B-SERIES HYDRAULIC EXCAVATORS
CX130B

CASE
CONSTRUCTION

MAXIMUM POWER AND COMFORT

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MAXIMUM POWER AND COMFORT

POWER AND SPEED

Powered by a Tier III common rail diesel engine, the CX130B utilises an advanced hydraulic system with three working modes to match power and speed to every application. The excavator benefits from increased digging forces, slew speeds and high swing torque resulting in reduced cycle times. Increased stability results in a wider range of applications, adding to the versatility of this highly productive machine.
Increased fuel efficiency and high torque at low engine revs result in reduced operating costs and improved cost per tonne performance. Low maintenance and maximum fuel efficiency offer high performance with low ownership costs.
Increased productivity.
Maximum profitability.

ROBUST DESIGN

Built to perform, the CX130B retains the Case excavator family appearance with strong lines and compact dimensions. The spacious B series cab provides exceptional levels of comfort and low noise, reducing operator fatigue and boosting productivity.
Exhaust gas recirculation and common rail fuel injection ensure low emissions and reduced fuel consumption, despite increased output and high torque. High productivity with lo w fuel use.
Operator acceptance.
Environmental responsibility.

SAFETY FIRST

As with all B series machines, the CX130B's cab has full height glazing for improved visibility all round, increasing safety on site. A single side window provides an unrestricted view to the right side of the machine. The B series cab has a structure that is three times more rigid than a conventional frame, boosting safety for the operator and contributing to reduced internal noise levels. An easy to use operating console, smooth responsive servo levers and comfort seating reduce operator fatigue, improving productivity and site safety. **Total visibility. Improved operation.**

OPERATOR COMFORT

The B series cab has up to 60 mm of additional leg and foot space, providing comfort for all sizes of operators. A reclining seat and air conditioning with multiple vents ensure that the operator can remain comfortable in the machine. The operator benefits from a hot/cold storage box, a cup holder and a mobile phone pocket, along with a large area behind the seat for additional storage.
The operating lever consoles have four positions with auto return on the left hand side, ensuring optimum comfort for all operators. Viscous cab mountings and lower engine noise levels reduce vibration and noise within the cab and outside the machine. **Reduced fatigue. Increased productivity.**

BUILT TO WORK

A single high performance synthetic fibre hydraulic filter protects the entire hydraulic system. Separate filters are no longer required when the machine is used with a hydraulic breaker. The CX130B is designed for exceptional reliability and durability. A strong upper structure and revised forged bracket boom and dipper design ensure long service life with reduced maintenance. Resin shims on the boom and dipper reduce wear, and new undercarriage components have been optimised to keep the machine operating. **Robust design. Case durability.**

EXTENDED OPERATION

The Case CX130B is equipped with a larger fuel tank complete with high flow auto-stop refuelling pump. This reduces downtime for refuelling and ensures environmental safety as there is no fuel spillage onto sensitive ground. Extended Maintenance System (EMS) bushes provide up to 1000 hour greasing intervals on the majority of pins and low friction side shims on the boom and dipper further reduce maintenance requirements. All filters can be easily reached from ground level, for safe and efficient service and maintenance, reducing downtime and increasing productivity. High performance. **Low ownership costs.**

B-SERIES
HYDRAULIC EXCAVATORS

ENGINE

An electronically-controlled common rail engine that meets Tier III emissions regulations powers the CX130B. The advanced design incorporates a fuel cooler to improve control of the volume and timing of injection, while exhaust gas recirculation contributes to reduced emissions. High torque output at low engine speeds, with a large capacity hydraulically driven fan and low sound exhaust muffler, contribute to lower noise levels inside the cab and outside the machine. Auto and one-touch idle speed settings ensure maximum efficiency in all operating conditions. High engine output with reduced fuel consumption, contributes to maximum productivity for the customer.

HYDRAULICS

The CX130B uses a new hydraulic system incorporating highly efficient variable piston pumps with reduced tolerances, that contribute to improved fuel economy. A variable control pump torque system maintains the correct engine output to match hydraulic demand, ensuring maximum productivity and smooth reaction to operator input. A synthetic fibre hydraulic filter is standard, protecting valuable components and prolonging hydraulic oil service life up to 5000 hours. Additional hydraulic filters are no longer necessary when operating with attachments, reducing cost and saving installation time. Hose burst control valves are now located behind the boom cylinders for greater protection and improved operator visibility to the working area.

CONSOLE ENGINE THROTTLE

Mode selection for the hydraulic system is intuitively set through an advanced engine throttle control, which is positioned within easy reach of the operator in the fully adjustable right hand console. All switches are grouped in a central layout and short servo lever joysticks make the CX130B a comfortable machine to operate. The display console has a luminosity sensor to ensure that it is easy to read whatever the ambient light conditions. Operators can store up to 10 auxiliary hydraulic flow settings in the machine's advanced hydraulic control, making it possible to use up to 10 attachments with no manual adjustment to the machine's hydraulic valves. Changing from single acting to double acting hydraulics is also possible from inside the cab. This reduces downtime for attachment changeover, increasing productivity.

OPERATOR'S CAB

The Case B series cab has 60 % more glass than previous models, including a single piece window on the right hand side, offering improved visibility to all sides. Despite reprofiled slim pillars, the cab is three times more rigid, for increased operator safety. Combined with viscous cab mounts and reduced engine noise, this results in best-in-class noise and vibration levels. All operators can find a comfortable position, thanks to adjustable consoles, longer seat slides, a 60 mm increase in foot space, a fully reclining seat and air conditioning with nine outlet vents. The B series cab includes a clock, a large storage box behind the driver's seat, bottle and can holders, a mobile phone holder and a cool box that uses the air conditioning system to regulate internal temperature.

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HYDRAULIC EXCAVATORS

MAINTENANCE

Case CXB excavators are easy to service with ground level access to all filters and maintenance points. The filters are remote mounted in a centralised position, providing easy access, and the larger fuel tank has both a drain valve and a removable service plate, to allow for easy cleaning in the case of fuel contamination. An engine oil drainer cuts the risk of spillage during servicing, protecting the environment. The high-flow electric refuelling pump is twice as fast as previous models and the auto-stop function makes refilling easier and faster. The CX130B scores the lowest time in SAE Maintenance tests, reducing downtime and cutting operating costs.

UNDERCARRIAGE

CASE undercarriage design continues to ensure long component life and low operating costs. Drive sprockets are heat treated for extended operation. The machine has robust track guides and improved track links, with new M shaped seals and increased pin hardness, for maximum durability and reliability. The track rollers have an O-ring design that prevents the ingress of dirt and dust, and a revised profile for reduced wear.

IMPROVED PIN AND BUSHING LIFE

Previously only available on machines above the CX330, Extended Maintenance Bushings (EMS) are now standard equipment on all Case CXB series excavators. These low maintenance bushings provide up to 1,000 hour greasing intervals, greatly reducing daily and weekly maintenance for the operator, and increasing productivity. Anti-friction resin shims in the boom foot and head reduce noise and free play, increasing durability and reliability for the customer.

EMS chrome plated pins with brass bushing

Antifriction shims


CASE
CX130B

B-SERIES
HYDRAULIC EXCAVATORS
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ENGINE

Make	ISUZU
Type	AJ-4JJ1X
Common rail, turbo, intercooler, fuel cooler	
EGR (Exhaust Gas Recirculator)	Yes
Direct injection	Electronically controlled
Number of cylinders	4
Bore - Stroke	95.4 x 104.9 mm
Cubic capacity	2999 cc
Horsepower EEC80/1269	70.9 kW/96 hp @ 2000 rpm
Maximum Torque	359 Nm @ 1600 rpm

HYDRAULIC SYSTEM

Max output	2 x 129 l/min @ 2000 rpm
2 axial piston, variable flow pumps	Yes
Attachment/Power Boost	343/363 bar
Upperstructure swing	294 bar
Travel	343 bar
Oil filtration	6 micron
Type of oil filter	Synthetic fiber
Super fine High catch	

SWING

Max upperstructure swing speed	14.3 rpm
Swing torque	33 kN-m

TRAVEL

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

Max travel speed	5.6 km/h
Low travel speed	3.4 km/h
Speed change is controlled from the instrument panel	
Automatic downshifting	Yes
Gradeability	70% (35°)
Tractive force	11 500 daN

ELECTRICAL SYSTEM

Circuit	24 V
Batteries	2 x 12 V - 72 A/h
Circuit equipped with water-proof connectors	Yes
Alternator	24 V - 50 Amp

UNDERCARRIAGE

Upper rollers	1
Lower rollers	7
Number of track pads	43
Type of shoes	Triple grouser
Track pad width	500/600/700 mm

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank	260 l
Hydraulic reservoir	82 l
Hydraulic system	157 l
Travel reduction gear (per side)	2.1 l
Swing reduction gear	2.2 l
Engine oil (including filter change)	17 l
Cooling system	14.6 l

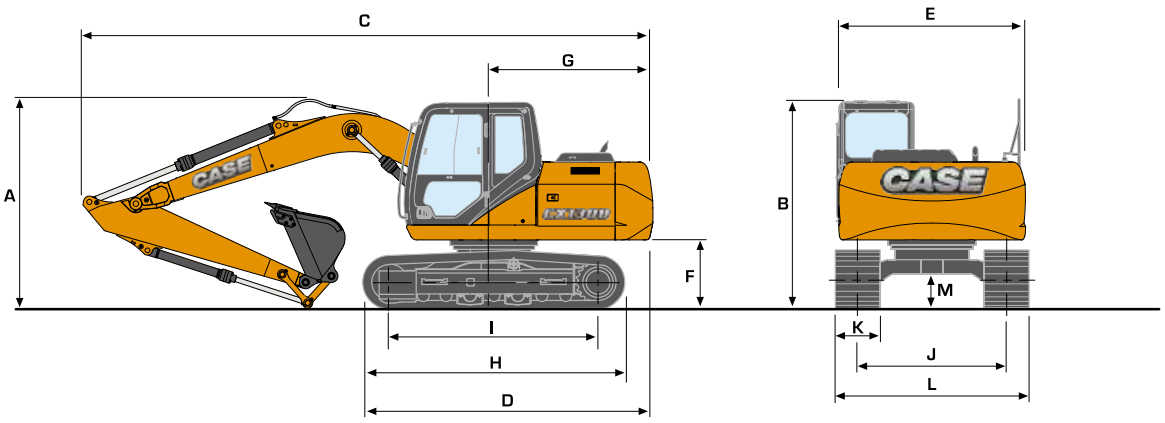
BUCKETS

Bucket	Capacity (m^3) (ISO/SEA/heaped)	Width (mm) with side cutter	Width (mm) without side cutter	Weight (kg)	Number of teeth	Combination MONO BOOM 2,1 m arm	Combination MONO BOOM 2.5 m arm	Combination MONO BOOM 3.0 m arm
GP	0.37	772	698	339	4	◎	◎	◎
GP	0.45	907	833	366	4	◎	◎	●
GP	0.50	972	898	378	5	◎	●	○
GP	0.55	1057	983	410	5	●	○	×
GP	0.65	1192	1118	444	5	○	△	×

● Suitable for materials with density up to 2000 kg/m^3 or less
◎ Standard bucket (Suitable for materials with density up to 1800 kg/m^3 or less
○ Suitable for materials with density up to 1,600kg/m^3 or less)
△ Suitable for materials with density up to 1,200kg/m^3 or less)
GP General Purpose Bucket

GENERAL DIMENSIONS

with 4.63 m Standard Monoboom



DIPPER LENGTH			CX130B Mono STD		
			2.10	2.50	3.00
A	Overall height (with attachment)	m	2.82	2.82	2.82
B	Cab height	m	2.79	2.79	2.79
C	Overall lenght (with attachment)	m	7.62	7.64	7.61
	Overall lenght (with attachment) LC-undercarriage	m	-	-	-
D	Overall lenght (without attachment)	m	3.58	3.58	3.58
E	Width of upperstructure	m	2.54	2.54	2.54
F	Upperstructure ground clearance	m	0.89	0.89	0.89
G	Swing radius (rear end)	m	2.13	2.13	2.13
H	Track overall lenght	m	3.50	3.50	3.50
I	Centre idler to centre sprocket	m	2.79	2.79	2.79
J	Track gauge	m	1.99	1.99	1.99
K	Track shoe width standard	m	600	600	600
L	Track overall width - 500 mm shoes		2.49	2.49	2.49
	- 600 mm shoes		2.59	2.59	2.59
	- 700 mm shoes		2.69	2.69	2.69
N	Ground clearance		0.44	0.44	0.44

WEIGHT AND GROUND PRESSURE

Weight = kg Ground pressure = bar	Mono STD	
	W	G.P
shoes 500 mm steel	12500	0.40
shoes 600 mm steel	12700	0.34
shoes 700 mm steel	13000	0.30

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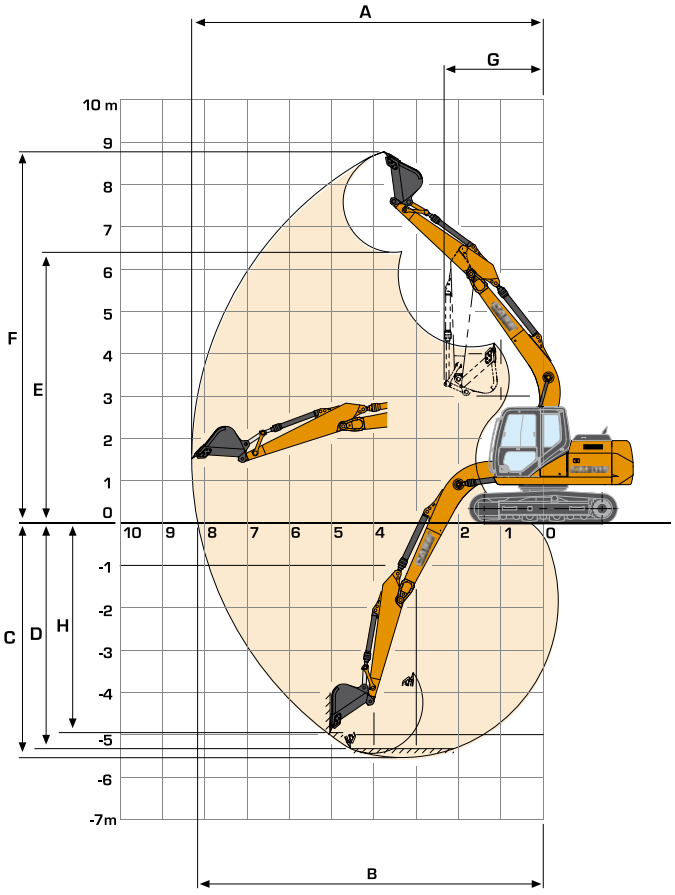
PERFORMANCE DATA

with 4.63 m Standard Monoboom



DIPPER LENGTH			CX130B Mono STD		
			2.50	3.01	2.11
A	Maximum digging reach	m	8.31	8.77	7.96
B	Maximum digging reach at ground level	m	8.17	8.64	7.81
C	Maximum digging depth	m	5.54	3.05	5.15
D	Digging depth - 2,44 m level bottom	m	5.33	5.87	4.91
E	Max dump height	m	6.39	6.68	6.17
F	Overall reach height	m	8.77	9.05	8.55
G	Minimum swing radius - attachment	m	2.34	2.66	2.36
H	Vertical straight wall dig depth	m	4.95	5.35	4.06
	Digging force - w/o Power Boost	daN	6200	5600	7000
	- with Power Boost	daN	6600	6000	7400
	Breakout force - w/o Power Boost	daN	9000	9000	9000
	- with Power Boost	daN	9500	9500	9500

LIFTING CAPACITY

with 4.63 m Standard Boom

Values are expressed in kilos

Front / 360°	REACH												
	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At max reach		m

2.50 m dipper 600 mm shoes and bucket of 0.50 m³ - 399 kg

6.0 m											2154*	2154*	5.38
4.5 m					2910 *	2910*	2749*	1981			1489*	1489*	6.58
3.0 m			4905 *	4905 *	3738 *	3084	2690	1891			1518*	1384	7.09
1.5 m			7680 *	5267	4089	2808	2563	1772			1647*	1275	7.24
0 m			7754	4862	3860	2601	2456	1672			1893	1281	7.08
-1.5 m	5243 *	5243 *	7658	4781	3762	2512	2407	1627			2105	1423	6.57
-3.0 m	8223 *	8223 *	7757	4864	3789	2536					2703	1836	5.61
-4.5 m			5698 *	5129							4259*	3376	3.89

2.11 m dipper 600 mm shoes and bucket of 0.55 m³ - 409 kg

6.0 m					3054 *	3054*					2932*	2932*	4.76
4.5 m					3281 *	3260	2511*	1952			1828*	1828*	6.20
3.0 m			5688 *	5688 *	4890 *	3037	2673	1877			1870*	1522	6.73
1.5 m			8079	5137	4053	2779	2559	1770			2038	1400	6.89
0 m			7735	4851	3858	2602	2468	1686			2074	1414	6.72
-1.5 m	5806 *	5806 *	7714	4833	3792	2542	2444	1663			2342	1596	6.18
-3.0 m	9455 *	9455 *	7672 *	4955	3854	2599					3139	2141	5.15

3.01 m dipper 600 mm shoes and bucket of 0.37 m³ - 339 kg

6.0 m							1912*	1912 *			1683*	1683*	6.14
4.5 m							2619*	2043			1427*	1427*	7.09
3.0 m					3279 *	3176	2742	1940	1610*	1269	1448*	1249	7.56
1.5 m			6792 *	5475	4166	2878	2599	1805	1781	1214	1553*	1153	7.70
0 m	2633 *	2633 *	7829	4943	3895	2632	2470	1686	1728	1163	1709	1150	7.55
-1.5 m	4676 *	4676 *	7619	4648	3754	2504	2396	1616			1866	1255	7.08
-3.0 m	7174 *	7174 *	7651	4775	3739	2491	2404	1623			2292	1550	6.20
-4.5 m	10701 *	10701 *	6761 *	4969	3873	2612					3610	2446	4.71

*Hydraulic pressure factor: 87.0 %. Without asterisk: Stability factor: 75.0 %

STANDARD

ENGINE CONTROL
Common rail engine Tier III European Standards
Electronic control of the injection system
Automatic engine pre-heating
Automatic/manual engine return to idle
Exhaust Gas Recirculator
Emergency stop
Fuel filter with water separator

HYDRAULIC CONTROL
Auto/Heavy/Super Power working modes
Pump torque variable control
Automatic Power boost control
Swing brake control
High performance “Super Fine” synthetic fiber hydraulic filter (high contamination catch)
2 travel speeds with auto down shifting

OPERATOR ENVIRONMENT
High visibilty cab with safety glass
Adjustable et retractable armrest console with position memory
Safety lever
Self adjusting Air conditioning and heating system
Cup holder
High visibility side monitor display with automatic brightness
Messages (function, temperature, safety, ...) on the display
Integrated diagnostic system
Working modes (Auto/Heavy/Super Power) combined with engine throttle
Anti-theft device
Hourmeter
Selectable auxiliary hydraulic flow pre-settings
RH front console with clock and cell phone holder
High capacity shock absorbers on cab with 4 points fluid mountings
Rain deflector
Windscreen with lockable opening
Windscreen washer and wiper
Removable lower front windscreen with storage location in cab
Glass cab roof window and slidding sun shade
ISO control pattern low effort & short joysticks
Adjustable sun visor
Washable cab floor mat
Rear view mirror and safety mirrors
Storage compartments
Integrated cool box
12 V and 24 V DC accessory sockets
Hammer/Shear change selected from the cab
Fore & aft adjustment of the whole seat & console
Electrical system
Water proof connectors
Double horn
Working light on the fuel tank

EQUIPMENT
EMS (Extended Maintenance System) pins and bushings as Standard(1000 hours lubrication interval for all, except buckets pins at 250 hours)
Low friction resin side shims on boom and dipper
Sealed and lubricated tracks
Large tool box
Pre-disposal for the optional cab protection

OPERATOR SEAT
Mechanical suspension seat
Weight adjustment
Height/fore & aft adjustment
Adjustable head rest
Adjustable seat back angle with Fully flat seat reclining
Adjustable arm rest
Safety belt

OPTIONS

Hammer hydraulic circuit
Hammer/shear hydraulic circuit
Track width (500 mm - 600 mm - 700 mm depending on the version)
Windscreen protection
Cab protection
GPS (Global Positioning System) by satelite
Electrical refuel pump with automatic stop
Hydraulic safety valves on boom and dipper
2 working lights on the cab
Working light on the boom
Bucket linkage (STD without hook, HD without hook or HD with hook)
Fully adjustable low frequency air suspension seat including double acting hydraulic damper

Standard and optional equipment shown can vary by country.