450 1450 Bucket radius mm 1450 1450 Bucket radius mm 1450 1450 Bucket wrist action ° 177 177 Maximum reach at GRP mm 9240 9730 9240 Maximum reach mm 9420 9900 9420 Max. digging depth mm 6110 6650 6110 Max. digging height mm 9410 9610 9410 Max. dumping height mm 6590 6810 6590 Arm digging force with auto power up 132 kN 110 kN 132 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
21,500 Kg	21,900 Kg
21,200 Kg	21,700 Kg
21,400 Kg	-
0.036 MPa	0.047 MPa
	21,500 Kg 21,200 Kg 21,400 Kg

* CX220C only

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 arouser shoe

CAPACITIES

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



GENERAL DIMENSIONS AND LIFTING CAPACITY



GENERAL DIMENSIONS

CX210C

CX220C

			Arm 2.40 m	Arm 2.94 m	Arm 2.40 m	Arm 2.94 m
A	Overall length (without attachment)	mm	4810	4810	4950	4950
A1	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
H	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

ų,		REACH								
1	Front	4.	4.5 m 6.0 m		7.5 m		At max reach			
ŧ			•							m

CX210C - Standard arm 2.40 m, 800 mm shoes, 0.80 BUCKET (650 kg)									
7.5 m 4310* 4310* 3860* 3660									6,72
6.0 m			4570*	4500*	4490	3030	3560*	2790	7,75
4.5 m	6890*	6720*	5390*	4340	4500	2950	3480*	2360	8,4
3.0 m			6220*	4030	4340	2810	3340	2120	8,73
1,5 m			5950	3770	4190	2670	3250	2040	8,77
0 m			5790	3630	4090	2580	3360	2110	8,52
-1,5 m	5580*	5580*	5760	3600	4080	2570	3750	2360	7,94
-3.0 m	8390*	5750*	5840	3680			4680	2970	6,95

					REACH						
Front	4.	4.5 m		6.0 m		7.5 m		9.0 m		At max reach	
₩ 360°			L L	╺				₩ 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

LIFTING CAPACITY

U.]	REACH												
Front	4.5 m		6.0) m	7.	5 m	At max						
360°				₽ ₽					m				
CX220C - Standard arm 2.40 m, 800 mm shoes, 0.80 BUCKET (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	1		REACH											
	Front	4	.5 m	6.	0 m	7.9	5 m	9.	0 m	At ma	x reach			
	₩ 360°	l I	ġ.									m		

CX220C - Standard arm 2.94 m, 800 mm shoes, 0.80 BUCKET (650 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 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

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 Icd monitor display

Auxiliary select system Aux-in port for personal electronics (12v) Rubber floormat One-piece right hand window Windshield wiper / washer Storage compartments On-board diagnostic system Standard handrails

Hd bucket linkage w hook Arm and boom hose burst check valves 600mm triple grouser steel shoes 700mm triple grouser steel shoes 800mm triple grouser steel shoes Single track guide Triple track guide Auxiliary single acting circuit Auxiliary single or double acting circuit Auxiliary double acting circuit

STANDARD AND OPTIONAL

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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