SERIES HYDRAULIC EXCAVATORS CASE SERIES HYDRAULIC EXCAVATORS CX130





Latest generation engine, meeting European standards (Tier 2 "low smoke emission").

Make	ISUZU
Type	BB-4BG1T
Turbo	Yes
Injection	electronically controlled
No. of cylinders	4
Bore - Stroke	105 x 125 mm
Cubic capacity	
EEC 80/1269 horsepower	69 kW - 94 hp
Vitesse de rotation	2100 rpm

Automatic engine pre-heating provides for optimum and immediate operation as soon as the working temperature is reached, a guarantee of longer life for the engine and the hydraulic components.

The injection pump is directly, electronically controlled by a special calculator which takes the hydraulic system load parameters into account. Regulation is quicker and more efficient than on conventional systems, reducing smoke and noise emissions and also significantly reducing fuel consumption.





HYDRAULIC SYSTEM

Linked to the engine power management electronic system, a second electronic system manages all the hydraulic parameters so as to obtain the highest possible available hydraulic power, under optimum conditions of efficiency and economy.

The system consists of two axial piston, variable flow pumps.

Max output2 x 123	l/min
Max safety valve pressure	

via.	a safety varve pressure		
P	Attachment / Power Boost 343/	363	bar
Ţ	Jpperstructure swing	280	bar
7	Fravel	343	bar

CONTROL VALVES

4 sections for: LH travel, boom, bucket, and dipper acceleration

5 sections for: RH travel, swing, dipper, auxiliary circuit and boom acceleration.

SWING

Axial piston, fixed flow motor
Max upperstructure swing speed13.4 rpm
Swing torque3300 daN
Hydraulic system gives priority to the swing when
operated simultaneously with the dipper.
Hydrostatic swing brake backed up by mechanical brake
during swing stopping and when machine is being
transported. Hydrostatic upperstructure braking during
working phases, with an "anti-bounce" valve stopping
neatly and accurately over a truck body or trench.

Backhoe clamshell circuit operated by means of a manual control on the dipper.

Auxiliary circuit

Using the auxiliary section available as standard, a maximum number of different tools and assemblies can be used, to suit customer requirements (See options).

FILTRATION:

Exceptionally fine protection of all hydraulic system components by means of the "ULTRA CLEAN" system (a special filter which removes all particles over 1 micron in size, as well as all traces of water condensation). The use of this system means the hydraulic fluid retains all its qualities for 5000 hours, thus reducing servicing intervals and maintenance costs. The hydraulic system is also equipped with an inlet filter, a return filter and a filter on the pilot circuit.

TRAVEL:

The travel circuit is equipped with two axial piston, variable flow motors.

Planetary reduction gear, automatic multi-disc brake.	
Max travel speed 5.5 kp	h
Low travel speed	h
Speed change is controlled from the instrument panel.	
Gradeability)
Tractive force 10000 da	N





Circuit	24 volts
Batteries:	. 2 x 12 v - 96 A/h
Circuit equipped with water-proof conr	nectors
Alternator	24 v - 40 A/h

🔟 UNDERCARRIAGE

The LC type "X" design, strongly built undercarriage provides for quick travel over all types of work-site and better stability when working or travelling under load. Perfectly protected motors and piping, a guard underneath the hydraulic swivel, high ground clearance - for easy access to the most difficult work-sites.

Spring-type track tensioning, adjustable by an easily accessible grease cylinder.

Specifications (per track set):

Upper rollers	1
Lower rollers	7
Number of track pads	43
Type of shoes	Triple grouser
Standard track pad width	600 mm
Chain guides	Front and central





Combining comfort, safety and ergonomics, the CX130 cab has been designed to provide the best possible working conditions in a pleasant environment, thus enabling the operator to get the very best out of his machine.

Access to the operator's compartment is facilitated by a wide door and the fact that the LH control arm can be raised completely out of the way.

Exceptional cab width (1.00 metre) providing a spacious, airy working space.

Ergonomic seat with multiple adjustments is standard equipment.

The windscreen can be raised and locked in the upper or lower position.

The lower portion of the windscreen can be removed and placed in a storage compartment at the rear LH side of the cab.

The windscreen wiper is mounted on the RH cab pillar. The cab floor is flush with the door sill for easy cleaning. Ventilation and defrosting of the cab by adjustable outlets (windscreen, operator, rear of cab).

Radio pre-equipment with loud-speaker housings. Double sliding window on door.

Wide foot-rest on either side of the travel pedals and

Optional pedal location (hammer, offset, etc.)





COMFORT - OPERATION - SAFETY

The safety console and the control panel are located to the right of the operator.

They include:

A large back-lit LCD screen, clearly displaying messages and indicators covering the vital functions of the machine - in a choice of 14 languages.

Touch controls for work mode, travel speed, automatic mode and emergency stop are provided.

There is also a touch control to select the attachment shock absorbing function: a soft or firm mode can be selected by the operator depending on the work being done. "Clear language text and symbol" messages, plus an audible warning, enable the operator to check that his machine is operating correctly.

ENGINE RETURN TO IDLE

The engine return to idle can be automatic or manual as required by the operator (control on RH control lever).

ANTI-THEFT PROTECTION

An anti-theft system incorporated into the machine's electronic system is standard equipment.



WORK MODES

Hydraulic power is controlled by the electronic system, which provides a continuous link between the hydraulics and the engine.

The operator has a choice of 3 "traditional" modes, plus one "automatic" mode:

H mode (Heavy) uses all the machine's available power for tough jobs, providing optimum efficiency, high working speed and maximum force.

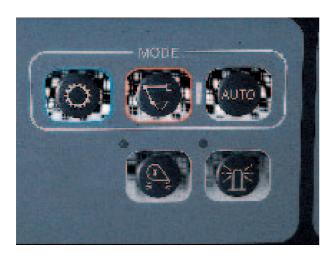
S mode (Standard) is the "traditional" working mode. It gives 90% of H mode performance (power and speed), and greater fuel economy.

L mode (Light) is the mode to be used for finishing work (sloping banks, profiles, etc), where precision is what is required. It's also the mode used when handling loads and travelling with loads, due to the reduced flow and the continuous availability of **Power Boost** (maximum pressure applied continuously).

For higher efficiency and maximum use of the machine's resources, certain functions have been simplified for the operator. This is the case for the Automatic Mode.

The **AUTO mode** on the new CX130 considerably simplifies machine operation, since it enables the working mode to be changed automatically and continuously (without any action on the part of the operator), depending on the type of work being done.

Over all the cycles performed, a real reduction in fuel



consumption is found compared with continuous use in one single working mode.

AUTO POWERBOOST

To simplify the operator's work even further, enabling him to get the maximum performance from his machine, CASE uses a totally automatic powerboost. Regardless of the working mode, AUTO POWERBOOST on the CX130 cuts in whenever the machine encounters a difficult obstacle.

For a period of **8 seconds** the force at the dipper and bucket is increased by 8 to 10 %, totally automatically.





ATTACHMENT

For quick attachment changing, a hydraulic quick coupler is recommended. MULTI-FIT is the CASE hydraulic quick coupler which has a self-locking mechanical safety system (so the operator doesn't have to climb down from his cab).

This coupler can take buckets made by competing manufacturers, without modification, since it can accept varying centre distances (the clearance is automatically taken up).

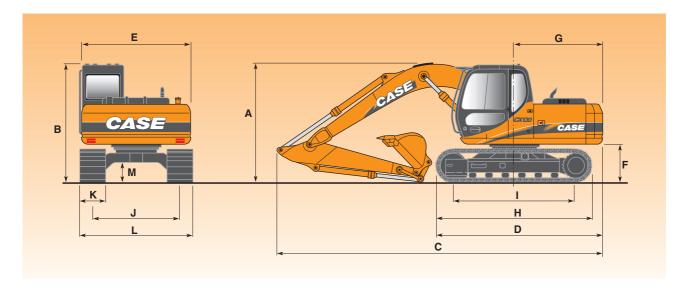


Hydraulic reservoir	73 1
Hydraulic system	
Travel reduction gear (per side)	
Swing reduction gear	2.2 1
Engine (including filter change)	15 l
Fuel tank	250 1
Engine coolant circuit	17.7 1





GENERAL DIMENSIONS



A Overall height*	2.74 m
B Cab height	2.74 m
C Overall length*	7.49 m
D Overall length (wo/attachment)	3.81 m
E Width of upperstructure	2.52 m
F Upperstructure ground clearance	0.89 m
G Swing (rear end) radius	2.05 m
H Track overall length	3.51 m

I Centre/centre (idler t	2.78 m				
J Track gauge		1.99 m			
K Track shoes width (st	600 mm				
L Track overall width	Shoes 500 mm	2.49 m			
	Shoes 600 mm	2.59 m			
	Shoes 700 mm	2.69 m			
M Ground clearance		0.44 m			
* With 4.60 m monobloc boom - 2.50 m dipper and bucket.					



WEIGHT AND GROUND PRESSURE

With 4,60 m monobloc boom - 2,50 m dipper -	Weight	Ground
bucket - operator and full fuel tank	(kg)	pressure (bar)
Shoes 500 mm rubber	12100	0.38
Shoes 500 mm steel	12150	0.39
Shoes 600 mm steel	12300	0.33
Shoes 700 mm steel	12600	0.29



BUCKETS

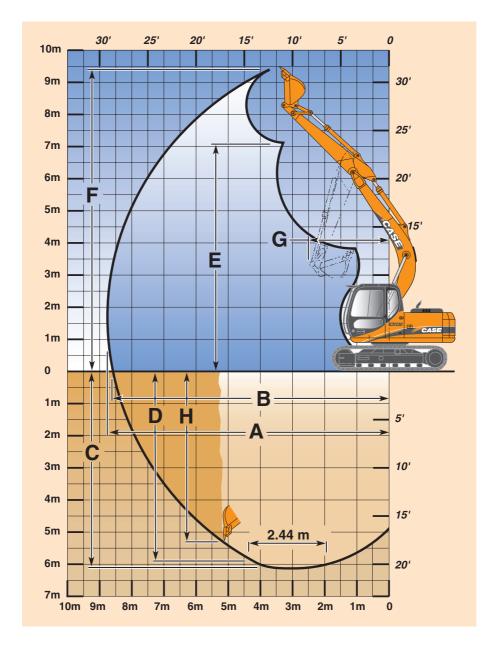
General purpose

SAE capacity	Litres	155	220	320	430	540	620	700	770
Width	mm	350	450	600	750	900	1000	1100	1200
Weight	kg	270	300	330	370	410	440	470	490

Heavy duty

0.4.17	T *.			(20	=00
SAE capacity	Litres			620	700
Width	mm			1000	1100
				/	/
Weight	kg			450	485





Dipper:	2.10 m	2.50 m	3.00 m
A Maximum digging reach	7.92 m	8.27 m	8.74 m
B Maximum digging reach at ground level	7.78 m	8.13 m	8.61 m
C Maximum digging depth	5.16 m	5.54 m	6.10 m
D Digging depth - 2.44 m (8') level bottom	4.92 m	5.35 m	5.92 m
E Maxi dump height	6.50 m	6.77 m	7.06 m
F Overall reach height	8.90 m	9.16 m	9.45 m
G Minimum swing radius	2.04 m	2.05 m	2.58 m
H Vertical straight wall dig depth	4.80 m	4.96 m	5.34 m
Digging force	8020 daN	6740 daN	5610 daN
Breakout force	9740 daN	9740 daN	9740 daN



With 4.60 m boom, 2.10 m dipper, 600 mm shoes and bucket

Reach	1.5	m	3	m	4.5	m	6	m	7.5	m	m	ax	Max reach
Height	front	360°	front	360°	front	360°	front	360°	front	360°	front	360°	m
6 m					3080*		2742*		4.84				
4.5 m					3306*	3181	2404*	1909			1839*	1815	6.16
3 m			56	5686*		2970	2607	1839			1882*	1510	6.68
1.5 m			7899	5051	3959	2727	2500	1738			2016	1393	6.85
0			7574	4780	3776	2560	2417	1660			2056	1410	6.67
-1.5 m	59:	38*	7554	4764	3716	2506	2396	1641			2329	1596	6.12
-3 m	96	37*	7615*	4882	3780	2564					3142	2154	5.08
-4.5 m													

With 4.60 m boom, 2.50 m dipper, 600 mm shoes and bucket

Reach	1.5	1.5 m		m 4		4.5 m		4.5 m		6 m		m	max		Max reach
Height	front	360°	front	360°	front	360°	front	360°	front	360°	front	360°	m		
6 m					26	68*					210	03*	5.39		
4.5 m					294	43*	2713*	1941			149	90*	6.55		
3 m			49	30*	3768*	3019	2629	1857			1519*	1377	7.05		
1.5 m			7650*	5191	4001	2763	2511	1747			1650*	1273	7.20		
0	26	61*	7620	4816	3791	2573	2413	1655			1879	1283	7.03		
-1.5 m	5336*		7530	4741	3702	2491	2369	1615			2096	1429	6.52		
-3 m	83	59*	7623	4819	3729	2517					2702	1850	5.56		
-4.5 m			5646*	5073							4312*	3441	3.82		

With 4.60 m boom, 3.00 m dipper, 600 mm shoes and bucket

Reach	1.5	m	3 m		4.5 m		6 m		7.5 m		m	ax	Max reach
Height	front	360°	front	360°	front	360°	front	360°	front	360°	front	360°	m
6 m							2005*				1734*		6.17
4.5 m					242	22*	2617*	2009			1590*	1460	7.06
3 m			38	3812* 3		3123	2689	1913	1695*	1257	1624*	1248	7.53
1.5 m			6687*	5423	4093	2846	2554	1788	1753	1205	1686	1155	7.67
0			7720	4898	3839	2616	2435	1675	1703	1158	1699	1155	7.51
-1.5 m	48	41*	7511	4724	3704	2493	2364	1609			1858	1261	7.03
-3 m	7363*		7534	4743	3687	2478	2370	1615			2285	1558	6.15
-4.5 m	109	72*	6840*	4920	3810	2589					3619	2468	4.65

- 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.

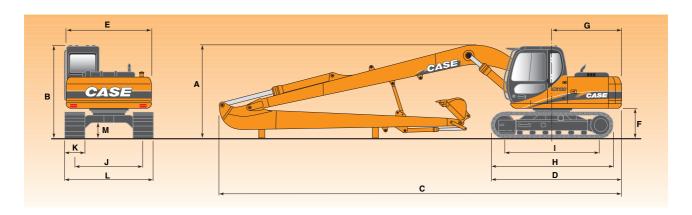
 Capacities that are marked with an asterisk are hydraulic limited

 If the machine is equipped with a quick coupler, subtract the weight of the quick coupler from the load shown in the tables to calculate the real lifting capacity.





GENERAL DIMENSIONS - LONG REACHWith 7.40 m monobloc boom and 5.30 dipper



A	Overall height	2.74 m
В	Cab height	2.74 m
C	Overall length	10.38 m
D	Overall length (wo/attachment)	4.07 m
E	Width of upperstructure	2.53 m
F	Upperstructure ground clearance	0.88 m
G	Swing (rear end) radius	2.19 m

H Track overall length	3.76 m
I Centre/centre (idler to sprocket)	3.04 m
J Track gauge	1.99 m
K Track shoes width (std)	700 mm
L Track overall width Shoes 700 mm	2.69 m
M Ground clearance	0.44 m



WEIGHT AND GROUND PRESSURE

With 7.40 m monobloc boom - 5.30 m dipper - bucket - operator and full fuel tank	Weight (kg)	Ground pressure (bar)
Shoes 700 mm	14600	0.31



BUCKETS for 7.40 m monobloc boom and 5.30 m dipper

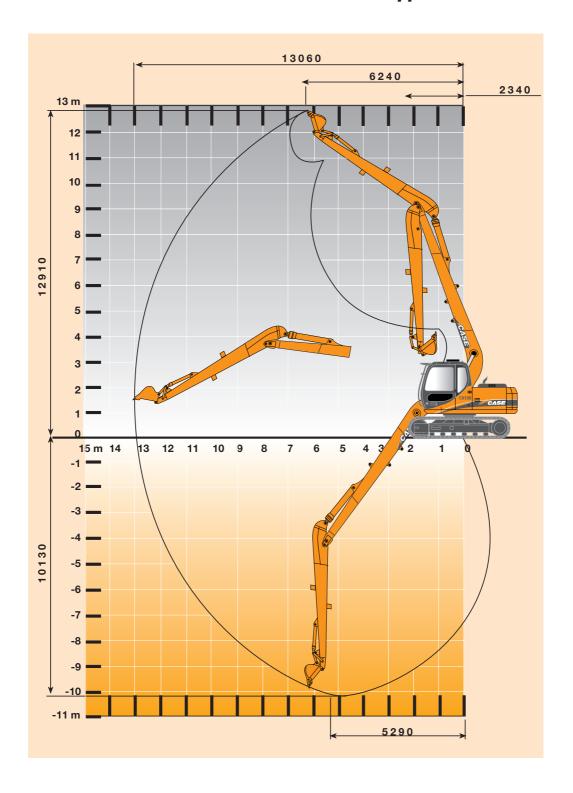
General purpose

General purpos	<u> </u>		
SAE capacity	Litres	240	310
Width	mm	600	750
Weight	kg	170	200





PERFORMANCE DATA - LONG REACHWith 7.40 m monobloc boom and 5.30 m dipper



Digging force	2340	daN
Breakout force	4000	daN



LIFTING CAPACITY - LONG REACH

CX130 Long Reach with 7.40 m boom, 5.30 m dipper, 700 mm shoes and bucket

Max reach	ш	8.23	10.04	10.88	11.33	11.68	11.93	12.1	12.18	12.18	12.1	11.93	11.67	11.31	10.86	10.28	9.57	8.67	7.55	6.05
Max	360°	1051*	583*	384*	382*	387*	398*	416*	441*	474*	516*	571*	602	632	682	* 758	873	1766* 1053	1832* 1361	1879*
	fron	1	·ν	.c		·c		4	4		·ν	'n	642*	737*	*998	1051*	1338*	1766	1832	18
12 m	360°							521*	636	614	594									
	o fron								637*	682*	637*									
11 m	t 360°				646*	* 877	* 851	* 820	787	* 753	721	695	675	999						
	front					902*	1104*	5 1282	1345	1309*	1276	1248	1227	1217						
10 m	t 360°		611*	*626	* 1130	3* 1100	* 1061	1374* 1016 1282*	4 62	916 (875	3 837	807	188	781	, 790				
	front				1156*	1223*	1292*	7 1374	1462*	1550	3 1503	1463	1432	1411	1404	1414				
m 6	t 360°		1058*	1120*	1171*	1249*	1347* 1320	1573* 1564 1460* 1257	* 1190	1124	5 1063	1011	970	3 942	, 928	5 931) 952			
	front						1347	i 1460	1580*	1700*	1786	1731	1688	1658	1644	1646	1670			
8 m	front 360°	1057*	1056*	1097*	1173*	1282*	1418*	* 1564	1738* 1471	1900* 1380	2049* 1297	1228	1175	1138	1119	7 1118	1137	* 1179		
		Ä					,	1573				2075	2018	1979	1959	1957	1977	5015		
7 m	360°			1063*	1171*	1322*	1511*	1727*	1955* 1840	2178* 1713	2378* 1600	1508	1440	. 1395	1373	1372	1392	2406* 1435	1511	
	front					<u> </u>			1955			2533	2459	2411	2386	2385	2407		2062*	
9 m	360°					1363*	1631*	1941*	2269*	2582* 2162	2853* 2005	3064* 1885	1801	1750	1728	1730	1757	2872* 1809	2505* 1892	1900*
	front							15	.2				3084	3028	3003	3006	3036			15
5 m	front 360°						1789*	2257*	2752*	3210* 2805	3581* 2583	3845* 2427	2330	* 2279	2264	* 2278	2319	3467* 2388	3032* 2489	2374*
	front						17	72	27		3581*	3845	4003*	3993*	3976*	3449* 3216 3949* 2278	3761*	3467		23
4 m	front 360°							2762*	3576*	4229* 3808	2828*	2520*	2555*	2753*	3056*	3216	3285	3384	3720* 3521	2923*
4	front							27	35	4229*	28	25	25	27	30	3449	3941*	4280*	3720*	25
3 m	front 360°							3695*	3302*	1575*	1359*	1460*	1674*	1947*	2264*	2622*	3027*	3489*	4024*	
								36	33	15	13	14	16	19	22	26	30	34	40	
2 m	front 360°							*9265			*559	934*	1218*	1512*	1819*	2145*	2495*	2870*	3268*	
- 74	front							55			9	6	11	15	15	21	2	77	3.	
Reach	Height	m 6	8 m	7 m	9 m	5 m	4 m	3 m	2 m	1 m	0 m	-1 m	-2 m	-3 m	4 m	-5 m	-6 m	-7 m	-8 m	ш 6-

- 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
- If the machine is equipped with a quick coupler, subtract the weight of the quick coupler from the load shown in the tables to calculate the real lifting capacity.

STANDARD EQUIPMENT

Hydraulic control

- 4 working modes (3 manual + 1 auto)
- 2 travel speeds
- Swing brake control
- Load-holding valves on boom and dipper
- Power control automatic powerboost
- Hydraulic control lever locking, lever position adjustment
- Auxiliary circuit control valve section
- High performance "Ultra Clean" filtration system (1 μ)
- Automatic speed change

Engine control

- Engines to Tier 2 standard
- Calculator on injection pump
- Automatic / manual engine return to idle
- Fuel level check
- Emergency stop
- Automatic engine pre-heating

System Monitor, with 14 language display

- Messages (Function, safety, etc.)
- Working modes (H-S-L and auto)
- Operating modes (travel mode, swing locking, etc.)
- Audible warning device
- Digital clock
- Water temperature

- Hydraulic oil temperature
- · Diagnostic system

Electrical system

- Leak-proof connectors
- Double horn

Lighting

- 1 working light on the fuel tank
- 1 working light on the boom
- 1 working light on the cab

Operator environment

- Modern cab, 1 metre wide
- · Safety glass
- Suspended cab (6 mounting points with rubber/fluid shock absorbing mountings)
- Windscreen with lockable opening
- "LCD" display
- Water and dust-proof membrane type touch controls
- Windscreen washer and wiper
- Adjustable heater
- Floor mat
- Sun-visor
- Rear-view mirror and safety mirrors
- Anti-theft device

Operator seat

- Multi-adjustment, low frequency suspension with springs and dual-acting shock absorber
- Reel-type safety belt

OPTIONS

- Auxiliary hydraulic circuit Possible options and combinations:
 - Hammer circuit with pedal control
 - 2nd auxiliary circuit for clamshell rotation, etc.
 - Dual-acting circuit (shears type)
 - Multi-purpose circuit (hammer or shears)
 - Multi-purpose circuit + 2nd circuit
- MULTI-FIT quick coupler
- Rubber tracks
- Dozer blade
- Self-adjusting air conditioning

Standard and optional equipment can vary from country to country



SERVICE & SUPPORT

THE CASE DEALER YOUR PROFESSIONAL PARTNER

World-class construction equipment is just the start with Case. Your local Case dealer is a total solutions provider. Look to Case dealers to help find the right size machine, attachments and options to meet the demands of your job.

Case dealers help you maximise machine uptime - and profitability. That means you can focus on the job, knowing your Case dealer is never far away. Case dealers stand behind the equipment they sell, with skilled service technicians fully equipped to resolve your maintenance and repair issues and, the support of a global parts network, recognised as second to none in the industry. But it doesn't stop there. Through CNH Capital, your local Case dealer offers flexible financing options, leasing packages and insurance services to protect your investment.

When you need more than just equipment, Case dealers deliver. More.







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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CNH UK Ltd.

Conforms to directive 98/37/CE



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