HITACHI



HYDRAULIC EXCAVATOR

- Model Code: ZX240-3 / ZX240LC-3 / ZX250H-3 / ZX250K-3 / ZX250K-3

■ Backhoe Bucket: SAE, PCSA Heaped: 0.80 - 1.40 m³ CECE Heaped: 0.70 - 1.20 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: 11 % higher production
- Comfort: **Excellent visibility Enhanced controllability** Lower noise level
- Reduced running costs: Lower fuel consumption per m³ Improved durability and reliability



Productivity

New E-mode

New hydraulic system HIOS III

Hydraulic boosting system

Enhanced boom recirculation system New electronic controlled diesel engine

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Operator comfort

High visibility inside cab

Short stroke levers

Wide foot space

Comfort designed seat

Improved controllability and operator comfort

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Multi function monitor

Maintenance support

Attachment support system

Rear view camera (optional)

Theft deterrent system Fuel consumption monitoring

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Durability and reliability

Strengthened undercarriage Strengthened X beam

Improved idler brackets

Strengthened front attachment

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Maintenance

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Conveniently located inspection points Extended oil and filter change intervals

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CRES II cab Cab right bars

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• The new engine complies with the Emission Regulations U.S EPA Tier 3, and EU Stage III A



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 11 % 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 15 % 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 11% 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 pressure 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 movement.

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

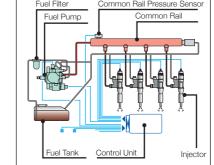
Exhaust gas is partially mixed with intake air to lower combustion temperature for reducing NOx and fuel consumption.

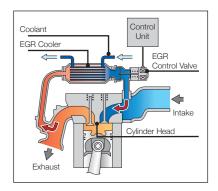
What's more, the EGR cooler cools down exhaust gas to increase air concentration for complete combustion, reducing PM* (diesel plume).

*Particulate Matter

**Exhaust Gas Recirculation









Embedded Information Technology

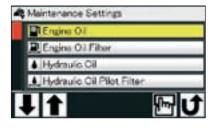
The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear view camera (optional). A theft deterrent system and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

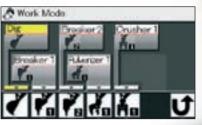
Maintenance support





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



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.

(work mode selector)



Rear view camera (optional)

Theft deterrent system Pinnword Input

vandalism.

The electronic immobiliser requires

the entry of an encryption code to the

multifunctional monitor each time when

starting the engine to prevent theft and



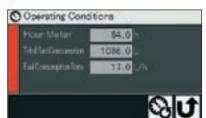
The widescreen color LCD, teamed up with the rear view camera on the counterweight, gives the operator unobstructed rearward viewing. The rear view camera automatically works when traveling, and can also be manually turned on with a select switch on the monitor.



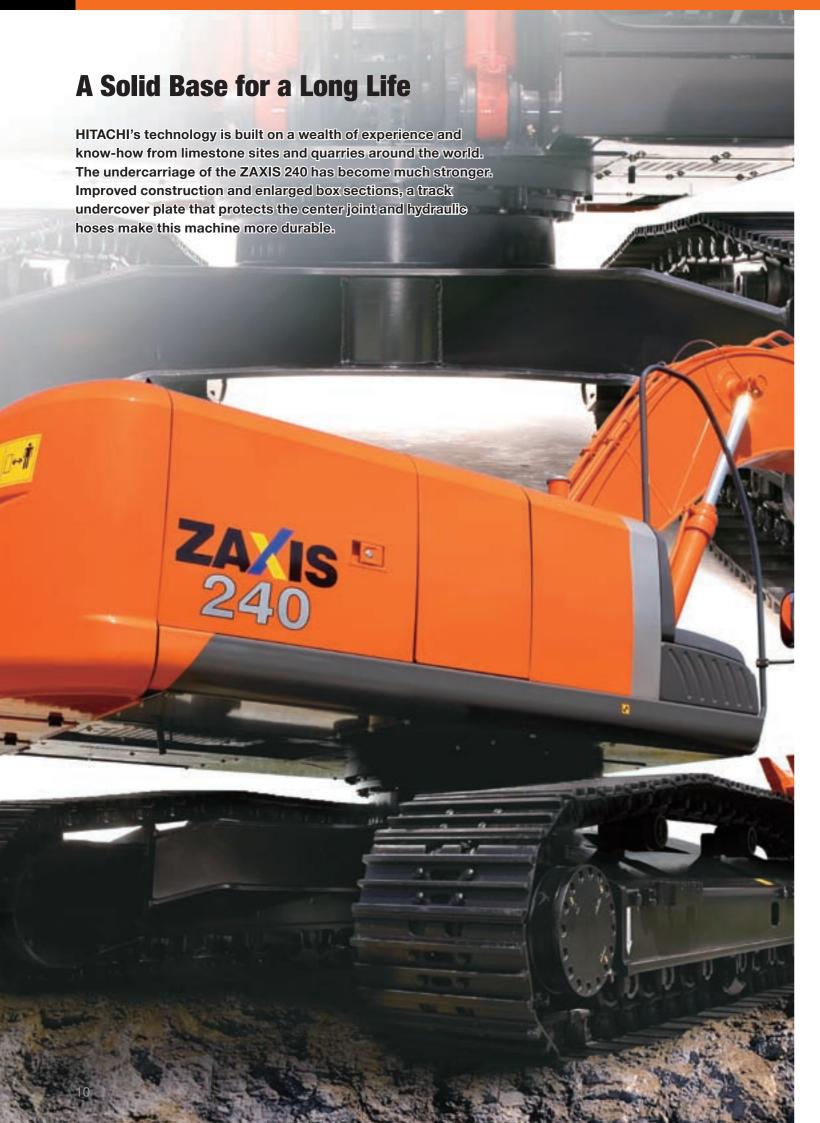


The menu allows selection from 12 languages.

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.



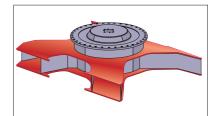
Strengthened undercarriage

Upper rollers and upper roller brackets are increased in size for higher durability. Track links are thickened and reshaped for higher durability and rigidity.



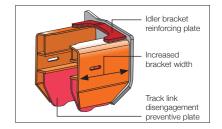
Strengthened X beam and side frames

The X-beam is strengthened by the improved construction and enlarged box sections. The section is increased in strength up to 35 % (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 immediately behind the idle bracket, extends its top to prevent track link disengagement and increase durability.



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.



New HN bushing



WC Thermal spraying



Reinforced resin thrust plates

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

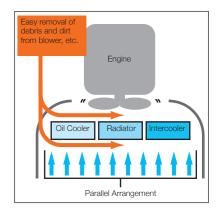


Parallel arrangement of the cooling pack





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 engine. 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

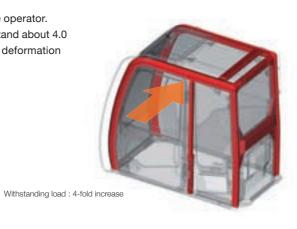
Front Pin Lubricating Intervals and Consumables Replacement		
	New ZAXIS 240	
Lubricant Bucket	500 h	
Boom Foot	500 h	
Front	500 h	
Consumables Engine Oil	500 h	
Engine Oil Filter	500 h	
Hydraulic Oil	5 000 h	
Hydraulic Oil Filter	1 000 h	
Fuel Filter	500 h	

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.



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.



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.

Pilot control shut-off lever



A cleaner machine

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 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.

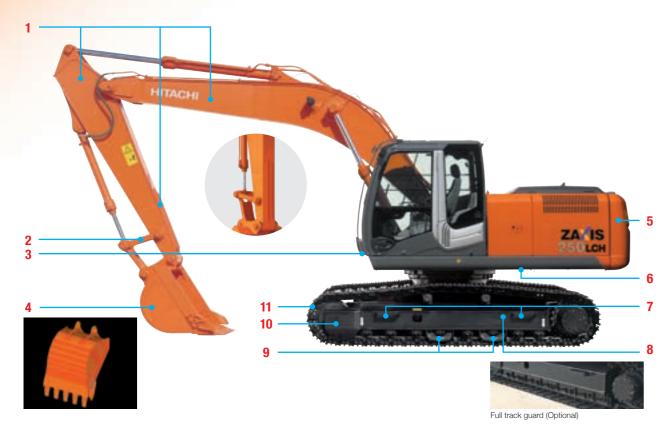
Base Machine for Doing a Wide Range of Jobs.

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

ZAXIS250H / ZAXIS250LCH



- 1 Reinforced thick steel front section. (H-boom / H-arm)
 Thicker steel arm end.
 Damage prevention plate and square bars.
- 2 Reinforced link B.
- 3 Front glass lower guard.
- 4 H-reinforced bucket.
 Thicker steel.
 Additional lateral plate.
 Additional reinforcement plates on cutting edge section.
- 5 6 100 kg counterweight.

- 6 6.0 mm thickness undercover.
- **7** Reinforced side step. (bolt mounted)
- 8 Reinforced lower flange. (18% increase)
- **9** Reinforced track guard. (2 units each side)
- 10 Reinforced idler bracket.
- **11** 600 mm reinforced triple grouser shoe.

Demolition Version K-Series

ZAXIS250K / ZAXIS250LCK



- 1 Attachment basic piping.
- 2 Damage prevention plate.
- 3 Reinforced link B for
- 4 K-reinforced bucket.



- 5 Twin wiper.
- 6 Front glass lower guard.
- 7 Reinforced side step. (bolt munted)
- 8 Reinforced idler bracket.

- **9** 600 mm reinforced triple grouser shoe.
- 10 K-cab. (CRES II cab with overhead window & guard)



- 11 High-performance full-flow filter. (with restriction indicator)
- 12 6 500 kg counterweight.
- 13 Front screen of fuel cooler and air condencer.
- 14 6.0 mm thickness undercover.

- 15 Reinforced lower flange. (18 % increase)
- 16 Track undercover

OPTION

- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed
- Front glass upper guard
- Small radius swing bracket
- 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-4HK1X
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	4
Rated power	
ISO 9249, net	132 kW (177 HP) at 2 000 min-1 (rpm)
ECC 80/1269, net	132 kW (177 HP) at 2 000 min-1 (rpm)
SAE J1349, net	132 kW (177 HP) at 2 000 min-1 (rpm)
Maximum torque	673 Nm (69 kgf m) at 1 500 min-1 (rpm)
Piston displacement	5.193 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

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

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 x 224 L/min
Pilot pump	1 gear pump
Maximum oil flow	34 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	32.4 MPa (300 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)

Hydraulic Cylinders

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	125 mm	90 mm
Arm	1	140 mm	100 mm
Bucket	1	130 mm	90 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.

	0
Implement levers	2
Travel levers with	
pedals	2

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.

Swing speed 13.5 min-1 (rpm)

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. 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	8: ZX240-3 / ZX250H-3 / ZX250K-3 9: ZX240LC-3 / ZX250LCH-3 / ZX250LCK-3
Track shoes	47: ZX240-3 / ZX250H-3 / ZX250K-3 51: ZX240LC-3 / ZX250LCH-3 / ZX250LCK-3
Track guard	1: ZX240-3 / ZX240LC-3 / ZX250K-3 / ZX250LCK-3 2: 7X250H-3 / 7X250LCH-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.

Maximum traction force.... 222 kN (22 650 kgf)

Gradeability 70 % (35 degree) continuous

WEIGHTS AND GROUND PRESSURE

ZX240-3:

Equipped with 6.00 m boom, 2.96 m arm and 1.00 m³ bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
	600 mm	23 400 kg	51 kPa (0.52 kgf/cm²)
Triple	700 mm	23 800 kg	44 kPa (0.45 kgf/cm²)
grouser	800 mm	24 000 kg	39 kPa (0.40 kgf/cm²)
	900 mm	24 500 kg	35 kPa (0.36 kgf/cm²)
Flat	600 mm	24 200 kg	53 kPa (0.54 kgf/cm²)
Triangular	760 mm	24 400 kg	41 kPa (0.42 kgf/cm²)

ZX240LC-3:

Equipped with 6.00 m boom, 2.96 m arm and 1.00 $\rm m^3$ bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
	600 mm	23 900 kg	47 kPa (0.48 kgf/cm²)
Triple	700 mm	24 300 kg	41 kPa (0.42 kgf/cm²)
grouser	800 mm	24 600 kg	36 kPa (0.37 kgf/cm²)
	900 mm	25 200 kg	33 kPa (0.34 kgf/cm²)
Flat	600 mm	24 800 kg	49 kPa (0.50 kgf/cm²)
Triangular	760 mm	25 000 kg	39 kPa (0.40 kgf/cm²)

ZX250H-3:

Equipped with 6.00 m H-boom, 2.96 m H-arm and 1.00 m³ H-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	24 700 kg	54 kPa (0.55 kgf/cm²)

ZX250LCH-3:

Equipped with 6.00 m H-boom, 2.96 m H-arm and 1.00 m³ H-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	25 300 kg	50 kPa (0.51 kgf/cm²)

ZX250K-3:

Equipped with 6.00 m K-boom, 2.96 m K-arm and 1.00 $\rm m^3$ K-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	25 400 kg	56 kPa (0.57 kgf/cm²)

ZX250LCK-3:

Equipped with 6.00 m K-boom, 2.96 m K-arm and 1.00 m3 K-bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Reinforced Triple grouser	600 mm	26 000 kg	52 kPa (0.53 kgf/cm²)

Weight of the basic machines [including 5 400 kg, 6 100 kg H-type, or 6 500 kg K-type counterweight and triple grouser shoes, excluding frontend attachment, fuel, hydraulic oil, engine oil and coolant etc.] are:

ZX240-3	17 800 kg with 600 mm shoes	
ZX240LC-3	18 400 kg with 600 mm shoes	
ZX250H-3	18 900 kg with 600 mm reinforced shoes	
ZX250LCH-3	19 500 kg with 600 mm reinforced shoes	
ZX250K-3	19 500 kg with 600 mm reinforced shoes	
ZX250LCK-3	20 100 kg with 600 mm reinforced shoes	

SERVICE REFILL CAPACITIES

Fuel tank	500.0 L
Engine coolant	26.0 L
Engine oil	23.0 L
Swing device	9.10 L
Travel device (each side)	7.80 L
Hydraulic system	280.0 L
Hydraulic oil tank	243.01

SPECIFICATIONS

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 6.00 m boom, and 2.50 m, 2.96 m, and 3.61 m arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

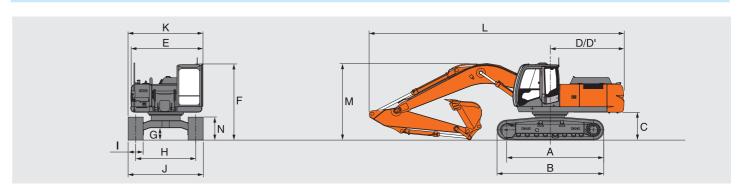
Buckets

						Recommendation												
Capacit	ty	Wi	dth	No. of teeth	Weight		ZX240-3	1	z	X240LC	-3	ZX250H-3 ZX250LCH-3	ZX250K-3 ZX250LCK-3					
SAE, PCSA heaped	CECE heaped	Without side cutters	With side cutters			2.50 m arm	2.96 m arm	3.61m arm	2.50 m arm	2.96 m arm	3.61m arm	2.96 m H-arm	2.96 m K-arm					
0.80 m ³	0.70 m ³	950 mm	1 080 mm	5	760 kg	0	0	0	0	0	0	_	0					
1.00 m ³	0.90 m ³	1 130 mm	1 260 mm	5	850 kg	0	0	0	0	0	0	_	0					
1.10 m ³	1.00 m ³	1 220 mm	1 350 mm	5	900 kg	0	0		0	0	0	_	0					
1.25 m ³	1.10 m ³	1 360 mm	1 490 mm	5	945 kg	0	0	_	0	0		_	0					
1.40 m ³ 1.20 m		1 500 mm	1 630 mm	5	1 020 kg		_	_		_	_	_	_					
*1 1.00 m ³	0.90 m ³	1 130 mm	1 260 mm	5	970 kg	0	0	0	0	0	0	_	0					
*1 1.10 m ³	1.00 m ³	1 220 mm	1 350 mm	5	1030 kg	0	0		0	0	0	_	0					
*1, 1.00 m ³	0.90 m ³	1 140 mm	1 270 mm	5	975 kg	0	0	0	0	0	0	0	_					
*2, 3 1.00 m ³	0.90 m ³	1 140 mm	1 270 mm	5	955 kg	0	0	0	0	0	0	0	_					
*4 0.92 m ³	0.80 m ³	1 130 mm	1 180 mm	5	990 kg	•	•	0	•	•	0	•	_					
*5 0.80 m³ 0.70 m³		1 000 mm	_	3	1 220 kg	•	•	_	•	•	_	•	_					
One-point ripper				1	680 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					
Shell-push type clamshe	ell bucket: 0.60 m	3 (CECE heaped),	Width 870 mm	7	960kg	0	0	_	0	0	_	0	0					

^{*1} Reinforced bucket

Not applicable

DIMENSIONS

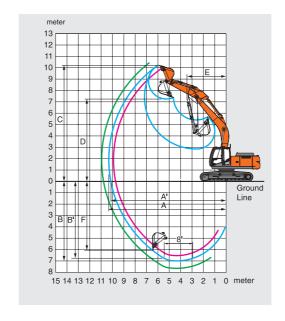


Unit: mm

	ZX240-3	ZX240LC-3	ZX250H-3	ZX250LCH-3	ZX250K-3	ZX250LCK-3
A Distance between tumblers	3 460	3 845	3 460	3 845	3 460	3 845
B Undercarriage length	4 260	4 640	4 260	4 640	4 260	4 640
* C Counterweight clearance	1 090	1 090	1 090	1 090	1 090	1 090
D Rear-end swing radius	2 940	2 940	2 940	2 940	2 940	2 940
D' Rear-end length	2 940	2 940	2 940	2 940	2 940	2 940
E Overall width of upperstructure	2 890	2 890	2 890	2 890	2 890	2 890
F Overall height of cab	3 010	3 010	3 010	3 010	3 140	3 140
* G Min. ground clearance	460	460	460	460	460	460
H Track gauge	2 390	2 590	2 390	2 590	2 390	2 590
I Track shoe width	G 600	G 600	G 600	G 600	G 600	G 600
J Undercarriage width	2 990	3 190	2 990	3 190	2 990	3 190
K Overall width	2 990	3 190	2 990	3 190	2 990	3 190
L Overall length						
With 2.50 m arm	10 270	10 270	_	_	-	_
With 2.96 m arm	10 150	10 150	10 150	10 150	10 150	10 150
With 3.61 m arm	10 200	10 200	_	_	_	_
M Overall height of boom						
With 2.50 m arm	3 370	3 370	_	_	_	_
With 2.96 m arm	3 070	3 070	3 070	3 070	3 070	3 070
With 3.61 m arm	3 320	3 320	_	_	_	_
N Track height with triple grouser shoes	920	920	920	920	920	920

^{*} Excluding track shoe lug

WORKING RANGES



					Unit: mm						
	ZX2	240-3 / ZX240l	ZX250H-3 / ZX250LCH-3	ZX250K-3 / ZX250LCK-3							
Arm length	2.50 m	2.96 m	3.61 m		6.00 m K-boom 2.96 m K-arm						
A Max. digging reach	9 880	10 290	10 910	10	290						
A' Max. digging reach (on ground)	9 690	10 110	10 750	10	110						
B Max. digging depth	6 500	6 960	7 610	6.9	960						
B' Max. digging depth (8' level)	5 940	6 750	7 440	6.7	750						
C Max. cutting height	9 950	10 160	10 560	10	160						
D Max. dumping height	6 990	7 200	7 580	7 2	200						
E Min. swing radius	3 480	3 440	3 430	3 4	140						
F Max. vertical wall	5 580	6 030	60	030							
Bucket digging force** ISO		180 kN (18 400 kgf)									
Bucket digging force** SAE : PCSA		1	56 kN (15 900	kgf)							
Arm crowd force** ISO	150 kN (15 300 kgf)	125 kN (12 800 kgf)	109 kN (11 100 kgf)	125 kN (1	2 800 kgf)						
Arm crowd force** SAE : PCSA	147 kN (15 000 kgf)	120 kN (12 200 kgf)	104 kN (10 600 kgf)	120 kN (1	2 200 kgf)						

Excluding track shoe lug * At power boost

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^{*2} H-bucket

^{*3} Level-pin-type bucket

^{*4} Rock bucket

^{*5} Ripper 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

G: Triple grouser shoe

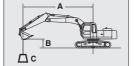
LIFTING CAPACITIES

- 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.



Rating over-side or 360 degrees

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

Rating over-front Unit: 1 000 kg

	Load							Load	radius							At max. reach		
Conditions	Load	3.0) m	4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		9.0 m		At max. reach		
	height		ů		ů		ů		ů		ů		ů		ů		ů	meter
Boom 6.00 m	6.0 m							* 4.65	* 4.65	4.27	* 4.68					2.88	* 3.64	8.61
Arm 2.50 m Bucket	4.0 m					* 6.56	* 6.56	5.30	* 5.71	4.07	* 5.22	3.18	4.73			2.36	3.60	9.30
SAE, PCSA: 1.00 m ³	2.0 m					6.26	* 9.29	4.78	7.24	3.75	5.65	2.99	4.53			2.19	3.39	9.45
Counterweight 5 400 kg	0 (Ground)					5.84	9.19	4.44	6.86	3.51	5.38	2.83	4.36			2.28	3.54	9.10
Shoe 600 mm	-2.0 m			* 8.31	* 8.31	5.81	9.16	4.36	6.76	3.43	5.30	2.79	4.31			2.75	4.23	8.17
	-4.0 m	* 9.96	* 9.96	8.68	* 10.49	5.99	* 8.83	4.49	6.91							* 3.87	* 3.87	6.35
Boom 6.00 m	6.0 m									* 4.19	* 4.19					* 2.51	* 2.51	9.07
Arm 2.96 m Bucket	4.0 m					* 5.85	* 5.85	* 5.22	* 5.22	4.12	* 4.82	3.21	* 4.59			* 2.58	* 2.58	9.71
SAE, PCSA: 1.00 m ³	2.0 m					6.41	* 8.64	4.85	* 6.90	3.78	5.69	3.00	4.54	2.40	3.69	* 2.82	* 2.82	9.86
Counterweight 5 400 kg	0 (Ground)			* 5.87	* 5.87	5.86	9.23	4.45	6.88	3.50	5.38	2.81	4.34	2.28	3.57	3.15	3.15	9.52
Shoe 600 mm	-2.0 m	* 7.70	* 7.70	8.32	* 10.72	5.75	9.10	4.31	6.72	3.38	5.25	2.73	4.26			3.69	3.69	8.65
	-4.0 m	* 11.11	* 11.11	8.53	* 11.29	5.88	9.24	4.39	6.81	3.46	5.33					* 4.82	* 4.82	6.99
Boom 6.00 m	6.0 m									* 3.56	* 3.56	* 3.27	* 3.27			* 1.93	* 1.93	9.75
Arm 3.61 m Bucket	4.0 m							* 4.24	* 4.24	4.22	* 4.26	3.28	* 4.05	2.57	* 3.38	1.89	* 1.97	10.35
SAE, PCSA: 1.00 m ³	2.0 m			* 10.42	9.35	* 7.68	6.65	* 6.26	4.98	3.85	* 5.42	3.04	4.59	2.42	3.72	1.75	* 2.15	10.48
Counterweight 5 400 kg	0 (Ground)			* 7.84	* 7.84	9.32	5.94	6.94	4.50	3.53	5.41	2.81	4.35	2.27	3.56	1.79	* 2.49	10.17
Shoe 600 mm	-2.0 m	* 7.22	* 7.22	* 12.51	8.21	9.05	5.71	6.69	4.28	3.35	5.22	2.69	4.21	2.20	3.48	2.08	* 3.13	9.37
	-4.0 m	* 12.15	* 12.15	* 12.18	8.35	9.11	5.75	6.70	4.29	3.35	5.23	2.72	4.24			2.87	4.44	7.90

ZX240LC-3

								Load	radius									
Conditions	Load	3.0) m	4.0	0 m 5.0 m) m	6.0	m	7.0	m	8.0) m	9.0) m	- At max. reach		
	height		ů		ů		a		ů		ů		ů		ů		ů	meter
Boom 6.00 m	6.0 m							* 4.65	* 4.65	* 4.68	* 4.68					3.25	* 3.64	8.61
Arm 2.50 m Bucket	4.0 m					* 6.56	* 6.56	* 5.71	* 5.71	4.56	* 5.22	3.58	* 4.95			2.69	* 3.73	9.30
SAE, PCSA: 1.00 m ³	2.0 m					7.09	* 9.29	5.40	* 7.32	4.24	* 6.21	3.39	5.37			2.51	4.04	9.45
Counterweight 5 400 kg	0 (Ground)					6.66	* 10.58	5.05	8.22	3.99	6.42	3.23	5.19			2.61	4.23	9.10
Shoe 600 mm	-2.0 m			* 8.31	* 8.31	6.63	* 10.33	4.96	8.12	3.91	6.33	3.19	5.14			3.14	5.04	8.17
	-4.0 m	* 9.96	* 9.96	9.92	* 10.49	6.81	* 8.83	5.10	* 7.34							* 3.87	* 3.87	6.35
Boom 6.00 m	6.0 m									* 4.19	* 4.19					* 2.51	* 2.51	9.07
Arm 2.96 m Bucket	4.0 m					* 5.85	* 5.85	* 5.22	* 5.22	4.61	* 4.82	3.62	* 4.59			2.47	* 2.58	9.71
SAE, PCSA: 1.00 m ³	2.0 m					7.24	* 8.64	5.47	* 6.90	4.27	* 5.89	3.40	* 5.26	2.74	4.39	2.30	* 2.82	9.86
Counterweight 5 400 ka	0 (Ground)			* 5.87	* 5.87	6.68	* 10.35	5.06	* 8.20	3.99	6.42	3.21	5.18	2.63	4.27	2.38	* 3.28	9.52
Shoe 600 mm	-2.0 m	* 7.70	* 7.70	9.54	* 10.72	6.57	* 10.47	4.92	8.08	3.87	6.29	3.13	5.09			2.80	* 4.18	8.65
	-4.0 m	* 11.11	* 11.11	9.77	* 11.29	6.70	* 9.32	5.00	* 7.72	3.94	6.36					4.10	* 4.82	6.99
Boom 6.00 m	6.0 m									* 3.56	* 3.56	* 3.27	* 3.27			* 1.93	* 1.93	9.75
Arm 3.61 m Bucket	4.0 m							* 4.24	* 4.24	* 4.26	* 4.26	3.69	* 4.05	2.91	* 3.38	* 1.97	* 1.97	10.35
SAE, PCSA: 1.00 m ³	2.0 m			* 10.42	* 10.42	7.49	* 7.68	5.60	* 6.26	4.35	* 5.42	3.45	* 4.87	2.77	* 4.37	2.03	* 2.15	10.48
Counterweight 5 400 kg	0 (Ground)			* 7.84	* 7.84	6.77	* 9.88	5.12	* 7.81	4.01	6.46	3.22	5.19	2.62	4.26	2.08	* 2.49	10.17
Shoe 600 mm	-2.0 m	* 7.22	* 7.22	9.43	* 12.51	6.52	* 10.51	4.89	8.05	3.83	6.26	3.09	5.05	2.54	4.18	2.40	* 3.13	9.37
	-4.0 m	* 12.15	* 12.15	9.58	* 12.18	6.57	* 9.83	4.90	8.06	3.84	6.26	3.12	5.08			3.28	* 4.55	7.90

Rating over-side or 360 degrees

Rating over-front

Unit: 1 000 kg

	Lood		Load radius															oh
Conditions	Load point height	3.0) m	4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		9.0 m		At max. reach		
			ů		ů		ů	©	ů	©	ů		ů	(ů		ů	meter
H-Boom 6.00 m	6.0 m									* 4.03	* 4.03					* 2.36	* 2.36	9.07
H-Arm 2.96 m H-Bucket	4.0 m					* 5.69	* 5.69	* 5.05	* 5.05	4.45	* 4.66	3.47	* 4.42			2.32	* 2.43	9.71
SAE, PCSA: 1.00 m ³	2.0 m					6.99	* 8.47	5.28	* 6.73	4.11	* 5.72	3.25	4.89	2.60	3.97	2.16	* 2.67	9.86
Counterweight 6 100 kg	0 (Ground)			* 5.66	* 5.66	6.43	10.01	4.87	7.45	3.82	5.82	3.06	4.69	2.48	3.85	2.24	* 3.14	9.52
Shoe 600 mm	-2.0 m	* 7.49	* 7.49	9.15	* 10.71	6.32	9.89	4.73	7.29	3.70	5.69	2.98	4.60			2.66	* 4.04	8.65
	-4.0 m	* 11.10	* 11.10	9.37	* 11.11	6.45	* 9.14	4.81	7.38	3.78	5.77					3.93	* 4.71	6.99

ZX250LCH-3

Conditions	Load point height	Load radius													At many wash			
		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		9.0 m		At max. reach		
		(ů		ů		ů		ů	©	ů	©	ů		ů	(ů	meter
H-Boom 6.00 m	6.0 m									* 4.03	* 4.03					* 2.36	* 2.36	9.07
H-Arm 2.96 m H-Bucket	4.0 m					* 5.69	* 5.69	* 5.05	* 5.05	* 4.66	* 4.66	3.89	* 4.42			* 2.43	* 2.43	9.71
SAE, PCSA: 1.00 m ³	2.0 m					7.86	* 8.47	5.92	* 6.73	4.62	* 5.72	3.67	* 5.08	2.96	* 4.30	2.47	* 2.67	9.86
	0 (Ground)			* 5.66	* 5.66	7.29	* 10.17	5.51	* 8.02	4.33	* 6.63	3.48	5.56	2.84	4.58	2.57	* 3.14	9.52
	-2.0 m	* 7.49	* 7.49	10.43	* 10.71	7.17	* 10.28	5.36	* 8.35	4.20	6.77	3.40	5.47			3.03	* 4.04	8.65
	-4.0 m	* 11.10	* 11.10	10.66	* 11.11	7.31	* 9.14	5.45	* 7.54	4.28	* 6.18					4.44	* 4.71	6.99

ZX250K-3

Conditions	Load point height	Load radius													A +		-1-	
		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		9.0 m		At max. reach		
			ů		ů		ů	©	ů		ů	©	ů		ů		ů	meter
K-Boom 6.00 m K-Arm 2.96 m K-Bucket SAE, PCSA: 1.00 m³ Counterweight 6 500 kg Shoe 600 mm	6.0 m									* 4.01	* 4.01					* 2.36	* 2.36	9.07
	4.0 m					* 5.67	* 5.67	* 5.02	* 5.02	* 4.63	* 4.63	3.64	* 4.39			* 2.43	* 2.43	9.71
	2.0 m					7.30	* 8.42	5.53	* 6.69	4.31	* 5.68	3.42	* 5.05	2.75	4.16	2.29	* 2.67	9.86
	0 (Ground)			* 5.63	* 5.63	6.73	* 10.11	5.11	7.77	4.02	6.08	3.23	4.90	2.63	4.03	2.37	* 3.14	9.52
	-2.0 m	* 7.57	* 7.57	9.55	* 10.70	6.61	* 10.22	4.96	7.60	3.89	5.94	3.14	4.81			2.81	* 4.04	8.65
	-4.0 m	* 11.11	* 11.11	9.78	* 11.03	6.75	* 9.07	5.04	* 7.48	3.97	6.02					4.13	* 4.71	6.99

ZX250LCK-3

Conditions	Load point height	Load radius													At many wasah			
		3.0 m		4.0 m		5.0 m		6.0 m		7.0 m		8.0 m		9.0 m		At max. reach		
			ů		ů		ů	©	ů	©	ů	©	ů		ů		ů	meter
K-Boom 6.00 m	6.0 m									* 4.01	* 4.01					* 2.36	* 2.36	9.07
K-Arm 2.96 m K-Bucket	4.0 m					* 5.67	* 5.67	* 5.02	* 5.02	* 4.63	* 4.63	4.08	* 4.39			* 2.43	* 2.43	9.71
SAE, PCSA: 1.00 m ³ Counterweight	2.0 m					8.20	* 8.42	6.19	* 6.69	4.83	* 5.68	3.85	* 5.05	3.11	* 4.30	2.61	* 2.67	9.86
	0 (Ground)			* 5.63	* 5.63	7.61	* 10.11	5.76	* 7.97	4.53	* 6.59	3.65	* 5.66	2.99	* 4.75	2.71	* 3.14	9.52
	-2.0 m	* 7.57	* 7.57	* 10.70	* 10.70	7.49	* 10.22	5.61	* 8.29	4.41	* 6.89	3.57	5.70			3.19	* 4.04	8.65
	-4.0 m	* 11.11	* 11.11	* 11.03	* 11.03	7.62	* 9.07	5.69	* 7.48	4.48	* 6.13					4.65	* 4.71	6.99

STANDARD EQUIPMENT

- H/P mode control

- F mode control - 50 A alternator

ENGINE

- Dry-type air filter with evacuator valve (with air filter restriction switch
- Cartridge-type engine oil filter
- Fuel double filters

for monitor)

- 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
- Upper front window can be opened
- 4 fluid-filled elastic mounts - Intermittent windshield wipers
- Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock - Auto control air conditioner
- 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, 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
- 5 400 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

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

- 1 track guard (each side) and hydraulic track adjuster
- Bolt-on sprocket
- Upper and lower rollers - Reinforced track links with pin seals
- 4 tie down hooks
- 600 mm triple grouser shoes

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
- 2.96 m arm
- 1.00 m³ (SAE, PCSA heaped) bucket

MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails - Travel direction mark on track
- frame - Onboard information controller
- Theft deterrent system

OPTIONAL EQUIPMENT

- Suspension seat

- Swing motion alarm device with
- Travel motion alarm device
- Rear view camera
- Additional pump
- Transparent roof

- Pre-cleaner
- Tropical cover

- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Rear light

- Front glass lower guard
- Front glass upper 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.

- 600 mm reinforced triple grouser shoes
- Full track guard
- Additional light (on the top of the cab)
- Additional work light (Boom right side)
- 12 V power source

- Front screen of fuel cooler and air condenser
- Louver cover

Designed to increase ventilation



- Tropical cover

EC,STAGE II, not permitting the use of the CE mark



ZX250H-3 / ZX250LCH-3 (Heavy-duty version)

- square bars
- 1.00 m³ (SAE, PCSA heaped)
- H-reinforced bucket
- Front glass lower guard
- 6 100 kg counterweight - 600 mm reinforced triple grouser
- shoe - Reinforced track guide (2 units
- Reinforced lower flange
- Reinforced idler bracket

ZX250K-3 / ZX250LCK-3

- Reinforced link B for demolition
- Attachment basic piping
- 6.0 mm thickness undercover
- Reinforced lower flange
- Reinforced side step (bolt mounted)
- Reinforced side step (bolt mounted) Reinforced side frame - 600 mm reinforced triple grouser

 - 6 500 kg counterweight - High-performance full-flow filter
 - condenser

- 6.00 m H-boom and 2.96 m H-arm - K-cab (CRES II cab with overhead

- Damage prevention plate and
- Reinforced link B
- 6.0 mm thickness undercover
- each side)

(Demolition version)

- window and guard)
- 6.00 m K-boom and 2.96 m K-arm - 1.00 m³ (SAE, PCSA heaped)
- K-reinforced bucket
- Front glass lower guard
- Twin wiper
- Damage prevention plate
- Reinforced idler bracket
- Track undercover
- (with restriction indicator) - Front screen of fuel cooler and air

- Hose rupture valves
- Electric fuel refilling pump with auto Attachment basic piping
- lamps

- - Reinforced track guard (2 units each side)

 - Assist piping
 - Pilot accumulator
 - Rain guard



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 2000/14/





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

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KS-EN001Q 08.02 (KA/KA,GT3)