

ZAXIS-5G series

HITACHI

Reliable solutions

# ZAXIS240



## HYDRAULIC EXCAVATOR

Model Code : ZX240-5G / ZX240LC-5G / ZX250H-5G / ZX250LCH-5G

ZX250K-5G / ZX250LCK-5G

Engine Rated Power : 132 kW (177 HP)

Operating Weight : ZX240-5G : 23 400 kg / ZX240LC-5G : 24 000 kg

ZX250H-5G : 24 800 kg / ZX250LCH-5G : 25 300 kg

ZX250K-5G : 25 200 kg / ZX250LCK-5G : 25 800 kg

Backhoe Bucket : ISO Heaped : 0.80 - 1.40 m<sup>3</sup>

# ZAXIS Empower your Vision.

A ZAXIS hallmark – industry-leading hydraulic technologies, and performance no other can beat. New ZAXIS provides reliable solutions: impressive fuel economy, swift front movements, and easy operation. You'll also find Hitachi technological prowess and expertise, such as the optimized hydraulic system and engine.

New ZAXIS features the key benefits of high quality, low fuel consumption, and high durability, all of which serve to ensure low running costs.

New ZAXIS, which is empowered by comprehensive evolution, will realize customers' visions and dreams, and pioneer your colorful future.



## More Production with Less Fuel

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- 8% reduction in fuel consumption
- More fuel reduction in the ECO mode
- Swift front movements with HIOS III hydraulics
- Powerful lifting operation
- Boosted swing torque
- Enhanced power boost



## No Compromise on Operator Comfort

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- Comfortable operating environment
- Comfort-designed operator seat
- Robust cab
- New, easy-to-use multifunction monitor



## Reliable Solutions, with Various Options

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- Varied jobs, varied options
- Recommended options



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## Pursuits of Performance and Durability

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- Prestige R&D and quality control
- Durable, reliable engine
- Rock-solid, durable front attachment
- Strengthened undercarriage
- Proven upperstructure



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- Dust-proof indoor net
- Grouped remote inspection points
- Attractive, robust body
- Low life cycle costs



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- Remote fleet management with Global e-Service
- Parts and service

Note: The photos in this brochure show excavators with optional equipments such as rear view camera.

# More Production with Less Fuel

## 8% Reduction in Fuel Consumption

New ZAXIS is a fuel-thrifty excavator that can reduce fuel consumption by 8%\*, compared to the conventional ZX240-3/ZX240-3F family, thanks to the HIOS III hydraulic system and engine control system, thereby reducing CO<sub>2</sub> emissions.

\*6%, compared to the ZX240/ZX240-3G.

## More Fuel Reduction in the ECO mode

The ECO mode, a new economical mode, can further cut fuel consumption by 10% compared to the PWR mode, without sacrificing digging speed by optimal matching of operations.



## Swift Front Movements with HIOS\* III Hydraulics

Operating speed increases with less fuel consumption thanks to the HIOS III hydraulic system, developed by industry-leading hydraulic technologies and a wealth of experience. Actuators work quickly by boom weight, without needing a regenerative circuit and pressure oil.

\*Human & Intelligent Operation System

### Rapid Arm Roll-in

Arm roll-in speed increases by combined flow from arm and boom cylinders through regenerative valves for productive excavation.

### Fast Arm Speed During Boom Lowering

Arm speed increases by boom weight during boom lowering, without needing pressure oil from a pump. That is, arm circuit flow is increased for higher arm speed, allowing for quick loading of a dump truck and positioning of the front.



## Powerful Lifting Operation

The Auto Power Lift mode, which automatically surge lifting force by 10% when needed, allows for powerful lifting of buried concrete pipes or sheathing sheets.

## Boosted Swing Torque

Allows for powerful wall cutting with the bucket, and smooth swing operation on slope.

## Enhanced Power Boost

The Power Boost mode allows the operator to surge 10% more digging force for powerful excavation by pressing its button on the control lever.



# Pursuits of Performance and Durability

## Prestige R&D and Quality Control

Hitachi has earned praise for technological prowess and product performance around the world. R&D Division has a track record – including excellent design, stress analysis expertise using CAE system, and abundant production data base. What's more, a large-scale durability test field ( $427 \text{ hm}^2$ ) allows for a series of stringent testing of new machines. Production Division strives to automatize production processes, including robotic welding, machining, painting, assembling and transferring.



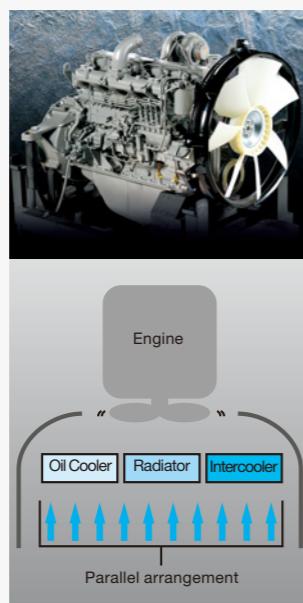
## Durable, Reliable Engine

This engine has a track record showing impressive durability at countless tough job sites around the world.

The engine — associated with a rugged design, a direct fuel injection system and an elaborate governor — goes green, and complies with EU Stage II and US EPA Tier 2 emissions regulations.

The cooling system well keeps the engine cool. The engine cover has a wider air suction area, and radiators are arranged in parallel for efficient cooling. This parallel arrangement also facilitates their cleaning.

The ample-capacity intercooler and turbocharger help yield a whopping 132 kW (177 HP) output for higher production in shorter job schedule.



## Rock-Solid, Durable Front Attachment

The boom top and foot are reinforced with thickened high-tensile steel brackets, which incorporate steel bushings to enhance durability. Arm cylinder and boom cylinders (rod extend ends) cushion shocks at stroke ends to cut noise and extend service life.

Joint pins at the front attachment are tightly fit to reduce jolt and sound. The arm-bucket joint is protected by WC thermal spraying on its contact surfaces to reduce wear and jolt. New-type HN bushings, utilized on joint pins, retain grease inside for longer greasing intervals. A reinforced resin thrust plate, mounted on the bucket pin, helps reduce wearing noise.

## Strengthened Undercarriage

The X-beam frame is made monolithically with fewer welds for higher rigidity and durability.

Track adjusters absorb impacts to crawlers. Front idlers and adjuster cylinders are integrated to increase durability. Idler brackets and travel motor brackets are both thickened for added durability.

## Proven Upperstructure

The upperstructure frame is reinforced with the proven D-section skirt to increase rigidity against damage by obstacles. The door catch is improved to shut the door tightly, reducing door rattling.



# No Compromise on Operator Comfort

## Comfortable Operating Environment

You'll feel comfortable and confident, with plenty of leg space and excellent visibility when operating the cab. The new compact console gives more leg space. The new door pillar is shifted rearward by 70 mm to widen an entry space for easy access. A new LED room light, interlocked with the door, turns on when the door opens. The front window is easily removed and stored overhead using slide rails. The overhead window is openable for ventilation. Ample air conditioner vents are located strategically for uniform air circulation inside the cab. The control panel and control levers are arranged within easy reach of the operator. AM/FM radio and AUX port (optional) for a mobile music player are available for a long work day with less fatigue. All these designs focus on operator comfort.

## Comfort-Designed Operator Seat

The luxury cloth seat is fitted with a headrest and arm rests for operator comfort. The seat can be adjusted in multiple ways, sliding and reclining, to suit operator's size and preferences. The seat can slide rearward by 40 mm more for added leg space. An air suspension with a heat pad is optional.

## Robust Cab

The robust cab, meeting the OPG (Top Guard Level 1), protects the operator from falling objects. The pilot control shut-off lever is provided with a neutral engine start system that permits engine starting only when the pilot control shut-off lever is in Lock position.



## New, Easy-to-Use Multifunction Monitor

The new multi-language, multifunction monitoring system comprises a 7-inch high-resolution color monitor and a multifunction controller. The monitor allows the operator to check varying operating variables: hydraulic oil temperature, fuel level, work mode, full-auto air conditioner, AM/FM radio, rear view monitor camera (optional), maintenance support, and attachment flow adjustment. Menu items can be selected and adjusted by a multifunction controller on the control panel. A new rear view monitor camera always displays the view behind the machine.



# Simplified Maintenance



## Dust-Proof Indoor Net

A dust-proof indoor net, provided at the front of radiator, can be easily removed and cleaned with compressed air. At the rear of the radiator, air blowing can be done through a one-touch open cover. The air condenser is openable for easy cleaning at its rear.

## Attractive, Robust Body

Side frame tops of the undercarriage are sloped to let muck slide away. Track adjuster greasing ports are repositioned for easier lubrication, and well protected from muck packing.



The photo shows an excavator with an optional front glass lower guard.

## Grouped Remote Inspection Points

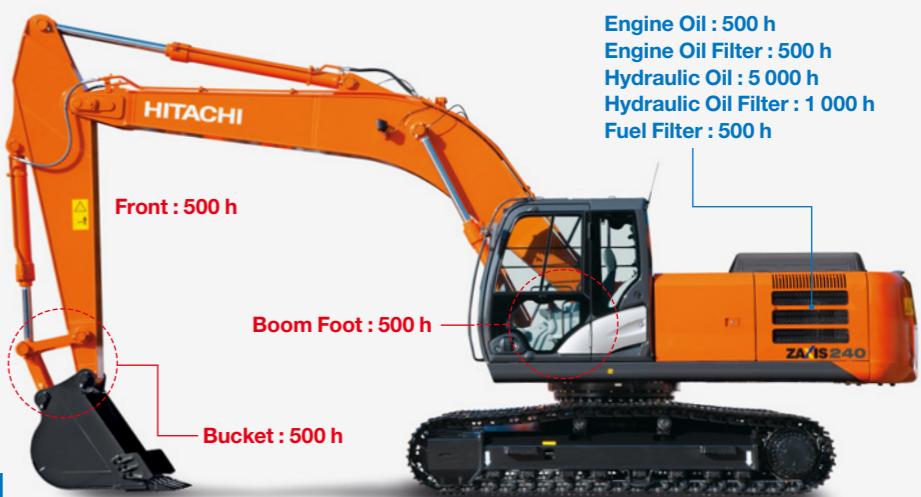
Service points are concentrated inside left and right covers that are readily accessible from ground level for convenient servicing and inspection, including water draining from the fuel tank, replenishment of coolant, and replacement of filters. The fuel tank is anti-corrosion coated on its inside, and has a large cleaning port at the bottom. These wise designs effectively keep fuel clean, and ease servicing. Handrails are provided at convenient locations for easy riding on the upperstructure. Plenty slip-resistant plates are located for safe maintenance.



## Low Life Cycle Costs

Service intervals are long enough to slash maintenance costs.

Lubricant      Consumables



Note: Periodic inspection is required to check oil contamination and likes.

# Reliable Solutions, with Various Options

## Easy-to-Use Attachments

The operator can change over valves, adjust extra circuit flow, and check settings from the multifunctional monitor next to the operator seat. What's more, 11 jobs, including flow rate setting, can easily be selected by their identified names.

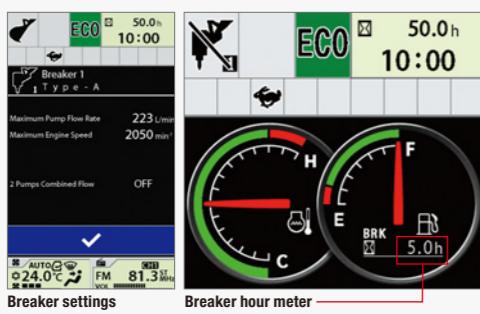
## Easy-to-Operate Breaker

When using a breaker that requires frequent change of hydraulic oil and filters, an extra hour meter on the multifunctional monitor displays operating hours of the breaker, suggesting adequate replacement timing of oil and filters. The Breaker Alarm (optional) displays an alert mark on the monitor screen, and sounds when the breaker works continuously over one minute.

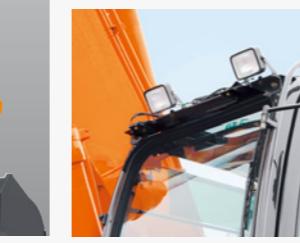
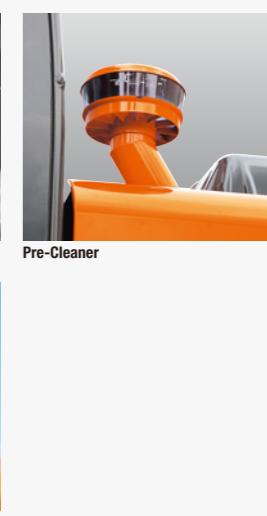
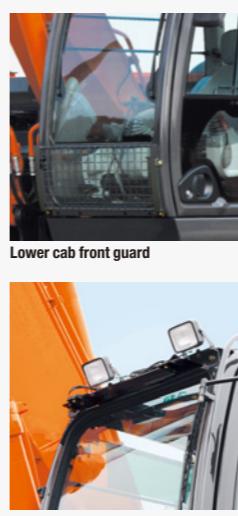
## Varied Jobs, Varied Options

Lower cab front guard is provided for protection against debris during demolition and breaker operation.

High-performance filters and in-line filters are available at tough job sites.



## Recommended Options



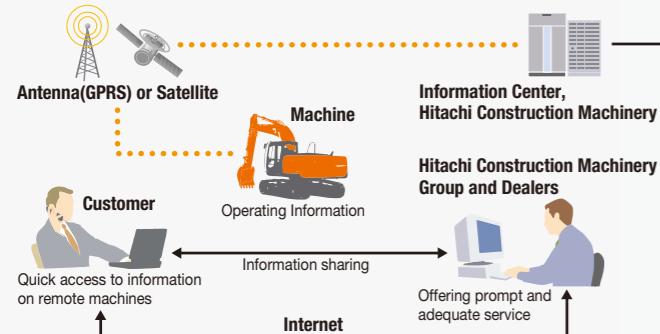
# Hitachi Support Chain

Hitachi Support Chain is a full customer support system offered after buying a Hitachi machine.

## Remote Fleet Management with Global e-Service

### Easy Access to On-Site Machines through the Internet

This on-line fleet management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity of the fleet and reduce downtime. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers around the world. This system is available 24 hours a day, all the year around.



Note: In Some Regions, Global e-Service Is Not Available by Local Regulations.

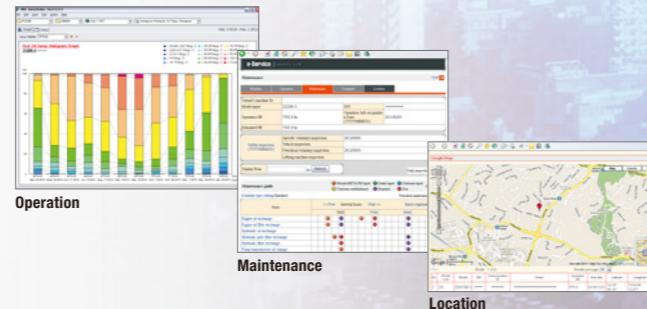
### Main Features of Global e-Service

#### Functions

Global e-Service provides easy access to a machine on site, conveying operating information and log, including daily operating hours, fuel level, temperatures, pressures, and likes.

#### Maintenance

Maintenance data and log are displayed on a easy-to-read monitor screen, suggesting recommended maintenance for efficient fleet management.



## Parts and Service

Hitachi full customer support is available every area on the globe for full customer satisfaction through Hitachi local dealers.

### Parts

Hitachi Global Online Network, a parts supply system, is linked with Japan Parts Center, overseas depots and over 150 dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

#### Genuine Hitachi Parts

Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

#### Ground Engaging Tools (GETs)

Hitachi provides an array of Hitachi Ground Engaging Tools developed and built for a variety of applications.

Using high-quality, well-maintained GETs will help you get customers' trust.

Note: Some dealers do not handle Hitachi GETs.

#### Remanufactured Components

Hitachi components are remanufactured according to the stringent remanufacturing standards at factories around the world. They have high quality equivalent to new ones, and backed up by Hitachi warranty system.

Note: Some dealers do not handle Hitachi Remanufactured Components.

### Service

#### Extended Warranty – HELP

Hitachi Standard Warranty System is available on all new Hitachi machines. In addition, Hitachi offers Hitachi Extended Life Programs (HELPs) to suit customer expectations –

protecting machines under tough operating conditions, avoiding unexpected downtime, and reducing repair costs.

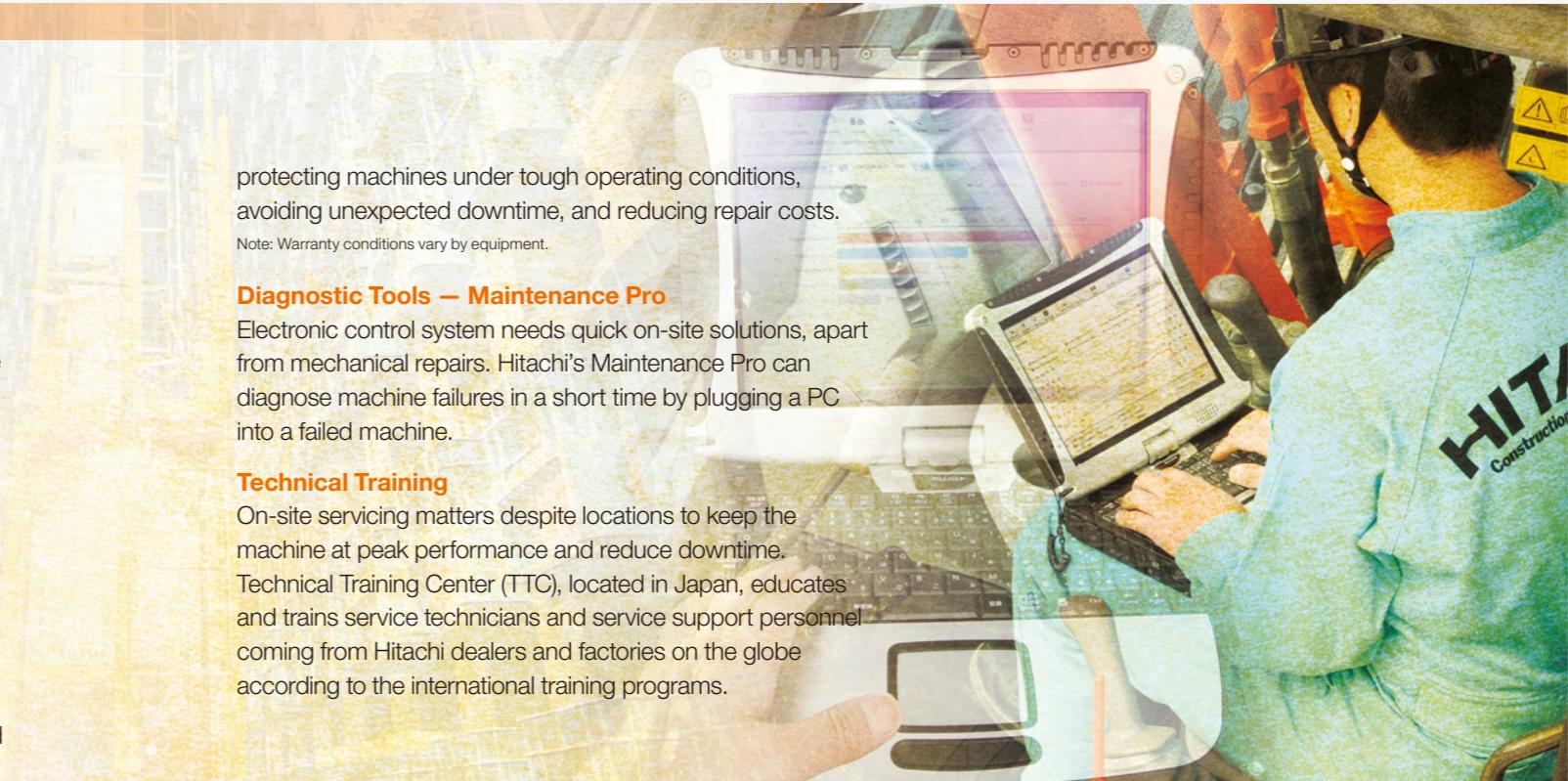
Note: Warranty conditions vary by equipment.

#### Diagnostic Tools – Maintenance Pro

Electronic control system needs quick on-site solutions, apart from mechanical repairs. Hitachi's Maintenance Pro can diagnose machine failures in a short time by plugging a PC into a failed machine.

#### Technical Training

On-site servicing matters despite locations to keep the machine at peak performance and reduce downtime. Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe according to the international training programs.





## Various Versions

The photos above show machine images at work, which include machines other than ZAXIS 240 series.

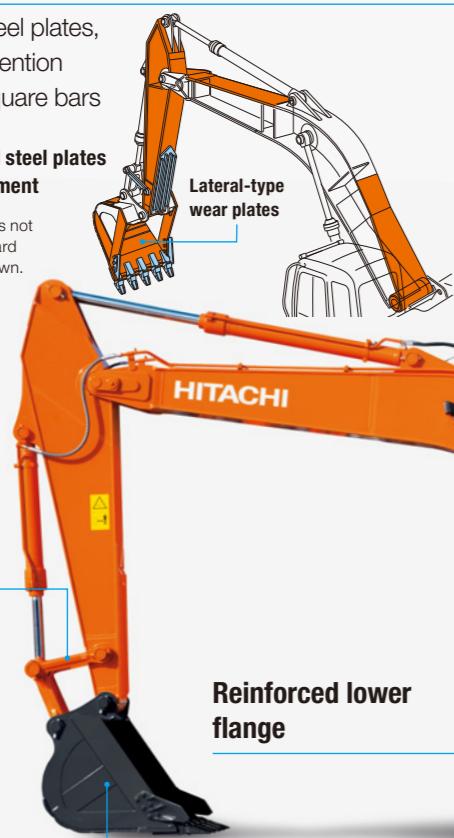
### Heavy-Duty Version: H-Series **ZAXIS 250H**

#### Reinforced Front Attachment (H-Boom / H-Arm)

Thickened steel plates, damage prevention plates and square bars

**Thickened steel plates**  
**Reinforcement**

\*Reinforced portions not available on standard ZAXIS 240 are shown.



**Reinforced link B**

**Reinforced lower flange**

**1.00 m<sup>3</sup> H-bucket**

Thickened steel plates, additional lateral-type wear plates, and additional reinforcement plates at cutting edges

#### Lower cab front guard

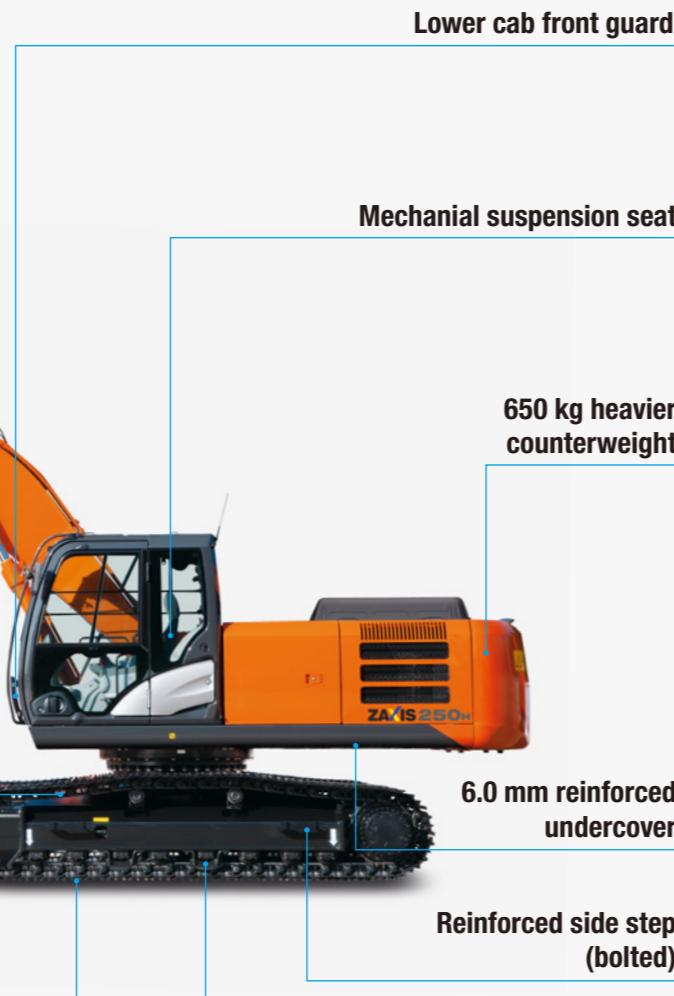
#### Mechanial suspension seat

**650 kg heavier counterweight**

**6.0 mm reinforced undercover**

**Reinforced side step (bolted)**

**Reinforced track guards (2 on each side)**



### Demolition Version: K-Series **ZAXIS 250K**

#### Reinforced Front Attachment (K-Boom / K-Arm)

Thickened steel plates, and damage prevention plates

**Breaker and crusher piping**

**Attachment basic piping**

**Reinforced link B for demolition**

**Reinforced lower flange**

**1.00 m<sup>3</sup> reinforced bucket**



#### Twin wipers

**High-performance full-flow filters with restriction indicators**

**9 mm reinforced track undercover**

**600 mm reinforced triple grouser shoes**

#### K-cab (Cab with overhead window & guard)

#### Lower cab front guard

**1 050 kg heavier counterweight**

**6.0 mm reinforced undercover**

**Reinforced side step (bolted)**

**Reinforced idler bracket**

Notes : Photo shown model equipped with optional accessories for breaker and crusher. For more details, contact your dealer.

# SPECIFICATIONS

## ENGINE

Model .....	Isuzu CC-6BG1T
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharged, intercooled
No. of cylinders .....	6
Rated power	
ISO 9249, net .....	132 kW (177 HP) at 2 150 min <sup>-1</sup> (rpm)
SAE J1349, net .....	132 kW (177 HP) at 2 150 min <sup>-1</sup> (rpm)
Maximum torque .....	637 Nm (65 kgfm) at 1 800 min <sup>-1</sup> (rpm)
Piston displacement .....	6.494 L
Bore and stroke .....	105 mm x 125 mm
Batteries .....	2 x 12 V / 88 Ah

## HYDRAULIC SYSTEM

### Hydraulic Pumps

Main pumps .....	2 variable displacement axial piston pumps
Maximum oil flow ..	2 x 223 L/min
Pilot pump .....	1 gear pump
Maximum oil flow ..	32.0 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 <sup>2</sup> )
Swing circuit .....	32.4 MPa (330 kgf/cm <sup>2</sup> )
Travel circuit .....	34.8 MPa (355 kgf/cm <sup>2</sup> )
Pilot circuit .....	3.9 MPa (40 kgf/cm <sup>2</sup> )
Power boost .....	38.0 MPa (388 kgf/cm <sup>2</sup> )

## Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	125 mm	90 mm
Arm	1	140 mm	100 mm
Bucket	1	130 mm	90 mm

## UPPERSTRUCTURE

### Revolving Frame

D-section frame skirt for resistance to deformation.

### Swing Device

Swash plate piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed .....

11.0 min<sup>-1</sup> (rpm)

Swing torque .....

77.5 kNm (7 900 kgfm)

### Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO\* Standards.

\* International Organization for Standardization

## UNDERCARRIAGE

### Tracks

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 : ZX240-5G/ZX250H-5G/ZX250K-5G
	9 : ZX240LC-5G/ZX250LCH-5G/ZX250LCK-5G
Track shoes .....	47 : ZX240-5G/ZX250H-5G/ZX250K-5G
	51 : ZX240LC-5G/ZX250LCH-5G/ZX250LCK-5G
Track guard .....	1 : ZX240-5G/ZX240LC-5G/ZX250K-5G/ZX250LCK-5G
	2 : ZX250H-5G/ZX250LCH-5G

### Travel Device

Each track driven by 2-speed axial piston motor.

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

Automatic transmission system: High-Low.

Travel speeds .....

High : 0 to 5.5 km/h

Low : 0 to 3.4 km/h

Maximum traction force ..

222 kN (22 600 kgf)

Gradeability .....

70% (35 degree) continuous

## SERVICE REFILL CAPACITIES

Fuel tank .....	510.0 L
Engine coolant .....	26.0 L
Engine oil .....	25.0 L
Swing device .....	9.1 L
Travel device (each side) .....	7.8 L
Hydraulic system .....	280.0 L
Hydraulic oil tank .....	156.0 L

## WEIGHTS AND GROUND PRESSURE

### Operating weight and Ground pressure

			ZX240-5G <sup>1</sup>		ZX240LC-5G <sup>1</sup>	
Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm <sup>2</sup> )	kg	kPa(kgf/cm <sup>2</sup> )
Triple grouser	600 mm	2.50 m	23 300	51 (0.52)	23 900	47 (0.48)
		2.96 m	23 400	51 (0.52)	24 000	48 (0.49)
		3.61 m	23 500	51 (0.52)	24 100	48 (0.49)
	700 mm	2.50 m	23 700	44 (0.45)	24 400	41 (0.42)
		2.96 m	23 800	44 (0.45)	24 400	41 (0.42)
		3.61 m	23 900	45 (0.46)	24 500	41 (0.42)
	800 mm	2.50 m	24 000	39 (0.40)	24 700	36 (0.37)
		2.96 m	24 100	39 (0.40)	24 700	36 (0.37)
		3.61 m	24 200	39 (0.40)	24 800	37 (0.38)
	900 mm	2.50 m	24 100	35 (0.36)	25 200	33 (0.34)
		2.96 m	24 200	35 (0.36)	25 300	33 (0.34)
		3.61 m	24 200	35 (0.36)	25 300	33 (0.34)
Reinforced Triple grouser	600 mm	2.50 m	—	—	—	—
		2.96 m	—	—	—	—
		3.61 m	—	—	—	—
Triangular	760 mm	2.50 m	24 400	41 (0.42)	25 000	38 (0.39)
		2.96 m	24 400	41 (0.42)	25 100	39 (0.40)
		3.61 m	24 500	41 (0.42)	25 200	39 (0.40)
	900 mm	2.50 m	25 400	36 (0.37)	26 200	34 (0.35)
		2.96 m	25 500	36 (0.37)	26 200	34 (0.35)
	3.61 m	25 500	36 (0.37)	26 300	34 (0.35)	
Flat	600 mm	2.50 m	24 100	52 (0.53)	24 800	49 (0.50)
		2.96 m	24 200	52 (0.53)	24 900	49 (0.50)
		3.61 m	24 300	53 (0.54)	24 900	49 (0.50)

			ZX250H-5G <sup>2</sup>		ZX250LCH-5G <sup>2</sup>		ZX250K-5G <sup>3</sup>		ZX250LCK-5G <sup>3</sup>	
Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm <sup>2</sup> )	kg	kPa(kgf/cm <sup>2</sup> )	kg	kPa(kgf/cm <sup>2</sup> )	kg	kPa(kgf/cm <sup>2</sup> )
Reinforced Triple grouser	600 mm	2.96 m	24 800	54 (0.55)	25 300	50 (0.51)	25 200	55 (0.56)	25 800	51 (0.52)

\*1 :Including 1.00 m<sup>3</sup> (ISO heaped) bucket weight (850 kg) and counterweight (5 250kg).

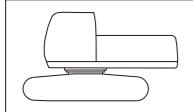
\*2 :Including 1.00 m<sup>3</sup> (ISO heaped) H-bucket weight (990 kg) and counterweight (5 900kg).

\*3 :Including 1.00 m<sup>3</sup> (ISO heaped) reinforced bucket weight (970 kg) and counterweight (6 300kg).

# SPECIFICATIONS

## WEIGHT: BASIC MACHINE and COMPONENTS

### Basic Machine Weight and Overall width



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

ZX240-5G

Shoe width	Weight	Overall width
600 mm	17 800 kg	2 990 mm
700 mm	18 200 kg	3 090 mm
800 mm	18 400 kg	3 190 mm
900 mm	18 500 kg	3 290 mm

ZX250H-5G

Shoe width	Weight	Overall width
600 mm	18 900 kg	2 990 mm

ZX250K-5G

Shoe width	Weight	Overall width
600 mm	19 300 kg	2 990 mm

### Component weights

	ZX240-5G / ZX240LC-5G	ZX250H-5G / ZX250LCH-5G	ZX250K-5G / ZX250LCK-5G
Counterweight	5 250 kg	5 900 kg	6 300 kg
Boom (with boom and arm cylinder)	2 660 kg	2 700 kg	2 660 kg
2.50 m arm (with bucket cylinder)	1 270 kg	—	—
2.96 m arm (with bucket cylinder)	1 320 kg	1 400 kg	1 340 kg
3.61 m arm (with bucket cylinder)	1 410 kg	—	—
1.00 m <sup>3</sup> bucket	850 kg	975 kg	970 kg

## BUCKET AND ARM DIGGING FORCES

Arm length	2.50 m	2.96 m	3.61 m
Bucket digging force* ISO	188 kN (19 200 kgf)	188 kN (19 200 kgf)	188 kN (19 200 kgf)
Bucket digging force* SAE : PCSA	163 kN (16 600 kgf)	163 kN (16 600 kgf)	163 kN (16 600 kgf)
Arm crowd force* ISO	156 kN (15 900 kgf)	131 kN (13 300 kgf)	113 kN (11 500 kgf)
Arm crowd force* SAE : PCSA	155 kN (15 800 kgf)	126 kN (12 900 kgf)	110 kN (11 200 kgf)

\* At power boost

## 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

Capacity	Width	No. Of teeth	Weight	Recommendation					
				ZX240-5G			ZX240LC-5G		
ISO heaped	Without side cutters	With side cutters		2.50 m arm	2.96 m arm	3.61 m arm	2.50 m arm	2.96 m arm	3.61 m arm
0.80 m <sup>3</sup>	950 mm	1 080 mm	4	760 kg	◎	◎	◎	◎	◎
1.00 m <sup>3</sup>	1 130 mm	1 260 mm	5	850 kg	◎	◎	○	○	○
1.10 m <sup>3</sup>	1 220 mm	1 350 mm	5	900 kg	○	○	□	○	○
1.25 m <sup>3</sup>	1 360 mm	1 490 mm	5	945 kg	○	○	—	○	○
1.40 m <sup>3</sup>	1 500 mm	1 630 mm	5	1 020 kg	□	—	—	□	—
*1 0.92 m <sup>3</sup>	1 130 mm	1 180 mm	5	990 kg	●	●	—	●	●
*2 1.00 m <sup>3</sup>	1 130 mm	1 260 mm	5	970 kg	◎	◎	○	○	○
*2 1.10 m <sup>3</sup>	1 220 mm	1 350 mm	5	1 030 kg	○	○	□	○	○
*3 1.00 m <sup>3</sup>	1 140 mm	1 270 mm	5	975 kg	◎	◎	○	○	○
*4 1.00 m <sup>3</sup>	1 140 mm	1 270 mm	5	955 kg	◎	◎	○	○	○
*5 0.80 m <sup>3</sup>	1 000 mm	—	3	1 220 kg	●	●	—	●	●
One-point ripper			1	680 kg	●	●	—	●	●
Center-pull type clamshell bucket: 0.60 m <sup>3</sup> (CECE heaped), Width 940 mm			8	1 130 kg	◎	◎	—	◎	◎
Shell-push type clamshell bucket: 0.60 m <sup>3</sup> (CECE heaped), Width 870 mm			7	960 kg	◎	◎	—	◎	◎

\*1 Rock bucket

\*2 Reinforced bucket

\*3 Heavy-duty bucket

\*4 Heavy-duty level-pin-type bucket

\*5 Ripper bucket

◎ Suitable for materials with density of 2 000 kg/m<sup>3</sup> or less

○ Suitable for materials with density of 1 600 kg/m<sup>3</sup> or less

□ Suitable for materials with density of 1 100 kg/m<sup>3</sup> or less

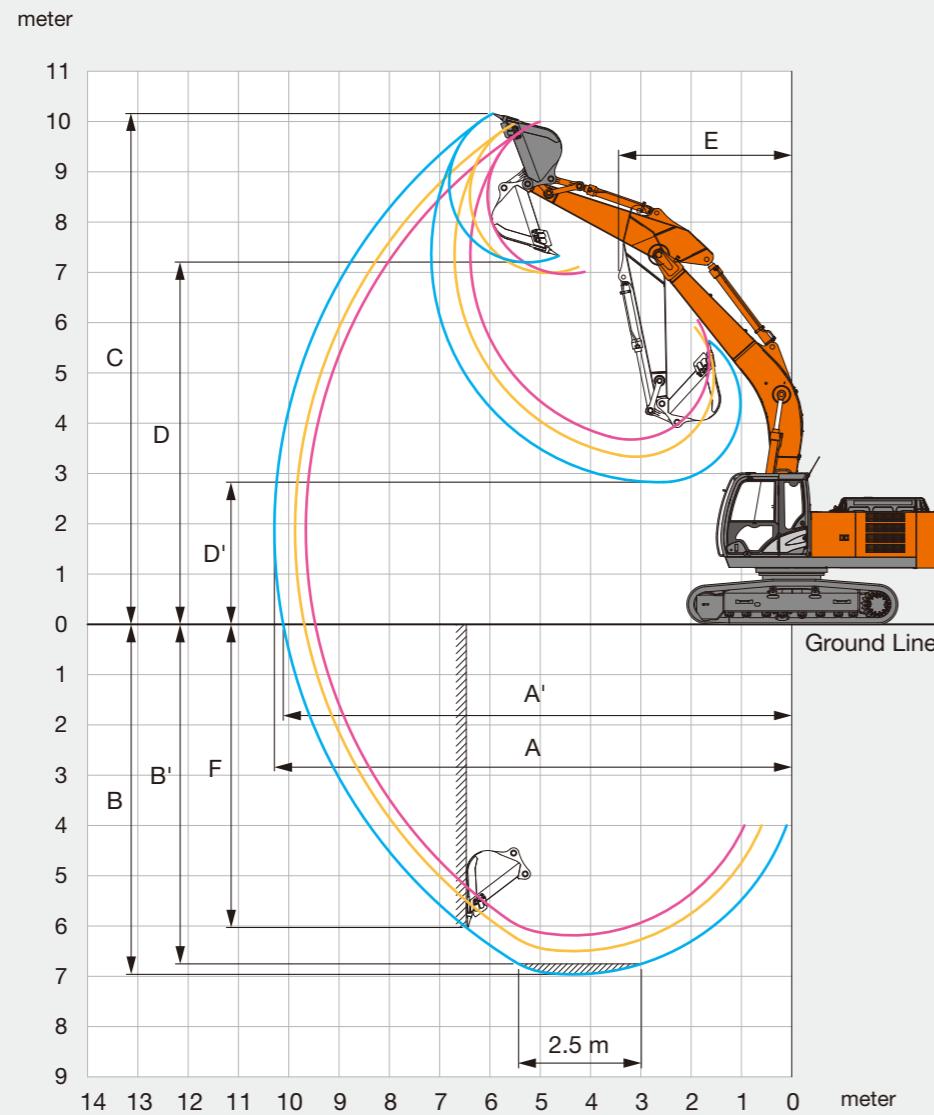
● Heavy-duty service

◇ Slope-finishing service

— Not applicable

# SPECIFICATIONS

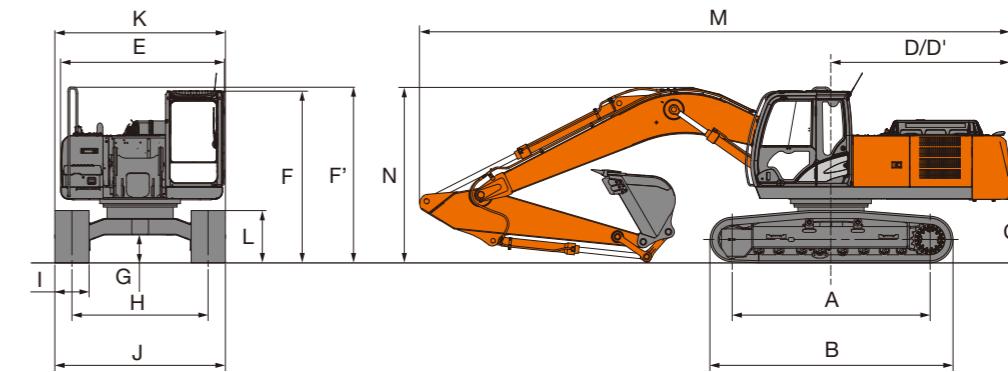
## WORKING RANGES



Arm length	2.50 m	2.96 m	3.61 m	Unit: mm
A Max. digging reach	9 880	10 290	10 910	
A' Max. digging reach (on ground)	9 690	10 110	10 750	
B Max. digging depth	6 500	6 960	7 610	
B' Max. digging depth for 2.5 m level	5 940	6 750	7 440	
C Max. cutting height	9 950	10 160	10 560	
D Max. dumping height	6 990	7 200	7 580	
D' Min. dumping height	3 330	2 830	2 180	
E Min. swing radius	3 480	3 440	3 430	
F Max. vertical wall digging depth	5 580	6 030	6 740	

Excluding track shoe lug

## DIMENSIONS

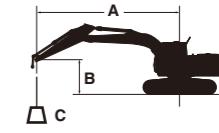


	ZX240-5G	ZX240LC-5G	ZX250H-5G	ZX250LCH-5G	ZX250K-5G	ZX250LCK-5G
A Distance between tumblers	3 460	3 850	3 460	3 850	3 460	3 850
B Undercarriage length	4 260	4 640	4 260	4 640	4 260	4 640
* C Counterweight clearance	1 080	1 080	1 080	1 080	1 080	1 080
D Rear-end swing radius	3 140	3 140	3 140	3 140	3 140	3 140
D' Rear-end length	3 140	3 140	3 140	3 140	3 140	3 140
E Overall width of upperstructure	2 870	2 870	2 870	2 870	2 870	2 870
F Overall height of cab	3 010	3 010	3 010	3 010	3 140	3 140
F' Overall height of upperstructure	3 080	3 080	3 080	3 080	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 Track height with triple grouser shoes	920	920	920	920	920	920
M Overall length						
With 2.50 m arm	10 470	10 470	—	—	—	—
With 2.96 m arm	10 360	10 360	10 360	10 360	10 360	10 360
With 3.61 m arm	10 400	10 400	—	—	—	—
N 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	—	—	—	—

\* Excluding track shoe lug      G: Triple grouser shoe

# LIFTING CAPACITIES (Without Bucket)

- Notes: 1. Ratings are based on ISO 10567.  
 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 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.



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

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

**ZX240-5G**

Conditions	Load point height m	Load radius m														At max. reach				Unit : kg		
		1.5		3.0		4.5		6.0		7.5		9.0		At max. reach								
		Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	meter	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Unit : kg			
Boom 6.00 m	6.0					*6 320	6 050								*6 240	4 460	7.20					
Arm 2.50 m	4.5					*8 520	*8 520	*7 050	5 800	5 810	4 090				5 350	3 760	7.88					
Counterweight	3.0					*10 880	8 220	7 950	5 470	5 660	3 950				4 890	3 410	8.24					
5 250 kg	1.5					11 830	7 650	7 620	5 180	5 500	3 800				4 740	3 280	8.31					
Shoe 600 mm	0 (Ground)					11 580	7 440	7 420	5 000	5 390	3 700				4 850	3 340	8.10					
-1.5						*9 550	*9 550	11 570	7 430	7 360	4 940				5 310	3 640	7.58					
-3.0						*16 120	14 830	11 720	7 560	7 450	5 020				6 400	4 370	6.69					
-4.5						*12 610	*12 610	*9 340	7 870						*7 840	6 380	5.23					
-6.0																						
Boom 6.00 m	6.0					*5 780	*5 780	*4 930	4 220						*4 390	4 060	7.67					
Arm 2.96 m	4.5					*7 730	*7 730	*6 570	5 890	5 860	4 230				*4 400	3 470	8.32					
Counterweight	3.0					*10 110	8 420	*7 670	5 540	5 690	3 970				4 540	3 160	8.65					
5 250 kg	1.5					11 970	7 770	7 670	5 220	5 510	3 810				4 400	3 040	8.72					
Shoe 600 mm	0 (Ground)					11 610	7 460	7 430	5 000	5 380	3 680				4 490	3 090	8.52					
-1.5						*10 880	*10 880	*9 380	*9 380	11 520	7 380	7 330	4 910		*4 850	3 330	8.03					
-3.0						*15 560	*15 560	14 620	11 610	7 460	7 370	4 940			5 700	3 900	7.20					
-4.5						*14 240	*14 240	*10 330	7 710						*7 630	5 310	5.87					
-6.0																						
Boom 6.00 m	7.5														*3 560	*3 560	7.43					
Arm 3.61 m	6.0														*3 420	*3 420	8.38					
Counterweight	4.5														*3 410	3 080	8.97					
5 250 kg	3.0														*3 410	2 830	9.28					
Shoe 600 mm	1.5														*3 770	2 730	9.35					
0 (Ground)						*11 270	7 950	7 750	5 290	5 540	3 830	4 200	2 890		4 010	2 750	9.16					
-1.5						*5 260	*5 260	*8 610	*8 610	11 450	7 320	7 290	4 860	5 270	3 580		4 280	2 920	8.71			
-3.0						*8 940	*8 940	*13 080	*13 080	11 470	7 330	7 260	4 840	5 280	3 580		4 880	3 330	7.95			
-4.5						*13 560	*13 560	*16 110	*16 110	14 680	*11 330	7 500	7 400	4 960			6 240	4 240	6.77			
-6.0															*7 240	7 050	4.88					

Rating over-front Rating over-side or 360 degrees Unit : kg

**ZX240LC-5G**

Conditions	Load point height m	Load radius m														At max. reach				Unit : kg	
		1.5		3.0		4.5		6.0		7.5		9.0		At max. reach							
		Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	meter	Rating over-front	Rating over-side or 360 degrees	Rating over-front	Rating over-side or 360 degrees	
Boom 6.00 m	6.0					*8 520	*8 520	*7 050	6 430	*6 420	4 530				*6 240	4 940	7.20				
Arm 2.50 m	4.5					*10 880	9 220	*8 100	6 090	5 690	4 390				6 220	4 170	7.88				
Counterweight	3.0					*12 670	8 640	8 990	5 790	6 430	4 240				5 690	3 800	8.24				
5 250 kg	1.5					*13 250	8 420	8 780	5 600	6 320	4 140				5 670	3 730	8.31				
Shoe 600 mm	0 (Ground)					*9 550	*9 550	*12 950	8 410	8 720	5 550				5 670	3 730	8.10				
-1.5						*16 120	*16 120	*11 840													

# EQUIPMENT

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

	ZX240-5G / ZX240LC-5G	ZX250H-5G / ZX250LCH-5G	ZX250K-5G / ZX250LCK-5G
<b>ENGINE</b>			
Air cleaner double filters	●	●	●
Auto idle system	●	●	●
Cartridge-type engine oil filter	●	●	●
Cartridge-type fuel pre-filter	●	●	●
Cartridge-type fuel main filter	●	●	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●	●	●
ECO/PWR mode control	●	●	●
Engine warm-up device	●	●	●
Fan guard	●	●	●
Water separator	●	●	●
Pre-cleaner	○	○	○
Dust-Proof indoor net	●	●	●
Radiator reserve tank	●	●	●
50 A alternator	●	●	●
<b>HYDRAULIC SYSTEM</b>			
Auto power lift	●	●	●
Control valve with main relief valve	●	●	●
Full-flow filter	●	●	●
High mesh full flow filter with restriction indicator	○	○	●
Pilot filter	●	●	●
Power boost	●	●	●
Suction filter	●	●	●
One extra port for control valve	●	●	●
Work mode selector	●	●	●

	ZX240-5G / ZX240LC-5G	ZX250H-5G / ZX250LCH-5G	ZX250K-5G / ZX250LCK-5G
<b>CAB</b>			
All-weather sound suppressed steel cab	●	●	●
AM-FM radio with 2 speaker	●	●	●
Ashtray	●	●	●
Auto control air conditioner	●	●	●
AUX. terminal and storage	○	○	○
Cab (Center pillar reinforced structure)	●	●	●
Drink holder	●	●	●
Drink holder with hot & cool	●	●	●
Electric double horn	●	●	●
Engine shut-off lever	●	●	●
Evacuation hammer	●	●	●
Fire extinguisher bracket	○	○	○
Floor mat	●	●	●
Footrest	●	●	●
Front window washer	●	●	●
Front windows on upper, lower and left side can be opened	●	●	●
Lower cab front guard	○	●	●
Upper cab front guard	○	○	○
Glove compartment	●	●	●
Hot & cool box	●	●	●
Intermittent windshield wipers	●	●	●
Key cylinder light	●	●	●
K-cab. (Cab with overhead window & guard)	—	—	●
LED room light with door courtesy	●	●	●
OPG top guard Level I (ISO10262) compliant cab	●	●	●
Pilot control shut-off lever	●	●	●
Rear tray	●	●	●
Retractable seat belt	●	●	●
Rubber radio antenna	●	●	●
Seat : mechanical suspension seat	○	●	●
Seat : air suspension seat with heater	○	○	○
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●	●	●
Short wrist control levers	●	●	●
Twin wiper	—	—	●
4 fluid-filled elastic mounts	●	●	●
24V cigarette lighter	●	●	●

	ZX240-5G / ZX240LC-5G	ZX250H-5G / ZX250LCH-5G	ZX250K-5G / ZX250LCK-5G
<b>MONITOR SYSTEM</b>			
Alarm buzzers: overheat, engine oil pressure	●	●	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, etc	●	●	●
Display of meters: water temperature, hour, fuel rate, clock	●	●	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●	●	●
32 languages selection	●	●	●
<b>LIGHTS</b>			
Additional cab roof front lights	○	○	○
Additional boom light with cover	○	○	○
2 working lights	●	●	●
<b>UPPER STRUCTURE</b>			
Electric fuel refilling pump	○	○	○
Fuel level float	●	●	●
Hydraulic oil level gauge	●	●	●
Rear view camera	○	○	○
Rear view mirror (right & left side)	●	●	●
Swing parking brake	●	●	●
Tool box	●	●	●
Undercover	●	●	●
6.0 mm reinforced undercover	○	●	●
Utility space	●	●	●
5 250 kg counterweight	●	—	—
5 900 kg counterweight	○	●	—
6 300 kg counterweight	○	—	●
2 x 88 Ah batteries	●	●	●

	ZX240-5G / ZX240LC-5G	ZX250H-5G / ZX250LCH-5G	ZX250K-5G / ZX250LCK-5G
<b>UNDERCARRIAGE</b>			
Bolt-on sprocket	●	●	●
Reinforced track links with pin seals	●	●	●
Reinforced lower flange	—	●	●
Reinforced idler bracket	—	●	●
Travel motor covers	●	●	●
Travel parking brake	●	●	●
9.0 mm reinforced track undercover	○	○	●
Track guard (each side) and hydraulic track adjuster	●	●	●
Upper and lower rollers	●	●	●
2 track guards	○	●	○
4 tie down hooks	●	●	●
600 mm triple grouser shoes	●	Reinforced	Reinforced
Reinforced side step	—	●	●
<b>FRONT ATTACHMENTS</b>			
Centralized lubrication system	●	●	●
Dirt seal on all bucket pins	●	●	●
Flanged pin	●	●	●
HN bushing	●	●	●
Reinforced resin thrust plate	●	●	●
Reinforced link B	—	●	for demolition
WC (tungsten-carbide) thermal spraying	●	●	●
1.00 m <sup>3</sup> bucket (ISO heaped)	●	H-bucket	Reinforced bucket
2.96 m arm	●	H-arm	K-arm
6.00 m boom	●	H-boom	K-boom
<b>ATTACHMENTS</b>			
Attachment basic piping	○	○	●
Breaker and crusher piping	○	○	●
High mesh full flow filter with restriction indicator	○	○	●
Parts for breaker and crusher	○	○	○
2 pump combined flow for attachment basic piping	○	○	○
Line filter	○	○	○
<b>MISCELLANEOUS</b>			
Lockable fuel refilling cap	●	●	●
Lockable machine covers	●	●	●
Onboard information controller	●	●	●
Skid-resistant tapes, plates and handrails	●	●	●
Standard tool kit	●	●	●
Travel direction mark on track frame	●	●	●
Global e-Service	●	●	●



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

## Hitachi Environmental Vision 2050

Our Environmental Vision envisions a low-carbon society; a resource efficient society; a harmonized society with nature. To achieve such a sustainable society, we have established a set of long-term environmental targets called Hitachi Environmental Innovation 2050.

### Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA\*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

\*Life Cycle Assessment – ISO 14040

Before using a machine with a satellite communication system, please make sure that the satellite 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 use, read and understand the Operator's Manual for proper operation.