CASE

CX SERIES HYDRAULIC EXCAVATORS

CX130

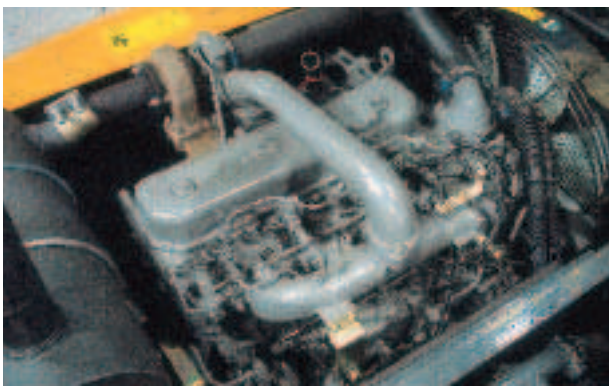
PROFESSIONAL PARTNER

ENGINE

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 ..... 4329 cm³
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 output ..... 2 x 123 l/min
Max safety valve pressure
- Attachment / **Power Boost** ..... 343/**363** bar
- Upperstructure swing ..... 280 bar
- Travel ..... 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 speed ..... 13.4 rpm
Swing torque ..... 3300 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 kph
Low travel speed ..... 3.6 kph
Speed change is controlled from the instrument panel.
Gradeability ..... 70% (35°)
Tractive force ..... 10000 daN

ELECTRICAL SYSTEM

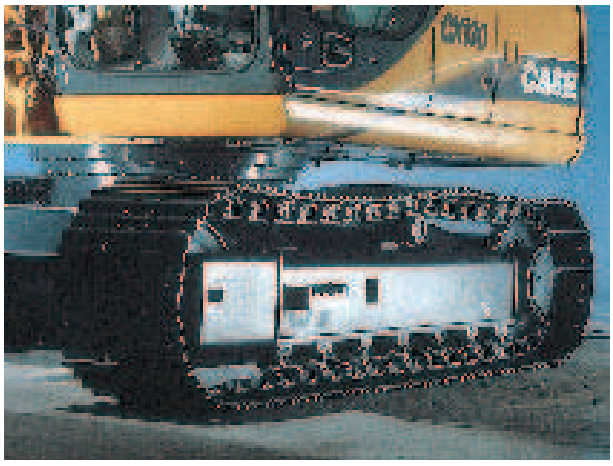
Circuit..... 24 volts
Batteries :..... 2 x 12 v - 96 A/h
Circuit equipped with water-proof connectors
Alternator ..... 24 v - 40 A/h

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



CAB

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 levers.
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:

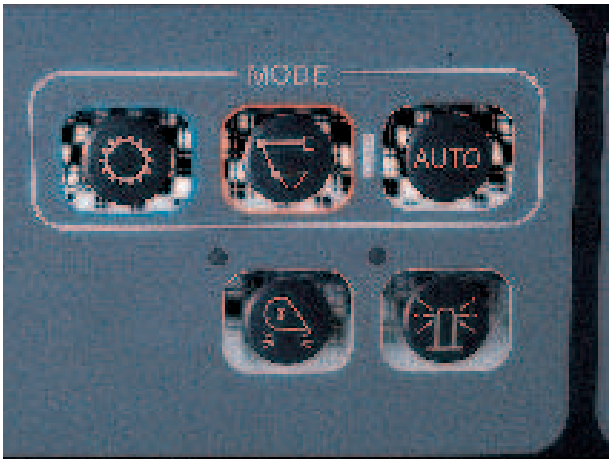
H mode (Heavy) uses all the machine's available power for tough jobs, providing optimum efficiency, high working speed and maximum force.

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.

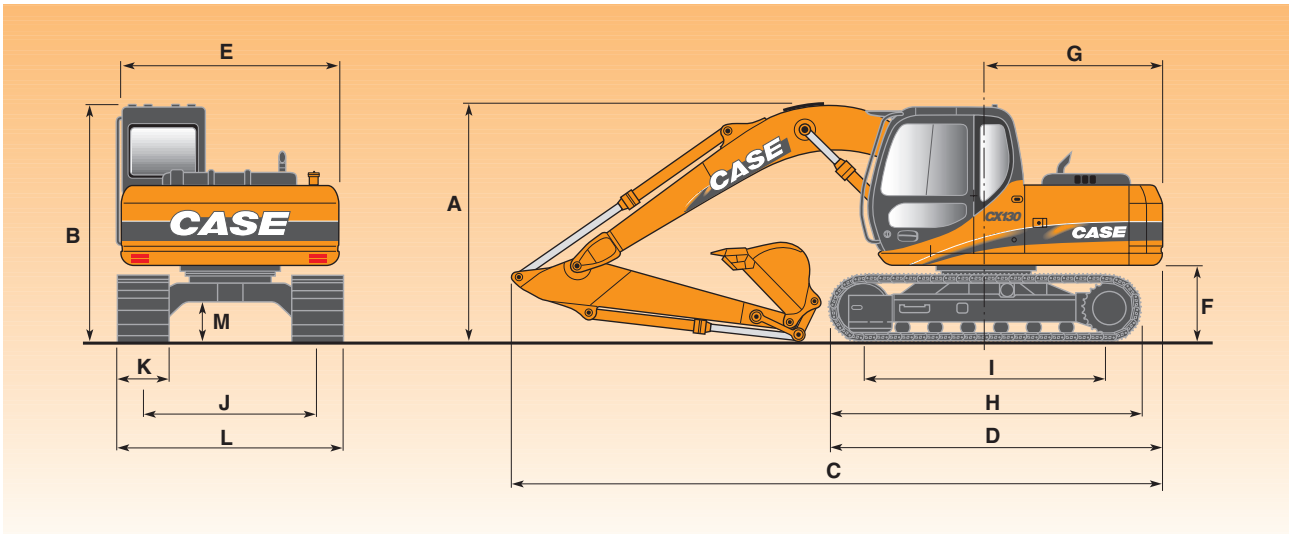
ATTACHMENT

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).

CIRCUIT AND COMPONENT CAPACITIES

Hydraulic reservoir	73 l
Hydraulic system	123 l
Travel reduction gear (per side)	3 l
Swing reduction gear	2.2 l
Engine (including filter change)	15 l
Fuel tank	250 l
Engine coolant circuit	17.7 l

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 to sprocket)		2.78 m
J	Track gauge		1.99 m
K	Track shoes width (std)		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 - bucket - operator and full fuel tank	Weight (kg)	Ground 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

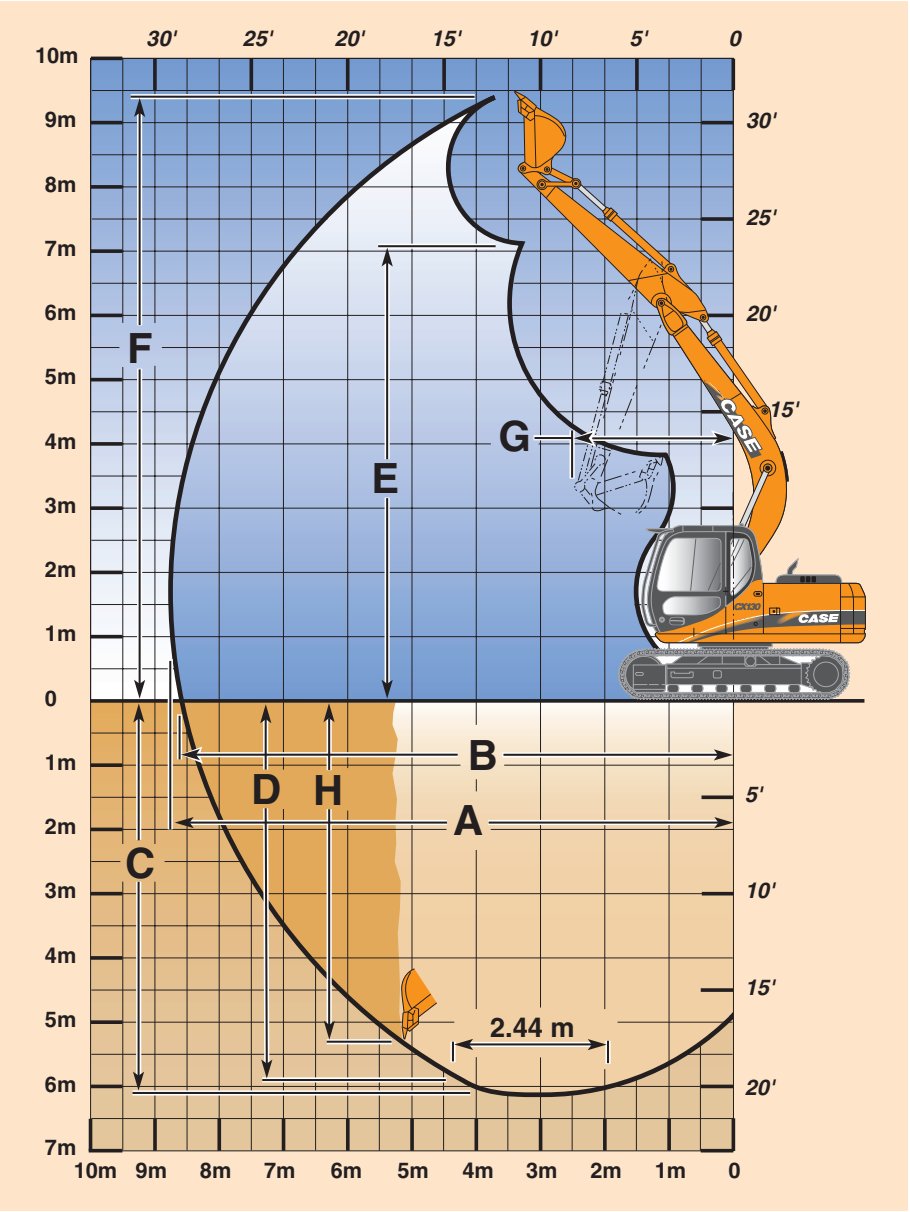
General purpose

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

SAE capacity	Litres						620	700	
Width	mm						1000	1100	
Weight	kg						450	485	

PERFORMANCE DATA
With 4.60 m monobloc boom



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

LIFTING CAPACITY

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		max		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			**5686***		**4106***	**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	5938*		7554	4764	3716	2506	2396	1641			2329	1596	6.12
-3 m	**9637***		**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

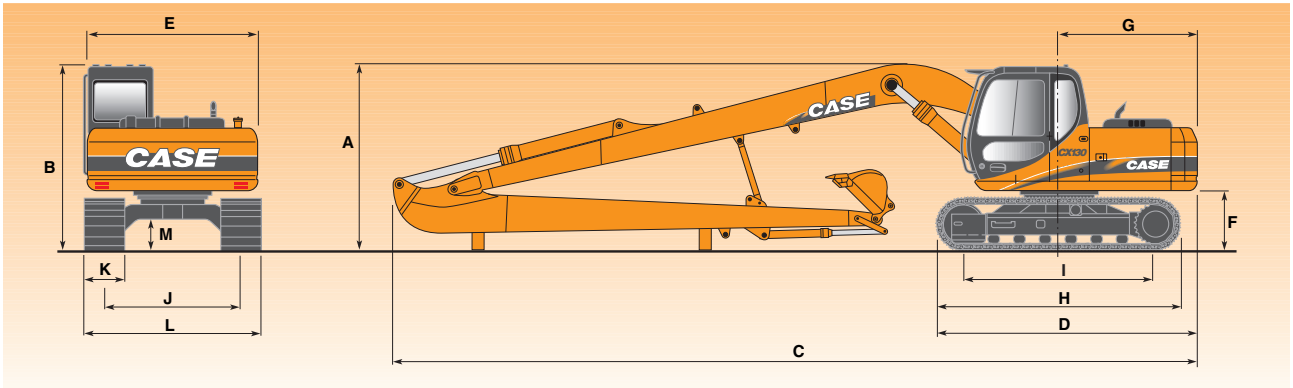
Reach	1.5 m		3 m		4.5 m		6 m		7.5 m		max		Max reach
Height	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*m*
6 m					**2668***						**2103***		**5.39**
4.5 m					2943*		2713*	1941			1490*		6.55
3 m			**4930***		**3768***	**3019**	**2629**	**1857**			**1519***	**1377**	**7.05**
1.5 m			7650*	5191	4001	2763	2511	1747			1650*	1273	7.20
0	**2661***		**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	**8359***		**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		max		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					2422*		2617*	2009			1590*	1460	7.06
3 m			**3812***		**3263***	**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	4841*		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	10972*		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 REACH
With 7.40 m monobloc boom and 5.30 dipper



A	Overall height	2.74 m	
B	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

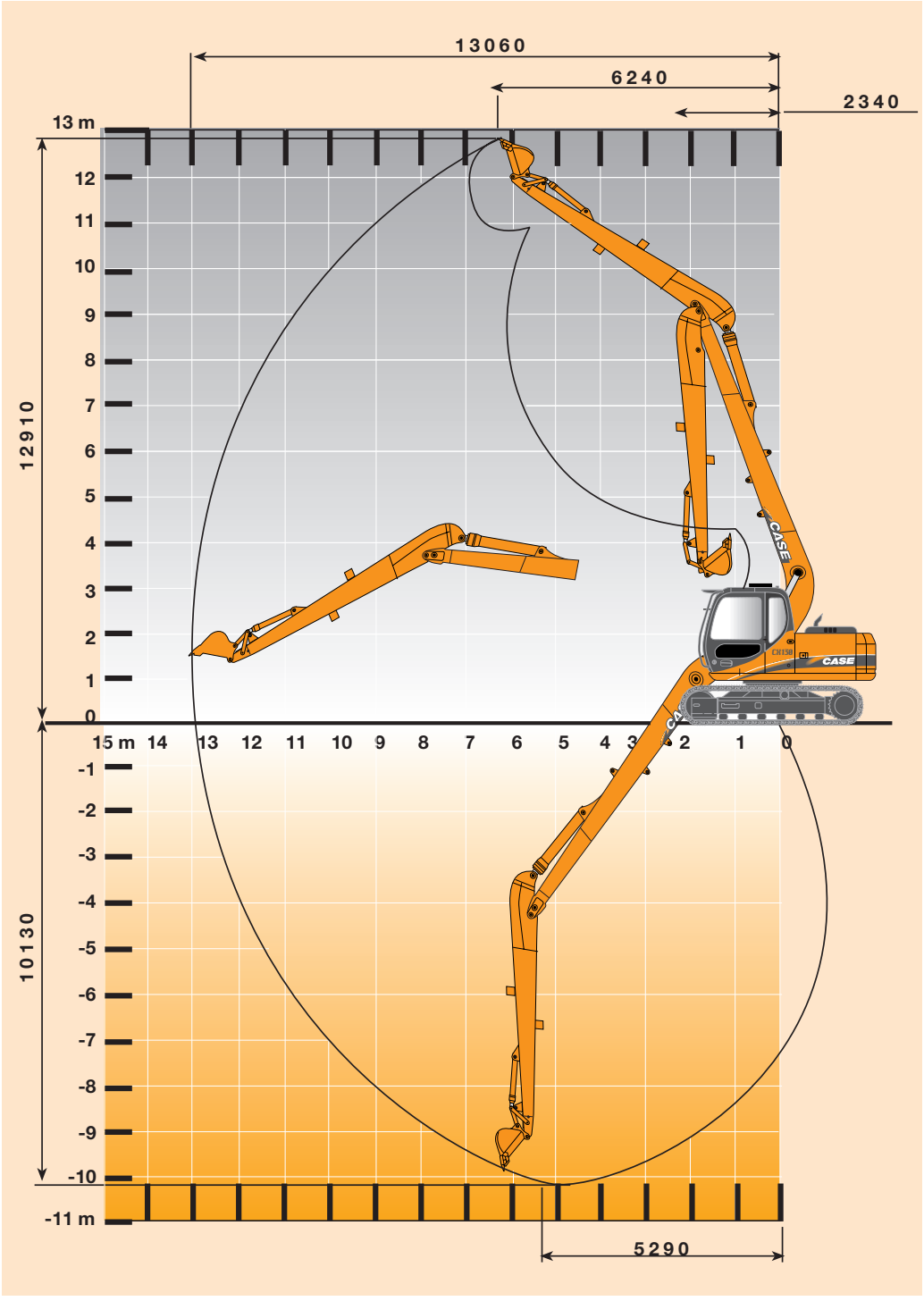
With 7.40 m monobloc boom - 5.30 m dipper - bucket - operator and full fuel tank	Weight (kg)	Ground pressure (bar)
Shoes 700 mm	14600	0.31

BUCKETS for 7.40 m monobloc boom and 5.30 m dipper

General purpose

SAE capacity	Litres	240	310
Width	mm	600	750
Weight	kg	170	200

PERFORMANCE DATA - LONG REACH
With 7.40 m monobloc boom and 5.30 m dipper



Digging force..... 2340 daN
Breakout force..... 4000 daN

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

Reach	2 m		3 m		4 m		5 m		6 m		7 m		8 m		9 m		10 m		11 m		12 m		Max		Max reach
Height	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*front*	*360°*	*fron*	*360°*	*fron*	*360°*	*m*
9 m													**1057***										**1051***		**8.23**
8 m													1056*		1058*		611*						583*		10.04
7 m											**1063***		**1097***		**1120***		**929***						**384***		**10.88**
6 m											1171*		1173*		1171*		1156*	1130	646*				382*		11.33
5 m									**1363***		**1322***		**1282***		**1249***		**1223***	**1100**	**902***	**877**			**387***		**11.68**
4 m							1789*		1631*		1511*		1418*		1347*	1320	1292*	1061	1104*	851			398*		11.93
3 m	**5976***		**3695***		**2762***		**2257***		**1941***		**1727***		**1573***	**1564**	**1460***	**1257**	**1374***	**1016**	**1282***	**820**	**521***		**416***		**12.1**
2 m			3302*		3576*		2752*		2269*		1955*	1840	1738*	1471	1580*	1190	1462*	967	1345	787	637*	636	441*		12.18
1 m			**1575***		**4229***	**3808**	**3210***	**2805**	**2582***	**2162**	**2178***	**1713**	**1900***	**1380**	**1700***	**1124**	**1550**	**919**	**1309***	**753**	**682***	**614**	**474***		**12.18**
0 m	655*		1359*		2828*		3581*	2583	2853*	2005	2378*	1600	2049*	1297	1786	1063	1503	875	1276	721	637*	594	516*		12.1
-1 m	**934***		**1460***		**2520***		**3845***	**2427**	**3064***	**1885**	**2533**	**1508**	**2075**	**1228**	**1731**	**1011**	**1463**	**837**	**1248**	**695**			**571***		**11.93**
-2 m	1218*		1674*		2555*		4003*	2330	3084	1801	2459	1440	2018	1175	1688	970	1432	807	1227	675			642*	602	11.67
-3 m	**1512***		**1947***		**2753***		**3993***	**2279**	**3028**	**1750**	**2411**	**1395**	**1979**	**1138**	**1658**	**942**	**1411**	**788**	**1217**	**665**			**737***	**632**	**11.31**
-4 m	1819*		2264*		3056*		3976*	2264	3003	1728	2386	1373	1959	1119	1644	928	1404	781					866*	682	10.86
-5 m	**2145***		**2622***		**3449***	**3216**	**3949***	**2278**	**3006**	**1730**	**2385**	**1372**	**1957**	**1118**	**1646**	**931**	**1414**	**790**					**1051***	**758**	**10.28**
-6 m	2495*		3027*		3941*	3285	3761*	2319	3036	1757	2407	1392	1977	1137	1670	952							1338*	873	9.57
-7 m	**2870***		**3489***		**4280***	**3384**	**3467***	**2388**	**2872***	**1809**	**2406***	**1435**	**2015***	**1179**									**1766***	**1053**	**8.67**
-8 m	3268*		4024*		3720*	3521	3032*	2489	2505*	1892	2062*	1511											1832*	1361	7.55
-9 m					**2923***		**2374***		**1900***														**1879***		**6.05**

- 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

ALL YOU NEED IS CASE

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.

Conforms to directive 98/37/CE CE

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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.

CASE
PROFESSIONAL PARTNER

CNH **CASE IS A BRAND OF CNH.**
CNH: THE TOTAL SOLUTIONS CHOICE FOR YOUR SPECIFIC BUSINESS NEEDS.

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