

C-SERIES HYDRAULIC EXCAVATORS
CX220C

CASE
CONSTRUCTION



**QUALITY
YOU CAN TRUST**

www.casece.com

**EXPERTS FOR THE REAL WORLD
SINCE 1842**

MAIN REASONS TO CHOOSE THE C-SERIES



HIGH PRECISION AND CONTROLLABILITY

High performance.
Smooth control.
Improved fuel efficiency.
With CASE Intelligent Hydraulic System.



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 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.



HIGH VERSATILITY

The perfect machine

for every application.

With 3 available power

modes and 10 auxiliary

hydraulic settings.



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.

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



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" LED cluster for a more secure and safe working environment and to constant monitor the main machine parameters.

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.
- H** HEAVY: for heavy operations always granting the best balance between productivity and fuel economy.
- SP** SUPER POWER: extra speed and power for the most demanding jobs that require maximum productivity.



Operators can store up to **10 auxiliary hydraulic flow settings** (and pressures as optional) 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.





C- SERIES

HYDRAULIC EXCAVATORS

CX220C

ENGINE

Model	ISUZU GI-4HK1X
Type	Water-cooled, 4-cycle diesel, 4-cylinder in line, electronically controlled, high pressure common rail system, turbocharger with air cooled intercooler
Emission certified	Tier 3
Displacement	5.19 l
Bore/Stroke	115 x 125 mm
Horsepower ISO 14396 GROSS	122 kW (164 hp) at 1800 min ⁻¹
Horsepower SAE J1349 NET	117.3 kW (157 hp) at 1800 min ⁻¹
Maximum torque SAE J14396 GROSS	624 Nm at 1600 min ⁻¹
Maximum torque SAE J1349 NET	608 Nm at 1600 min ⁻¹

HYDRAULIC SYSTEM

Type	2 variable displacement axial piston pumps with regulating system
Max oil flow	2 x 211 l/min at 1800 min ⁻¹
Working circuit pressure	
Boom/Arm/Bucket circuit	34.3 MPa
Boom/Arm/Bucket circuit (with auto power up)	36.8 MPa
Swing circuit	29.4 MPa
Travel circuit	34.3 MPa

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

	Arm 2.40 m	CX220C Arm 2.94 m	Arm 1.90 m
Boom length	mm 5700	5700	5700
Bucket radius	mm 1450	1450	1450
Bucket wrist action	° 177	177	177
A Maximum reach at GRP	mm 9240	9730	8770
B Maximum reach	mm 9420	9900	8960
C Max. digging depth	mm 6110	6650	5610
D Max. digging height	mm 9410	9610	9160
E Max. dumping height	mm 6590	6810	6330
Arm digging force with auto power up	132 kN	110 kN	152 kN
Bucket digging force with auto power up	152 kN	152 kN	152 kN

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

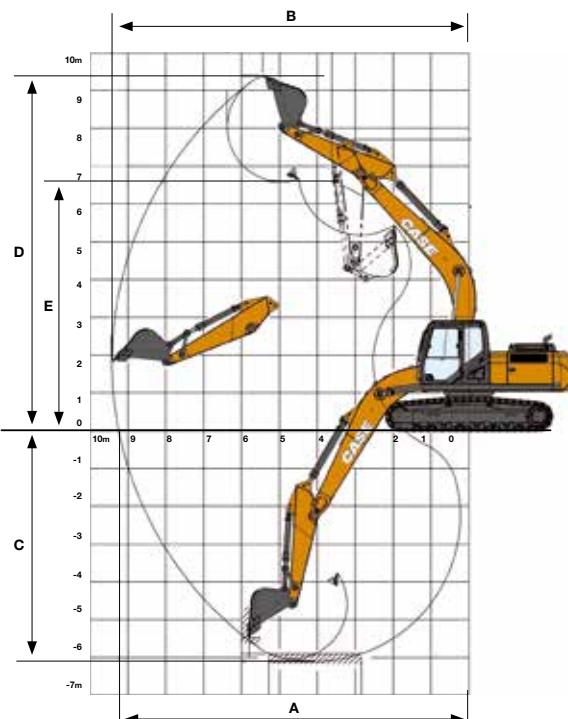
Circuit	24V
Alternator	50 Amp
Starter motor	5.0 kW
Battery	2x12 V 92 Ah/5HR

UNDERCARRIAGE

Number of carriers rollers (each side)	2
Number of track rollers (each side)	8
Number of shoes (each side)	49
Type of shoe	Triple grouser shoe

CAPACITIES

Fuel tank	410 lt
Hydraulic system	240 l
Cooling system	30,6 l
Engine Crank Case	23,1 l



WEIGHT AND GROUND PRESSURE

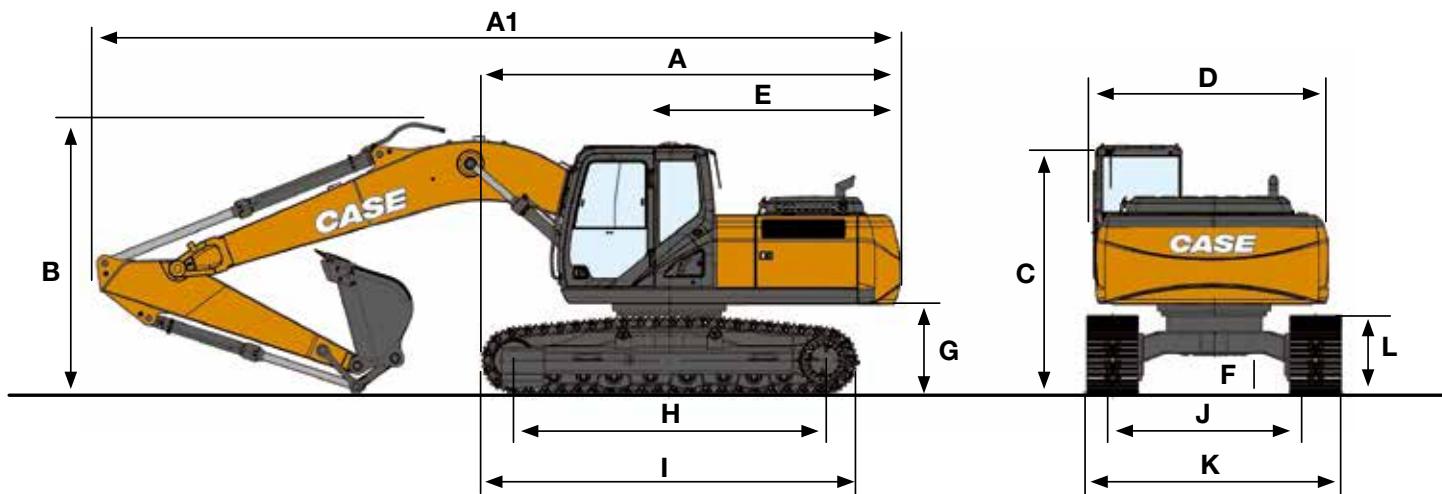
2.40 m arm, 0.9 m³ bucket, 600mm grouser shoe, operator, lubricant, coolant and full fuel tank.

CX220C

OPERATING MASS	20,900 Kg
GROUND PRESSURE	0.043 MPa

* CX220C only

GENERAL DIMENSIONS



GENERAL DIMENSIONS

CX220C

		Arm 2.40 m	Arm 2.94 m	Arm 1.90 m
A	Overall length (without attachment)	mm	4950	4950
A1	Overall length (with attachment)	mm	9480	9400
B	Overall height (with attachment)	mm	3190	2970
C	Cab height	mm	2950	2950
D	Upper structure overall width	mm	2770	2770
E	Swing (rear end radius)	mm	2750	2750
G	Clearance height under upper structure	mm	1040	1040
F	Minimum ground clearance	mm	440	440
H	Wheel base (Center to center of wheels)	mm	3660	3660
I	Crawler overall length	mm	4470	4470
L	Crawler tracks height	mm	920	920
J	Track gauge	mm	2390	2390
K	Undercarriage overall width (with 800 mm shoes)	mm	2990	2990

LIFTING CAPACITY



CX220LC, 2.94 m STD arm, bucket 0.90 m³ (680 kg), 500 mm shoes, max reach 9.91 m

7.5 m						2640*	2640*			1990*	1990*	7,73		
6.0 m						3510*	3450*			1880*	1880*	8,69		
4.5 m					4240*	4240*	3980*	3360	2830*	2360	1870*	1870*	9,27	
3.0 m		9500*	9500*	6970*	6970*	5280*	4670	4380*	3200	3750	2290	1940*	1940*	9,53
1,5 m		7800*	7800*	8610*	6840	6160*	4380	4920	3040	3670	2210	2070*	1980	9,53
0 m		7610*	7610*	9480*	6410	6760*	4140	4820	2910	3600	2150	2300*	2050	9,27
-1,5 m	6920*	6920*	9880*	9880*	9610*	6250	6750	4010	4750	2850		2690*	2250	8,73
-3,0 m	9140*	9140*	13550*	12680	9330*	6310	6730	4040	4790	2900		3410*	2670	7,88
-4,5 m	12810*	12810*	12050*	12050*	8270*	6520	5890*	4260				4870*	3530	6,64



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."