HITACHI

Reliable solutions

ZAXIS17U



Notes: Standard and optional equipment may vary by country, please consult your Hitachi dealer for details. The machines shown on this brochure are so positioned for the sake of demonstrations. When leaving the machine, be sure to rest the bucket on the ground.



HYDRAULIC EXCAVATOR

Model Code: ZX17U-5A

Engine Rated Power: 10.6 kW (14.2 HP)
Operating Weight: Canopy 1 880 kg
Backhoe Bucket: ISO Heaped: 0.034 m³

Trustworthy and User-Friendly New Compact Excavators

The new series of Hitachi compact excavators has evolved even further.

We listen to customers' needs, provide solutions, and adopt fresh ideas into our new products.

The outcome is reflected in our new excavators that are compact, productive and nimble.

The round body is smart and its wide-opening covers provide direct access to service points for quick maintenance.

The operator station is full of easy-to-use controls, an informative monitor, and a comfortable operator seat.

ZAXIS Empower your Vision.

Operator Comfort



otes: The machines shown on this brochure are so positioned for the sake of demonstrations. When leaving the machine, be sure to rest the bucket on the groun-The machine pictured here (facing pages) is equipped with optional piping and bucket with reinforced sides and bottom plates. **Comfort x High Performance**

Operator Comfort and High Controllability

The work space is roomier than ever, despite being a mini excavator, while hydraulic pilot levers boost operating efficiency. The ZAXIS 17U is ready to get the job done on various job sites.

Hydraulic Pilot Control

Hydraulic pilot control levers provide light, smooth control of the front, blade, swing and travel. The levers are ergonomically arranged for easier and less tiring operation.



Functional Work Space

Switches, engine control levers and similar are functionally laid out, with unskilled operators in mind. The bright LCD monitor is easy to read at a



Neutral Engine Start System

The engine cannot start unless the shut-off lever is in ne lock position for safe operation.



Theft Deterrent System (Optional)

The electronic immobilizer requires the entry of a password via the each time the engine is started to prevent theft and vandalism.



Powerful Clean Engine

This powerful engine yields more production than the conventional (ZX17U-2).

ROPS/OPG (TOP Guard) 3-Pillar

The rugged 3-pillar canopy effectively protect the operator against tipping and are ruggedly designed in accordance with the ROPS* standard. All models are protected with an OPG** top guard against falling objects

*Roll-Over Protective Structure

**Operator Protective Guard



Large Roof with Rainwater Groove

A large-sized overhead roof protects the operator from sunlight and rain. Its rainwater groove drains rainwater to the rear.



Adjustable Crawlers and Blade

Crawlers can be extended and retracted by control lever: retracted for truck transport and easy access to narrow job sites; and extended for surefooted excavation.



radius 755 mm





Wide Working Ranges



Easy Maintenance

Simplified Maintenance for Everyday Use

Wide-open covers give direct, quick access to main components for easy daily inspection and servicing, such as filter replacement.



With the seat tilted up, the top of engine is exposed for easy maintenance.



Notes: The perspective view on this page shows the imaginary layout of components.



SPECIFICATIONS

ENGINE	
Model	3TNV70
Type	Water-cooled, 4-cycle, swirl combustion chamber injection type diesel engine
No. of cylinders	3
Rated power	
ISO 9249, net	10.6 kW (14.2 HP) at 2 400 min-1 (rpm)
EEC 80/1269, net	10.6 kW (14.2 HP) at 2 400 min-1 (rpm)
SAE J1349, net	10.6 kW (14.2 HP) at 2 400 min-1 (rpm)
Maximum torque	48.8 Nm (49.8 kgfm) at 1 800 min-1 (rpm)
Piston displacement	0.854 L
Bore and stroke	70 mm x 74 mm
Batteries	1 × 12 V / 36 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps	2 variable displacement axial piston pumps
	1 gear pump
Maximum oil flow	2 x 19.2 L/min
	1 x 10.8 L/min
Pilot pump	1 gear pump
Maximum oil flow	6.5 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 gear motor

Relief Valve Settings

Implement circuit	20.6 MPa (210 kgf/cm ²)
Swing circuit	13.7 MPa (140 kgf/cm ²)
Travel circuit	20.6 MPa (210 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter	Stroke
Boom (3-Pillar canopy)	1	60 mm	35 mm	435 mm
Arm	1	55 mm	30 mm	406 mm
Bucket	1	55 mm	30 mm	311 mm
Blade	1	65 mm	35 mm	94 mm
Boom swing	1	60 mm	30 mm	298 mm
Span	1	50 mm	30 mm	312 mm

UPPERSTRUCTURE

Swing Device

The axial piston motor with planetary reduction gear is bathed in oil and the swing circle is single-row. The swing parking brake is of the spring-set/hydraulic-released disc type.

•	
Swing speed	9.4 min-1 (rpm)
Swing torque	1.7 kNm (173 kgfm

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame extended by cylinder span.

Numbers of Rollers on Each Side

Lower rollers 3

Travel Device

Each track driven by a 2-speed axial piston motor. Parking brake is of the spring-set/hydraulic-released disc type.

Travel speeds High: 0 to 4.2 km/h Low: 0 to 2.4 km/h

Maximum traction force ... 11.4 kN (1 160 kgf)

SERVICE REFILL CAPACITIES	
Fuel tank Engine coolant	
Engine oil	
Travel device (each side)	
Hydraulic system	

WEIGHTS AND GROUND PRESSURE

Operating Weight and Ground Pressure

3-PILLAR CANOPY

Including 1.82 m boom and 0.034 m³ bucket (ISO heaped) counterweight 120 kg and extra piping.

Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm²)
Rubber shoe	230 mm	0.93 m	1 760 *	26.6 (0.27)

^{*} Operating weight fully serviced, +80 kg operator ISO 6016.

BUCKET AND ARM DIGGING FORCE			
Arm length	0.93 m		
Bucket digging force ISO	16.0 kN (1 630 kgf)		
Bucket digging force SAE : PCSA	12.5 kN (1 270 kgf)		
Arm crowd force ISO	8.6 kN (880 kgf)		
Arm crowd force SAE : PCSA	7.9 kN (810 kgf)		

BACKHOE ATTACHMENTS

Boom and arm are of welded, box-section design. A 1.82 m boom and 0.93 m arm are available.

Buckets

Capacity	Width				Recommendation
ISO heaped	Without side cutters	With side cutters	No. of teeth	Weight	Arm 0.93 m
0.019 m ³	250 mm	300 mm	3	32.0 kg	0
0.024 m ³	300 mm	350 mm	3	35.0 kg	0
0.029 m ³	350 mm	400 mm	3	37.0 kg	0
0.034 m ³	400 mm	450 mm	3	39.0 kg	0
0.039 m ³	450 mm	500 mm	3	41.0 kg	

O Suitable for materials with density of 2 000 kg/m³ or less

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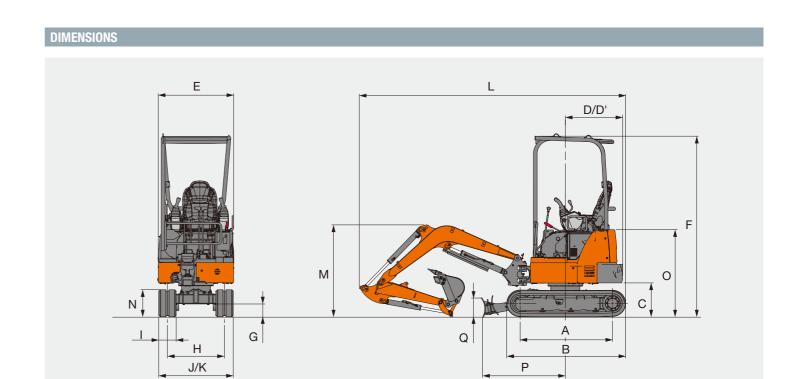
[☐] Suitable for materials with density of 1 600 kg/m³ or less

SPECIFICATIONS

WORKING RANGES meter E, I 2 С D Ground Line В meter

 $This illustration shows with 0.93\ m\ arm, 0.034\ m^3\ bucket\ and\ 230\ mm\ rubber\ shoes\ and\ heavier\ counterweight\ 240\ kg.$

	Unit: mm
	ZX17U-5A
	Arm 0.93 m
	3-Pillar Canopy
A Max. digging reach	3 810
A' Max. digging reach (on ground)	3 720
B Max. digging depth	2 190
C Max. cutting height	3 540
D Max. dumping height	2 510
D' Min. dumping height	1 040
E Min. swing radius	1 530
F Max. vertical wall digging depth	1 840
G Front height at Min. swing radius	2 770
H Min. level crowding distance	1 230
I Working radius at Min. swing radius (Max. boom-swing angle)	1 060
J Blade bottom highest position above ground	285
K Blade bottom lowest position above ground	225
L/L' Offset distance	355 / 555
Max. boom-swing angle (deg.)	70 / 50



This illustration shows with 0.93 m arm, 0.034 m³ bucket and 230 mm rubber shoes and heavier counterweight 240 kg.

	Unit	: mm
	ZX17U-5A	
	3-Pillar Canopy	
A Distance between tumblers	1 210	
B Undercarriage length	1 570	
C Counterweight clearance	450	
D Rear-end swing radius	755 (680)	
D' Rear-end length	755 (680)	
E Overall width of upperstructure	990	
F Overall height of cab	2 380	
G Min. ground clearance	165	
H Track gauge (Retract / Extend)	750 / 1 050	
I Track shoe width	230	
J Undercarriage (Blade) width (Retract / Extend)	980 / 1 280	
K Overall width (Retract / Extend)	990 / 1 280	
L Overall length	3 500	
M Overall height of boom	1 210	
N Track height	370	
O Engine cover-height	1 150	
P Horizontal distance to blade	1 090	
Q Blade height	260	

Data in () are dimensions of counterweight 120 kg.

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LIFTING CAPACITIES (Without bucket)

- Notes: 1. Ratings 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 the center-line of the bucket pivot mounting pin on the arm.
 4. *Indicates load limited by hydraulic capacity.
 5. 0 m = Ground.

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

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

ZX17U-5 3-Pillar Canopy Version, Blade above Ground					Rating over-front Rating over-side or 360 degrees Unit: 1 000 kg						
		Load	Load radius						At max. reach		
Conc	Conditions	point height m	1.0 m		2.0 m		3.0 m		At IIIax. reacii		
			ů	©	ů	©	ů	©	ů	©	meter
Arm 0.93 r Counterwe 120 kg	oom 1.82 m	2							0.26	0.25	2.98
	ounterweight	1			0.45	0.42	0.25	0.23	0.22	0.21	3.27
	20 kg ubber shoe	0 (Ground)			0.42	0.39	0.24	0.22	0.22	0.21	3.15
23	30 mm	-1	*1.12	*1.12	0.42	0.39			0.30	0.28	2.58

ZX17U-5 3-Pillar Canopy Version, Blade on Ground						Rating over-front Rating over-side or 360 degrees Unit: 1 000 kg				
	Load point height m	Load radius						At max. reach		
Conditions		1.0 m		2.0 m		3.0 m		At max. reach		
		ů	©	ů	-	ů	©	ů	@	meter
Boom 1.82 m	2							*0.40	0.25	2.98
Arm 0.93 m Counterweight	1			*0.70	0.42	*0.44	0.23	*0.41	0.21	3.27
120 kg Rubber shoe	0 (Ground)			*0.81	0.39	*0.46	0.22	*0.42	0.21	3.15
230 mm	-1	*1.12	*1.12	*0.63	0.39			*0.42	0.28	2.58

EQUIPMENT

Swing parking brake Travel parking brake Two-speed travel system Valve for extra piping

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.

Standard equipment O: Optional equipment

	• . Stark	aara oqa	ipriione O . Optional	oquipiriorit
	UNDERCARRIAGE		MISCELLANEOUS	;
•	Retractable undercarriage	•	Theft deterrent system*	0
•	Rubber shoe 230 mm	•		

ENGINE		3-PILLAR CANOPY	
Air cleaner double filters	•	Anti-slip plate	•
Cartridge-type engine oil filter	•	Arm rests	•
Dust-proof indoor net	0	Electric horn	•
Fuel main filter	•	Floor mat	•
Radiator reserve tank	•	ROPS/OPG canopy	•
Water-separator for engine fuel	•	Seat belt	•
		Spare power supply	•
		Suspension seat	•

HYDRAULIC SYSTEM		
•		
•	UPPER STRUCTURE	
0	Counterweight 120 kg	0
ral 🕳	Heavier counterweight 240 kg	•
engine start system		0
•		
•		
	•	UPPER STRUCTURECounterweight 120 kg

•

FRONT ATTAC	HMENTS
Arm 0.93 m	•
Boom 1.82 m	•
Extra piping	0
HN bushing	•

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^{*} Hitachi Construction Machinery cannot be held liable for theft, any system will just minimize the risk of theft.



Hitachi Environmental Vision 2050

Our Environmental Vision envisions a low-carbon society; a resource efficient society; a harmonized society with nature. To achieve such a sustainable society, we have established a set of long-term environmental targets called Hitachi Environmental Innovation 2050.

Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040



Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in color and features. Before use, read and understand the Operator's Manual for proper operation.

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 www.hitachi-c-m.com

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