CX B-SERIES HYDRAULIC EXCAVATORS
CX210B UNDERCARRIAGE STD

CASE CONSTRUCTION

MAXIMUM POWER AND COMFORT

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EXPERTS FOR THE REAL WORLD
SINCE 1842

CX B-SERIES
HYDRAULIC EXCAVATORS

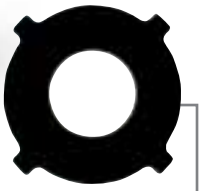
MAXIMUM EFFICIENCY HYDRAULICS

Three working modes tailor the machine to every application. Advanced Auto mode and Super Power mode offer increased digging forces, greater swing speeds and higher swing torque, resulting in faster cycle times and increased productivity. Fuel efficient Tier III common rail engine combined with high efficiency hydraulic system results in up to 20 % fuel saving. A high performance Super Fine synthetic fibre hydraulic filter is used to offer a high contamination catch, protecting components and ensuring long service life. **Reduced operating costs. Increased productivity.**

TOP PERFORMING ENGINE

New Tier III engine uses technology from much larger machines, to increase performance while reducing running costs. Low engine speed contributes to 5% lover noise output and 20% improvement in fuel consumption. Advanced control system makes the CX210B easier to drive, reducing fatigue and boosting production, while exhaust gas recirculation (EGR) and advanced common rail injection lower emissions, reducing the impact on the environment. **Minimal downtime. Maximum productivity.**

IMPROVED PIN AND BUSHING LIFE



Antifriction shims

EMS chrome plated pins with brass bushing

Extended Maintenance Bushings (EMS) now fitted as standard on all CXB machines. EMS bushings provide 1,000 hour greasing intervals, greatly reducing daily and weekly maintenance for the operator, though bucket link pins retain 250 hour greasing interval.
Anti-friction shims at boom foot and head reduce friction and noise in operation, while cutting free plat, increasing durability and reducing cost for the customer. **Maximum durability. Minimum costs.**

CONSOLE

Centralised layout of switches easy to use and simply readable in bright sunlight. Up to 10 auxiliary hydraulic flow settings are easily programmed into the memory. **Very simple but extremely effective**

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 use a revised design for less wear, and the O-ring design prevents the ingress of abrasive material, enhancing the Case reputation for class leading longevity. **Highest reliability. Lower operating costs.**

SPECIFICATIONS
CX210B STD

OPERATOR'S CAB

New cab has thinner pillars and 60% more glass, including one piece window on right hand side, for improved visibility all round. The main windscreen has a retractable sun visor and can be lifted fully into the roof space if required. The cab structure is 30% stronger, which with improved cab mounts results in lower noise and vibration for the operator. Longer seat slides, a fully reclining seat and foot space, and standard air conditioning with numerous outlet vents ensure that any operator can stay comfortable throughout the working day. A clock is included while storage is improved, with a large box behind the driver's seat, bottle and can holders and a cool/hot box that uses the air conditioning system to regulate internal temperature.
Low fatigue environment. Increased performance

MAINTENANCE

Centralised filters can be changed from ground level, reducing service time and improving uptime. Fuel tank has drain cock and removable maintenance plate, for cleaning in territories with lower grade fuels. Engine oil drainer helps reduce environmental impact as their is no spillage. All electrics are centralised in the cab, behind the seat, to maintain cleanliness and reduce ingress of dirt. High flow refuelling pump, has auto stop function to make refilling easier. **Easier maintenance, lower costs.**

CX B-SERIES
HYDRAULIC EXCAVATORS

ENGINE

Latest generation engine, meeting European requirements
for "Low exhaust emissions" Tier III in accordance with directive 97/68/EC

Make	ISUZU
Type	AI-4HK1X
Common rail, turbo, intercooler, fuel cooler, EGR (Exhaust Gas Recirculator)	Yes
Direct injection	Electronically controlled
Number of cylinders	4
Bore - Stroke	115 x 125 mm
Cubic capacity	5193 cc
NET Horsepower EEC80/1269	117 kW @ 1800 rpm
Maximum Torque	628 Nm @ 1500 rpm

HYDRAULIC SYSTEM

Max output	2 x 211 l/min @ 1800rpm
2 axial piston, variable flow pumps	Yes
Attachment/Power Boost	343/368 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	11.5 rpm
Swing torque	6400 daN

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	1892 daN

ELECTRICAL SYSTEM

Circuit	24 V
Batteries	2 x 12 V - 92 A/h
Circuit equipped with water-proof connectors	Yes
Alternator	24 V - 50 Amp

UNDERCARRIAGE

Upper rollers	2
Lower rollers	7
Number of track pads	46
Type of shoes	Triple grouser
Track pad width Standard	600 mm
Track guard	Front and 1 central

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank	410 l
Hydraulic reservoir	147 l
Hydraulic system	240 l
Travel reduction gear (per side)	5 l
Swing reduction gear	5 l
Engine (including filter change)	23.1 l
Engine cooling system	25.6 l

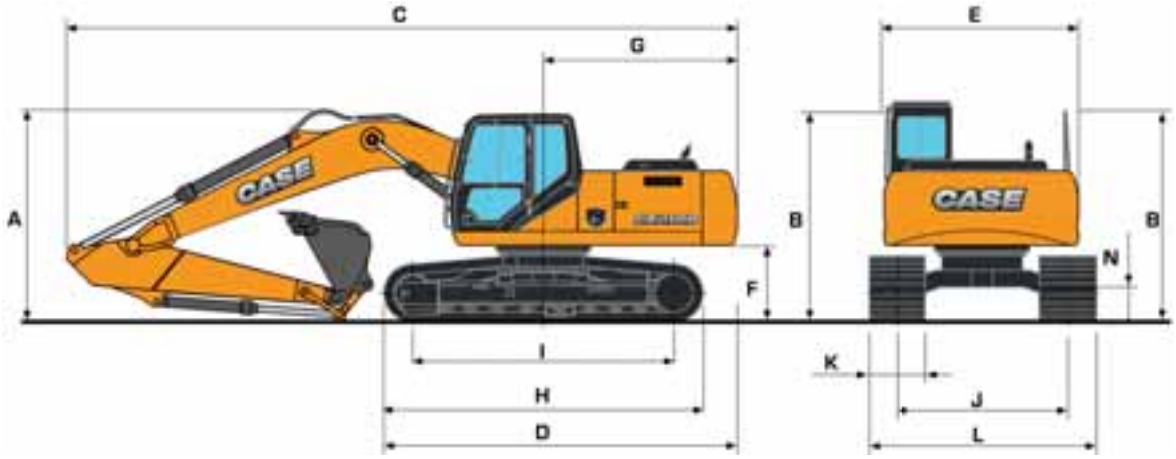
BUCKETS

Bucket	Capacity (m^3) (ISO/SEA/heaped)	Width (mm) with side cutter	Width (mm) without side cutter	Weight (kg)	Number of teeth	Combination 1.9 m arm	Combination 2.4 m arm	Combination 2.9 m arm
GP	0.5	830	730	514	4	●	●	●
GP	0.8	1130	1030	645	5	●	●	●
HD	0.8	1136	1036	726	5	●	●	●
GP	0.9	1230	1130	684	5	●	●	◎
GP	1.0	1360	1260	737	6	●	◎	◎
GP	1.1	1460	1360	771	6	◎	○	○

● 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
HD Heavy Duty Bucket

GENERAL DIMENSIONS



DIPPER LENGTH			1.90 m	2.40 m	2.94 m
A	Overall height (with attachment)	m	3.20	3.09	2.97
B	Height (cab/handrail)	m	2.94/2.96	2.94/2.96	2.94/2.96
C	Overall lenght (with attachment)	m	9.49	9.48	9.40
D	Overall lenght (without attachment)	m	4.81	4.81	4.81
E	Width of upperstructure	m	2.77	2.77	2.77
F	Upperstructure ground clearance	m	1.04	1.04	1.04
G	Swing radius (rear end)	m	2.72	2.72	2.72
H	Track overall lenght	m	4.18	4.18	4.18
I	Centre idler to centre sprocket	m	3.37	3.37	3.37
J	Track gauge	m	2.20	2.20	2.20
K	Track shoe width standard	m	600	600	600
L	Track overall width - 600mm shoes	mm	2.79	2.79	2.79
	- 700mm shoes	m	2.89	2.89	2.89
	- 800mm shoes	m	2.99	2.99	2.99
N	Ground clearance	m	0.46	0.46	0.46

WEIGHT AND GROUND PRESSURE

With 5.70 m Monoboom 2.40 m dipper 698 kg, 1 m^3 bucket operator and full fuel tank

	WEIGHT (KG)	GROUND PRESSURE (BAR)
shoes 600mm steel	20300	0.45
shoes 700mm steel	20700	0.40
shoes 800mm steel	21000	0.36

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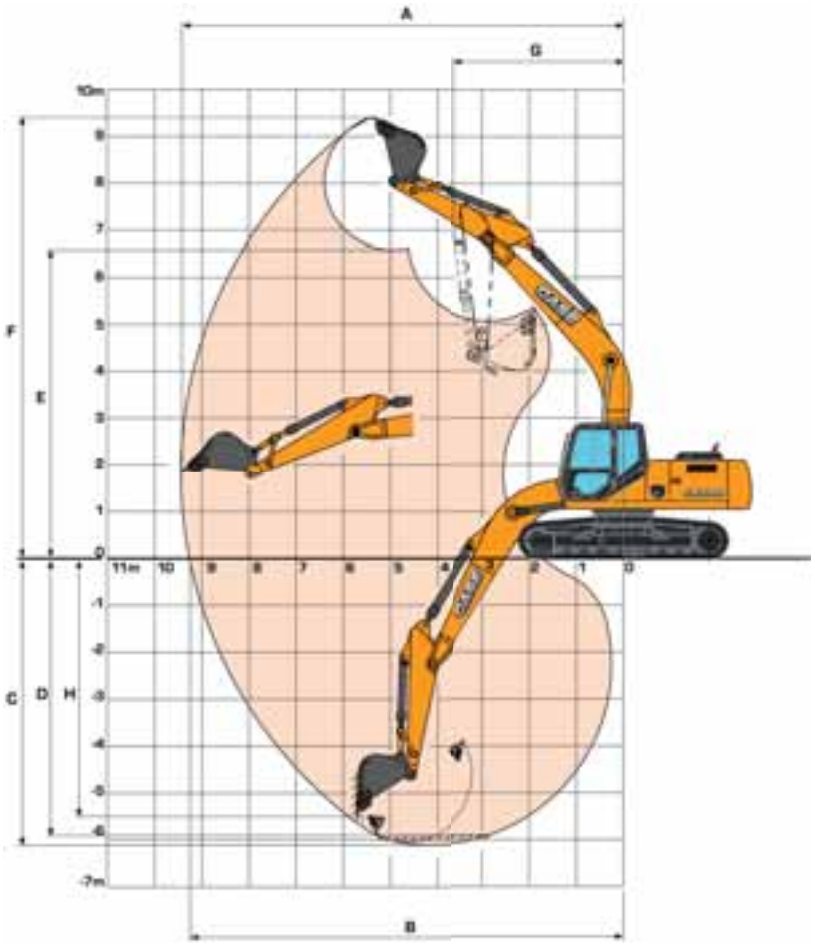
PERFORMANCE DATA



DIPPER LENGTH			1.90 m	2.40 m	2.94 m
A	Maximum digging reach	m	8.96	9.42	9.90
B	Maximum digging reach at ground level	m	8.77	9.24	9.73
C	Maximum digging depth	m	5.61	6.10	6.65
D	Digging depth - 2.44 m level bottom	m	5.37	5.90	6.47
E	Max dump height	m	6.36	6.62	6.84
F	Overall reach height	m	9.19	9.44	9.64
G	Minimum swing radius - attachment	m	3.58	3.60	3.60
H	Vertical straight wall dig depth	m	5.01	5.50	5.96
	Digging force - w/o Power Boost	daN	14 200	12 300	10 300
	- with Power Boost	daN	15 200	13 200	11 000
	Breakout force - w/o Power Boost	daN	14 200	14 200	14 200
	- with Power Boost	daN	15 200	15 200	15 200

LIFTING CAPACITY with 5.70 m Monoboom

Front / 360°

	REACH														
	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		At max reach		m
Undercarriage STD - 2.94 m arm length, 600mm shoes and bucket of 0.80 m3 / 650 kg															
7,5 m									2990*	2900			2210*	2210*	7.76
6,0 m									3850*	2890			2100*	2090	8.71
4,5 m							4710*	4160	4280	2780	3100	1910	2090*	1780	9.28
3,0 m			10000*	10000*	7500*	6250	5780*	3900	4200	2640	3030	1850	2160*	1620	9.54
1,5 m			9260*	9260*	9210	5650	5830	3610	4330	2490	2950	1770	2300*	1570	9.53
0 m			8360*	8360*	8910	5230	5570	3380	3900	2360	2890	1710	2540*	1620	9.28
-1,5 m	6970*	6970*	10510*	9650*	8730	5080	5430	3250	3820	2290			2950*	1780	8.77
-3,0 m	9540*	9540*	14220*	10240	8780	5150	5450	3290	3890	2350			3520	2110	7.95
-4,5 m	13420*	13420*	13370*	10540	8880	5360	5620	3520					4570	2780	6.79
Undercarriage STD - 2.94 m arm length, 800mm shoes and bucket of 0.80 m³ / 650 kg															
7,5 m									2990*	2980			2210*	2210*	7.76
6,0 m									3850*	2960			2100*	2100*	8.71
4,5 m							4710*	4270	4370*	2860	3160*	1970	2090*	1840	9.28
3,0 m			10000*	10000*	7500*	6400*	5780*	4000	4320	2710	3130	1910	2160*	1680	9.54
1,5 m			9260*	9260*	9300*	5790	5990	3710	4160	2570	3050	1830	2300*	1630	9.53
0 m			8360*	8360*	9160	5380	5740	3480	4020	2440	2990	1770	2540*	1680	9.28
-1,5 m	6970*	6970*	10510*	9900	8980	5230	5590	3350	3940	2360			2950*	1840	8.77
-3,0 m	9540*	9540*	14220*	10500	9030	5300	5620	3390	4010	2430			3630	2180	7.95
-4,5 m	13420*	13420*	13370*	10810	9080*	5500	5770	3630					4720	2970	6.79
-6,0 m					6280*	5610							5950*	5300	4.66
Undercarriage STD - 2.40 m arm length, 600mm shoes and bucket of 0.90 m³ / 650 kg															
7.5 m							3440*	3440*					3310*	3130	7.1
6.0 m							4580*	4230	4280*	2810			3150*	2350	8.14
4.5 m					6270*	6270*	5180*	4050	4280	2720			3130*	1970	8.76
3.0 m					8220*	6000	5970	3780	4130	2580	3000	1810	2960	1790	9.05
1.5 m					9170	5450	5720	3520	3980	2440	2940	1760	2900	1730	9.05
0 m			7390*	7390*	8800	5140	5510	3330	3870	2340			3020	1800	8.78
-1.5 m	7960*	7960*	10980*	2720	8740	5110	5440	3270	3850	2320			3340	2010	8.23
-3.0 m	11100*	11100*	14440*	10390	8860	5220	5220	3350					4040	2460	7.33
-4.5 m			11870*	10610	8320*	5510							5400*	3500	5.96
Undercarriage STD - 2.40 m arm length, 800mm shoes and bucket of 0.90 m³ / 650 kg															
7.5 m							3440*	3440*					3310*	3220	7.1
6.0 m							4580*	4310	4280*	2890			3150*	2420	8.14
4.5 m					6270*	6270*	5180*	4150	4410	2800			3130*	2040	8.76
3.0 m					8120*	6150	6100*	3880	4260	2660	3990	1880	3060	1850	9.05
1.5 m					9390	5600	5890	3620	4110	2520	3030	1810	3000	1800	9.05
0 m			7390*	7390*	9050	5280	5680	3430	3990	2420			3120	1860	8.78
-1.5 m	7960*	7960*	10980*	9970	9000	5260	5600	3370	3970	2390			3450	2080	8.23
-3.0 m	11100*	11100*	14440*	10650	9110	5370	5680	3460					4170	2540	7.33
-4.5 m			11870*	10850	8320*	5660							5400*	3600	5.96
Undercarriage STD - 1.91 m arm length, 600mm shoes and bucket of 1.00 m³ / 700 kg															
7.5 m							4590*	4240					4040*	3660	6.47
6.0 m							4870*	4170	4300	2730			3830*	2640	7.62
4.5 m					6940*	6370	5600*	3970	4230	2670			3520	2180	8.28
3.0 m					8480*	5850	5940	3720	4100	2550			3220	1970	8.59
1.5 m					9050	5360	5680	3490	3970	2430			3170	1910	8.59
0 m					8780	5130	5510	3330	3880	2350			3310	2000	8.31
-1.5 m			11660*	9880	8810	5170	5470	3310	3900	2370			3730	2260	7.72
-3.0 m			13540*	10610	8940	5320	5610	3450					4650	2850	6.75
-4.5 m			10450*	10450*	7380*	5540							5700*	4340	5.25

Machine in Auto mode - Lift capacities are taken in accordance with SAE J1097/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 table to calculate the real lift capacity

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
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
RH front console with clock and cell phone holder
High capacity shock absorbers on cab with 4 points fluid mountings
Windscreen with lockable opening
Windscreen washer and wiper
Removable lower front windscreen with storage location in cab
ISO control pattern low effort & long joysticks
Adjustable sun visor
Washable cab floor mat
Rear view mirror and safety mirrors
Storage compartments
Integrated cool box
Fore & aft adjustment of the whole seat & console

ELECTRICAL SYSTEM
Water proof connectors
Double horn
Working light on the fuel tank
Working light on the boom

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
Track guides (1 guide & front)
Large tool box
Pre-disposal for the optional cab protection

OPERATOR SEAT
Fully adjustable low frequency mechanical seat including double acting hydraulic damper
Adjustable head rest
Adjustable seat back angle with Fully flat seat reclining
Adjustable arm rest
Adjustable lombar position
Height/fore & aft adjustment
Safety belt

OPTIONS

Bucket/clamshell hydraulic circuit
Hammer hydraulic circuit
Hammer/shear hydraulic circuit
Additional track guides (3 guides & front)
Track width (600mm - 700mm - 800mm depending on the version)
Windscreen protection
Cab protection
Electrical refuel pump with automatic stop
Hydraulic safety valves on boom and dipper
Rain deflector
2 working light on the cab
Fully adjustable low frequency air suspension seat including double acting hydraulic damper

NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.

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