

**CX C-SERIES HYDRAULIC EXCAVATORS  
CX145C SR | CX235C SR**

**CASE**  
CONSTRUCTION



**COMPACT  
PERFORMANCE**

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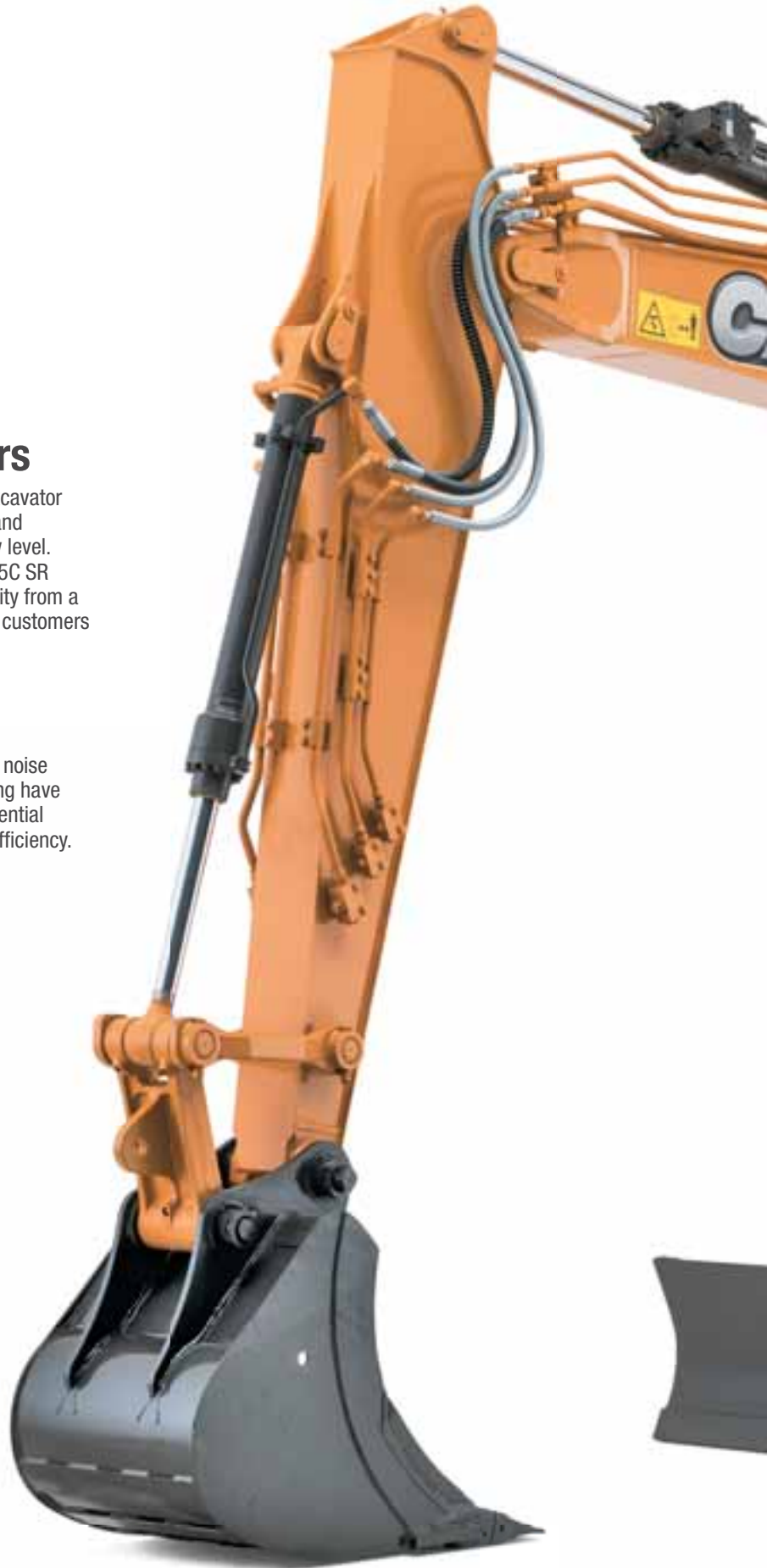
# CX C-SERIES HYDRAULIC EXCAVATORS

## Full specification excavators

Building on the proven success of the C-Series crawler excavator range, Case has developed the Short Radius CX145C SR and CX235C SR, taking performance and productivity to a new level. Featuring the Case Intelligent Hydraulic System, the CX145C SR and CX235C SR deliver maximum economy and productivity from a compact yet powerful design, reducing operating costs of customers and boosting productivity.

## Operator control

The new ROPS cab provides automotive levels of reduced noise and improved operator comfort. Visibility, space and seating have been improved and a new full-colour monitor delivers essential information and a camera feed for maximum safety and efficiency.







# CX C-SERIES HYDRAULIC EXCAVATORS



## Short swing radius

The short swing radius allows excellent operation even in confined spaces. The new CX145C SR and CX235C SR are the perfect machines for road construction, bridges projects and in urban construction sites, any jobsite where space is limited.

The new CASE SR machines are designed to increase productivity, giving the operator easier operation with performance, without the risk of machines damage, in other words superior safety on the job site.



## Energy efficiency

The Case Intelligent Hydraulic System (CIHS) incorporates a host of energy saving, performance enhancing functions, to boost efficiency and machine output.

In combination with powerful, fuel-efficient Tier 4 Interim diesel engines, this leads to fuel savings of up to 17% for the CX235C SR and up to 9% for the CX145C SR.

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.

Boom Economy Control increases energy efficiency during swing and boom lower operations, while Swing Relief Control further optimises energy use when slewing. Automatic Economy Control cuts energy use when the operating levers are in the neutral position and Spool Stroke Control delivers improved controllability in digging and levelling tasks.

The machines feature automatic engine idling and automatic engine shut down, to further cut unnecessary fuel use when not working. Pump Torque Variable Control provides perfect control of the engine and hydraulic system, further boosting economy. Despite this focus on reduced consumption, the SR excavators boast a 5% improvement in cycle times with a 6% improvement in lifting performance.

## 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.



# CX C-SERIES HYDRAULIC EXCAVATORS



## Simplified maintenance

All filters are grouped together for easy access, reducing service time. In addition remote greasing points and standard EMS bushings cut greasing intervals to every 1,000 hours.

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. Side-by-side coolers and radiators are easily accessed for cleaning and maintenance, with a removable mesh filter cutting downtime and boosting productivity for the customer.

A redesigned upper structure provides access to all service points from ground level, with large side opening access doors. A standard 100 litre/min refuelling pump with automatic stop function and larger tank keeps downtime to a minimum, ensuring maximum productivity for up to two working days.







# CX C-SERIES HYDRAULIC EXCAVATORS

## Operator comfort and safety

Case SR excavators take operator comfort to the next level, with a new 7% larger ROPS and FOPS Level 2 cab that delivers an almost automotive noise level.

An improved air conditioning system (28% more airflow and 20% increase in performance), multi-adjustable suspension seating, increased foot space, cup holder and storage compartments deliver the most productive working environment possible.

Visibility is improved and the Case machines feature a new full-colour Multifunction Display. This extra large LED screen provides important machine information in a clear, easy to use menu format. Rear and side view cameras can be viewed using a split-screen facility, while vital machine data remains clearly visible.

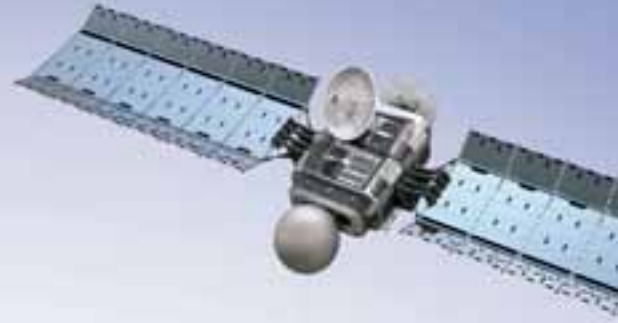
An ECO gauge provides a constant real-time recording of fuel consumption, allowing the operator to reduce power and conserve fuel when possible, improving efficiency and productivity. The monitor also provides access to on-board diagnostics, reducing downtime for service and maintenance.







# TELEMATICS



**CASE**®  
CONSTRUCTION

**SiteWatch**™



## 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.



# CX C-SERIES HYDRAULIC EXCAVATORS

## CX145C SR

### Specifications

#### 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<sup>-1</sup>  
Maximum torque ISO 9249 \_\_\_\_\_ 359 Nm at 1600 min<sup>-1</sup>

#### Hydraulic system

Max oil flow \_\_\_\_\_ 2 x 129 l/min @ 2000 min<sup>-1</sup>  
2 variable displacement axial piston pumps with regulating system  
Working circuit pressure \_\_\_\_\_  
Boom/Arm/Bucket \_\_\_\_\_ 34.3 MPa  
Boom/Arm/Bucket (with auto power up) \_\_\_\_\_ 36.3 MPa  
Swing circuit \_\_\_\_\_ 28.0 MPa  
Travel circuit \_\_\_\_\_ 34.3 Mpa

#### Swing

Maximum swing speed \_\_\_\_\_ 10.6 min<sup>-1</sup>

#### 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

	BLADE	LC
Number of carriers rollers (each side) _____	1 _____	2 _____
Number of track rollers (each side) _____	7 _____	7 _____
Number of shoes (each side) _____	43 _____	47 _____
Type of shoe _____	Triple grouser shoe	

#### Capacities

Fuel tank \_\_\_\_\_ 200 l  
Hydraulic system \_\_\_\_\_ 158 l  
Cooling system \_\_\_\_\_ 15.3 l

### Weight and ground pressure

With 2.50 m Arm , 0.5 m<sup>3</sup> bucket, operator, lubricant, coolant and full fuel tank and top guard OPG level 2

CX145C SR LC	Weight (kg)	Ground pressure (MPa)
600 mm grouser shoe	14.400	0.036

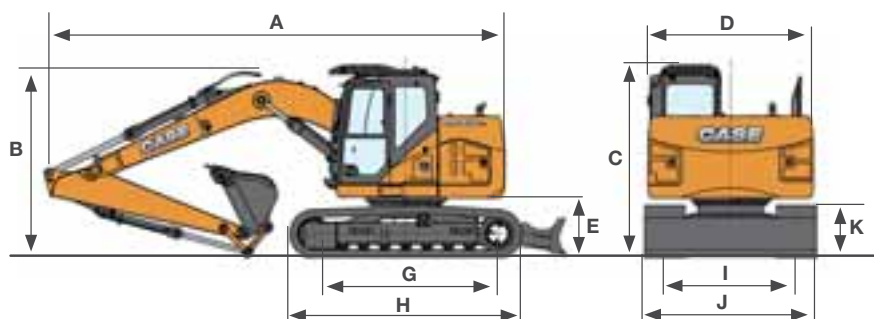
CX145C SR BLADE	Weight (kg)	Ground pressure (MPa)
600 mm grouser shoe	14.500	0.039

With 2.10 m Arm , 0.45 m<sup>3</sup> bucket, operator, lubricant, coolant and full fuel tank and top guard OPG level 2

CX145C SR BLADE OFFSET BOOM	Weight (kg)	Ground pressure (MPa)
600 mm grouser shoe	15.200	0.041



## General dimensions



### CX145C SR LC

Arm 2.50 m

Arm 3.00 m

Arm 2.10 m

	Arm 2.50 m	Arm 3.00 m	Arm 2.10 m
Overall length (without attachment)	3500 mm	3500 mm	3500 mm
A Overall length (with attachment)	7220 mm	7180 mm	7210 mm
B Overall height (with attachment)	2900 mm	2900 mm	2900 mm
C Cab height	2900 mm	2900 mm	2900 mm
D Upper structure overall width	2490 mm	2490 mm	2490 mm
Swing (rear end) radius	1490 mm	1490 mm	1490 mm
E Clearance height under upper structure	880 mm	880 mm	880 mm
F Minimum ground clearance	440 mm	440 mm	440 mm
G Wheel base (Center to center of wheels)	3040 mm	3040 mm	3040 mm
H Crawler overall length	3760 mm	3760 mm	3760 mm
I Track gauge	1990 mm	1990 mm	1990 mm
J Undercarriage overall width (with 500 mm shoes)	2490 mm	2490 mm	2490 mm
K Crawler tracks height	790 mm	790 mm	790 mm

### CX145C SR BLADE

Arm 2.50 m

Arm 3.00

Arm 2.10 m

OFFSET BOOM  
Arm 2.10 m

	Arm 2.50 m	Arm 3.00	Arm 2.10 m	OFFSET BOOM Arm 2.10 m
Overall length (without attachment)	4160 mm	4160 mm	4160 mm	4160 mm
A Overall length (with attachment)	7880 mm	7840 mm	7870 mm	7680 mm
B Overall height (with attachment)	2900 mm	2900 mm	2900 mm	2900 mm
C Cab height	2900 mm	2900 mm	2900 mm	2900 mm
D Upper structure overall width	2490 mm	2490 mm	2490 mm	2490 mm
Swing (rear end) radius	1490 mm	1490 mm	1490 mm	1490 mm
E Clearance height under upper structure	880 mm	880 mm	880 mm	880 mm
F Minimum ground clearance	440 mm	440 mm	440 mm	440 mm
G Wheel base (Center to center of wheels)	2790 mm	2790 mm	2790 mm	2790 mm
H Crawler overall length	3500 mm	3500 mm	3500 mm	3500 mm
I Track gauge	1990 mm	1990 mm	1990 mm	1990 mm
J Undercarriage overall width (with 500 mm shoes)	2490 mm	2490 mm	2490 mm	2490 mm
K Crawler tracks height	790 mm	790 mm	790 mm	790 mm

## Blade dimensions and range

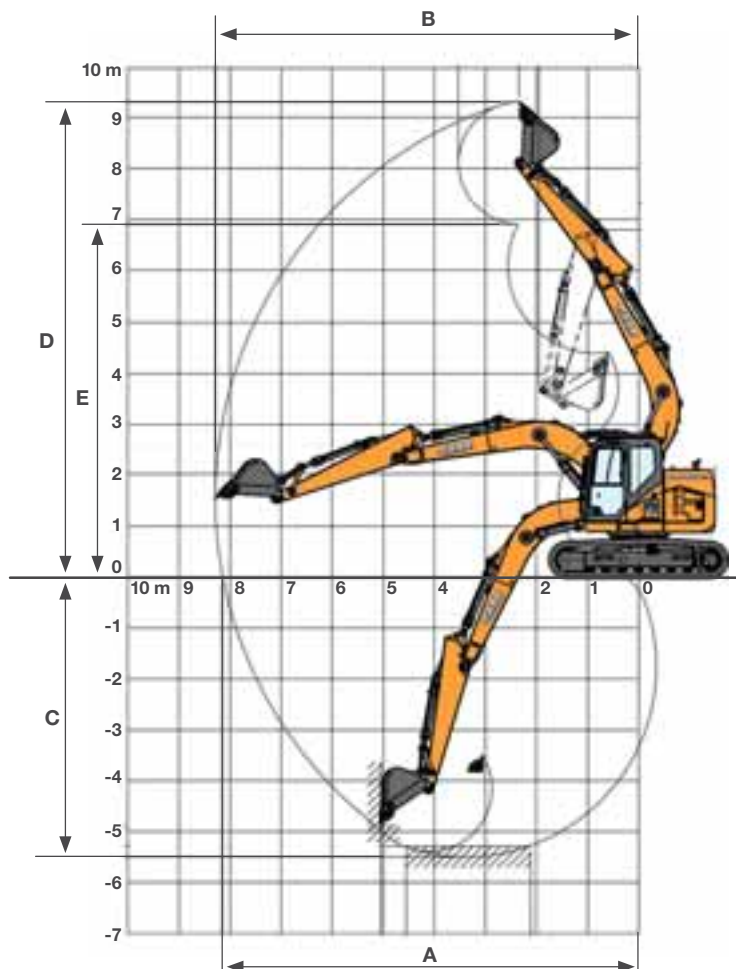
### CX145C SR BLADE / OFFSET BOOM

Blade dimensions (width x height)	2490/2590/2690 x 570 mm
Blade range (up/down)	510 x 520 mm

# CX C-SERIES HYDRAULIC EXCAVATORS

## CX145C SR

### Performance data



#### CX145C SR LC/CX145C SR BLADE

#### Arm 2.50 m

#### Arm 3.00

#### Arm 2.10 m

#### OFFSET BOOM Arm 2.10 m

	Arm 2.50 m	Arm 3.00	Arm 2.10 m	OFFSET BOOM Arm 2.10 m
Boom length	4630 mm	4630 mm	4630 mm	4500 mm
Bucket radius	1200 mm	1200 mm	1200 mm	1200 mm
Bucket wrist action	178 °	178 °	178 °	178 °
A Maximum reach at GRP	8140 mm	8600 mm	7780 mm	7430 mm
B Maximum reach	8290 mm	8740 mm	7940 mm	7590 mm
C Max. digging depth	5510 mm	6010 mm	5110 mm	4910 mm
D Max. digging height	9340 mm	9690 mm	9060 mm	8630 mm
E Max. dumping height	6940 mm	7290 mm	6660 mm	6250 mm

### Digging force With 0.5 m<sup>3</sup> bucket (ISO 6015)

#### CX145C SR LC/CX145C SR BLADE

#### Arm 2.50 m

#### Arm 3.00

#### Arm 2.10 m

#### OFFSET BOOM Arm 2.10 m

	Arm 2.50 m	Arm 3.00	Arm 2.10 m	OFFSET BOOM Arm 2.10 m
Arm digging force	62 kN	56 kN	70 kN	59.5 kN
- with auto power up	66 kN	60 kN	74 kN	
Bucket digging force	90 kN	90 kN	90 kN	89.3 kN
- with auto power up	95 kN	95 kN	95 kN	



# 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. LC. Standard arm. 2.50 m arm length, 0.50 m<sup>3</sup> bucket, 600G shoes, max reach 8.29 m

7.5 m							2360 *	2360 *					1300*	1300*	5.24
6.0 m							2960 *	2960 *	2320 *	2210			1100*	1100*	6.70
4.5 m							3690 *	3510	2940 *	2170	1100*	1100*	1040*	1040*	7.52
3.0 m				7250*	6530	5260 *	3360	3360	2070	2280	1370		1040*	1040*	7.92
1.5 m				9800*	5880	5190	3100	3220	1950	2230	1320		1110*	1110*	8.00
0 m			2770 *	2770 *	8330*	5430	4960	2900	3110	1850	2180	1280	1240*	1200	7.77
-1.5 m			5160 *	5160 *	9620*	5390	4860	2810	3060	1810			1500*	1360	7.22
-3.0 m			8100 *	8100 *	7980*	5590	4890	2860	3100	1870			2060*	1720	6.26
-4.5 m					4510*	4510*	2650 *	2650 *					2200*	2200*	4.69

## CX145C SR. LC. Short arm. 2.10 m arm length, 0.55 m<sup>3</sup> bucket, 600G shoes, max reach 7.94 m

7.5 m							1980 *	1980 *					1600*	1600*	4.63
6.0 m							3200 *	3200 *	2180 *	2140			1330*	1330*	6.26
4.5 m				4580*	4580*	4370 *	3500	3330 *	2110				1250*	1250*	7.14
3.0 m				8030*	6420	5390	3270	3300	2020	1620*	1330		1250*	1250*	7.57
1.5 m				9970*	5660	5100	3020	3170	1900	2160*	1290		1320*	1240	7.65
0 m					7620*	5310	4980	2830	3070	1810			1470*	1280	7.41
-1.5 m			5590 *	5590 *	9320*	5370	4830	2790	3050	1790			1790*	1470	6.82
-3.0 m			8330 *	8330 *	7140*	5500	4840	2870					2500*	1940	5.80
-4.5 m					3060*	3060*							2240*	2240*	3.79

## CX145C SR. LC. Long arm. 3.00 m arm length, 0.37 m<sup>3</sup> bucket, 600G shoes, max reach 8.76 m

7.5 m							2340 *	2340 *					1270*	1270*	5.98
6.0 m							2750 *	2750 *	2290 *	2290			1110*	1110*	7.27
4.5 m							3070 *	3070	2730 *	2240	2000*	1460	1060*	1060*	8.02
3.0 m				4640*	4640*	4250 *	3440	3370 *	2120	2320	1410		1070*	1070*	8.40
1.5 m				8960*	6060	5270 *	3160	3260	1980	2250	1340		1130*	1060	8.47
0 m			2790 *	2790 *	9520*	5460	4980	2910	3130	1860	2190	1280	1250*	1080	8.26
-1.5 m	3860 *	3860*	4690 *	4690 *	9350*	5300	4830	2780	3050	1790	2160	1260	1480*	1200	7.74
-3.0 m	5020 *	5020*	6880 *	6880 *	8720*	5370	4840	2810	3070	1810			1950*	1470	6.85
-4.5 m			9040 *	9040 *	5870*	5440	3900 *	2900					2370*	2160	5.44

\* Hydraulic capacity 87%

# CX C-SERIES HYDRAULIC EXCAVATORS

## CX145C SR

### 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 m<sup>3</sup> bucket, 600G shoes, max reach 8.29 m

7.5 m							2360*	2360*					1300*	1300*	5.24
6.0 m							2960*	2960*	2320*	2270			1100*	1100*	6.70
4.5 m							3690*	3590	2940*	2230	1100*	1100*	1040*	1040*	7.52
3.0 m					7250*	6760	5260*	3450	3870*	2130	2310*	1410	1040*	1040*	7.92
1.5 m					9800*	6100	6330*	3190	4730*	2000	2770*	1360	1110*	1110*	8.00
0 m			2770*	2770*	8330*	5650	6740*	2980	4870*	1900	2480	1310	1240*	1240	7.77
-1.5 m			5160*	5160*	9620*	5610	6520*	2900	4640*	1860			1500*	1390	7.22
-3.0 m			8100*	8100*	7980*	5710	5470*	2950	3510*	1920			2060*	1770	6.26
-4.5 m					4510*	4510*	2650*	2650*					2200*	2200*	4.69

#### CX145C SR. BLADE DOWN. Short arm. 2.10 m arm length, 0.55 m<sup>3</sup> bucket, 600G shoes, max reach 7.94 m

7.5 m							1980*	1980*					1600*	1600*	4.63
6.0 m							3200*	3200*	2180*	2180*			1330*	1330*	6.26
4.5 m					4580*	4580*	4370*	3590	3330*	2170			1250*	1250*	7.14
3.0 m					8030*	6660	5440*	3360	4400*	2070	1620*	1360	1250*	1250*	7.57
1.5 m					9970*	5890	6480*	3110	4780*	1950	2160*	1320	1320*	1270	7.65
0 m					7620*	5530	6700*	2920	4830*	1860			1470*	1320	7.41
-1.5 m			5590*	5590*	9320*	5590	6310*	2880	4430*	1840			1790*	1510	6.82
-3.0 m			8330*	8330*	7140*	5710	4960*	2960					2500*	1990	5.80
-4.5 m					3060*	3060*							2240*	2240*	3.79

#### CX145C SR. BLADE DOWN. Long arm. 3.00 m arm length, 0.37 m<sup>3</sup> bucket, 600G shoes, max reach 8.76 m

7.5 m							2340*	2340*					1270*	1270*	5.98
6.0 m							2750*	2750*	2290*	2290*			1110*	1110*	7.27
4.5 m							3070*	3070*	2730*	2290	2000*	1420	1060*	1060	8.02
3.0 m					4640*	4640*	4250*	3530	3510*	2180	2570*	1450	1070*	1070*	8.40
1.5 m					8960*	6300	6020*	3260	4580*	2040	3080*	1380	1130*	1090	8.47
0 m			2790*	2790*	9520*	5680	6660*	3000	4840*	1910	3310*	1320	1250*	1110	8.26
-1.5 m	3860*	3860*	4690*	4690*	9350*	5520	6610*	2870	4750*	1840	2470*	1300	1480*	1230	7.74
-3.0 m	5020*	5020*	6880*	6880*	8720*	5590	5880*	2890	4060*	1870			1950*	1510	6.85
-4.5 m			9040*	9040*	5870*	5630	3900*	2980*					2370*	2220	5.44

#### CX145C SR. OFFSET BOOM - BLADE DOWN. Standard arm. 2.11 m arm length, 0.45 m<sup>3</sup> bucket, 600G shoes, max reach 7.59 m

7.5 m													1780*	1780*	3.95
6.0 m							2410*	2410*					1520*	1520*	5.82
4.5 m					3270*	3270*	3200*	3200*	2430*	2180			1490*	1490*	6.76
3.0 m					6520*	6520*	4650*	3400*	3130*	2040			1550*	1390	7.22
1.5 m					8470*	5620	5590*	3010	4170*	1860			1690*	1280	7.31
0 m					7260*	5050	5910*	2710	4260*	1720			1970*	1300	7.06
-1.5 m			5050*	5050*	8590*	5040	5710*	2600	4010*	1670			2530*	1490	6.44
-3.0 m			7080*	7080*	6960*	5240	4690*	2720					3140*	2050	5.34

\* Hydraulic capacity 87%



# 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 UP. Standard arm. 2.50 m arm length, 0.50 m<sup>3</sup> bucket, 600G shoes, max reach 8.29 m

7.5 m							2360 *	2360 *					1300*	1300*	5.24
6.0 m							2960 *	2960 *	2320 *	2150			1100*	1100*	6.70
4.5 m							3690 *	3430	2840	2110	1100*	1100*	1040*	1040*	7.52
3.0 m					7250*	6380	4470	3260	2730	2010	1840	1320	1040*	1040*	7.92
1.5 m					8560	5710	4190	3010	2610	1890	1780	1270	1110*	1110*	8.00
0 m			2770 *	2770 *	7950	5260	3970	2800	2500	1780	1740	1230	1240*	1150	7.77
-1.5 m			5160 *	5160 *	7960	5220	3870	2720	2450	1740			1500*	1300	7.22
-3.0 m			8100 *	8100 *	7920	5330	3920	2770	2510	1800			2060*	1660	6.26
-4.5 m					4510*	4510*	2650 *	2650 *					2200*	2200*	4.69

## CX145C SR. BLADE UP. Short arm. 2.10 m arm length, 0.55 m<sup>3</sup> bucket, 600G shoes, max reach 7.94 m

7.5 m							1980 *	1980 *					1600*	1600*	4.63
6.0 m							3200 *	3200 *	2180 *	2070			1330*	1330*	6.26
4.5 m					4580*	4580*	4370 *	3400	2780	2050			1250*	1250*	7.14
3.0 m					8030*	6250	4380	3170	2680	1950	1620*	1270	1250*	1250	7.57
1.5 m					8300	5490	4100	2920	2550	1840	1740	1230	1320*	1190	7.65
0 m					7620*	5150	3900	2740	3460	1750			1470*	1230	7.41
-1.5 m			5590 *	5590 *	7940	5210	3850	2690	2440	1730			1790*	1410	6.82
-3.0 m			8330 *	8330 *	7140*	5340	3930	2780					2500*	1870	5.80
-4.5 m					3060*	3060*							2240*	2240*	3.79

## CX145C SR. BLADE UP. Long arm. 3.00 m arm length, 0.37 m<sup>3</sup> bucket, 600G shoes, max reach 8.76 m

7.5 m							2340 *	2340 *					1270*	1270*	5.98
6.0 m							2750 *	2750 *	2290 *	2230			1110*	1110*	7.27
4.5 m							3070 *	3070 *	2730 *	2170	1930	1410	1060*	1060*	8.02
3.0 m					4640*	4640*	4250 *	3350	2790	2060	1870	1360	1070*	1060	8.40
1.5 m					8780	5890	4270	3070	2640	1920	1800	1290	1130*	1010	8.47
0 m			2790 *	2790 *	8060	5290	3990	2820	2510	1790	1740	1230	1250*	1040	8.26
-1.5 m	3860 *	3860*	4690 *	4690 *	7830	5140	3850	2690	2430	1720	1720	1210	1480*	1150	7.74
-3.0 m	5020 *	5020*	6880 *	6880 *	7900	5210	3860	2710	2460	1750			1950*	1420	6.85
-4.5 m			9040 *	9040 *	5870*	5280	3880	2810					2370*	2080	5.44

## CX145C SR. OFFSET BOOM - BLADE UP. Standard arm. 2.11 m arm length, 0.45 m<sup>3</sup> bucket, 600G shoes, max reach 7.59 m

7.5 m													1780*	1780*	3.95
6.0 m							2410 *	2410 *					1520*	1520*	5.82
4.5 m					3270*	3270*	3200 *	3200 *	2430 *	2060			1490*	1490*	6.76
3.0 m					6520*	6310*	4400	3210	2670	1920			1550*	1290	7.22
1.5 m					8070	5230	4040	2830	2490	1740			1690*	1190	7.31
0 m					7260*	4670	3710	2530	2330	1600			1780	1210	7.06
-1.5 m			5050 *	5050 *	7370	4660	3580	2410	2280	1550			2040	1390	6.44
-3.0 m			7080 *	7080 *	6960*	4860	3700	2540					2790	1910	5.34

\* Hydraulic capacity 87%

# CX C-SERIES HYDRAULIC EXCAVATORS

## CX235C SR

### Specifications

#### Engine

Model \_\_\_\_\_ Tier 4 interim certified ISUZU AM-4HK1X  
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 \_\_\_\_\_ 115 x 125 mm  
Horsepower ISO 9249 \_\_\_\_\_ 119.3 kW at 1800 min<sup>-1</sup>  
Maximum torque ISO 9249 \_\_\_\_\_ 621 Nm at 1500 min<sup>-1</sup>

#### Hydraulic system

Max oil flow \_\_\_\_\_ 2 x 211 l/min @ 1800 min<sup>-1</sup>  
2 variable displacement axial piston pumps with regulating system  
Working circuit pressure \_\_\_\_\_  
Boom/Arm/Bucket \_\_\_\_\_ 34.3 MPa  
Boom/Arm/Bucket (with auto power up) \_\_\_\_\_ 36.4 MPa  
Swing circuit \_\_\_\_\_ 29.4 MPa  
Travel circuit \_\_\_\_\_ 34.3 Mpa

#### Swing

Maximum swing speed \_\_\_\_\_ 11.8 min<sup>-1</sup>

#### Travel

Travel motor \_\_\_\_\_ Variable displacement axial piston motor  
Max travel speed \_\_\_\_\_ 5.0 km/h (Automatic travel speed shifting)  
Low travel speed \_\_\_\_\_ 3.2 km/h  
Gradeability \_\_\_\_\_ 70% (35°)  
Drawbar pull \_\_\_\_\_ 201 kN

#### Electrical system

Circuit \_\_\_\_\_ 24 V  
Alternator \_\_\_\_\_ 50 Amp

#### Undercarriage

	BLADE	LC
Number of carriers rollers (each side) _____	2	2
Number of track rollers (each side) _____	7	8
Number of shoes (each side) _____	46	49
Type of shoe _____	Triple grouser shoe	

#### Capacities

Fuel tank \_\_\_\_\_ 320 l  
Hydraulic system \_\_\_\_\_ 252 l  
Cooling system \_\_\_\_\_ 30.9 l

### Weight and ground pressure

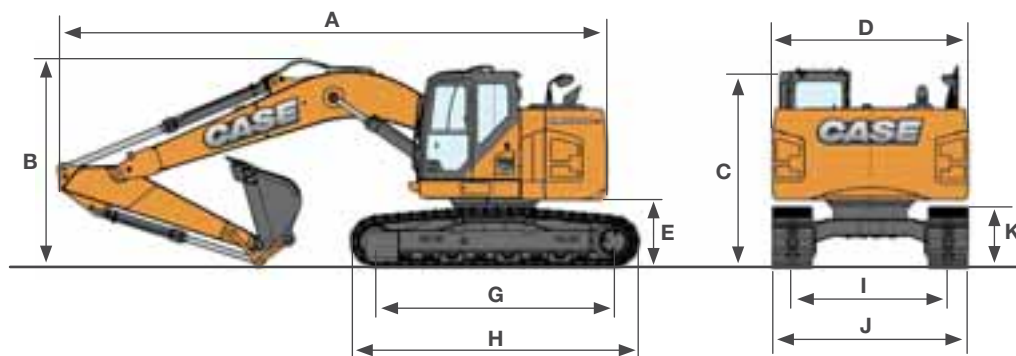
With 2.40 m Arm , 1.0 m<sup>3</sup> bucket, operator, lubricant, coolant, full fuel tank

CX235C SR LC	Weight (kg)	Ground pressure (MPa)
600 mm rubber grouser shoe	24500	0.051
600 mm grouser shoe	24100	0.05
700 mm grouser shoe	24600	0.044
800 mm grouser shoe	24900	0.039
900 mm grouser shoe	25200	0.035

With 2.40 m Arm , 1.0 m<sup>3</sup> bucket, operator, lubricant, coolant, full fuel tank

CX235C SR BLADE	Weight (kg)	Ground pressure (MPa)
600 mm rubber grouser shoe	25500	0.057
600 mm grouser shoe	25200	0.056
700 mm grouser shoe	25500	0.049
800 mm grouser shoe	25800	0.043

## General dimensions



### CX235C SR LC

Arm 2.40 m HD

Arm 2.94 m

	Arm 2.40 m HD	Arm 2.94 m
Overall length (without attachment)	4470 mm	4470 mm
<b>A</b> Overall length (with attachment)	8920 mm	8830 mm
<b>B</b> Overall height (with attachment)	3180 mm	3090 mm
<b>C</b> Cab height	3140 mm	3140 mm
<b>D</b> Upper structure overall width	2990 mm	2990 mm
Swing (rear end) radius	1720 mm	1720 mm
<b>E</b> Clearance height under upper structure	1020 mm	1020 mm
<b>F</b> Minimum ground clearance	440 mm	440 mm
<b>G</b> Wheel base (Center to center of wheels)	3660 mm	3660 mm
<b>H</b> Crawler overall length	4470 mm	4470 mm
<b>I</b> Track gauge	2390 mm	2390 mm
<b>J</b> Undercarriage overall width (with 600 mm shoes)	2990 mm	2990 mm
<b>K</b> Crawler tracks height	920 mm	920 mm

### CX235C SR BLADE

Arm 2.40 m HD

Arm 2.94 m

	Arm 2.40 m HD	Arm 2.94 m
Overall length (without attachment)	4700 mm	4700 mm
<b>A</b> Overall length (with attachment)	9300 mm	9210 mm
<b>B</b> Overall height (with attachment)	3180 mm	3090 mm
<b>C</b> Cab height	3000 mm	3000 mm
<b>D</b> Upper structure overall width	2990 mm	2990 mm
Swing (rear end) radius	1720 mm	1720 mm
<b>E</b> Clearance height under upper structure	1020 mm	1020 mm
<b>F</b> Minimum ground clearance	440 mm	440 mm
<b>G</b> Wheel base (Center to center of wheels)	3370 mm	3370 mm
<b>H</b> Crawler overall length	4180 mm	4180 mm
<b>I</b> Track gauge	2200 mm	2200 mm
<b>J</b> Undercarriage overall width (with 600 mm shoes)	2800 mm	2800 mm
<b>K</b> Crawler tracks height	920 mm	920 mm

## Blade dimensions and range

### CX235C SR BLADE

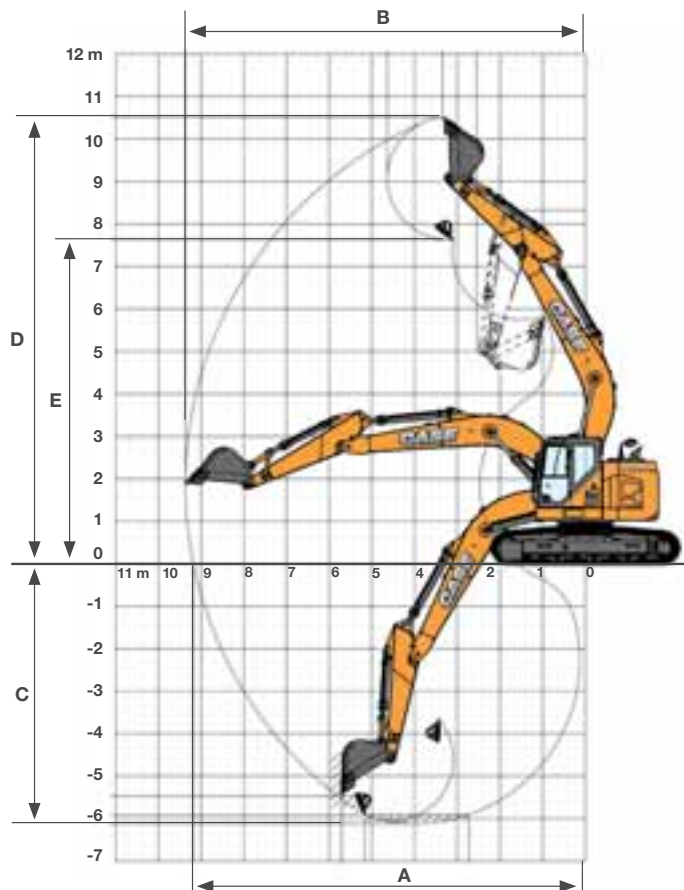
Blade dimensions (width x height)	2800/3000 x 610 mm
Blade range (up/down)	490 x 390 mm



# CX C-SERIES HYDRAULIC EXCAVATORS

## CX235C SR

### Performance data



#### CX235C SR LC/CX235C SR BLADE

#### Arm 2.40 m HD

#### Arm 2.94 m

	Arm 2.40 m HD	Arm 2.94 m
Boom length	5700 mm	5700 mm
Bucket radius	1450 mm	1450 mm
Bucket wrist action	177°	177°
A Maximum reach at GRP	9180 mm	9670 mm
B Maximum reach	9370 mm	9850 mm
C Max. digging depth	6120 mm	6650 mm
D Max. digging height	10520 mm	10860 mm
E Max. dumping height	7630 mm	7970 mm

### Digging force

With 1.0 m<sup>3</sup> bucket (ISO 6015)

#### CX235C SR LC/CX235C SR BLADE

#### Arm 2.40 m

#### Arm 2.94 m

	Arm 2.40 m	Arm 2.94 m
Arm digging force	123 kN	103 kN
- with auto power up	132 kN	110 kN
Bucket digging force	142 kN	142 kN
- with auto power up	152 kN	152 kN

# Lifting capacity

Front 360°	REACH												
	1.5 m	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	At max reach						

## CX235C BLADE. Version Short arm. 2.40 m HD arm length, 1.00 m<sup>3</sup> bucket, 600G shoes, max reach 9.03 m - Blade down

9.0 m					3510*	3510*								3730*	3730*	5.32
7.5 m					3660*	3660*	4380*	4380*						3250*	3250*	7.08
6.0 m					5130*	5130*	4910*	4860	4430*	3350				3090*	2860	8.12
4.5 m			8360*	8360*	6610*	6610*	5450*	4780	4910*	3260				3070*	2440	8.72
3.0 m			10110*	10110*	8490*	7130	6380*	4520	5280*	3130	3170*	2240		3160*	2240	9
1.5 m					9890*	6600	7170*	4270	5700*	2990				3360*	2190	9
0 m					7670*	7670*	10490*	6300	7580*	4090	5890*	2900		3710*	2280	8.72
-1.5 m	8000*	8000*	11280*	11280*	10350*	6280	7550*	4040	5780*	2880				4330*	2540	8.16
-3.0 m	11260*	11260*	13740*	12600	9610*	6390	7030*	4130						5060*	3090	7.25
-4.5 m			10860*	10860*	7710*	6590								4990*	4390	5.87

## CX235C BLADE. Version Short arm. 2.40 m HD arm length, 1.00 m<sup>3</sup> bucket, 600G shoes, max reach 9.03 m - Blade up

9.0 m					3510*	3510*								3730*	3730*	5.32
7.5 m					3660*	3660*	4380*	4380*						3250*	3250*	7.08
6.0 m					5130*	5130*	4910*	4690	4430*	3190				3090*	2720	8.12
4.5 m			8360*	8360*	6610*	6610*	5450*	4560	4740*	3100				3070*	2310	8.72
3.0 m			10110*	10110*	8490*	6780	6380*	4300	4630	2970	3170*	2120		3160*	2120	9
1.5 m					9890*	6260	6420	4060	4490	2840				3330	2070	9
0 m					7670*	7670*	9910	5960	6220	3880	4380	2470		3470	2150	8.72
-1.5 m	8000*	8000*	11280*	11200	9870	5940	6150	3830	4370	2730				3850	2400	8.16
-3.0 m	11260*	11260*	13740*	11930	9610*	6050	6240	3920						4660	2930	7.25
-4.5 m			10860*	10860*	7710*	6280								4990*	4170	5.87

## CX235C LC. Version Short arm. 2.40 m HD arm length, 1.00 m<sup>3</sup> bucket, 600G shoes, max reach 9.03 m

9.0 m					3510*	3510*								3730*	3730*	5.32
7.5 m					3660*	3660*	4380*	4380*						3250*	3250*	7.08
6.0 m					5130*	5130*	4910*	4880*	4430*	3360				3090*	2860	8.12
4.5 m			8360*	8360*	6610*	6610*	5450*	4810	4910*	3270				3070*	2440	8.72
3.0 m			10110*	10110*	8490*	7200	6380*	4540	5100	3130	3170*	2240		3160*	2240	9
1.5 m					9890*	6660	7070	4290	4950	3000				3360*	2190	9
0 m					7670*	7670*	10490*	6360	6910	4140	4840	2900		3710*	2280	8.72
-1.5 m	8000*	8000*	11280*	11280*	10350*	6340	6840	4050	4830	2890				4250	2540	8.16
-3.0 m	11260*	11260*	13740*	12850	9610*	6450	6860	4140						5060*	3100	7.25
-4.5 m			10860*	10860*	7710*	6650								4990*	4410	5.87

\* Hydraulic capacity 87%

# CX C-SERIES HYDRAULIC EXCAVATORS

## CX235C SR

### Lifting capacity

Front 360°	REACH						
	1.5 m	3.0 m	4.5 m	6.0 m	7.5 m	9.0 m	At max reach

#### CX235C BLADE. Version Standard arm. 2.94 m arm length, 0.90 m<sup>3</sup> bucket, 600G shoes, max reach 9.51 m - Blade down

9.0 m						2930 *	2930 *						2490*	2490*	6.17
7.5 m						3980 *	3980 *	2850 *	2850*				2190*	2190*	7.71
6.0 m						4430 *	4430 *	4020 *	3460				2090*	2090*	8.66
4.5 m			4990 *	4990 *	5680*	5680*	5000 *	4880 *	4610 *	3360	2980*	2380	2080*	2080*	9.22
3.0 m			10960 *	10960 *	7890*	7300	6050 *	4640	5050 *	3210	4000	2310	2150*	2080	9.49
1.5 m			8870 *	8870 *	9600*	6790	6940 *	4370	5570 *	3060	4430*	2240	2290*	2040	9.48
0 m			8500 *	8500 *	10440*	6410	7520 *	4160	5880 *	2940	3850*	2190	2530*	2100	9.22
-1.5 m	7310 *	7310*	10920 *	10920 *	10470*	6290	7610 *	4060	5880 *	2890			2950*	2310	8.69
-3.0 m	9960 *	9960*	14670 *	12570	10020*	6360	7330 *	4100	5440 *	2960			3720*	2740	7.85
-4.5 m	14280 *	14280*	12330 *	12330 *	8610*	6570	6120 *	4330					4940*	3660	6.58

#### CX235C BLADE. Version Standard arm. 2.94 m arm length, 0.90 m<sup>3</sup> bucket, 600G shoes, max reach 9.51 m - Blade up

9.0 m						2930 *	2930 *						2490*	2490*	6.17
7.5 m						3980 *	3980 *	2850 *	2850*				2190*	2190*	7.71
6.0 m						4430 *	4430 *	4020 *	3300				2090*	2090*	8.66
4.5 m			4990 *	4990 *	5680*	5680*	5000 *	4700	4610 *	3200	2980*	2260	2080*	2080*	9.22
3.0 m			10960 *	10960 *	7890*	7000	6050 *	4420	4720	3050	3460	2190	2150*	1970	9.49
1.5 m			8870 *	8870 *	9600*	6440	6530	4160	4560	2910	3380	2120	2290*	1920	9.48
0 m			8500 *	8500 *	10030	6070	6290	3950	4430	2790	3320	2070	2530*	1990	9.22
-1.5 m	7310 *	7310*	10920 *	10920 *	9890	5950	6180	3850	4380	2740			2950*	2180	8.69
-3.0 m	9960 *	9960*	14670 *	11800 *	9880	6020	6210	3890	4450	2810			3720*	2590	7.85
-4.5 m	14280 *	14280*	12330 *	11890	8610*	6230	6120 *	4120					4940*	3470	6.58

#### CX235C LC. Version Standard arm. 2.94 m arm length, 0.90 m<sup>3</sup> bucket, 600G shoes, max reach 9.51 m

9.0 m						2930 *	2930 *						2490*	2490*	6.17
7.5 m						3980 *	3980 *	2850 *	2850*				2190*	2190*	7.71
6.0 m						4430 *	4430 *	4020 *	3470				2090*	2090*	8.66
4.5 m			4990 *	4990 *	5680*	5680*	5000 *	4900	4610 *	3360	2980*	2380	2080*	2080*	9.22
3.0 m			10960 *	10960 *	7890*	7360	6050 *	4660	5050 *	3220	3800	2310	2150*	2080	9.49
1.5 m			8870 *	8870 *	9600*	6850	6940 *	4390	5020	3070	3720	2240	2290*	2030	9.48
0 m			8500 *	8500 *	10440*	6470	6990	4180	4890	2950	3670	2190	2530*	2100	9.22
-1.5 m	7310 *	7310*	10920 *	10920 *	10470*	6350	6870	4080	4840	2900			2950*	2310	8.69
-3.0 m	9960 *	9960*	14670 *	12860	10020*	6420	690	4120	4910 *	2970			3720*	2740	7.85
-4.5 m	14280 *	14280*	12330 *	12330 *	8610*	6630	6120 *	4350					4940*	3670	6.58

\* Hydraulic capacity 87%



# Standard Equipment

## ENGINE

Isuzu 4-cylinder turbodiesel in line Certified Tier 4 interim (CEGR)  
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  
ONLY FOR CX235C SR  
(Diesel Oxidation Catalyst DOC + Diesel Particulate Filter DPF)

## 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  
ONLY FOR CX235C SR  
10 x auxiliary flow settings in memory

## UPPERSTRUCTURE

Common key vandal locks  
Swivel guard belly pan  
Rear view safety camera  
ONLY FOR CX145C SR  
Isolation mounted cab (fluid and spring)  
ONLY FOR CX235C SR

4-point isolation mounted cab (fluid and spring)

## ATTACHMENT

Bucket linkage with hook  
Boom mounted work light (70

watt)  
Auxiliary pipe brackets  
Centralized lube bank  
Attachment cushion valve  
Arm and boom regeneration  
ONLY FOR CX145C SR  
Standard boom 4.63 m  
Arm 2.50 m  
Arm and boom hose burst check valves  
ONLY FOR CX235C SR  
Standard boom 5.70 m  
Arm 2.40 m HD  
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  
ONLY FOR CX145C SR  
Travel alarm with cancel switch  
ONLY FOR CX235C SR  
Interior dome light (10 W)  
Sliding cockpit (100 mm)  
Beacon harness  
**UNDERCARRIAGE**  
600 mm steel shoes, triple semigrouser  
strutted and sealed link  
Full overlap turntable bearing tub  
Single track guide

# Options

## HYDRAULICS

Auxiliary Hydraulics -  
Single acting pedal activated breaker circuit  
Proportional control  
multifunction circuit w pressure control, proportional control  
Low-flow circuit, proportional control

## ATTACHMENT

Hydr. or mech quickcoupler  
Buckets: Extreme / Heavy duty /

GP / ditching  
Hammers, shears, grapples  
ONLY FOR CX145C SR  
Arm - 2.10 m / 3 m  
ONLY FOR CX235C SR  
Arm - 2.94 m  
**OPERATOR STATION**  
Front cab guard - vertical bars (OPG level 2)  
Front cab guard - vertical bars (OPG level 1)  
Front mesh screen

AM/FM radio w/ antenna and 2-speakers  
Side-view camera  
**UPPERSTRUCTURE**  
Auto centralized greasing system  
Rubber bumper guard (order through Service Parts)  
**UNDERCARRIAGE**  
Steel shoes, triple semi-grouser  
ONLY FOR CX235C SR  
700 mm, 800 mm, 900 mm: (swamp)

600 mm Rubber link tracks  
Triple track guide  
ONLY FOR CX145C SR  
500 mm, 600 mm, 700 mm  
500mm Rubber link tracks  
Double track guide

Standard and optional equipment shown can vary by country.



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**CASE CONSTRUCTION EQUIPMENT  
CONTACT INFORMATION**

**CNH UK LTD**  
Unit 4, Hayfield Lane Business  
Park, Field Lane, Auckley,  
Doncaster, DN9 3FL  
UNITED KINGDOM  
Tel: 800 2273 7373

**CNH INDUSTRIAL ITALIA SPA**  
Strada di Settimo, 323  
10099 San Mauro Torinese (TO)  
ITALIA  
Tel: 800 2273 7373

**CNH INDUSTRIAL  
DEUTSCHLAND GMBH**  
Case Baumaschinen  
Benzstr. 1-3 - D-74076 Heilbronn  
DEUTSCHLAND  
Tel: 800 2273 7373

**CNH INDUSTRIAL  
MAQUINARIA SPAIN, S.A.**  
Avda. José Gárate, 11  
28823 Coslada (Madrid)  
ESPAÑA  
Tel: 800 2273 7373

**CNH INDUSTRIAL FRANCE, S.A.**  
16-18 Rue des Rochettes  
91150 Morigny-Champigny  
FRANCE  
Tel: 800 2273 7373

*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

