



CASE
CONSTRUCTION

C-SERIES CRAWLER EXCAVATORS



CX220C | CX220C LC

MAIN REASONS TO CHOOSE THE C-SERIES



HIGH PRECISION AND CONTROLLABILITY

High performance and smooth control.

The CASE Intelligent Hydraulics System is the result of the continuous research in pursuit of perfection of a legendary brand. CASE is a reference in the market for the fastest cycles times, best energy saving performance and smooth control of its crawler excavators.



EXTREME VERSATILITY

The perfect machine for every application.

3 available power modes, 10 auxiliary hydraulic settings and 3 different arm options.



FAST CYCLES

High breakout force.

Continuous operations.

Up to 10% higher digging capability.

With A/H/SP working modes and Auto Power boost.



OPTIMAL RELIABILITY

Robust design.

Increased plate thickness on HD structures to improve durability of undercarriage and attachment.

Lower cost of ownership.





OUTSTANDING VISIBILITY

Safe and fast operations.
More comfort.
Larger glazed area.



COMFORT AND SAFETY

Spacious and safe cab.
Low noise and vibrations.
Ergonomic workstation.
Real-time monitoring of machine parameters.
With the newly designed cab, fully adjustable seat, joysticks and 7" LCD monitor.



EXCELLENT EFFICIENCY

The hydraulic system control delivers a 4% increase in fuel efficiency, while the FPT engine 6% better efficiency.
5 energy saving controls & ECO gauge function enable continuous monitoring of fuel consumption.



LOW TOTAL COST OF OWNERSHIP

Longer service intervals.
Reduced downtime.
Fast, easy and safe maintenance operations.
High-quality components and service points accessible from the ground.

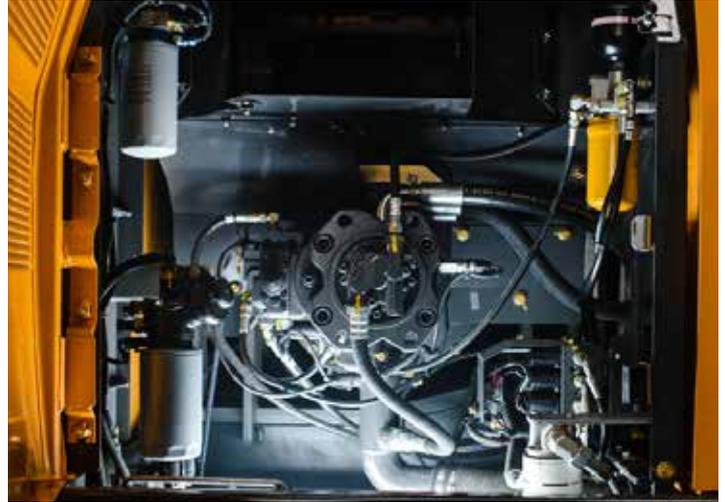
C-SERIES

HYDRAULIC EXCAVATORS

HIGH PRECISION AND CONTROLLABILITY

The proven CASE Intelligent Hydraulic System (CIHS) delivers impressive machine control with unrivalled energy and fuel savings in all cycle time phases. Two variable displacement axial piston pumps with regulating system are combined with the CASE main valve, designed in Japan for fine, precise and efficient operations.

The Hydraulic system is governed by a Machine Control Unit which collects input from pressure sensors located on pumps, main valve and pilot lines. The Machine Control Unit continuously dialogues with the Engine Control Unit in order to optimize machine output at all times in all conditions.



EXCELLENT EFFICIENCY

CASE advanced energy management consists of **5 Energy Saving Functions**

- **Automatic Economy Control (AEC):** improved fuel efficiency through a drop in engine rpm when the joysticks are in neutral position.
- **Boom Economy Control (BEC):** increased fuel efficiency in boom lowering/swinging operations.
- **Swing Relief Control (SWC):** optimized hydraulic power distribution in slewing operations to deliver the most efficient flow and pressure.
- **Spool Stroke Control (SSC):** pressure and flow control during digging and leveling operations.
- **Idle functions**
 - **Auto Idle:** lowers engine rpm after 5 seconds of joysticks inactivity.
 - **Idle Shutdown:** shuts the engine down after a pre-set time.

The CX220C/CX220C LC model is powered by a **fuel efficient FPT engine designed**, to boost machine performance and optimize fuel economy.

The 6-cylinder FPT engine **delivers** outstanding power and torque, and reduces transient time, so that the hydraulic system is immediately reactive to a load.

Fuel consumption can be constantly monitored by the operator throughout the **new ECO gauge** function, that displays in real time the energy saving level.



QUALITY YOU CAN TRUST



OPTIMAL RELIABILITY

Accurate, robust and simple design for high durability.

- The CX220C/CX220C LC features leading design solutions.
- The boom & arm plate thickness has been increased by 33% and the upper structure has been reinforced in all high-stress areas to improve durability.
- The boom has high strength casting parts joined with thicker hinge flanges to reduce stress on the structures.
- The arm design features a single side lateral thicker plate, with extra reinforcement plates and grid on the bottom side.
- The fortified structure and reduced tolerances of the bucket linkage extends component life, minimizing downtime.
- The anti-friction resin shims in the boom foot and head reduce noise and free play, increasing durability and reliability for the customer.

New undercarriage structure designed to last!

Thicker structural plates and new design:

- The 'sloped' lower frame design reduces the time needed to clean the undercarriage.
- Reinforced idler guards protect from stones.
- Larger pin diameter reduce contact surface pressure and increase component life.
- Travel motor frame with thicker plate for better durability.
- Recoil spring increase stroke for better cushion performance.
- Track guards ensure the chain remains on the rollers in all conditions.



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HYDRAULIC EXCAVATORS

COMFORT AND SAFETY

- The wide and spacious cab with ample legroom offers a secure and safe working environment.
- The ergonomically designed seat with 8 different adjustments enhances operator comfort and hence productivity.
- Vibration dampening protects against whole body fatigue for all-day productivity.
- The fully adjustable right-hand console features an advanced engine throttle control for working mode selection. The console is equipped with luminosity switches to ensure that the graphics are clear and easily readable in bright sunlight.
- The new cab features thinner pillars and ample glass areas, including a one-piece window on the right-hand side, for improved all-round visibility.
- Longer seat slides, a fully reclining seat, ample foot space, together with air conditioning featuring 8 outlet vents, ensure the operator's comfort throughout the working day. Practical features include a clock and ample storage space, with a large box behind the driver's seat and bottle or can holders on the front right side.
- A radio slot, speakers and antenna are provided as standard for easy radio add on.
- The ROPS/FOPS cab with transparent roof is an additional option.



OUTSTANDING VISIBILITY

- Larger glazed surface with two-piece door window.
- Improved front, top and side visibility - Openable roof window to provide better visibility on top.
- New 7" LED cluster for continuous monitoring of the main machine parameters.



FAST CYCLES

The advanced hydraulic system delivers higher breakout forces, improved swing speeds and greater swing torque, resulting in **faster cycle times and a 5% increase in productivity**.

The power boost function engages automatically, while the electronic management of speed and power reduces fuel consumption while increasing productivity with higher outputs.

EXTREME VERSATILITY

3 power modes to match every customer need:

- A** AUTO: for normal digging, grading, lifting and precision work. Power Boost always engaged.
- H** HEAVY: for heavy operations, always ensuring the best balance between productivity and fuel economy. Power Boost automatically engaged.
- SP** SPEED PRIORITY: extra speed and power for the most demanding jobs that require maximum productivity. Power Boost automatically engaged.

Operators can store up to **10 auxiliary hydraulic flow and pressure settings** to easily switch attachments with no need for mechanical adjustments.



LOW TOTAL COST OF OWNERSHIP

- All filters and regular check points are grouped and easily accessible from the ground.
- Easy access and centralised lubrication points.
- The battery disconnect switch is accessible from the ground when servicing the machine.
- The radiator and cooler are mounted side by side for more efficient cooling and easy access for cleaning.
- The machine can be supplied in versions suitable for Tropical climate (from -0°C to +50°C) as a standard offering.
- Optional refueling pump with auto cut off reduces downtime for regular fills.



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HYDRAULIC EXCAVATORS

CASE®
CONSTRUCTION

SiteWatch™



SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

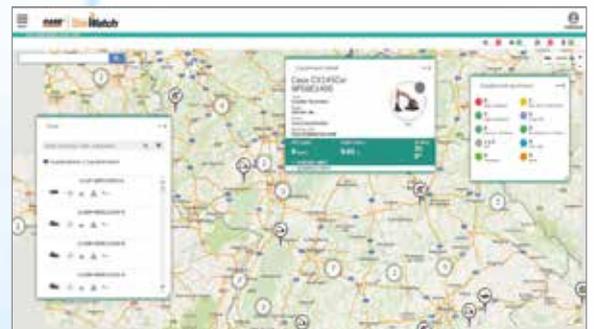
- SiteWatch allows to identify spare units or under loaded machines on each site.
- Reallocate units where they are more needed.
- Benefit from easy maintenance planning with the availability of actual machine hours and alerts a when service is due.
- Extend the benefits of SiteWatch to the rest of your fleet: SiteWatch can be installed on the units of other brands as well.

Challenge your Total Cost of Ownership!

- Being able to compare the fuel usage of different machine types will allow you to choose the right equipment.
- Save on transport costs with planned and grouped service interventions.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Compare your asset's Return on Investment on different sites.
- Your equipment is used only during working hours. You can receive alerts if it is used during the weekend or at night.

More safety, lower insurance premium

- Keep thieves away: your machine is geo localised, which discourages thieves. SiteWatch is hidden from view, making it difficult to find.
- Geo-fencing your asset. You can define a virtual fence and receive an email when a machine exits that perimeter.
- Recover your asset if it is taken away, thanks to the asset's continuous tracking.



TELEMATICS



C-SERIES

HYDRAULIC EXCAVATORS

ENGINE

Model _____ FPT F4HE0687A
 Type _____ Water-cooled, 4-cycle diesel,
 6-cylinder in line, electronically controlled, high pressure common
 rail system, turbocharger, air cooled intercooler
 Emission certified _____ Tier 3
 Displacement _____ 6.727 L
 Bore/Stroke _____ 104 x 132 mm
 Max power @1800min⁻¹ ISO 14396 _____ 117 kW
 Imperial _____ 157 hp
 Metric _____ 159 hp
 Maximum torque ISO 14396 GROSS _____ 622 Nm @ 1800 min⁻¹

HYDRAULIC SYSTEM

Type _____ 2 variable displacement axial piston pumps with regulating
 system
 Max oil flow _____ 2 x 211 l/min at 1800 min⁻¹
 Working circuit pressure _____
 Boom/Arm/Bucket circuit _____ 34.3 MPa
 Boom/Arm/Bucket circuit (with auto power up) _____ 36.8 MPa
 Swing circuit _____ 29.4 MPa
 Travel circuit _____ 34.3 Mpa

SWING

Maximum swing speed _____ 11.5 min⁻¹
 Swing torque _____ 64,400 N-m

FILTERS

Suction filter _____ 105 µm
 Return filter _____ 6 µm

WEIGHT AND GROUND PRESSURE

2.94 m arm, 1.0 m³ GP bucket, 600mm with triple track guard,
 operator, lubricant, coolant and full fuel tank

	CX220C	CX220C LC
Operating Mass	21,725 Kg	22,345 Kg
Ground Pressure	0.049 MPa	0.046 MPa

2.94 m arm, 1.0 m³ GP bucket, 800mm with triple track guard,
 operator, lubricant, coolant and full fuel tank

	CX220C	CX220C LC
Operating Mass	22,230 Kg	22,875 Kg
Ground Pressure	0.037 MPa	0.036 MPa

BUCKET SELECTION GUIDE

Bucket Cap (m ³)	Type	Application	Material Handled	CX220C			CX220C LC		
				1.90m Arm	2.40m Arm	2.94m Arm	1.90m Arm	2.40m Arm	2.94m Arm
1.00	GP	General	Earthwork	A	A	B	A	A	A
1.1	GP	Light Duty	Dry, Loose Earth	A	B	C	A	A	B
1.2	GP	Light Duty	Loose Soil	A	C	C	A	A	B
1.0	HD	Heavy Duty	Earth & Stone	A*	A*	C*	A	A	A
0.94	EHD	Extra Heavy Duty	Earth & Stone	X	X	X	A	A	A
	GM	Block Handling	Granite/Marble	X	X	X	A	A	X

*Standard undercarriage is not recommended and suitable for stone quarry applications.
 Maximum Material Density (Tons/m³) - A 1.80, B 1.60, C 1.40, X Not Advisable

Pilot line filter _____ 8 µm
 Main fuel filter _____ 4 µm
 Pre filter _____ 10 µm

TRAVEL

Travel motor _____ Variable displacement axial piston motor
 Max travel speed _____ 5.6 km/h
 Low travel speed _____ 3.4 km/h
 Gradeability _____ 70% (35°)
 Drawbar pull _____ 205 kN

ELECTRICAL SYSTEM

Circuit _____ 24V
 Alternator _____ 70 Amp
 Starter motor _____ 4.0 kW
 Battery _____ 2 x 12 V 110Ah

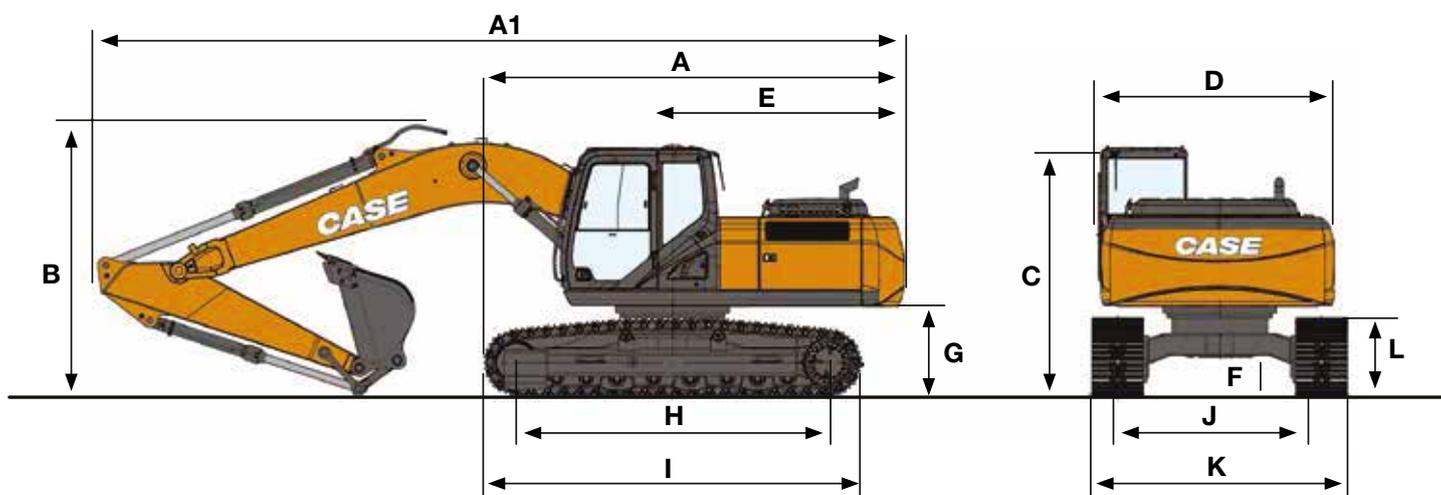
UNDERCARRIAGE

Number of carriers rollers (each side) _____ 2
 Number of track rollers (each side) (CX220C / CX220C LC) _____ 7/8
 Number of shoes (each side) (CX220C / CX220C LC) _____ 46/49
 Type of shoe _____ Triple grouser shoe

CAPACITIES

Fuel tank _____ 458 L
 Hydraulic system _____ 280 L
 Cooling system _____ 25 L
 Engine Crank _____ 16.5 L
 Hydraulic Tank capacity _____ 147 L

DIMENSIONS AND PERFORMANCE

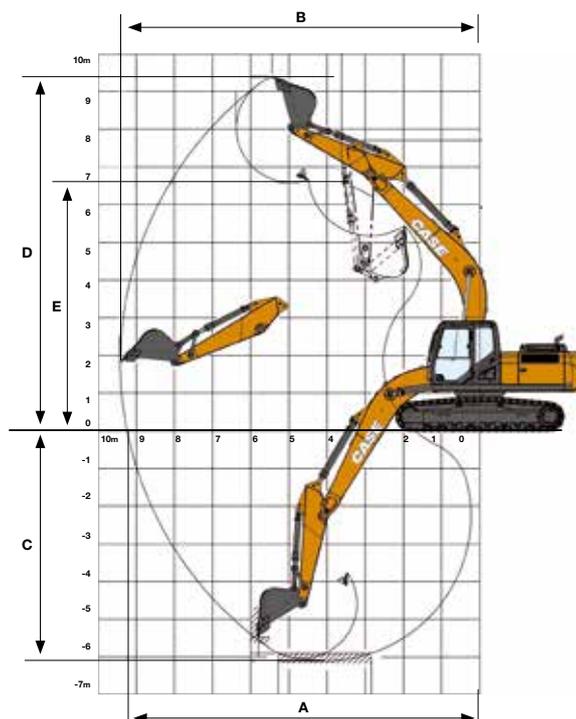


GENERAL DIMENSIONS

		CX220C			CX220C LC			
		Arm 1.90 m	Arm 2.40 m	Arm 2.94 m	Arm 1.90 m	Arm 2.40 m	Arm 2.94 m	
A	Overall length (without attachment)	mm	4840	4840	4840	4985	4985	4985
A1	Overall length (with attachment)	mm	9520	9510	9430	9520	9510	9430
B	Overall height (with attachment)	mm	3008	3198	2980	3008	3198	2980
C	Cab height	mm	2950	2950	2950	2950	2950	2950
D	Upper structure overall width	mm	2770	2770	2770	2770	2770	2770
E	Swing (rear end radius)	mm	2780	2780	2780	2780	2780	2780
F	Minimum ground clearance	mm	440	440	440	440	440	440
G	Clearance height under upper structure	mm	1040	1040	1040	1040	1040	1040
H	Wheel base (Center to center of wheels)	mm	3370	3370	3370	3660	3660	3660
I	Crawler overall length	mm	4180	4180	4180	4470	4470	4470
L	Crawler tracks height	mm	920	920	920	920	920	920
J	Track gauge	mm	2200	2200	2200	2390	2390	2390
K	Undercarriage overall width (with 600 mm shoes)	mm	2800	2800	2800	2990	2990	2990

PERFORMANCE DATA

		CX220C			CX220C LC			
		Arm 1.90 m	Arm 2.40 m	Arm 2.94 m	Arm 1.90 m	Arm 2.40 m	Arm 2.94 m	
Boom length	mm	5700	5700	5700	5700	5700	5700	
Bucket radius	mm	1450	1450	1450	1450	1450	1450	
Bucket wrist action	°	177	177	177	177	177	177	
A	Maximum reach at GRP	mm	8770	9240	9730	8770	9240	9730
B	Maximum reach	mm	8910	9380	9870	8910	9380	9870
C	Max. digging depth	mm	5610	6110	6650	5610	6110	6650
D	Max. digging height	mm	9140	9410	9610	9140	9410	9610
E	Max. dumping height	mm	6330	6590	6810	6330	6590	6810
	Arm digging force with auto power up, ISO	kN	152	132	110	152	132	110
	Bucket digging force with auto power up, ISO	kN	152	152	152	152	152	152





CASE

CX220C
HEAVY DUTY LC



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HYDRAULIC EXCAVATORS

LIFTING CAPACITY

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

CX220C, ARM 2.40 m, WITHOUT BUCKET, SHOES 600 mm

7.5 m									5600*	5250	5,55
6.0 m					5380*	4640			5400*	3750	6,77
4.5 m			6830*	6830*	5820*	4480	4760	3100	4760	3100	7,5
3.0 m			8580*	6410	6580*	4240	4670	3020	4310	2780	7,88
1,5 m			9870	5940	6340	4010	4560	2920	4170	2670	7,96
0 m			9620	5730	6180	3860	4490	2850	4280	2730	7,75
-1,5 m	11380*	10940	9590	5710	6130	3820			4720	3000	7,23
-3.0 m	13120*	11160	9530*	5820	6240	3910			5810	3670	6,32
-4.5 m			6900*	6140					6280*	5650	4,78

CX220C, ARM 2.90 m, WITHOUT BUCKET, SHOES 600 mm

7.5 m					4740*	4690			3860*	3860*	6,23
6.0 m					4770*	4680			3580*	3270	7,33
4.5 m					5280*	4500	4770	3110	3510*	2750	8,01
3.0 m			7790*	6500	6090*	4240	4650	2990	3590*	2480	8,37
1,5 m			9450*	5950	6320	3970	4510	2860	3760	2380	8,45
0 m	6400*	6400*	9540	5650	6110	3780	4400	2760	3840	2410	8,25
-1,5 m	10990*	10610	9440	5560	6020	3700	4370	2730	4170	2620	7,76
-3.0 m	14070*	10810	9520	5620	6060	3740			4970	3110	6,92
-4.5 m	11290*	11290*	8060*	5860					6120*	4380	5,55

CX220C LC, ARM 2.40 m, WITHOUT BUCKET, SHOES 600 mm

7.5 m									5600*	5600*	5,55
6.0 m					5380*	5140			5400*	4170	6,77
4.5 m			6830*	6830	5820*	4980	5290*	3460	5280*	3460	7,5
3.0 m			8580*	7200	6580*	4740	5300	3380	4900	3120	7,88
1,5 m			10060*	6720	7260	4500	5190	3280	4740	3000	7,96
0 m			10680*	6510	7090	4350	5110	3210	4880	3070	7,75
-1,5 m	11380*	11380*	10510*	6480	7040	4310			5390	3370	7,23
-3.0 m	13120*	12910	9530*	6600	6990*	4400			6440*	4130	6,32
-4.5 m			6900*	6900*					6280*	6280*	4,78

CX220C LC, ARM 2.90 m, WITHOUT BUCKET, SHOES 600 mm

7.5 m					4740*	4740*			3860*	3860*	6,23
6.0 m					4770*	4770*			3580*	3580*	7,33
4.5 m					5280*	5010	4960*	3470	3510*	3080	8,01
3.0 m			7790*	7310	6090*	4740	5280	3350	3590*	2790	8,37
1,5 m			9450*	6740	6940*	4470	5140	3220	3820*	2680	8,45
0 m	6400*	6400*	10380*	6430	7020	4280	5030	3120	4240*	2730	8,25
-1,5 m	10990*	10990*	10510*	6330	6920	4190	5000	3090	4760	2960	7,76
-3.0 m	14070*	12550	9870*	6400	6970	4230			5680	3520	6,92
-4.5 m	11290*	11290*	8060*	6640					6120*	4940	5,55

CX220C LC, ARM 2.90 m, WITHOUT BUCKET, SHOES 800 mm

7.5 m					4740*	4740*			3860*	3860*	6,23
6.0 m					4770*	4770*			3580*	3580*	7,33
4.5 m					5280*	5120	4960*	3550	3510*	3160	8,01
3.0 m			7790*	7470	6090*	4850	5310*	3440	3590*	2870	8,37
1,5 m			9450*	6900	6940*	4580	5270	3300	3820*	2760	8,45
0 m	6400*	6400*	10380*	6580	7200	4390	5160	3200	4240*	2800	8,25
-1,5 m	10990*	10990*	10510*	6490	7110	4300	5130	3180	4890	3040	7,76
-3.0 m	14070*	12850	9870*	6560	7150	4340			5830	3610	6,92
-4.5 m	11290*	11290*	8060*	6800					6120*	5060	5,55

* 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 AND OPTIONS

STANDARD EQUIPMENT

ENGINE

FPT 6 cylinder turbocharger with air cooled intercooler
Double element air cleaner
Air-pre cleaner - cyclone type
Pre fuel filter
Fuel filter w/ water separator (HD Type adapted for low fuel quality)
Remote oil filter
Auto engine return to idle Economy System
Neutral safety start
Emergency stop
Dial type throttle control
Tropical package for temperatures 0°C +50°C

HYDRAULIC SYSTEM

2 variable flow piston pumps
Auto/Heavy/Speed Priority working modes
Torque control
Auto Power Boost Control
Swing Priority (swing+arm)
Swing Relief Control (SWC)
Spool Stroke Control (SSC)
Boom Economy Control (BEC)
Pre-set auxiliary pump settings
2-speed travel with auto downshift
Straight travel valve
100% return oil filtration

CAB AND OPERATOR COMPARTMENT

Telematics - SiteWatch
Cabin Fan
Pre-disposal for optional cab front guard
Pressurized cab heat and defrost functions
Long Type low-effort joystick controls
Sliding cockpit
Mechanical suspended seat
Adjustable Arm rest
Sun shade
Multifunction LCD color monitor
Auxiliary select system
12V electric socket
Rubber floor mat
Two piece door window
Roof top openable metal window
Windshield wiper / washer
Storage compartments
Anti-theft device (Start code System)
On-board diagnostic system
Standard handrails
Sliding front window – storable lower windshield
Rh front console w/ clock and cell phone holder
Rear mirror (mounted on cab)
Glow-plug pre-heat
HVAC with Auto Climate Control function

High band AM/FM Radio with Bluetooth, Antenna and 2-speakers
Shock-less cab suspension by 4-point fluid mounting

EQUIPMENT AND UNDERCARRIAGE

HD Monoboom
HD Arm
HD Bucket linkage
Two lights on cabin top
One light on tool box
One light on Boom foot
Tool box with Tool Kit
Sealed and lubricated chain
600mm triple grouser steel shoes
Rear mirror (mounted on tool box)
Single track guide
Lower Frame Underside Cover
Reinforced Guide Frame (only LC)

OPTIONAL EQUIPMENT

CAB AND OPERATOR COMPARTMENT

Air suspended seat
Upper front screen (mesh type)
Front Stone Guard (OPG LEVEL 2 certified)
ROPS/FOPS cabin with a transparent roof
FOPS Top Guard Level 2 certified (only ROPS CAB)
Short Type low-effort joystick controls
Cigarette Lighter

ENGINE & HYDRAULIC SYSTEM

Cold Package for ambient -25°C +45°C
Temperate Package for ambient -15°C/+45°C
Super Tropical Package for ambient 0°C/+55°C
Auxiliary single acting circuit (Hammer)
Auxiliary single or High flow circuit (Crusher)
Low Flow Hydraulic Circuit, Proportional Control on Joystick

EQUIPMENT AND UNDERCARRIAGE

HD Arm 1.90m
HD Arm 2.40m
HD Arm 2.94m
Bucket 0.94 Cum EHD
Bucket 1.0 Cum HD
Bucket 1.0 Cum GP with 2 side cutter
Bucket 1.1 Cum GP with 2 side cutter
Bucket 1.2 Cum GP with 2 side cutter
Bucket G&M (scoop type)
Side shrouds for HD & EHD bucket
Double track guide
Triple track guide
Two 70 Watt Working lights (boom & upperstructures)
700mm triple grouser steel shoes (only LC version)
800mm triple grouser steel shoes

UPPERSTRUCTURE

Refuel pump
Battery cut Off-Switch
Rear view Camera for safe working
Rear view Mirrors mounted on Counterweight
Travel Alarm

BUILDING A STRONG CASE.

Since 1842, at CASE Construction Equipment we have lived by an unwavering commitment to build practical, intuitive solutions that deliver both efficiency and productivity.

We continually strive to make it easier for our customers to implement emerging technologies and new compliance mandates.

Today, our global scale combined with our local expertise enables us to keep customers' real-world challenges at the center of our product development.

The vast CASE dealers' network is always ready to support and protect your investment and exceed your expectations, while also providing you with the ultimate ownership experience.

Our goal is to build both stronger machines—and stronger communities. At the end of the day, we do what's right for our customers and our communities so that they can count on CASE.

CaseCE.com

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 Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes. DISCLAIMER: ±2.5% variation on parameters may occur and is acceptable by the industry norms.

Conforms to directive 2006/42/EC

