

CX B-SERIES HYDRAULIC EXCAVATORS
CX240B

CASE
CONSTRUCTION



**MAXIMUM POWER
AND COMFORT**

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EXPERTS FOR THE REAL WORLD
SINCE 1842

MAXIMUM POWER AND COMFORT

DIGGING FORCE

Advanced hydraulic system has three working modes offering higher breakout forces, improved swing speeds and greater swing torque, resulting in faster cycle times and 5% increase in productivity. Power boost function is automatically engaged in Auto mode.

Fuel efficient common rail engine meets Tier III emission regulations with reduced fuel consumption and increase in output. Electronic management of speed and power offering lower fuel consumption and productivity benefits. Lower fuel costs. Higher machine output.

ROBUST DESIGN

Rugged appearance of improved cab and upper structure contribute to high operator satisfaction. Compact four cylinder Tier III engine uses technology from much larger Case machines, to reduce ownership costs and boost productivity. Exhaust gas recirculation ensures minimum environmental impact. Cab design provides more space and comfort, reducing operator fatigue over the working day. Advanced engine control system eases operation, with three-mode hydraulic control matching the machine to the application. Designed to work. Built to perform.

DURABILITY BUILT IN

Redesigned upperstructure to match increased hydraulic performance, ensures legendary Case durability and reliability. Boom and dipper feature forged brackets and reduced tolerances for increased component life and reduced downtime. Resin side shims on boom and dipper contribute to lower wear and longer service intervals. High performance undercarriage components designed to perform in arduous conditions. New synthetic hydraulic filter reduces system contamination, cutting service costs and boosting machine longevity.

Reduced ownership cost. Increased uptime.



PROFITABILITY BONUS

Lower fuel consumption and a 20% increase in fuel tank capacity, result in up to two day work period between refills. High flow electric refuelling pump with auto stop feature as standard. Extended Maintenance System bushes provide 1,000 hour greasing intervals on majority of pins. Green oil drain plugs ease maintenance and provide environmental benefits. Ground access to all filters and best in class service times ensure maximum uptime and reduced ownership and operating costs. Ease of maintenance. Built to keep working.

OPERATOR COMFORT

Improved cab structure offers more leg and foot space, with glass surface increase contributing to spacious impression for the operator. Ergonomic layout, intuitive controls, short comfortable joysticks and a seat that lays flat ensures optimum comfort for all operators. Viscous fluid cab mountings and lower internal noise levels contribute to a reduction in stress and fatigue, boosting machine performance. Four position consoles with return to preset on left hand console will suit operators of all sizes. Maximum comfort. Operator satisfaction.

SAFETY FIRST

New cab offers larger glass area for improved all round visibility, including single window on right hand side for unobstructed view. Frame structure has three times the structural rigidity of previous model, reducing noise and vibration for the operator. Simple control console with ergonomic design makes it easier to choose the correct operating mode, increasing efficiency and reducing fuel consumption. Improved visibility. Reduced operator fatigue.



CX B-SERIES HYDRAULIC EXCAVATORS

HYDRAULICS

Hydraulic pump torque variable control system, maintains optimum engine rpm during heavy load work. Control rapidly reacts to demand, resulting in fuel saving. Hydraulic system uses improved piston pumps with tighter tolerances, reducing system losses and contributing with the new swing relief system into important fuel saving. Revised hose burst control valves mounted behind the main lift cylinders, for maximum safety. Synthetic fibre Super Fine full flow hydraulic filter offers high contamination catching performance, with no need for additional filter when using hydraulic breakers.



ENGINE

Low speed four cylinder common rail engine exceeds Tier III emissions standards and ready for Tier IV. Strong engine block and ladder frame construction, with virtually the same weight as previous six cylinder engine, provide extended durability and with low rev cooling fan contribute to 5% lower noise levels. Fuel cooler results in improvement in engine fuel consumption, while exhaust gas recirculation (EGR) reduces gaseous emissions. Radiators and coolers mounted side by side for improved cooling, while large diameter low speed fan contributes to lower noise levels. Auto and one-touch idle speed control for greater operator control.



HD CONSOLE, ENGINE THROTTLE

Easy to read console has centralised switch layout for ease of use and luminosity sensor to ensure that graphics can be read in any light conditions. Advanced engine throttle control determines working mode selection, with Power Boost always on in Auto mode. Fully adjustable consoles house short lever joysticks, that are comfortable and improve machine controllability. Machine versatility further improved, as up to 10 auxiliary hydraulic flow settings are programmed into the CX240B's memory. This allows up to 10 attachments to be used with no manual adjustment to hydraulic circuit. Operator can change between hydraulic attachment settings from within the cab.



OPERATOR'S CAB

Improved cab has reduced width pillars and 60% more glass, including single piece window on right hand side, for great improvement in all round visibility. Structure is 30% stronger, which with viscous fluid cab mounts results in lower noise and vibration, reducing operator fatigue. Four positions for consoles and return to preset on left hand console. Standard air conditioning with nine outlet louvres, along with longer seat slides, a fully reclining seat and more foot space, ensure that operators of any size can get comfortable. Cup holders, clock, mobile phone holder, built-in coolbox and numerous storage compartments for ease of day to day living.

CX B-SERIES HYDRAULIC EXCAVATORS

MAINTENANCE

All filters can be accessed from ground level in centralised position, reducing regular service time. Fuel tank has drain cock and removable maintenance plate, making it easier to clean out in case of contamination. High flow refuelling pump, twice as fast as previous model, has auto stop function to make refilling faster, further reducing downtime. Green engine oil drainer helps reduce environmental impact. Centralised electrics positioned within the cab, behind the operator's seat, to ensure cleanliness and dry operating conditions.



UNDERCARRIAGE

Track components are designed for extended durability. Case sprockets are heat treated for longer service life. Durability of track guides and track links has been further improved, with new M shaped seals and increased pin hardness extending operating hours and boosting the Case reputation for robust durable design. Track rollers have revised shape and design for less wear, with an improved O-ring design extending service life.



IMPROVED PIN AND BUSHING LIFE

Extended Maintenance Bushings (EMS) fitted as standard on all CXB machines (only on machines above the CX330 previously). EMS bushings provide 1,000 hour greasing intervals on all but bucket linkage, which retains 250 hour intervals. Anti-friction shims at boom foot and head limit friction and noise in operation and cut free play, increasing durability and reliability and reducing ownership costs.



Antifriction shims



EMS chrome plated pins with brass bushing



ATTACHMENTS/BUCKETS

CX240B customers can choose from a variety of main booms and dipper arms to suit different applications, all of which are constructed of heavy duty steel box section with internal baffles to increase torsional rigidity. Deep groove welding ensures that the booms and arms can withstand the stress of high breakout forces, heavy lifting and attachments such as hydraulic breakers, compactors, demolition shears and crushers. With a different choice of booms and dipper sticks, along with a range of buckets from 0.47m³ - 1.43 m³, there is a configuration to meet the requirements of every customer's job site.

CX B-SERIES **HYDRAULIC EXCAVATORS**



SPECIFICATIONS

CX240B

ENGINE

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

Make _____ ISUZU
 Type _____ AH-4HK1X
 Common rail, turbo, intercooler, fuel coolerGR
 (Exhaust Gas Recirculator) _____ Yes
 Direct injection _____ Electronically controlled
 Number of cylinders _____ 4
 Bore - Stroke _____ 15 x 125 mm
 Cubic capacity _____ 5193 cc
 Horsepower EEC80/1269 _____ 132 kW/177 hp @ 2000 rpm
 Maximum Torque _____ 636 Nm @ 1500 rpm

HYDRAULIC SYSTEM

Max output _____ 2 x 234 l/min @ 2000 rpm
 2 axial piston, variable flow pumps _____ Yes
 Attachment/Power Boost _____ 343/368 bar
 Upperstructure swing _____ 289 bar
 Travel _____ 343 bar
 Oil filtration _____ 6 micron
 Type of oil filter _____ Synthetic fiber Super fine High catch

SWING

Max upperstructure swing speed _____ 10.7 rpm
 Swing torque _____ 7490 daN

TRAVEL

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

Max travel speed _____ 5.5 km/h
 Low travel speed _____ 3.5 km/h
 Speed change is controlled from the instrument panel
 Automatic downshifting _____ yes
 Gradeability _____ 70% (35°)
 Tractive force _____ 2013 daN

BUCKETS

GENERAL PURPOSE

SAE capacity (l)	475	640	810	940	1060	1180	1300	1430
Width (mm)	600	750	900	1000	1100	1200	1300	1400
Weight (kg)	525	560	660	715	725	765	805	840

HEAVY DUTY

SAE capacity (l)	1060	1180	1300	1430
Width (mm)	1100	1200	1300	1400
Weight (kg)	820	865	905	950

ELECTRICAL SYSTEM

Circuit _____ 24V
 Batteries _____ 2 X 12V - 92 A/h
 Circuit equipped with water-proof connectors _____ yes
 Alternator _____ 24 V - 50 Amp

UNDERCARRIAGE

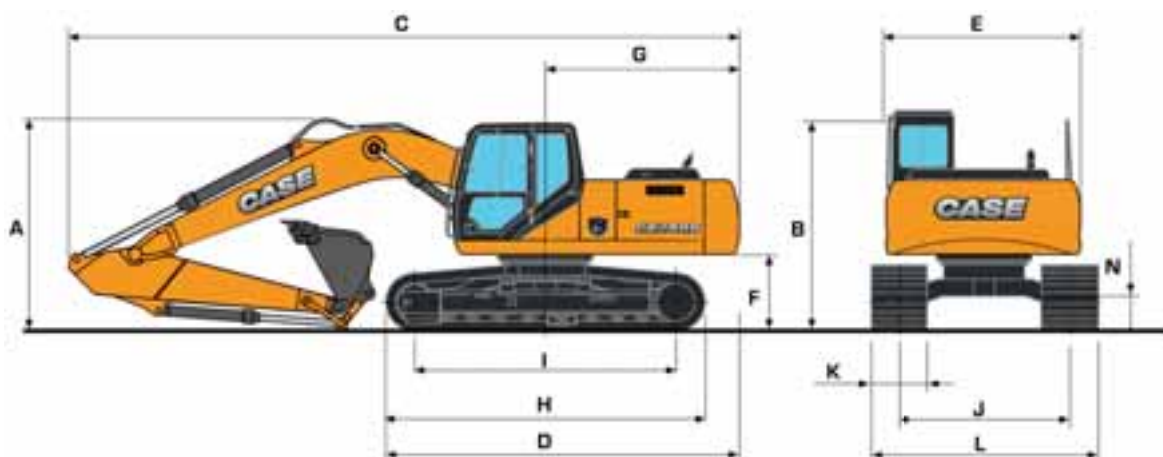
Upper rollers _____ 2
 Lower rollers _____ 9
 Number of track pads _____ 51
 Type of shoes _____ Triple grouser
 Track pad width Standard LC/NLC _____ 600 mm
 Track guard _____ Front and 1 central

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank _____ 410 l
 Hydraulic reservoir LC/NLC _____ 147 l
 Hydraulic system _____ 250 l
 Travel reduction gear (per side) _____ 4.5 l
 Swing reduction gear _____ 9.7 l
 Engine (including filter change) _____ 23.1 l
 Engine cooling system _____ 25.2 l

CX B-SERIES HYDRAULIC EXCAVATORS

GENERAL DIMENSIONS



		CX240B LC MONO			CX240B NLC MONO			
		2.50 m	3.00 m	3.52 m	2.50 m	3.00 m	3.52 m	
DIPPER LENGTH								
A Overall height (with attachment)	m	3.31	3.15	3.31	3.31	3.15	3.31	
B Height (cab/handrail)	m	3.00/3.02	3.00/3.02	3.00/3.02	3.00/3.02	3.00/3.02	3.00/3.02	
C Overall length (with attachment)	m	9.98	9.93	9.91	9.98	9.93	9.91	
D Overall length (without attachment)	m	5.27	5.27	5.27	5.27	5.27	5.27	
E Width of upperstructure	m	2.77	2.77	2.77	2.77	2.77	2.77	
F Upperstructure ground clearance	m	1.10	1.10	1.10	1.10	1.10	1.10	
G Swing radius (rear end)	m	2.94	2.94	2.94	2.94	2.94	2.94	
H Track overall length	m	4.65	4.65	4.65	4.65	4.65	4.65	
I Centre idler to centre sprocket	m	3.84	3.84	3.84	3.84	3.84	3.84	
J Track gauge	m	2.59	2.59	2.59	2.39	2.39	2.39	
K Track shoe width standard	mm	600	600	600	600	600	600	
L Track overall width	- 600mm shoes	m	3.19	3.19	3.19	2.99	2.99	2.99
	- 700mm shoes	m	3.29	3.29	3.29	-	-	-
	- 800mm shoes	m	3.39	3.39	3.39	-	-	-
N Ground clearance	m	0.46	0.46	0.46	0.46	0.46	0.46	

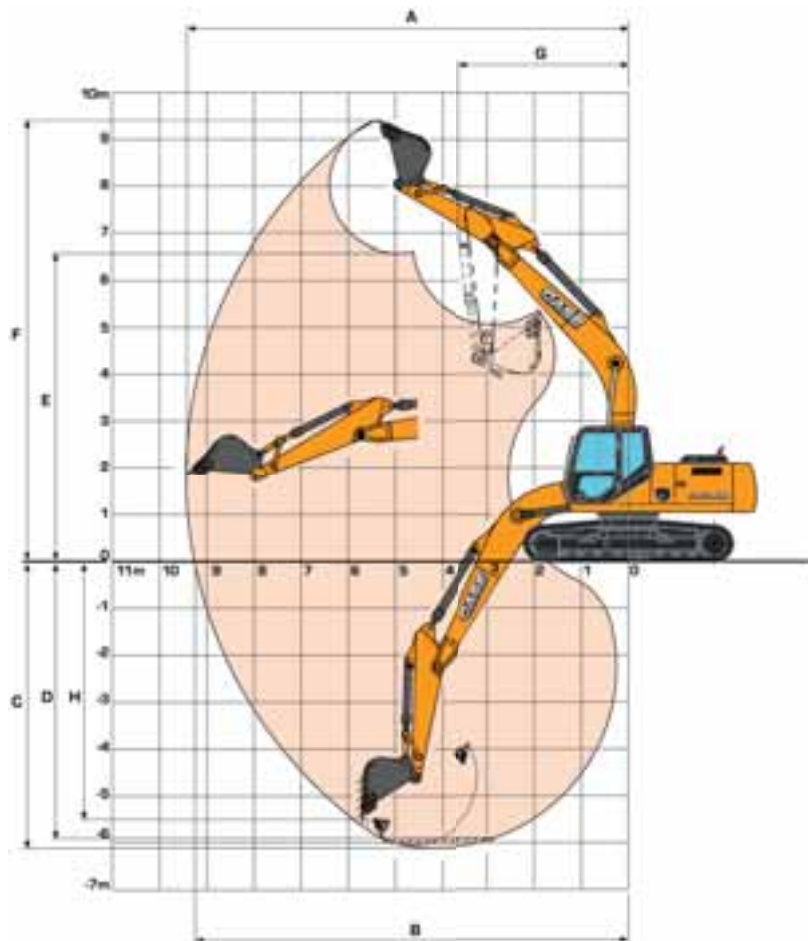
WEIGHT AND GROUND PRESSURE

With 5.85 m standard monoboomb 3.00 m dipper - 810 kg, 1.1 m³ bucket, operator and full fuel tank

	WEIGHT (KG)		GROUND PRESSURE (BAR)	
	LC	NLC	LC	NLC
shoes 600mm steel	24500	24500	0.48	0.48
shoes 700mm steel	24800	-	0.42	-
shoes 800mm steel	25100	-	0.37	-

PERFORMANCE DATA

with 5.70 m Standard Monoboam - 2.40 m Dipper



DIPPER LENGTH		2.50 m	3.00 m	3.52 m	
A	Maximum digging reach	m	9.82	10.28	10.79
B	Maximum digging reach at ground level	m	9.63	10.10	10.62
C	Maximum digging depth	m	6.40	6.90	7.42
D	Digging depth - 2.44 m level bottom	m	6.21	6.74	7.27
E	Max dump height	m	6.55	6.76	7.06
F	Overall reach height	m	9.56	9.76	10.07
G	Minimum swing radius - attachment	m	3.98	3.95	3.95
H	Vertical straight wall dig depth	m	5.70	6.14	6.68
	Digging force - w/o Power Boost	daN	14100	12000	10700
	- with Power Boost	daN	15100	12900	11500
	Breakout force - w/o Power Boost	daN	16200	16200	16200
	- with Power Boost	daN	17400	17400	17400

LIFTING CAPACITY

with 5.85 m Standard MonoBoom

Front 360°	REACH											
	3.0 m		4.5 m		6.0 m		7.5 m		8.0 m		At max reach	

LC with 3.52 m dipper, 600 mm shoes and bucket of 1.0 m³ - 790 kg

7.5 m											2576*	2576*	7.41
6.0 m							4353*	4317			2447*	2447*	8.34
4.5 m							5158*	4169			2442*	2442*	8.93
3.0 m			8204*	8204*	6576*	5771	5750*	3955	3522*	2851	2540*	2540*	9.24
1.5 m	11484*	11484*	10604*	8395	7810*	5351	5850	3730	4138*	2719	2751*	2562	9.30
0 m	10114*	10114*	12270*	7814	8091	5021	5644	3542	3753*	2627	3116*	2575	9.11
-1.5 m	12677*	12677*	12931	7549	7875	4830	5521	3429			3742*	2751	8.65
-3.0 m	16904*	15468	12705*	7512	7820	4782	5511	3421			4922*	3180	7.89
-4.5 m	16495*	15838	11388*	7667	7947	4893					6673	4158	6.72
-6.0 m	11758*	11758*	8095*	8095*							7389*	7263	4.83

LC with 3.00 m dipper, 600 mm shoes and bucket of 1.1 m³ - 806 kg

7.5 m											3182*	3182*	6.72
6.0 m							3906*	3906*			3039*	3039*	7.74
4.5 m					6046*	6046*	5630*	4127			3062*	3062*	8.37
3.0 m	14604*	14604*	9149*	9037	7142*	5690	6064	3931			3221*	3018	8.70
1.5 m	8696*	8696*	11366*	8238	8283*	5301	5841	3727			3538*	2873	8.76
0 m	9984*	9984*	12711*	7766	8078	5017	5666	3567			4087*	2900	8.56
-1.5 m	13767*	13767*	12970	7591	7916	4873	5580	3489			4995	3131	8.08
-3.0 m	18165*	15702*	12466*	7623	7918	4875					5913	3703	7.25
-4.5 m	15129*	15129*	10676*	7851							7719*	5130	5.95

LC with 2.50 m dipper, 600 mm shoes and bucket of 1.3 m³ - 868 kg

6.0 m											4446*	4466*	7.20
4.5 m					6592*	5992	6063*	4072			4521*	3716	7.88
3.0 m			10003*	8832	7638*	5615	6026	3899			4806*	3318	8.23
1.5 m			12012*	8113	8350	5261	5830	3720			4959	3159	8.29
0 m	9259*	9259*	13017*	7748	8077	5020	5688	3590			5074	3207	8.08
-1.5 m	14867*	14867*	13026*	7655	7967	4923	5646	3552			5575	3510	7.56
-3.0 m	17127*	15976*	12095*	7750	8029	4977					6810	4273	6.68
-4.5 m	13537*	13537*	9742*	8061							8200*	6402	5.23

LC with 3.52 m dipper, 600 mm shoes and bucket of 1.0 m³ - 790 kg

7.5 m											2576*	2576*	7.41
6.0 m							4353*	3943			2447*	2447*	8.34
4.5 m							5158*	3797			2442*	2442*	8.93
3.0 m			8204*	8204*	6576*	5248	5750*	3587	3522*	2550	2540*	2417	9.24
1.5 m	11484*	11484*	10604*	7547	7810*	4836	5832	3365	4138*	2438	2751*	2294	9.30
0 m	10114*	10114*	12270*	6984	8066	4514	5626	3181	3753*	2348	3116*	2301	9.11
-1.5 m	12677*	12677*	12892	6726	7850	4327	5502	3070			3742*	2457	8.65
-3.0 m	16904*	13467	12705*	6690	7796	4279	5493	3061			4922*	2846	7.89
-4.5 m	16495*	13816	11388*	6841	7922	4389					6651	3733	6.72
-6.0 m	11758*	11758*	8095*	7257							7389*	6524	4.83

NLC with 3.00 m dipper, 600 mm shoes and bucket of 1.1 m³ - 806 kg

7.5 m											3182*	3182*	6.72
6.0 m							3906*	3882			3039*	3039*	7.74
4.5 m					6046*	5559	5630*	3757			3062*	3045	8.37
3.0 m	14604*	14604*	9149*	8170	7142*	5170	6046	3564			3221*	2723	8.70
1.5 m	8696*	8696*	11366*	7396	8283*	4790	5823	3364			3538*	2583	8.76
0 m	9984*	9984*	12711*	6939	8053	4511	5648	3207			4087*	2601	8.56
-1.5 m	13767*	13496	12931*	6770	7891	4370	5562	3130			4979	2807	8.08
-3.0 m	18165*	13691	12466*	6800	7893	4372					5894	3325	7.25
-4.5 m	15129*	14122	10676*	7021							7719*	4616	5.95

NLC with 2.50 m dipper, 600 mm shoes and bucket of 1.3 m³ - 868 kg

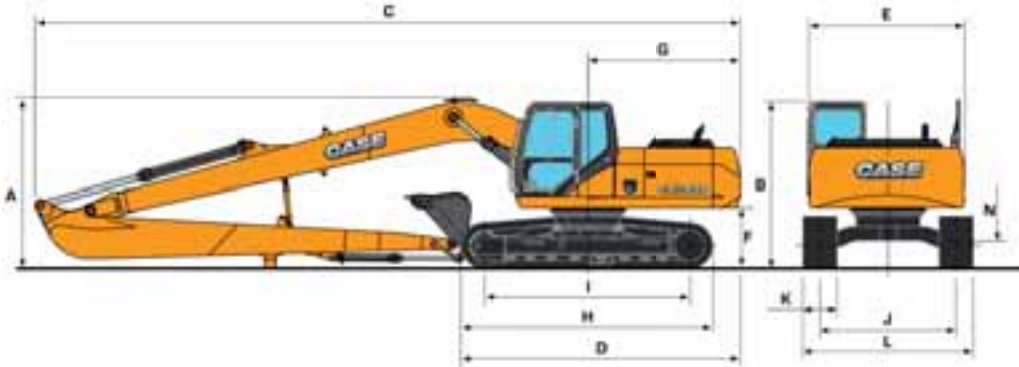
6.0 m											4446*	4105	7.20
4.5 m					6592*	5466	6063*	3703			4521*	3374	7.88
3.0 m			10003*	7973	7638*	5097	6008	3534			4806*	2999	8.23
1.5 m			12012*	7277	8325	4750	5812	3358			4943	2846	8.29
0 m	9259*	9259*	13017*	6922	8053	4515	5669	3230			5057	2883	8.08
-1.5 m	14867*	13696	13000	6832	7942	4420	5627	3192			5557	3154	7.56
-3.0 m	17127*	13951	12095*	6925	8004	4473					6789	3845	6.68
-4.5 m	13537*	13537*	9742*	7226							8200*	5763	5.23

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

SPECIFICATIONS

CX240B LONG REACH BOOM

with 10.30 m Long Reach Boom



DIPPER LENGTH

CX240B LR
8.00 m

A	Overall height (with attachment)	m 3.13
B	Height (cab/handrail)	m 3.00/3.02
C	Overall length (with attachment)	m 14.38
D	Overall length (without attachment)	m 5.27
E	Width of upperstructure	m 2.77
F	Upperstructure ground clearance	m 1.10
G	Swing radius (rear end)	m 2.94
H	Track overall length	m 4.65
I	Centre idler to centre sprocket	m 3.84
J	Track gauge	m 2.59
K	Track shoe width standard	mm 800
L	Track overall width 800mm shoes	m 3.39
N	Ground clearance	m 0.46

WEIGHT AND GROUND PRESSURE

With 10.30 m long reach boom 8.00 m dipper 338 kg, 0.37m³ bucket operator and full fuel tank

	Weight (kg)	Ground pressure (bar)
shoes 800mm steel	28000	0.42

BUCKETS

GENERAL PURPOSE

SAE capacity (l)	370	570
Width (mm)	600	910

DITCH

SAE capacity (l)	570	670
Width (mm)	1520	1680

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
Electrical refuel pump with automatic 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 visibility cab with safety glass
Adjustable and 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 sliding sun shade
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
12V and 24V 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
2 working light on the cab
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 air suspension seat including double acting
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 (guides & front instead of 1 guide

& front)
Track width (600mm - 700mm - 800mm depending on the version)
Windscreen protection

Cab protection
GPS (Global Positioning System) by satellite
Centralized greasing system automatically actuated by an electrical grease pump



PARTS AND SERVICE

Wide network of customer support across the world.

No matter where you work, we're here to support and protect your investment and exceed your expectations. You can count on Case and your Case dealer for full-service solutions-productive equipment, expert advice, flexible financing, genuine Case parts and fast service. We're here to provide you with the ultimate ownership experience. To locate a Case dealer or learn more about Case equipment or customer service, go to www.casece.com

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.

