

CX D-SERIES HYDRAULIC EXCAVATORS
CX85D SR / CX90D MSR
STAGE V

CASE

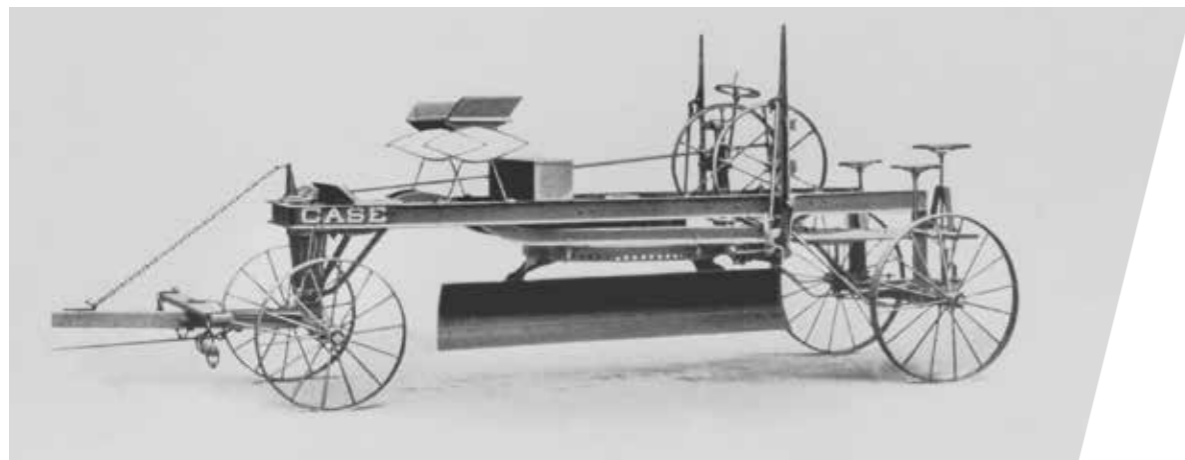
CONSTRUCTION



IT'S TIME
FOR MORE

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EXPERTS FOR THE REAL WORLD
SINCE 1842

ME
PLANT HIRE



**NEW STAGE V ENGINE:
THE MOST POWERFUL IN THE SEGMENT**

20% more power (kw); 45% greater displacement; 56% more torque

The new STAGE V engine is a highly reliable 4-cylinder 68 HP Yanmar engine, widely used in the market. It is the most powerful in the segment and meets the latest EU emissions standards that set a new limit for particle number (PN) and reduce further particulate matter (PM) levels.

More energy savings and more power with less fuel

The new YANMAR engine works effortlessly and provides better support for the pump with higher torque even against high load pressure: the engine is less overloaded and uses less fuel (-4.5% in SP mode and -3.2% in H mode) confirming the best in class speed.



**EXPERTS FOR THE REAL WORLD
SINCE 1842**

- 1842** CASE is founded.
- 1869** The first CASE portable steam engine - road construction is born.
- 1957** The first factory - integrated loader/backhoe in the world: a Case industry first.
- 1969** CASE begins skid steer loader production.
- 1992** Sumitomo becomes supplier to CASE Corporation distributing excavators ranging from 7 to 80 tons.
- 1998** Global Alliance signed between CASE Corporation and Sumitomo.
- 2001** CASE introduces the first of its CX excavators, powerful new "thinking machines," designed to enhance productivity through onboard intelligence features.
- 2007** CX210B is awarded the "Good Design Award" by the design Academy of Japan.
- 2013** CASE introduces the brand new CX-C Series Midis and Excavators,

powerful new "thinking machines", designed to enhance productivity through onboard intelligence features.

2015 CASE launches the new "D series" Tier 4 final/ EU Stage IV Crawler Excavators.

2018 Stage V production for models for new MIDI CX85D, CX90D and CX350D and above.

Noise perception improvement

The frequencies generated by the more generous Yanmar engine are more pleasing to the operators' ears.

The inside cabin (69 dB) remains:

BEST in class across all competitors!

Auto cleaning DPF with no impact on daily working time

To meet Stage V regulations, a new regenerating after-treatment system has been added to collect and burn Particulate Matter, preventing their release in the atmosphere. The system is self cleaning and autoregenerating through oxidation (increasing post combustion), and manages and controls the high-pressure fuel injection. It is all done automatically without any intervention from the operator, who can carry on working without interruption. The operator can check the PM accumulation status on the monitor, and can access even the percentage detail of PM and ashes on the service menu.



**BOOM TYPES
FOR EVERY NEED**

Offset boom version on CX85D:

It increases the working area without repositioning the machine. Comfortable side digging due to excellent view of the bucket or attachment at work. The minimum working distance allows for operations in very tight spaces.

Mono boom version on CX85D:

It can work in as little as 2920 mm (1630 mm front swing + 1290 mm tail swing). The same mono boom design of larger excavators provides outstanding robustness and reliability.

Swing boom version on CX90D

Excellent manoeuvrability and maximum reach. The generous swing angles (left 80° ; right 45°) combined with excellent visibility in every direction contribute to a great productivity.



**IMPRESSIVE SPEED AND
LESS CONSUMPTION**

High performance hydraulics

The new CASE D Series midi excavator delivers best-in-class speed with lower fuel consumption. It achieves this performance through a better balance between the various components (engine, pump) and the Pump Transition Reduction Control (PTC) adopted from the higher class CASE excavators. This extremely accurate system continuously monitors the machine's operations and decreases pump loads whenever possible, adapting to the task at hand. As a result, hydraulic power is available on demand, the pump and engine are less overloaded, and fuel consumption is minimised.



**BEST IN CLASS
LIFTING CAPACITY**

Both CX85D and CX90D have the greatest lifting capacity in the industry. The CX85D lifts 1700 Kg (@4 m reach, 0 cm from the ground, BLADE UP); The CX90D lifts 1800 kg (@4 m reach, 0 cm from the ground, BLADE UP) according to ISO standards.



**TOP CLASS
BREAKOUT FORCE**

The perfect balance between engine, pump, booms and undercarriage result in an impressive digging performance:
- bucket digging force: 56.9 kN
- arm digging force: 39.5 kN



**HYDRAULICS SOURCED FROM
BIGGER CASE EXCAVATORS**

Three different working modes (SP, H, Auto) add more fuel savings without compromising on performance just like the higher range models of CASE heavy excavators.

- A** **AUTO MODE**
- H** **HEAVY MODE**
- SP** **SPEED PRIORITY MODE**

A-MODE is best suited to grading, lifting and precision work.

H-MODE delivers the best balance between productivity and fuel economy.

SP-MODE provides extra speed and power for the most demanding jobs that require maximum productivity.

		CX85D SR	CX90D MSR
MONO BOOM	Short Arm	1.69 m	-
	Long Arm	2.19 m	-
OFFSET BOOM	Short arm	1.75 m	-
	Long Arm	2.10 m	-
SWING BOOM	Short arm	-	1.69 m
	Long Arm	-	2.19 m

SAFETY WITHOUT COMPROMISE



THE CAB OF A LARGE EXCAVATOR

Everything in front of your eyes

Extraordinary all-round view

The large cab with its huge glazed area provides outstanding visibility all round and on to the bucket or attachment allowing easier and safer operations.

Work safely in tight spaces

The short tail and front swing radius design make D-Series mid size excavators the best solution to work efficiently in confined spaces. The compact design minimises disruption in urban and road jobsites, as well as the possibility of hitting something when swinging the upper structure of the machine. The swing cylinder and door are well protected.

The smooth and rounded design of the CASE D series MIDI cab was developed to deliver maximum reliability and functionality. The CX85D SR can work in a space less than 3 meters wide!



COMFORTABLE AND SAFE CAB

Built for long working hours

Exceptionally spacious

The D Series Midi excavator features the same cab as the larger SR models, which means: front space (from front glass to seat back) 1115 mm; access space (from front glass to console end) 580 mm; foot space (from front glass to seat) 640 mm.

Comfort and durability. Best-in-class cabin noise level

The cabin has the distinctive CASE DNA of comfort and durability. The 4-point fluid mounting system effectively absorbs impacts and vibration, providing a smooth ride and best-in-class low noise levels inside the cab. The structure of the cab, with its square section pillars, contributes to its robustness and durability. New heated seat and lumbar support options are now available.

Safety first

The cab of D Series midi excavators meets ROPS and FOPS Level 1 safety standards. FOPS Level 2 and stone guard protections are also available as options. A remote emergency stop is located on the left side of the cabin floor for easy access also from outside the cab.



NEW MONITOR: THE SAME AS A 50-TONNE CASE EXCAVATOR!

More features

The new 7" color LCD monitor features a new design, better readability with higher contrast, and 5 additional menus - just like a 50-tonne CASE excavator! Live key parameters are now available, with readings on rpm, pumps, battery tension, consumption per hour and per week, cumulated litres, residual time for engine cooling, engine hours, travelling time, rotation, operation, real working time, hammer time utilisation and much more.

Every machine is equipped with the efficient automatic A/C, which creates a pleasant climate inside the cab with its 6-vent system combined with a high wind flow of 430 m³/s.

Proportional controls of the first and second auxiliary circuits can be ordered as optional for maximum controllability and comfort, when the machine is used with hydraulic powered attachments.

CASE MAXIMUM VIEW MONITOR

The optional monitor offers a bird's eye and panoramic view, and improves the operator's safety with:

- 270° vision.
- 3 cameras, 7-inch full color monitor, blind spots eliminated by image processing.
- LED lights package option for increased visibility in low light conditions.



Round view camera: more safety on the jobsite



Full-color 7" LCD cluster: 270° bird view



Quick coupler switch



New radio design



Quick coupler provision option



SAFE AND EASY MAINTENANCE

The hydraulic system, filters, engine and radiators can easily be reached from ground level, allowing intuitive, safe and fast maintenance operations. The cooling system has been improved and optimized to simplify maintenance. The battery switch is easier to use and to reach.

Convenient access from the cab

The A/C internal recirculation filter and the fuse box are easily accessible from inside the cab.

Simplified diagnostics

The built-in monitor system includes a self-diagnosis system that alerts the operator in case of clogged air, oil or hydraulic filters, and provides maintenance reminders with information on the remaining hours of operation until due, preventing damage to the machine.

New fuel filter supply line

A new sensor on the main fuel pre-filter water separator alerts the operator with a dedicated message on the machine's monitor when the water level is too high and it needs to be drained. An additional (maintenance free) safety filter protects the engine from dust, so there is no need to flush after replacing the filter.

NEW OIL SAMPLING PORTS

for engine and hydraulic oil.

CASE EASY MAINTENANCE SYSTEM (EMS)

Uses stratified bushing and plated pins on the pivot points, which holds grease longer, increases lubrication intervals and prevents rattling:

- greasing interval for all pivot points (bucket excluded) : 1000 hrs
- greasing bucket interval: 200 hrs

NEW QUICK COUPLER PROVISION

available as option

MAIN REASONS TO CHOOSE THE CX D-SERIES HYDRAULIC EXCAVATORS



GREEN PERFORMANCE

- New STAGE V engine, the most powerful in this segment!
- Self-cleaning and auto-regenerating DPF filter



HIGH PRODUCTIVITY AND VERSATILITY

- Outstanding controllability
- Best-in-class speed
- NEW** - 5% lower fuel consumption
- Good versatility with 3 boom types.
- Best lifting capacity in the industry.



NEW FUEL FILTER SUPPLY LINE

- new main fuel pre filter water separator sensor linked to a dedicated message on the monitor.
- additional final safety filter (maintenance free) to protect the engine: no need to flush after filter replacement.



OUTSTANDING COMFORTABLE CABIN WITH NEW MONITOR AND OPTIONS

- The same cabin as a CASE higher class SR excavator!
- The same monitor as a 50-tonne CASE excavator.
- Air-Suspension seat w/ tiltable and heater options
- Quick Coupler provision available
- Oil sample port option
- New remote emergency stop button



TOP LEVEL SAFETY

- ROPS and FOPS level 1 standard
- FOPS level 2 option
- NEW** - CASE maximum view monitor option with its bird's eye and 270° panoramic view.
- NEW** - LED lights package option for increased visibility in low light conditions.





THE SCIENCE BIT

The CASE SiteWatch telematics system uses a high-tech control unit mounted on each machine to collate information from that machine and from GPS satellites. This data is then sent wirelessly through the mobile communication networks to the CASE Telematics Web Portal.

SiteWatch: centralised fleet control benefits at your fingertips

Measure your true asset availability and optimise it

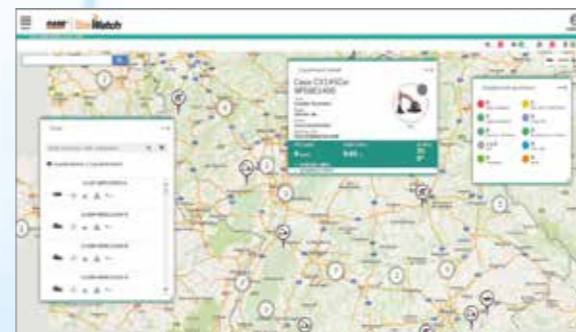
- Eliminate the “phantom fleet”: SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward Maintenance Planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch 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 choose the right equipment.
- Save on transport costs with planned and grouped maintenance tasks.
- Peace of mind, optimised uptime and lower repair costs: with preventive maintenance you can for example be alerted if the engine needs to be serviced and avoid a disruptive breakdown.
- Be able to compare your asset Return On Investment on different sites.
- Your equipment is used only during working hours. You can set up alerts so that you know if it is in use during the weekend or at night.
- Integrate with the programmed maintenance package, so that you can be sure every machine is at the right place at the right time.

More Safety, Lower Insurance Premium

- Keep thieves away: dissuade them from attacking your asset because it is geo-localised. SiteWatch is hidden so that thieves can't find it quickly.
- Your fleet is used only where you decide. You can define a virtual fence and receive an email when a machine exits that perimeter.



STANDARD EQUIPMENT

ENGINE

- Stage V, Yanmar engine, 50.7 kW, 3318 cc
- Water-cooled, 4-stroke diesel, 4-cylinders in line
- High capacity fuel tank: 120 l
- Auto-idle and one-touch idle
- Idle shutdown system
- Cooled Exhaust Gas Recirculation (CEGR)
- Electronic fuel injection
- High pressure common rail system
- Auto-engine warm up
- Emergency stop
- Glow-plug pre-heat
- EPF (Engine Protection Feature)
- Dual-stage fuel filtration with water separator message in cabin
- Fuel final safety filter
- Dual element air filter
- Remote oil filter
- Green plug oil drain

- 24-Volt system
- Battery disconnect switch
- Fuel cooler
- Fuel filter restriction indicator
- Fuel shut-off valve

TRANSMISSION

- Two-speed hydrostatic transmission, with variable displacement axial piston motor and automatic travel speed shifting
- Mechanical disc brakes in oil bath
- Final drive with planetary gear reduction in oil bath

HYDRAULIC SYSTEM

- Open-center system, two variable displacement axial piston pumps with regulating system for fast cycles and simultaneous movements + 1 independent gear pump for

- dozer blade operations
- Attachment cushion control
- 3 operating modes (auto, heavy, speed priority)
- Auto power boost

UNDERCARRIAGE

- 450 mm steel tracks
- 450 mm dozer blade
- 4-lashing points for easy transport
- Step on undercarriage for safe cab access

OPERATOR STATION

- Pressurised cab
- ROPS & FOPS Level 1
- Tempered safety glass for all windows
- One-touch lock front window
- Windshield wiper & washer
- Multifunction LED color monitor (180 mm)
- Rear view camera

- Side view camera
- Automatic climate control
- Fully adjustable mechanical suspension seat
- Interior dome light
- Sliding seat – 90 mm
- Adjustable armrests
- Sliding cockpit 180 mm
- Cup holder
- 1 working light on boom
- 1 working light on cab top
- 1 on the left side of the UC
- Anti-theft system (start code system)
- Rubber floor mat
- 12-volt electric socket
- 24-volt cigarette lighter
- Roof window w/sunshade

ARMS AND BOOMS

- CX85D, CX90D 1.69 m arm
- CX85D OFFSET 1.75 m arm
- Heavy duty bucket linkage

OPTIONAL EQUIPMENT

UPPERCARRIAGE

	CX85D SR MONOBOOM	CX85D SR OFFSET BOOM	CX90D MSR SWING BOOM
FOPS Level 2	X	STD	X
Arm 2.19 m (mono boom)	X	N.A.	X
Arm 2.10 m (offset boom)	N.A.	X	N.A.
Front stone guard (opg level 2)	X	X	X
Front mesh guard	X	X	X
HD type w/ lifting eye, mandatory with HBCV	X	X	X

UNDERCARRIAGE

450 mm rubber tracks	X	X	X
450 mm rubber link tracks	X	X	X
600 mm steel tracks	X	X	X

OPERATOR STATION

Electric refuel pump	X	X	X
Radio fm/am	X	X	X
Air-Suspension seat	X	X	X
Air-Suspension seat w/ tiltable and heater function	X	X	X
CASE maximum view monitor incl. 3 cameras (rear, right and left)	X	X	X

HYDRAULIC SYSTEM

Boom and arm safety valve & warning device for safe lifting operations	X	X	X
Bucket or clamshell circuit	X	X	X
Low flow - electrical proportional control	X	N.A.	X
Hammer circuit hydraulic control (Mono boom - pedal control)	X	N.A.	X
Hammer circuit electrical proportional control (Mono boom - joystick control)	X	N.A.	X
Hammer/high flow circuit electrical proportional control (Mono boom - bi directional oil flow)	X	N.A.	X
Hammer circuit hydraulic control (Offset boom - pedal control)	N.A.	X	N.A.
Hammer circuit electrical proportional control (Offset boom - joystick control)	N.A.	X	N.A.
Double act circuit electrical proportional control (Offset boom - bi directional oil flow)	N.A.	X	N.A.
Engine/hyd. Oil sampling port	X	X	X
Quick coupler provision	X	N.A.	X

OTHER OPTIONAL EQUIPMENT

Site Watch Telematics	X	X	X
Spark Arrester system	X	X	X

Standard and optional equipment shown can vary by country.

CX D-SERIES

CX85D SR - CX90D MSR

CX85D SR

SPECIFICATIONS

SPECIFICATIONS

ENGINE

Model _____ YANMAR 4TNV98CT-L2WSH
 Emission level _____ REG. EU 2016/1628 STAGE V
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line, high pressure common rail system (electric control), Turbocharger, ATS
 Displacement _____ 3.318 l
 Bore x stroke _____ 98 mm x 110 mm
Rated net power
 ISO 9249 _____ 50.7 kW at 2000 min⁻¹
Maximum torque
 ISO 9249 _____ 283 N-m at 1300 min⁻¹

HYDRAULIC SYSTEM

Main pumps _____ 2 variable displacement axial piston pumps with regulating system
 Max. oil flow _____ 2 x 74 liter/min at 2000 min⁻¹
Circuit working pressure
 Boom/Arm/Bucket _____ 29.4 MPa
 Offset (CX85D SR only) _____ 29.4 MPa
 Swing _____ 24.0 MPa
 Travel _____ 29.4 MPa
Pilot pump (1 gear pump)
 Max. oil flow _____ 18 l/min at 2000 min⁻¹
 Circuit working pressure _____ 3.9 MPa
Blade pump (1 gear pump)
 Max. oil flow _____ 35.4 l/min at 2000 min⁻¹
 Circuit working pressure _____ 23.5 MPa

SWING

Swing Motor _____ Fixed displacement axial piston motor
 Maximum swing speed _____ 10.4 min⁻¹
 Swing torque _____ 17,000 Nm

WEIGHT AND GROUND PRESSURE

CX85D SR OFFSET BOOM

with 1.75 m arm, 0.32 m³ general purpose bucket, 450 mm grouser shoe, FOPS Level II guard, operator, lubricant, coolant and full fuel tank.

Operating mass	Ground pressure
8,490 kg	0.038 MPa

CX85D SR MONOBOOM

with 1.69 m arm, 0.32 m³ General Purpose Bucket, 450 mm grouser shoe, operator, lubricant, coolant and full fuel tank

Operating mass	Ground pressure
7,930 kg	0.036 MPa

Counterweight 930 kg

FILTERS

Suction filter _____ 105 µm
 Return filter _____ 6 µm
 Pilot line filter _____ 8 µm

ELECTRICAL SYSTEM

Voltage _____ 24 V
 Alternator _____ 60 Amp
 Starter _____ 24 V 3.2 kW
 Battery _____ 2X12V 64 Ah/5 HR

UNDERCARRIAGE

Travel motor _____ Variable displacement axial piston motor
 Low travel speed _____ 3.2 km/h
 High travel speed _____ 5.1 km/h
 Drawbar pull (CX85D SR) _____ 59.3 kN
 Drawbar pull (CX90D MSR) _____ 59.1 kN
 Number of carrier rollers (each side) _____ 1
 Number of track rollers (each side) _____ 5
 Number of shoes (each side) _____ 39
 Type of shoes _____ Triple grouser shoes
 Grade ability _____ 70 % (35°)

SOUND LEVEL

External guaranteed sound power level
 (EU Directive 2000/14/EC) _____ LwA 98 dB(A)
 Operator cab sound pressure level (ISO 6396) _____ LpA 69 dB(A)

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank _____ 120 l
 Hydraulic system _____ 96.3 l
 Hydraulic tank _____ 51 l
 Cooling system _____ 12.2 l

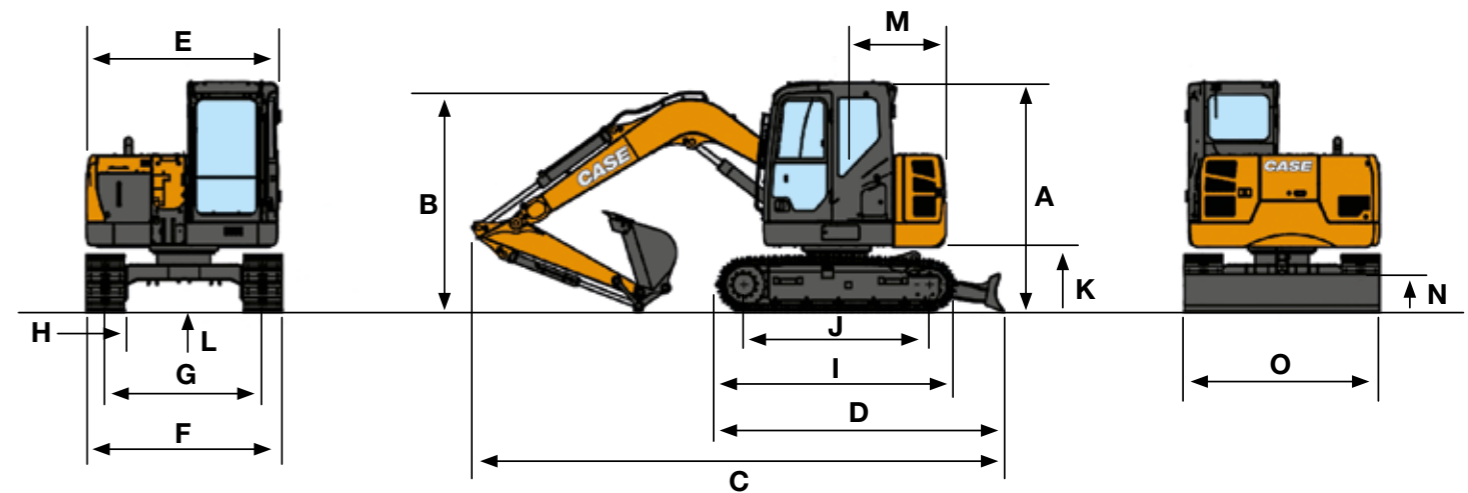
CX90D MSR

with 1.69 m arm, 0.32 m³ general purpose bucket, 450 mm grouser shoe, operator, lubricant, coolant and full fuel tank.

Operating mass	Ground pressure
8630 kg	0.039 MPa

Counterweight 1060 kg

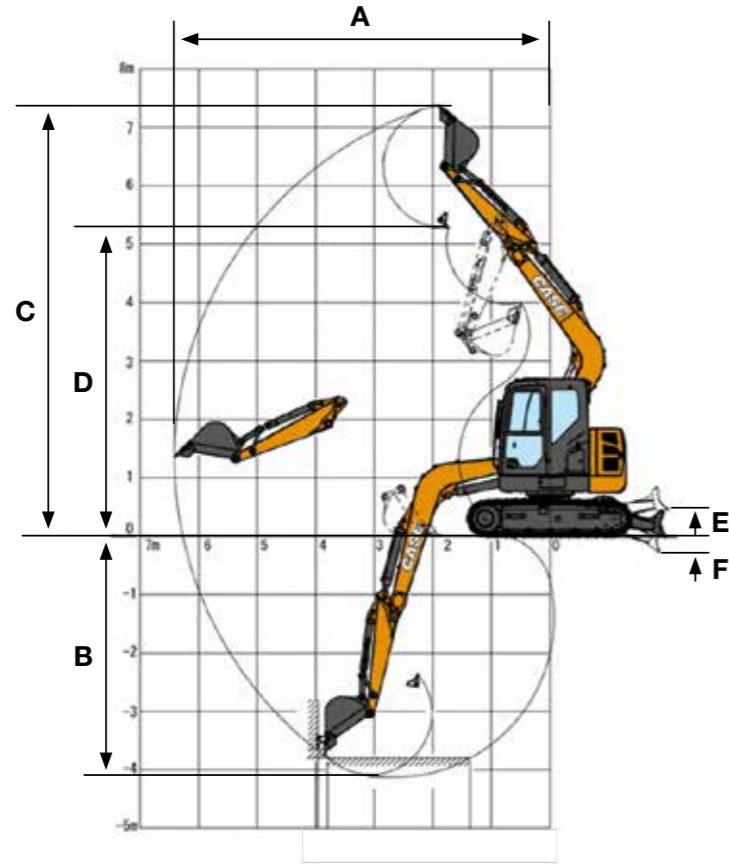
GENERAL DIMENSIONS



		MONOBOOM Arm 1.69 m	MONOBOOM Arm 2.19 m	OFFSET BOOM Arm 1.75 m	OFFSET BOOM Arm 2.10 m
A Cab height	mm	2720	2720	2860	2860
B Overall height (with attachment)	mm	2720	2860	2860	2860
C Overall length (with attachment)	mm	6310	6340	6310	6310
D Overall length (without attachment)	mm	3410	3410	3410	3410
E Upper structure overall width	mm	2270	2270	2270	2270
F Undercarriage overall width	mm	2320	2320	2320	2320
G Track gauge	mm	1870	1870	1870	1870
H Width of standard shoe	mm	450	450	450	450
I Crawler overall length	mm	2845	2845	2845	2845
J Wheel base (Center to center of wheels)	mm	2210	2210	2210	2210
K Clearance height under upper structure	mm	750	750	750	750
L Minimum ground clearance	mm	360	360	360	360
M Swing (rear end) radius	mm	1290	1290	1290	1290
N Blade height	mm	450	450	450	450
O Blade width	mm	2320	2320	2320	2320

CX D-SERIES CX85D SR

DIGGING PERFORMANCE



		MONOBOOM Arm 1.69 m	MONOBOOM Arm 2.19 m	OFFSET BOOM Arm 1.75 m	OFFSET BOOM Arm 2.10 m
Arm digging force	kN	39.5	33.8	39.4	34.7
Bucket digging force	kN	56.9	56.9	56.9	56.9
A Maximum reach	mm	6410	6890	6500	6790
B Max. digging depth	mm	4130	4630	4250	4590
C Max. digging height	mm	7370	7770	7380	7590
D Max. dumping height	mm	5280	5670	5310	5540
E Max dozer blade lift above ground	mm	440	440	440	440
F Max dozer drop below ground	mm	280	280	280	280
Boom offset (L.H.)	mm	-	-	1100	1100
Boom offset (R.H.)	mm	-	-	1000	1000

LIFTING CAPACITY CX85D SR OFFSET BOOM

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

STD ARM / BLADE DOWN
1.75 m length, 450 mm shoes. Max reach 5.45 m

6.0 m				2250*	2250*	2.72	
4.0 m	2590*	2590*	1930*	1930*	1850*	1470	4.73
2.0 m			2310*	1770	1820*	1090	5.4
0 m	2180*	2180*	2540*	1560	1860*	1050	5.28
-2.0 m	3550*	3550*	2040*	1550	1830*	1410	4.29

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

LONG ARM / BLADE DOWN
2.10 m length, 450 mm shoes. Max reach 5.74 m

6.0 m				1910*	1910*	3.28	
4.0 m			1780*	1780*	1680*	1310	5.07
2.0 m	3520*	3520*	2190*	1790	1680*	1000	5.7
0 m	2420*	2420*	2500*	1550	1730*	950	5.58
-2.0 m	3940*	3940*	2180*	1500	1760*	1220	4.66

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

STD ARM / BLADE UP
1.75 m length, 450 mm shoes. Max reach 5.45 m

6.0 m				2250*	2250*	2.72	
4.0 m	2590*	2590*	1930*	1910	1540	1410	4.73
2.0 m			1870	1690	1150	1040	5.4
0 m	2180*	2180*	1660	1480	1110	1000	5.28
-2.0 m	3550*	3550*	1640	1470	1500	1340	4.29

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

LONG ARM / BLADE UP
2.10 m length, 450 mm shoes. Max reach 5.74 m

6.0 m				1910*	1910*	3.28	
4.0 m			1780*	1780*	1380	1260	5.07
2.0 m	3520*	3520*	1900	1710	1050	950	5.7
0 m	2420*	2420*	1650	1470	1010	910	5.58
-2.0 m	3940*	3940*	1600	1420	1290	1160	4.66

LIFTING CAPACITY CX85D SR MONOBOOM

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

STD ARM / BLADE DOWN
1.69 m length, 450 mm shoes. Max reach 5.36 m

6.0 m				2380*	2380*	2.55	
4.0 m			2120*	2030	1780*	1580	4.64
2.0 m			2540*	1900	1800*	1230	5.32
0 m			2810*	1770	2080*	1230	5.19
-2.0 m	3980*	3980*	2180*	1770	2000	1670	4.18

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

LONG ARM / BLADE DOWN
2.19 m length, 450 mm shoes. Max reach 5.84 m

6.0 m				1780*	1780*	3.45	
4.0 m			1870*	1870*	1440*	1340	5.18
2.0 m			2350*	1930	1440*	1090	5.8
0 m			2770*	1770	1680*	1080	5.68
-2.0 m	4620*	4620*	2460*	1730	1880*	1360	4.78

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

STD ARM / BLADE UP
1.69 m length, 450 mm shoes. Max reach 5.36 m

6.0 m				2380*	2380*	2.55	
4.0 m			2120*	1950	1660	1520	4.64
2.0 m			2000	1820	1290	1180	5.32
0 m			1870	1700	1290	1180	5.19
-2.0 m	3980*	3980*	1860	1690	1760	1600	4.18

		REACH				
		2.0 m	4.0 m	At max reach		
Front	Side				m	

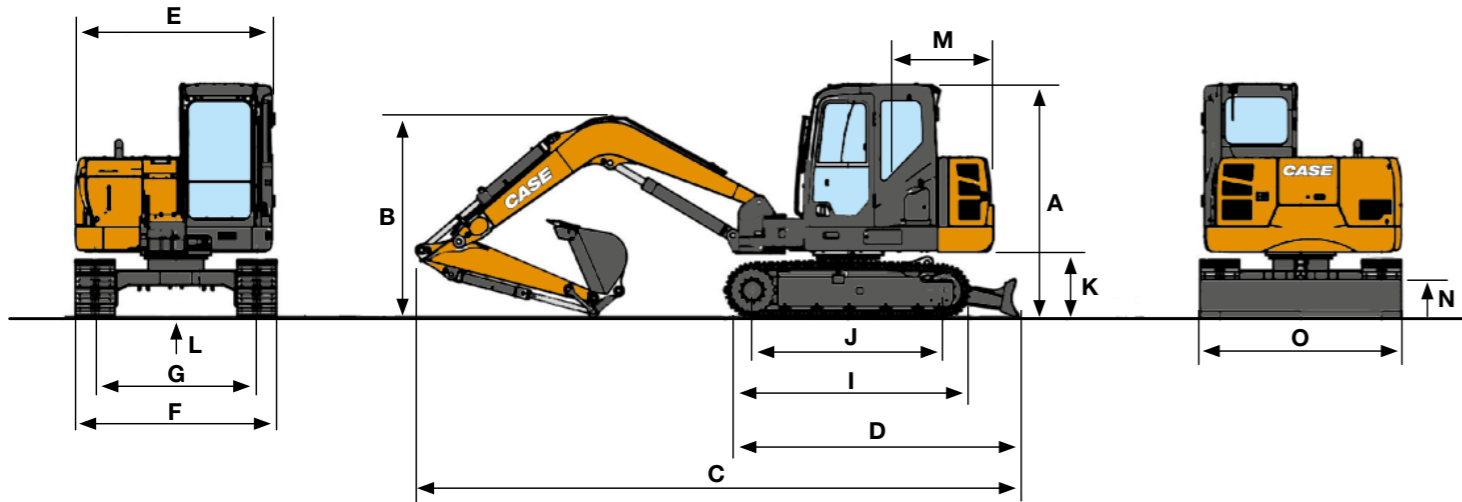
LONG ARM / BLADE UP
2.19 m length, 450 mm shoes. Max reach 5.84 m

6.0 m				1780*	1780*	3.45	
4.0 m			1870*	1870*	1400	1290	5.18
2.0 m			2030	1850	1130	1040	5.8
0 m			1870	1700	1130	1030	5.68
-2.0 m	4620*	4620*	1830	1660	1430	1310	4.78

* The above loads (kg) are compliant to the ISO standards and refer to the excavator equipped without bucket. The indicated loads are no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk (*) are limited by the hydraulic lifting capacity.

CX D-SERIES CX90D MSR

GENERAL DIMENSIONS

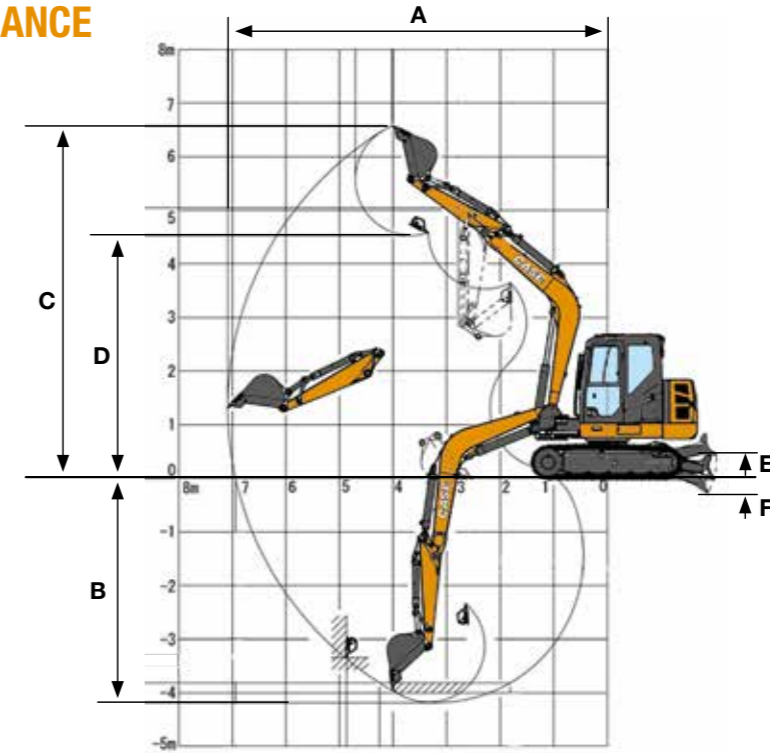


Arm 1.69 m

Arm 2.19 m

	mm	2720	2720
A Cab height	mm	2720	2740
B Overall height (with attachment)	mm	6990	7040
C Overall length (with attachment)	mm	3410	3410
D Overall length (without attachment)	mm	2270	2270
E Upper structure overall width	mm	2320	2320
F Undercarriage overall width	mm	1870	450
G Track gauge	mm	2845	2845
H Width of standard shoe	mm	750	750
I Crawler overall length	mm	360	360
J Wheel base (Center to center of wheels)	mm	1680	1680
K Clearance height under upper structure	mm	450	450
L Minimum ground clearance	mm	2320	2320
M Swing (rear end) radius			
N Blade height			
O Blade width			

DIGGING PERFORMANCE

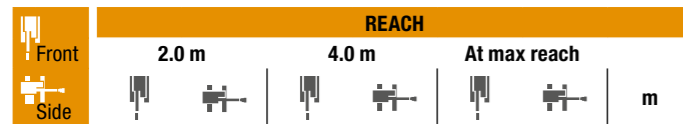


Arm 1.69 m

Arm 2.19 m

	kN	39.5	33.8
Arm digging force	kN	56.9	56.9
Bucket digging force	mm	7090	7560
A Maximum reach	mm	4180	4670
B Max. digging depth	mm	6570	6890
C Max. digging height	mm	4530	4850
D Max. dumping height	mm	440	440
E Max dozer blade lift above ground	mm	280	280
F Max dozer drop below ground	°	80	80
Boom swing left	°	45	45
Boom swing right			

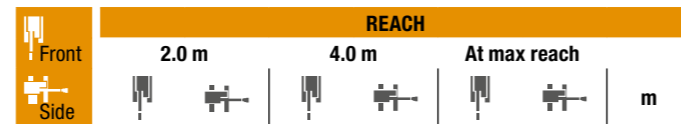
CX90D MSR LIFTING CAPACITIES



STD ARM / BLADE DOWN

1.69 m length, 450 mm shoes. Max reach 6.04 m

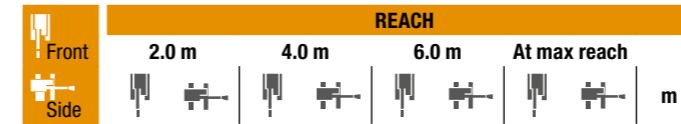
	2080*	2080*	1860*	1450	5.26
4.0 m					
2.0 m	3100*	2070	1880*	1150	5.99
0 m	3890*	1930	2310*	1150	5.86
-2.0 m	5470*	5470*	3320*	1930	2500*
				1520	4.77



STD ARM / BLADE UP

1.69 m length, 450 mm shoes. Max reach 6.04 m

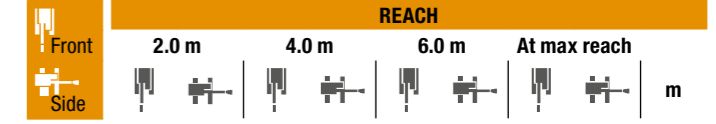
	2080*	2080*	1520	1390	5.26
4.0 m					
2.0 m	2190	1990	1200	1100	5.99
0 m	2040	1840	1210	1100	5.86
-2.0 m	5470*	5470*	2050	1850	1600
				1460	4.77



LONG ARM / BLADE DOWN

2.19 m length, 450 mm shoes. Max reach 6.51 m

	1490*	1250	5.81
4.0 m			
2.0 m	2730*	2110	2020*
0 m	3780*	1930	2260*
-2.0 m	4260*	4260*	3590*
			1890
			1100
			1780*
			1020
			6.34
			2290*
			1270
			5.38



LONG ARM / BLADE UP

2.19 m length, 450 mm shoes. Max reach 6.51 m

	1310	1310	5.81
4.0 m			
2.0 m	2230	2020	1210
0 m	2040	1840	1160
-2.0 m	4260*	4260*	2010
			1810
			1110
			1070
			980
			6.47
			1340
			1220
			5.38

* The above loads (kg) are compliant to the ISO standards and refer to the excavator equipped without bucket. The indicated loads are no more than 87% of hydraulic system lift capacity or 75% of static tipping load. Values marked with an asterisk (*) are limited by the hydraulic lifting capacity.

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