HITACHI

Mini-Excavator **EX201-3**Specifications

Rated Engine Power

DIN 6271, net 13.9 kW (18.9 PS) SAE J1349, net 14.0 kW (18.8 hp)

Operating Weight

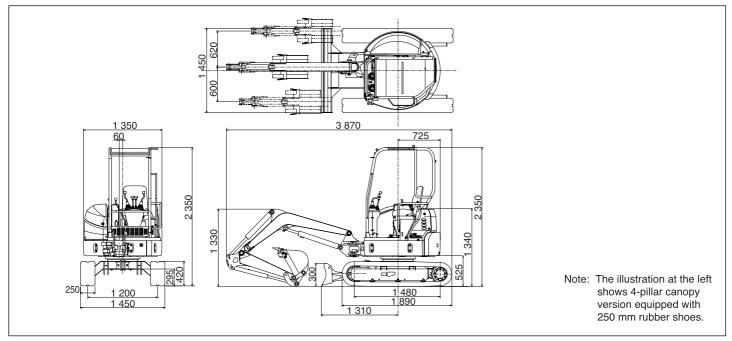
Rubber shoes 2 100 kg (4-pillar canopy) Grouser shoes 2 190 kg (4-pillar canopy)

Backhoe Buckets

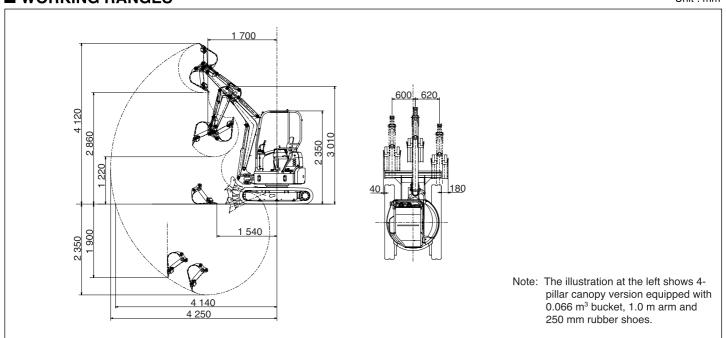
ISO 7451 0.04 – 0.09 m³

The 4-pillar canopy conforms to TOPS (ISO 12117) and FOPS (ISO 10262, Level I) requirements.
The 2-pillar canopy is also available.

■ DIMENSIONS
Unit: mm



■ WORKING RANGES Unit: mm





ENGINE

Model	Isuzu 3YE1
Type	Water-cooled, 4-cycle, 3-cylinder
	swirl chamber type diesel engine
Rated power	13.9 kW (18.9 PS)
DIN 6271, net	at 2 200 min ⁻¹ (rpm)
	14.0 kW (18.8 hp)
SAE J1349, net	at 2 200 min ⁻¹ (rpm)
Maximum torque	64.9 N·m (6.6 kgf·m)
	at 1 700 min ⁻¹ (rpm)
	1.131 L
	77 mm x 81 mm
Battery	1 x 12 V, 55 Ah



HYDRAULIC SYSTEM

The Optimum Hyraulic System (OHS) uses three pumps for job efficiency and smooth combined operations.

Main pumps	Two variable displacement axial
	piston pumps
Maximum oil flow	2 x 27.6 L/min
Third pump	One gear pump
Maximum oil flow	
Pilot pump	One gear pump
Maximum oil flow	

Relief Valve Settings

Implement circuit	20.6	MPa	(210)	kgf/cm2)
Swing circuit	20.6	MPa	(210)	kgf/cm ²)
Travel circuit	20.6	MPa	(210	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

	No.	Bore	Rod dia.	Stroke
Boom	1	70 mm	40 mm	527 mm
Arm	. 1	70 mm	40 mm	374 mm
Bucket	. 1	55 mm	35 mm	440 mm
Boom swing	. 1	65 mm	35 mm	370 mm
Blade	. 1	65 mm	35 mm	129 mm



CONTROLS

Hydraulic pilot control levers for boom, arm, bucket and swing. Mechanical linkage control levers for travel, boom swing and



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.

Swing speed	9.2 min ⁻¹ (9.2 rnm	'n



UNDERCARRIAGE

Tracks

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

Numbers of Rollers on Each Side

Lower rollers...

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.

Travel speeds (rubber shoes) High: 0 - 4.6 km/h
Low : 0 – 2.6 km/h
Travel speeds (grouser shoes)High: 0 – 4.5 km/h Low: 0 – 2.5 km/h
Gradeability30 degrees (58%) continuous



WEIGHTS AND GROUND PRESSURE

Equipped with 1.0 m arm and 0.066 m³ (ISO 7451 heaped) bucket

	Operating weight	Ground pressure
4-pillar canopy: 250 mm rubber shoes 250 mm grouser shoes		26 kPa (0.27 kgf/cm²) 28 kPa (0.29 kgf/cm²)
2-pillar canopy: 250 mm rubber shoes 250 mm grouser shoes		26 kPa (0.27 kgf/cm²) 28 kPa (0.29 kgf/cm²)



FRONT-END ATTACHMENTS

Backhoe Buckets

ISO Width			No. of		Use		
7451 capacity	Without side cutters	With side cutters	teeth	Weight	1.0 m Std. arm	1.3 m Long arm	
0.04 m ³	250 mm	300 mm	2	46 kg	Α	Α	
0.045 m ³	300 mm	350 mm	3	50 kg	Α	Α	
0.055 m ³	350 mm	400 mm	3	52 kg	Α	Α	
0.066 m ³	400 mm	450 mm	3	55 kg	Α	В	
0.08 m ³	450 mm	500 mm	3	57 kg	В	В	
0.09 m ³	500 mm	550 mm	4	63 kg	В	С	
	Arm c	11.8 kN (1 200 kgf)	9.8 kN (1 000 kgf)				
	Bucke	t digging fo	orce		19.6 kN (1 950 kgf)	

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

Boom swing angle..... ...Left 60°. Right 50°



OPTIONAL EQUIPMENT

Hydraulic System

- · Hydraulic P.T.O. port
- Hydraulic piping for breaker

Operator's Room

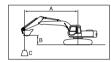
· 2-way control lever pattern selector valve (Excavator/Backhoe loader)

Undercarriage

• 300 mm grouser shoes

Front Attachments

- 1.3 m arm
- · Backhoe buckets; see page 2.



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

With blade above ground

Se

Engine

and blade

· Work lamp*

Undercarriage • 250 mm rubber shoes

• 1.88 m boom • 1.0 m arm • 0.066 m3 hoe bucket

HN bushing

· Semi-long stay blade

Front Attachments

· Bucket clearance adjusting device

· O-ring type pin-seals for hoe bucket

■ LIFTING CAPACITIES

· Seat belt* • 12V outlet

Hvdraulic System

· Two-speed travel system

Note: * For 4-pillar canopy

Swing parking brake

Operator's Room

STANDARD EQUIPMENT

· Hydraulic pilot type control levers for boom, arm, bucket and

· Mechanical linkage type control levers for travel, boom swing

· Pilot control shut-off levers for boom, arm, bucket and swing

· 4-pillar canopy. 2-pillar canopy is also available.

· Water-separator for engine fuel system

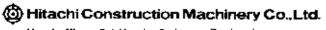
Rating over-side or 360 degrees Rating over-front

With blade above ground									Offic. I dod kg		
			Load Radius						Maximum Reach		
	Load Point	1	m	2	m	3	m	IVI	iximum Rea	cn	
Conditions	Height		Ü		Ü		ū		Ů	meter	
Arm: 1.0 m	2 m					0.30	0.36	0.18	0.21	3.95	
Bucket: 0.066 m ³ ISO 7451	1 m					0.28	0.33	0.16	0.19	4.07	
Rubber shoes: 250 mm	Ground					0.26	0.32	0.18	0.21	3.83	
4-pillar canopy	– 1 m	*1.34	*1.34	0.51	0.63	0.26	0.32	0.26	0.31	3.06	

With blade on ground

Load Radius							Maximum Reach			
Conditions	Load Point Height	1	m	2	m -	3	<u>"</u>			meter
Arm: 1.0 m	2 m					0.30	*0.46	0.18	*0.40	3.95
Bucket: 0.066 m ³ ISO 7451	1 m					0.28	*0.63	0.16	*0.43	4.07
Rubber shoes: 250 mm	Ground					0.26	*0.77	0.18	*0.51	3.83
4 millou annous	– 1 m	*1.34	*1.34	0.52	*1.16	0.26	*0.68	0.26	*0.49	3.06

- Notes: 1. Rating are based on ISO 10567
 - 2. Lifting capacity 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. An asterisk mark (*) indicates load limited by hydraulic capacity.



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This catalog is not applicable to European and North America areas	
Specifications are subject to change without notice	

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