



## 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 SAE J1349 NET \_\_\_\_\_ 92.2 kW at 2.200 min<sup>-1</sup>  
 Maximum torque SAE J1349 NET \_\_\_\_\_ 391 Nm at 1.800 min<sup>-1</sup>

### Hydraulic system

Max oil flow \_\_\_\_\_ 2 x142 l/min @ 2.200 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 \_\_\_\_\_ 27.9 MPa  
 Travel \_\_\_\_\_ 34.3 Mpa

### Swing

Maximum swing speed \_\_\_\_\_ 11.5 min<sup>-1</sup>

### Travel

Travel motor \_\_\_\_\_ Fixed displacement axial piston motor  
 Max travel speed \_\_\_\_\_ 4.0 km/h (Automatic travel speed shifting)  
 Low travel speed \_\_\_\_\_ 2.3 km/h  
 Gradeability \_\_\_\_\_ 70% (35°)  
 Drawbar pull \_\_\_\_\_ 190 kN

### Electrical system

Alternator \_\_\_\_\_ 50 Amp

### Undercarriage

Number of carriers rollers (each side) \_\_\_\_\_ 2  
 Number of track rollers (each side) \_\_\_\_\_ 7  
 Number of shoes (each side) \_\_\_\_\_ 46  
 Type of shoe \_\_\_\_\_ Triple grouser shoe

### Capacities

Fuel tank \_\_\_\_\_ 300 l  
 Hydraulic system \_\_\_\_\_ 165 l  
 Cooling system \_\_\_\_\_ 16.2 l

## Weight and ground pressure

With 2.60 m Arm , 0.68 m<sup>3</sup> bucket, operator, lubricant, coolant, full fuel tank

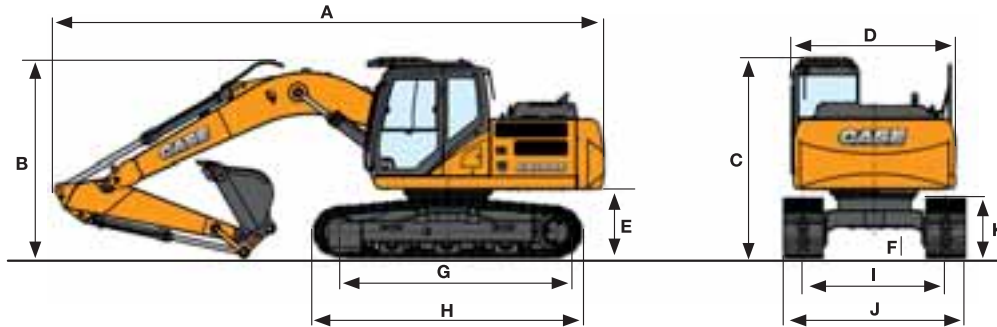
	Weight (kg)	Ground pressure (MPa)
600 mm grouser shoe	17.400	0.041

# CX C-SERIES HYDRAULIC EXCAVATORS

CX180C

TIER 4 INTERIM

## General dimensions



Arm 2.20 m      Arm 2.60 m      Arm 3.00 m

	Arm 2.20 m	Arm 2.60 m	Arm 3.00 m
Overall length (without attachment)	4500 mm	4500 mm	4500 mm
A Overall length (with attachment)	8470 mm	8440 mm	8500 mm
B Overall height (with attachment)	3090 mm	3090 mm	3130 mm
C Cab height	3090 mm	3090 mm	3090 mm
D Upper structure overall width	2540 mm	2540 mm	2540 mm
Swing (rear end) radius	2450 mm	2450 mm	2450 mm
E Clearance height under upper structure	1040 mm	1040 mm	1040 mm
F Minimum ground clearance	440 mm	440 mm	440 mm
G Wheel base (Center to center of wheels)	3370 mm	3370 mm	3370 mm
H Crawler overall length	4180 mm	4180 mm	4180 mm
I Track gauge	2200 mm	2200 mm	2200 mm
J Undercarriage overall width (with 600 mm shoes)	2800 mm	2800 mm	2800 mm
K Crawler tracks height	920 mm	920 mm	920 mm

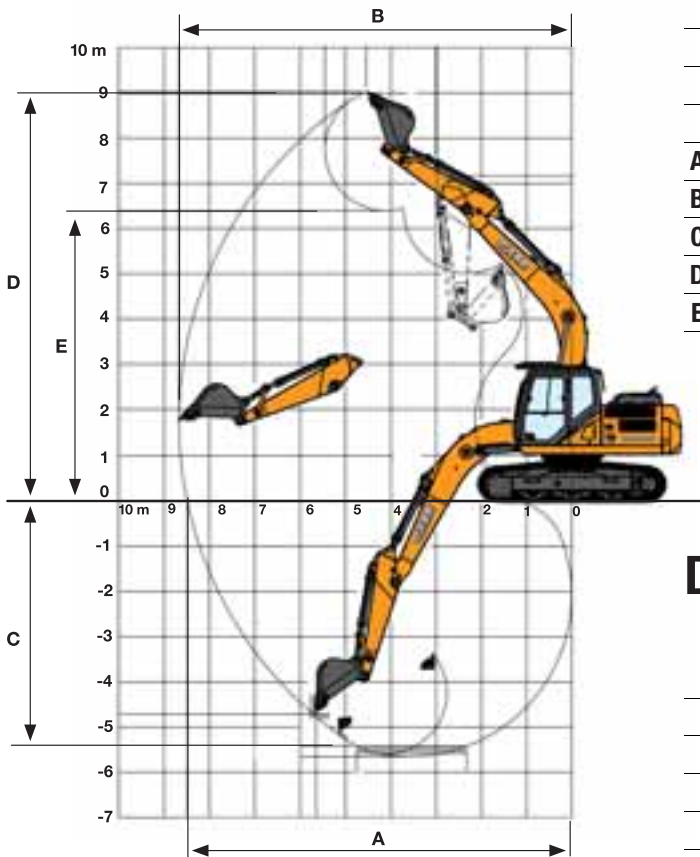
## Lifting capacity

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

Standard arm, 2.60 m arm length, 0.68 m<sup>3</sup> bucket, 600G LC shoes, max reach 9.04 m

7.5 m													1570*	1570*	6.53
6.0 m													1430*	1430*	6.69
4.5 m													1390*	1390*	8.36
3.0 m				8540*	8540*	6160*	5590	4920*	3510	3710	2410		1420*	1420*	8.68
1.5 m				8790*	8790*	7800*	5160	5180	3310	3600	2300		1520*	1520*	8.7
0 m				7490*	7490*	7990	4850	4990	3150	3510	2220		1690*	1690*	8.44
-1.5 m		6030*	6030*	9640*	8990	7850	4740	4910	3070	3490	2200		2010*	2010*	7.87
-3.0 m		8600*	8600*	12840*	9330	7890	4790	4950	3120				2660*	2490	6.95
-4.5 m		12540*	12540*	10440*	9550	7020*	5010						4630*	3630	5.5

## Performance data



	Arm 2.20 m	Arm 2.60 m	Arm 3.00 m
Boom length	5150 mm	5150 mm	5150 mm
Bucket radius	1350 mm	1350 mm	1350 mm
Bucket wrist action	178 °	178 °	178 °
A Maximum reach at GRP	8500 mm	8870 mm	9220 mm
B Maximum reach	8670 mm	9040 mm	9380 mm
C Max. digging depth	5640 mm	6040 mm	6470 mm
D Max. digging height	9030 mm	9260 mm	9310 mm
E Max. dumping height	6400 mm	6630 mm	6710 mm

## Digging force With 0.68 m<sup>3</sup> bucket (ISO 6015)

	Arm 2.20 m	Arm 2.60 m	Arm 3.00 m
Arm digging force	90 kN	79 kN	72 kN
- with auto power boost	95 kN	84 kN	77 kN
Bucket digging force	112 kN	112 kN	112 kN
- with auto power boost	118 kN	118 kN	118 kN

## Lifting capacity

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

### Short arm. 2.20 m arm length, 0.68 m<sup>3</sup> bucket, 600G LC shoes, max reach 8.67 m

7.5 m					2100*	2100*					2100*	2100*	6
6.0 m					3750*	3750*					1910*	1910*	7.26
4.5 m				4980*	4980*	4580*	3670	3380*	2480		1860*	1860*	7.97
3.0 m			9460*	9460*	6660*	5510	5220*	3480	3700	2400	1900*	1900*	8.31
1.5 m			6380*	6380*	8200*	5110	5160	3300	3600	2310	2020*	1930	8.33
0 m			7140*	7140*	7980	4850	5000	3160	3530	2240	2250*	2000	8.06
-1.5 m		6750*	6750*	10130*	9080	7980	4780	4940	3110		2670*	2250	7.46
-3.0 m		9510*	9510*	12340*	9460	7960	4860	5030	3210		3600*	2820	6.48
-4.5 m				9440*	9440*	6230*	5080				5210*	4380	4.92

### Long arm. 3.00 m arm length, 0.62 m<sup>3</sup> bucket, 600G LC shoes, max reach 9.38 m

7.5 m								2180*	2180*				1460*	1460*	7	
6.0 m								3010*	3010*	2340*	2340*		1350*	1350*	8.08	
4.5 m								3840*	3690	3010*	2550		1330*	1330*	8.71	
3.0 m				7520*	7520*	5610*	5600	4610*	3570	3730*	2440	1440*	1440*	1370*	1370*	9.02
1.5 m				11010*	10000	7340*	5250	5220	3350	3620	2320	1630*	1630*	1470*	1470*	9.04
0 m			3210*	3210*	8390*	8390*	8030	4880	5010	3160	3510	2220		1640*	1640*	8.79
-1.5 m	4600*	4600*	5680*	5680*	9640*	8940	7820	4710	4890	3050	3460	2170		1960*	1870	8.25
-3.0 m	6190*	6190*	7910*	7910*	12840*	9200	7820	4730	4900	3070				2550*	2240	7.37
-4.5 m			12550*	12550*	11340*	9450	7620*	4890	4350*	3150				4070*	3110	6.02

\* Hydraulic capacity 87%

# Standard Equipment

## ENGINE

Isuzu 4-cylinder turbodiesel in line  
Certified Tier 4 interim / EU stage  
3b

Electronic fuel injection  
High pressure common rail system  
Variable geometry turbo charger  
Exhaust gas recirculation  
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 airfilter  
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

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

## ATTACHMENT

Standard monoboam 5.15m

Arm 2.60m  
Bucket linkage with hook  
Boom mounted work light (70 watt)  
Auxiliary pipe brackets  
Centralized lube bank  
Attachment cushion valve  
Arm and boom regeneration  
Arm and boom hose burst check  
valves

## OPERATOR STATION

ROPS/FOPS level 1 cab  
FOPS guard OPG level II on cab  
roof  
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 seat  
Seat-belt  
Adjustable armrests  
Tilting consoles - 4-position  
Low-effort controls (short)  
Sliding cockpit (180 mm)

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  
Travel alarm with cancel switch

## UNDERCARRIAGE

600 mm steel shoes, triple  
semigrouser  
Full overlap turntable bearing tub  
Single track guide

# Options

## HYDRAULICS

Auxiliary Hydraulics -  
Single acting pedal activated  
breaker circuit  
Pedal-activated  
multifunction circuit  
Pedal activated low-flow circuit

## ATTACHMENT

Arm - 2.20 m / 3 m

Hydr. or mech quickcoupler  
Buckets: Extreme / Heavy duty /  
GP / ditching  
Hammers, shears, grapples

## 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  
700mm, 800mm  
Triple track guide

Standard and optional equipment shown can vary by country.

## Worldwide Case Construction Equipment Contact Information

### EUROPE:

via Plava, 80  
10135 TORINO - ITALIA

### AFRICA/MIDDLE EAST/CIS:

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6902 Paradiso - SWITZERLAND

### NORTH AMERICA/MEXICO:

700 State Street  
Racine, WI 53404 U.S.A.

### LATIN AMERICA:

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32210 - 900 Contagem - MG  
Belo Horizonte BRAZIL

### ASIA PACIFIC:

Unit 1 - 1 Foundation Place - Prospect  
New South Wales - 2148 AUSTRALIA

### CHINA:

No. 29, Industrial Premises, No. 376,  
De Bao Road, Waigaoqiao Ftz, Pudong,  
SHANGHAI, 200131, P.R.C.

## CASE Construction Equipment

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**CASE** Customer  
Assistance  
**00800-2273-7373**

The call is free from a land line. Check  
in advance with your Mobile Operator if  
you will be charged.



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  
reserves the right to modify machine specifications without incurring any  
obligation relating to such changes.

Conforms to directive 2006/42/CE

