# **CX240B MH**



## **HYDRAULIC EXCAVATOR**

#### ENGINE

BrandISUZUModelAH-4HK1XTypewater-cooled, 4-stroke diesel engine, 4 cylinders in line, injection (electric control), turbo compressor with air-cooled intercooler. This engine has tier 3 emissions certificate.Nominal horse power of the steering wheel Net (SAE J1349, ISO 9249)177.1 hp (132,1 kW) @ 2000 rpmCylinder capacity5193 ccNet torque (SAE J1349, ISO 9249)469.1 lbf.ft (636 Nm) @ 1.500 rpmBore and stroke4.5 x 4.9 in (115 x 125 mm)Voltage24 VAlternator50 AStarter energy24 V 5,0 kW		
Type water-cooled, 4-stroke diesel engine, 4 cylinders in line, injection (electric control), turbo compressor with air-cooled intercooler. This engine has tier 3 emissions certificate.   Nominal horse power of the steering wheel   Net (SAE J1349, ISO 9249)   177.1 hp (132,1 kW) @ 2000 rpm   Cylinder capacity 5193 cc   Net torque (SAE J1349, ISO 9249)   469.1 lbf.ft (636 Nm) @ 1.500 rpm   Bore and stroke 4.5 x 4.9 in (115 x 125 mm)   Voltage 24 V   Alternator 50 A	Brand	ISUZU
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Net (SAE J1349, ISO 9249)     177.1 hp (132,1 kW) @ 2000 rpm     Cylinder capacity   5193 cc     Net torque (SAE J1349, ISO 9249)     469.1 lbf.ft (636 Nm) @ 1.500 rpm     Bore and stroke   4.5 x 4.9 in (115 x 125 mm)     Voltage   24 V     Alternator   50 A	4 cylinders i turbo compre	n line, injection (electric control), essor with air-cooled intercooler.
177.1 hp (132,1 kW) @ 2000 rpm     Cylinder capacity   5193 cc     Net torque (SAE J1349, ISO 9249)   469.1 lbf.ft (636 Nm) @ 1.500 rpm     Bore and stroke   4.5 x 4.9 in (115 x 125 mm)     Voltage   24 V     Alternator   50 A	Nominal horse pow	er of the steering wheel
Cylinder capacity   5193 cc     Net torque (SAE J1349, ISO 9249)   469.1 lbf.ft (636 Nm) @ 1.500 rpm     Bore and stroke   4.5 x 4.9 in (115 x 125 mm)     Voltage   24 V     Alternator   50 A	Net (SAE J1349, IS	SO 9249)
Bore and stroke   4.5 x 4.9 in (115 x 125 mm)     Voltage   24 V     Alternator   50 A	1	77.1 hp (132,1 kW) @ 2000 rpm
469.1 lbf.ft (636 Nm) @ 1.500 rpm     Bore and stroke   4.5 x 4.9 in (115 x 125 mm)     Voltage   24 V     Alternator   50 A	Cylinder capacity	5193 cc
Bore and stroke4.5 x 4.9 in (115 x 125 mm)Voltage24 VAlternator50 A	Net torque (SAE J13	349, ISO 9249)
Voltage24 VAlternator50 A	46	69.1 lbf.ft (636 Nm) @ 1.500 rpm
Alternator 50 A	Bore and stroke	4.5 x 4.9 in (115 x 125 mm)
	Voltage	24 V
Starter energy 24 V 5,0 kW	Alternator	50 A
	Starter energy	24 V 5,0 kW

#### **ELETRICAL SYSTEM**

Engine control

1 - Quadrant type acceleration control

2 - Touch deceleration / Automatic deceleration

3 - Emergency shutdown

Lights		
1 - Work lights		
Тор		24V 70W x 1
Tow bar		24V 70W x 1
Cabin		24V 70W x 2
2 - Operator's cabin comp	partment	24V 10W x 1
Battery	2 x	12V 92 Ah/5hr
Safety		Double horn
Wiring	Waterpr	roof connector

#### 

HYDR	AU	LIC SYS	<b>S</b> 7	ЕМ					
Main pun	nps		2	axial pisto	n p	oumps and			
	•	variable flo	w	with adjustment system					
1 - Max	. oil f	low							
		2 x 61.8 gp	om	(234 l/min	) @	2000 rpm			
		uit pressure	Э						
Boo	m/Ar	m/Bucket		4974 psi (34.3 MPa)					
<u> </u>		5337 psi (3	36.8						
	circu				si (27 MPa)				
Mov	emer	nt circuit		4975 p	si (	(34.3 MPa)			
Pilot pum	ıр				1 (	gear pump			
1 - Max	. oil f	low		5.3 g	pn	n (20 l/min)			
2 - Worl	< circ	uit pressure	)	565	ps	i (3.9 MPa)			
Auxiliary	pum	0							
1 - Max	. oil f	low		16.4 g	pn	n (62 l/min)			
2 - Leve	r rota	ation/cabin	ele	vation		· · ·			
				3858 p	si (	(26.6 MPa)			
Control v	alve								
		and arm ret	en	tion valve.					
		alve for the			f th	e riaht			
		lination, bo							
		alve for the							
		nd closing,							
		eleration.	00	omation, a		ana			
		alve for low	flo	w auxiliar		ontrol			
		on and cab							
Oscillat				olo rationy.					
				nont ovial		ton onoine			
1 - Eng 2 - Brał		Fixed mov	ver			ton engine			
2 - Бrar 3 - Fina		trol				disk brake reduction			
		table bushi	na	Epicy	CIIC	reduction			
4 - 106	ung			l type with	int	ernal gear.			
5 May	+	ning speed	Jai			10.7 rpm			
		<u> </u>		D' D		<u> </u>			
Cylinder	-	Diam.Bore				Stroke			
Boom	2	5.5 in	Х	3.7 in		3 ft 10 in			
		(140 mm)		(95 mm)	(	1179 mm)			
Arm	1	4.9 in	х	3.5 in	х	4 ft 2 in			
		(125 mm)		(90 mm)	(	1280 mm)			
Inclinatio	n 1	4.7 in	х	3.3 in	х	3 ft 2 in			
(Bucket)	•	(120 mm)		(85 mm)		(985 mm)			
Cabin	1	3.9 in	x	2.3 in		1 ft 10 in			
olevation	'	(100 mm)	^	(60 mm)		(570 mm)			

#### **REFRIGERATION SYSTEM**

Ventilator	(650 mm) with 7 blades
Radiator capacity	89.8 kW (77.200 kcal/h)
Blade type	Corrugated blade
Distance between blades	2.0 mm
Long-life coolant	55% coolant Water 45%
Oil cooler capacity	54.1 kW (46.500 kcal/h)
Blade type	Wave blade
Distance between blades	1.75 mm
Intercooler capacity	18.7 kW (16.100 kcal/h)
Blade type	Corrugated blade
Blade space	1.75 mm
Fuel cooler capacity	1.3 kW (1.150 kcal/h)
Blade type	Corrugated blade
Blade space	2.0 mm
Filters	
Suction filter	105 µm
Return filter	6 µm
Pilot line filter	8 µm

#### **HYDRAULIC CONTROLS**

Tow bar/Arm/bucket/oscillation

	Pilot pressure control system (ISO control pattern)
Movement	Pilot pressure control system
Work mode selection	
(1) SP – mode	
(2) H – mode	
(3) Auto – mode	
Movement mode sele	ection (2 speeds)
Accessory dampenin	g control
Hydraulic block	
(Door lock, left side ir	nclination console)
Open/close	
Grip rotation	
Cabin elevation	

(100 mm) (60 mm) (579 mm)

elevation

#### **MONITOR SYSTEM**

- 1 Message display (warning, condition, etc...)
- 2 Work mode display (SP, H, Auto)
- 3 Machine state (power, etc.)
- 4 Alarm and buzzer indicator
- 5 Water temperature
- 6 Hydraulic oil temperature
- 7 Fuel level

8 - System diagnose

Optional anti-interference device

#### **OPERATOR'S ENVIRONMENT**

Operator's cabin

- 1 Round shaped and smoothly designed cabin
- 2 Safety glass on all windows
- 3 Impactless suspension through 4 hydraulic dampers
- 4 Sliding front window with automatic block 5 - LCD monitor exhibition
- 6 Membrane switch on the display screen
- 7 Windscreen wipers and washers 8 - Automatic air conditioning
- 9 floor carpet
- 10 Clear roof window and sun protection
- 11 Cabin hydraulic elevator
- 12 Sun glass

#### **TRANSPORT DIMENSIONS**

#### **OPERATOR'S SEAT**

Low frequency mechanic suspension with helical spring and double acting hydraulic spring. With the following functions

- 1 Manual weight, height and angle adjustment.
- 2 Adjustable rotating armrest
- 3 Adjustable headrest
- 4 Self retracting seatbelt

Other

1 - Back mirror (cabin side and right side)

#### **OPERATIONAL WEIGHT**

Operating weight

68563 lb (31.100 kg) 16' 5" (5.0 m) arm, claw 3880 lb (1760 kg)

Shipping weight

63933 lb (29.000 kg)

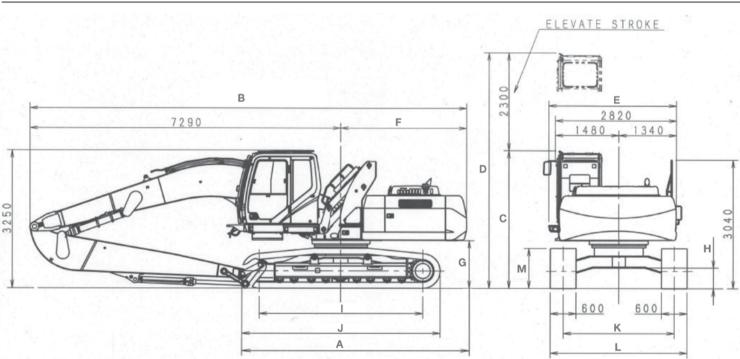
Operational weight Operator's weight 165 lb (75kg) + 90% of the fuel

weight + weight of claw 3880 lb (1760kg)

Ground pressure 88 psi (6.42 kgf/cm<sup>2</sup>) With 16' 5" (5.00 m) arm, trash grip 3880 lb (1760kg), 1' 11" (600 mm) plain pad

#### CRAWLER RAIL

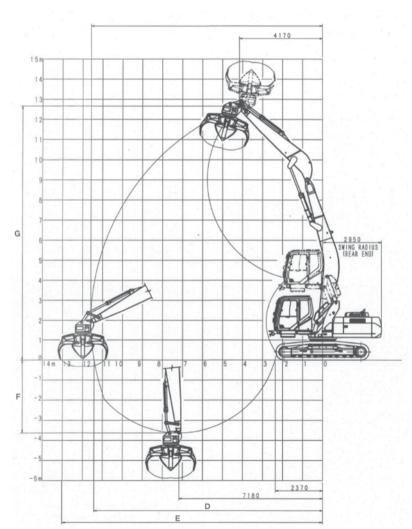
Drive engine Axia	l piston engine with variable cylinder capacity
Brake	Mechanical brake disk
Hydraulic service brake	Brake valve
Final control	Epicyclic gear reduction
Movement speeds	
High	3.4 mph (5,5 km/h)
	(automatic speed change)
Low	2.2 mph (3,5 km/h)
Quantity of upper rollers	s 2 (on each side)
Drawbar push	48558 lb (216 kN)
Quantity of lower rollers	9 (on each side)
Quantity of pads	51 (on each side)
Type of pad	Flat pad
Link movement	7.5" (190 mm)
Pad width - STD	1' 11" (600 mm)
Surge capacity	70% (35°)



#### **DIMENSIONS**

16' 5" (5.0 m)
1010.011 (5500)
18' 3.6" (5580 mm)
33' 6.7" (10230 mm)
10' 7.9" (3250 mm)
18' 2.5" (5550 mm)
9' 9.3" (2980 mm)
9' 8.1" (2950 mm)
3' 8.8" (1140 mm)
1' 6.8" (480 mm)
12' 7.1" (3840 mm)
15' 3.0" (4650 mm)
8' 5.9" (2590 mm)
10' 5.5" (3190 mm)
3' 2.1" (970 mm)

### WORK RANGE CHART



#### Trash grip mass 3681 lb (1760 kg)

#### WORK RANGE

Long Arm	16' 5" (5.0 m)
A. Tow bar length	23' 3.5" (7100 mm)
B. Oscillation radius	9' 8.1" (2950 mm)
C. Claw pivot action	177°
D. Max. reach in GRP	37' 5.6" (11420 mm)
E. Max. reach	37' 11" (11580 mm)
F. Max. excavation depth	11' 10" (3610 mm)
G. Max. height	41' 7.2" (12680 mm)

#### SYSTEM FLUIDS CAPACITIES AND SPECIFICATIONS

	Capacities	Specifications
Hydraulic system	66 gal (250 l)	ISO VG 46
Hydraulic drain tank	38.8 gal (147 l)	ISO VG 46
Fuel tank	108.3 gal (410 l)	Diesel
Cooling system	6.65 gal (25.2 l)	Coolant 55%. Water 45 %
Final control (on each side)	1.3 gal (5 l)	API GL-4 90
Oscillation mechanism	2.6 gal (9.7 l)	API GL-4 90
Engine housing (with remote oil filter)	6.1 gal (23.1 l)	API CD SAE 15W-40

#### LINING

Design and col	or							
Agreed by C	Agreed by CASE Corp and Sumitomo.							
	erior painting will be made according itomo design.							
Paint								
Cabin	Melamine resin coating for							
	stove finishing							
Other	Superior accessories and structure							
	Urethane resins coating							
Crawler rail	Modified acrylic resin coating							
Pain specifications								
The painting and type of pain shall follow								
Sumitomo's n	orms							

#### NOTE:

- Case Construction is constantly improving its products and therefore it reserves the right to modify its design and especificativos at any time.
- 2 The graphics may include optional units and may not include all the standard units.
- 3 These specifications are referred to the standard ISO 7135 (Land machinery- hydraulic excavators - Terminology and commercial specifications) second edition date 12/15/2009.

#### Standard 16 ft (5.0 m) arm grab mass for garbage 3880 lb (1760kg)

		Max. Radius	ft (m)	39 ft (12 m)	32 ft (10 m)	26 ft (8 m)	19 ft (6 m)	13 ft (4 m)	6 ft (2 m)	0 ft (0 m)	Min. Radius	ft (m)
45 ft	Front											
(14 m)	Side											
39 ft	Front	12610 lb (5720 kg)*	18 ft 5 in (5.63 m)								16159 lb (7330 kg)*	15 ft 7 in (4.77 m)
(12 m)	Side	12610 lb (5720 kg)*	18 ft 5 in (5.63 m)								16159 lb (7330 kg)*	15 ft 7 in (4.77 m)
32 ft	Front	10295 lb (4670 kg)*	27 ft 1 in (8.27 m)			11926 lb (5410 kg)*	15410 lb (6990 kg)*				15696 lb (7120 kg)*	18 ft 7 in (5.67 m)
(10 m)	Side	10295 lb (4670 kg)*	27 ft 1 in (8.27 m)			11794 lb (5350 kg)	15410 lb (6990 kg)*				15696 lb (7120 kg)*	18 ft 7 in (5.67 m)
26 ft	Front	9523 lb (4320 kg)*	32 ft 3 in (9.85 m)			13845 lb (6280 kg)*	15410 lb (6990 kg)*				15652 lb (7100 kg)*	18 ft 6 in (5.66 m)
(8 m)	Side	8113 lb (3680 kg)*	32 ft 3 in (9.85 m)			11926 lb (5410 kg)	15410 lb (6990 kg)*				15652 lb (7100 kg)*	18 ft 6 in (5.66 m)
19 ft	Front	9347 lb (4240 kg)*	35 ft 6 in (10.84 m)		11508 lb (5220 kg)	14484 lb (6570 kg)*	16843 lb (7640 kg)*				18937 lb (8590 kg)*	15 ft 7 in (4.76 m)
(6 m)	Side	6702 lb (3040 kg)	35 ft 6 in (10.84 m)		7848 lb (3560 kg)	11596 lb (5260 kg)	16843 lb (7640 kg)*				18937 lb (8590 kg)*	15 ft 7 in (4.76 m)
13 ft	Front	8994 lb (4080 kg)	37 ft 4 in (11.39 m)		11221 lb (5090 kg)	15740 lb (7140 kg)	19643 lb (8910 kg)*	27491 lb (12470 kg)*	51874 lb (23530 kg)*		55313 lb (25090 kg)*	6 ft 1 in (1.87 m)
(4 m)	Side	5952 lb (2700 kg)	37 ft 4 in (11.39 m)		7561 lb (3430 kg)	10979 lb (4980 kg)	17306 lb (7850 kg)	27491 lb (12470 kg)*	51874 lb (23530 kg)*		55313 lb (25090 kg)*	6 ft 1 in (1.87 m)
6 ft	Front	8575 lb (3890 kg)	37 ft 11 in (11.58 m)		10846 lb (4920 kg)	15344 lb (6960 kg)	227803 lb (103330 kg)*	35516 lb (16110 kg)*	(,		7936 lb (3600 kg)*	9 ft 3 in (2.82 m)
(2 m)	Side	5621 lb (2550 kg)	37 ft 11 in (11.58 m)		7209 lb (3270 kg)	10229 lb (4640 kg)	15696 lb (7120 kg)	28660 lb (13000 kg)			7936 lb (3600 kg)*	9 ft 3 in (2.82 m)
0 ft	Front	8598 lb (3900 kg)	37 ft 5 in (11.41 m)		10493 lb (4760 kg)	14638 lb (6640 kg)	22597 lb (10250 kg)	16358 lb (7420 kg)*			5754 lb (2610 kg)*	7 ft 9 in (2.37 m)
(0 m)	Side	5599 lb (2540 kg)	37 ft 5 in (11.41 m)		6878 lb (3120 kg)	9590 lb (4350 kg)	14440 lb (6550 kg)	16358 lb (7420 kg)*			5754 lb (2610 kg)*	7 ft 9 in (2.37 m)
-6 ft	Front	9171 lb (4160 kg)	35 ft 7 in (10.86 m)		10295 lb (4670 kg)	14219 lb (6450 kg)	21869 lb (9920 kg)	16755 lb (7600 kg)*			13911 lb (6310 kg)*	11 ft 5 in (3.50 m)
(-2 m)	Side	5952 lb (2700 kg)	35 ft 7 in (10.86 m)		6702 lb (3040 kg)	9215 lb (4180 kg)	13800 lb (6260 kg)	16755 lb (7600 kg)*			13911 lb (6310 kg)*	11 ft 5 in (3.50 m)
-13 ft	Front	(	(		(3)	(	(3)	(3)			(	()
(-4 m)	Side											

NOTE: Machine in AUTO work mode – The loads are adopted according to the standard SAE J1097 ISO 10567D 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.

#### SERIES EQUIPMENT

#### **Operator's compartment** Engine Pressurized cabin with round shaped and smoothly 4-stroke diesel engine, water-cooled, desianed 4 cvlinders-in-line Safety glass on all windows Injection system Common rail, turbofed with Impact-proof cabin suspension for 4 cushion intercooler, air-cooled intercooler hydraulic mounting and tier 3 emission certificate. Sliding front window with automatic block Full color LCD screen included Hydraulic system Membrane switch on the display screen With ISO standardized pilot control Windscreen wipers and washer Work mode selection Auto, H and SP Floor carpet Auxiliary accessory mode Clear roof window and sun protection 2 variable flow pumps Automatic air conditioning Electronic flow control Level 2 FOPS superior protection Cylinders with end dampening, Front stone protection 1 pump for the pilot system Sun glass 16' (5.0 m) long arm Rollover protection structure (ROPS) Tow bar for material handling Operator's seat with air suspension and Double action hydraulic auxiliary back angle adjustment, height and movable Low flow circuit armrest linked to consoles, movable headrest, Bucket link with hook self-retracting 3" seatbelt and adjustable Safety valve for the tow bar back support. The control consoles are adjusted independently from the seat Back mirror Double horn Movement alarm Joystick-like levers to control hydraulic functions Safety levers to neutralize hydraulic functions and star the engine Cabin side step Standard handrails Telematics (Sitewatch) on board with 3 years advanced subscription as standard, on machine manufactured from January, 2018

#### **OPTIONAL EQUIPMENT**

**Cabin** Rain deflector Sun screen **Hydraulic** HD link without hook Without hydraulic auxiliary **Other** Refueling pump

**Crawler rail** 1' 11" (600 mm), 2' 3.5" (700 mm), and 2' 7.5" (800 mm) pads

Triple track guide

Site Watch<sup>™</sup> Fleet monitoring and tracking management system through satellite or mobile phone

Case reserves the right to implement improvements in the project and alterations to the specifications at any time, without prior notice, and not being liable to install them in previously sold units. The specifications, descriptions and graphics correctly reflect the information known to this day in this publication. This information may vary in different regions and may be subject to changes without previous notice. The graphics may include equipment and optional accessories, and may not include all the standard units.

CCEIO008 - 3/2018 - Printed in Brazil

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#### Factories

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1' 11" (600 mm) plain track pad Simple track guide

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