HITACHI

Mini-Excavator ZAXIS40U Specifications

Rated Engine Power

DIN 6271, net 29.3 kW (39.8 PS) SAE J1349, net 29.9 kW (40.1 hp)

Operating Weight (Rubber shoes) (Grouser shoes)
2-pillar canopy version 4 210 kg 4 350 kg
4-pillar canopy version 4 270 kg 4 410 kg
Cab version 4 330 kg 4 470 kg

Backhoe Buckets

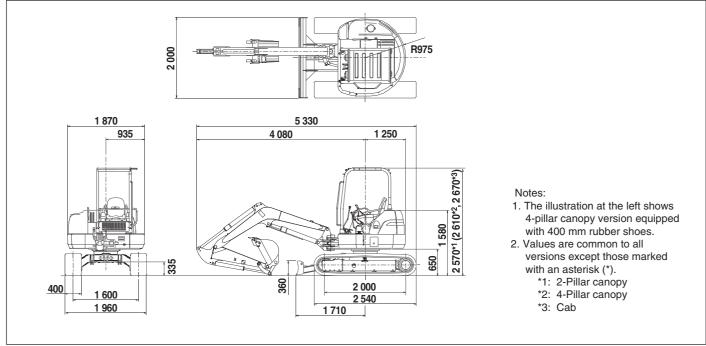
ISO 7451 0.10 - 0.17 m³

The 2- or 4-pillar canopy, or cab can be mounted on the upperstructure according to job needs and applicable regulations. The 4-pillar canopy and cab conform to TOPS (ISO 12117) and FOPS (ISO 10262, Level 1)* requirements.

* Cab requires optional top guard.

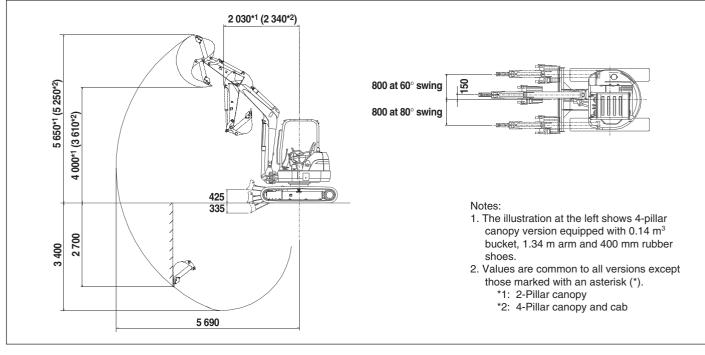
■ DIMENSIONS

Unit : mm



■ WORKING RANGES

Unit: mm







Model	Isuzu CC4LE2
Type	Water-cooled, 4-cycle, 4-cylinder
· ·	direct injection type diesel engine
Rated power	29.3 kW (39.8 PS)
DINI COTA	at 2 200 min ⁻¹ (rpm)
Rated power	29.9 kW (40.1 hp)
0.4 = 14040 .	at 2 200 min ⁻¹ (rpm)
Maximum torque	145 N·m (14.8 kgf·m)
•	at 1 600 min ⁻¹ (rpm)
Piston displacement	2.179 Ĺ
	85 mm x 96 mm
Battery	1 x 12 V, 52 Ah



HYDRAULIC SYSTEM

The HHH system for job efficiency and smooth combined operations.

Main pump	One variable displacement axial
	piston pump
Maximum oil flow	110 L/min
Pilot pump	One gear pump
Maximum oil flow	11.0 L/min

Relief Valve Settings

Implement circuit	24.5 MPa (250 kgf/cm ²)
Swing circuit	19.6 MPa (200 kgf/cm ²)
Travel circuit	24.5 MPa (250 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom raise, arm roll-in and roll-out circuits to absorb shocks at stroke ends.

Dimensions

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	No.	Bore	Rod dia.	Stroke
Boom	1	90 mm	55 mm	707 mm (696 mm)
Arm	1	80 mm	50 mm	702 mm
Bucket	. 1	70 mm	40 mm	551 mm
Boom swing	1	100 mm	50 mm	575 mm
Blade	. 1	105 mm	50 mm	140 mm

Note: The figure in () shows the stroke for 4-pillar canopy version and cab version.



CONTROLS

Hydraulic pilot control levers for all operations.



SWING MECHANISM

High-torque, axial piston motor with planetary reduction gear. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion are immersed in lubricant. Swing parking brake is springset/hydraulic-released disc type. Swing shockless valve built in swing motor absorbs shocks when stopping swing, ensuring smooth stops.



UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using carefully selected materials. Side frame welded to track frame.

Numbers of Rollers on Each Side

Upper roller1
Lower rollers4

Traction Device

Each track driven by a high-torque, 2-speed axial piston motor through planetary reduction gear, allowing counter-rotation of the tracks. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel, ensuring smooth stops. Parking brake is spring-set / hydraulic-released disc type.

Travel speeds (rubber shoes)	High : 0 - 4.4 km/h
	Low : 0 - 2.2 km/h
Travel speeds (grouser shoes).	High : 0 - 4.1 km/h
,	Low : 0 - 2.0 km/h
Gradeability	30 degrees (58%) continuous



WEIGHTS AND GROUND PRESSURE

Equipped with 2.73 m boom, 1.34 m arm and 0.14 m³ (PCSA heaped) bucket

	Operating	Ground
	weight	pressure
2-Pillar canopy version		
400 mm rubber shoes	. 4 210 kg	24 kPa (0.24 kgf/cm ²)
400 mm grouser shoes	4 350 kg	25 kPa (0.25 kgf/cm ²)
4-Pillar canopy version		
400 mm rubber shoes	. 4 270 kg	24 kPa (0.24 kgf/cm ²)
400 mm grouser shoes	. 4 410 kg	25 kPa (0.26 kgf/cm ²)
Cab version		
400 mm rubber shoes	. 4 330 kg	24 kPa (0.25 kgf/cm ²)
400 mm grouser shoes	. 4 470 kg	25 kPa (0.26 kgf/cm ²)



FRONT-END ATTACHMENTS

Backhoe Buckets

ISO Width		dth	No. of		Use		
7451 capacity	Without side cutters	With side cutters	teeth Weight		1.34 m Std. arm	1.69 m Long arm	
0.10 m ³	405 mm	450 mm	3	90 kg	Α	Α	
0.11 m ³	455 mm	500 mm	3	94 kg	Α	Α	
0.13 m^3	505 mm	550 mm	550 mm 4		Α	В	
0.14 m ³	555 mm	600 mm	4	108 kg	Α	С	
0.16 m^3	605 mm	650 mm	4	114 kg	С	С	
0.17 m ³	655 mm	700 mm	4	117 kg	С	С	
	Arm c	23.1 kN (2 360 kgf)	20.1 kN (2 050 kgf)				
	Bucke	32.2 kN (3 280 kgf)				

- A: General digging
- B: Light-duty digging
- C: Loading

Boom swing angle.....Left 60°, Right 80°



OPTIONAL EQUIPMENT

Zaxis40U

Engine

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Auto-idling system

Hydraulic System

- Hydraulic P.T.O. port
- · Hydraulic piping for breaker
- Travel parking brake
- Swing motion alarm device with lamp
- Travel motion alarm device

Operator's Room

- Heater*2
- Air cooler*3
- Seat belt*1
- Windshield washer*3 Notes: *1: For 2-pillar canopy version
- *2 : For 2- and 4-pillar canopy Wrist rest
- 12V outlet versions
- *3 : For cab version • Air cleaner inner element
- FOPS top guard*3
- 2-way control lever pattern selector valve (Excavator/Backhoe loader)

Undercarriage

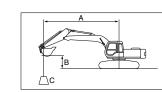
- 400 mm grouser shoes
- 400 mm triangle shoes
- 550 mm grouser shoes
- 400 mm pad crawler shoes
- · Long stay blade

Front Attachments

- 1.69 m arm
- Backhoe buckets; see page 2.

Counterweight

Weight-added counterweight (270 kg added)



A: Load radius B: Load point height C: Lifting capacity

Maximum Reach

Unit: t

Unit: t

Rating over-side or 360 degrees Rating over-front

			_ •							
Arm: 1.34 m Bucket: 0.14 m ³ ISO 7451 Rubber shoes: 400 mm	3 m	*0.96	*0.96	0.65	0.79			0.41	0.51	5.12
	2 m	1.01	1.26	0.62	0.77			0.36	0.45	5.42
	1 m	0.91	1.16	0.59	0.73	0.40	0.50	0.35	0.44	5.45
	Ground	0.87	1.11	0.56	0.70	0.39	0.49	0.37	0.46	5.22
	– 1 m	0.87	1.11	0.55	0.69			0.45	0.56	4.66

Load Radius

With dozer blade on ground

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Hydraulic System

Engine

STANDARD EQUIPMENT

Notes: *1: For 4-pillar canopy and

cab versions

*2: For cab versions

Water-separator for engine fuel system

Hydraulic pilot type control levers

• Anti-drift valve for front attachments

Pilot control shut-off levers

Two-speed travel system

Swing parking brake

Operator's Room

• Windshield wiper*2

• Evacuation hammer*2

• 400 mm rubber shoes

Semi-long stay blade

Front Attachments

• 0.14 m³ hoe bucket

Bucket clearance adjusting device

• O-ring type pin-seals for hoe bucket

■ LIFTING CAPACITIES

With dozer blade above ground

Conditions

(Equipped with 2-pillar canopy)

Load Point

Height

Two work lights

Undercarriage

• 2.73 m boom

• 1.34 m arm

HN bushing

• Heater*2

Seat belt*1

Utility box

Load Radius Maximum Reach oad Point **Conditions** Height Щ meter ["] ["] *0.96 *0.96 0.65 *0.96 0.41 *0.68 5.12 3 m Arm: 1.34 m 1.01 *1.39 0.62 *1.08 0.36 *0.69 2 m 5.42 Bucket: 0.14 m³ 0.91 *1.98 0.59 *1.28 0.35 *0.75 5.45 1 m 0.40 *1.01 ISO 7451 Rubber shoes: 400 mm 0.87 *2.13 0.56 *1.40 0.39 *1.01 0.37 *0.86 5.22 Ground – 1 m 0.87 *1.93 0.55 *1.32 0.45 *0.88 4.66

- Notes: 1. Rating are based on SAE J1097.
 - 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- 3. The load point is a hook (not standard equipment) located on the back of the bucket.
- 4. *Load limited by hydraulic capacity



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The Specifications include data that are not applicable to certain areas. Optional equipment may vary with territory specifications. Specifications are subject to change without notice.

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