

D-SERIES CRAWLER EXCAVATORS
CX750D / CX750D ME
STAGE V

CASE
CONSTRUCTION



IT'S TIME
FOR MORE

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EXPERTS FOR THE REAL WORLD
SINCE 1842

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.

2018 Stage V production for models CX350D and above.

CRAWLER EXCAVATORS D-NA

BUILT TO LAST AND CONTROL



HIGH RELIABILITY

Improved D-design for D-urable performances

- The boom and arm have been redesigned according to the latest stress analysis criteria to reduce stress points.
- The undercarriage is built with high-tensile strength steel for long term durability to work in the toughest heavy duty applications.

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

PRODUCTIVITY IT'S TIME FOR BIGGER PERFORMANCE



CX750D ME MASS EXCAVATOR

A dedicated model for mass excavation provides outstanding breakout force performance. With a special heavy duty shorter boom and dipper and a bigger bucket cylinder and optimized kinematics, the CX750D ME works with larger buckets than the CX750D, 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 11% 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.

Optimized retractable undercarriage

Increased track gauge width (3350 mm) for better lifting capacity.
Width with retracted condition during transportation is 2740 mm.



HIGH EFFICIENCY: THE SECRET

Great performances with low fuel consumption

CASE Intelligent Hydraulic System (CIHS) reads continuously the load pressure through strategic sensors and like an ORCHESTRA DIRECTOR gives always and in real time the right balance for any type of job, providing solid fuel saving opportunities. 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.
- 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.
- 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-set time of inactivity. Both are manually switchable.



CLEANER (STAGE V)

EU Stage V compliant CASE engines

- The new STAGE V engine meets the latest EU standards for engine exhaust emissions that sets new limit for particle number (PN) and further reduced particulate matter (PM) levels.
- Water separator sensor linked to a dedicated message on machine monitor to drain water when level in filter is too high
- New safety filter (maintenance free) to protect the engine from dust during the main filter replacement
- The closed circuit ventilation system make sure the oil gas are filtered, separated and sent back to the crankcase, avoiding dispersion into the air.
- Engine of the latest generation, electronically controlled with Variable Geometry Turbocharger, high pressure common rail with multi-injection engine ensures great performances and low fuel consumption.
- Large AdBlue tank allows longer working time without stopping for AdBlue refill (5-6 fuel refills before a stop). With CASE no time is wasted and your refill is more efficient and safe.



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, plus seat tilting adjustment and seat heater.
- Top class features include the 178 mm colour LED monitor, Bluetooth tuner and DAB+ 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.
- FOPS level 2 standard.
- Optional front guards level 1 and 2.



OUTSTANDING VISIBILITY & QUIET WORK ENVIRONMENT

- Outstanding visibility with ample glazed surface, right and rear camera
- Soundproof pressurised cab
- The cushioning system lowers noise and vibration levels for the operator's ultimate comfort.



D-SERIES CRAWLER EXCAVATORS

SAFETY AND MAINTENANCE WORK SAFELY IN ALL CONDITIONS



CASE MAXIMUM VIEW MONITOR

option with its bird's eye and panoramic view improves operator's safety by:

- 270° wide vision
- 3 cameras
- 7 inch full color monitor
- Blind spots eliminated by image processing
- Led lighting package LED lights for increased visibility in low light conditions



STANDARD HYDRAULIC REVERSABLE FAN

Engine layout inversion

- The new layout made it possible to accommodate two wider radiators with tank & oil cooler / fuel cooler in parallel location opposite side of the cabin assuring better cooling performance.
- The hydraulically-driven cooling fan contributes to lower noise output and improvements in fuel consumption. The reversing mode helps to reduce maintenance needs.



SAFE ACCESS TO UPPERCARRIAGE

Solid and robust platform and handrails

- Wide, robust and comfortable steps and ladders 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 mounted side by side for easy access.
- Standard 100 l/min refueling pump with automatic cut off.
- Optional hydraulic and engine oil sampling port 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.



MAIN REASONS TO CHOOSE THE D-SERIES



THE SECRET FOR HIGH PRECISION AND CONTROLLABILITY

is the CASE Intelligent Hydraulics System (CIHS) which is the result of continuous pursuit 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 VERSATILITY

- Mass excavation available (CX750D ME) for outstanding breakout force
- Wide track gauge (3350 mm) for better lifting
- Four arm lengths options



MORE EFFICIENT MUSCLE BEHIND

- 512 HP engine power
- Top class productivity without compromising fuel efficiency
- New electronically controlled hydraulic pumps for outstanding responsiveness (11% faster than previous series)



HIGH EFFICIENCY

- Energy saving system to take advantage of all fuel saving opportunities
- Large AdBlue tank (152 litres). Your refill is more efficient and safe
- Max torque value shifted to lower rpm (improved engine response)



HIGH RELIABILITY

- Arm, boom and undercarriage have been developed and improved year over year with best design elements and materials for more durability, dispersing stress concentration
- Standard hydrostatic reversible fan to match the real cooling demand, reducing power absorption and reducing maintenance needs thanks to the reversing mode
- Side by side radiators improve cooling and are easily accessible



BETTER VISIBILITY

- Standard rear camera
- Optional CASE maximum view monitor (270° rear & side view)
- New LED working light package more than three times brighter than its halogen equivalent



COMFORTABLE AND SAFE CAB

- Extra spacious cab
- Fully adjustable workstation
- New high back seat
- New layout of the power plant reduces cab inside noise (engine fan far from cab)



SAFE OPERATION AND MAINTENANCE

- All filters now located in the pump compartment
- Wider catwalk for a safer maintenance
- Optional factory fitted travel alarm for greater safety on the jobsite
- New fuel filter supply line with no need to flush after filter replacement
- Fuel prefilter water sensor with dedicated message on cabin monitor



STAGE V ENGINE

in line with the latest EU standard for engine exhaust emissions:

- New ATS with DPD filter (Diesel Particulate Diffuser)
- New closed PCV system (Positive Crankcase Ventilation)



AFTERSALES PRODUCTS AND SERVICES

AFTERSALES PRODUCTS

Keep your equipment performing at its best and protect your investment's value with the extensive offering of high-quality CASE Parts.

Genuine Parts HIGH PERFORMANCE

Optimize your performance and add value to your machine with high-quality genuine parts.

FLEETPRO™

Ensure your machine's performance beyond warranty and manage your budget with CASE's quality second-line range of parts.

Attachments. BUSINESS SOLUTIONS

Add versatility to performance with CASE attachments designed for CASE machines and tested by CASE engineers.

Reman-Parts REMANUFACTURED

Choose sustainable quality with remanufactured parts designed for CASE equipment of all ages.

SERVICE SOLUTIONS

Enjoy the peace of mind of knowing CASE Service Solutions will keep your equipment in top condition with maximum uptime, no unexpected costs, and help you optimize your profitability.



STANDARD AND OPTIONS

STANDARD EQUIPMENT

ENGINE

Isuzu 6-cylinder turbo-charged diesel
EU Stage V certified
Selective Catalytic Reduction (SCR)
Diesel Oxidation Catalyst (DOC)
Cooled Exhaust Gas Recirculation (CEGR)
Diesel Particulate Diffuser (DPD)
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
24V system
Battery disconnect switch
External fuel and AdBlue gauges
Fuel cooler
Fuel filter restriction indicator
Fuel prefilter water sensor with dedicated message on cabin monitor
Idle start
Radiator, oil cooler, intercooler – protective screen
Hydraulic reversing cooling fan
Refueling pump
Engine precleaner self-cleaning cyclonic type

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
Manual lever for auxiliary selection outside cab
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
Isolation mounted cab (fluid and spring)
Lifting eyes for counterweight
Lockable fuel cap, service doors and toolbox
Rear and side view safety camera
Catwalks

OPERATOR STATION

FOPS guard OPG level 2
Pressurized cab
Retractable roller screen provision
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

OPTIONAL EQUIPMENT

HYDRAULICS

Low-flow circuit, proportional control
Multifunction (hammer/high flow) circuit with electrical proportional control, manual 3-way valve selection

ATTACHMENTS

Hydraulic quick coupler provision
HD Mass Excavation arm 3.02 m (CX750D)
Arm 4.11/5.0 m (CX750D)

OPERATOR STATION

Front cab guard - vertical bars (OPG level 2)
Front cab guard - vertical bars (OPG level 1)

UPPERSTRUCTURE

Hydraulic and engine oil sampling ports

UNDERCARRIAGE

Track shoes 750 mm triple grouser
Track shoes 900 mm triple grouser

Sliding cockpit 180 mm
Aux-in port for personal electronics
Multifunction LED color monitor (180 mm)
26 selectable languages for monitor
Anti-theft system (start code system)
Rubber floormat
12V electric socket
24V cigarette lighter
One-piece right hand window
Windshield wiper / washer
Storage compartments
On-board diagnostic system
Travel alarm
DAB+ radio with antenna and 2-speakers
9 LED work lights (2 cab roof, 1 LH boom, 1 RH boom, 1 toolbox, 4 all-around)

ATTACHMENTS

Standard boom 7.7 m (CX750D)
Mass Excavation boom 6.5 m (CX750D ME)
HD arm 3.55 (CX750D)
HD Mass Excavation arm 3.02 m (CX750D ME)
Safety valves and bucket linkage with hook

RETRACTABLE CHASSIS

650 mm double grouser
Full track guide

TELEMATICS

7 years myCASEConstruction subscription with remote monitoring



CX D-SERIES

CX750D - CX750D ME

ENGINE

	CX750D	CX750D ME
Model	ISUZU VE-6WG1X	
Type	Water-cooled, 4-cycle diesel, 6-cylinder in line, high pressure common rail system (electric control), Turbocharger with air cooled intercooler, without cooling fan, SCR & DPD system	
Number of cylinders / Displacement (l)	6/15.7	
Emissions level	EU N°2016/1628 STAGE V	
Bore & stroke (mm)	147 x 154	
Rated flywheel horse power		
ISO 14396 (kW / hp)	382 / 512 at 1800 min ⁻¹	
With fan pump (kW / hp)	343 / 460	
Maximum torque		
ISO 14396 (Nm)	2090 Nm at 1450 min ⁻¹	

HYDRAULIC SYSTEM

Main pumps	2 variable displacement axial piston pumps with regulating system	
Max. oil flow (l/min)	2 x 472 at 1800 min ⁻¹	
Working circuit pressure		
Boom/Arm/Bucket (MPa)	31.4	
With auto power boost (MPa)	34.3	
Swing circuit (MPa)	27.9	
Travel circuit (MPa)	34.3	
Pilot pump	1 gear pump	
Max. oil flow (l/min)	27	
Working circuit pressure (MPa)	4.4	
Boom Cylinders		
Bore (mm)	190	
Stroke (mm)	1805	
Arm Cylinders		
Bore (mm)	210	
Stroke (mm)	2055	
Bucket Cylinders		
Bore (mm)	185	200
Stroke (mm)	1465	1450

SWING

Maximum swing speed (min ⁻¹)	6.1
Swing torque (kNm)	241

UNDERCARRIAGE

High travel speed (km/h)	4.3
Low travel speed (km/h)	3.0
Drawbar pull (kN)	449
Track shoes	650 mm, 750 mm or 900 mm double grouser shoes

CX750D | CX750D ME

CIRCUIT AND COMPONENT CAPACITIES

Fuel tank (l)	900
Hydraulic system (l)	650
Hydraulic reservoir (l)	310
Adblue tank (l)	152

SOUND LEVEL

External guaranteed sound level (EU Directive 2000/14/EC)	LwA 107 dB(A)
Operator cab sound pressure level (ISO 6396)	LpA 72 dB(A)

WEIGHT AND GROUND PRESSURE

with 7.70 m Boom, 3.55 m Arm, 3.3 m³ Heavy Duty bucket, 650 mm grouser shoes, operator, fluids, full fuel tank, and FOPS level 2 guard.

CX750D	Weight	Ground pressure
	72000 kg	0,106 MPa

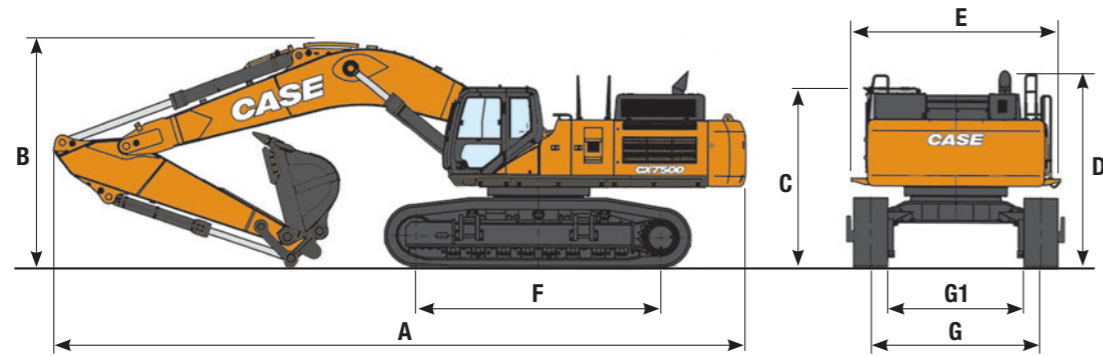
With 6.58 m Boom, 3.02 m Arm, 4.2 m³ Rock bucket, 650 mm grouser shoes, operator, fluids, full fuel tank, and FOPS level 2 guard.

CX750D ME	Weight	Ground pressure
	72850 kg	0,107 MPa

Counterweight 10400 kg

SPECIFICATIONS

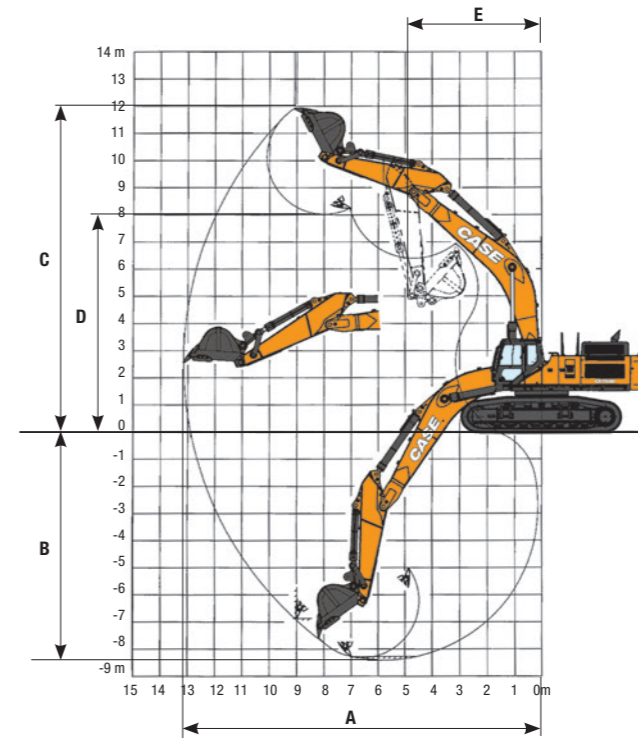
GENERAL DIMENSIONS



CX750D		Arm 3.55 m	Arm 3.02 m	Arm 4.11 m	Arm 5.00 m
A Overall length (with attachment)	mm	13370	13380	13350	13250
B Overall height (to top of boom)	mm	4320	4440	4590	5050
C Cab height	mm	3590	3590	3590	3590
D Overall height (to top of guardrail)	mm	3950	3950	3950	3950
Upper structure overall width (without catwalks)	mm	3700	3700	3700	3700
E Upper structure overall width (with catwalks)	mm	4170	4170	4170	4170
F Wheel base (center to center of wheels)	mm	4710	4710	4710	4710
G Track gauge (Extended)	mm	3350	3350	3350	3350
G1 Track gauge (Retracted)	mm	2740	2740	2740	2740
Undercarriage overall width (Extended) (with 650 mm shoes)	mm	4000	4000	4000	4000
Undercarriage overall width (Retracted) (with 650 mm shoes)	mm	3390	3390	3390	3390
Tail swing radius	mm	4050	4050	4050	4050

CX750D ME		Arm 3.02 m
A Overall length (with attachment)	mm	12250
B Overall height (to top of boom)	mm	4960
C Cab height	mm	3590
D Overall height (to top of guardrail)	mm	3950
Upper structure overall width (without catwalks)	mm	3700
E Upper structure overall width (with catwalks)	mm	4170
F Wheel base (center to center of wheels)	mm	4710
G Track gauge (Extended)	mm	3350
G1 Track gauge (Retracted)	mm	2740
Undercarriage overall width (Extended) (with 650 mm shoes)	mm	4000
Undercarriage overall width (Retracted) (with 650 mm shoes)	mm	3390
Tail swing radius	mm	4050

PERFORMANCE DATA



CX750D		Arm 3.55 m	Arm 3.02 m	Arm 4.11 m	Arm 5.00 m
Boom length	mm	7700	7700	7700	7700
Arm length	mm	3550	3020	4110	5000
A Maximum reach	mm	13070	12780	13630	14450
B Max digging depth	mm	8400	7870	8970	9850
C Max digging height	mm	11630	12100	11970	12280
D Max dumping height	mm	7810	8090	8110	8400
E Min. Swing radius	mm	5810	5830	5730	5710

CX750D ME		Arm 3.02 m
Boom length	mm	6580
Arm length	mm	3020
A Maximum reach	mm	11730
B Max digging depth	mm	7180
C Max digging height	mm	11060
D Max dumping height	mm	6990
E Min. Swing radius	mm	5150

DIGGING FORCE (ISO 6015)

CX750D		Arm 3.55 m	Arm 3.02 m	Arm 4.11 m	Arm 5.00 m
Arm digging force	kN	259	289	233	202
with auto power up	kN	283	316	254	220
Bucket digging force	kN	306	306	307	307
with auto power up	kN	334	334	335	335

CX750D ME		Arm 3.02 m
Arm digging force	kN	281
with auto power up	kN	307
Bucket digging force	kN	335
with auto power up	kN	366

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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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The call is free from a land line.
Check in advance with your Mobile Operator if you will be charged. Toll free number not available from all calling areas.

