HITACHI



HYDRAULIC EXCAVATOR

- Model Code: ZX17U-2

- Engine Rated Power: 11.0 kW (14.8 HP)
 Operating Weight: 1 750 2 020 kg
 Backhoe Bucket: ISO Heaped: 0.02 0.05 m³

Versatile excavator with adjustable width for efficient use in various applications—smooth movement in confined spaces, as well as powerful operation in open areas

- Rear end Swing Radius: 675 mm
- Minimum Width: 980 mm
- Powerful Engine





Compact Body with Short Rear End

The compact short rear end design allows efficient operation even in confined spaces.

Adjustable Foot Crawler and Blade

The unit width is adjustable from 1 280 mm to 970 mm during jobs for travelling in narrow spaces, thanks to the adjustable foot crawler. Pin-detachable blade provides easier width adjustment.

Notes: Some of the pictures in this catalog show an unmanned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.

Powerful Operation



Three-Cylinder Engine with More Powerful and Larger Exhaust Capacity

Two different travel speeds are available: high (4.3 km/h) and low (2.4 km/h)—making transport of the machine through the jobsite more efficient and smooth.

A new tread pattern has been applied for the rubber shoe and operating vibration has been suppressed.

- Engine rated power: 11 kW
- Total piston displacement: 854 ml (cc)



Hydraulic Pilot Control Levers

Hydraulic pilot operation levers provide smooth control and easy operation.

Two Travel Speeds Provided

Strong Boom

Ribbed and

Cylinder Cover

reinforced boom cylinder cover

provides higher

impact resistance.

Two different travel speeds are available, making transport of the machine through the jobsite more efficient and smooth.



Additional Counterweight (Optional)

An additional counterweight is also available for increased stability.

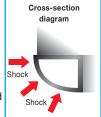
- Additional counterweight: 80 kg
- * Additional counterweight is standard for the cab

Comprehensive Durability Features



D-Shape Frame Protects The Body from Mechanical Shocks

D-shape cross section frame is attached all around the lower end of



main body. This shock-proofing feature (patent pending) protects the body from unexpected shocks.



Large Single Pin for Swing Post

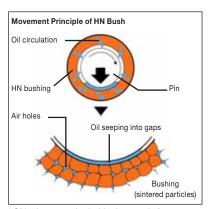
The vertical pin of the swing post employs a large single pin for reducing backlash.

HN Bushing



Reliable, job-proven HN bushings are used at all pin joints at the front and the blade. The lubrication intervals have been extended to 500 hours, contributing to reduced

scraping and grinding of the pins and bushings.



* Oil is shown seeping in this photograph, for purposes of illustration



Enhanced Rubber Shoe

The new tread pattern applied for the enhanced rubber shoe delivers greater durability.

Wealth of convenient design features

- Full-Open Type Side Cover
- Fuel Tank Capacity of 19.5 Litres
- Neutral Engine Start Feature



Simple, Time-Saving Maintenance



Vertical Sliding Engine Cover

Vertical sliding engine cover enables easy maintenance even in confined spaces. When opened, the cover does not interfere with inspection or operation and provides easy access. (Patent pending)



Huge Capacity Fuel Tank with Wide Inlet

The operating time between refueling has been extended.



Full-Open Type Side Cover

Full-open type side cover is provided for easier maintenance



Splitting Front Hose for Easy Maintenance

Front hose can be separated on the back of the boom. If the hose is damaged, this allows for easier replacement.



External Fuel Gauge

For ease in checking fuel levels, an external fuel gauge is provided at the front.



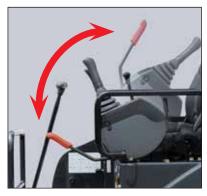
Bucket Hose Stored in Arm

Bucket hose is stored in the arm to prevent damage.

Operator Comfort / Comprehensive Safety Features



Sufficient Operator Space



Lock Lever Allows Lock/Neutral Engine Starting

A convenient lock lever lets you shut off all operations—not only forward motion and turning, but also traveling, blade and swing operations. It also prevents inadvertent operation errors.

Note: Adjustable lever of crawler cannot be locked

Neutral Engine Start

Neutral engine start feature allows engine starting only when the lock lever is in the lock position.

ROPS/OPG (Top guard) Canopy / ROPS Cab

The 3-pillars canopy and cab with top guard is designed to be fully compliant with worldwide safety standards. It complies with OPG specifications and also ROPS specifications.

Also, TOPS 2-pillars canopy is optionally.

ROPS: Roll-Over Protective Structures prevents injury in tipping accidents

in tipping accidents
OPG (Top guard): Operator Protective Guard protects

from falling objects
TOPS: Tip-Over Protection Structure



Door Opening Lock System (Cab equipped machines)

The door opening lock system is a device to prevent the machine from being unexpectedly operated even if the control levers are accidentally moved, such as with a part of the body or when the cab door is opening.



Easy-View Monitor

Enhanced Theft Protection

For higher security, a numerical key lock system is optionally available.



Various Equipment

■ Seat back box



■ Seat belt



■ Slip-free step







SPECIFICATIONS

ENGINE

Model Yanmar 3TNV70

Water-cooled, 4-cycle, 3-cylinder swirl

Type combustion chamber injection type diesel

engine

Rated power

Piston displacement .. 0.854 L (854 cc)
Bore and stroke 70 mm x 74 mm
Batteries 1 x 12 V/36 Ah

HYDRAULIC SYSTEM

The proven 3-pump system and arm regenerative circuit have been improved to make combined operations and fine control easier and smoother.

Main pumps 2 variable displacement axial piston pumps

Relief Valve Settings

Main pumps circuit	20.6 MPa	(210 kgf/cm ²)
Third pumps	20.6 MPa	(210 kgf/cm ²)
Pilot circuit	3.9 MPa	(40 kaf/cm ²)

Hydraulic Cylinders

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

Dimensions

	Quantity	Bore	Rod diameter	Stroke
Boom (Canopy)	1	60 mm	35 mm	435 mm
Boom (Cab)	1	60 mm	35 mm	423 mm
Arm	1	60 mm	35 mm	406 mm
Bucket	1	55 mm	30 mm	311 mm
Boom swing	1	60 mm	30 mm	391 mm
Blade	1	65 mm	35 mm	94 mm

CONTROLS

Hydraulic pilot control levers for all operations. Mechanical linkage control levers only for variable legs.

SWING MECHANISM

High-torque, orbit motor. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion are immersed in lubricant.

Swing speed 8.9 min⁻¹ (rpm)

UNDERCARRIAGE

Tracks

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

Numbers of Rollers on Each Side

Lower rollers 3

Travel Device

Each track driven by a high-torque, 2-speed axial piston motor through planetary reduction gear, allowing counter-rotation of the tracks.

Travel speeds High: 0 to 4.3 km/h
(with rubber shoes) Low: 0 to 2.4 km/h
Gradeability 58% (30 degree) continuous

WEIGHTS AND GROUND PRESSURE

Equipped with 0.93 m arm and 0.044 m^3 (ISO 7451 capacity) bucket with canopy.

Operating weight	Ground pressure
1 850 kg	29 kPa (0.30 kgf/cm²)
1 900 kg	30 kPa (0.31 kgf/cm²)
1 830 kg	29 kPa (0.29 kgf/cm²)
1 880 kg	30 kPa (0.30 kgf/cm²)
2 050 kg	31 kPa (0.31 kgf/cm²)
2 100 kg	32 kPa (0.32 kgf/cm²)
	1 850 kg 1 900 kg 1 830 kg 1 880 kg 2 050 kg

^{*} Additional counterweight is standard for the cab

SERVICE REFILL CAPACITIES

Fuel tank	19.5 L
Engine coolant	2.7 L
Engine oil	3.1 L

BACKHOE ATTACHMENTS

BUCKETS

BOOKETO							
ISO 7451 capacity	Wic	dth	No. of teeth	\Maight	Front Attachment		
150 7451 Capacity	Without side cutters	With side cutters	No. or teetii	Weight	0.93 m arm	1.13 m arm	
0.020 m ³	250 mm	300 mm	3	32.0 kg	А	А	
0.035 m ³	300 mm	350 mm	3	34.6 kg	А	А	
0.040 m ³	350 mm	400 mm	3	36.6 kg	А	А	
0.044 m ³	400 mm	450 mm	3	38.6 kg	A	В	
0.050 m ³	450 mm	500 mm	3	40.9 kg	В	С	
Arm crowd force			10.3 kN (1 050 kgf)	9.1 kN (930 kgf)			
Bucket digging fo	orce				16.0 kN (1 630 kgf)	16.0 kN (1 630 kgf)	

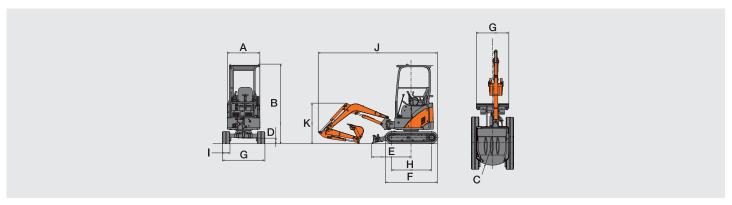
A: General digging

B: Light-duty digging

C: Loading

SPECIFICATIONS

DIMENSIONS



The illustration shows the ZX17U-2 equipped with 0.93 m arm and 230 mm rubber shoes.

The 3-pillars canopy and cabin conform to ROPS (ISO 3471) and OPG (Top guard) (ISO 10262, Level 1) requirements.

The 2-pillars canopy conform to TOPS (ISO 12117).

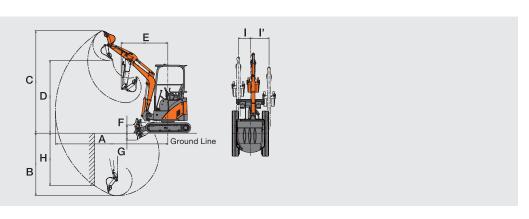
Unit: mm

			ZX17U-2				
		3-pillars canopy	2-pillars canopy	cab			
Α	Overall width	980	980	1 010			
В	Overall height	2 400	2 38	30			
С	Rear-end swing radius (Add. counterweight)	675 (755)	675 (755)	755			
D	Minimum ground clearance		165				
Е	Horizontal distance of blade installation		1 180				
F	Undercarriage length		1 570				
G	Undercarriage (Blade) width (Extend / Retract)		1 280 / 970				
Н	Distance between tumblers		1 210				
- 1	Track shoe width		230				
J	Maximum transport length (Folding roll bar)		3 590				
K	Overall height of boom		1 220				

Sizes shown in parentheses apply when the crawler and blade are contracted.

Additional counterweight is standard for the cab.

WORKING RANGES



The illustration shows the ZX17U-2 equipped with 0.044 m³ bucket, 0.93 m arm and 230 mm rubber shoes.

Unit: mm

			Unit: mn					
		ZX17U-2						
	3-pillars canopy	2-pillars canopy	cab					
A Maximum digging reach		3 900						
B Maximum digging depth		2 170						
C Maximum cutting height	3 560	3 560	3 410					
D Maximum dumping height	2 530	2 530	2 400					
E Minimum swing radius (At maximum boom swing)	1 610 (1 320)	1 610 (1 320)	1 730 (1 420)					
F Blade bottom highest position above ground		285	•					
G Blade bottom lowest position above ground		240						
H Maximum vertical wall	1 830							
I / I' Offset distance (Maximum boom-swing angle)		420/650						

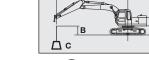
Sizes shown in parentheses apply when the crawler and blade are contracted.

LIFTING CAPACITY/EQUIPMENT

Metric measure

- Notes: 1. Ratings are based on ISO 10567.
 - 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 the centre-line of the bucket pivot mounting pin on the arm.
 - 4. *Indicates load limited by hydraulic capacity.
 - 5. 0 m = Ground.

ZX17U-2 BLADE ABOVE GROUND



Α

A: Load radius

B: Load point height

Unit: 1 000 kg

Unit: 1 000 kg

Unit: 1 000 kg

C: Lifting capacity

Rating over-front Rating over-side or 360 degrees Unit: 1 000 kg

Conditions				Load	At max, reach						
	Load point	1.0 m		2.0 m		3.0 m		At Illax. Teach			
	height	Ů	•	Ů	•	Ů	•	Ů	•	meter	
		2.0 m					0.28	0.27	0.27	0.26	3.07
Arm 0.93 m Rubber shoes 230 mm		1.0 m			0.48	0.47	0.27	0.27	0.23	0.23	3.36
	0 (Ground)			0.46	0.45	0.26	0.26	0.24	0.23	3.24	
	-1.0 m	*1.30	*1.30	0.46	0.45			0.31	0.30	2.66	

ZX17U-2 BLADE ON GROUND

Conditions			Load radius							At max, reach		
		Load point 1.0		0 m 2.0		0 m 3.0 m			At max. reach			
	height	Ů		Ů		Ů		Ů		meter		
	2.0 m					*0.40	0.27	*0.41	0.26	3.07		
Arm 0.93 m	1.0 m			*0.76	0.47	*0.45	0.27	*0.41	0.23	3.36		
Rubber shoes 230 mm	0 (Ground)			*0.87	0.45	*0.48	0.26	*0.43	0.23	3.24		
	-1.0 m	*1.30	*1.30	*0.67	0.45			*0.42	0.30	2.66		

ZX17U-2 BLADE ABOVE GROUND, LONG ARM

Conditions	Load point	1.0) m	Load 2.0	radius I m	3.0) m		At max. reach	
	height	Ů		Ů		Ů	-	Ů	-	meter
	2.0 m					0.28	0.27	0.24	0.24	3.27
Arm 1.13 m	1.0 m			0.49	0.47	0.27	0.26	0.21	0.21	3.53
Rubber shoes 230 mm	0 (Ground)			0.45	0.44	0.26	0.25	0.22	0.21	3.43
	-1.0 m	*1.08	*1.08	0.45	0.44			0.27	0.27	2.90

ZX17U-2 BLADE ON GROUND, LONG ARM

Conditions				Load	At max, reach						
	Load point	1.0	1.0 m		2.0 m		3.0 m		At max. reach		
	height	Ů		Ů	-	ů		Ů		meter	
	2.0 m					*0.36	0.27	*0.37	0.24	3.27	
Arm 1.13 m	1.0 m			*0.69	0.47	*0.43	0.26	*0.38	0.21	3.53	
Rubber shoes 230 mm	0 (Ground)			*0.87	0.44	*0.48	0.25	*0.39	0.21	3.43	
	-1.0 m	*1.08	*1.08	*0.73	0.44			*0.41	0.27	2.90	

STANDARD EQUIPMENT

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

ENGINE

• Neutral engine start system

HYDRAULIC SYSTEM

- Hydraulic pilot type control levers
- Pilot control shut-off levers
- Two-speed travel system
- Piping for attachments

OPERATOR'S ROOM

- ROPS 3-pillars canopy
- Seat belt
- 12 V outlet
- Work light
- Heater (Only as for the cab specifications)

UNDERCARRIAGE

- 230 mm rubber shoes
- Blade

FRONT ATTACHMENTS

- O-ring type pin-seals for hoe bucket
- HN bushing
- 1.82 m boom
- 0.93 m arm

OPTIONAL EQUIPMENT

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

OPERATOR'S ROOM

- TOPS 2-pillars canopy
- Cab
- Radio (Only as for the cab specifications)

UNDERCARRIAGE

• 230 mm steel shoes

FRONT ATTACHMENTS

- 1.13 m arm
- Backhoe buckets

COUNTERWEIGHT

- Additional counterweight: 80 kg
- * Additional counterweight is standard for the cab

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in colour and features.

Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery

www.hcme.com

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