# **HITACHI**





# **HYDRAULIC EXCAVATOR**

- Model Code: ZX30U-3F
   Engine Rated Power: 21.3 kW (28.5 HP)
   Operating Weight: 3 080 3 360 kg
   Backhoe Bucket: 0.09 m³



# **Wealth of convenient design features**

#### **Clean and Powerful**



Powerful 3-Cylinder Engine with Ample Displacement

High dependability and availability are achieved behind the time-tested high-powered engine.

 The new engine complies with the Emission Regulations EU Stage III A



The machine pictured above includes optional equipments.

#### **Quiet, Fuel-Efficient Operation**

#### **High Fuel Efficiency (Eco Zone)**

The machine can get the job done with less fuel and more production. Optimal control of engine speed and torque as well as hydraulic pressure achieves high fuel efficiency and production. The new setting of the Eco Zone boosts fuel economy and operating efficiency.

#### **Smooth Combined Operations**

The proven 3-pump hydraulic system and arm regenerative circuit are further improved for more efficient simultaneous operations, including digging, leveling and wall cutting.

#### **Hydraulic Pilot Control Levers**

Hydraulic pilot operation levers provide smooth control and easy operation.



# Automatic Travel Speed Control at High Speed

During high-speed travel, when the load is increased for steering for example, travel speed is lowered automatically and smoothly. When the load is decreased, travel speed is resumed accordingly.



# Additional Counterweight (Optional)

When using a heavy front attachment such as a fork grapple, the additional counterweight is easily mounted for higher stability.

• Additional counterweight: 190 kg



#### **Auto-Idle Saves Fuel Consumption**

When shifting the control lever to neutral, engine speed slows automatically down to idling speed four seconds later, reducing fuel consumption, emissions and noise. This feature is advantageous when working in urban residential districts requiring special environmental awareness.

# **A Solid Base for a Long Life**

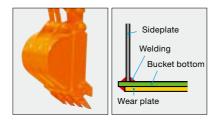
#### **Reinforced Front Attachment**

The front attachment is redesigned for higher strength and reliability. The boom top is strengthened for less jerking due to wear.



#### **WC\* Thermal Spraying**

WC thermal spraying is done at contact surfaces between arm top and bucket to reduce wear and jerking. \*Tungsten Carbide



#### **Durable Flat-Bottom Bucket**

The flat-bottom bucket is provided standard to minimize bucket bottom wear. Wide wear plates are welded to the bucket bottom for increased durability.



Single Swing Pin

A single large swing pin is used to eliminate jerking.



#### Reinforced Boom Top

The boom top bracket, using hightensile steel, reduces boss wear and jerking.



#### **Job-Proven HN Bushings**

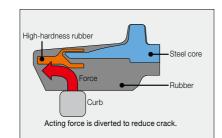
The field-proven HN bushing, a Hitachi original, is utilized at each front pin join to reduce jerking and servicing. Lubricating interval is a long 500 hours.

#### **Reinforced Undercarriage**



#### **Rainforced Blade**

The box-section stay is utilized at the blade for higher durability.



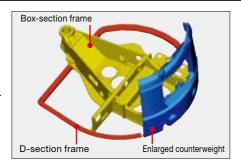
#### **New-Structure Rubber Crawlers**

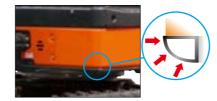
The Hitachi-developed rubber crawlers are highly durable, featuring a steelcored structure that protects shoe edges from being damaged even when riding on curbs.

#### Reinforced Upperstructure

#### **Enlarged Counterweight and Weighted** Undercarriage

The box-section frame is adopted, combining low weight and high durability. The enlarged counterweight and weighted undercarriage help lower the center of gravity and increase stability.





#### **Reinforced D-Shaped Frame**

The machine frame is reinforced with a D-shaped frame that protects against damage and impact by obstructions.

A New Standard in Operator-Comfort-

#### Largest-in-Class Cab Space

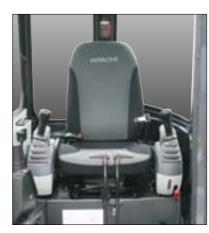
The cab space, conforming to the European standards, is the largest among the mini excavators for pleasant, efficient operation.

#### **Short-Stroke Levers**

Fingertip-control, short-stroke levers are utilized for long, continuous operation with less fatigue.

#### **Bright Cab Interior Coloring**

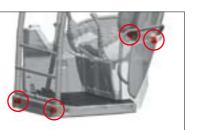
A new color scheme is adopted to the cab interior and controls for pleasant operation.



#### High Backrest (Cab)

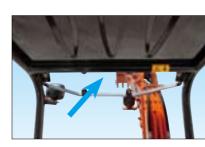
The high backrest is utilized to hold the operator comfortably for long-hours operation. Backrest is increased in height, and formed to hold the operator well.

Pictured is a cab specification.



#### **Rubber Mounted Floor**

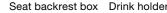
The cab rests on 4 shock-absorbing rubber mounts to ensure comfortable operation.



Shown is a cab specification, including options such as multi-function levers.

**Improved Visibility with Roof Visor** (Canopy)

# **Miscellaneous Devices**







AM-FM radio (cab)



Tool box (canopy)

# Wealth of Convenient Design Features

#### **Conveniently Located Servicing Points**



#### **Simplified Daily Maintenance**

quick replacement.

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unauthorized personnel, non-conformity to ROPS may occur.

The engine cover can slide up and down for quick servicing even in confined space. No more swing-open cover that obstructs maintenance and servicing jobs.

The full-open cover provides direct access to exposed devices inside for easy

maintenance. The cab can be tilted up for easy inspection and servicing. (In daily

maintenance, there is no need for cab tilting-up.) Split hydraulic hoses are used for

\*When using the floor tilt mechanism, consult your nearest Hitachi dealer. If bolts are removed or installed by



#### Uses Tracks Promoting Easy Mud Removal

The X-beam track frame is smooth for mud removal. This shortens machine washing time and reduces disposal costs, too.



#### Finned Radiator and Oil Cooler for Effective Cooling

**Easy to Repair Steel Cover** 

recyclable and economical.

A steel cover is utilized for tough

operation, allowing easy repair if

damaged. The steel cover is durable,

The radiator and oil cooler, made of rust-resistant aluminum, are integrated with wavy fins for effective cooling. Fins are easy to clean and hard to be packed with dirt.



The grease bath type swing gear extends lubricating intervals up to 500 hours for easy maintenance.

# Hydraulic Oil Circulation Type Swing Reduction Gear

The swing reduction gear is a hydraulic oil circulation type that does not need cumbersome gear oil change.

Long-life hydraulic oil extends replacement interval up to 2000 hours.

## **Comprehensive Safety Features**



#### Pilot-Control Shut-Off Lever

All operations-front, swing, travel and blade-can be shut off by locking the pilot control shut-off valve. This effectively prevents accidental lever control.

#### **Neutral Engine Start System**

The engine can start only when the pilot control shut-off lever is locked. This is called the neutral engine start system. This eliminates unexpected lurching when the engine suddenly starts when touching the control lever unconsciously.

#### **Swing/Travel Parking Brakes (Standard)**

The swing parking brake and travel parking brake are both provided standard for enhanced safety.



#### illustrated is HOPS/OPG cab (with top guard

**ROPS/TOPS Cab and Canopy** 

Both canopy and cab conform to the latest ROPS (ISO 3471), TOPS (ISO 12117), and OPG top guard (level 1) standards. The seat belt protects the operator as well. The operator's cab and canopy, complying with the international standards, are mounted to protect the operator in the case of tipping.

ROPS (Roll-Over Protection Structure) for protection of the operator held by seat belt in the case of rolling-over

TOPS (Tip-Over Protection Structure) for operator protection in the case of tipping-over OPG (Operator Protective Guards) for operator protection against falling objects





#### **Additional Features**





Retractable seat belt Rearview mirror (Cab)





Anti-slip plate

Wrist re

#### A Recyclable Machine

All resin parts are marked to facilitate recycling. The machine is completely leadfree. The radiator and oil cooler are made from aluminium and all wires are leadless. In addition, biodegradable hydraulic oil is available for jobsites where special environmental care is required.



#### **Suitable for a Variety of Applications (Optional)**





Theft deterrent system

## **SPECIFICATIONS**

ENGINE	
Model	Yanmar 3TNV88
Туре	4-cycle water-cooled, direct injection
No. of cylinders	3
Rated power	
ISO 9249, net	21.3 kW (28.5 HP) at 2 400 min-1 (rpm)
EEC 80/1269, net	21.3 kW (28.5 HP) at 2 400 min-1 (rpm)
SAE J1349, net	21.3 kW (28.5 HP) at 2 400 min-1 (rpm)
DIN 6271, net	21.2 kW (28.4 HP) at 2 400 min-1 (rpm)
Gross	22.0 kW (29.5 HP) at 2 400 min-1 (rpm)
Maximum torque	106 Nm (10.8 kgf m) at 1 000 min-1 (rpm)
Piston displacement	1.642 L
Bore and stroke	88 mm x 90 mm
Electric system	
Voltage	12 V
Batteries	55 Ah
Alternator	55 A
Starter motor	2.3 kW

#### **HYDRAULIC SYSTEM**

Main pumps	2 variable displacement axial piston pumps
	1 gear pump
Maximum oil flow	2 x 38.4 L/min
	1 x 25.2 L/min
Pilot pump	1 gear pump
Maximum oil flow	10.8 L/min

#### **Hydraulic Motors**

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor
Auxiliary	
Maximum oil flow	63.6 L/min

#### **Relief Valve Settings**

Implement circuit	24.5 MPa (250 kgf/cm <sup>2</sup> )
Swing circuit	14.8 MPa (150 kgf/cm <sup>2</sup> )
Travel circuit	24.5 MPa (250 kgf/cm²)
Pilot circuit	3.9 MPa (40 kgf/cm <sup>2</sup> )
Auxiliary circuit	24.5 MPa (250 kgf/cm²)

#### **Hydraulic Cylinders**

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinder to absorb shock at stroke ends.

#### **Dimensions**

	Quantity	Bore	Rod diameter	Stroke
Boom	1	80 mm	45 mm	579 mm
Arm	1	70 mm	40 mm	546 mm
Bucket	1	65 mm	40 mm	435 mm
Blade	1	85 mm	45 mm	135 mm
Boom swing	1	85 mm	45 mm	525 mm

#### **Hydraulic Filters**

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line.

#### CONTROLS

Implement levers	2
Travel levers with pedals	2
Blade lever	1

Hydraulic pilot controls levers for all operations.

#### **UPPERSTRUCTURE**

#### **Revolving Frame**

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

#### **Swing Device**

Axial piston motor with planetary reduction gear is lubricated by hydraulic oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed	9.0 min-1 (rpm)
Swing torque	4.86 kN·m (496 kgf·m)

#### Operator's Cab

Independent spacious cab, 960 mm wide by 1 520 mm high, conforming to ISO\* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Reclining seat.

\* International Standardization Organization

#### UNDERCARRIAGE

#### Tracks

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

#### Numbers of Rollers and Shoes on Each Side

Upper rollers	1
Lower rollers	4

#### **Travel Device**

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable.

Parking brake is spring-set/hydraulic-released disc type.

Travel speeds	High: 0 to 4.4 km/h
	Low: 0 to 2.9 km/h

Maximum traction force.. 27 kN (2 750 kgf)

Gradeability ...... 58 % (30 degree) continuous

#### **WEIGHTS AND GROUND PRESSURE**

Equipped with 2.28 m boom, 1.17 m arm and 0.09  $\rm m^3$  bucket (ISO heaped) rubber shoes 300 mm.

Cab type	Operating weight	Ground pressure
4-Pillars canopy	3 080 kg	28 kPa (0.28 kgf/cm²)
Cab	3 250 kg	29 kPa (0.30 kgf/cm²)

 $<sup>^{\</sup>star}$  (Operating weight with 0.09  $\rm m^3$  bucket if fully serviced +80 kg operator ISO 6016).

# Fuel tank 40.0 L Engine coolant 5.0 L Engine oil 7.2 L Travel device (each side) 0.6 L Hydraulic system 56.0 L

. 32.0 L

#### **BACKHOE ATTACHMENTS**

Boom and arms are of welded, box-section design. 2.28 m boom, 1.17 m and 1.52 m arms are available.

#### **Buckets**

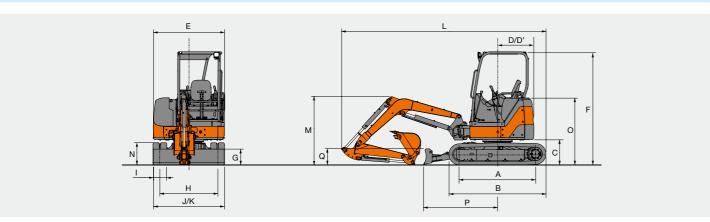
Hydraulic oil tank ....

Capacity ISO heaped	Width without side cutters	Weight
0.04 m <sup>3</sup>	250 mm	55 kg
0.055 m <sup>3</sup>	300 mm	60 kg
0.065 m <sup>3</sup>	350 mm	65 kg
0.08 m <sup>3</sup>	400 mm	67 kg
0.09 m <sup>3</sup>	450 mm	73 kg
0.10 m <sup>3</sup>	500 mm	76 kg
0.11 m <sup>3</sup>	550 mm	80 kg
0.13 m <sup>3</sup>	600 mm	84 kg

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# **SPECIFICATIONS**

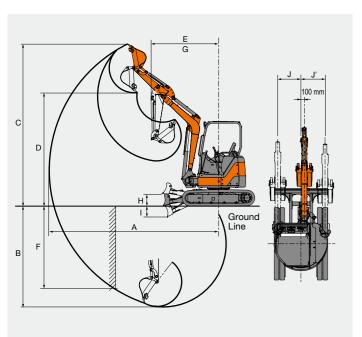
#### **DIMENSIONS**



Model code		ZX30	DU-3F		
	1.17 r	1.17 m arm		1.52 m arm	
	Canopy	Cab	Canopy	Cab	
A Distance between tumblers	1 650 (	1 660)	1 650 (	1 660 )	
B Undercarriage length	2 100 (	2 120)	2 100 ( 2 120 )		
* C Counterweight clearance	550 (	540)	550 (	540)	
D Rear-end swing radius	77	'5	77	'5	
D' Rear-end length	77	'5	775		
E Overall width of upperstructure	1 5	50	1 550		
F Overall height of cab	2 460 ( 2 450 )	2 500 ( 2 490 )	2 460 ( 2 450 )	2 500 ( 2 490 )	
* G Min. ground clearance	280 (	280 ( 270 )		280 ( 270 )	
H Track gauge	1 2	1 250		1 250	
I Track shoe width	30	300		300	
J Undercarriage width	1 5	1 550		1 550	
K Overall width	1 5	1 550		1 550	
L Overall length	4 4	50	4 560		
M Overall height of boom	1 4	1 480		1 870	
N Track height	480 ( 470 )		480 ( 470 )		
O Engine cover height	1 420 (	1 420 (1 410)		1 420 (1 410)	
P Horizontal distance to blade	1 6	10	1 610		
Q Blade height	355		355		

Data in ( ) are dimensions of grouser shoe. This illustration shows the ZX30U-3F equipment with 1.17 m arm, 0.09 m³ bucket and 300 mm rubber shoes.

#### **WORKING RANGES**



	Model code		ZX30	DU-3F	
		1.17 ו	m arm	1.52 r	m arm
		Canopy	Cab	Canopy	Cab
A	Max. digging reach	4 8	390	5 1	170
В	Max. digging depth	2.7	780	3 1	130
С	Max. cutting height	4 620	4 430	4 700	4 470
D	Max. dumping height	3 210	3 040	3 310	3 100
Е	Min. swing radius	1 950	2 140	2 080	2 180
F	Max. vertical wall	2.3	340	2.5	540
G	Working radius at Min. swing radius (Max. boom-swing angle)	1 580	1 730	1 660	1 730
Н	Blade bottom highest position above ground		30	60	
Ι	Blade bottom lowest position abov ground	е	3	20	
J/J	Offset distance	605 / 740	605 / 700	605 / 740	700 / 605
Buc	cket digging force ISO : PCSA kN(kg	f) 27.5 (	2 800)	27.5 (	2 800)
Buc	cket digging force SAE kN(kg	f) 23.0 (	2 350)	23.0 (	2 350)
Arn	n crowd force ISO : PCSA kN(kg	f) 17.2 (	1 750)	14.7 (	1 500)
Arm	n crowd force SAE kN(kg	f) 15.8 (	1 610)	13.9 (	1 420)

# LIFTING CAPACITIES

Notes: 1. Ratings 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. \*Indicates load limited by hydraulic capacity. 5. 0 m = Ground.

A: Load radius

B: Load point height C: Lifting capacity

#### ZX30U-3F Canopy Version, Blade above Ground, 1.17 m Arm

Rating over-side or 360 degrees

Rating over-front

Unit: 1 000 kg

	Load				At max, reach							
Conditions	point	1.0	) m	2.0	) m	3.0	) m	4.0 m				
Conditions	height		Ů		Ů		Ů		Ů	<b>-</b>	Ů	meter
Arm 1.17 m	3.0 m									0.31	0.41	4.21
Rubber shoes 300 mm	2.0 m					0.55	0.71	0.33	0.43	0.26	0.34	4.61
Rubber snoes 300 mm	1.0 m					0.50	0.66	0.32	0.42	0.24	0.32	4.68
	0 (Ground)					0.48	0.63	0.31	0.40	0.26	0.34	4.44
	-1.0 m	*1.61	*1.61	0.91	1.26	0.47	0.63			0.34	0.45	3.79
	-2.0 m			0.94	*1.18							

	Load	Load radius									At max, reach		
Conditions	point 1.0 m		m	2.0 m		3.0 m		4.0 m		At max. reach			
	height		ů		Ů		Ů		Ů		Ü	meter	
Arm 1.17 m	3.0 m									0.37	0.47	4.21	
Rubber shoes 300 mm	2.0 m					0.64	0.81	0.39	0.50	0.31	0.40	4.61	
	1.0 m					0.59	0.77	0.38	0.49	0.29	0.38	4.68	
Additional counterweight 190 kg	0 (Ground)					0.56	0.73	0.37	0.47	0.31	0.41	4.44	
	-1.0 m	*1.61	*1.61	1.06	1.45	0.56	0.73			0.40	0.52	3.79	
	-2.0 m			1.09	*1.18								

#### ZX30U-3F Canopy Version, Blade on Ground, 1.17 m Arm

Unit: 1 000 kg

	Load		Load radius									At max, reach		
Conditions	point	1.0 m		2.0 m		3.0	) m	4.0 m		At Illax. Teach				
	height	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	meter		
Arm 1.17 m	3.0 m									0.31	*0.53	4.21		
	2.0 m					0.55	*0.83	0.33	*0.76	0.26	*0.52	4.61		
Rubber shoes 300 mm	1.0 m					0.50	*1.18	0.32	*0.85	0.24	*0.56	4.68		
	0 (Ground)					0.48	*1.38	0.31	*0.92	0.26	*0.66	4.44		
	-1.0 m	*1.61	*1.61	0.91	*2.07	0.47	*1.29			0.34	*0.76	3.79		
	-2.0 m			0.94	*1.18									

	Load point height			At max, reach								
Conditions		1.0 m		2.0 m		3.0 m		4.0 m		At max. reach		
Conditions		<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	ů	meter
Arm 1.17 m	3.0 m									0.37	*0.53	4.21
	2.0 m					0.64	*0.83	0.39	*0.76	0.31	*0.52	4.61
Rubber shoes 300 mm	1.0 m					0.59	*1.18	0.38	*0.85	0.29	*0.56	4.68
Additional counterweight 190 kg	0 (Ground)					0.56	*1.38	0.37	*0.92	0.31	*0.66	4.44
	-1.0 m	*1.61	*1.61	1.06	*2.07	0.56	*1.29			0.40	*0.76	3.79
	-2 0 m			1.09	*1 18							

#### ZX30U-3F Cab Version, Blade above Ground, 1.52 m Arm

Unit: 1 000 kg

	Load	Load radius									At max, reach		
Conditions	point	1.0 m		2.0 m		3.0 m		4.0 m		At max. reach			
	height		Ů		Ů		Ů		Ů		ů	meter	
Arm 1.52 m	3.0 m							0.36	0.47	0.29	0.38	4.53	
Rubber shoes 300 mm	2.0 m							0.36	0.46	0.25	0.32	4.90	
Rubber snoes 300 mm	1.0 m					0.54	0.71	0.34	0.45	0.23	0.31	4.96	
	0 (Ground)					0.50	0.67	0.32	0.43	0.25	0.33	4.74	
	-1.0 m	*1.36	*1.36	0.94	1.30	0.49	0.66	0.32	0.42	0.30	0.40	4.17	
	-2.0 m			0.96	1.34	0.50	0.67						

	Load		Load radius									At max, reach			
Conditions	point	1.0 m		2.0 m		3.0 m		4.0 m		At max. reach					
Conditions	height		Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	<b>-</b>	Ů	meter			
Arm 1.52 m	3.0 m							0.42	0.54	0.35	0.44	4.53			
Rubber shoes 300 mm	2.0 m							0.42	0.54	0.29	0.38	4.90			
	1.0 m					0.63	0.82	0.40	0.52	0.28	0.36	4.96			
Additional counterweight 190 kg	0 (Ground)					0.59	0.77	0.38	0.50	0.30	0.38	4.74			
	-1.0 m	*1.36	*1.36	1.09	1.50	0.58	0.76	0.38	0.49	0.36	0.47	4.17			
	-2 ∩ m			1.11	1.53	0.50	0.77								

#### ZX30U-3F Cab Version, Blade on Ground, 1.52 m Arm

Unit: 1 000 kg

	Load		Load radius									At max, reach		
Conditions	point	1.0 m		2.0 m		3.0	3.0 m		) m	At max. reach				
	height		Ů		Ů	<b>-</b>	Ů		Ů		Ů	meter		
Arm 1.52 m	3.0 m							0.36	*0.60	0.29	*0.49	4.53		
Rubber shoes 300 mm	2.0 m							0.36	*0.66	0.25	*0.49	4.90		
Rubber snoes 300 mm	1.0 m					0.54	*1.04	0.34	*0.78	0.23	*0.54	4.96		
	0 (Ground)					0.50	*1.33	0.32	*0.89	0.25	*0.63	4.74		
	-1.0 m	*1.36	*1.36	0.94	*2.32	0.49	*1.35	0.32	*0.87	0.30	*0.74	4.17		
	-2.0 m			0.96	*1.65	0.50	*1.00							

	Load	Load radius									At max, reach		
Conditions	point	1.0 m		2.0 m		3.0 m		4 .0 m		At max. reach			
Conditions	height		Ů		Ů	<b>-</b>	Ů		Ů		Ů	meter	
Arm 1.52 m	3.0 m							0.42	*0.60	0.35	*0.49	4.53	
Rubber shoes 300 mm	2.0 m							0.42	*0.66	0.29	*0.49	4.90	
	1.0 m					0.63	*1.04	0.40	*0.78	0.28	*0.54	4.96	
Additional counterweight 190 kg	0 (Ground)					0.59	*1.33	0.38	*0.89	0.30	*0.63	4.74	
	-1.0 m	*1.36	*1.36	1.09	*2.32	0.58	*1.35	0.38	*0.87	0.36	*0.74	4.17	
	-2.0 m			1.11	*1.65	0.59	*1.00						

This illustration shows the ZX30U-3F equipment with 1.17 m arm, 0.09 m³ bucket and 300 mm rubber shoes.

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Unit: mm

## **EQUIPMENT**

#### STANDARD EQUIPMENT

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

#### **ENGINE**

- Water-separator for engine fuel
- Radiator reserve tank
- Electrical fuel feed pump
- Cartridge-type engine oil filter
- Fuel filter

#### **HYDRAULIC SYSTEM**

- Hydraulic pilot type control levers
- Pilot control shut-off lever with neutral engine start system
- Swing parking brake
- Travel parking brake
- Two-speed travel system
- Auto idling system
- Suction filter
- Full-flow filter
- Pilot filter
- Boom anti-drift valve
- Valve for extra piping

#### 4-PILLARS CANOPY

- ROPS/OPG canopy
- Reclining seat
- Suspension seat
- Retractable seat belt
- Wrist rests
- Drink holder
- Electric horn
- Cigarette lighter
- Floor mat

#### **UPPERSTRUCTURE**

- Tool box
- Rear view mirror

#### **UNDERCARRIAGE**

- 300 mm rubber shoes

#### FRONT ATTACHMENTS

- HN bushing
- 1.17 m arm
- Extra piping

#### **OPTIONAL EQUIPMENT**

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

#### CAB

- ROPS/OPG cab
- Air conditioner
- AM/FM radio
- Window washer
- Defroster
- Reclining seat
- Suspension seat
- Retractable seat belt
- Wrist rests
- Spare power supply
- Wiper
- Drink holder
- Electric horn
- Cigarette lighter
- Floor mat

#### **UPPERSTRUCTURE**

- Accumulator
- Additional counterweight: 190 kg
- Theft deterrent system
- Multi-function lever
   (3 position switch type)
- Auxiliary overload relief valve

#### **UNDERCARRIAGE**

- 300 mm grouser shoes
- 300 mm pad crawler shoes

#### FRONT ATTACHMENTS

- 1.52 m arm
- Backhoe buckets (refer to specification page)

Prior to operating this machine, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country.

Please do not export of operate this machine outside of the country of its intended use until such compliance has been confirmed.

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 color and features.

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

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