

**D-SERIES CRAWLER EXCAVATORS  
CX490D I CX500D ME**

**CASE**  
CONSTRUCTION



**TIER 4  
FINAL**  
EU STAGE IV

**IT'S TIME  
FOR MORE**

[www.casece.com](http://www.casece.com)

**EXPERTS FOR THE REAL WORLD  
SINCE 1842**

Courtesy of Machine.Market

# HERITAGE

## A TRADITION OF INDUSTRY FIRSTS



## 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.

**2008** CX210B wins the 18th «Energy Conservation Award» from the

Agency for Natural Resources and Energy of the Japanese Ministry of Economy.

**2011** CASE becomes the first construction equipment manufacturer to offer both selective catalytic reduction and cooled exhaust gas recirculation as solutions to meet stringent emissions standards.

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



# CRAWLER EXCAVATORS D-NA

## BUILT TO LAST AND CONTROL



### HIGH RELIABILITY

Improved D-esign for D-urable performances

- The boom and arm have been redesigned according to the latest stress analysis criteria to reduce stress points.
- The undercarriage has been redesigned and reshaped to facilitate the welding process, enhancing the reliability of the fabricated structures. The One-Side-Slope lower frame design reduces the time needed to clean the undercarriage.
- The size of the undercarriage component has been increased, especially in those parts where a high level of protection is required for components.

### HIGH QUALITY

Accurate, simple and robust design for high durability

- True to CASE's enviable reputation for reliability and durability, the D-Series delivers leading design solutions and manufacturing quality.



### HIGH PRECISION AND CONTROLLABILITY

Smooth control with the CASE Intelligent Hydraulic System

The proven CASE Intelligent Hydraulic System (CIHS) delivers energy savings in all cycle time phases (digging, boom up and swing, dumping).

# D-SERIES CRAWLER EXCAVATORS



## CX500D MASS EXCAVATOR

A dedicated model for mass excavation provides outstanding breakout force performance. With a special heavy duty attachment, bigger bucket cylinders and optimized kinematics, the CX500D ME works with larger buckets than the CX490D, delivering industry leading speed, productivity and efficiency.



### FAST CYCLES

High performance hydraulics control

- The new electrically controlled pumps deliver faster cycle times.
- Oil flow can be adjusted according to working needs, or increased smoothly while starting travel and boom down.
- As a result, the machine responsiveness to operation load is multiplied, resulting in cycle times up to 10% faster than the previous generation.



### HIGH VERSATILITY

Working modes easily adapt to every work load

- A** MODE for grading, lifting and precision work.
- H** MODE the best balance between productivity and fuel economy.
- SP** MODE extra speed and power for the most demanding jobs that require maximum productivity.

**Auto Power Boost** automatically increases hydraulic pressure according to the operation's demands.

### Undercarriage and track to match different customer needs

A retractable undercarriage is available for easy transportation to your jobsite as an alternative to the LC chassis. Different sizes of track shoes are available, including the 600 mm double grouser shoes for CASEs when greater traction is needed.



# PRODUCTIVITY

## IT'S TIME FOR BIGGER PERFORMANCE



### HIGH EFFICIENCY

#### Great performances with low fuel consumption

CASE advanced energy management provides solid fuel saving opportunities and lower emissions, and helps to prolong the life of the machine. It consists of 5 Energy Saving controls:

- Torque control decreases main pump loads to prevent a drop in engine rpm, with improved sensitivity to control/monitor main pump loads
- Boom Economy Control (BEC) increases fuel efficiency during boom lower and swing operations, like dump unloading
- Swing Relief Control (SWC) carefully manages the hydraulic power distribution in slewing operations to deliver the most efficient flow and pressure.
- Spool Stroke Control (SSC) creates an automatic pressure adjustment during digging and leveling operations.
- Idle functions: the Auto Idle function lowers engine rpm after 5 seconds of lever inactivity whatever the throttle position, while the Idle Shutdown function shuts the engine down after a pre-setted time of inactivity. Both are manually switchable.



### CLEAN AND MAINTENANCE-FREE POWER

#### EU Stage IV/TIER4 Final compliant CASE engines

- Maintenance-free SCR and DOC-only solution.
- No Diesel Particulate Filter (DPF) or regeneration are required as no solid particles remain trapped into the system, resulting in maximum uptime and lower operating costs.
- High engine efficiency of the latest generation, electronically controlled, high pressure common rail with multi-injection engine ensures great performances and low fuel consumption.
- CASE adds a Variable Geometry Turbocharger to ensure a fast transient response of the engine while minimizing fluid consumption.
- The system is also very economical in its use of AdBlue, which is just 2.5%- 3% of fuel consumption. The large AdBlue tank only needs to be refilled every 10 fuel refills, so that no time is wasted.

# D-SERIES CRAWLER EXCAVATORS



## COMFORTABLE AND SAFE CAB

The ultimate interior cab configuration

- Superior cab structure with ample legroom for the operator.
- Fully adjustable workstation.
- New ergonomically designed high back seat with air suspension for excellent comfort.
- Optional seat tilting adjustment and seat heater.
- Top class features include the 178 mm colour LED Monitor, bluetooth tuner and Radio, spacious storage compartment, 12v accessory plug, clipboard holder, mobile phone holder, warm and cool box, fuse box service connection, storage tray and ergonomic arm rest.



## SMOOTH RIDE, QUIET WORK ENVIRONMENT

Soundproof pressurised cab

- The cushioning system lowers noise and vibration levels for the operator's ultimate comfort.





# COMFORT RULES FIRST CLASS CAB AND SEAT





# D-SERIES CRAWLER EXCAVATORS



## SAFE OPERATION

### ROPS cab and FOPS level II

A safe working environment for the operator:

- Reinforced structure of the cab compliant with ROPS/FOPS requirements.
- Standard head protection approved to FOPS Level 2.
- Wide offering of optional front guards.
- Optional factory fitted travel alarm for greater safety on the jobsite around the machine.



## OUTSTANDING VISIBILITY

### Safety-minded cab structure

Cab designed to create a perceptibly safe and secure working environment:

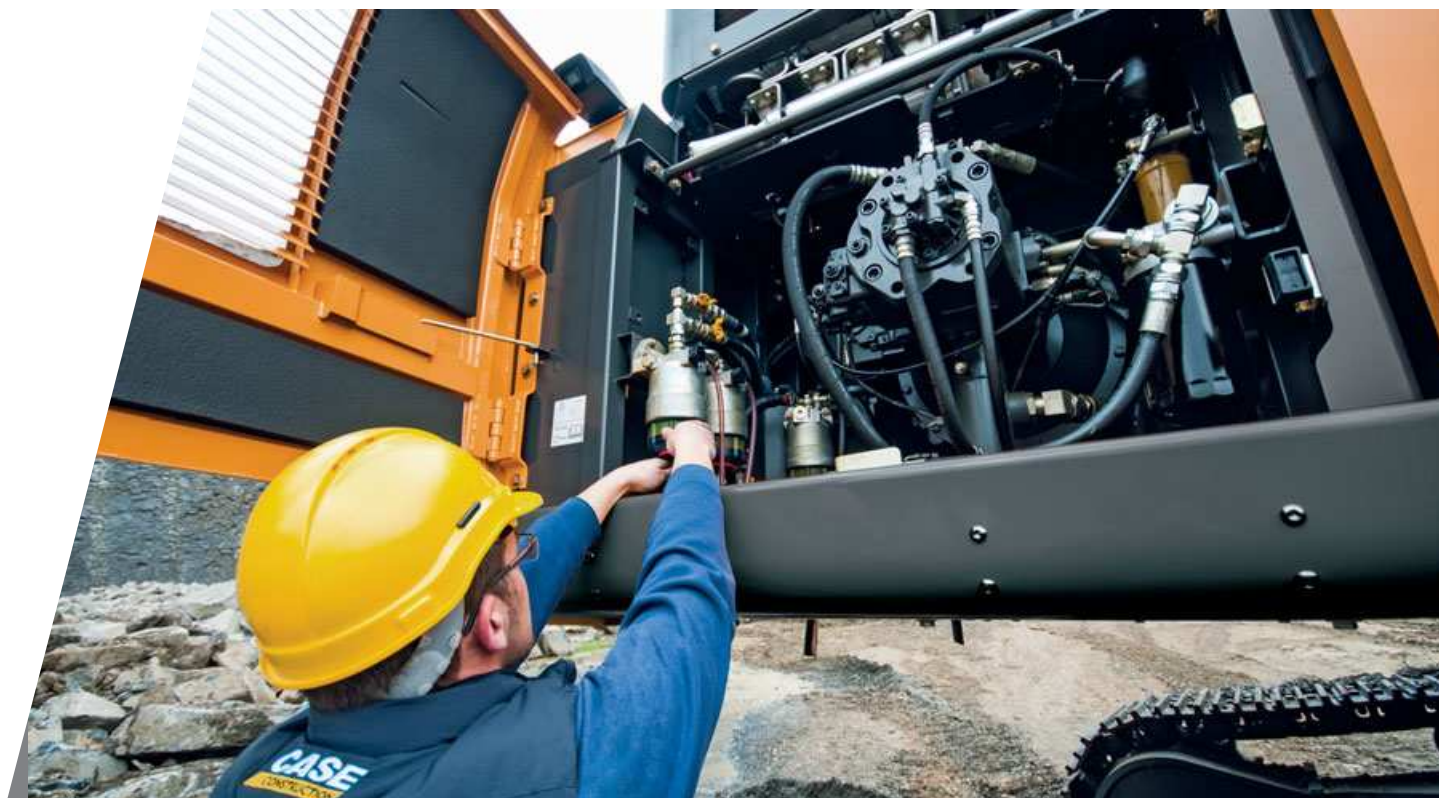
- Ample glazed surface.
- Rear and side view camera.
- Unique 178 mm LED monitor with continuous camera view.
- Efficient use of space with grouped engine, cooling and after-treatment systems to provide excellent rear visibility.
- Optional LED lighting package provides a deeper and wider visibility coverage of the area around the machine when working after dark.





# SAFETY AND MAINTENANCE

## WORK SAFELY IN ALL CONDITIONS



### SAFE ACCESS TO UPPERCARRIAGE

**Solid and robust platform  
and handrails**

- Wide, robust and comfortable steps for safe access to the top of the hood.
- Solid handrail for protection on the top of the hood.
- Non-slip plates and top hood cover are supported by 2 gas pistons and secured by 2 mechanical stops when open.
- Solid platform (80 cm wide) on top of the engine compartment to provide a stable base for the technician working on the engine compartment.



### EASY MAINTENANCE

**CASE stays «grounded»**

- All filters and regular fill points are grouped for easy access.
- Engine oil change intervals set at 500 hours.
- Radiator and cooler cores mounted side by side for easy access.
- Standard 100 l/min refueling pump with automatic cut off.
- Optional hydraulic and engine oil sampling port accessible at ground level for easy oil check.
- Battery Shutdown Switch for safe maintenance on the electrical system.
- All the D-series crawler excavators feature the Extended Maintenance System (EMS) bushings, providing 1,000 hour greasing intervals on all pins except the attachment linkage.
- Hydraulically-driven cooling fan contributes to lower noise output and improvements in fuel consumption. The reversing mode helps to reduce maintenance needs.



# MAIN REASONS TO CHOOSE THE D-SERIES



## HIGH PRECISION AND CONTROLLABILITY

CASE Intelligent Hydraulic System (CIHS): synonymous with high performance smooth control.



## HIGH RELIABILITY

Reliability and durability with the new redesigned arm, boom and undercarriage.



## HIGH VERSATILITY

- 3 available power modes to match customer needs (A, H, SP)
- Auto Power boost job-sensing hydraulic pressure increase.
- Retractable undercarriage or LC chassis
- Wide offering of track shoes size, included the 600 mm steel double grouser shoes



## HIGH EFFICIENCY

- Energy saving system to take advantage of all fuel saving opportunities: up to 8% more fuel efficiency
- High levels of AdBlue autonomy with larger AdBlue tank and low additive consumption







### 10% FASTER

- New electronically controlled hydraulic pumps



### OUTSTANDING VISIBILITY

- Wide glazed area
- Rear and side view
- Large LED monitor
- Optional LED lighting package



### SMOOTH RIDE, QUIET WORK ENVIRONMENT

- Cab with cushioning system
- Low noise and vibration



### COMFORTABLE AND SAFE CAB

- Extra spacious cab
- Fully adjustable workstation
- New high back seat



### LOW EMISSIONS

- EU Stage IV/Tier4 final compliant
- No DPF
- DOC and SCR-only maintenance-free components



### SAFE OPERATION AND MAINTENANCE

- ROPS cab and FOPS level II
- Standard extended handrails and guardrails
- Optional factory fitted travel alarm
- Maintenance points grouped for easy and safe access







## 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

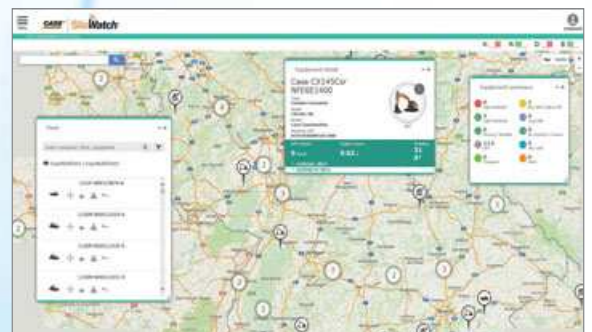
- Eliminate the “phantom fleet”: SiteWatch allows to identify spare units or under loaded machines on each site.
- Become able to reallocate units where they are more needed.
- Forward Maintenance Planning is easier since the actualised working hours are always available.
- Extend the benefits of SiteWatch 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 AND OPTIONS

## STANDARD EQUIPMENT

### ENGINE

Isuzu 6-cylinder turbo-charged diesel  
Tier 4 Final/EU stage IV Certified  
Selective Catalytic Reduction (SCR)  
Diesel Oxidation Catalyst (DOC)  
Cooled Exhaust Gas Recirculation (CEGR)  
VGT turbocharger  
Electronic fuel injection  
High pressure common rail system  
Neutral safety start  
Auto-engine warm up, emergency stop  
Glow-plug pre-heat  
Engine Protection Feature (EPF)  
Dual-stage fuel filtration  
Dual element air filter  
Remote oil filter  
Green plug oil drain  
500-hour engine oil change interval  
24-Volt system  
Battery disconnect switch  
High ambient temperature cooling package  
External Fuel and AdBlue gauges  
Fuel cooler  
Fuel filter restriction indicator  
Fuel shut-off valve  
Idle start  
Radiator, oil cooler, intercooler – protective Screen  
Hydraulic reversing cooling fan  
Refueling Pump

### FUEL ECONOMY SYSTEMS

Engine Idle/Fuel Economy System:  
Auto-idle  
One-touch idle  
Auto-idle shut-down  
Torque control  
Boom Economy Control (BEC)  
Swing Relief Control (SWC)  
Spool Stroke Control (SSC)

### HYDRAULICS

Electronically controlled hydraulic pumps  
Auto power boost  
Auto travel speed change  
Selectable work modes  
Overload warning device  
ISO pattern controls  
Pre-set auxiliary pump settings  
Switch controlled auxiliary selection  
Auxiliary valve  
Hydraulic filter restriction indicator  
Oil cooler  
5,000 hour hydraulic oil change interval  
2,000 hour hydraulic filter change interval

### UPPERSTRUCTURE

ISO mirrors  
Handrail – RH access  
ISO guard rails  
Isolation mounted cab (fluid and spring)  
Lifting eyes for counterweight  
Lockable fuel cap, service doors and toolbox  
Rear and side view safety camera

### OPERATOR STATION

ROPS protection  
FOPS guard OPG level II  
Pressurized cab  
Tempered safety glass  
One-touch lock front window  
Sun visor&rain deflector  
AC/heat/defrost w/auto climate control  
Hot&coolbox, cup holder & ashtray  
Interior dome light  
Cloth covered air-suspension high-back seat  
Sliding seat – 90 mm  
Seat-belt  
Adjustable armrests  
Tilting consoles - 4-position  
Low-effort joystick controls

Sliding cockpit 180 mm  
Auxiliary select system  
Aux-in port for personal electronics  
Multifunction LED color monitor (180 mm)  
26 selectable languages for monitor  
Anti-theft system (start code system)  
Rubber floor mat  
12volt electric socket  
24-volt cigarette lighter  
One-piece right hand window  
Working lights (boom& upperstructure)  
Cab top working lights  
Windshield wiper / washer  
Storage compartments  
On-board diagnostic system

### ATTACHMENTS

Standard boom 7 m (CX490D)  
Mass Excavation boom 6.5 m (CX500D ME)  
HD arm 2.50/3.40m (CX490D)  
HD Mass Excavation arm: 2.50 m only (CX500D ME)  
Boom mounted work light  
Auxiliary pipe brackets  
Centralized lube bank  
Attachment cushion valve

### UNDERCARRIAGE

600 mm steel triple grouser shoes  
Full overlap turntable bearing tub  
Sealed link chain  
Lashing points

## OPTIONAL EQUIPMENT

### HYDRAULICS

Low-flow circuit, proportional control  
Single acting pedal activated hammer circuit  
Single acting hammer circuit with electrical proportional control  
Pedal activated multifunction (hammer/high flow) circuit  
Multifunction (hammer/high flow) circuit with electrical proportional control

### ATTACHMENTS

Hydraulic quick coupler provision  
Safety valves and bucket linkage with hook

### OPERATOR STATION

Front cab guard - vertical bars (OPG level 2)  
Front cab guard - vertical bars (OPG level 1)  
Front mesh screen  
Travel alarm  
AM/FM CD/radio with antenna and 2-speakers  
LED working lights

### UNDERCARRIAGE

750 / 900 mm steel triple grouser shoes  
600 mm steel double grouser shoes  
Full track guide

### TELEMATICS

Three years SiteWatch “Advanced” subscription with remote monitoring and one user’s licence

### OTHERS

Catwalk  
Engine and hydraulic oil sampling ports







# CX D-SERIES

## CX490D

### ENGINE

Model \_\_\_\_\_ ISUZU AQ-6UZ1X  
 Type \_\_\_\_\_ Water-cooled, 4-cycle diesel, 6-cylinder in line,  
 High pressure common rail system (electric control).  
 Turbocharger with air cooled intercooler, SCR system.  
 Emissions \_\_\_\_\_ Tier 4 Final / Eu stage IV  
 Number of cylinders/Displacement (l) \_\_\_\_\_ 6 / 9.84  
 Bore and stroke (mm) \_\_\_\_\_ 120 x 145  
**Rated flywheel horse power**  
 ISO 14396 \_\_\_\_\_ 270 kW / 362 hp at 2000 min<sup>-1</sup>  
 with fan-pump \_\_\_\_\_ 245 kW / 328 hp at 2000 min<sup>-1</sup>  
**Maximum torque**  
 ISO 14396 \_\_\_\_\_ 1363 N-m at 1500 min<sup>-1</sup>

### HYDRAULIC SYSTEM

Main pumps \_\_\_\_\_ 2 variable displacement axial piston pumps  
 with regulating system  
 Max. oil flow (l/min) \_\_\_\_\_ 2 x 364 at 2000 min<sup>-1</sup>  
**Working circuit pressure**  
 Boom/Arm/Bucket (MPa) \_\_\_\_\_ 31.4  
 34.3 with auto power up  
 Swing circuit (MPa) \_\_\_\_\_ 29.4  
 Travel circuit (MPa) \_\_\_\_\_ 34.3  
**Pilot pump** \_\_\_\_\_ 1 gear pump  
 Max. oil flow (l/min) \_\_\_\_\_ 30  
 Working circuit pressure (MPa) \_\_\_\_\_ 3.9  
**Boom Cylinders**  
 Bore (mm) \_\_\_\_\_ 170  
 Stroke (mm) \_\_\_\_\_ 1550  
**Arm Cylinders**  
 Bore (mm) \_\_\_\_\_ 190  
 Stroke (mm) \_\_\_\_\_ 1920  
**Bucket Cylinders**  
 Bore (mm) \_\_\_\_\_ 165  
 Stroke (mm) \_\_\_\_\_ 1285

### SWING

Swing Motor \_\_\_\_\_ Fixed displacement axial piston motor  
 Maximum swing speed (min<sup>-1</sup>) \_\_\_\_\_ 9.1  
 Swing torque (Nm) \_\_\_\_\_ 150000

### FILTERS

Suction filter (µm) \_\_\_\_\_ 105  
 Return filter (µm) \_\_\_\_\_ 6  
 Pilot line filter (µm) \_\_\_\_\_ 8

### ELECTRICAL SYSTEM

Voltage (V) \_\_\_\_\_ 24  
 Alternator (Amp) \_\_\_\_\_ 50  
 Starter (V/kW) \_\_\_\_\_ 24/5.5  
 Battery \_\_\_\_\_ 2 X 12 V - 128 Ah/5HR

### UNDERCARRIAGE

Travel motor \_\_\_\_\_ variable displacement axial piston motor  
 Travel speeds  
 High (km/h - automatic travel speed shifting) \_\_\_\_\_ 5.3  
 Low (km/h) \_\_\_\_\_ 3.2  
 Drawbar pull (kN) \_\_\_\_\_ 339  
 (Fixed sideframe undercarriage)

#### Number of carrier rollers

Fixed sideframe undercarriage \_\_\_\_\_ 2 (each side)  
 Retractable sideframe undercarriage \_\_\_\_\_ 3 (each side)  
 Number of track rollers (each side) \_\_\_\_\_ 9  
 Number of shoes (each side) \_\_\_\_\_ 50

### SOUND LEVEL

External guaranteed sound level  
 (EU Directive 2000/14/EC) \_\_\_\_\_ LwA 105 dB(A)  
 Operator cab sound pressure level (ISO 6396) \_\_\_\_\_ LpA 70 dB(A)

### CIRCUIT AND COMPONENT CAPACITIES

Fuel tank (l) \_\_\_\_\_ 650  
 Hydraulic system (l) \_\_\_\_\_ 460  
 Hydraulic tank (l) \_\_\_\_\_ 230  
 Adblue tank (l) \_\_\_\_\_ 152

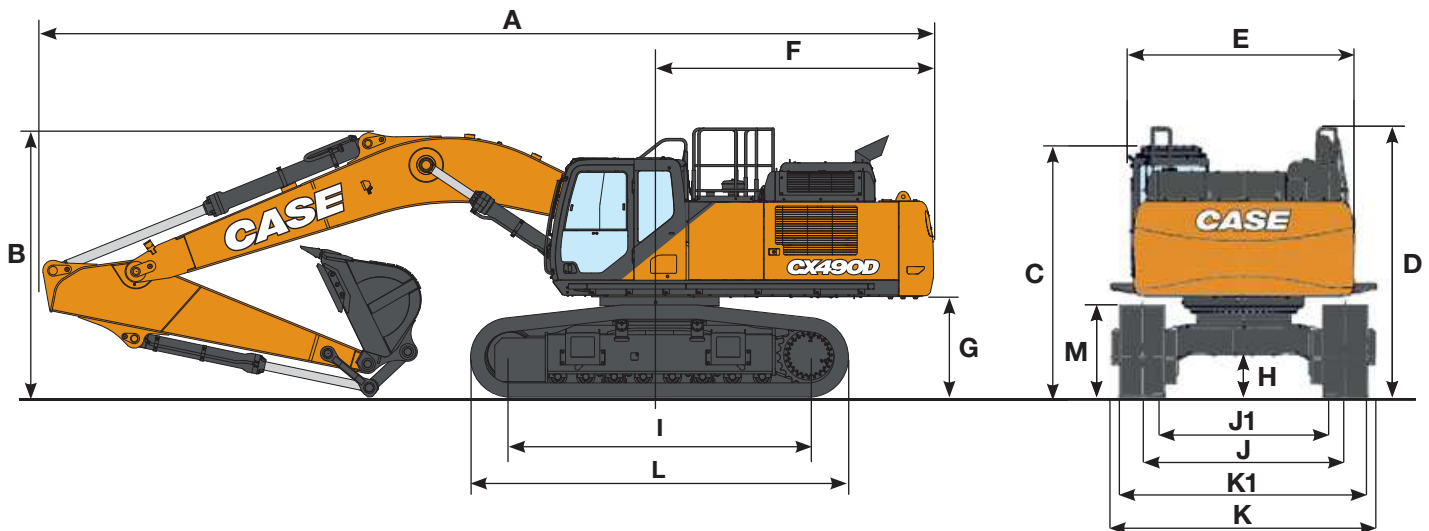
### WEIGHT AND GROUND PRESSURE

(with 3.38 m Arm, 2.0 m<sup>3</sup> HD bucket, 600 mm grouser shoes, operator, lubricant, coolant, full fuel tank and FOPS protection level 2.)

CX490D	FIXED SIDEFRAME UNDERCARRIAGE	RETRACTABLE SIDEFRAME UNDERCARRIAGE
Weight	49400 kg	50900 kg
Ground Pressure	0.085 MPa	0.087 MPa
Counterweight	10000 kg	10000 kg



# SPECIFICATIONS



## GENERAL DIMENSIONS

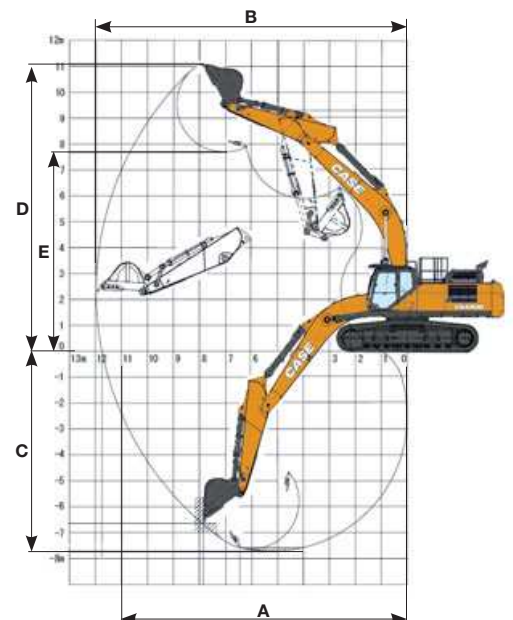
		FIXED SIDEFRAME UNDERCARRIAGE		RETRACTABLE SIDEFRAME UNDERCARRIAGE	
		Arm 3.40 m	Arm 2.50 m	Arm 3.40 m	Arm 2.50 m
	Overall length (without attachment)	mm	6450	6450	6450
A	Overall length (with attachment)	mm	12090	12110	12060
B	Overall height (with attachment)	mm	3650	3670	3680
C	Cab height	mm	3400	3400	3550
D	Overall height (to top of guardrail)	mm	3650	3650	3800
	Upper structure overall width (without catwalks)	mm	3060	3060	3060
E	Upper structure overall width (with catwalks)	mm	3590	3590	3590
F	Swing (rear end) radius	mm	3730	3730	3730
G	Clearance height under upper structure	mm	1330	1330	1480
H	Minimum ground clearance	mm	535	535	720
I	Wheel base (center to center of wheels)	mm	4400	4400	4400
L	Crawler overall length	mm	5450	5450	5450
M	Crawler tracks height	mm	1240	1240	1220
J	Track gauge (extended)	mm	2750	2750	2890
J1	Track gauge (retracted)	mm	-	-	2390
K	Undercarriage overall width (extended with 600 mm shoes)	mm	3350	3350	3490
K1	Undercarriage overall width (retracted with 600 mm shoes)	mm	-	-	2990

## PERFORMANCE DATA

		FIXED SIDEFRAME UNDERCARRIAGE		RETRACTABLE SIDEFRAME UNDERCARRIAGE	
		Arm 3.40 m	Arm 2.50 m	Arm 3.40 m	Arm 2.50 m
	Boom length	mm	6980	6980	6980
	Bucket radius	mm	1840	1840	1840
	Bucket wrist action	°	176	176	176
A	Maximum reach at GRP	mm	11750	10980	11720
B	Maximum reach	mm	11970	11220	11970
C	Max. digging depth	mm	7720	6870	7570
D	Max. digging height	mm	11100	10850	11250
E	Max. dumping height	mm	7690	7410	7840









## DIGGING FORCE (ISO 6015)

		Arm 3.40 m	Arm 2.50 m
Arm digging force	kN	201	246
with Auto power up	kN	220	269
Bucket digging force	kN	247	247
with Auto power up	kN	270	270















# LIFTING CAPACITY

## CX490D

	REACH			
	4.0 m	6.0 m	8.0 m	At max reach
Front				
Side				









**LC - 2.50 m length, 600 mm shoes. Max reach 9.38 m**

	4.0 m	6.0 m	8.0 m	At max reach
8.0 m				12390* 11360 7.41
6.0 m		14290* 14290*	12110* 9860	11820* 8730 6.06
4.0 m		16600* 14230	12860* 9440	11670* 7600 9.22
2.0 m		18400* 13240	13610* 8990	11670* 7210 9.37
0 m		18540* 12820	13680* 8720	11700* 7410 9.09
-2.0 m	22160* 22160*	16940* 12850	12320* 8770	11520* 8370 8.32
-4.0 m	16770* 16770*	12870* 12870*		10480* 10480* 6.09

	REACH					
	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	At max reach
Front						
Side						







**LC - 3.40 m length, 600 mm shoes. Max reach 10.10 m**

	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	At max reach
8.0 m						10740* 10240* 8.34
6.0 m						11040* 10020 9.42
4.0 m			15280* 14580	12020* 9520		9660* 6710 9.99
2.0 m			17570* 13410	13050* 8980	10560 6490	10350* 6370 10.13
0 m		13260* 13260*	18470* 12750	13540* 8610		10620 6480 9.87
-2.0 m	13250* 13250*	24340* 23560	17680* 12600	12970* 8500		10690* 7150 9.16
-4.0 m		20300* 20300*	14860* 12850			10330* 8320 7.09

	REACH			
	4.0 m	6.0 m	8.0 m	At max reach
Front				
Side				

**RTC - 2.50 m length, 600 mm shoes. Max reach 9.38 m**

	4.0 m	6.0 m	8.0 m	At max reach
8.0 m				12390* 12170 7.41
6.0 m		14290* 14290*	12110* 10590	11820* 9380 8.06
4.0 m		16600* 15340	12860* 10150	11670* 8190 9.22
2.0 m		18400* 14340	13610* 9700	11670* 7790 9.37
0 m		18540* 13920	13680* 9440	11700* 8000 9.09
-2.0 m	22160* 22160*	16940* 13950	12320* 9480	11520* 9050 8.32
-4.0 m	16770* 16770*	12870* 12870*		10480* 10480* 6.09

	REACH					
	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	At max reach
Front						
Side						

**RTC - 3.40 m length, 600 mm shoes. Max reach 10.10 m**

	2.0 m	4.0 m	6.0 m	8.0 m	10.0 m	At max reach
8.0 m						10740* 10740* 8.34
6.0 m						11040* 10750 9.42
4.0 m			15280* 15280*	12020* 10240		9660* 7230 9.99
2.0 m			17570* 14510	13050* 9700	10640* 7020	10350* 6890 10.13
0 m		13260* 13260*	18470* 13850	13540* 9320		10640* 7010 9.87
-2.0 m	13250* 13250*	24340* 24340*	17680* 13690	12970* 9210		10690* 7740 9.16
-4.0 m		20300* 20300*	14860* 13950			10330* 9640 7.09

\* 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.



## CX490D LC

### HEAVY DUTY BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1634 kg	○	○
1.35 m³	1100 mm	1803 kg	○	○
1.50 m³	1200 mm	1936 kg	○	○
1.75 m³	1350 mm	2063 kg	○	○
2.00 m³	1500 mm	2238 kg	○	●
2.33 m³	1700 mm	2407 kg	●	■
2.50 m³	1800 mm	2492 kg	●	■
2.66 m³	1900 mm	2667 kg	■	■

### ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1775 kg	○	○
1.35 m³	1100 mm	1949 kg	○	○
1.50 m³	1200 mm	2082 kg	○	○
1.75 m³	1350 mm	2213 kg	○	○
2.00 m³	1500 mm	2389 kg	○	●
2.33 m³	1700 mm	2563 kg	●	■
2.50 m³	1800 mm	2651 kg	●	■
2.66 m³	1900 mm	2825 kg	■	■

## CX490D RTC

### HEAVY DUTY BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1634 kg	○	○
1.35 m³	1100 mm	1803 kg	○	○
1.50 m³	1200 mm	1936 kg	○	○
1.75 m³	1350 mm	2063 kg	○	○
2.00 m³	1500 mm	2238 kg	○	○
2.33 m³	1700 mm	2407 kg	○	●
2.50 m³	1800 mm	2492 kg	●	■
2.66 m³	1900 mm	2667 kg	●	■

### ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1775 kg	○	○
1.35 m³	1100 mm	1949 kg	○	○
1.50 m³	1200 mm	2082 kg	○	○
1.75 m³	1350 mm	2213 kg	○	○
2.00 m³	1500 mm	2389 kg	○	○
2.33 m³	1700 mm	2563 kg	●	●
2.50 m³	1800 mm	2651 kg	●	■
2.66 m³	1900 mm	2825 kg	●	■

### HEAVY DUTY SCOOP BUCKET (WITH CASE MULTI-FIT S COUPLER)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1611 kg	○	○
1.35 m³	1100 mm	1788 kg	○	○
1.50 m³	1200 mm	1926 kg	○	○
1.75 m³	1350 mm	2059 kg	○	●
2.00 m³	1500 mm	2241 kg	●	■
2.33 m³	1700 mm	2418 kg	■	×
2.50 m³	1800 mm	2534 kg	■	×

### ROCK SCOOP BUCKET (WITH CASE MULTI-FIT S COUPLER)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1752 kg	○	○
1.35 m³	1100 mm	1935 kg	○	○
1.50 m³	1200 mm	2071 kg	○	●
1.75 m³	1350 mm	2209 kg	○	●
2.00 m³	1500 mm	2391 kg	●	■
2.33 m³	1700 mm	2575 kg	■	×
2.50 m³	1800 mm	2693 kg	■	×

### HEAVY DUTY SCOOP BUCKET (WITH CASE MULTI-FIT S COUPLER)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1611 kg	○	○
1.35 m³	1100 mm	1788 kg	○	○
1.50 m³	1200 mm	1926 kg	○	○
1.75 m³	1350 mm	2059 kg	○	●
2.00 m³	1500 mm	2241 kg	●	●
2.33 m³	1700 mm	2418 kg	●	■
2.50 m³	1800 mm	2534 kg	■	×
2.66 m³	1900 mm	2674 kg	■	×

### ROCK SCOOP BUCKET (WITH CASE MULTI-FIT S COUPLER)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m	ARM 3.40 m
1.04 m³	900 mm	1752 kg	○	○
1.35 m³	1100 mm	1935 kg	○	○
1.50 m³	1200 mm	2071 kg	○	○
1.75 m³	1350 mm	2209 kg	○	●
2.00 m³	1500 mm	2391 kg	●	■
2.33 m³	1700 mm	2575 kg	■	■
2.50 m³	1800 mm	2693 kg	■	×
2.66 m³	1900 mm	2832 kg	■	×

# CX D-SERIES

## CX500D ME

### ENGINE

Model \_\_\_\_\_ ISUZU AQ-6UZ1X  
 Type \_\_\_\_\_ Water-cooled, 4-cycle diesel, 6-cylinder in line,  
 High pressure common rail system (electric control).  
 Turbocharger with air cooled intercooler, SCR system.  
 Emissions \_\_\_\_\_ Tier 4 Final / Eu stage IV  
 Number of cylinders/Displacement (l) \_\_\_\_\_ 6 / 9.84  
 Bore and stroke (mm) \_\_\_\_\_ 120 x 145  
**Rated flywheel horse power**  
 ISO 14396 \_\_\_\_\_ 270 kW / 362 hp at 2000 min<sup>-1</sup>  
 with fan-pump \_\_\_\_\_ 245 kW / 328 hp at 2000 min<sup>-1</sup>  
**Maximum torque**  
 ISO 14396 \_\_\_\_\_ 1363 N-m at 1500 min<sup>-1</sup>

### HYDRAULIC SYSTEM

Main pumps \_\_\_\_\_ 2 variable displacement axial piston pumps  
 with regulating system  
 Max. oil flow (l/min) \_\_\_\_\_ 2 × 364 at 2000 min<sup>-1</sup>  
**Working circuit pressure**  
 Boom/Arm/Bucket (MPa) \_\_\_\_\_ 31.4  
 34.3 with auto power up  
 Swing circuit (MPa) \_\_\_\_\_ 29.4  
 Travel circuit (MPa) \_\_\_\_\_ 34.3  
**Pilot pump** \_\_\_\_\_ 1 gear pump  
 Max. oil flow (l/min) \_\_\_\_\_ 30  
 Working circuit pressure (MPa) \_\_\_\_\_ 3.9  
**Boom Cylinders**  
 Bore (mm) \_\_\_\_\_ 170  
 Stroke (mm) \_\_\_\_\_ 1550  
**Arm Cylinders**  
 Bore (mm) \_\_\_\_\_ 190  
 Stroke (mm) \_\_\_\_\_ 1920  
**Bucket Cylinders**  
 Bore (mm) \_\_\_\_\_ 170  
 Stroke (mm) \_\_\_\_\_ 1335

### SWING

Swing Motor \_\_\_\_\_ Fixed displacement axial piston motor  
 Maximum swing speed (min<sup>-1</sup>) \_\_\_\_\_ 9.1  
 Swing torque (Nm) \_\_\_\_\_ 150000

### FILTERS

Suction filter (µm) \_\_\_\_\_ 105  
 Return filter (µm) \_\_\_\_\_ 6  
 Pilot line filter (µm) \_\_\_\_\_ 8

### ELECTRICAL SYSTEM

Voltage (V) \_\_\_\_\_ 24  
 Alternator (Amp) \_\_\_\_\_ 50  
 Starter (V/kW) \_\_\_\_\_ 24/5.5  
 Battery \_\_\_\_\_ 2 X 12 V - 128 Ah/5HR

### UNDERCARRIAGE

Travel motor \_\_\_\_\_ Variable displacement axial piston motor  
 Travel speeds  
 High (km/h - automatic travel speed shifting) \_\_\_\_\_ 5.3  
 Low (km/h) \_\_\_\_\_ 3.2  
 Drawbar pull (kN) \_\_\_\_\_ 339  
 (Fixed sideframe undercarriage)

#### Number of carrier rollers

Fixed sideframe undercarriage \_\_\_\_\_ 2 (each side)  
 Retractable sideframe undercarriage \_\_\_\_\_ 3 (each side)  
 Number of track rollers (each side) \_\_\_\_\_ 9  
 Number of shoes (each side) \_\_\_\_\_ 50

### SOUND LEVEL

External guaranteed sound level  
 (EU Directive 2000/14/EC) \_\_\_\_\_ LwA 105 dB(A)  
 Operator cab sound pressure level (ISO 6396) \_\_\_\_\_ LpA 70 dB(A)

### CIRCUIT AND COMPONENT CAPACITIES

Fuel tank (l) \_\_\_\_\_ 650  
 Hydraulic system (l) \_\_\_\_\_ 460  
 Hydraulic tank (l) \_\_\_\_\_ 230  
 Adblue tank (l) \_\_\_\_\_ 152

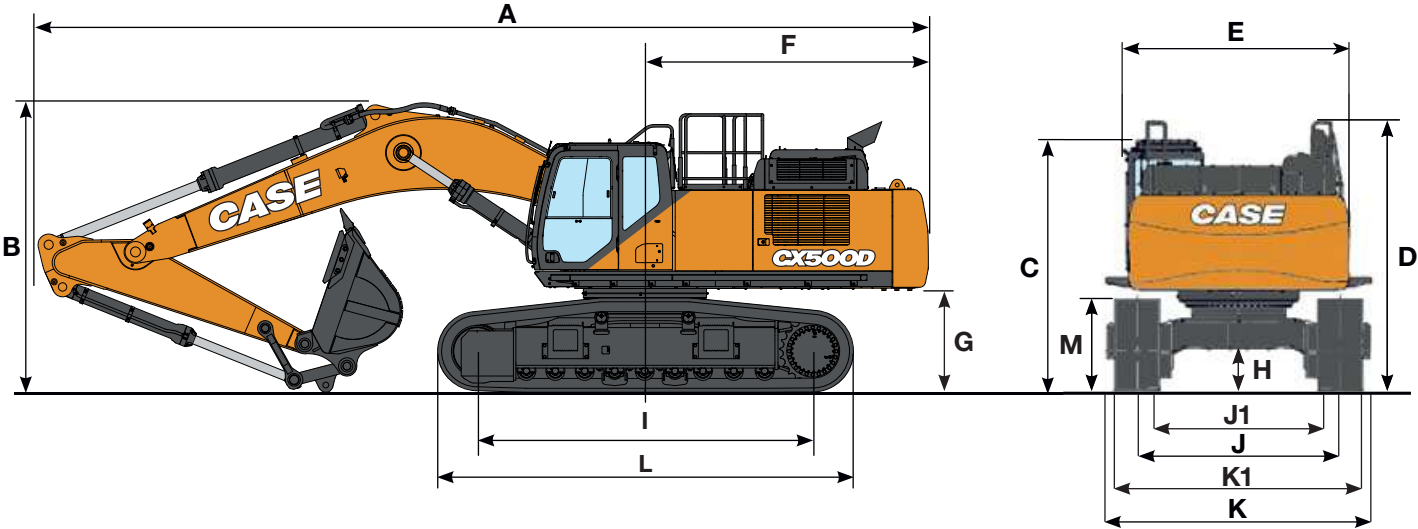
### WEIGHT AND GROUND PRESSURE

(With 2.53 m arm, 3.0 m<sup>3</sup> bucket, 600 mm grouser shoes, operator, lubricant, coolant, full fuel tank and FOPS protection level 2.)

CX500D ME	FIXED SIDEFRAME UNDERCARRIAGE	RETRACTABLE SIDEFRAME UNDERCARRIAGE
Weight	49600 kg	51000 kg
Ground Pressure	0.085 MPa	0.087 MPa
Counterweight	10000 kg	10000 kg



# SPECIFICATIONS



## GENERAL DIMENSIONS

### FIXED SIDEFRAME UNDERCARRIAGE

#### Arm 2.50 m

### RETRACTABLE SIDEFRAME UNDERCARRIAGE

#### Arm 2.50 m

Overall length (without attachment)	mm	6450	6450
A Overall length (with attachment)	mm	11680	11660
B Overall height (with attachment)	mm	3800	3840
C Cab height	mm	3400	3550
D Overall height (to top of guardrail)	mm	3650	3800
Upper structure overall width (without catwalks)	mm	3060	3060
E Upper structure overall width (with catwalks)	mm	3590	3590
F Swing (rear end) radius	mm	3730	3730
G Clearance height under upper structure	mm	1330	1480
H Minimum ground clearance	mm	535	720
I Wheel base (center to center of wheels)	mm	4400	4400
L Crawler overall length	mm	5450	5450
M Crawler tracks height	mm	1240	1220
J Track gauge (extended)	mm	2750	2890
J1 Track gauge (retracted)	mm	-	2390
K Undercarriage overall width (extended with 600 mm shoes)	mm	3350	3490
K1 Undercarriage overall width (retracted with 600 mm shoes)	mm	-	2990

## PERFORMANCE DATA

### FIXED SIDEFRAME UNDERCARRIAGE

#### Arm 2.50 m

### RETRACTABLE SIDEFRAME UNDERCARRIAGE

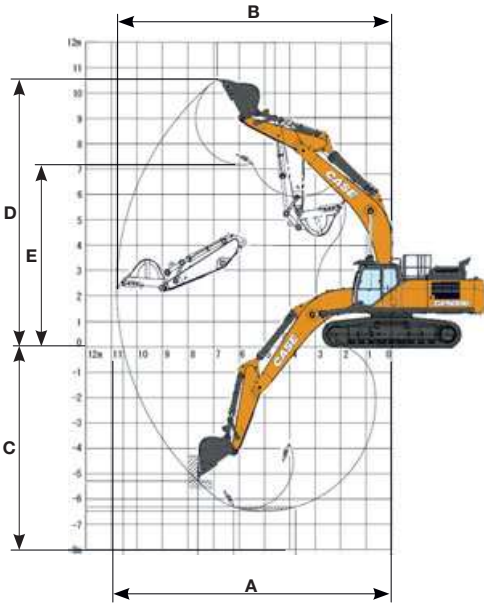
#### Arm 2.50 m

Boom length	mm	6550	6550
Bucket radius	mm	1840	1840
Bucket wrist action	°	160	160
A Maximum reach at GRP	mm	10550	10520
B Maximum reach	mm	10800	10800
C Max. digging depth	mm	6490	6340
D Max. digging height	mm	10550	10700
E Max. dumping height	mm	7160	7310

## DIGGING FORCE (ISO 6015)

### Arm 2.50 m

Arm digging force	kN	245
with Auto power boost	kN	267
Bucket digging force	kN	287
with Auto power boost	kN	313



# LIFTING CAPACITY

## CX500D ME

	REACH				m
	4.0 m	6.0 m	8.0 m	At max reach	
Front					
Side					

LC - 2.50 m length, 600 mm shoes. Max reach 8.96 m

8.0 m							13450*	13450*	6.86
6.0 m			14610*	14610*	12740*	10650	12690*	10330	8.14
4.0 m			16760*	15730	13240*	10310	12460*	8920	8.79
2.0 m			18590*	14730	13880*	9900	12430*	8450	8.95
0 m			18800*	14250	13780*	9650	12410*	8720	8.65
-2.0 m	23000*	23000*	16970*	14250			12100*	10000	7.84
-4.0 m	16220*	16220*	11620*	11620*			10540*	10540*	6.31

	REACH				m
	4.0 m	6.0 m	8.0 m	At max reach	
Front					
Side					

RTC - 2.50 m length, 600 mm shoes. Max reach 8.96 m

8.0 m							13450*	12930	6.86
6.0 m			14610*	14610*	12740*	9920	12690*	9630	8.14
4.0 m			16760*	14610	13240*	9590	12460*	8290	8.79
2.0 m			18590*	13620	13880*	9180	12430*	7840	8.95
0 m			18800*	13150	13780*	8940	12410*	8080	8.65
-2.0 m	23000*	23000*	16970*	13150			12100*	9270	7.84
-4.0 m	16220*	16220*	11620*	11620*			10540*	10540*	6.31

## CX500D LC

### ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m
1.75 m³	1350 mm	2270 kg	○
2.00 m³	1500 mm	2380 kg	○
2.33 m³	1700 mm	2500 kg	○
2.50 m³	1800 mm	2640 kg	⊙
2.78 m³	2000 mm	2900 kg	●

### XTREME ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m
1.75 m³	1350 mm	2450 kg	○
2.00 m³	1500 mm	2570 kg	○
2.33 m³	1700 mm	2700 kg	○
2.50 m³	1800 mm	2850 kg	⊙

## CX500D RTC

### ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m
1.75 m³	1350 mm	2270 kg	○
2.00 m³	1500 mm	2380 kg	○
2.33 m³	1700 mm	2500 kg	○
2.50 m³	1800 mm	2640 kg	⊙
2.78 m³	2000 mm	2900 kg	●

### XTREME ROCK BUCKET (DIRECT MOUNT)

CAPACITY (ISO7451 HEAPED)	WIDTH	WEIGHT	ARM 2.50 m
1.75 m³	1350 mm	2450 kg	○
2.00 m³	1500 mm	2570 kg	○
2.33 m³	1700 mm	2700 kg	○
2.50 m³	1800 mm	2850 kg	⊙
2.78 m³	2000 mm	3150 kg	●

○ Rated material density up to 2 ton/m³   ⊙ Rated material density up to 1.8 ton/m³   ● Rated material density up to 1.6 ton/m³

\* 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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**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

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