

**C-SERIES HYDRAULIC EXCAVATORS
CX145C SR**

CASE
CONSTRUCTION



**COMPACT
PERFORMANCE**

www.casece.com

**EXPERTS FOR THE REAL WORLD
SINCE 1842**

MAIN REASONS TO CHOOSE THE C-SERIES



BEST IN CLASS PRECISION AND CONTROLLABILITY

A very smooth control to get the job done easily and in total safety



HIGH RELIABILITY

Robust design, high quality components and durable materials



HIGH EFFICIENCY

CASE Intelligent Hydraulic System (CIHS), in combination with the powerful TIER 4 Interim diesel engine, leads to fuel savings of up to 9% compared to the previous model



GREAT VERSATILITY

- 3 available power modes to match customers needs (A, H, SP)
- Auto Power boost job-sensing hydraulic pressure increase



FULL SPECIFICATION EXCAVATORS

- Short Radius design, ideal for any jobsite where space is limited
- Wide offering of auxiliary hydraulics (multi-function and low flow)
- Undercarriage equipped with the blade as standard
- Standard/Offset boom to fulfill any customer need



COMFORTABLE AND SAFE CAB

- Certified ROPS and FOPS level 2 cab
- Larger cab with multi-adjustable suspension seat and increased foot space
- Improved air conditioning system
- Wide glazed area for an outstanding visibility



FAST CYCLES

Pump Torque Variable Control provides perfect control of the engine and hydraulic system, further boosting productivity



SAFE OPERATION AND MAINTENANCE

- All filters grouped together for an easy and safe access from the ground
- Standard EMS bushing cut greasing intervals to every 1,000 hours

C-SERIES HYDRAULIC EXCAVATORS



ROBUST QUALITY

The short radius machines continue a Case tradition of robust design and high quality build. By bringing together the highest quality components and materials in a machine that has been designed to work productively, Case has further improved reliability and durability, reducing ownership costs and cutting downtime for the customer.

SHORT SWING RADIUS

The new CX145C SR is the perfect machine for road construction, bridges projects and urban construction sites, any jobsite where space is limited without the risk of machines damage.



OPTIONAL OFFSET BOOM

The optional Offset boom allows the operator to enlarge the working range staying in the same position, improving the capability to work in narrow and restricted spaces and along the walls.

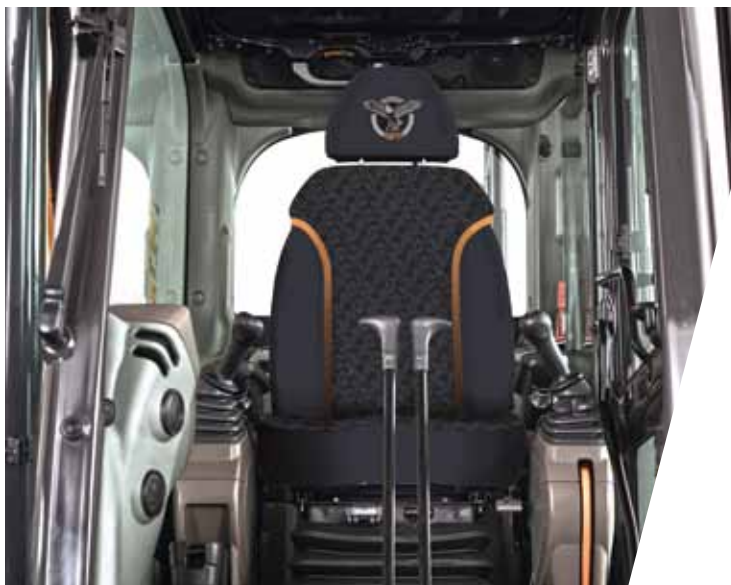


PERFORMANCE AND EFFICIENCY

The Case Intelligent Hydraulic System (CIHS) incorporates a host of energy saving, performance enhancing functions to boost efficiency and machine output. A simple operating mode dial delivers three working modes with Super Power set to provide maximum horsepower and hydraulic output. A Powerboost function provides an 8 second boost for maximum digging performance. 5 Energy saving functions allow to optimize performances reducing the fuel consumption depending on the working conditions.

OPERATOR COMFORT AND SAFETY

ROPS and FOPS Level 2 cab delivers an almost automotive noise level. Efficient air conditioning system, multi-adjustable suspension seating, increased foot space, cup holder and storage compartments deliver the most productive working environment possible. The new full-colour Multifunction Display provides access to on-board diagnostics, reducing downtime for service and maintenance. An ECO gauge provides a constant real-time recording of fuel consumption.



SIMPLIFIED MAINTENANCE

A redesigned upper structure provides access to all service points from ground level, with large side opening access doors. All filters are grouped together for easy access, reducing service time. A synthetic filter extends hydraulic oil service intervals to 5,000 hours while engine oil change intervals are set at a competitive 500 working hours. In addition remote greasing points and standard EMS bushings cut greasing intervals to every 1,000 hours. Side-by-side coolers and radiators are easily accessed for cleaning and maintenance.

STANDARD WARRANTY

When the unexpected occurs, you need to know your equipment is protected.

At Case Construction we understand the importance of your machinery being in good working order when it counts.

CASE standard warranty is designed to keep your equipment working well while taking away the concerns of the cost and inconvenience of mechanical failure.

WHAT ARE THE ADVANTAGES OF CASE STANDARD WARRANTY?

PEACE OF MIND

Provides protection for your equipment.

FLEXIBLE OPTIONS

Plans can be customised to meet individual needs with PROCover 2.0 purchased warranty. Contact your local dealer for details.

DEPENDABLE SERVICE

Eligible repairs completed by an authorised Case Construction Dealership and their trained service technician's using genuine OEM parts & lubricants.

TRANSFERABLE PROTECTION

New Equipment Plans may be transferred to a new owner at no charge.

COVERAGE

- **STANDARD WARRANTY**

3 Years / 5000 Hours

Additional years/hours can be purchased.

Please contact your local Case Construction dealer for further information.





C-SERIES

HYDRAULIC EXCAVATORS

ENGINE

Model _____ Tier 4 interim certified ISUZU AM-4JJ1X
 Type _____ Water-cooled, 4-cycle diesel, 4-cylinder in line,
 High pressure common rail system (electric control), Turbocharger with air
 cooled intercooler, DPD system
 Number of cylinders _____ 4
 Bore/Stroke _____ 95.4 x 104.9 mm
 Horsepower ISO 9249 _____ 74.9 kW at 2000 min-1
 Maximum torque ISO 9249 _____ 359 Nm at 1600 min-1

HYDRAULIC SYSTEM

Max oil flow _____ 2 x 129 l/min @ 2000 min-1
 2 variable displacement axial piston pumps with regulating system
 Working circuit pressure _____
 Boom/Arm/Bucket _____ 343 Bar / 4974.8 PSI
 Boom/Arm/Bucket (with auto power up) _____ 363 Bar / 5264.9 PSI
 Swing circuit _____ 280 Bar / 4061 PSI
 Travel circuit _____ 343 Bar / 4974.8 PSI
 Auxiliary hydraulic flow and pressure for attachments _____ 343 Bar / 4974.8 PSI

SWING

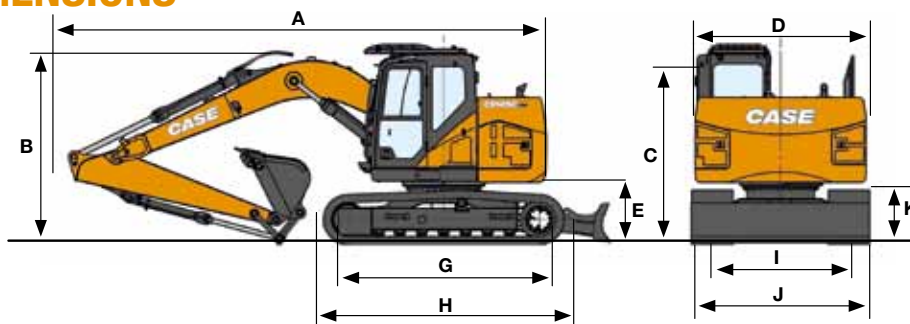
Maximum swing speed _____ 10.6 min-1

WEIGHT

With 2.5 m Arm, 0.5 m³ bucket, operator, lubricant,
 coolant and full fuel tank and top guard OPG level 2

CX145C SR BLADE WITH STD BOOM	WEIGHT (KG)
500 mm grouser shoe	14,500

GENERAL DIMENSIONS



CX145C SR		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
Overall length (without attachment)	mm	4160	4160	4160
A Overall length (with attachment)	mm	7880	7680	7620
B Overall height (with attachment)	mm	2900	2900	2900
C Cab height	mm	2900	2900	2900
D Upper structure overall width	mm	2490	2490	2490
Swing (rear end) radius	mm	1490	1490	1490
E Clearance height under upper structure	mm	880	880	880
F Minimum ground clearance	mm	440	440	440
G Wheel base (Center to center of wheels)	mm	2790	2790	2790
H Crawler overall length	mm	3500	3500	3500
I Track gauge	mm	1990	1990	1990
J Undercarriage overall width (with 500 mm shoes)	mm	2490	2490	2490
K Crawler tracks height	mm	790	790	790

BLADE DIMENSIONS AND RANGE

CX145C SR BLADE / OFFSET BOOM	
Blade dimensions (width x height)	2490 x 570 mm
Blade range (up/down)	510 x 520 mm

TRAVEL

Travel motor _____ Fixed displacement axial piston motor
 Max travel speed _____ 5.6 km/h (Automatic travel speed shifting)
 Low travel speed _____ 3.4 km/h
 Gradeability _____ 70% (35°)
 Drawbar pull _____ 116 kN

ELECTRICAL SYSTEM

Circuit _____ 24 V
 Alternator _____ 50 Amp

UNDERCARRIAGE

Number of carriers rollers (each side) _____ 1
 Number of track rollers (each side) _____ 7
 Number of shoes (each side) _____ 43
 Type of shoe _____ Triple grouser shoe

CAPACITIES

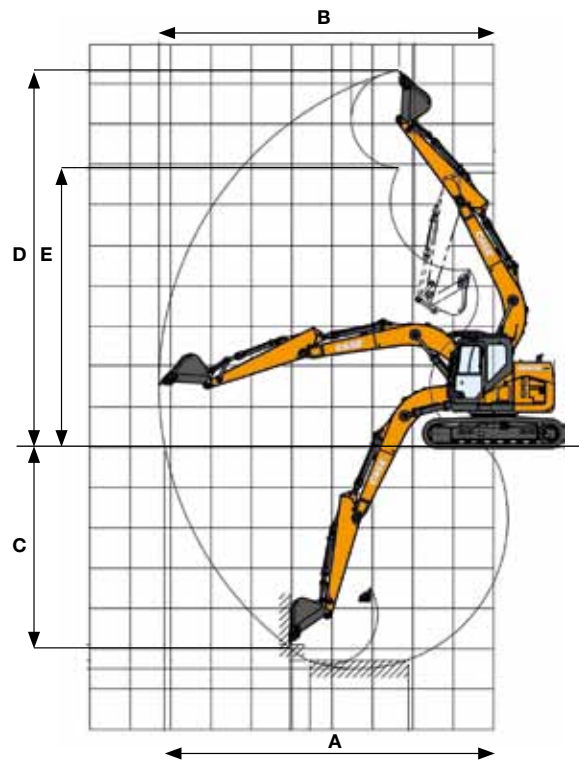
Fuel tank _____ 200 ltr
 Hydraulic system _____ 252ltr
 Cooling system _____ 15.3 ltr
 Noise level inside cab _____ 73 dB(A)

With 2.11 m Arm, 0.45 m³ bucket, operator, lubricant,
 coolant and full fuel tank and top guard OPG level 2

CX145C SR BLADE WITH OFFSET BOOM	WEIGHT (kg)
500 mm grouser shoe	15,100

SPECIFICATIONS

CX145C SR



CX145C SR BLADE		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
Boom length	mm	4630	4500	4500
Bucket radius	mm	1200	1200	1200
Bucket wrist action	°	178	178	178
A Maximum reach at GPR	mm	8140	7430	7690
B Maximum reach	mm	8290	7590	7840
C Max. digging depth	mm	5510	4910	5210
D Max digging height	mm	9340	8630	8810
E Max. dumping height	mm	6940	6250	6430

DIGGING FORCE

ISO 6015

CX145C SR BLADE		MONOBOOM ARM 2.50	OFFSET BOOM ARM 2.11	OFFSET BOOM ARM 2.41
Arm digging force	kN	62	59.5	54.4
- with auto power	kN	66		
bucket digging force	kN	90	89.3	89.3
- with auto power up	kN	95		

LIFTING CAPACITY

 Front 360°	REACH												
	0 m	1.5 m	3.0 m	4.5 m	6.0 m	7.5 m	At max reach			m			

CX145C SR. Blade Down. Standard arm. 2.50 m arm length, 0.50 m³ bucket (400 kg), 500G shoes, max reach 8.29 m

7.5 m							2360*	2360*					1290*	1290*	5.24
6.0 m							2950*	2950*	2320*	2320*			1090*	1090*	6.7
4.5 m							3680*	3680*	2930*	2320	1090*	1090*	1030*	1030*	7.52
3.0 m					7190*	6990	5210*	3580	3860*	2200	2300*	1460	1030*	1030*	7.92
1.5 m					9690*	6280	6250*	3300	4660*	2070	2760*	1400	1100*	1100*	8
0 m			2760*	2760*	8330*	5780	6640*	3070	4790*	1960	2470*	1350	1230*	1230	7.77
-1.5 m			5160*	5160*	9610*	5730	6420*	2970	4560*	1910			1490*	1430	7.22
-3.0 m			8080*	8080*	7820*	5850	5360*	3030	3430*	1980			2040*	1820	6.26
-4.5 m					4370*	4370*	2560*	2560					2110*	2110*	4.69

CX145C SR. BLADE DOWN. Offset boom, 2.11 m arm length, 0.45 m³ bucket (350 kg), 500G shoes, max reach 7.59 m

7.5 m														1790*	1790*	3.95
6.0 m														1530*	1530*	5.82
4.5 m																
3.0 m																
1.5 m																
0 m																
-1.5 m																
-3.0 m																

CX145C SR. BLADE DOWN. Offset boom, 2.41 m arm length, 0.37 m³ bucket (340 kg), 500G shoes, max reach 7.84 m

7.5 m														1690*	1690*	4.45
6.0 m														1470*	1470*	6.15
4.5 m														1450*	1450*	7.04
3.0 m														1500*	1400	7.47
1.5 m														1640*	1300	7.56
0 m														1900*	1310	7.31
-1.5 m														2410*	1480	6.72
-3.0 m														3400*	1950	5.68
-4.5 m														3080*	3080*	3.91

CX145C SR. BLADE UP. Standard boom, 2.50 m arm length, 0.50 m³ bucket (400 kg), 500G shoes, max reach 8.29 m

7.5 m							2360*	2360*					1290*	1290*	5.24
6.0 m							2950*	2950*	2320*	2320*			1090*	1090*	6.7
4.5 m							3680*	3680*	2930*	2320	1090*	1090*	1030*	1030*	7.52
3.0 m					7190*	6990	5210*	3580	3860*	2200	2300*	1460	1030*	1030*	7.92
1.5 m					9690*	6280	6250*	3300	4660*	2070	2760*	1400	1100*	1100*	8
0 m			2760*	2760*	8330*	5780	6640*	3070	4790*	1960	2470*	1350	1230*	1230	7.77
-1.5 m			5160*	5160*	9610*	5730	6420*	2970	4560*	1910			1490*	1430	7.22
-3.0 m			8080*	8080*	7820*	5850	5360*	3030	3430*	1980			2040*	1820	6.26
-4.5 m					4370*	4370*	2560*	2560					2110*	2110*	4.69

CX145C SR. BLADE UP. Offset boom, 2.11 m arm length, 0.45 m³ bucket (350 kg), 500G shoes, max reach 7.59 m

7.5 m														1790*	1790*	3.95
6.0 m														1530*	1530*	5.82
4.5 m														1500*	1500*	6.76
3.0 m														1560*	1400	7.22
1.5 m														1700*	1300	7.31
0 m														1910	1320	7.06
-1.5 m														2190	1510	6.44
-3.0 m														2970	2060	5.34

CX145C SR. BLADE UP. Offset boom, 2.41 m arm length, 0.37 m³ bucket (340kg), 500G shoes, max reach 7.84 m

7.5 m														1690*	1690*	4.45
6.0 m														1470*	1470*	6.15
4.5 m														1450*	1450*	7.04
3.0 m														1500*	1340	7.47
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-3.0 m														2680	1850	5.68
-4.5 m														3080*	3080*	3.91

STANDARD

ENGINE

Isuzu 4-cylinder turbodiesel in line
 Certified Tier 4 interim
 Electronic fuel injection
 High pressure common rail system
 Variable geometry turbo charger
 Cooled Exhaust Gas Recirculation (CEGR)
 Diesel Particulate Diffuser (DPD)
 Neutral safety start
 Auto-engine warm up, emergency stop
 Glow-plug pre-heat
 Idle System:
 Auto-idle
 One-touch idle
 Idle shut-down
 EPF (Engine Protection Feature)
 Dual-stage fuel filtration
 Dual element air filter
 Remote oil filter
 Green plug oil drain
 500-hour engine oil change interval
 Refuelling Pump

HYDRAULICS

Auto power boost
 Auto swing priority
 Auto travel speed change
 Selectable work modes
 Overload warning device
 SWC - SWING RELIEF CONTROL
 SSC - SPOOL STROKE CONTROL
 BEC - BOOM ECONOMY CONTROL
 AEC - AUTO ECONOMY CONTROL
 SEC - SWING ECONOMY CONTROL

ISO pattern controls
 Pre-set auxiliary pump settings
 Switch controlled auxiliary selection
 Auxiliary valve
 Auxiliary pipe brackets
 5,000 hour hydraulic oil change interval
 1,000 hour hydraulic filter change interval
 Hydraulic track adjustment
 SAHR brake

UPPERSTRUCTURE

Common key vandal locks
 Swivel guard belly pan
 Rear view safety camera
 Isolation mounted cab (fluid and spring)

ATTACHMENT

Boom mounted work light (70 watt)
 Auxiliary pipe brackets
 Centralized lube bank
 Attachment cushion valve
 Arm and boom regeneration
 Standard boom 4.63 m
 Arm 2.50 m
 Arm and boom hose burst check valves
 EMS bushings
 Safety valves on boom and arm cylinders with overload warning device

OPERATOR STATION

ROPS/FOPS level 2 cab
 Pressurized cab
 Tempered safety glass
 One-touch lock front window
 Sun visor & rain deflector

AC/heat/defrost w/ auto climate control
 Cup holder & ashtray
 Interior dome light
 Cloth covered air-suspension seat
 Seat-belt
 Adjustable armrests
 Low-effort controls (short)
 Radio mute switch on control lever
 Controls pre-wired for auxiliary
 Auxiliary select system
 Straight travel
 Aux-in port for personal electronics
 Multifunction color monitor
 Rear-view camera
 Anti-theft system (start code system)
 Rubber floor mat
 12-volt electric socket
 24-volt cigarette lighter
 One-piece right hand window
 2 internal & 3 external view mirrors
 2 working lights (boom & upperstructure)
 2 cab top working lights
 Windshield wiper / washer
 Clear (Lexan) roof window w/sunshade
 Storage compartments
 On-board diagnostic system

UNDERCARRIAGE

500 mm steel shoes, triple semigrouser strutted and sealed link
 Full overlap turntable bearing tub
 Single track guide

Standard and optional equipment shown can vary by country.

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CONSTRUCTION



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NOTE: CASE provides specific outfits for various countries and many optional fittings (OPT). The illustrations on this or other leaflets may relate to standard or optional fittings. Please consult your CASE dealer for any information in this regard and any possible updating on components. CNH Industrial reserves the right to modify machine specifications without incurring any obligation relating to such changes.