

CX

SERIES HYDRAULIC EXCAVATORS
CX80

CASE



P R O F E S S I O N A L P A R T N E R

CX80

ENGINE

Engine meeting European standards (Tier 2 regulations) "low smoke emissions". Particularly suitable for urban work, these engines have a very reduced noise level, one of the lowest fuel consumptions on the market and also meet environmental standards. Checking the engine rotation speed using an electric potentiometer. Manual return to idle, control on RH control lever. Engine pre-heating. High performance filtration circuit enables oil change intervals to be extended to every 500 h.



Make	ISUZU
Type	CC-4JG1
Turbo	No
Fuel injection	Electrically controlled
Number of cylinders	4
Bore x stroke	95.4 x 107 mm
Capacity	3059 cm ³
Power at 2100 rpm EEC 80/1269	39.1 kW - 52.4 hp

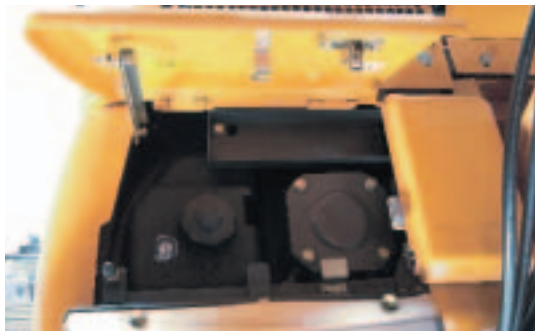


HYDRAULIC SYSTEM



FILTRATION

Hydraulic system components protected by "ULTRA CLEAN" filter which filters out particles larger than 1μ and also traces of condensation water.
High performance filtration for longer hydraulic fluid life-time (fluid change interval now 5000 hours).



2 variable displacement axial piston hydraulic pumps feeding the attachment, the travel and the swing.

Maximum flow	2 x 71.4 l/min
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1 gear pump feeding the dozer blade	
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Maximum flow	1 x 25.4 l/min
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Safety valve pressure:	
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Attachment, boom swing	294 bar
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Swing	226 bar
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Travel	294 bar
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Dozer blade	226 bar
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SWING

Fixed displacement, axial piston swing motor.
Upperstructure swing speed 10 rpm.
Planetary reduction gear with automatic braking by oil bath disc brakes.

TRAVEL

Variable displacement, axial piston hydraulic motors.
Planetary reduction gear with automatic braking by oil bath disc brakes.
Two travel speeds (selected on the instrument panel)

High speed	4.9 kph
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Low speed	3.4 kph
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CX80

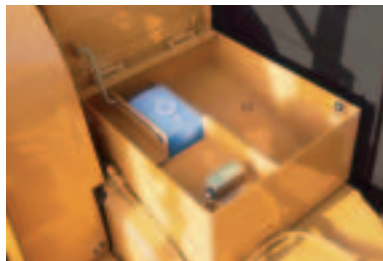
CAB

With CASE machines, "smaller machine dimensions" don't mean that there is less space for the operator. The CX80 cab has the same level of comfort and convenience as the standard models in the CX range;

it is integrated with the upperstructure and therefore does not affect manoeuvrability on 360° swing. It's still wide enough to provide the operator with maximum comfort and all the advantages of a "standard" machine, including mechanical suspension and a multi-adjustable driver's seat, with a storage compartment to the rear LH of the seat.

The cab has a large roof window, enabling continuous checking of the bucket position when the attachment is fully retracted.

For operator comfort, the cab is insulated from vibration and noise by four elastofluid mountings.



SYSTEM AND COMPONENT CAPACITIES

Hydraulic reservoir	50 l
Hydraulic system	95 l
Travel reduction gear (per side)	1.3 l
Engine (with filter change)	9.6 l
Fuel tank	100 l
Cooling system	9.6 l

ELECTRICAL CIRCUIT

Voltage	12 V
Alternator	50 A/h
Starter motor	12 v - 2.2 kW

RESPECT OF ENVIRONMENT

The CX80 respects the **European "reduced noise level"** as per directive 200/14/EC Phase 2.



UNDERCARRIAGE



LC type undercarriage providing excellent stability (as a result of its length) and loading capacity comparable to machines of standard dimensions.

Steel or rubber tracks are available.

Upper and lower tracks equipped with bushings and seals.

Travel motors protected and incorporated in the undercarriage.

Track tension adjustable by grease cylinder.

SPECIFICATIONS (per track set)

Number of upper rollers	1
Number of lower rollers	5
Number of track pads	39
Type of track pads	triple grousers
Rubber track pads	optional
Standard track pad size	450 mm
Gradeability	70% (35°)
Front chain guide	yes

DOZER BLADE

Dozer blade control lever at console height to the right hand side of the cab. Dozer blade movement by a central hydraulic cylinder.

Dozer blade width	2.320 m
Dozer blade height	0.450 m
Maximum raising height	0.415 m
Maximum underground lowering depth	0.205 m



ATTACHMENTS

To meet user requirements, CASE CX80 crawler excavator is suitable for every type of work-site. This machine is mainly used on the following types of work:

- **Construction and maintenance of high speed roads and urban streets.**
- **Construction in residential areas.**
- **Demolition.**
- **Forestry work.**
- **Machine hire companies.**

To provide best possible profitability in the various sorts of work encountered, machine configuration needs to be able to be changed quickly and easily.

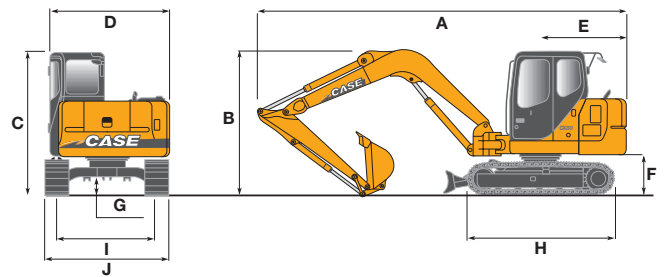
THE "CASE" ANSWERS

- **A choice of two dipper lengths.**
- **"MULTIFIT" quick coupler.**
- **Supply to the most varied types of implement**, using supplementary hydraulic functions (swing, tool orientation, etc.)
- **Reduced maintenance costs** using EMS (Easy Maintenance System) which is standard on the boom foot and head linkages. This system, which is also used on the heavy CX machines, provides a considerable reduction in maintenance intervals (every 1000 h).



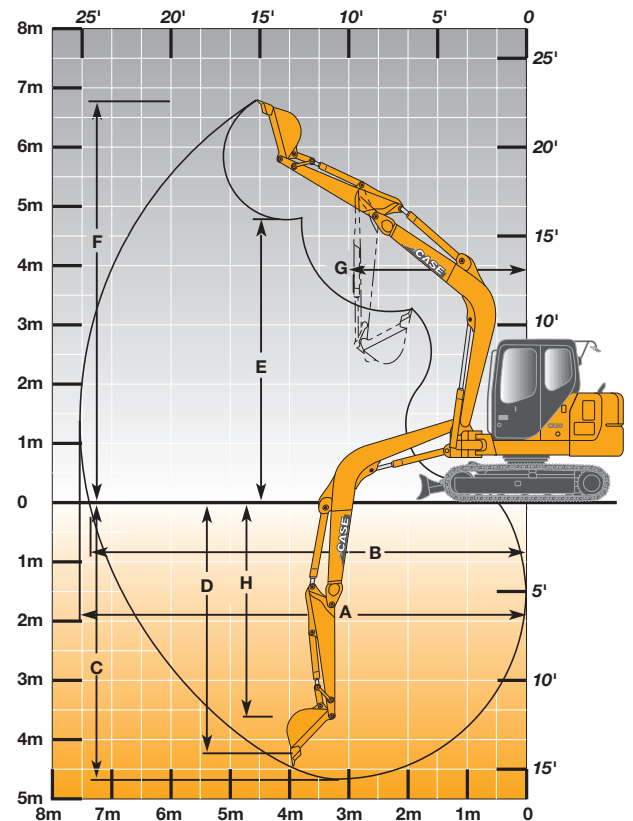
/ GENERAL DIMENSIONS

Dipper length	1.70 m	2.10 m
A Overall length (with attachment)	6.63 m	6.71 m
B Overall height (with attachment)	2.70 m	2.70 m
C Cab height	2.70 m	2.70 m
D Upper structure overall width	2.22 m	2.22 m
E Tail swing radius	1.63 m	1.63 m
F Upperstructure clearance	0.74 m	0.74 m
G Minimum ground clearance	0.36 m	0.36 m
H Crawler overall length	2.84 m	2.84 m
I Track gauge	1.87 m	1.87 m
J Undercarriage overall width (450 mm shoes)	2.32 m	2.32 m



/ WORKING RANGES (Boom length 3.50 m)

Dipper length	1.70 m	2.10 m
A Maximum reach	7.03 m	7.40 m
B Max. reach at ground level	6.89 m	7.27 m
C Max. digging depth	4.20 m	4.61 m
D Digging depth on 2.44 m level bottom	2.44 m	4.25 m
E Max. dumping height	4.37 m	4.58 m
F Max. digging height	6.37 m	6.58 m
G Min. front swing radius	2.75 m	2.91 m
H Max. vertical wall cut depth	3.10 m	3.57 m
Boom swing left	80°	80°
Boom swing right	50°	50°
Digging Force	3830 daN	3300 daN
Breakout Force	5690 daN	5690 daN



/ BUCKETS

General purpose

Capacity SAE	I	110	130	140	160	240	310	360
Width	mm	300	350	400	450	600	750	850
Weight	kg	117	125	138	145	170	200	220

For other types of bucket, please contact your Case dealer.

/ WEIGHT AND GROUND PRESSURE

Operating weight	8300 kg
Ground pressure	0.37 bar

with 1.70 m arm, bucket, 450 mm shoes, operator, lubricant, coolant and full fuel tank



LIFTING CAPACITY

CX80 with dozer blade down - 3.50 m boom - 1.70 m dipper - bucket - 450 mm shoes

Height	Reach										
	2.0 m		3.0 m		4.0 m		5.0 m		At max reach		
	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	m
5 m									1380 *	1380 *	4.36
4 m							1490 *	1450	1530 *	1350	5.21
3 m					1700 *	1700 *	1650 *	1420	1670 *	1130	5.71
2 m			3560 *	2990	2370 *	1920	1960 *	1370	1810 *	1030	5.96
1 m			3870 *	2750	3060 *	1810	2310 *	1310	1970 *	990	6.00
0 m			4040 *	2670	3530 *	1750	2590 *	1270	2170 *	1010	5.83
-1 m	3280 *	3280 *	5440 *	2670	3700 *	1720	2720 *	1250	2420 *	1100	5.44
-2 m	4850 *	4850 *	5260 *	2690	3560 *	1730			2780 *	1350	4.76
-3 m	6850 *	5790	4310 *	2770					3460 *	2140	3.54

CX80 with dozer blade down - 3.50 m boom - 2.10 m dipper - bucket - 450 mm shoes

Height	Reach												
	2.0 m		3.0 m		4.0 m		5.0 m		6.0 m		At max reach		
	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	Front	360°	m
5 m		1240*									4.93		
4 m		1370*					1230*	1230*			5.68		
3 m		1500*					1420*	1420*	1480*	1050	6.13		
2 m		1590*	2740 *	2740	2020*	1950	1750*	1370	1630*	1020	6.36		
1 m		1770*	4490 *	2800	2760*	1830	2130*	1310	1830*	990	6.39		
0 m	1690 *	1690	4160 *	2670	3340*	1740	2460*	1260	2010*	960	1940 *	900	6.24
-1 m	2810*	2810	4980 *	2630	3630*	1700	2660*	1230			2160 *	970	5.89
-2 m	4100 *	4100	5460 *	2640	3630*	1690	2650*	1220			2460 *	1140	5.27
-3 m	5790 *	5640	4790 *	2690	3230*	1730					2950 *	1580	4.25

- Machine in «LIGHT» mode
- Lift capacities are taken in accordance with SAE J 1097 / ISO 10567 / DIN 15019-2.
- Lift capacities shown in kg do not exceed 75% of the tipping load or 87% of the hydraulic lift capacity.
- Capacities that are marked with an asterisk are hydraulic limited



CX80

STANDARD EQUIPMENT

- Swing boom
- Steel tracks 450 mm
- High performance "ULTRA CLEAN" (1 μ) filtration system
- "Auxiliary" control valve section
- Dozer blade
- 2 travel speeds
- Load-holding valves (boom and dipper)
- Tier 2 engine (reduced smoke emissions and noise level)
- Electric motor speed control
- Automatic engine speed return to idle
- RH, LH and rear rear-view mirror (safety when swinging and reversing)

Standard and optional equipment shown can vary by country.

POSSIBLE ADDITIONAL OPTIONS

- Single-acting system ("hammer" type)*
- "Multipurpose" circuit (hammer or shears)*
- Double-acting circuit (shears, etc.)*
- 2nd auxiliary circuit (clamshell orientation type)*
- Backhoe-clamshell circuit*
- "MULTIFIT" Hydraulic quick coupler
- FOPS (roof) cab protection
- Self-regulating air conditioning
- Rubber tracks 450 mm
- Safety valves (boom - dipper)

* Note: availability of these circuits varies depending on the type of boom and length of the dipper.



SERVICE & SUPPORT

THE CASE DEALER
YOUR PROFESSIONAL PARTNER



WORLDWIDE CASE CONSTRUCTION EQUIPMENT CONTACT INFORMATION

EUROPE/AFRICA/MIDDLE EAST:

CENTRE D'AFFAIRES EGB
5, AVENUE GEORGES BATAILLE - BP 40401
60671 LE PLESSIS-BELLEVILLE - FRANCE

NORTH AMERICA/MEXICO:

700 STATE STREET
RACINE, WI 53404 U.S.A.

LATIN AMERICA:

AV. GENERAL DAVID SARNOFF 2237
32210 - 900 CONTAGEM - MG
BELO HORIZONTE BRAZIL

ASIA PACIFIC:

UNIT 1 - 1 FOUNDATION PLACE - PROSPECT
NEW SOUTH WALES - 2148 AUSTRALIA

CHINA:

No. 29, INDUSTRIAL PREMISES, No. 376,
DE BAO ROAD, WAIGAOQIAO FTZ, PUDONG,
SHANGHAI, 200131, P.R.C.

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

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Conforms to directive 98/37/CE



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