EXPERTS FOR THE REAL WORLD
SINCE 1842

CASE CONSTRUCTION

HYDRAULIC EXCAVATOR

CX210C / CX220C LC



QUALITY
YOU CAN TRUST

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 continous research of perfection of a legendary brand. CASE is synonymous and reference in the market for its fastest cycles times, best energy saving performance and smooth control.

HIGH EFFICIENCY

Up to 4% more fuel efficiency due to hydraulic system control and 6% better efficiency from CASE by FPT engine.
5 energy saving controls & ECO gauge function enable the continuous monitoring of the fuel consumption.



HIGH RELIABILITY

Robust design.
Increased plate thickness on HD structures and HD attachments to improve durability.
Lower cost of ownership.
With the CASE World Class Manufacturing.

COMFORT AND SAFETY

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

OUTSTANDING VISIBILITY

Safe and fast operations.
More comfort.
With wider glazed area.

FAST CYCLES

Higher breakout force.
Continuous operations.
Up to 10% higher digging capability.
With A/H/SP working modes and Auto Power boost.

HIGH VERSATILITY

The perfect machine
for every application.
With 3 available power modes and 10 auxiliary hydraulic settings.



LOW TOTAL COST OF OWNERSHIP

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

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 contentiously dialogue with the Engine Control Unit in order to optimize machine output at any moment in any condition.



HIGH EFFICIENCY

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

- **Automatic Economy control (AEC)**: improving fuel efficiency by drop in engine rpm when the joystick is 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 joystick inactivity;
    - **Idle Shutdown**: shuts the engine down after a pre-set time.
    - **Regenerative**: hydraulic circuit for boom, arm & bucket operations for better productivity.

The CX210C/CX220C LC model is powered by **fuel efficient CASE by FPT (Fiat PowerTrain) Engine**, designed to boost machine performances and optimize fuel economy.
The 6 cylinders CASE by FPT engine **delivers** outstanding power and torque, that reduces the transient time making the hydraulic system immediately reactive to any 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 utilized.



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HIGH RELIABILITY

Accurate, robust and simple design for high durability.

- The CX210C/CX220C delivers leading design solutions.
- Boom & Arm plate thickness increased by 33% and upper-structure has been reinforced in all area with higher stress to increase the 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 bottom side.
- The bucket linkage has a fortified structure and reduced tolerances for increased 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 to protect from stones.
- Larger pin diameter to reduce contact surface pressure and increase component life.
- Travel motor case frame with thicker plate for better durability.
- Recoil spring increase stroke for better cushion performance.
- Track guards to keep chain on rollers in any condition.



COMFORT AND SAFETY

- Superior wide & roomy cab with ample legroom, More secure & safe working environment.
- Ergonomically designed seat with 8 different adjustments enhances operator comfort and hence productivity.
- Vibration dampening protects against whole body fatigue for all day productivity.
- Openable roof window to give better visibility on top.
- Fully adjustable right hand console includes advanced engine throttle control, that determines working mode selection. The console is equipped with a luminosity switches to ensure that the graphics are clear and easily readable in bright sunlight.
- New cab has thinner pillars and wide glass areas, including one piece window on right hand side, for improved visibility all round. Longer seat slides, a fully reclining seat and foot space, and air conditioning with 8 outlet vents ensure that any operator can stay comfortable throughout the working day. A clock is included. Storage is provided, with a large box behind the driver's seat and bottle or can holders on front right side.
- Radio's slot, speakers and antenna as standard for an easy radio add on.
- Telematic's predisposition for an easy plug in.





OUTSTANDING VISIBILITY

- Wider glazed surface with two pieces door's window.
- Improved front, top and side visibility - Openable roof window to give better visibility on top.
- New 7" LED cluster to constantly monitor the main machine parameters.





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FAST CYCLES

The advanced hydraulic system offers 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. The electronic management of speed and power lowers fuel consumption and offers considerable productivity benefits in terms of outputs.

HIGH VERSATILITY

3 power modes to match any customer need:

- A AUTO: for normal digging, grading, lifting and precision work. Power Boost always engaged.
- H HEAVY: for heavy operations always granting the best balance between productivity and fuel economy. Power Boost automatically engaged.
- SP SUPER POWER: 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 among different attachments with no need of any mechanical adjustment.

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.
- Battery disconnect switch accessible from ground while servicing the machine.
- Radiator and cooler are mounted side by side for more efficient cooling and easy access for cleaning.
- Machine can be supplied suitable for Tropical climate (from -15°C to +50°C) or Super Tropical climate (from -15°C to +55°C)
- Optional refueling pump with auto cut off reduces downtime for regular fills.





ENGINE

Model _____ CASE by FPT F4HE0687A*J
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 x211 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

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) (CX210C / CX220C LC) __ 7/8
Number of shoes (each side) (CX210C / CX220C LC) _____ 46/49
Type of shoe_____ Triple grouser shoe

CAPACITIES

Fuel tank (l) _____458
Hydraulic system (l)_____295
Cooling system (l) _____ 25
Engine Crank Case (l) _____ 16.5
Hydraulic Tank capacity (l) _____162

WEIGHT AND GROUND PRESSURE

2.94 m arm, 1.0 m^3 GP bucket, 600mm with triple track guard, operator, lubricant, coolant and full fuel tank

	CX210C	CX220C LC
Operating Mass	21,725 Kg	22,345 Kg
Ground Pressure	0.049 MPa	0.046 MPa

2.94 m arm, 1.0 m^3 GP bucket, 800mm with triple track guard, operator, lubricant, coolant and full fuel tank

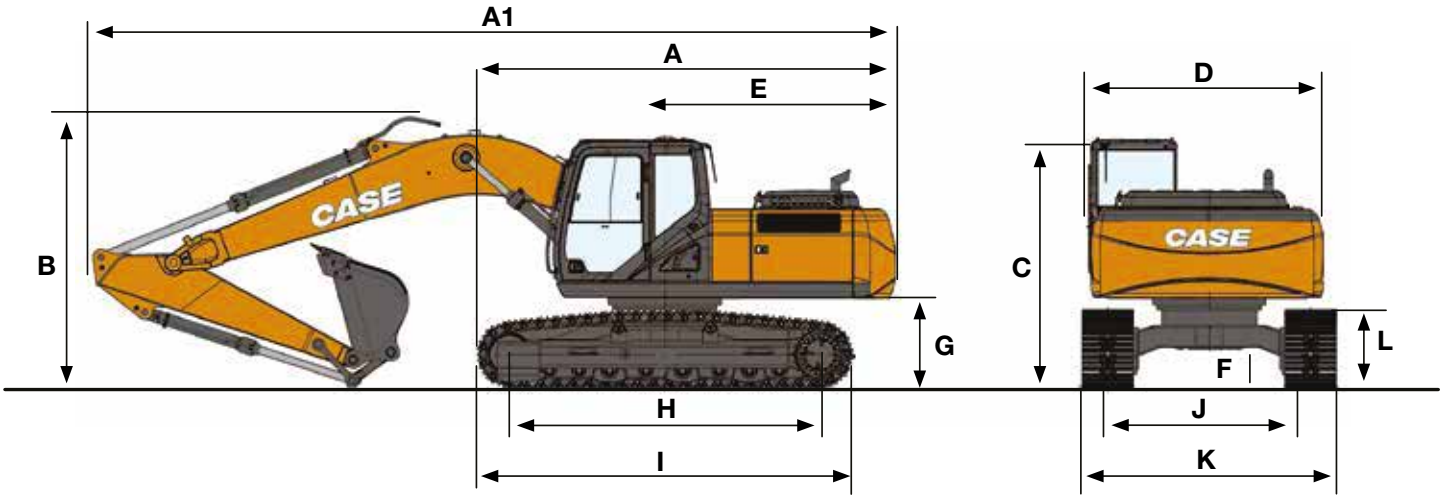
	CX210C	CX220C LC
Operating Mass	22,230 Kg	22,875 Kg
Ground Pressure	0.037 MPa	0.036 MPa

2.4 m arm, 1.1 m^3 GP bucket, 600mm with triple track guard, operator, lubricant, coolant and full fuel tank

	CX210C	CX220C LC
Operating Mass	21,600 Kg	22,220 Kg
Ground Pressure	0.048 MPa	0.046 MPa

BUCKET SELECTION GUIDE

Part Number	Bucket Cap (CuM)	Type	Application	Material Handled	(Density upto in T/ CuM) - eg		CX210C			CX220C LC		
							1.90m Arm	2.40m Arm	2.94m Arm	1.90m Arm	2.40m Arm	2.94m Arm
481256008	1.00	GP	General	Earthwork	A	1.80	A	B	B	A	A	B
461852008	1.10	GP	Light Duty	Dry, Loose soil	B	1.60	B	C	C	B	C	C
488214008	0.90	HD ROCK	Heavy Duty	Granite/ Marble	C	1.40	A	A	B	A	A	B
488228008	0.94	HD	Heavy Duty	Stone Rubble	X	N/A	A	A	B	A	A	B

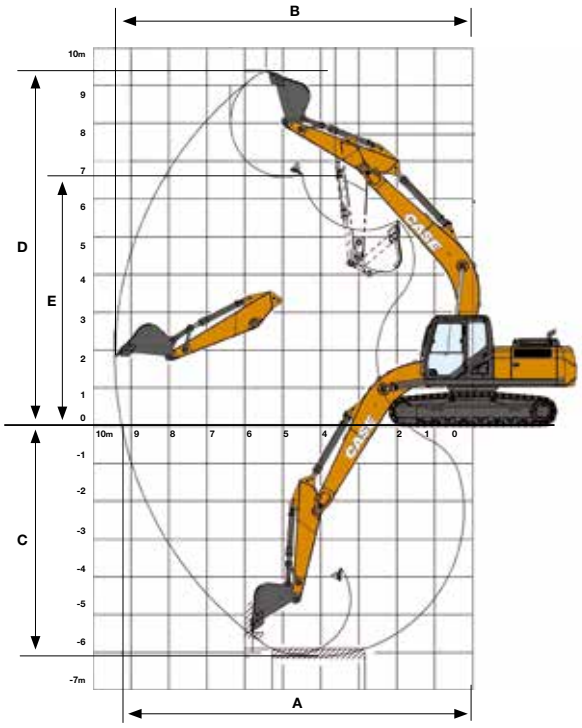


GENERAL DIMENSIONS

			CX210C			CX220C LC		
			Arm 2.94 m	Arm 2.40 m	Arm 1.90 m	Arm 2.94 m	Arm 2.40 m	Arm 1.90 m
A	Overall length (without attachment)	mm	4840	4840	4840	4985	4985	4985
A1	Overall length (with attachment)	mm	9430	9510	9520	9430	9510	9520
B	Overall height (with attachment)	mm	2980	3198	3008	2980	3198	3008
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

			CX210C			CX220C LC		
			Arm 2.94 m	Arm 2.40 m	Arm 1.90 m	Arm 2.94 m	Arm 2.40 m	Arm 1.90 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	9730	9240	8770	9730	9240	8770
B	Maximum reach	mm	9870	9380	8910	9870	9380	8910
C	Max. digging depth	mm	6650	6110	5610	6650	6110	5610
D	Max. digging height	mm	9610	9410	9140	9610	9410	9140
E	Max. dumping height	mm	6810	6590	6330	6810	6590	6330
	Arm digging force with auto power up, ISO	kN	110	132	152	110	132	152
	Bucket digging force with auto power up, ISO	kN	152	152	152	152	152	152



LIFTING CAPACITY

CX220C LC, ARM 1.90 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

Front / 360°	REACH										
	0.0 m		4.5 m		6.0 m		7.5 m		At max reach		
											m
7.5 m									5540*	5540*	4,9
6.0 m					5250*	4460			5270*	4130	6,2
4.5 m			6910*	6910*	5610*	4340			5280*	3250	7,0
3.0 m			8640*	6610	6330*	4200			4800	2850	7,4
1,5 m			9860*	6160	6760	4000	4640	2730	4640	2730	7,5
0 m			10140*	6030	6630	3880			4840	2840	7,3
-1,5 m			9710*	6080	6630	3880			5530	3260	6,7
-3.0 m			8410*	6270					6190	4330	5,7
-4.5 m											

CX220C LC, ARM 2.40 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

7.5 m									4820*	4820*	5,6
6.0 m					4650*	4530			4640*	3520	6,8
4.5 m			6200*	6200*	5130*	4410	4580*	2830	4570*	2830	7,5
3.0 m			7950*	6710	5920*	4190	4700	2780	4280	2500	7,9
1,5 m			9410*	6200	6680*	3960	4600	2690	4140	2400	8,0
0 m			10020*	5970	6560	3810	4530	2630	4290	2480	7,8
-1,5 m			9860*	5950	6510	3770			4810	2800	7,2
-3.0 m			8900*	6090	6330*	3860			5770*	3570	6,3
-4.5 m			6280*	6280*					5650*	5650*	4,8

CX220C LC, ARM 2.94 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

7.5 m					3980*	3980*			3080*	3080*	6,2
6.0 m					4060*	4060*			2840*	2840*	7,3
4.5 m					4600*	4450	4240*	2860	2820*	2450	8,0
3.0 m			7170*	6810	5430*	4200	4610*	2760	2930*	2180	8,4
1,5 m			8810*	6230	6290*	3930	4560	2640	3200*	2080	8,5
0 m			9730*	5900	6490	3730	4460	2550	3670*	2130	8,3
-1,5 m			9860*	5800	6400	3650	4430	2520	4190	2380	7,8
-3.0 m			9230*	5880	6440	3690			5120	2950	6,9
-4.5 m			7430*	6140					5470*	4410	5,6

CX220C LC, ARM 2.94 M, GP BUCKET 1.10M³ (868 KG), SHOES 800 MM

7.5 m					3980*	3980*			3080*	3080*	6,2
6.0 m					4060*	4060*			2840*	2840*	7,3
4.5 m					4600*	4550	4240*	2940	2820*	2530	8,0
3.0 m			7170*	6970	5430*	4300	4610*	2850	2930*	2250	8,4
1,5 m			8810*	6390	6290*	4030	4700	2730	3200*	2150	8,5
0 m			9730*	6050	6670	3840	4590	2630	3670*	2210	8,3
-1,5 m			9860*	5960	6570	3760	4590	2600	4320	2640	7,8
-3.0 m			9230*	6040	6620	3800			5270	3040	6,9
-4.5 m			7430*	6300					5470*	4530	5,6

CX210C, ARM 1.90 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

7.5 m									5540*	5540*	4,9
6.0 m					5250*	3950			5270*	3650	6,2
4.5 m			6910*	6390	5610*	3890			4690	2850	7,0
3.0 m			8640*	5810	6060	3700			4160	2490	7,4
1,5 m			9310	5380	5840	3500	4020	2370	4010	2370	7,5
0 m			9150	5250	5720	3390			4180	2470	7,3
-1,5 m			9210	5300	5720	3390			4780	2840	6,7
-3.0 m			8410*	5480					6200	3800	5,7
-4.5 m											

CX210C, ARM 2.40 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

7.5 m									4820*	4570	5,6
6.0 m					4650*	4020			4640*	3100	6,8
4.5 m			6200*	6200*	5130*	3900	4120	2470	4120	2460	7,5
3.0 m			7950*	5910	5920*	3680	4070	2420	3700	2160	7,9
1,5 m			9360	5410	5810	3460	3980	2330	3560	2060	8,0
0 m			9100	5190	5650	3310	3910	2270	3690	2130	7,8
-1,5 m			9080	5170	5600	3270			4150	2420	7,2
-3.0 m			8900*	5300	5700	3360			5260	3110	6,3
-4.5 m			6280*	5640					5650*	5140	4,8

QUALITY
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CX210C, ARM 2.94 M, GP BUCKET 1.10M³ (868 KG), SHOES 600 MM

Front / 360°	REACH 0.0 m		4.5 m		6.0 m		7.5 m		At max reach		m
7.5 m					3980*	3980*			3080*	3080*	6,2
6.0 m					4060*	4060*			2840*	2630	7,3
4.5 m					4600*	3940	4170	2500	2820*	2120	8,0
3.0 m			7170*	6010	5430*	3690	4060	2400	2930*	1860	8,4
1,5 m			8810*	5440	5790	3430	3930	2280	3150	1770	8,5
0 m			9030	5110	5570	3240	3830	2190	3240	1820	8,3
-1,5 m			8930	5030	5480	3150	3800	2160	3590	2030	7,8
-3.0 m			9020	5100	5530	3200			4410	2550	6,9
-4.5 m			7430*	5350					5470*	3850	5,6

CX210C, ARM 2.94 M, GP BUCKET 1.10M³ (868 KG), SHOES 800 MM

7.5 m					3980*	3980*			3080*	3080*	6,2
6.0 m					4060*	4060*			2840*	2700	7,3
4.5 m					4600*	4030	4240*	2570	2820*	2190	8,0
3.0 m			7170*	6140	5430*	3780	4180	2470	2930*	1930	8,4
1,5 m			8810*	5570	5940	3520	4050	2350	3200*	1830	8,5
0 m			9270	5250	5730	3330	3950	2260	3350	1880	8,3
-1,5 m			9160	5160	5640	3250	3920	2230	3700	2100	7,8
-3.0 m			9230*	5240	5680	3290			4540	2630	6,9
-4.5 m			7430*	5490					5470*	3950	5,6

STANDARD EQUIPMENT

ENGINE
Super Tropical package for temperatures -15°C +55°C
Turbocharger with air cooled intercooler
Double element air cleaner
Air-pre cleaner - cup type
Pre fuel filter
Fuel filter w/ water separator
Automatic/manual engine return to idle
Neutral safety start
Emergency stop
Dial type throttle control

HYDRAULIC SYSTEM
2 variable flow piston pumps
Auto/Heavy/Super Power working modes
Auto power boost
Swing priority (swing+arm)
Travel speed change
Selectable working modes
Pre-set auxiliary pump settings
ISO pattern controls
Arm and boom regeneration
Straight travel valve
100% return oil filtration

CAB AND OPERATOR COMPARTMENT
Pre-disposal for the optional cab protection
Pressurized cab heat and defrost functions
Tilting consoles - 4-position
Low-effort controls
Sliding cockpit
Mechanical suspended seat
Arm rest
Sun shade
Color LCD monitor display
Auxiliary select system
Aux-in port for personal electronics (12v)
Rubberfloormat
One-piece right hand window
Two piece door window
Roof top openable metal window
Windshield wiper / washer
Storage compartments
Anti-theft device
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

EQUIPMENT AND UNDERCARRIAGE
HD 5,7 meter boom
Two lights on cabin top
One light on tool box
HD Bucket linkage
Refuel pump
Tool box
Sealed and lubricated tracks
Single track guide
600mm triple grouser steel shoes
Rear mirror (mounted on tool box)
One light on Boom foot
Lower under cover

OPTIONAL EQUIPMENT

CAB AND OPERATOR COMPARTMENT
Case telematics
Air suspended seat
Cabin Fan
Tropical package for temperatures -15°C +50°C
Cold Package for temperatures -25°C +45°C
Warm up mode

EQUIPMENT AND UNDERCARRIAGE
Arm 1.90m
Arm 2.40m
Arm 2.94m
Bucket linkage
Bucket 0.9 Cum HD with side cutter
Bucket 0.9 Cum GP
Bucket 0.94 Cum HD
Bucket 1.0 Cum GP
Bucket 1.1 Cum GP
800mm triple grouser steel shoes
Triple track guide
Auxiliary single acting circuit
Auxiliary single or High flow circuit
Upper front screen (mesh type)
Air-pre cleaner - cyclone type
Side cutter for GP bucket
Boom mounted work light (70 watt)

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.

Conforms to directive 2006/42/EC

creative-farm 11/26