

ZAXIS-5A series

HITACHI

Reliable solutions

ZAXIS38U



Shown equipped with 1.72 m arm, additional counterweight, armrests, extra piping and pedal as optional items.



HYDRAULIC EXCAVATOR

Model Code : ZX38U-5A

Engine Rated Power : 21.2 kW (28.4 HP)

Operating Weight : Canopy 3 440 - 3 900 kg

Cab 3 610 - 4 070 kg

Backhoe Bucket : ISO Heaped : 0.10 m³

Trustworthy and User-Friendly New Compact Excavators

The new series of Hitachi compact excavators has evolved even more. We listen to customers' needs, provide solutions, and adopt fresh ideas into our new products. The outcome is 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 multi-monitor, and comfortable operator seat. A low fuel consumption design ensures better fuel efficiency.

ZAXIS Empower your Vision.

HIGH PERFORMANCE

- Swift actions in narrow work place
- Excellent controllability
- Reduced fuel consumption

OPERATOR COMFORT

- Pleasant operator environment
- Sturdy operator stations by rigorous safety standards
- Easy-to-read multi-monitor

SIMPLIFIED MAINTENANCE

- Open-wide covers for easy maintenance
- Easy-to-clean cab floor
- Sloped track frame tops for easy mud removal

DURABILITY

- A line of Hitachi quality products
- Strong front attachment
- Rugged box-section blade
- Sturdy upperstructure



Shown equipped with 1.72 m arm, extra piping, additional counterweight, pre-cleaner and armrests as optional items.

Shown equipped with 1.72 m arm, extra piping, and additional counterweight as optional items.

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

HIGH PERFORMANCE

Agility Stands for Efficiency

Swift Actions in Narrow Work Place

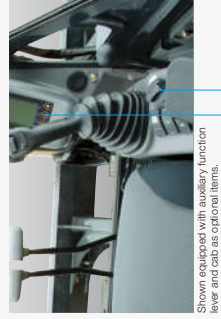
Short rear-and swing design allows for safe, confident operation in tight work areas.



Shown equipped with 1.72 m arm, extra piling and additional counterweight as optional items.

Excellent Controllability

The Hitachi pilot control system is impressive. The control lever provides excellent fine control and low-effort handling to reduce operator fatigue. It is ergonomically positioned for easy operation. The multi-monitor allows selection of ECO and PWR modes to control the motion speed. With the engine control dial, you can also adjust engine speed with ease. The auto speed change system shifts down travel speed when the load exceeds a certain limit (for instance, when going downhill), and shifts up when the load is less.



Reduced Fuel Consumption

A new engine has an electronic governor that is a clue to low fuel consumption. With an electronic accelerator, you can achieve precision engine control for fuel economy. To conserve fuel, select ECO mode, and to get more power, select PWR mode. In short, you can choose an optimum mode according to job needs.

The Auto Idle helps save fuel consumption, too. When moving the control lever to neutral, the Auto Idle automatically reduces engine speed to idling level four seconds later, reducing fuel consumption.

Shown equipped with 1.72 m arm, extra piling and additional counterweight as optional items.



OPERATOR COMFORT

Comfortable Operator Stations to Yield High Production



Shown equipped with cab, suspension seat, armrests, FM/AM radio, auxiliary function lever and air conditioner as optional items.

Pleasant Operator Environment

Hitachi cabs and canopies have been traditionally praised for operator comfort. They are spacious with ample leg room. The console and seat are designed ergonomically, standing for operator comfort. When sitting in the operator station, the operator will not feel restricted. Cab door width increases by 80 mm for easy access and a better view of work place. The front windshield is enlarged for higher visibility. The foot step is lowered for easy access. A host of devices, including arm rests, drink holder and seat back box, enhance operator comfort.

Sturdy Operator Stations by Rigorous Safety Standards

The rugged cab and 4-pillar canopy well protect the operator in case of tipping. They are ruggedly designed by the ROPS* standard. All the models are protected with the OPG** top guard against falling objects. A seat belt, pilot control shut-off lever, swing parking brake and travel parking brake are all standard. The neutral engine start system further enhances safe operation, disabling engine starting unless the lever is in lock position.

*Roll-Over Protection Structure

**Operator Protection Guard



Shown equipped with armrests, FM/AM radio, air conditioner, pedal, spare power supply and suspension seat as optional items.

Easy-to-Read Multi-Monitor

The multi-monitor is bright, informative and easy-to-read, displaying machine conditions, settings and warnings. A clock is newly added.

- 1** Menu/Return Switch
- 2** Auto-Idle Selector Switch
- 3** ECO/PWR Mode Selector Switch

Items

- Coolant Temperature Gauge
- Fuel Gauge
- Hour Meter
- Clock
- Travel Mode Indicator
- Work Light Indicator
- Overheat Indicator
- Engine Oil Pressure Indicator
- Preheat Indicator
- Fuel Level Indicator



Shown equipped with armrests, air conditioner, cab, pedal and spare power supply as optional items.

SIMPLIFIED MAINTENANCE

Easy Servicing, Day-in Day-out

Open-Wide Covers for Easy Maintenance

All covers are wide-opening for direct access to service points, allowing for quick daily inspection and replacement. A cover adjacent to the radiator extends vertically to easily clean the radiator. A refueling port is placed inside the cover to avoid dirt entry and fuel theft.

A new tank cover is lightweight and wide-opening for easy refueling.



- 1 Reserve tank
- 2 Water separator
- 3 Fuel filter
- 4 Air filter
- 5 Engine oil filter
- 6 Fuel tank

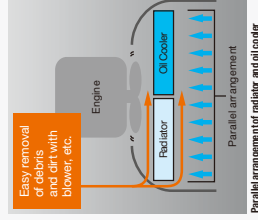


Shown equipped with cab and additional counterweight as optional items.

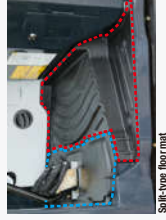
Easy-to-Clean Cab Floor

The radiator and oil cooler are arranged in parallel, instead of conventional in-line arrangement, to promote easy, efficient cleaning and cooling. Their wavy fins can be easily cleaned by air blowing.

Dust-proof indoor nets provide for easy removal of debris and dirt. A split-type floor mat can easily be removed at a seam between foot pedals and cab floor, and its surface patterns allow for quick sweeping.



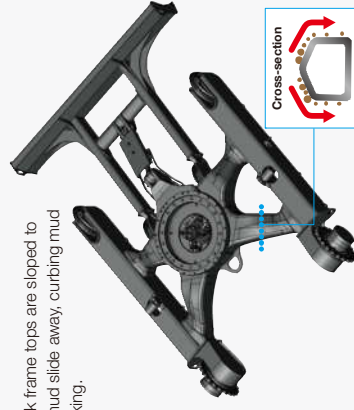
Dust-proof indoor net (optional)



Split-type floor mat

Sloped Track Frame Tops for Easy Mud Removal

Track frame tops are sloped to let mud slide away, curbing mud packing.



DURABILITY

Technological Prowess and Stringent Quality Control

A Line of Hitachi Quality Products

Hitachi has been acclaimed worldwide for technological prowess and high-performance products since the launch of its first hydraulic excavator in 1949. Its Design Division has adopted the 3D-CAD system for applied analysis and data crunching to churn out quality products and slash lead time in development.

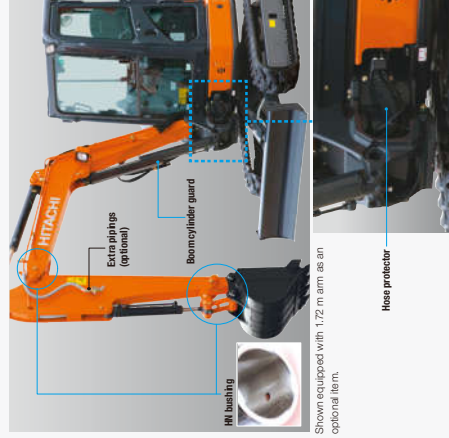
Newly developed products have been vigorously tested in multiple ways, such as long-hours durability test and evaluation test, at a Hitachi vast 427 hectares test field under critical operating conditions – for instance, tropical or freezing weather – before unveiling new products.



Strong Front Attachment

Front pins are jointed with a tight fit to reduce jerking and noise significantly, enhancing durability. Those pins are lubricated with HN bushings having an abundant grease-retaining capacity, extending greasing intervals up to 500 hours.

Main hoses are sheathed with hose protectors at the swing post. The bottom side of the boom cylinder is protected with a V-shaped boom cylinder guard. The four-side reinforced arm is sturdy with high rigidity.



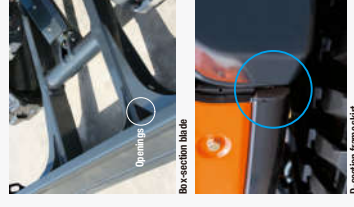
Shown equipped with 1.72 m arm as an optional item.

Rugged Box-Section Blade

The blade is box-section structure for higher ruggedness, and its stays have openings for easy flow-out of mud.

Sturdy Upperstructure

The upperstructure frame is reinforced with job-proven D-section skirts whose height is increased for larger cross section to boost durability against obstacles.



Shown equipped with 1.72 m arm, extra piping and additional counterweight as optional items.

SPECIFICATIONS

ENGINE	
Model	Yanmar 3TNV88
Type	4-cycle water-cooled, direct injection
No. of cylinders	3
Rated power	
ISO 9249, net	21.2 kW (28.4 HP) at 2 400 min ⁻¹ (rpm)
EEC 80/1269, net	21.2 kW (28.4 HP) at 2 400 min ⁻¹ (rpm)
SAE J1349, net	21.2 kW (28.4 HP) at 2 400 min ⁻¹ (rpm)
Maximum torque	105.5 Nm (10.8 kgfm) at 1 000 min ⁻¹ (rpm)
Piston displacement	1.642 L
Bore and stroke	88 mm x 90 mm
Batteries	1 x 12 V / 55 Ah

HYDRAULIC SYSTEM	
Hydraulic Pumps	
Main pumps	2 variable displacement axial piston pumps
.....	1 gear pump
Maximum oil flow	2 x 38.4 L/min
.....	1 x 22.8 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

Relief Valve Settings	
Implement circuit	24.5 MPa (250 kgf/cm ²)
Swing circuit	18.6 MPa (190 kgf/cm ²)
Travel circuit	24.5 MPa (250 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)

Hydraulic Cylinders			
	Quantity	Bore	Rod diameter / Stroke
Boom (canopy)	1	85 mm	50 mm / 576 mm
Boom (cab)	1	85 mm	50 mm / 564 mm
Arm	1	75 mm	45 mm / 597 mm
Bucket	1	65 mm	40 mm / 435 mm
Blade	1	95 mm	50 mm / 140 mm
Boom swing	1	85 mm	45 mm / 525 mm

UPPERSTRUCTURE	
Revolving Frame	
D-section frame for resistance to deformation.	
Swing Device	
Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.	
Swing speed	9.1 min ⁻¹ (rpm)
Swing torque	6.0 kNm (610 kgfm)
Operator's Cab	
Independent spacious cab, 1 049 mm wide by 1 611 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 Organization for Standardization	

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

Numbers of Rollers on Each Side	
Upper roller	1
Lower rollers	4

Travel Device	
Each track driven by 2-speed axial piston motor.	
Parking brake is spring-set/hydraulic-released disc type.	
Automatic transmission system: High-Low.	
Travel speeds	High : 0 to 4.3 km/h
	Low : 0 to 2.8 km/h

Maximum traction force	27 kN (2 750 kgf)
Gradeability	58% (30 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	42.0 L
Engine coolant	3.9 L
Engine oil	7.2 L
Travel device (each side)	0.6 L
Hydraulic system	56.0 L
Hydraulic oil tank	32.0 L

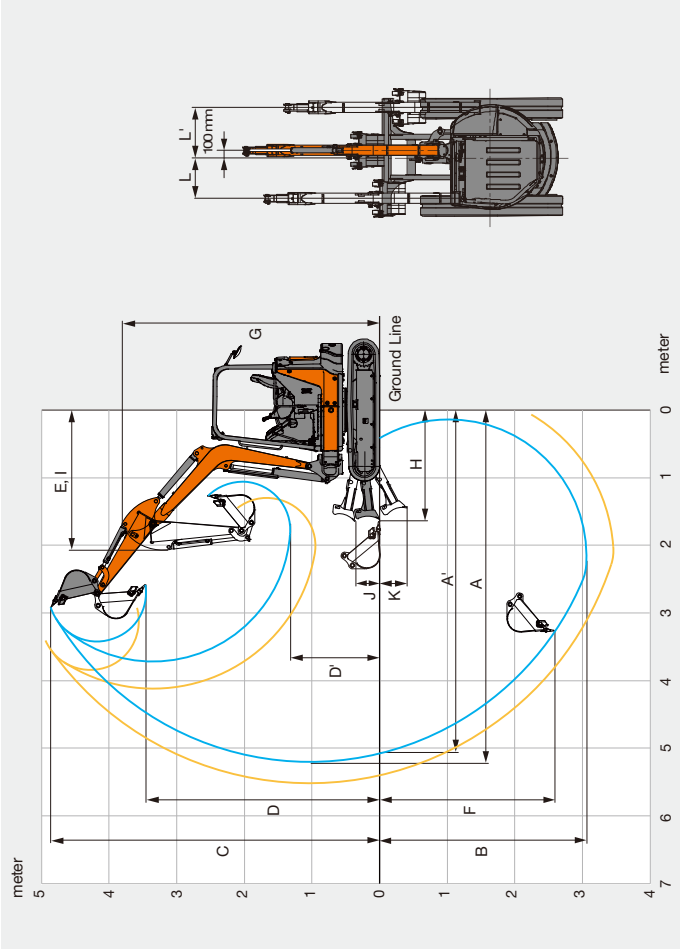
WEIGHTS AND GROUND PRESSURE				
Operating Weight and Ground Pressure				
4-PILLAR CANOPY				
Shoe type	Shoe width	Arm length	kg	kPa (kgf/cm ²)
Rubber shoe	300 mm	1.32 m	3 440	31 (0.32)
		1.72 m	3 690*	34 (0.34)*
Grouser shoe	300 mm	1.32 m	3 580	33 (0.34)
		1.72 m	3 830*	35 (0.36)*
Pad crawler shoe	300 mm	1.32 m	3 650	34 (0.35)
		1.72 m	3 900*	36 (0.37)*
Including 0.10 m ³ (ISO heaped), bucket weight (80 kg).				
* Including 0.09 m ³ (ISO heaped), bucket weight (76 kg), additional counterweight (230 kg).				

CAB				
Shoe type	Shoe width	Arm length	kg	kPa (kgf/cm ²)
Rubber shoe	300 mm	1.32 m	3 610	33 (0.34)
		1.72 m	3 860*	35 (0.36)*
Grouser shoe	300 mm	1.32 m	3 750	34 (0.35)
		1.72 m	4 000*	37 (0.37)*
Pad crawler shoe	300 mm	1.32 m	3 820	35 (0.36)
		1.72 m	4 070*	38 (0.38)*
Including 0.10 m ³ (ISO heaped), bucket weight (80 kg).				
* Including 0.09 m ³ (ISO heaped), bucket weight (76 kg), additional counterweight (230 kg).				

BUCKET AND ARM DIGGING FORCE			
Arm length	1.32 m		1.72 m
Bucket digging force ISO		27.1 kN (2 760 kgf)	
Bucket digging force SAE : RCSA		22.8 kN (2 320 kgf)	
Arm crowd force ISO	19.0 kN (1 940 kgf)		16.9 kN (1 720 kgf)
Arm crowd force SAE : RCSA	17.9 kN (1 830 kgf)		16.1 kN (1 640 kgf)

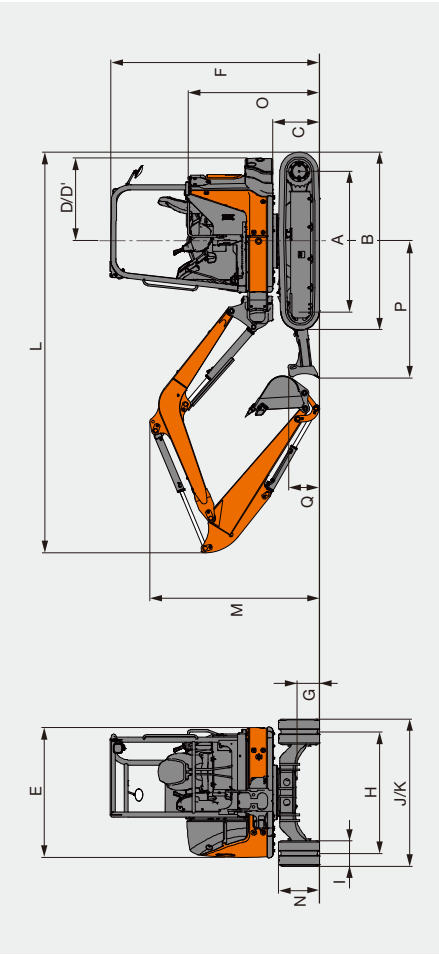
SPECIFICATIONS

WORKING RANGES



	Arm length	4-Pillar Canopy	1.32 m	Cab	4-Pillar Canopy	1.72 m	Cab
A Max. digging reach		5 210		5 520		5 520	
A' Max. digging reach (on ground)		5 080		5 410		5 410	
B Max. digging depth		3 060		3 460		3 460	
C Max. cutting height		4 570		4 700		4 950	
D Max. dumping height		3 460		3 310		3 570	
D' Min. dumping height		1 520		1 250		950	
E Min. swing radius		2 080		2 240		2 190	
F Max. vertical wall digging depth		2 580		2 780		2 780	
G Front height at Min. swing radius		3 720		3 640		3 760	
H Min. level crowding distance		1 610		1 610		1 570	
I Working radius at Min. swing radius (Max boom-swing angle)		1 670		1 910		1 770	
J Blade bottom highest position above ground		360		360		360	
K Blade bottom lowest position above ground		400		400		400	
L/L' Offset distance		610 / 735		610 / 700		610 / 735	
with hose rupture valve		520 / 735		520 / 700		520 / 735	
with assist pipes		450 / 700		450 / 700		450 / 700	
Max. boom-swing angle (deg.)		72 / 62		62 / 62		72 / 62	
with hose rupture valve (deg.)		72 / 62		62 / 62		72 / 62	
with assist pipes (deg.)		62 / 45		62 / 45		62 / 45	
Excluding track shoe lug							

DIMENSIONS



	ZX38U-5A
A Distance between tumbler	1 660 (1 670)
B Undercarriage length	2 110 (2 130)
C Counterweight clearance	550 (540)
D Rear-end swing radius	870 (880 with additional counterweight)
D' Rear-end length	960
E Overall width of upperstructure	1 550
F Overall height of cab	2 480 (2 470)
G Min. ground clearance	280 (270)
H Track gauge	1 440
I Track shoe width	300
J Undercarriage width	1 740
K Overall width (Blade width)	1 740
L Overall length	
With 1.32 m arm	4 640
With 1.72 m arm	4 760
M Overall height of boom	
With 1.32 m arm	1 530
With 1.72 m arm	1 990
N Track height	
O Engine cover-height	480 (470)
P Horizontal distance to blade	1 530 (1 520)
Q Blade height	1 620
	360

* Excluding track shoe lug Data in () are dimensions of grouser shoe.

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 67% 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.

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













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

ZX38U-5A 4-Pillar Canopy Version, Blade above Ground

ZX38U 5A 4-Pillar Canopy Version, Blade above Ground																		
Conditions	Load point height m	Load radius						Rating over-side or 360 degrees			Unit: 1 000 kg							
		1.0 m		2.0 m		3.0 m		4.0 m		At max. reach								
																		
Boom 2.47 m	3										0.52	0.49	4.37					
Arm 1.72 m	2											0.45	0.42	4.76				
Additional counterweight	1												0.42	0.40	4.87			
230 kg	0 (Ground)													0.44	0.41	4.73		
Rubber shoe	-1														0.49	0.46	4.31	
300 mm	-2															0.63	0.48	3.48

ZX38U-5A 4-Pillar Canopy Version, Blade on Ground

ZX38A 4-Pillar Canopy Version, Blade on Ground													
Conditions	Load point height m	Load radius						Rating over-front		At max. reach			
		1.0 m		2.0 m		3.0 m		4.0 m					
													
Boom 2.47 m	3							0.71	0.57	0.64		0.49	4.37
Arm 1.72 m	2							0.85	0.78	0.63		0.42	4.76
Additional counterweight	1							1.25	0.82	0.54	0.67	0.40	4.87
230 kg	0 (Ground)							1.54	0.77	1.05	0.52	0.41	4.73
Rubber shoe	-1							1.56	0.76	1.04	0.51	0.46	4.31
300 mm	-2							1.26	0.77			0.63	3.48










ZX38U-5A 4-Pillar Canopy Version, Blade above Ground

ZX38U SA 4-Pillar Canopy Version, Blade above Ground											Rating over-side or 360 degrees		Unit: 1 000 kg	
Conditions	Load point height m	Load radius						Rating over-front		At max. reach				
		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		6.0 m		
		h	h	h	h	h	h	h	h	h	h	h	h	
Boom 2.47 m	3							0.80	0.78			0.53	0.49	3.93
Arm 1.32 m	2			1.56	1.41			0.79	0.74	0.50	0.47	0.43	0.41	4.37
Rubber shoe 300 mm	1							0.74	0.69	0.48	0.45	0.41	0.38	4.49
	0 (Ground)				1.34	1.21		0.70	0.66	0.47	0.44	0.42	0.39	4.34
	-1	1.87	1.87		1.36	1.22		0.70	0.65			0.49	0.46	3.86
	-2			1.40	1.27			1.22	1.27			0.3	0.73	2.86











ZX38U-5A 4-Pillar Canopy Version, Blade on Ground

ZX39U 5A 4-Pillar Canopy Version, Blade on Ground											Rating over-side or 360 degrees		Unit: 1 000 kg							
Conditions	Load point height m	Load radius						Rating over-front		At max. reach										
		1.0 m		2.0 m		3.0 m		4.0 m		5.0 m		6.0 m								
		📏	📏	📏	📏	📏	📏	📏	📏	📏	📏	📏	📏							
Boom 2.47 m	3																			
Arm 1.32 m	2																			
Rubber shoe	1																			
300 mm	0 (Ground)																			
	-1																			
	-2																			

ZX38U-5A Cab Version, Blade above Ground

ZZX38U-5A Cab Version, Blade above Ground												
Conditions	Load point height m	Load radius						At max. reach				
		1.0 m		2.0 m		3.0 m		4.0 m		Rating over-side or 360 degrees	Unit: 1 000 kg	
												
Boom 2.47 m	3							0.64	0.60	0.55	0.52	meter
Arm 1.72 m	2								0.63	0.59	0.45	4.37
Additional counterweight	1								0.93	0.86	0.45	4.76
230 kg	0 (Ground)								0.88	0.81	0.45	4.87
Rubber shoe	-1								*1.42	1.42	0.46	4.43
300 mm	-2								1.66	1.49	0.52	4.31
									*1.43	*1.43	0.67	3.48
									*2.40	*2.40	0.51	













ZX38U-5A Cab Version, Blade on Ground

ZZX38U-5A Cab Version, Blade on Ground		Load point height m	Load radius						Rating over-side or 360 degrees		Unit: 1 000																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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ZX38U-5A Cab Version, Blade above Ground

ZX38U-5A Cab Version, Blade above Ground												
Conditions	Load point height m	Load radius						Rating over/round			At max. reach	
		1.0 m		2.0 m		3.0 m		4.0 m		Rating over-side or 360 degrees		
		📏	🔧	📏	🔧	📏	🔧	📏	🔧			
Boom 2.47 m	3							0.80	0.80	0.56	0.53	3.93
Arm 1.32 m	2							0.84	0.78	0.54	0.50	4.44
Rubber shoe	1							0.79	0.73	0.52	0.48	4.49
300 mm	0 (Ground)							0.75	0.70	0.50	0.47	4.34
	-1							0.75	0.70			3.86
	-2							1.45	1.30			0.53
								1.49	1.34			0.56
												2.86

ZX38U-5A Cab Version, Blade on Ground

ZZX38U-5A Cab Version, Blade on Ground											Rating over-front 		Rating over-side or 360 degrees		Unit: 1 000 kg
Conditions	Load point height m	Load radius						At max. reach							
		1.0 m		2.0 m		3.0 m		4.0 m							
															
Boom 2.47 m	3							*0.80	*0.80			*0.82	0.53	3.83	
Arm 1.32 m	2							*1.61	1.49				*0.80	0.44	4.37
Rubber shoe	1												*1.02	0.48	4.49
300 mm	0 (Ground)												*1.09	0.47	4.34
	-1							*1.87	*2.56	1.29	*1.60	0.70	*1.52	0.70	4.42
	-2												*1.02	0.49	3.86
													*1.02	0.78	2.86

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

		● : Standard equipment		○ : Optional equipment	
ENGINE		4-PILLAR CANOPY		FRONT ATTACHMENTS	
Auto idle system	●	Anti-slip plate	●	Auxiliary overload relief valve	○
Cartridge-type engine oil filter	●	Armrests	○	Pilot accumulator	○
Dust-Proof indoor net	○	Auxiliary function lever (AFL)	○	Rear view mirror	●
Electrical fuel feed pump	●	Drink holder	●	Stack multiplier	○
Fuel main filter	●	Electric horn	●	230 kg additional counterweight	○
Radiator reserve tank	●	Floor mat	●		
Water separator for engine fuel	●	Reclining seat	○		
		Retractable seat belt	○		
		ROPS/OPG canopy	●	300 mm grouser shoe	○
		Spare power supply	○	300 mm pad crawler shoe	○
		Suspension seat	○	300 mm rubber shoe	●
			○		
HYDRAULIC SYSTEM		CAB		UNDERCARRIAGE	
Hose rupture valve	○				
Hydraulic pilot type control levers	●				
Pilot control shut-off lever with neutral engine start system	●	Air conditioner	○		
Pilot filter	●	AM/FM radio	○		
Suction filter	●	Anti-slip plate	●		
Swing parking brake	●	Armrests	○		
Travel parking brake	●	Auxiliary function lever (AFL)	○		
Two-speed travel system	●	Defroster	●		
Valve for extra piping	●	Drink holder	●		
		Electric horn	●		
		Floor mat	●		
		Heater	●		
		Reclining seat	●		
		Retractable seat belt	○		
		ROPS/OPG cab	●		
		Spare power supply	○		
		Suspension seat	○		
		Window washer	●		
		Wiper	●		

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



Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

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

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.