

C-SERIES HYDRAULIC EXCAVATORS
CX380C

CASE
CONSTRUCTION



QUALITY
YOU CAN TRUST

www.casece.com
EXPERTS FOR THE REAL WORLD
SINCE 1842

MAIN REASONS



HIGH PRECISION AND CONTROLLABILITY

High performance, smooth control and 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 and heavy duty arm/boom.



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 LED cluster.



TO CHOOSE THE C-SERIES



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



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)**: automatic pressure and flow adjustment 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.



CRAWLER EXCAVATORS



HIGH RELIABILITY

HD 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 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 –suspended 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

CX380C

ENGINE

Model _____ ISUZU GH-6HK1X
Type _____ Water-cooled, 4-cycle diesel, 6-cylinder in line,
electronically controlled, high pressure common rail
system, turbocharger, air cooled intercooler.
Emission certified _____ Tier 3
Displacement _____ 7.79 l
Bore/Stroke _____ 115 x 125 mm
Rated flywheel horse power
Horsepower ISO 14396 GROSS _____ 212 kW (284 hp) at 1900 min⁻¹
Horsepower SAE J1349 NET _____ 200 kW (268 hp) at 1900 min⁻¹
Maximum torque SAE J1349 NET _____ 1020 Nm at 1500 min⁻¹
Maximum torque SAE J1349 NET _____ 983 Nm at 1500 min⁻¹

HYDRAULIC SYSTEM

Type _____ 2 variable displacement axial piston pumps with regulating system
Max oil flow _____ 2 × 300 liter/min at 2000 min⁻¹
Working circuit pressure
Boom/Arm/Bucket circuit _____ 34.3 MPa
Boom/Arm/Bucket circuit (with auto power up) _____ 37.3 MPa
Swing circuit _____ 30.4 MPa
Travel circuit _____ 34.3 MPa

SWING

Maximum swing speed _____ 9.4 min⁻¹
Swing torque _____ 112,000 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 _____ 5.4 km/h
Low travel speed _____ 3.4 km/h
Gradeability _____ 70% (35°)
Drawbar pull _____ 263 kN

ELECTRICAL SYSTEM

Circuit _____ 24V
Alternator _____ 50 Amp
Starter motor _____ 5.0 kW
Battery _____ 2 × 12 V 128 Ah / 5 HR

UNDERCARRIAGE

Number of carriers rollers (each side) _____ 2
Number of track rollers (each side) _____ 8
Number of shoes (each side) _____ 48
Type of shoe _____ Triple grouser shoe

CAPACITIES

Fuel tank (l) _____ 580
Hydraulic system (l) _____ 350
Cooling system (l) _____ 32,9
Engine crank case (l) _____ 41

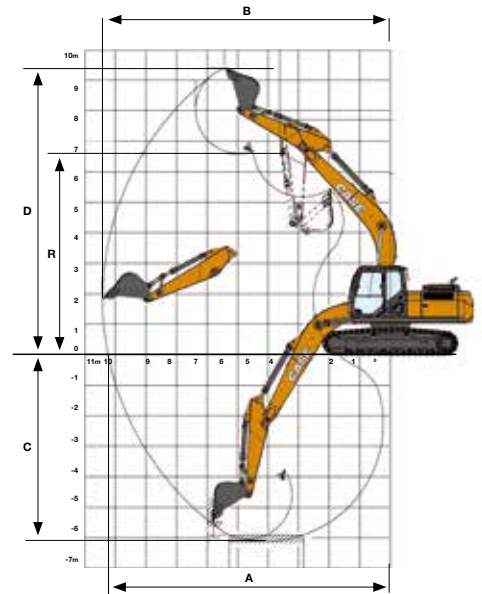
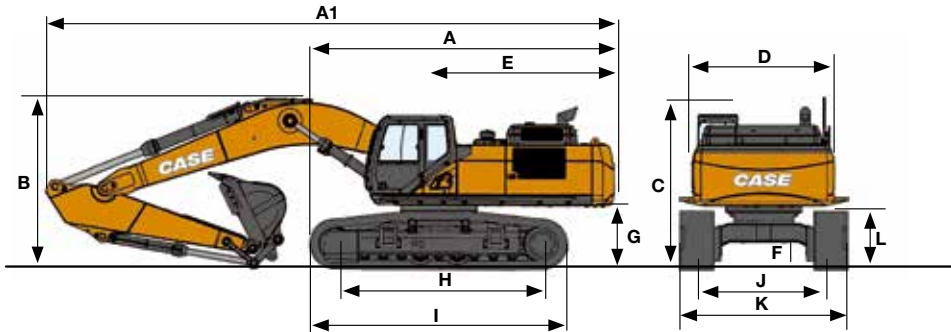
WEIGHT

3.25 m HD arm, 1.6 m³ bucket, 600mm grouser shoe,
operator, lubricant, coolant, full fuel tank

CX370C	OPERATING MASS	GROUND PRESSURE
600 mm grouser shoe	37,120 kg	0.070 Mpa

CRAWLER EXCAVATORS

GENERAL DIMENSIONS



CX380C - arm length

			2.65 m	3.25 m	4.04 m
A	Overall length (without attachment)	mm	6010	6010	6010
A1	Overall length (with attachment)	mm	11230	11140	11200
B	Overall height (with attachment)	mm	3640	3420	3650
C	Cab height	mm	3140	3140	3140
D	Upper structure overall width	mm	3120	3120	3120
E	Swing (rear end) radius	mm	3550	3550	3550
F	Clearance height under upper structure	mm	1200	1200	1200
G	Minimum ground clearance	mm	470	470	470
H	Wheel base (Center to center of wheels)	mm	4040	4040	4040
I	Crawler overall length	mm	4980	4980	4980
L	Crawler tracks height	mm	1090	1090	1090
J	Track gauge	mm	2600	2600	2600
K	Undercarriage overall width (with 600 mm shoes)	mm	3200	3200	3200

PERFORMANCE DATA

			2.65 m	3.25 m	4.04 m
	Boom length	mm	6450	6450	6450
	Bucket radius	mm	1680	1680	1680
	Bucket wrist action	°	173	173	173
A	Maximum reach at GRP	mm	10470	10980	11720
B	Maximum reach	mm	10670	11170	11900
C	Max. digging depth	mm	6730	7340	8140
D	Max. digging height	mm	10320	10370	10670
E	Max. dumping height	mm	7140	7230	7540
	Arm digging force with auto power up	kN	213	179	153
	Bucket digging force with auto power up	kN	252	252	252

LIFTING CAPACITIES

BUCKET TYPE VS DENSITY

	Capacity m ³	Number of teeth	Weight (kg)	CX380C		
				Arm 2.65 m	Arm 3.25 m	Arm 4.04 m
GP	1,15	4	1035	o	o	o
GP	1,40	5	1160	o	o	●
GP	1,60	5	1225	o	o	■
GP	1,80	5	1300	o	●	x
HD	1,40	5	1490	o	o	●
HD	1,60	5	1570	o	●	■
HD	1,80	5	1490	●	●	x
RC	1,60	5	1645	o	●	■
RC	1,80	5	1750	●	●	x
RC	2,00	5	1825	●	■	x

- o Suitable for materials with density up to 2,000 kg/m³ or less
 ● Suitable for materials with density up to 1,600 kg/m³ or less

- Suitable for materials with density up to 1,200 kg/m³ or less
 x Not applicable

Front 360°	REACH											
	0 m	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	At max reach	m				

CX380C, Arm Size: 2.65m, Bucket: 1.60 m³ (1580 kg), Shoes: 600 mm, Max Reach: 10.7 m

9.0 m													5240*	5240*	7,53
7.0 m								7030*	6110				4770*	4620	9,08
5.0 m							9360*	9360*	7670*	5820			4690*	3690	9,91
3.0 m					17310*	16800	11530*	8840	8550*	5410	5880	3500	4850*	3310	10,24
1.0 m					14410*	14410*	12960*	8040	8370	5040	5720	3360	5260*	3280	10,12
0 m					15850*	14430	13140	7780	8220	4900			5620*	3380	9,91
-1.0 m					18820*	14520	13040	7640	8130	4820			6100*	3590	9,58
-3.0 m			16510*	16510*	18270*	15260	12250*	7760	8170	4990			7000*	4440	8,54
-5.0 m					13680*	13680*	9010*	8080					6420*	6420*	6,81

CX380C, Arm Size: 3.25m, Bucket: 1.40 m³ (1510 kg), Shoes: 600 mm, Max Reach: 11.2 m

9.0 m								4470*	4470*				3510*	3510*	8,23
7.0 m								6330*	6220				3230*	3230*	9,65
5.0 m							7540*	7540*	7090*	5980	5420*	3760	3210*	3210*	10,43
3.0 m					16530*	16530*	10880*	9100	8180*	5530	5960	3570	3360*	3030	10,74
1.0 m					19610*	15370	12630*	8200	8450	5110	5750	3380	3700*	2980	10,63
0 m					18410*	14820	13040*	7880	8260	4940	5670	3310	3980*	3060	10,43
-1.0 m			9510*	9510*	19770*	14660	13070*	7670	8130	4820	5530*	3280	4360*	3220	10,12
-3.0 m			15080*	15080*	19290*	15030	12640*	7660	8140*	4840			5660*	3890	9,14
-5.0 m			22720*	22720*	15610*	15180*	10380*	8070					6700*	5530	7,54

TIPPING CAPACITY (MARK:) = 75.0 (%)
 HYDRAULIC CAPACITY (MARK:*) = 87.0 (%)

STANDARD AND OPTIONAL

 Front 360°	2.0 m		4.0 m		6.0 m		8.0 m		10.0 m		At max reach		m
													

CX380C, Arm Size: 4.04m, Bucket: 1.40 m³ (1510 kg), Shoes: 600 mm, Max Reach: 11.9 m

9.0 m											2620*	2620*	9,19
7.0 m									3940*	3940*	2410*	2410*	10,47
5.0 m							6200*	6050	5520*	3820	2400*	2400*	11,18
3.0 m			14990*	14990*	9740*	9220	7460*	5610	5980	3570	2520*	2520*	11,46
1.0 m			18480*	15790	11800*	8300	8380	5090	5700	3310	2790*	2490	11,37
0 m	6210*	6210*	19350*	14910	12450*	7870	8220	4880	5580	3210	3010*	2540	11,18
-1.0 m	8640*	8640*	19990*	14440	12780*	7560	8030	4710	5500	3130	3290*	2660	10,89
-3.0 m	13130*	13130*	19780*	14450	12640*	7350	7890	4590			4210*	3140	9,98
-5.0 m	20830*	20830*	17190*	14940	11290*	7630	7520*	4910			6220*	4260	8,54
-7.0 m			11220*	11220*	6680*	6680*					5860*	5860*	6,26

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
 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 cockpit
 Mechanical suspended seat
 Arm rest
 Color lcd monitor display
 Auxiliary select system
 Aux-in port for personal electronics
 Rubber floor mat
 One-piece right hand window
 Windshield wiper / washer
 Storage compartments
 On-board diagnostic system
 Standard handrails
 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

6,45 meter hd 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

OPTIONAL EQUIPMENT

CAB AND OPERATOR COMPARTMENT

Rops/fops protection
 Iron roof window
 Sun visor & rain deflector
 Sun shade
 Case telematics

EQUIPMENT AND UNDERCARRIAGE

Arm 2.20m hd
 Arm 2.60m hd
 Arm 3.20m hd
 Hd bucket linkage w hook

Arm and boom hose burst check valves
 600mm triple grouser steel shoes
 800mm triple grouser steel shoes
 Double track guide
 Full track guide
 Auxiliary single acting circuit
 Auxiliary single or double acting circuit
 Auxiliary double acting circuit
 Hose burst control valve on boom & arm cylinder with
 Over load warning device
 Refuel pump
 Lower front screen (mesh type)
 Upper front screen (mesh type)

Front grill (bar, opg1)
 Front grill (bar, opg2)
 Air-pre cleaner - cup type
 Air-pre cleaner - cyclone type



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

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