HYDRAULIC EXCAVATOR



CX250C LR

ENGINE

Туре	
line, Higł (electric contro	ed, 4-cycle diesel, 4-cylinder in n pressure common rail system I), Turbocharger with air cooled vith tier 3 emission certification.
Model	ISUZU GH-4HK1X
Rated flywheel hor (SAE J1349, ISO 9	-
(ISO 14396)	140.0 kW at 2000 min ⁻¹ (rpm)
Piston displaceme	nt 5193 cc
Maximum torque (SAE J1349, ISO 9	249) 622 N-m at 1800 min ⁻¹ (rpm)
(ISO 14396)	643 N-m at 1800 min ⁻¹ (rpm)
Bore and stroke	115 mm X 125 mm
Voltage	24 V
Alternator	50 Amp
Starter	24 V 5.0 kW

HYDRAULIC SYSTEM

Main pumps				
2 varial	ble displacement	axial p	oiston	oumps

	with	regulating system
Max. oil flow	2 × 234 liter/	′min at 2000 min ⁻¹
Working circuit p	ressure	
Boom Up/Arm	Out	34.3 Mpa
	36.8 MPa w	ith auto power up
Arm In		21.1 MPa
Bucket/Boom [Down	29.4 MPa
Swing circuit		27.0 MPa
Travel circuit		34.3 MPa
Pilot pump		1 gear pump
Max. oil flow		20 liter/min
Working circuit	pressure	3.9 MPa
Control valves		

With Boom/Arm holding valve One 4-spool valve for Right track travel, Bucket, Boom and Arm acceleration One 5-spool valve for Left track travel, Auxiliary, Swing, Boom acceleration and Arm

Swing device

ennig de				
Motor	Fixe	d displ	acement axial	piston motor
Brake				SAHR type
Final dr	ive		Planetary g	ear reduction
Turn ta	ble be	aring		
	E	Ball bea	aring type with	internal gear
Maximu	um sw	ing spe	eed	11.0 min ⁻¹
Swing t	orque			69,900 N-m
Cylinders	N° of	Bore	e X Rod Diam.	Stroke
Boom	2 –	ø 130	mm X ø 90 mm	X 1335 mm
Arm	1 –	ø 150 r	mm X ø 105 mm	X 1737 mm
Bucket	1 –	ø 95 r	mm X ø 65 mm	X 881 mm
Cooling s	ystem			
Fan			ø 650 mm v	with 7-blades
Radiato	or capa	acity		105.9kW
fin typ	се		Corrugated fi	n (wavy type)
fin sp	ace			1.75 mm
Long lif	e cool	ant	C	Coolant 55%,
				Water 45%
Oil coo	er cap	oacity		54.1 kW
fin typ			Corrugated fi	n (wavy type)
fin sp	ace			1.75 mm
Interco	oler ca	pacity		16.7 kW
fin typ	ре			Straight fin
fin sp				1.75 mm
Fuel co	oler ca	apacity	,	1.3 kW
fin typ	ре		Corrugated fi	n (wavy type)
fin sp	ace			2.0 mm
Filters				
Suction				105 µm
Return				6 µm
Pilot lin	e filter			8 µm

HYDRAULIC	CONTROLS
Boom/Arm/Bucket/S	Swing
	rol system (ISO control pattern)
Travel	Pilot pressure control system
Work mode select	
SP - mode	
H - mode	
Auto - mode	
Travel mode select (
Attachment cushion	
Hydraulic lock (gate	lock, left side tilt console)
ELECTRICAL	SYSTEM
Engine control	
Dial type throttle c	
	uto deceleration / Auto idle
shutdown syster	n
Emergency stop	
Monitor system	Caution,condition, etc)
Work mode display	
	(Power boost, etc)
Alarm display and	
Water temperature	
Hydraulic oil tempe	
Fuel level	
Diagnosis system	
Wire harness	Waterproof type connector
Safety	
Travel alarm	
Double horn	
Battery	2 X 12 V 92 Ah/5HR
Lights	
Working light	041/70141/4
Upper	24 V 70 W X 1
Boom	24 V 70 W X 2
Cab	0/1/70 M/V 0
Cab Operator's cab room	24 V 70 W X 2 24 V 10 W X 1

OPERATOR ENVIRONMENT	UNI
Operator's cab	Trave
Operator's cab Smooth and round shape design cab, fabricated by press work Safety glass for all windows Shock-less cab suspension by 4-point fluid mounting Sliding front window with auto lock Built-in type full-color LCD monitor display Membrane switch on monitor display Windshield wiper & washer	Brake Hydra Final Trave Hig Lov Draw
AM/FM Radio with auto-tuner Floor mat Polycarbonate roof hatch & Sun shade Auto air conditioner Top FOPS defense level 1 (in CAB structure) Roll-over protective structure (ROPS)	Numi Numi Type
Operator's seat Low frequency mechanical suspension with helical springs and double acting hydraulic damper.(Achieves ISO7096 in category EM6) With following features: Manual weight adjustment Seat height adjustment Adjustable headrest Adjustable lumbar support Backrest angle adjustment Adjustable pivoting armrests linked to consoles Retractable seat belt (3") Control consoles adjust independently of seat	Link j Widtł Grad
Others Rear view mirror (Cab side & Right side)	

DERCARRIAGE

Travel m	otor	
	Variable displac	cement axial piston motor
Brake		SAHR type
Hydrauli	c service brake	Brake valve
Final driv	/e	Planetary gear reduction
Travel sp	beeds	
High	5.5 km/h (Auto	matic travel speed shifting)
Low		3.5 km/h
Drawbar	pull	199 KN
Number	of carrier rollers	s 2
	(each side))
Number	of track rollers	9
	(each side)	
Number	of shoes	51
(e	ach side)	
Type of s	shoe	Triple grouser shoe
Link pitc	h	190 mm
Width of	shoe	800 mm (S.T.D)
Grade-al	bility	70% (35 °)

MASS

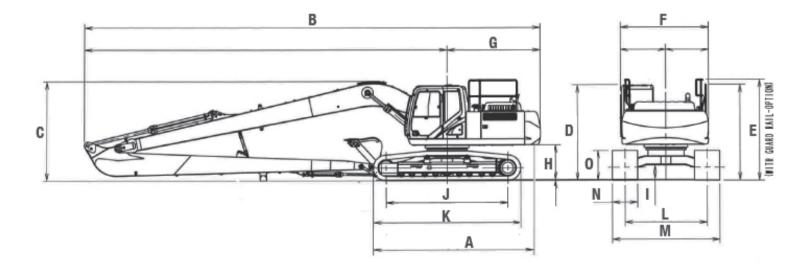
Operating weight	
28,200 kg with 8.0 m Arr	n , 0.37 m ³ Sumitomo
Bucket, 800 mm gi	rouser shoe, operator,
lubricant, co	polant and full fuel tank
Shipping weight	
27,500 kg Operating we	eight - (operator weight)
(75kg) + 90 % of fuel weight
+	bucket weight (330kg)
Counterweight	7,500 kg
Ground pressure	0.042 MPa
(with 8.0 m Arm, 0.37 ı	m ³ Sumitomo Bucket,
8	00 mm grouser shoe)

DIGGING FORCE (with 0.37 m³ Sumitomo Bucket)

(ISO 6015)	(8.0 m Arm)
Arm digging force	40 kN
Bucket digging force	77 kN

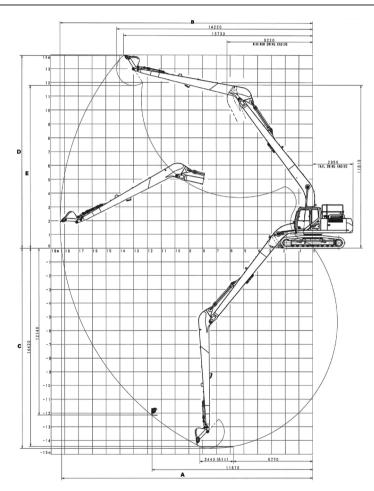
SYSTEM FLUID CAPACITIES AND SPECIFICATIONS

	Capacities	Specifications
Hydraulic system	250 liter	ISO VG 46
Hydraulic sump tank	147 liter	ISO VG 46
Fuel tank	410 liter	Light oil (Diesel)
Cooling system	30.2 liter	Coolant 55%, Water 45 %
Final drive case (per side)	5.0 liter	API GL-4 90
Swing drive case	9.7 liter	API GL-5 90
Engine crank case (With Remote Oil Filter)	23.1 liter	API CD SAE 10W-30



DIMENSIONS

	(8.00 m Arm)
A. Overall length (without attachment)	5270 mm
B. Overall length (with attachment)	14380 mm
C. Overall height (to top of boom)	3130 mm
D. Overall height (to top of cab)	3010 mm
E. Overall height (to top of guardrail)	3180 mm
F. Upper structure overall width	2770 mm
G. Swing (rear end) radius	2950 mm
H. Clearance height under upper structure	1100 mm
I. Minimum ground clearance	440 mm
J. Wheel base (Center to center of wheels)	3840 mm
K. Crawler overall length	4650 mm
L. Track gauge	2590 mm
M. Undercarriage overall width (with 800 mm shoes)	3390 mm
N. Track width	800 mm
O. Crawler tracks height	940 mm



WORKING RANGES

	(8.00 m Arm)
Boom length	10300 mm
Bucket radius	1200 mm
Bucket wrist action	178 °
A. Maximum reach at GRP	18230 mm
B. Maximum reach	18330 mm
C. Max. digging depth	14570 mm
D. Max. digging height	13960 mm
E. Max. dumping height	11770 mm

STANDARD EQUIPMENT

Operator's Compartment

Round shaped and smoothly designed cabin Safety glass on all windows Shock-less cab suspension by 4-point fluid mountina 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 chassis) 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 Back mirror Double horn Movement alarm Jovstick-like levers to control hydraulic functions Safety levers to neutralize hydraulic functions and engine start

Engine

4-stroke engine, water-cooled, 4 cylinder Common rail injection system, turbocharged with air-cooled intercooler, with tier 3 emission certification.

Hydraulic System

With ISO standardized contol system Work mode selection Auto, H and SP Auxiliary accessory mode Auto power up 2 variable flow pumps Electronic flow control Cylinders with end cushioning 1 pump for the pilot system 8.000 mm long arm 10.300 mm boom lenght

Undercarriage

Travel speeds High 5,5 km/h Automatic speed change 3,5 km/h Low Quantity of upper roller 2 (on each side) Quantity of rollers on each track 9 (on each side) Number of shoes 51 (on each side) Shoes width 800 mm triple grousers Type of shoes Track width 3390 mm Track length 4650 mm Track guide simple Sealed and lubricated chains

Electric System

Wiring with waterproof connectors		
Battery	2x 12V 92 Ah/5HR	
Voltage	24V	
Alternator	50 Amp	
Starter engine	24V 5,0 kW	



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, fu information, symbols for oper other displays	
10968	3:2004 / 6011:2003
6405-1:2004 / 6405-	2:1993 / 6682:1995
Machine-control systems	15998:2008
Visibility	5006:2006
14401-1:20	004 / 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 Accessories Bucket and link with hook Tropical cooling Hydraulic auxiliary double action Additional handrails Rh + Lh Safety valve for boom **Undercarriage** Shoes of 700 mm Triple track guide

Others

Rear view camera Side view camera Refueling pump

Site Watch[™] Fleet monitoring and management system by satellite or cel phone tracking.

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CaseCE.com

Sales Office Garin – Buenos Aires Rep. Argentina Calle 28, 920 Panamericana Km 38,5 Tel.: +54 3327-4461000

Manufacturing plants Contagem – Minas Gerais -

Contagem – Minas Gerais – Brasil Av. General David Sarnoff, 2.237 Inconfidentes – C.P. 32210-900 Tel.: +55 31 2104-3392 Sorocaba – São Paulo – Brasil Av. Jerome Case, 1.801 Éden – C.P. 18087-220 Tel.: +55 15 3334-1700

