C-SERIES HYDRAULIC EXCAVATORS CX490C / CX500C





IT'S TIME FOR MORE

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MAIN REASONS TO CHOOSE THE C-SERIES



HIGH PRECISION AND CONTROLLABILITY

High performance. Smooth control. Fuel saving. **With CASE Intelligent Hydraulic System.**



HIGH RELIABILITY Robust design. Increased durability. Lower cost of ownership. With the CASE top manufacturing quality and heavy duty arm/boom.





HIGH VERSATILITY

The perfect machine for every application. CX500C Mass Excavation for «ultra heavy-duty» applications. With 3 power modes and 10 auxiliary hydraulic settings.



HIGH EFFICIENCY

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



FAST CYCLES

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





OUTSTANDING VISIBILITY

Safe and fast operations. More comfort. With wider glazed area and rear cameras*. (* Rear cameras are optional)



COMFORT AND SAFETY

Spacious and safe cab. Low noise and vibrations. Ergonomic workstation. Real time parameters monitoring.



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 HYDRAULIC 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 oil flow 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): automatic pressure adjustment during digging and levelling 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 **Tier III Isuzu engines**, designed to boost machine performance 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 fuel utilized.



BUILT TO LAST





HIGH RELIABILITY

Heavy Duty or Mass Excavation: durability is in the CASE DNA.

- CX490C is equipped with Heavy Duty boom and arms as standard, to grant a long-lasting durability in every working conditions.
- For the toughest applications or when a massive production is required (for instance in quarry or mining applications), CX500C is the ideal machine: thanks to the shorter dimensions and the ultra-heavy duty design of both monoboom and arm, the bigger bucket cylinder and the optimized kinematics, CX500C ME works with bigger buckets and provides bigger breakout forces, delivering industry leading speed, productivity and efficiency.

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.
- New high strength casting parts with joined hinge flanges reduce stress on components.
- The 'sloped' Lower frame design reduces the time needed to clean the undercarriage.

C-SERIES HYDRAULIC EXCAVATORS



COMFORTABLE AND SAFE CAB

The ultimate interior cab configuration

- 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-suspesioned seat.
- Air conditioning system with **25%** more airflow and **6%** better performance compared to previous models.



COMFORT RULES FIRST CLASS CAB AND SEAT



C-SERIES HYDRAULIC 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 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.
- Standard refueling pump with auto cut off reduces downtime for regular fills.



SPECIFICATIONS

CX490C / CX500C ME

ENGINE

electronically controlled, high press	ISUZU GH-6UZ1X ooled, 4-cycle diesel, 6-cylinder in line, sure common rail system, turbocharger cooled intercooler, without cooling fan.
Emissions certified	Tier III
Displacement	9.84 l
Bore & stroke	120 x 145 mm
ISO 14396 without Fan Pump	270 kW /362 hp at 2000 min ⁻¹
ISO 14396 Gross Power with Fan Pu	mp 245 kW /329 hp at 2000 min ⁻¹
Maximum torque ISO 14396 Gross Power	1363 Nm at 1500 min ⁻¹

HYDRAULIC SYSTEM

Туре	2 variable displacement axial piston pumps
with regulating system	
Max. oil flow	2 x 400 liter/min at 2000 min ⁻¹
Working circuit pressure	
Boom/Arm/Bucket	31.4 MPa
Boom/Arm/Bucket (with auto	power boost) 34.3 MPa
Swing circuit	29.4 MPa
Travel circuit	34.3 MPa

ELECTRICAL SYSTEM

Circuit	24 V
Alternator	50 Amp
Starter motor	5.5 kŴ
Battery	2 x 12 V 128 Ah/5 HR

SWING

Maximum swing speed	9 min ⁻¹
Swing torque	 150,000 Nm

FILTERS

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

TRAVEL

Travel motor	Variable displacement axial piston motor
(Automatic travel speed shifting)	
Max. travel speed	5.3 km/h
Low travel speed	3.2 km/h
Gradeability	70% (35°)
Drawbar pull	339 kN

UNDERCARRIAGE

Number of carriers rollers (each side)	2
Number of track rollers (each side)	9
Number of shoes (each side)	50
Type of shoe	Triple grouser shoe

CAPACITIES

Fuel tank	650 I
Hydraulic system	460 I
Cooling system	47
Engine crank case	36 I
Hydraulic tank	230 I

OPERATING WEIGHT

CX490C

With 2.53 m HD arm, 2.4 m³ HD bucket, 600 mm grouser shoe, operator (75 kg), lubricant, coolant and full fuel tank						
Operating mass	48,700 kg					
Ground pressure	0.083 MPa					
CX500C (Mass excavation)						
With 2.53 m arm, 2.8 m³ HD bucket, 600 mm grouser shoe, operator, lubricant, coolant and full fuel tank	Arm 2.53 m					
Operating mass	49,300 kg					
Ground pressure	0.084 MPa					

C-SERIES CRAWLER EXCAVATORS



GENERAL DIMENSIONS

			CX490C		CX500C
		_	Arm 2.53 m	Arm 3.38 m	Arm 2.53 m HD
A	Overall length (without attachment)	mm	6445	6445	6445
A1	Overall length (with attachment)	mm	12110	12070	11680
В	Overall height (with attachment)	mm	3660	3660	3770
C	Cab height	mm	3280	3280	3280
D	Upper structure overall width	mm	3060	3060	3060
Ε	Swing (rear end radius)	mm	3730	3730	3730
F	Minimum ground clearance	mm	535	535	535
G	Clearance height under upper structure	mm	1330	1330	1330
H	Wheel base (Center to center of wheels)	mm	4400	4400	4400
I	Crawler overall length	mm	5450	5450	5450
L	Crawler tracks height	mm	1240	1240	1240
J	Track gauge	mm	2750	2750	2750
K	Undercarriage overall width (with 600 mm shoes)	mm	3350	3350	3350

PERFORMANCE DATA

			CX490C	CX500C			
		Arm 2.53 m	Arm 3.38 m	Arm 2.53 m HD		11	
Boom length	mm	6980	6980	6550		<u>ه</u>	
Bucket radius	mm	1860	1860	1950	D	6	6
Bucket wrist action	•	176	176	160			5
A Maximum reach at GRP	mm	11010	11800	10670		E	
B Maximum reach	mm	11250	12020	10920			
C Max. digging depth	mm	6890	7750	6600	_		0 12m 11 10 9 8 7 6 5 7 3 2 1 0
D Max. digging height	mm	10820	11150	10560		-1	
E Max. dumping height	mm	7400	7720	7080		-4	
Arm digging force with auto power up	kN	281	229	274	— c	-4	5
Bucket digging force with auto power up	kN	266	266	300		-7 -7 -8m	

LIFTING CAPACITY

	REACH										
Front	ont 0 m 1.5 m 3.0 m 4.5 m 6.0 m 7.5 m 9 m 10.5 m At max reach							At max reach			
Side					₽				n n m		

CX490C, monoboom, 3.38 m std HD arm, bucket 2.2 m3 (2290 kg), 600 mm shoes, max reach 12 m

9.0 m												6930*	6930*			4370*	4370*	9,65
7,5 m												7560*	7280	4580*	4580*	4210*	4210*	10,55
6.0 m										9170*	9170*	8290*	7060	7400*	5070	4150*	4150*	11,15
4,5 m								12690*	12690*	10360*	9470	8900*	6750	7780*	4910	4230*	3920	11,5
3 m						19740*	19740*	14910*	12960	11590*	8910	9590*	6410	8090	4710	4420*	3720	11,63
1,5 m						22420*	18820	16510*	12020	12560*	8380	10130*	6080	7930	4530	4740*	3690	11,56
0 m				10550*	10550*	23420*	17900	17110*	11390	13020*	7970	10130	5830	7780	4390	5240*	3830	11,27
-1,5 m		12830*	12830*	14600*	14600*	23340*	18010	16960*	11160	12950*	7750	9980	5700	7750	4370	6040*	4180	10,76
-3 m		15420*	15420*	19810*	19810*	21830*	18220	16190*	11250	12420*	7820	9590*	5810			7290*	4820	10
-4,5 m		20530*	20530*	26290*	26290*	19050*	18230*	14360*	11540	10870*	8100					7260*	5990	8,93
-6 m				19180*	19180*	14460*	14460*	10780*	10780*							6860*	6860*	7,46

		REACH															
Front	0 m		3.0 m		4.5 m		6.0 m		7.5 m		9 m		10.5 m		At max reach		
Side																	m

CX490C, monoboom, 2.53 m short HD arm, bucket 2.4 m3 (2380 kg), 600 mm shoes, max reach 11.2 m

9.0 m							5320*	5320*					6580*	6580*	8,67
7,5 m							9080*	9080*	8420*	7040			6320*	5920	9,69
6.0 m					10850*	10850*	10110*	9670	8880*	6870			6240*	5040	10,34
4,5 m			17780*	17780*	14060*	13350*	11210*	9210	9560*	6600	8210	4800	6310*	4540	10,72
3 m			21340*	19520	16000*	12530	12290*	8710	10080*	6300	8070	4660	6550*	4310	10,86
1,5 m			19810*	18000	17120*	11750	13000*	8260	10330	6040	7930	4530	6980*	4290	10,78
0 m			21230*	17590	17200*	11310	13140*	7940	10140	5860			7690*	4490	10,47
-1,5 m	15690*	15690*	22470*	17980	16760*	11290	12900*	7860	10050	5840			8180*	4970	9,92
-3 m	22670*	22670*	20240*	18460	15440*	11480	11850*	8020	8480*	6020			7960*	5870	9,09
-4,5 m	21320*	21320*	16620*	16620*	12770*	11640	9200*	8220*					7410*	7410*	7,91
-6 m			10530*	10530*									7250*	7250*	5,96

				REACH			
Front	0 m	3.0 m	4.5 m	6.0 m	7.5 m	9 m	At max reach
Side		₽.	, •₁-•				n m

CX500C, short monoboom, 2.53 m short HD arm, bucket 2.8 m3 (2850 kg), 600 mm shoes, max reach 10.9 m

9.0 m							7380*	7380*			5680*	5680*	8,09
7,5 m							9100*	9100*	7200*	6660	5350*	5350*	9,2
6.0 m					10170*	10170*	10050*	9520	8750*	6600	5210*	5210*	9,9
4,5 m			17330*	17330*	13730*	13270	11040*	9070	9400*	6360	5260*	4630	10,32
3 m			20840*	19990	15750*	12520	12090*	8550	9900*	6080	5480*	4350	10,48
1,5 m			23300*	18470	16920*	11710	12790*	8090	10120	5820	5880*	4320	10,41
0 m	12950*	12950*	23650*	17910	17000*	11230	12900*	7770	9950	5640	6540*	4540	10,1
-1,5 m	19150*	19150*	22470*	18240	16510*	11170	12530*	7670	9500*	5620	7620*	5090	9,53
-3 m	26810*	26810*	19940*	18350	14930*	11370	11120*	7860			7770*	6150	8,66
-4,5 m	20340*	20340*	15600*	15600*	11540*	11380					6880*	6880*	7,4

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