

HYDRAULIC EXCAVATOR

- Model Code: ZX330-3 / ZX330LC-3 / ZX350H-3 / ZX350LCH-3 / ZX350K-3 / ZX350LCK-3

■ Backhoe Bucket: SAE, PCSA Heaped: 1.15 - 1.86 m³ CECE Heaped: 1.00 - 1.60 m³

The Power to Perform

The ZAXIS-3 series is a new generation of excavators designed to provide more efficient power, productivity and improved operator comfort. By listening carefully to the wishes of the end-user, HITACHI not only understands your business, but also provides the reliable solutions you've been looking for.

NEW AND IMPROVED

- Performance: 10 % higher production
- Comfort: **Excellent visibility Enhanced controllability** Lower noise level
- Reduced running costs: Lower fuel consumption per m³ Improved durability and reliability
- New equipment: Rear view camera (optional)





Multi function monitor

Maintenance support Attachment support system

Rear view camera (optional) Theft deterrent system

Fuel consumption monitoring

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Productivity

New E-mode

Page 4-5

Operator comfort

New hydraulic system HIOS III

Enhanced boom recirculation system

New electronic controlled diesel engine

Hydraulic boosting system

Durability and reliability

Safety measures

CRES II cab Cab right bars

Pilot control shut-off lever Engine shut-off switch

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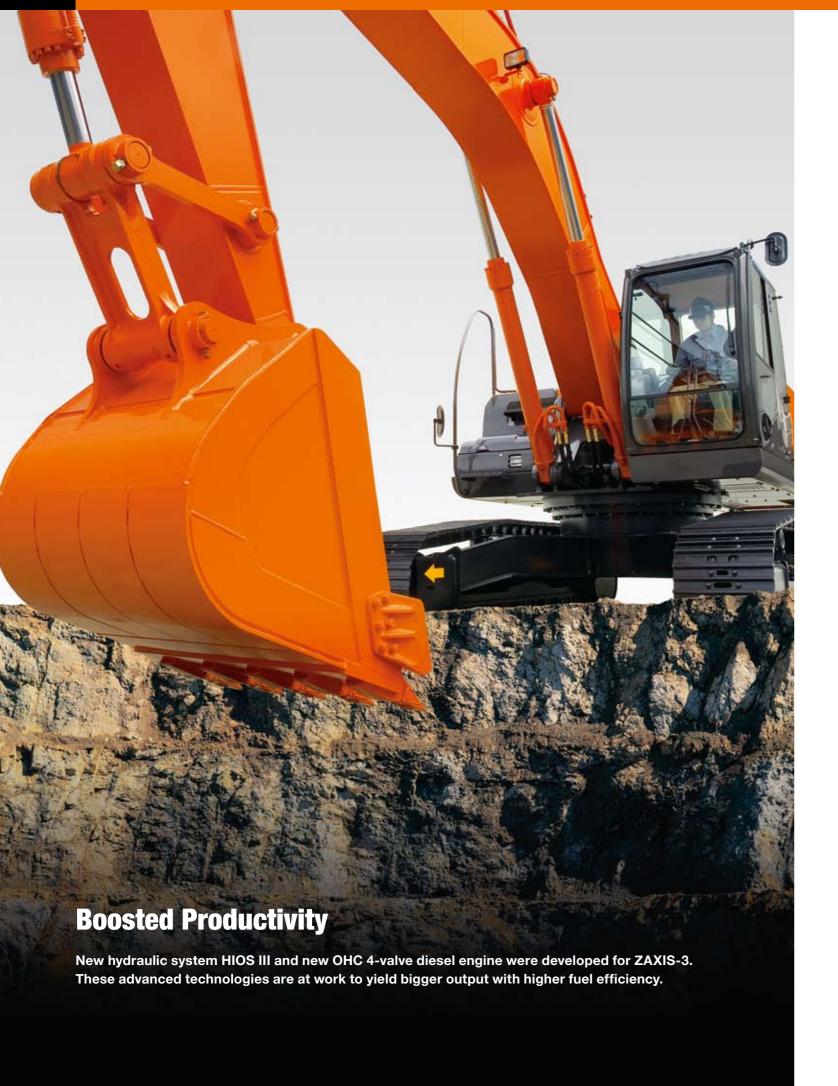
Environment measures

Array of low noise mechanisms

• The new engine complies with the Emission Regulations

regulation 2000 / 14 / EC,

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.



More production, less fuel consumption

Increased Production

A combination of the hydraulic system (HIOS*III) and new OHC** 4-valve engine allows the efficient use of hydraulic pressure to increase speeds of actuators and boost production with higher fuel efficiency. The productivity is increased 10 % in comparison to previous model ZAXIS-1.

*Human & Intelligent Operation System

**OverHead Camshaft

New E-mode

The new E mode, H / P mode and P mode can be selected to suit job needs. The new E mode can save fuel consumption by up to 10 % compared to the previous P mode, while yielding similar production.

Increase in Swing Torque and Traction Force

Swing torque and traction force are increased significantly.

- -Swing torque 10% UP
- -Traction force 18% UP

Sophisticated Travel Control; At climbing or steering, when the machine needs more traction force, the engine speed automatically increases which makes the machine faster.

Efficient hydraulic control - HIOS III

ZAXIS-1 adapted HIOS II hydraulic system that is suitable for fine controllability by the operators. Continuously HITACHI developed new advanced hydraulic technology HIOS III for ZAXIS-3.

In addition to the fine controllability this new system increases the efficiency of hydraulic circuit and increases speed of actuators.

The Hydraulic Boosting System

In arm roll-in and boom raise operation, excess pressurized oil is delivered from boom cylinder rod side to arm cylinder bottom side to increase flow rate giving 20 % higher arm roll-in speed. Excess pressurized oil from boom cylinder rod side is delivered to arm cylinder bottom side through a regenerative valve to increase flow rate for productive operation.

Enhanced Boom Recirculation System

In combined operation of boom lower and arm, pressurized oil from boom cylinder bottom side is delivered to boom cylinder rod side, assisted by boom weight, for boom lowering. At the same time, pressure oil from the pump is delivered to the arm cylinder for arm

This mechanism allows an increase of speed in combined operation of 15 %.

Development concept of new engine

OHC 4-Valve Engine

The new OHC -valve diesel engine is developed and built to comply with the rigorous Emission Regulations enforced in 2006 in U.S. and EU. This new engine contributes to environmental preservation. At the same time it realizes high durability and low fuel consumption by adapting the latest advanced engine technology.

Common Rail Type Fuel Injection System

Electronic control common rail type fuel injection system drives an integrated fuel pump at an ultrahigh pressure to distribute fuel to each injector per cylinder through a common rail.

This enables optimum combustion to generate big horsepower, and reduce PM* (diesel plume) and fuel consumption.

Cooled EGR** System

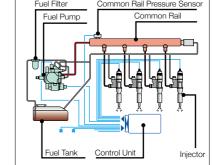
Exhaust gas is partially mixed with intake air to lower combustion temperature for reducing NOx and fuel consumption.

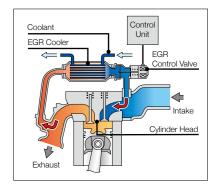
What's more, the EGR cooler cools down exhaust gas to increase air concentration for complete combustion, reducing PM* (diesel plume).

*Particulate Matter

**Exhaust Gas Recirculation











Wide adjustable armrests and a retractable seat belt are included. Short stroke levers allow for continuous operation with less fatigue. Three switches on the lever (optional) can be set to operate attachments other than buckets. The cab is pressurized to keep out dust. Noise and vibrations are kept to a minimum due to the elastic mounts, filled

Visibility is improved especially for the right downward view. Sliding windows on the front and side enable direct communication between operator and other workers. Foot space has increased and travel pedals have been redesigned for easier operation. A flat floor allows for easy cleaning. Ergonomic controls and switches, fully automatic air conditioner and a radio complete the package.

Embedded Information Technology

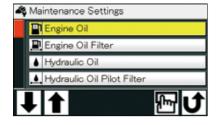
The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear view camera (optional). A theft deterrent system and multi-language selection is also available.

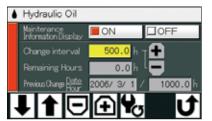
Multi function monitor



The color LCD monitor, located in the cab, indicates coolant temperature, fuel level, and maintenance data. It also allows one-touch adjustment of the attachment. The display can also be adjusted to day or night shift.

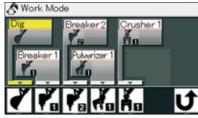
Maintenance support





Replacement timing of hydraulic oil and fuel filters is alerted to the operator through the LCD monitor according to the schedule preset by the user each time when turning the key switch. The scheduled maintenance can prevent the failure of the machine.

Attachment support system (work mode selector)



When replacing the attachment, oil flow adjustment can automatically be done by one touch on the work mode selection display on the LCD monitor. Minor adjustments of oil flow is possible if necessary.

F1 F2 F3 F4



The electronic immobiliser requires the entry of a password to the multifunctional monitor each time when starting the engine to prevent theft and vandalism.

Rear view camera (optional)



The widescreen color LCD, in tandem with the rear view camera on the counterweight, provides a convenient view of the area behind the unit.

The rear view camera automatically works when traveling backward, and can also be manually turned on with a select switch on the monitor.

Multi-language selection



The menu allows selection from 12 languages.

Fuel consumption monitoring



Fuel consumption per operating hour is computed, and the result is displayed on the LCD monitor. This information suggests refuelling timing, and guides energy-saving operation and efficient job management.



Strengthened undercarriage

Upper and lower rollers and upper roller brackets are increased in size for higher

Track links are thickened and reshaped for higher durability and rigidity. Three track guards are provided

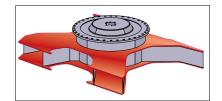
This effectively protects track links from disengagement during steering. Side frame height is increased by approx. 13 %.





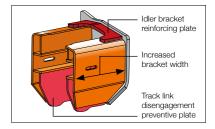
Strengthened X beam and side frames

The X-beam is strengthened by the improved construction and enlarged box sections. The section is increased in strength up to 45 % (maximum). Top and bottom plates of the X-beam use monolithic plates, instead of conventional welded four plates. This eliminates welding to strengthen the X-beam.



Improved idler brackets

The idler bracket reinforcing plate is thickened greatly for higher durability to prevent the opening of the idler bracket. The track link disengagement preventive plate, located just behind the idler bracket, is thickened for higher durability, and reshaped by extending its stepped end to prevent the disengagement of track links.



Strengthened front attachment

The boom top bracket is strengthened by using high-tensile steel. At arm-bucket joint, the arm top is hardened with WC thermal spraying (Tungsten-Carbide) for greater wear resistance at its contact surface with bucket, reducing jerking. Reinforced resin thrust plates designed to reduce noise and resist wear.

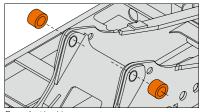
The new HN bushings, containing "solid molybdenum-based lubricant", are utilized at the boom-arm joint and arm cylinder mounting area for better lubrication and higher durability. (At other joints, conventional HN bushings are also utilized.)

The boom foot is enlarged for higher strength. This improvement increases the durability and reliable under heavy-duty operation.









Simplified Maintenance

The ZAXIS-3 series meet customer demands for simplified maintenance. Regular maintenance is the key for keeping equipment in top condition, which can help to prevent costly downtime. In addition, a regularly serviced machine has higher residual value. There are many service features to be found on the ZAXIS-3 series.

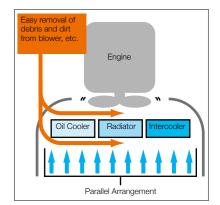


Parallel arrangement of the cooling pack





The oil cooler, radiator and intercooler are laid out in a parallel arrangement, instead of the conventional in-line arrangement. This parallel arrangement is significantly easier to clean around the radiator. The air conditioner condenser can be opened for easy cleaning of the condenser and the radiator located behind.



Conveniently located servicing points





Wide doors give access, from ground level, to the fuel filter, water separator and engine oil filter. A large handrail, steps and anti-skid plates lead to the engine cover. The engine oil pan is fitted with a drain coupler. When draining, an associated drain hose is connected to the drain coupler. The drain coupler is reliable, avoiding oil leakage and vandalism.



The fresh air filter for the air conditioner is relocated to cab door side from conventional location behind the operator seat. This allows easy cleaning and replacement of the fresh air filter, like the air circulation filter inside the cab.

Extended oil and filter change intervals

Front Pin Lubricating Intervals and Consumables Replacement	
	New ZAXIS 330
Lubricant Bucket	500 h
Boom Foot	500 h
Front	500 h
Consumables Engine Oil	500 h
Engine Oil Filter	500 h
Hydraulic Oil	5 000 h
Hydraulic Oil Filter	1 000 h
Fuel Filter	500 h

The oil and filter change intervals have been extended considerably, reducing maintenance time and expenses.

Engine oil consumption is lower.

Hydraulic oil can be used up to 5 000 hours



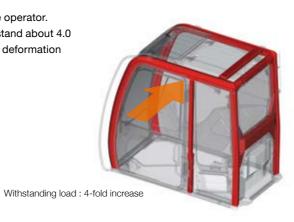
Ensuring the safety of the operator and other workers on the jobsite is an important concern for HITACHI. That is why the ZAXIS-3 series has a number of safety features including a new reinforced cab and shut-off mechanisms for engine and pilot controls.

Environmental Features

HITACHI takes its responsibility when it comes to the environment. Our production facilities have ISO 14001 certification. The HITACHI machine is lead free and has a low-noise design, therefore HITACHI customers get one of the most environmentally considerate hydraulic excavators available today.

CRES II cab

The CRES II cab is designed to help with "just in case" protection for the operator. Safety in case of tipping is improved. The cab top, for instance, can withstand about 4.0 times conventional load when side load is applied to the cab top until its deformation reaches 200 mm.



Pilot control shut-off lever

Additional features

Cab right bars



Evacuation hammer



Other features include a retractable seat belt, evacuation hammer and emergency engine shut-off switch. A shut-off lever for pilot control helps to prevent unintentional movements. In addition, a Falling Object Protective Structure (OPG top guard, level II) guard is optionally available. For the cab windows there is a choice of laminated or tempered glass.

The ZAXIS-3 series is equipped with a clean but powerful engine to comply with Tier 3, and Stage III A. An engine emission regulations effective in the U.S. EPA and European Union from 2006. Reduced particulate matter (PM) output and lower nitrogen oxide (NOx) levels.



A quieter machine

A cleaner machine

A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. Second, a fan with curved blades reduces air resistance and air flow noise. Third, a time-tested muffler suppresses engine noise significantly.



A recyclable machine

Over 97 % of the ZAXIS-3 series can be recycled. All resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminium and all wires are lead-less. In addition, biodegradable hydraulic oil is available for jobsites where special environmental care is required.



Parts & Service

Over the years, we have gained experience in one of the most competitive service markets in the world - Japan.
Using our know-how in dealing directly with customers, we have created a worldwide support system that is highly capable.



Parts

HITACHI only offers genuine high quality parts. We guarantee that these parts have high performance and long life. We manage around 1 000 000 types of parts all around the world. They are designed and built to be the best match for your HITACHI equipment. HITACHI has a global parts distribution network that makes sure you get what you need as quickly as possible. We have more than 150 dealers worldwide who provide the closest support for your needs. In most cases, your dealer will have the replacement part that you require. If a dealer does not have a certain part, he can order it from four fully stocked parts depots located across the world. These distribution centres are all connected by an online system that gives them access to shared information on stocks, such as the number and type of available parts. The depots, which in turn are stocked by a parts center in Japan, minimize delivery time and enable you to get your parts as efficiently and quickly as possible.



Service

Our goal is to "keep customer equipment at a maximum performance level". To fulfil this goal, we have set more than 150 dealers all over the world. They have highly trained technicians, and provide a number of support programs.

HITACHI provides a unique extended warranty program called HITACHI Extended Life Program, or HELP. To minimize downtime during troubleshooting, we developed a PDA based diagnostic system called "Dr.ZX". To keep our customers' equipment in top running shape, good service is indispensable. We believe personnel training is the key to providing the best service.

If you would like more information regarding parts and/or service, please ask your nearest HITACHI dealer. Not all programs and/or services are available in every market or region.

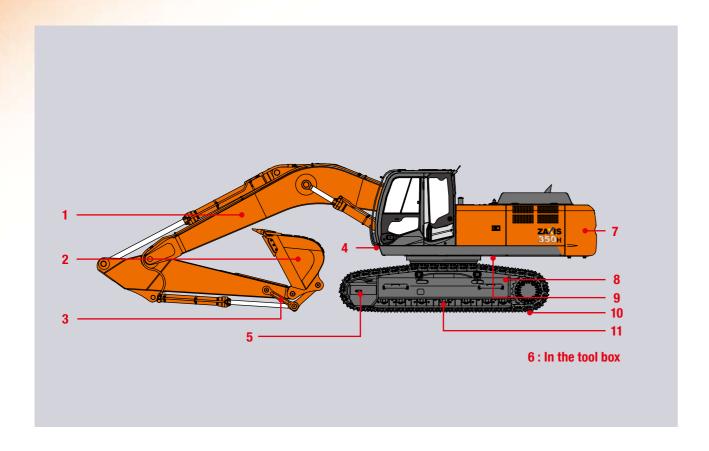
Base Machine for Doing a Wide Range of Jobs.

Can be used with a wide range of hydraulic attachments.

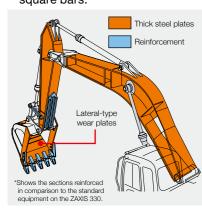
Options include large-capacity additional pump along with piping and components for the attachments.

Heavy-Duty Version H-Series

ZAXIS 350H / ZAXIS 350LCH



1 Reinforced thick steel front section. (H-boom / H-arm)
Thicker steel arm end.
Damage prevention plate and square bars.



2 Rock bucket and lateral wear plates.



- 3 Reinforced link B.
- 4 Front glass lower guard.
- 5 Reinforced idler bracket.
- 6 Electric grease gun.

- 7 7 400 kg counterweight.
- 8 Reinforced lower flange. (27 % Increase)
- 9 6.0 mm thickness undercover.
- **10** 600 mm reinforced triple grouser shoe.
- 11 Full track guard.

Demolition Version K-Series

ZAXIS 350K / ZAXIS 350LCK



- 1 Attachment basic piping.
- 2 Damage prevention plate.
- 3 Reinforced link B for demolition.
- 4 K-reinforced bucket.
- 5 Twin wiper.
- 6 Reinforced idler bracket.
- 7 Front glass lower guard.
- 8 Track undercover.

- 9 6.0 mm thickness undercover.
- 10 K-cab. (CRES II cab with overhead windows & guard)
- 11 Front screen of fuel cooler and air condenser.
- 12 8 200 kg counterweight.
- 13 Reinforced lower flange. (27 % Increase)
- **14** 600 mm reinforced triple grouser shoe.
- 15 Electric grease gun.

OPTION

- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Front glass upper guard
- Pilot accumulator

Notes: Photo shown model equipped
with optional accessories for
breaker and crusher.
Total weight of attachments to
be mounted is from a standpoint
of machine stability. For more
details, contact your distributor.

SPECIFICATIONS

ENGINE	
Model	Isuzu AH-6HK1X
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 9249, net	202 kW (271 HP) at 1 900 min-1 (rpm)
EEC 80/1269, net	202 kW (271 HP) at 1 900 min-1 (rpm)
SAE J1349, net	202 kW (271 HP) at 1 900 min-1 (rpm)
Maximum torque	1 080 Nm (110 kgf m) at 1 500 min-1 (rpm)
Piston displacement	7.790 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 128 Ah

HYDRAULIC SYSTEM

- Work mode selector
- Digging mode / Attachment mode
- Engine speed sensing system

Pilot pump...... 1 gear pum Maximum oil flow... 34 L/min

Hydraulic Motors

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	34.3 MPa (350 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power boost	36.3 MPa (370 kgf/cm ²)

Hvdraulic Cvlinders

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

Dimensions

	Quantity	Bore	Rod diameter
Boom	2	145 mm	100 mm
Arm	1	170 mm	115 mm
Bucket	1	140 mm	95 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 and swing / travel motor drain lines.

CONTROLS

Pilot controls. Hitachi's original shockless valve.

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 bathed in 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.

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for visibility. Front windows (upper and lower) can be opened. Reclining seat with armrests; adjustable with or without control levers.

* International Standardization Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. Flat and triangular shoes are also available. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

Upper rollers	2
Lower rollers	7: ZX330-3 / ZX350H-3 / ZX350K-3 8: ZX330LC-3 / ZX350LCH-3 / ZX350LCK-3
Track shoes	45 : ZX330-3 / ZX350H-3 / ZX350K-3 48 : ZX330LC-3 / ZX350LCH-3 / ZX350LCK-3
Track guard	3: ZX330-3 / ZX330LC-3 / ZX350K-3 / ZX350LCK-3 Eull track guard: 7X350H-3 / 7X350LCH-3

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 shockless relief valve built in travel motor absorbs shocks when stopping travel. Automatic transmission system: High-Low.

Travel speeds High: 0 to 5.0 km/h Low: 0 to 3.2 km/h

Maximum traction force.... 298 kN (30 400 kgf)

WEIGHTS AND GROUND PRESSURE

ZX330-3:

Equipped with 6.40 m boom, 3.20 m arm and 1.40 $\rm m^3$ bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
	600 mm	31 600 kg	64 kPa (0.65 kgf/cm²)
Triple grouser	700 mm	32 200 kg	56 kPa (0.57 kgf/cm²)
J	800 mm	32 600 kg	49 kPa (0.50 kgf/cm²)
Flat	600 mm	32 500 kg	66 kPa (0.67 kgf/cm²)

ZX330LC-3:

Equipped with 6.40 m boom, 3.20 m arm and 1.40 $\rm m^3$ bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
	600 mm	32 200 kg	61 kPa (0.62 kgf/cm²)
Triple grouser	700 mm	32 800 kg	53 kPa (0.54 kgf/cm²)
9	800 mm	33 200 kg	47 kPa (0.48 kgf/cm²)
Flat	600 mm	33 100 kg	62 kPa (0.63 kgf/cm²)

ZX350H-3:

Equipped with 6.40 m H-boom, 3.20 m H-arm and 1.40 $\rm m^3$ H-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	33 700 kg	68 kPa (0.69 kgf/cm²)

ZX350LCH-3:

Equipped with 6.40 m H-boom, 3.20 m H-arm and 1.40 m³ H-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	34 200 kg	64 kPa (0.65 kgf/cm²)

ZX350K-3

Equipped with 6.40 m K-boom, 3.20 m K-arm and 1.40 m³ K-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	34 400 kg	70 kPa (0.71 kgf/cm²)

ZX350LCK-3:

Equipped with 6.40 m K-boom, 3.20 m K-arm and 1.40 $\rm m^3$ K-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	35 000 kg	66 kPa (0.67 kgf/cm²)

Weight of the basic machines [including 6 800 kg, 7 400 kg H-type, 8 200 kg K-type counterweight and triple grouser shoes, excluding frontend attachment, fuel, hydraulic oil, engine oil and coolant etc.] are:

ZX330-3	24 100 kg with 600 mm shoes
ZX330LC-3	24 700 kg with 600 mm shoes
ZX350H-3	25 500 kg with 600 mm reinforced shoes
ZX350LCH-3	26 000 kg with 600 mm reinforced shoes
ZX350K-3	26 300 kg with 600 mm reinforced shoes
ZX350LCK-3	26 900 kg with 600 mm reinforced shoes

SERVICE REFILL CAPACITIES	
Fuel tank	630.0 L
Engine coolant	32.0 L
Engine oil	41.0 L
Swing device	17.0 L
Travel device (each side)	9.2 L
Hydraulic system	374.0 L
Hydraulic oil tank	180.0 L

SPECIFICATIONS

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 6.40 m boom, and 2.67 m, 3.20 m, and 4.00 m arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

Buckets

									Re	comme	ndation				
Capaci	ty	Wie	dth	No. of teeth	Weight		ZX330-3	1	Z	X330LC	-3	ZX350	0H-3 LCH-3		50K-3 0LCK-3
SAE, PCSA heaped	CECE heaped	Without side cutters	With side cutters			2.67 m arm	3.20 m arm	4.00m arm	2.67 m arm	3.20 m arm	4.00m arm	3.2 H-a	0 m arm	3.20 K-a	0 m arm
1.15 m ³	1.00 m ³	1 100 mm	1 230 mm	5	1 080 kg	0	0	0	0	0	0	_	_	0	0
1.40 m ³	1.20 m ³	1 280 mm	1 410 mm	5	1 170 kg	0	0	0	0	0	0	_	_	0	0
1.62 m ³	1.40 m ³	1 460 mm	1 590 mm	5	1 260 kg	0	0	_	0	0		_	_	0	0
1.86 m ³	1.60 m ³	1 640 mm	_	5	1 220 kg		_	_		_	_	_	_	_	_
*1 1.40 m ³	1.20 m³	1 280 mm	1 410 mm	5	1 130 kg	0	0	0	0	0	0	_	_	0	0
*2 1.40 m ³	1.20 m³	1 280 mm	1 410 mm	5	1 150 kg	0	0	0	0	0	0	_	_	0	0
*3 1.40 m ³	1.20 m ³	1 280 mm	1 410 mm	5	1 380 kg	0	0	0	0	0	0	_	_	0	0
*1, 3 1.40 m ³	1.20 m ³	1 280 mm	1 410 mm	5	1 340 kg	0	0	0	0	0	0	-	_	0	0
*3 1.62 m ³	1.40 m ³	1 460 mm	1 590 mm	5	1 500 kg	0	0	_	0	0		_	_	-	-
*4 1.15 m ³	1.00 m ³	_	1 160 mm	5	1 240 kg	•	•	0	•	•	0	•	•	_	_
*1, 4 1.38 m ³	1.20 m ³	_	1 360 mm	5	1 340 kg	•	•	0	•	•	0	•	•	_	_
*2, 4 1.38 m ³	1.20 m³	_	1 360 mm	5	1 360 kg	•	•	0	•	•	0	•	•	-	_
*1, 4 1.50 m ³	1.30 m ³	_	1 450 mm	5	1 400 kg	•	•	0	•	•	0	•	•	-	_
*2, 4 1.50 m ³	1.30 m³	_	1 450 mm	5	1 430 kg	•	•	0	•	•	0	•	•	-	_
*5 0.90 mm	0.80 mm	1 010 mm	_	3	1 470 kg	•	•	_	•	•	_	•	•	_	_
One-point ripper			-	1	850 kg	•	•	-	•	•	_	•	•	-	_
Center-pull type clamsh	ell bucket: 0.60 m	3 (CECE heaped),	Width 940 mm	8	1 130 kg	0	0	0	0	0	0	0	0	0	0
Shell-push type clamshe	ell bucket: 1.00 m	3 (CECE heaped),	Width 975 mm	9	1 470 kg	0	0	0	0	0	0	0	0	0	0

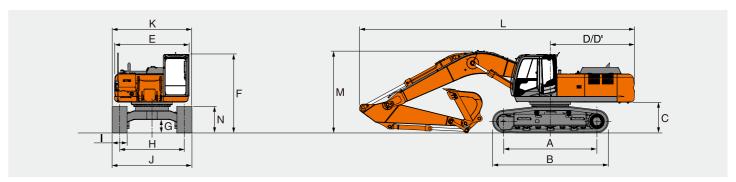
^{*1} Super V teeth type bucket *2 Level-pin-type bucket

- - Suitable for materials with density of 2 000 kg/m³ or less
 Suitable for materials with density of 1 600 kg/m³ or less
 □ Suitable for materials with density of 1 100 kg/m³ or less

 - Heavy-duty service Not applicable

DIMENSIONS

DIMENSIONS

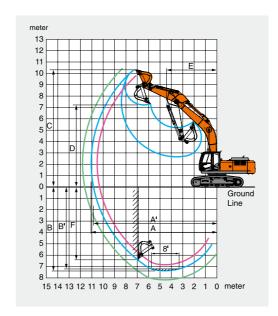


Unit: mm

	ZX330-3	ZX330LC-3	ZX350H-3	ZX350LCH-3	ZX350K-з	ZX350LCK-3
A Distance between tumblers	3 730	4 050	3 730	4 050	3 730	4 050
B Undercarriage length	4 640	4 940	4 650	4 950	4 650	4 950
* C Counterweight clearance	1 160	1 160	1 160	1 160	1 160	1 160
D Rear-end swing radius	3 390	3 390	3 390	3 390	3 390	3 390
D' Rear-end length	3 370	3 370	3 370	3 370	3 370	3 370
E Overall width of upperstructure	2 990	2 990	2 990	2 990	2 990	2 990
F Overall height of cab	3 160	3 160	3 160	3 160	3 290	3 290
* G Min. ground clearance	500	500	500	500	500	500
H Track gauge	2 590	2 590	2 590	2 590	2 590	2 590
I Track shoe width	G 600	G 600	G 600	G 600	G 600	G 600
J Undercarriage width	3 190	3 190	3 190	3 190	3 190	3 190
K Overall width	3 190	3 190	3 190	3 190	3 190	3 190
L Overall length						
With 2.67 m arm	11 130	11 130	_	_	_	_
With 3.20 m arm	11 000	11 000	11 000	11 000	11 000	11 000
With 4.00 m arm	11 090	11 090	_	_	_	_
M Overall height of boom						
With 2.67 m arm	3 470	3 470	_	_	_	_
With 3.20 m arm	3 270	3 270	3 270	3 270	3 290	3 290
With 4.00 m arm	3 600	3 600	_	_	_	_
N Track height with triple grouser shoes	1 060	1 060	1 070	1 070	1 070	1 070

^{*} Excluding track shoe lug G: Triple grouser shoe

WORKING RANGES



					Unit: mm
	ZX	330-3 / ZX330L	C-3	ZX350H-3 / ZX350LCH-3	ZX350K-3 / ZX350LCK-3
Arm length	2.67 m	3.20 m	4.00 m	3.20 m H-arm	3.20 m K-arm
A Max. digging reach	10 570	11 100	11 860	11	100
A' Max. digging reach (on ground)	10 360	10 890	11 670	10	390
B Max. digging depth	6 840	7 380	8 180	7 3	880
B' Max. digging depth (8' level)	6 640	7 210	8 040	7 2	210
C Max. cutting height	9 990	10 360	10 750	10	360
D Max. dumping height	6 940	7 240	7 630	7 2	240
E Min. swing radius	4 610	4 460	4 470	4.4	160
F Max. vertical wall	5 510	6 420	7 270	6.4	-20
Bucket digging force* ISO		23	4 kN (23 900 k	gf)	
Bucket digging force* SAE : PCSA		20	4 kN (20 800 k	gf)	
Arm crowd force* ISO	211 kN (21 500 kgf)	176 kN (18 000 kgf)	151 kN (15 400 kgf)	176 kN (1	8 000 kgf)
Arm crowd force* SAE : PCSA	203 kN (20 700 kgf)	169 kN (17 200 kgf)	146 kN (14 900 kgf)	169 kN (1	7 200 kgf)
Evaluding track shop lug * At nov	vor hooet	-			

Excluding track shoe lug * At power boost

^{*3} Reinforced bucket

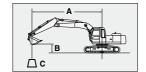
^{*4} Rock bucket

^{*5} Ripper bucket

LIFTING CAPACITIES

Notes: 1. Ratings are based on SAE J1097.

- 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.



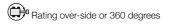
A: Load radius B: Load point height C: Lifting capacity

ZX330 -3										(Rati	ing over-	-side or	360 deg	rees	B R	ating ov	er-front	Unit:	1 000 kg
	Lood								Load	radius										aab
Conditions	Load	4.0	m	5.0) m	6.0	m	7.0) m	8.0	m	9.0) m	10.0	0 m	11.	0 m	AL	max. re	acri
	height		ů		ů		ů		ů		ů		ů		ů		ů		ů	meter
Boom 6.40 m	6.0 m							6.58	*7.45	5.12	*7.27							3.58	5.33	9.6
Arm 2.67 m	4.0 m			10.5	*12.0	7.90	*9.95	6.12	*8.74	4.85	7.14	3.88	5.78					3.07	4.67	10.1
Bucket 1.40 m ³ Counterweight	2.0 m					7.04	10.7	5.58	8.38	4.50	6.76	3.67	5.55					2.92	4.50	10.1
6 800 kg	0 (Ground)					6.61	10.2	5.23	7.99	4.24	6.48	3.50	5.37					3.08	4.76	9.7
Shoe 600 mm	-2.0 m	*11.9	*11.9	*8.61	*8.61	6.55	10.1	5.14	7.89	4.17	6.40							3.71	5.67	8.8
	-4.0 m	*9.23	*9.23	9.08	*12.5	6.75	10.4	5.31	8.08											
	-6.0 m																			
Boom 6.40 m	6.0 m									5.20	*6.63	4.06	*5.36					3.19	*3.61	10.1
Arm 3.20 m	4.0 m					8.09	*9.11	6.23	*8.12	4.91	7.21	3.92	5.83					2.75	*3.70	10.6
Bucket 1.40 m ³	2.0 m			9.38	14.6	7.19	10.9	5.66	8.47	4.53	6.80	3.67	5.56	2.99	4.61			2.61	*4.00	10.7
Counterweight 6 800 kg	0 (Ground)			8.75	*10.3	6.63	10.2	5.24	8.01	4.23	6.47	3.47	5.34	2.87	4.48			2.74	4.29	10.3
Shoe 600 mm	-2.0 m	*9.44	*9.44	8.69	*11.5	6.48	10.1	5.08	7.84	4.10	6.34	3.39	5.26					3.24	5.00	9.4
Grico coo min	-4.0 m	*10.8	*10.8	8.91	*13.6	6.61	10.2	5.17	7.93	4.21	6.45							4.62	*6.55	7.8
	-6.0 m			*8.41	*8.41	*6.76	*6.76													
Boom 6.40 m	6.0 m											4.29	*5.86	3.37	*3.58			2.79	*2.87	10.9
Arm 4.00 m	4.0 m							6.51	*7.21	5.12	*6.75	4.08	6.01	3.28	4.92			2.43	*2.93	11.4
Bucket 1.40 m ³	2.0 m			9.95	*13.5	7.53	*10.8	5.88	8.72	4.69	6.98	3.80	5.70	3.09	4.72	2.51	3.67	2.31	*3.15	11.4
Counterweight	0 (Ground)	*8.95	*8.95	8.94	14.1	6.80	10.4	5.36	8.15	4.32	6.58	3.53	5.42	2.91	4.53			2.39	*3.57	11.1
6 800 kg	-2.0 m	*8.63	*8.63	8.66	13.7	6.49	10.1	5.10	7.86	4.12	6.36	3.39	5.26	2.83	4.44			2.75	4.31	10.3
Shoe 600 mm	-4.0 m	*12.2	*12.2	8.76	13.8	6.51	10.1	5.09	7.85	4.11	6.35	3.42	5.30					3.66	5.59	8.8
	-6.0 m	*13.1	*13.1	9.16	*11.2	6.82	*9.39	5.37	*7.62											

ZX330LC-3

	Lood								Load	radius										
Conditions	Load point	4.0	m (5.0) m	6.0) m	7.0) m	8.0) m	9.0) m	10.0	0 m	11.0) m	Αι	max. re	acn
00.10110	height		ů		ů	©	ů	©	ů	©	ů		ů		ů	-	ů	@	ů	meter
Boom 6.40 m	6.0 m									5.29	*6.63	4.15	*5.36					3.26	*3.61	10.1
Arm 3.20 m	4.0 m					8.23	*9.11	6.34	*8.12	5.00	*7.46	4.00	6.67					2.82	*3.70	10.6
Bucket 1.40 m ³	2.0 m			9.56	*14.9	7.32	*11.8	5.77	9.74	4.62	7.81	3.75	6.41	3.06	5.33			2.68	*4.00	10.7
Counterweight 6 800 kg	0 (Ground)			8.92	*10.3	6.77	11.9	5.35	9.27	4.32	7.48	3.55	6.18	2.94	5.19			2.81	*4.56	10.3
Shoe 600 mm	-2.0 m	*9.44	*9.44	8.87	*11.5	6.61	11.7	5.19	9.09	4.20	7.34	3.47	6.10					3.31	*5.60	9.4
	-4.0 m	*10.8	*10.8	9.08	*13.6	6.74	*11.6	5.28	9.19	4.30	7.45							4.71	*6.55	7.8
	-6.0 m			*8.41	*8.41	*6.76	*6.76													
Boom 6.40 m	6.0 m							6.69	*7.45	5.21	*7.27							3.66	*5.59	9.6
Arm 2.67 m	4.0 m			10.7	*12.0	8.03	*9.95	6.23	*8.74	4.94	*7.97	3.96	6.63					3.14	5.38	10.1
Bucket 1.40 m ³	2.0 m					7.18	12.4	5.69	9.65	4.59	7.77	3.75	6.39					2.99	5.20	10.1
Counterweight 6 800 kg	0 (Ground)					6.74	11.9	5.34	9.25	4.34	7.49	3.58	6.21					3.15	5.50	9.7
Shoe 600 mm	-2.0 m	*11.9	*11.9	*8.61	*8.61	6.68	11.8	5.25	9.15	4.27	7.41							3.80	6.54	8.8
	-4.0 m	*9.23	*9.23	9.25	*12.5	6.88	*10.8	5.42	*9.10											
	-6.0 m																			
Boom 6.40 m	6.0 m											4.37	*5.86	3.44	*3.58			2.85	*2.87	10.9
Arm 4.00 m	4.0 m							6.62	*7.21	5.21	*6.75	4.17	*6.42	3.35	5.64			2.50	*2.93	11.4
Bucket 1.40 m ³	2.0 m			10.1	*13.5	7.66	*10.8	5.99	*9.12	4.79	8.00	3.88	6.55	3.16	5.44	2.58	3.67	2.37	*3.15	11.4
Counterweight 6 800 kg	0 (Ground)	*8.95	*8.95	9.11	*14.7	6.93	12.1	5.47	9.42	4.42	7.59	3.61	6.26	2.98	5.25			2.45	*3.57	11.1
Shoe 600 mm	-2.0 m	*8.63	*8.63	8.83	*14.0	6.63	11.8	5.21	9.12	4.21	7.36	3.47	6.10	2.90	5.15			2.82	*4.32	10.3
	-4.0 m	*12.2	*12.2	8.93	*14.9	6.64	11.8	5.20	9.11	4.21	7.36	3.50	6.14					3.74	*5.83	8.8
	-6.0 m	*13.1	*13.1	9.33	*11.2	6.95	*9.39	5.48	*7.62											

ZX350	DH_3





	Lood								Load	radius								^+	man. 40	aab
Conditions	Load point	4.0	m	5.0) m	6.0	m	7.0) m	8.0) m	9.0) m	10.0	0 m	11.0) m	AL	max. re	acn
	height		ů	@	ů		ů	©	ů		ů		ů		ů		ů	©	ů	meter
H-Boom 6.40 m	6.0 m									5.47	*6.39	4.26	*5.18					3.31	*3.42	10.1
H-Arm 3.20 m						8.56	*8.85	6.57	*7.86	5.16	*7.20	4.10	6.11					2.85	*3.52	10.6
H-Bucket 1.40 m ³ Counterweight	2.0 m			9.96	*14.8	7.61	11.5	5.96	8.93	4.76	7.15	3.84	5.84	3.11	4.82			2.70	*3.81	10.7
	0 (Ground)			9.29	*10.7	7.02	10.8	5.52	8.44	4.44	6.81	3.63	5.60	2.99	4.68			2.83	*4.37	10.3
Shoe 600 mm	-2.0 m	*9.95	*9.95	9.23	*11.9	6.86	10.6	5.35	8.26	4.31	6.66	3.54	5.52					3.36	5.22	9.4
	-4.0 m	*11.1	*11.1	9.45	*13.3	6.99	10.8	5.45	8.37	4.42	6.78							4.82	*6.40	7.8
	-6.0 m			*8.14	*8.14	*6.50	*6.50													

ZX350LCH₋₃

	Laad								Load	radius								۸.		aab
Conditions	Load point	4.0) m	5.0) m	6.0) m	7.0) m	8.0) m	9.0) m	10.	0 m	11.	0 m	Αι	max. re	acn
	height		ů		ů		ů	©	ů		ů	©	ů		ů	@	ů		ů	meter
H-Boom 6.40 m	6.0 m									5.56	*6.39	4.34	*5.18					3.38	*3.42	10.1
H-Arm 3.20 m	4.0 m					8.69	*8.85	6.68	*7.86	5.25	*7.20	4.18	*6.76					2.91	*3.52	10.6
H-Bucket 1.40 m ³	2.0 m			10.1	*14.8	7.74	*11.5	6.07	*9.56	4.85	8.22	3.92	6.72	3.18	5.57			2.76	*3.81	10.7
Counterweight	0 (Ground)			9.46	*10.7	7.15	12.6	5.63	9.77	4.54	7.86	3.71	6.48	3.06	5.43			2.90	*4.37	10.3
7 400 kg Shoe 600 mm	-2.0 m	*9.95	*9.95	9.40	*11.9	6.99	12.4	5.46	9.58	4.40	7.71	3.62	6.39					3.44	*5.41	9.4
G1100 000 111111	-4.0 m	*11.1	*11.1	9.62	*13.3	7.12	*11.3	5.56	*9.50	4.51	*7.82							4.92	*6.40	7.8
	-6.0 m			*8.14	*8.14	*6.50	*6.50													

ZX350K-3

	1 1								Load	radius								۸.		aab
Conditions	Load point	4.0) m	5.0) m	6.0	m	7.0) m	8.0) m	9.0) m	10.	0 m	11.	0 m	AL	max. re	acn
	height		ů	©	ů	©	ů	©	ů		ů	©	ů		ů	@	ů	•	ů	meter
K-Boom 6.40 m	6.0 m									5.83	*5.84	4.57	*5.14					*3.40	*3.40	10.1
K-Arm 3.20 m	4.0 m					*8.16	*8.16	7.01	*7.21	5.52	*6.59	4.41	*6.17					3.10	*3.50	10.6
K-Bucket 1.40 m ³	2.0 m			10.6	*13.7	8.13	*10.6	6.39	*8.79	5.12	7.59	4.15	6.21	3.38	5.14			2.95	*3.79	10.7
Counterweight	0 (Ground)			9.95	*10.8	7.53	11.5	5.94	8.97	4.80	7.24	3.93	5.97	3.25	5.00			3.10	*4.35	10.3
8 200 kg Shoe 600 mm	-2.0 m	*9.53	*9.53	9.89	*11.9	7.37	11.3	5.77	8.79	4.66	7.01	3.84	5.89					3.66	*5.39	9.4
Crico coomin	-4.0 m	*11.2	*11.2	10.1	*12.2	7.50	*10.3	5.86	*8.68	4.77	*7.11							5.22	*5.81	7.8
	-6.0 m			*7.34	*7.34	*5.82	*5.82													

ZX350LCK-3

	Lood								Load	radius								^+		aab
Conditions	Load	4.0) m	5.0) m	6.0	m	7.0) m	8.0) m	9.0) m	10.	0 m	11.0	0 m	AL	max. re	acri
	height		ů	©	ů		ů	©	ů		ů		ů		ů		ů		ů	meter
K-Boom 6.40 m	6.0 m									*5.84	*5.84	4.65	*5.14					*3.40	*3.40	10.1
K-Arm 3.20 m	4.0 m					*8.16	*8.16	7.12	*7.21	5.62	*6.59	4.50	*6.17					3.18	*3.49	10.6
K-Bucket 1.40 m ³	2.0 m			10.8	*13.7	8.27	*10.6	6.51	*8.79	5.22	*7.62	4.23	*6.82	3.45	5.92			3.02	*3.79	10.7
Counterweight	0 (Ground)			10.1	*10.8	7.68	*12.0	6.06	*9.87	4.89	8.34	4.01	6.88	3.32	5.78			3.17	*4.35	10.3
8 200 kg Shoe 600 mm	-2.0 m	*9.53	*9.53	10.1	*11.9	7.51	*11.9	5.89	*9.96	4.76	8.19	3.93	6.79					3.75	*5.39	9.4
CHOO COOTHER	-4.0 m	*11.2	*11.2	10.3	*12.2	7.64	*10.3	5.98	*8.68	4.87	*7.11							5.32	*5.81	7.8
	-6.0 m			*7.34	*7.34	*5.82	*5.82													

STANDARD EQUIPMENT

ENGINE

- H/P mode control - E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Fuel double filters
- Air cleaner double filters
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Fuel cooler
- Electrical fuel feed pump
- Engine oil drain coupler

HYDRAULIC SYSTEM

- Work mode selector
- Power boost
- Auto power lift
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve

CAB

- CRES II (Center pillar reinforced structure) cab
- OPG top guard fitted Level I (ISO10262) compliant cab
- All-weather sound suppressed steel cab
- Equipped with reinforced, tinted (green color) glass windows
- 4 fluid-filled elastic mounts - Intermittent windshield wipers
- Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- Auto control air conditioner
- AM-FM radio with digital clock
- Retractable seat belt
- Drink holder - Cigarette lighter
- Ashtray
- Storage box
- Glove compartment - Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch

MONITOR SYSTEM

- Display of meters: water
- temperature, hour, fuel rate, clock - Other displays: work mode, autoidle, glow, rearview monitor (when optional rear view camera is equipped), operating conditions,
- Alarms: overheat, engine warning, - Upper front window can be opened engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc
 - Alarm buzzers: overheat, engine oil pressure, overload

LIGHTS

- 2 working lights

UPPERSTRUCTURE

- Undercover
- 6 800 kg counterweight
- Fuel level float
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- 3 track guard (each side) and hydraulic track adjuster
- Bolt-on sprocket - Upper rollers

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

- Reinforced track links with pin seals
- 4 tie down hooks
- 600 mm triple grouser shoes - Reinforced side step

FRONT ATTACHMENTS

- HN bushing
- WC (tungsten-carbide) thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Casted bucket link A
- Centralized lubrication system
- Dirt seal on all bucket pins
- Bucket clearance adjust mechanism
- 3.20 m arm
- 1.40 m³ (SAE, PCSA heaped) bucket

MISCELLANEOUS

- Standard tool kit
- Lockable fuel refilling cap
- and handrails
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system

OPTIONAL EQUIPMENT

- Suspension seat
- Hose rupture valves
- Electric fuel refilling pump with auto
- Swing motion alarm device with
- lamps - Travel motion alarm device
- Rear view camera
- Additional pump
- KAB 515 suspension seat
- Transparent roof

- Pre-cleaner
- Tropical cover
- Attachment basic piping
- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Front glass lower guard

 - K-cab (CRES II cab with overhead window and guard)

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

- Additional light (on the top of the cab)
- Additional work light (boom right side)
- 12 V power source
- Pilot accumulator
- Electric grease gun
- Louver cover

Designed to increase ventilation



2000/14/EC,STAGE II, not permitting the use of the CE mark

ZX350H-3 / ZX350LCH-3 (Heavy-duty version)

- 6.40 m H-boom and 3.20 m H-arm - Damage prevention plate and
- square bars - 1.38 m³ (SAE, PCSA heaped)
- Rock bucket (H version)
- Reinforced link B - Front glass lower guard
- 6.0 mm thickness undercover
- 7 400 kg counterweight - 600 mm reinforced triple grouser
- shoe
- Full track quard
- Electric grease gun - Reinforced lower flange

- Reinforced idler bracket

ZX350K-3 / ZX350LCK-3 (Demolition version)

- K-cab (CRES II cab with overhead
- window and guard)
- 1.40 m³ (PCSA heaped)
- Reinforced link B for demolition
- Front glass lower guard
- Track undercover
- 8 200 kg counterweight - High-performance full-flow filter
- Pilot accumulator - Front screen of fuel cooler and air
- condenser
- Twin wiper

- 6.40 m K-boom and 3.20 m K-arm
- K-reinforced bucket
- Attachment basic piping - Damage prevention plate
- 6.0 mm thickness undercover
- 600 mm reinforced triple grouser
- (with restriction indicator)
- Reinforced lower flange
- Reinforced idler bracket

- Lockable machine covers
- Skid-resistant tapes, plates

- Front glass upper guard

- 600 mm reinforced triple grouser shoes

- Full track guard

- Rear light

- Assist piping

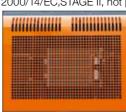
- Rain guard

- Front screen of fuel cooler and air condenser



- Tropical cover

Designed for use in the Tropics (severely hot climate), with extra wide opening for more heat dissipation, thus reducing sound suppression. The machine fitted with this cover cannot pass EU Noise Regulation





These specifications are	subject to	change without notice.
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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.

Hitachi Construction Machinery Co., Ltd. www.hitachi-c-m.com

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