HYDRAULIC EXCAVATOR

CASE CONSTRUCTION

SINCE 1842.

CX490C

ENGINE

Brand	ISUZU
Model	GH-6UZ1XKSS-01
Type	4-stroke engine, water-cooled, 6 cylinder-in-line common rail injection system, turbocharged with air-cooled intercooler, with tier 3 emission certification.
Rating Power	
Net (SAE J1349, ISO 9249)	328 hp (245 kW) @ 2000 rpm
Gross (ISO 14396)	362 hp (270 kW) @ 2000 rpm
Piston displacement	9839 cc
Maximum torque	
Gross (ISO 14396)	1005 lbf.ft (1363 Nm) @ 1500 rpm (without ventilator pump)
Bore and stroke	4.7 x 5.7 in (120 x 145 mm)
Voltage	24 V
Alternator	50 A
Starter engine	24 V 5,5 kW

ELECTRICAL SYSTEM

Engine control

1 - Quadrant type acceleration control
2 - Touch idling / automatic deceleration / automatic idling shutdown system
3 - Emergency shutdown

Lights	
1 - Work lights	
Top	24 V 70 W X 1
Boom	24 V 70 W X 2
Cabin	24 V 70 W X 2
2 - Operator's cabin compartment	24 V 10 W X 1
Battery	2 X 12 V 128 Ah/5hr

Safety

1 - Travel alarm
2 - Double horn

Wiring	Waterproof connectors

HYDRAULIC SYSTEM

Main pumps	2 axial piston pumps with variable flow and adjustment system
1 - Max. oil flow	2 x 105.6 gpm (400 l/min) @ 2000 rpm
2 - Work circuit pressure	
Boom/Arm/Bucket	4550 psi (31.4 MPa) 4975 psi (34.3 MPa) with Auto Power Up
Swing circuit	4260 psi (29.4 MPa)
Travel circuit	4975 psi (34.3 MPa)
Pilot pump	1 gear pump
1 - Max. oil flow	7.9 gpm (30 l/min)
2 - Work circuit pressure	566 psi (3.9 MPa)
Control valve	With boom and arm retention valve. One 4-spool valve with arm, boom and bucket acceleration and right track movement. One 5-spool valve for the left track movement, auxiliary, oscillation, arm and boom acceleration.
Swing device	
1 - Motor	Axial piston motor and fixed displacement
2 - Brake	SAHR type
3 - Final control	Epicyclic gear reduction
4 - Rotating table bushing	Ball type with internal gear
5 - Max. turning speed	9,0 rpm
6 - Turn torque	110.634 lbf.ft (150 kN.m)

Cylinder	Qty	Diam.Bore	x	Diam.Rod	x	Stroke
Boom	2	6.7 in (170 mm)	x	4.5 in (115 mm)	x	5 ft 1 in (1550 mm)
Arm	1	7.8 in (200 mm)	x	5.5 in (140 mm)	x	5 ft 11 in (1820 mm)
Bucket	1	6.5 in (165 mm)	x	4.5 in (115 mm)	x	4 ft 2 in (1285 mm)

HYDRAULIC CONTROLS

Boom/arm/bucket/turn	Pilot pressure control system (ISO standard control)
Travel	Pilot pressure control system
Work mode selection	
1 - Mode SP	
2 - Mode H	
3 - Mode Auto	
Travel mode selection	(2 speeds)
Accessory dampening control	
Hydraulic block (door block, left side tilt console)	
Inverse rotation ventilator system	

MONITORING SYSTEM

1 - Message screen (Warning. Situation, etc…)
2 - Work mode screen (SP, H, Auto)
3 - Machine condition (Power boost, etc…)
4 - Alarm and buzzer screen
5 - Water temperature
6 - Hydraulic oil temperature
7 - Fuel level
8 - Diagnose System

OPERATOR'S ENVIRONMENT

Operator's cabin

1 - Round shaped cabin with a smooth design
2 - Safety glass on all windows
3 - Cabin suspension through 4 hydraulic dampers
4 - Sliding front window with automatic block
5 - Color LCD screen
6 - Membrane switch on the display screen
7 - Windscreen wipers and washer
8 - AM/FM radio with automatic tuner
9 - Floor carpet
10 - Hinged skylight
11 - Automatic air conditioning
12 - Top FOPS defense level 1 (on the cabin's structure)
13 - Internal noise level 72 dBa (According to ISO 6396)

Operator's seat

1 - Suspension seat with upholstered cloth
2 - Sliding and reclining seat

Other

1 - Back mirror (cabin side and right side)

UNDERCARRIAGE

Drive motor	Axial piston motor with variable cylinder capacity
Brake	SAHR
Hydraulic service brake	Brake valve
Final control	Epicyclic gear reduction
Travel speeds	
High	3.3 mph (5,3 km/h) (automatic speed change)
Low	2 mph (3,2 km/h)
Drawbar push	76435 lbf (340 kN)
Quantity of upper rollers	2 (on each side)
Quantity of lower rollers	9 (on each side)
Quantity of shoes	50 (on each side)
Type of shoes	Triple grouser shoe
Link pitch	8.9" (228.6 mm)
Track width - STD	1' 11" (600 mm)
Grade-ability	70% (35°)

COOLING SYSTEM

Fan	3' 4" (1016 mm) with 6 blades
Radiator capacity	188 hp (140.3 kW)
Fin type	Corrugated (Wave type)
Fin space	0.07" (1.75 mm)
Long-life coolant	55% coolant, 45% water
Oil cooler capacity	142.8 (106.5 kW)
Air interchanger capacity	53.6 hp (40 kW)
Fin type	Straight
Fin space	0.08" (2,0 mm)
Fuel cooler capacity	5 hp (3.72 kW)
Fin type	Corrugated (Wave type)
Fin space	0.09" (2.25 mm)
Cooling fan drive system	
(1) Pump	1 vane pump
(2) Motor	Fixed displacement axial piston motor
Filters	
Suction filter	105 µm
Return filter	6 µm
Pilot line filter	8 µm

EXCAVATION FORCE WITH 3.1 YD³ (2,4 m³) BUCKET

ISO 6015 Arm	8 ft 3 in (2,53 m)	10 ft 3 in (3,13 m)
Arm digging	57776 lbf (257,0 kN)	49773 lbf (221,4 kN)
With AUTO power up	63171 lbf (281 kN)	54381 lbf (241,9 kN)
Bucket digging force	54696 lbf (243,3 kN)	54696 lbf (243,3 kN)
With AUTO power up	59754 lbf (265,8 kN)	59754 lbf (265,8 kN)

OPERATING WEIGHT

Operating weight

105380 lb (47.800 kg)
With 8' 3" (2,53 m) arm, 3.1 yd³ (2,4 m³) bucket, 1' 11" (600 mm) track shoes, operator, lubricant, coolant and full fuel tank

Shipping weight

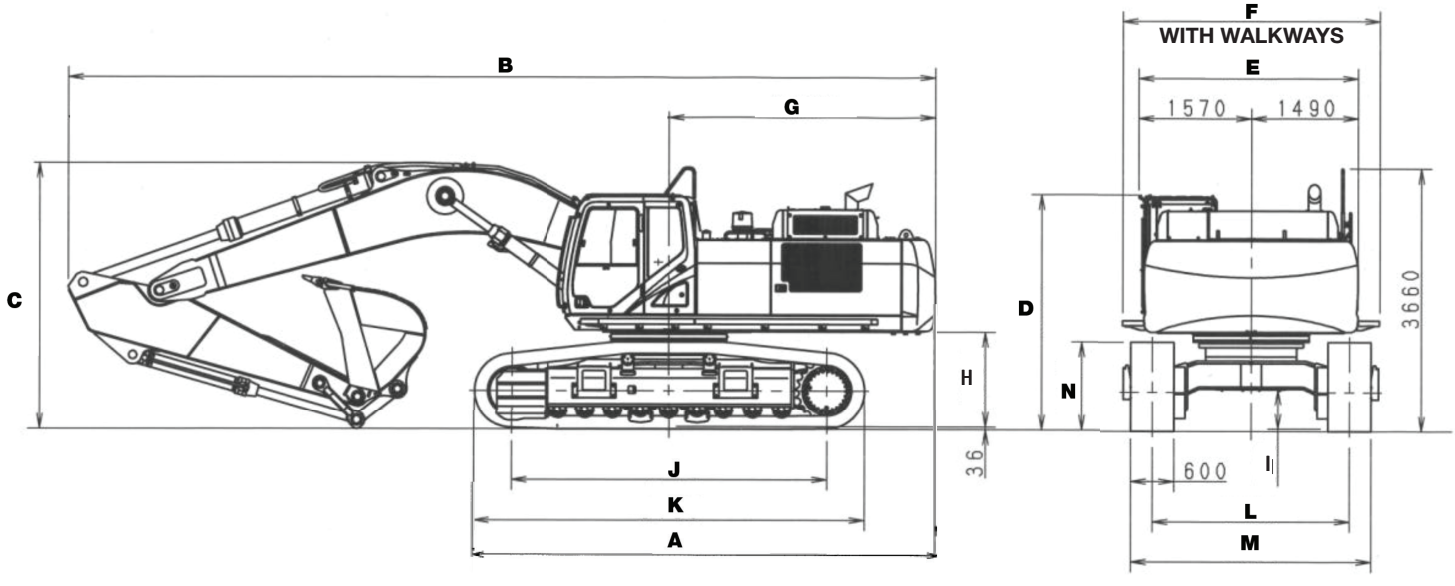
98766 lb (44.800 kg)
Operating weight – Operator's weight 165 lb (75 kg) + 90% of the fuel weight 1069 lb (485 kg) + bucket weight 6261 lb (2400 kg)

Counterweight 20282 lb (9.200 kg)

Ground pressure

11.9 psi (0,84 kg/cm²)
With 8' 3" (2,53 m) arm, 3.1 yd³ (2,4 m³) bucket, 1' 11" (600 mm) track shoes

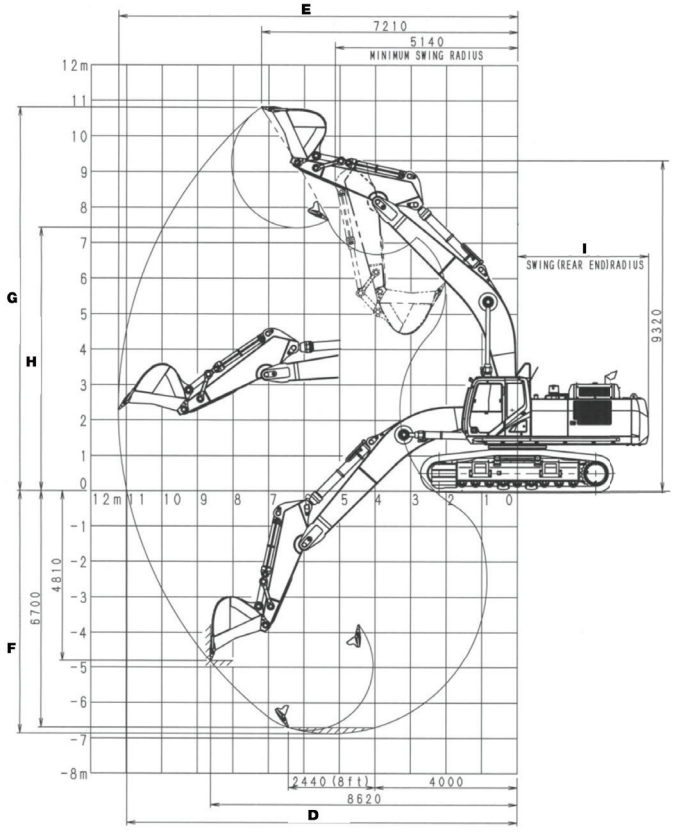
TRANSPORT DIMENSIONS



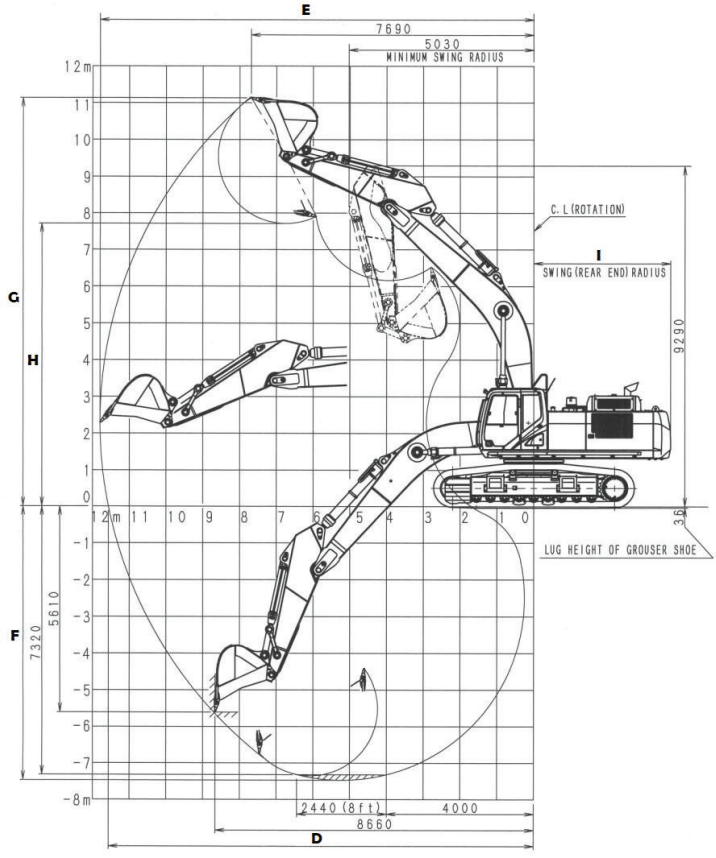
Arm	8 ft 3 in (2,53 m)	10 ft 3 in (3,13 m)
A. Total length (without accessory)	21' 1.7" (6445 mm)	21' 1.7" (6445 mm)
B. Total length (with accessory)	39' 8.7" (12110 mm)	39' 8.7" (12110 mm)
C. Total height (with accessory)	11' 11" (3650 mm)	12' 2.4" (3720 mm)
D. Cab height	10' 9.5" (3290 mm)	10' 9.5" (3290 mm)
E. Upper structure total width (without bridge)	10' (3060 mm)	10' (3060 mm)
E. Upper structure total width (with bridge)	11' 9.3" (3590 mm)	11' 9.3" (3590 mm)
G. Rotation radius (back)	12' 2.8" (3730 mm)	12' 2.8" (3730 mm)
H. Clearance height under upper structure	4' 4.3" (1330 mm)	4' 4.3" (1330 mm)
I. Minimum ground clearance	1' 8.5" (540 mm)	1' 8.5" (540 mm)
J. Distance between shafts (from center to center of the wheels)	14' 5.2" (4400 mm)	14' 5.2" (4400 mm)
K. Crawler overall length	17' 10" (5450 mm)	17' 10" (5450 mm)
L. Track gauge	9' (2750 mm)	9' (2750 mm)
M. Undercarriage overall width (with 600 mm shoes)	10' 11" (3350 mm)	10' 11" (3350 mm)
N. Tracks height	4' (1240 mm)	4' (1240 mm)

PERFORMANCE INFORMATION

Level excavation with 8' 3" (2,53 m) arm



Level excavation with 10' 3" (3,13 m) arm



Arm	8 ft 3 in (2,53 m)	10 ft 3 in (3,13 m)
A. Boom length	22’ 10” (6980 mm)	22’ 10” (6980 mm)
B. Bucket radius	6’ 1.2” (1860 mm)	6’ 1.2” (1860 mm)
C. Bucket rotation	176°	176°
D. Max. ground level reach	36’ 0.6” (10990 mm)	37’ 11” (11570 mm)
E. Max. reach	36’ 10” (11230 mm)	38’ 8.5” (11800 mm)
F. Max. excavation depth	22’ 6.4” (6870 mm)	24’ 4.1” (7470 mm)
G. Max. excavation height	35’ 5.5” (10810 mm)	36’ 6.1” (11130 mm)
H. Max. unload height	24’ 4.1” (7420 mm)	25’ 3.5” (7710 mm)

SERVICE CAPACITIES AND SPECIFICATIONS

	Capacities	Specifications
Hydraulic system	121.5 gal (460 l)	ISO VG 46
Hydraulic deposit	60.7 gal (230 l)	ISO VG 46
Fuel tank	171.7 gal (650 l)	(Diesel)
Cooling system	12.4 gal(47 l)	Coolant 55% 45% water
Final drive case (on each side)	4 gal (15 l)	API GL-4 90
Swing drive case	2.8 gal (10,5 l)	API GL-5 90
Engine crank case (with remote oil filter)	9.5 gal (36 l)	API CD SAE 10W-30

Short arm 8 ft 3 in (2.53 m), Bucket 3.1 jd³ (2.4 m³)

	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		30 ft (9 m)		34 ft 5 in (10.5 m)		MAXIMUM REACH		
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	ft (m)
30 ft (9 m)									11728 lb (5320 kg)*	11728 lb (5320 kg)*					14506 lb (6580 kg)*	14506 lb (6580 kg)*	28 ft 5 in (8.67 m)
25 ft (7.5 m)									20017 lb (9080 kg)*	20017 lb (9080 kg)*	18562 lb (8420 kg)*	15520 lb (7040 kg)			13933 lb (6320 kg)*	13051 lb (5920 kg)	31 ft 9 in (9.69 m)
20 ft (6 m)							23920 lb (10850 kg)*	23920 lb (10850 kg)*	22288 lb (10110 kg)*	21318 lb (9670 kg)	19577 lb (8880 kg)*	15145 lb (6870 kg)			13756 lb (6240 kg)*	11111 lb (5040 kg)	33 ft 11 in (10.34 m)
15 ft (4.5 m)					39198 lb (17780 kg)*	39198 lb (17780 kg)*	30996 lb (14060 kg)*	29431 lb (13350 kg)*	24713 lb (11210 kg)*	14550 lb (6600 kg)	21076 lb (9560 kg)*	14550 lb (6600 kg)	18099 lb (8210 kg)	10582 lb (4800 kg)	13911 lb (6310 kg)*	10008 lb (4540 kg)	35 ft 2 in (10.72 m)
10 ft (3 m)					47046 lb (21340 kg)*	43034 lb (19520 kg)*	35273 lb (16000 kg)	27623 lb (12530 kg)*	27094 lb (12290 kg)*	13889 lb (6300 kg)	22222 lb (10080 kg)*	13889 lb (6300 kg)	17791 lb (8070 kg)	10273 lb (4660 kg)	14440 lb (6550 kg)*	9501 lb (4310 kg)	35 ft 7 in (10.86 m)
5 ft (1.5 m)					43673 lb (19810 kg)*	39683 lb (18000 kg)	37743 lb (17120 kg)	25904 lb (11750 kg)*	28660 lb (13000 kg)*	18210 lb (8260 kg)	22773 lb (10330 kg)	13315 lb (6040 kg)	17482 lb (7930 kg)	9986 lb (4530 kg)	15388 lb (6980 kg)*	9457 lb (4290 kg)	35 ft 4 in (10.78 m)
0 ft (0 m)					46804 lb (21230 kg)*	38779 lb (17590 kg)	37919 lb (17200 kg)	24934 lb (11310 kg)*	28968 lb (13140 kg)*	17504 lb (7940 kg)	22354 lb (10140 kg)	12919 lb (5860 kg)			16953 lb (7690 kg)*	9898 lb (4490 kg)	34 ft 4 in (10.47 m)
- 5 ft (- 1.5 m)			34590 lb (15690 kg)*	34590 lb (15690 kg)*	49537 lb (22470 kg)*	39639 lb (17980 kg)	36949 lb (16760 kg)	24890 lb (11290 kg)*	28439 lb (12900 kg)*	17328 lb (7860 kg)	22156 lb (10050 kg)	12874 lb (5840 kg)			18033 lb (8180 kg)*	10956 lb (4970 kg)	32 ft 6 in (9.92 m)
- 10 ft (- 3 m)			49978 lb (22670 kg)*	49978 lb (22670 kg)*	44621 lb (20240 kg)*	40697 lb (18460 kg)*	34039 lb (15440 kg)	25309 lb (11480 kg)*	26124 lb (11850 kg)*	17681 lb (8020 kg)	18695 lb (8480 kg)*	17328 lb (7860 kg)			17548 lb (7960 kg)*	12941 lb (5870 kg)	29 ft 9 in (9.09 m)
- 15 ft (- 4.5 m)			44841 lb (20340 kg)*	47002 lb (21320 kg)*	36640 lb (16620 kg)*	36640 lb (16620 kg)*	28153 lb (12770 kg)	25661 lb (11640 kg)*	20282 lb (9200 kg)*	13271 lb (6020 kg)					16336 lb (7410 kg)*	16336 lb (7410 kg)*	25 ft 11 in (7.91 m)
- 20 ft (- 6 m)					23214 lb (10530 kg)*	23214 lb (10530 kg)*									15983 lb (7250 kg)*	15983 lb (7250 kg)*	19 ft 6 in (5.96 m)

Short arm 10 ft 3 in (3.13 m), Bucket 3.1 jd³ (2.4 m³)

	5 ft (1.5 m)		10 ft (3 m)		15 ft (4.5 m)		20 ft (6 m)		25 ft (7.5 m)		30 ft (9 m)		34 ft 5 in (10.5 m)		MAXIMUM REACH		
	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	FRONT	SIDE	ft (m)
30 ft (9 m)											15278 lb (6930 kg)*	21230 lb (9630 kg)*			9634 lb (4370 kg)*	9634 lb (4370 kg)*	31 ft 7 in (9.65 m)
25 ft (7.5 m)											16666 lb (7560 kg)*	16049 lb (7280 kg)	17482 lb (7930 kg)	17482 lb (7930 kg)	9281 lb (4210 kg)*	9281 lb (4210 kg)*	34 ft 7 in (10.55 m)
20 ft (6 m)									20216 lb (9170 kg)*	20216 lb (9170 kg)*	18276 lb (8290 kg)*	15564 lb (7060 kg)	17482 lb (7930 kg)	17482 lb (7930 kg)	9149 lb (4150 kg)*	9149 lb (4150 kg)*	36 ft 6 in (11.15 m)
15 ft (4.5 m)							27976 lb (12690 kg)*	27976 lb (12690 kg)*	22839 lb (10360 kg)*	20877 lb (9470 kg)	19621 lb (8900 kg)*	14881 lb (6750 kg)	18099 lb (8210 kg)	10582 lb (4800 kg)	9325 lb (4230 kg)*	8642 lb (3920 kg)	37 ft 8 in (11.50 m)
10 ft (3 m)					43519 lb (19740 kg)*	43519 lb (19740 kg)*	32870 lb (14910 kg)*	28571 lb (12960 kg)	25551 lb (11590 kg)*	19643 lb (8910 kg)	21142 lb (9590 kg)*	14131 lb (6410 kg)	17791 lb (8070 kg)	10273 lb (4660 kg)	9744 lb (4420 kg)*	8201 lb (3720 kg)	38 ft 1 in (11.63 m)
5 ft (1.5 m)					49427 lb (22420 kg)*	41490 lb (18820 kg)*	36398 lb (16510 kg)*	26499 lb (12020 kg)	27690 lb (12560 kg)*	18496 lb (8390 kg)	22773 lb (10330 kg)*	13404 lb (6080 kg)	17482 lb (7930 kg)	9986 lb (4530 kg)	10449 lb (4740 kg)*	8135 lb (3690 kg)	37 ft 11 in (11.56 m)
0 ft (0 m)			23258 lb (10550 kg)*	23258 lb (10550 kg)*	51455 lb (23340 kg)*	39462 lb (17900 kg)	37721 lb (17110 kg)*	25110 lb (11390 kg)	28704 lb (13020 kg)*	17570 lb (7970 kg)	22332 lb (10130 kg)	12852 lb (5830 kg)	17482 lb (7930 kg)	17482 lb (7930 kg)	11552 lb (5240 kg)*	8443 lb (3830 kg)	36 ft 11 in (11.27 m)
- 5 ft (- 1.5 m)	28285 lb (12830 kg)*	28285 lb (12830 kg)*	32187 lb (14600 kg)*	32187 lb (14600 kg)*	51455 lb (23340 kg)*	39705 lb (18010 kg)	37390 lb (16960 kg)*	24603 lb (11160 kg)	28549 lb (12950 kg)*	17085 lb (7750 kg)	22002 lb (9980 kg)	12566 lb (5700 kg)	17482 lb (7930 kg)	17482 lb (7930 kg)	13315 lb (6040 kg)*	9215 lb (4180 kg)	35 ft 3 in (10.76 m)
- 10 ft (- 3 m)	33995 lb (15420 kg)*	33995 lb (15420 kg)*	43673 lb (19810 kg)*	43673 lb (19810 kg)*	48126 lb (21830 kg)*	40168 lb (18220 kg)	35692 lb (16190 kg)*	24801 lb (11250 kg)	27381 lb (12420 kg)*	17240 lb (7820 kg)	21142 lb (9590 kg)*	12808 lb (5810 kg)			16071 lb (7290 kg)*	10626 lb (4820 kg)	32 ft 9 in (10.00 m)
- 15 ft (- 4.5 m)	45260 lb (20530 kg)*	45260 lb (20530 kg)*	57959 lb (26290 kg)*	57959 lb (26290 kg)*	41998 lb (19050 kg)*	40190 lb (18230 kg)	31658 lb (14360 kg)*	25441 lb (11540 kg)	156241 lb (70870 kg)*	17857 lb (8100 kg)					16005 lb (7260 kg)*	13205 lb (5990 kg)	29 ft 3 in (8.93 m)
- 20 ft (- 6 m)			42284 lb (19180 kg)*	42284 lb (19180 kg)*	31878 lb (14460 kg)*	31878 lb (14460 kg)*	23765 lb (10780 kg)*	23765 lb (10780 kg)*							15123 lb (6860 kg)*	15123 lb (6860 kg)*	24 ft 5 in (7.46 m)

NOTE: Machine in AUTO work mode – The loads are adopted according to the standard SAE J1097 ISO 10567 DIN 150 19-2 – The load capacities in kg indicated do not exceed the 75% of the tipping load or 87% the hydraulic elevation capacity – capacities 10567 DIN marked with an asterisk (*) are limited by the hydraulic capacity

BUCKET INFORMATION

CX490C – ISO

BUCKET	CAPACITY yd³ (m³)	WIDTH ft in (mm)	WEIGHT lb (Kg)	TEETH NUMBER	CNHI NUMBER
HD (SC)	3.68 (2,82)	6’ 2” (1879,60)	4900 (2223)	7	84422408
HD (HC)	3.21 (2,46)	4’ 8” (1422,40)	5575 (2529)	6	84404295
HD (HC)	3.62 (2,77)	5’ 1.8” (1570,80)	5875 (2665)	6	84404296
SD	4.01 (3,07)	6’ 8” (2032,00)	6400 (2903)	8	47469740

Note: HD (Heavy Duty)
SC (Standard Capacity)
HC (High Capacity)

SERIES EQUIPMENT

Operator’s Compartment
- Pressurized cabin with round shape and smooth design
- Safety glass on all windows
- Shock-less cab suspension by 4-point fluid mounting
- Sliding front window with automatic block
- Full color LCD screen included
- Membrane switch on the display screen
- Windscreen wipers and washer
- AM/FM radio with automatic tuner
- floor carpet
- Ceiling hatch of polycarbonate and sun protection
- Automatic air conditioning
- Top FOPS defense level 1 (on the cabin’s Structure)
- Rollover protection structure (ROPS)
- Operator’s seat with low frequency mechanical suspension with helical spring and double acting hydraulic damper, manual weight adjustment, back angle adjustment, adjustable armrest height attached to the consoles, adjustable headrest, self retracting seatbelt (3”) and adjustable back support
- The control consoles are adjusted independently from the seat
- Rear view mirror
- Double horn
- Travel alarm
- Joystick levers to control hydraulic functions
- Safety levers to neutralize hydraulic functions and start of the engine

Engine

Type 4-stroke engine, water-cooled, 6 cylinder-in-line common rail injection system, turbocharged with air-cooled intercooler, with tier 3 emission certification.

Electric System

Wiring with waterproof connectors

Battery	2x 12V 128 Ah/5hr
Voltage	24V
Alternator	50 A
Starter engine	5,5 kW

Hydraulic System

With ISO standardized steering control
Work mode selection Auto, H and SP
Auxiliary accessory mode
Auto power up
2 variable flow pumps
Electronic flow control
Cylinders with end cushioning.
One gear pump for pilot system
8’ 3” (2,53 m) long arm

Undercarriage

Travel	
High	3.2 mph (5,3 km/h)
	Automatic speed change
Low	2 mph (3,2 km/h)
Quantity of transport rollers:	2 (each side)
Quantity of rollers on each track	9 (on each side)
Number of shoes	50 (on each side)
Shoes width	1’ 11” (600 mm)
Type of pad	Triple grousers
Track width	9’ (2750 mm)
Track length	17’ 10” (5450 mm)
Track guide	Simple

Sealed and lubricated chains

ISO Conformitie

ROPS	12117-2:2008
FOPS level 1	10262:1998
Seat belt	6683:2005
Operator’s seat	11112:1995
Seat vibration	7096:2000
Operator’s primary controls, functional information, symbols for operator controls and other displays	10968:2004 / 6011:2003 6405-1:2004 / 6405-2:1993 / 6682:1995
Machine-control systems	15998:2008
Visibility	5006:2006 14401-1:2004 / 14401-2:2004
Sound level	
Internal	6396:2008
External	6395:2008
Ground contact pressure	16754:2008
Digging force	6015:2006
Terminology and commercial specifications	7135:2009
Lift capacity	10567:2007

OPTIONAL EQUIPMENT

Cabin
- Seat with air suspension
- 2 options for front stone protection.
- Level 2 FOPS superior protection
- Rain deflector
- Sun screen

Undercarriage

2’ 5” (750 mm) and 2’ 11.4” (900mm) track shoes
Triple track guide

Accessories
- 10’ 3” (3,13 m) HD arms
- Heavy Duty bucket and link with hook
- Six options for auxiliary accessory
- Additional handrails Rh + Lh
- Safety valve for the boom

Other
- Rear view camera
- Side view camera
- Refueling pump

SiteWatch™ Fleet monitoring and tracking management system through satellite or mobile phone

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