HITACHI

Reliable Solutions

ZAXIS350



HYDRAULIC EXCAVATOR

 Model code
 : ZX350H-7G / ZX350LCH-7G

 Engine rated power
 : 200 kW (268HP)

 Operating weight
 : 33 600 - 35 400 kg

 Bucket capacity
 : 2.00 m³ - 2.30 m³



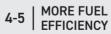
GET MORE FROM YOUR MACHINE

You're at the heart of Hitachi Construction Machinery's design for its latest range of excavators. To continuously improve on previous generation machines, we've focused on enhancing your profit in business.

We have made cost reduction for our customers our top priority and, in doing so, have achieved reduced fuel consumption. The cab has been redesigned to improve the operator's working environment and controllability, with production also expected to improve. An engine that already has a proven track record of high reliability has been adopted, and we have placed further work in it to make it even more robust.

INSIDE





6-7 | BETTER OPERABILITY



10-11 SM00TH MAINTENANCE





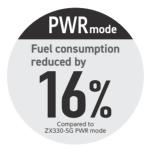
8-9 | HIGH DURABILITY AND RELIABILITY

MORE FUEL EFFICIENCY

Improved HISOIII hydraulic system matched with a new engine improves the ZX-7G fuel efficiency and fuel cost.

Reducing fuel consumption

With the reduction of fuel consumption in each mode compared to conventional models, the new model will contribute to increasing your profit.





HIOS III hydraulic system

The hydraulic system developed was based on the concept of a hydraulic system that fits in-line with a sense of human operation.

✓ Efficient hydraulic control achieves smoother and more speedy movement of front attachments.

Fine-tuned hydraulic pump control

A solenoid valve mounted on the hydraulic system further controls the pump flow rate to reduce unnecessary load on the engine. ✓ Contributing to low fuel consumption operation

High efficiency engine

A common rail type fuel injection system is used to electronically control fuel quantity and injection timing for more efficiency in fuel combustion. ✓ Contributing to high engine power and low fuel consumption.



Operation support system for high efficiency

ECO gauge

A gauge displays the current fuel consumption during an operation with a higher mark on the gauge indicating a lower fuel usage. The eco-gauge helps to support the operator in achieving lower fuel consumption throughout the work required.

ECO guidance

Prompts the operator to better fuel economy. Messages are also shown while the ECO gauge is displayed.

✓ Prompts operator for better economy





BETTER OPERABILITY

In the cab of the Zaxis-7G, enhanced comfort and safety features are at your fingertips, offering the power to perform greater productivity with ease as well as reduced fatigue.



Operation is easy with ergonomically designed controls and switches.

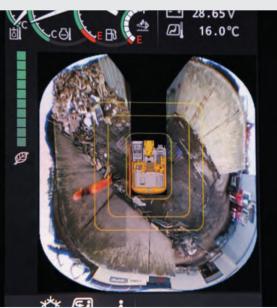


Low-reflective color 8" monitor, 42% larger display compared to ZX-5G series. Easier to view and navigate. Optional USB power supply and Bluetooth® available.



New designed pilot shut-off lever The newly designed pilot shut-off lever allows easier locking and unlocking with wrist operation.





AERIAL ANGLE 270-degree bird's eye-view camera system is available.

HIGH DURABILITY AND RELIABILITY

Completing a project on time and on budget depends on the ability of your construction equipment to perform all day, every day. That's why the owners have profited from generations of reliable and durable machinery. Hitachi Construction Machinery develops its machines with constant awareness of the need to further improve long-term reliability. High long-term reliability is good in not only performance all day, every day but also for resale value.

An engine with improved reliability

The engine is a highly reliable model that has already been adopted previously. In adopting it for the ZX-7G, we have put in our efforts to further increase durability and to boost your uptime. EGR (Exhaust Gar Recirculation) is removed from the engine, increasing its durability for using low-guality fuel.



✓ Reinforced motor cover

Enlarged track guard

✓ Reducing wear and damage risks on the track link and lower roller.



Structurally improved upper roller, lower roller, and the front idler ✓ Maintains lubrication performance in the roller and improves roller durability

Heavy-Duty model ZAXIS 350H / 350LCH

The heavy-duty model is more durable with reinforced load-bearing points on the excavator

HITACHI Damage prevention plates and square bars Reinforced link B Rock bucket 2.30 m³ Thickened steel plates. additional lateral-type wear plates. Reinforced idler bracket Reinforced lower flange High reliable fuel circuit Larger fuel pump and changing filter locaton improve the reliability of the entire fuel circuit and further help to prevent engine problems. Contributing to boost your uptime.

HITACHI

Thickened steel plate





Reinforced plat form plate ✓ Increased plate strength and deformation-resistant structure







Equipped with an expansion tank \checkmark Improving the reliability of the engine cooling performance



SMOOTH MAINTENANCE

Regular maintenance is essential for the machine to achieve high performance. ZAXIS excavators are designed for ease of regular maintenance. Simple and easy maintenance keeps the machine in good condition and keeps its high performance.

Easy to clean radiator/Oil cooler/Inter cooler core



Dust-proof indoor net Provided at the front of radiator Easy to be removed and cleaned





Cleaning port for radiator/ Oil cooler/Inter cooler core

✓ The cover can be opened without the need for any tools ✓ Easy to clean radiator/Oil cooler /Inter cooler core with simple air blowing

Easy-access air conditioner condenser The condensor can be opend Easy to clean radiator/Oil cooler /Inter cooler core with simple air blowing



Remote lubrication of arm-end pin

✓ Reducing the risk of mud stuck in the lubrication port ✓ Performs smooth lubrication



Easy access to filters Filter locations are concentrated in the pump room

1 Fuel main filter Fuel pre-filter with water separator Engine oil filter 4 Pilot filter





Handrail

Handrails have been installed on the platform to allow safer access to the engine and maintenance work around the engine







SPECIFICATIONS

ENGINE	
Model	Isuzu 6HK1
Туре	4-cycle water-cooled, common rail direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 14396 : 2002 gross	200 kW (268HP) at 1 900 min ⁻¹ (rpm)
ISO 9249 : 2007 net	190 kW (254HP) at 1 900 min ⁻¹ (rpm)
Maximum torque	1 069 Nm (109 kgfm) at 1 500 min ⁻¹ (rpm)
Piston displacement	7.790 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V

HYDRAULIC SYSTEM					
Hydraulic Pumps					
Main pumps		2 varia	2 variable displacement axial piston pumps		
Maximum oil flov	V	2 x 28	2 x 288 L/min		
Pilot pump		1 gear	r pump		
Maximum oil flov	V	30.2 L	/min		
Hydraulic Mot	ors				
Travel		2 varia	able displacement a	kial piston motors	
Swing		1 axial piston motor			
Relief Valve Settings					
Implement circuit 34.3			34.3 MPa (350 kgf/cm ²)		
Swing circuit		32.4 N	/IPa (330 kgf/cm²)		
Travel circuit		34.3 N	/IPa (350 kgf/cm²)		
Pilot circuit		3.9 M	Pa (40 kgf/cm²)		
Power boost		38.0 N	/IPa (338 kgf/cm²)		
Hydraulic Cyli	nders				
Quantity			Bore	Rod diameter	
Boom	2		145 mm	100 mm	
Arm	1		170 mm	115 mm	
Bucket	1	140 mm 95 mm			

UPPERSTRUCTUR	E			
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/ hydraulicreleased disc type.				
Swing speed 10.7 min ⁻¹ (rpm)				

Swing speed	10.7 min ⁻¹ (rpm)
Swing torque	120 kNm (12 200 kgfm)

UNDERCARRIAGE				
Tracks				
	ecting pins with dirt seals. Hydraulic (grease) track ck-absorbing recoil springs.			
Numbers of Rolle	ers and Shoes on Each Side			
Upper rollers	2			
l ower rollers	7 : ZX350H-7G			
Lower rollers	8 : ZX350LCH-7G			
Track shoes	45 : ZX350H-7G			
TRUK SHOES	48 : ZX350LCH-7G			
Track guards	3 : ZX350H-7G / ZX350LCH-7G			
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				

Travel speeds	
Travel speeus	Low : 0 to 3.2 km/h
Maximum traction force	298 kN (30 400 kgf)
Gradeability	70% (35 degree) continuous

SERVICE REFILL CAPACITIES				
Fuel tank	630.0 L			
Engine coolant	41.0 L			
Engine oil	41.0 L			
Swing device	15.7 L			
Travel device (each side)	11.0 L			
Hydraulic system	340.0 L			
Hydraulic oil tank	180.0 L			

WEIGHTS AND GROUND PRESSURE

ZX350H-7G / ZX350LCH-7G

Equipped with 6.4 m H-boom, 2.33 m Arm and 2.00 m³ Bucket (ISO 7451 : 2007 heaped)

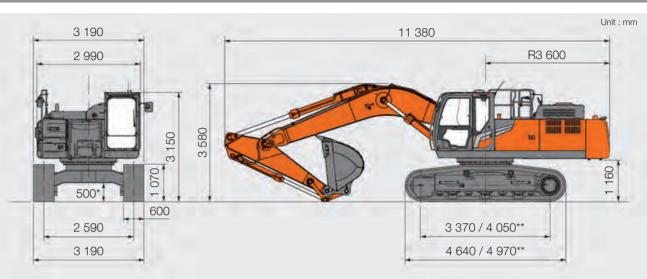
	Shoe type	Shoe width (mm)	Weight (kg)	kPa (kgf/cm²)
ZX350H-7G	Triple grouser	600	33 700	68 (0.69)
ZX350LCH-7G	Triple grouser	600	34 400	64 (0.65)
ZX350H-7G	Triple grouser	800	34 700	52 (0.54)
ZX350LCH-7G	Triple grouser	800	35 400	50 (0.51)

BUCKET AND ARM DIGGING FORCE

	2.33 m	
Arm length	kN	kgf
Bucket digging force* ISO 6015 : 2006	246	25 100
Arm crowd force* ISO 6015 : 2006	250	25 500

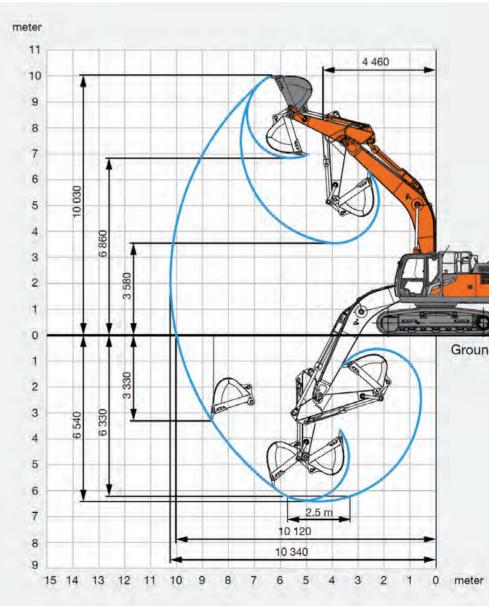
* At power boost

DIMENSIONS



* Excluding track shoe lug **LCH

WORKING RANGES



Excluding track shoe lug

Unit : mm 4 460 Director Co Ground Line

SPECIFICATIONS

BASIC MACHINE WEIGHT AND COMPONENTS WEIGHT

Basic Machine Weight and Overall Width

Excluding front end attachment, fuel, hydraulic oil and coolant etc. Including counterweight.

	ZX350)H-7G	ZX350LCH-7G		
Shoe width (mm)	Weight (kg)	Overall width (mm)	Weight (kg)	Overall width (mm)	
600	25 400	3 190	26 000	3 190	
800	26 300	3 390	27 000	3 390	

Components Weight

Components Weight			
	ZX350 н-7G	ZX350LCH-7G	
Counterweight	6 900	6 900	
Monoblock boom (with arm cylinder and boom cylinder)	4 000	4 000	
Arm 2.33 m (with bucket cylinder)	1 240	1 240	
Bucket ISO 7451 : 2007 2.00 m ³	1 700	1 700	
Bucket ISO 7451 : 2007 2.30 m ³	1 800	1 800	

BACKHOE ATTACHMENTS

ZX350H-7G

Bucket	Capacity (m ³)	Width (mm)				Recommendation
	ISO7451: 2007 heaped	Without side cutters	With side cutters	No. of teeth Weight (kg)	Arm 2.33 m H	
Pools buokot	2.00	1 630	1 660	5	1 700	0
Rock bucket	2.30	1 630	1 660	5	1 800	0

ZX350LCH-7G

	Capacity (m ³)	Width	ı (mm)			Recommendation
Bucket	ISO7451: 2007 heaped	Without side cutters	With side cutters	No. of teeth	Weight (kg)	Arm 2.33 m H
Rock bucket	2.00	1 630	1 660	5	1 700	0
	2.30	1 630	1 660	5	1 800	0

○ Suitable for materials with density of 1 600 kg/m³ or less

MACHINE CAPACITIES

Notes: 1. Ratings are based on ISO 10567 : 2007.

- 2. Machine 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.

For machine capacities, subtract installed attachment and quick hitch weight from machine capacities. To determine lifting capacities, apply "Rating over-side or 360 degrees" machine capacities from the table and deduct weight of installed attachment and quick hitch.

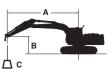
Optional feature may affect machine performance.

ZX350H-7G

2,00001110														01 000 00	3.000 0	
	Load	Load radius											At max. reach			
Conditions	point height	1.5	ōm	3.0) m	4.5	5 m	6.0	m	7.5	i m	9.0) m	ALI	nax. reaci	
	m	ů	¢≓≕	ů	œ⊷	ů	C⊫	ů	¢₽	Ů	₽	Ů	₽	ů	₽	meter
Boom	6.0							*10 850	9 790	9 540	6 830			9 1 1 0	6 520	7.70
6.40 m H Arm	4.5					*15 800	14 270	*12 150	9 320	9 350	6 660			7 940	5 660	8.30
2.33 m H Counter Weight 6 900 kg	3.0							12 700	8 790	9 090	6 410			7 380	5 230	8.60
	1.5							12 240	8 380	8 850	6 190			7 240	5 100	8.62
	0 (Ground)							12 010	8 170	8 700	6 060			7 470	5 240	8.38
	-1.5					*18 870	12 390	11 980	8 140	8 700	6 060			8 210	5 740	7.84
	-3.0			*20 430	*20 430	*16 520	12 620	12 150	8 300					9 910	6 890	6.93
	-4.5					*12 080	*12 080							*9 600	*9 600	5.47
	-6.0															

ZX350LCH-7G

ZASSULUTI	10								U''	lating over-		Trauny	over-side	or 360 de	grees 0	niit. Ky
	Load			Load radius									At max. reach			
Conditions	point height	1.5	ōm	3.0) m	4.5	ōm	6.0	m	7.5	m	9.0	m	ALI	nax. reaci	
	m	ů	¢≓≕	Ů	¢≓≕	Ů	¢≓≕	Ů	₽	Ů	¢₽	ů	₽	ů	₽	meter
Boom 6.40 m H	6.0							*10 850	9 940	*10 070	6 940			*10 060	6 630	7.70
Arm	4.5					*15 800	14 490	*12 150	9 470	*10 470	6 770			8 930	5 760	8.30
2.33 m H Counter Weight 6 900 kg	3.0							*13 650	8 940	10 260	6 530			8 310	5 320	8.60
	1.5							13 980	8 530	10 010	6 300			8 160	5 190	8.62
	0 (Ground)							13 740	8 320	9 860	6 170			8 440	5 340	8.38
	-1.5					*18 870	12 610	13 710	8 290	9 860	6 170			9 290	5 850	7.84
	-3.0			*20 430	*20 430	*16 520	12 850	*12 830	8 450					*10 530	7 020	6.93
	-4.5					*12 080	*12 080							*9 600	*9 600	5.47
	-6.0															



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

	ĥ	Rating over-front	₽	Rating over-side or 360 degrees	Unit : kg
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EQUIPMENT

ENGINE	ZX350H-7G / ZX350LCH-7G
Air cleaner double filters	•
Alternator 50 A	•
Auto idle system	•
Auto shut-down control	•
Cartridge-type engine oil filter	•
Cartridge-type fuel main filter	•
Cartridge-type fuel pre-filter with water separator	•
Cold fuel resistence valve	•
ConSite OIL (sensor)*	•
Dry-type air filter with evacuator valve (with air filter restriction indicator)	•
Dust-proof indoor net	•
ECO/PWR mode control	•
Electrical fuel feed pump	•
Engine oil drain coupler	•
Expansion tank	•
Fan guard	•
Fuel cooler	•
Isolation-mounted engine	•
Maintenance free pre-cleaner	0
Radiator, oil cooler and intercooler	•

HYDRAULIC SYSTEM	ZX350H-7G / ZX350LCH-7G
Auto power lift	•
ConSite OIL (sensor)*	0
Control valve with main relief valve	•
High mesh full flow filter	•
High mesh full flow filter with restriction indicator	0
One extra port for control valve	•
Pilot filter	•
Power boost	•
Suction filter	•
Work mode selector	•

	ZX350H-7G/
САВ	ZX350LCH-7G
All-weather sound suppressed steel cab	•
Auto control air conditioner	•
Bluetooth® integrated radio	•
Console height adjustment	•
CRES VII (center pillar reinforced structure) cab	•
Drink holder with hot and cool function	•
Electric double horn	•
Engine shut-off switch	•
Equipped with reinforced, tinted (green color) glass windows	•
Evacuation hammer	•
Floor mat	•
Footrest	•
Front guard : mesh (lower)	0
Front guard : mesh (lower & upper)	0
Front guard : mesh (lower), vertical bar (upper)	0
Front guard : vertical bar (lower & upper)	0
Front window washer (1 point)	•
Glove compartment	•
Hands-free calling device	•
Hot and cool box	•
Intermittent windshield wipers	•
Key cylinder light	•
LED room light	•
Magazine rack	•
Pilot shut-off lever	•
Power outlet 12 V	0
Power outlet 24 V	•
Rain guard (without OPG front guard)	0
Rear tray	•
Retractable seat belt	•
ROPS (ISO12117-2:2008) compliant cab	-
ROPS (ISO12117-2:2008) non compliant cab	•
Rubber radio antenna	•
Seat : non suspension (fabric)	•
Seat : mechanical suspension seat	0
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	•
Seat belt reminder	•
Short wrist control levers	•
Smartphone holder	•
USB power supply	0
Windows on front, upper, lower and left side can be opened	•
2 speakers	•
4 fluid-filled elastic mounts	•
8 inch monitor	•

•: Standard equipment O: Optional equipment -: Not applicable

MONITOR SYSTEM	ZX350H-7G / ZX350LCH-7G
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc	•
Alarm buzzers: overheat, engine oil pressure, overload, trouble, etc	•
Display of meters: water temperature, hour, fuel rate, clock, etc	•
Other displays: work mode, auto-idle, glow, rear view monitor, operating conditions, etc	•
35 languages selection	•

LIGHTS	ZX350H-7G / ZX350LCH-7G
Additional boom LED light with cover	0
Additional cab roof front LED lights	0
Additional cab roof rear LED lights	0
LED lights for camera (side and rear-view camera)	•
2 working LED lights	•

UPPER STRUCTURE	ZX350H-7G / ZX350LCH-7G
AERIAL ANGLE (270-degree view camera system)	•
Batteries	•
Counterweight 6 900 kg	•
Electric fuel refilling pump with auto stop	0
Electric fuel refilling pump with auto stop and filter	0
Fuel level float	•
Hydraulic oil level gauge	•
Lockable fuel refilling cap	•
Lockable machine covers	•
Lockable tool box	•
Platform handrail	•
Platform handrail (additional)	•
Rear view camera	•
Skid-resistant plates	•
Swing parking brake	•
Undercover	•
Undercover 6.0 mm reinforced	0
Utility space	•
2 way disconnect switch	•

Standard and optional equipment may vary by country, so please authorized dealer for details.	e consult
* Engine oil and hydraulic oil monitoring	

•: Standard equipment O: Optional equipment -: Not applicable

UNDERCARRIAGE	ZX350H-7G / ZX350LCH-7G
Bolt-on sprocket	•
Full track guard	0
Greasing type track adjuster	•
Reinforced track links with pin seals	0
Shoe: 600 mm triple grouser	•
Shoe: 600 mm triple grouser reinforced	0
Shoe: 700 mm triple grouser	0
Shoe: 800 mm triple grouser	0
Towing hook	•
Track undercover	0
Travel direction mark on track frame	•
Travel motor covers	•
Travel parking brake	•
Upper and lower rollers	•
3 track guards (each side)	0
4 tie down hooks	•

RONT ATTACHMENTS	ZX350H-7G / ZX350LCH-7G
n tip remote lubrication	•
n 2.33 m	•
n 2.33 m (Lower Reinforced)	0
om 6.40 m H	•
cket 2.00 m ³ rock (ISO 7451 : 2007 heaped) Tiger Tooth	0
sket 2.00 m 3 rock (ISO 7451 : 2007 heaped) Standard th	0
cket 2.30 m ³ rock (ISO 7451 : 2007 heaped) Tiger Tooth	•
cket 2.30 m ³ rock (ISO 7451 : 2007 heaped) Standard oth	0
sted bucket link A	•
ntralized lubrication system	•
seal on all bucket pins	•
nged pin	•
bushing	•
nfoced link B	•
nforced resin thrust plate	•
(tungsten-carbide) thermal spraying	•
lded bucket link A	0

TACHMENTS	ZX350H-7G / ZX350LCH-7G
achment basic piping	0
aker and crusher piping	-
h mesh full flow fillter with restriction indicator	0
e filter	0
ts for breaker and crusher	-
ump combined flow for attachment basic piping	0

ISCELLANEOUS	ZX350H-7G / ZX350LCH-7G
nSite	•
bal e-Service	•
board information controller	•
andard tool kit	•

MEMO

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Before using a machine with a satellite or tele-communication system, please make sure that the satellite or tele-communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly. 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 using, please read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery Co., Ltd.

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