

ZAXIS-3 series

HITACHI

ZAXIS  
210



## HYDRAULIC EXCAVATOR

- **Model Code** : ZX210-3 / ZX210LC-3 / ZX210LCN-3
- **Engine Rated Power** : 122 kW (164 HP)
- **Operating Weight** : ZX210-3 : 20 300 kg - 22 000 kg  
ZX210LC-3 : 20 900 kg - 22 600 kg  
ZX210LCN-3 : 21 000 kg - 22 100 kg
- **Backhoe Bucket** : SAE, PCSA Heaped : 0.51 - 1.20 m<sup>3</sup>  
CECE Heaped : 0.45 - 1.00 m<sup>3</sup>

# 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:**  
12% higher production
- **Comfort:**  
Excellent visibility  
Enhanced controllability  
Lower noise level
- **New equipment:**  
Standard satellite communication system  
Standard rear view camera  
Standard theft deterrent system
- **Reduced running costs:**  
Lower fuel consumption per m<sup>3</sup>  
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 controlability and operator comfort

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### **Multi function monitor**

Maintenance support  
Attachment support system  
Rear view camera  
Theft deterrent system  
Fuel consumption monitoring

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### **Durability and reliability**

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Strengthened X beam  
Improved idler brackets  
Strengthened front attachment

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Engine shut-off switch

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### **Specifications**

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- **The new engine complies with the Emission Regulations EU Stage III A**
- **The advanced low noise design complies with the coming EU noise regulation 2000 / 14 / EC, STAGE II**



*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.*



## **Boosted Productivity**

New hydraulic system HIOS III and new OHC 4-valve diesel engine were developed for ZAXIS-3. These advanced technologies are at work to yield bigger output with higher fuel efficiency.

## 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 12% 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 13% compared to the previous model's P mode, while yielding similar production.

### Increase in Swing Torque and Traction Force

Swing torque and traction force are increased significantly.

**-Swing torque 13% 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 pressure oil is delivered from boom cylinder rod side to arm cylinder bottom side to increase flow rate for higher arm roll-in speed with 20%. 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, pressure 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

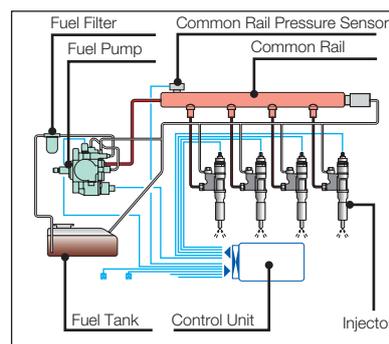
### OHC 4-Valve Engine

The new OHC 4-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.



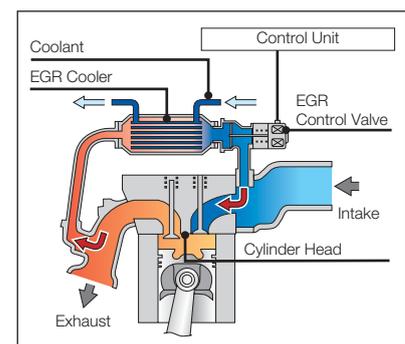
### Cooled EGR\*\* System

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

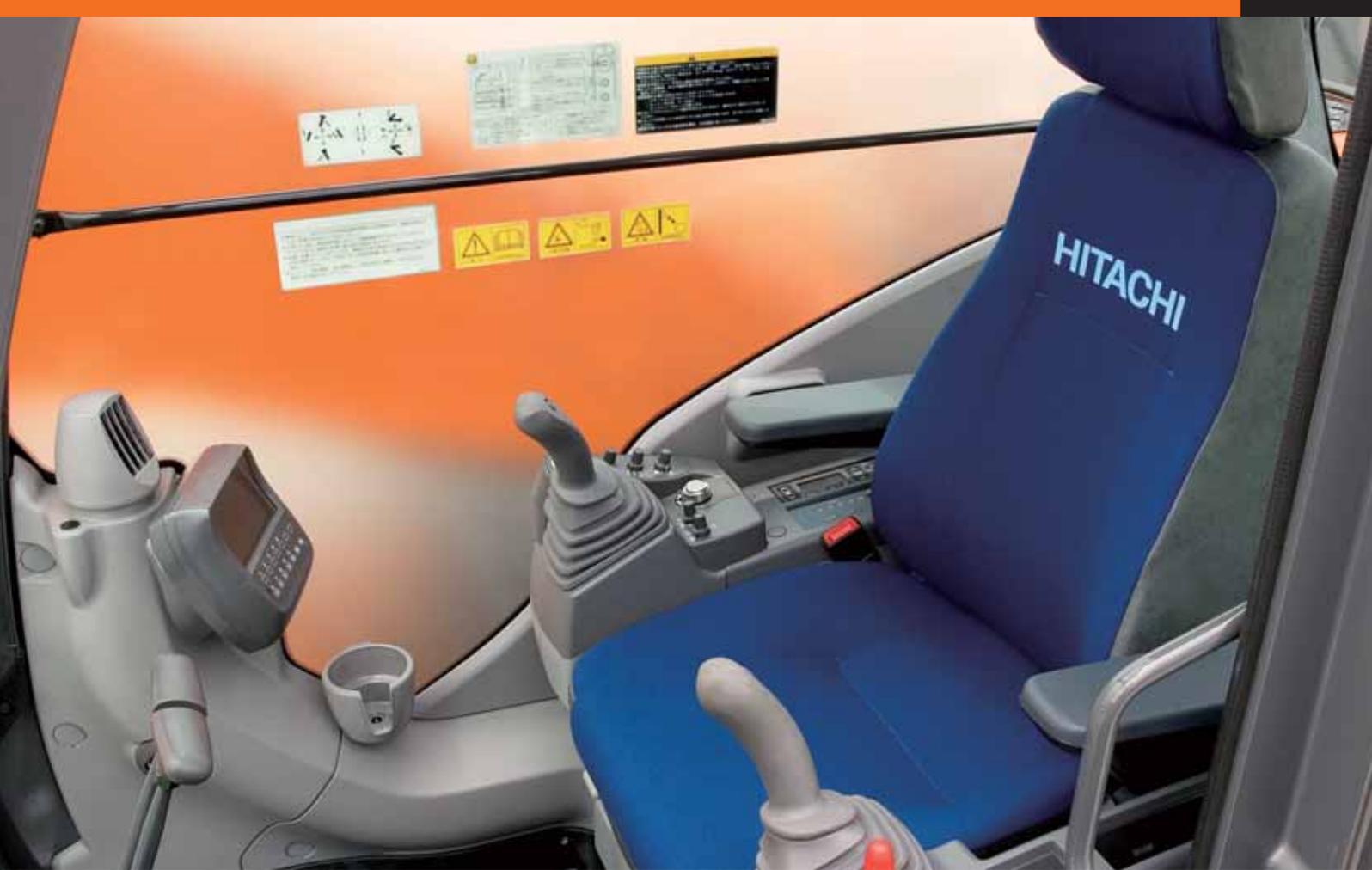
\*\*Exhaust Gas Recirculation



## A New Standard in Operator Comfort

The operator's seat of the ZAXIS-3 series gives the operator an excellent view of the jobsite. On the widescreen colour LCD monitor the operator can see what is behind the machine. Ample legroom, short stroke levers and a large seat ensure optimum working conditions for the operator during long hours.





The ZAXIS-3 series cab has been redesigned to meet demands of customers. From the operator's seat the operator has an excellent view of the jobsite. On the widescreen color LCD monitor the operator can see machine conditions and with the rear view camera, what is behind the machine. Ample legroom, short stroke levers and a suspension seat with heating ensure optimum working conditions. The seat features horizontal, vertical adjustments and has a backrest contoured for comfort, with a HITACHI logo.



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 with silicone oil, the cab rests on.

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

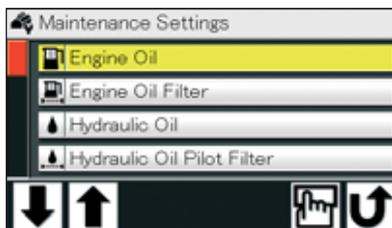
The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear view camera. A theft deterrent system and multi-language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

## Multi function monitor



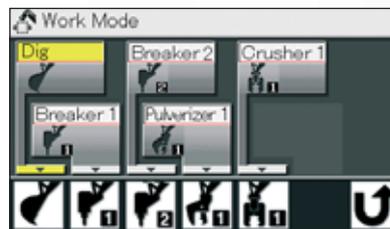
The color LCD monitor, located in the cab, indicates coolant temperature, fuel level, and maintenance data. It also allows one-touch adjustment of the attachment. The display can also be adjusted to day or night shift.

## 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.

## Multi-language selection



The menu allows selection from 12 languages.

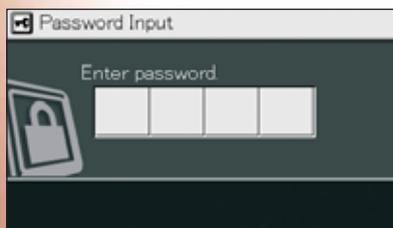




### Rear view camera



### Theft deterrent system

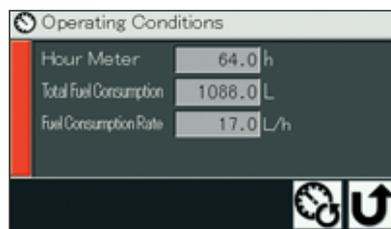


The electronic immobiliser requires the entry of an encryption code to the multifunctional monitor each time when starting the engine to prevent theft and vandalism.

The widescreen color LCD, teamed up with the rear view camera on the counterweight provides rearward viewing.

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

### 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.

## A Solid Base for a Long Life

HITACHI's technology is built on a wealth of experience and know-how from limestone sites and quarries around the world. The undercarriage of the ZAXIS 210 has become much stronger. Improved construction and enlarged box sections, a track undercover plate that protects the center joint and hydraulic hoses make this machine more durable.



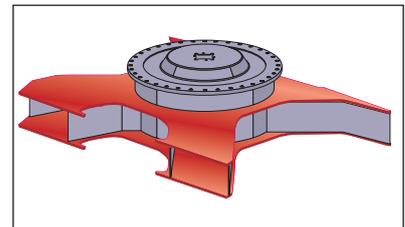
## Strengthened undercarriage

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



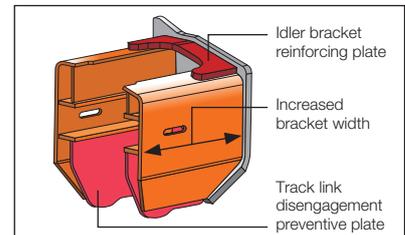
## Strengthened X beam and side frames

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 idler 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 reliability under heavy-duty operation.



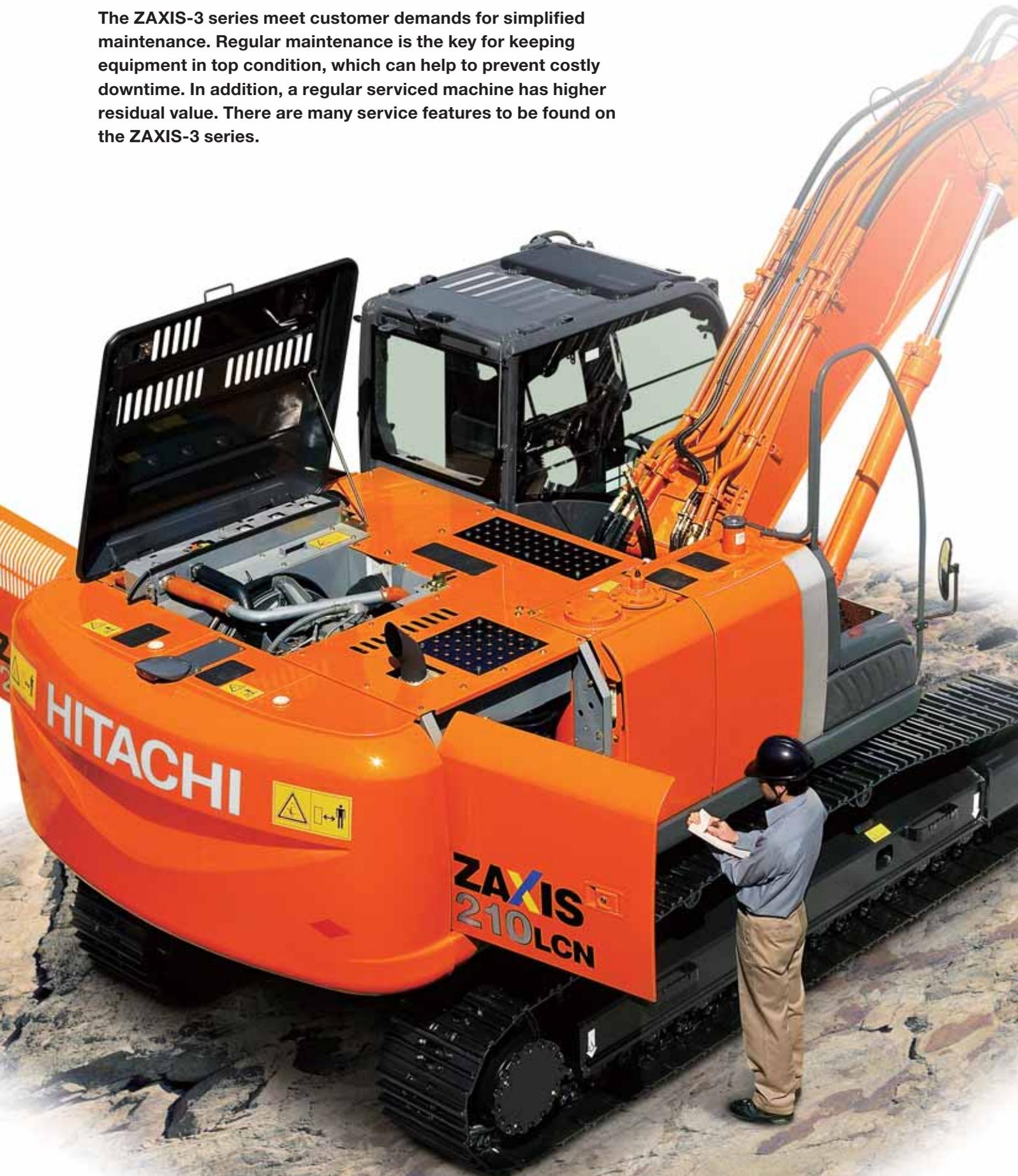
WC Thermal spraying



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 downtime. In addition, a regular serviced machine has higher residual value. There are many service features to be found on the ZAXIS-3 series.



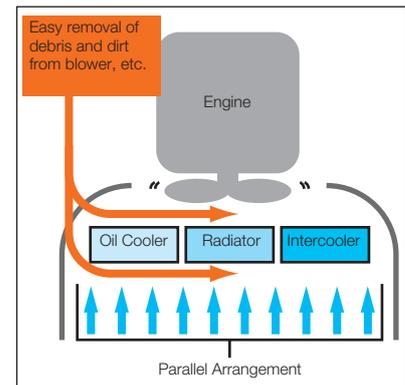
## Conveniently located inspection points



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.

## 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.

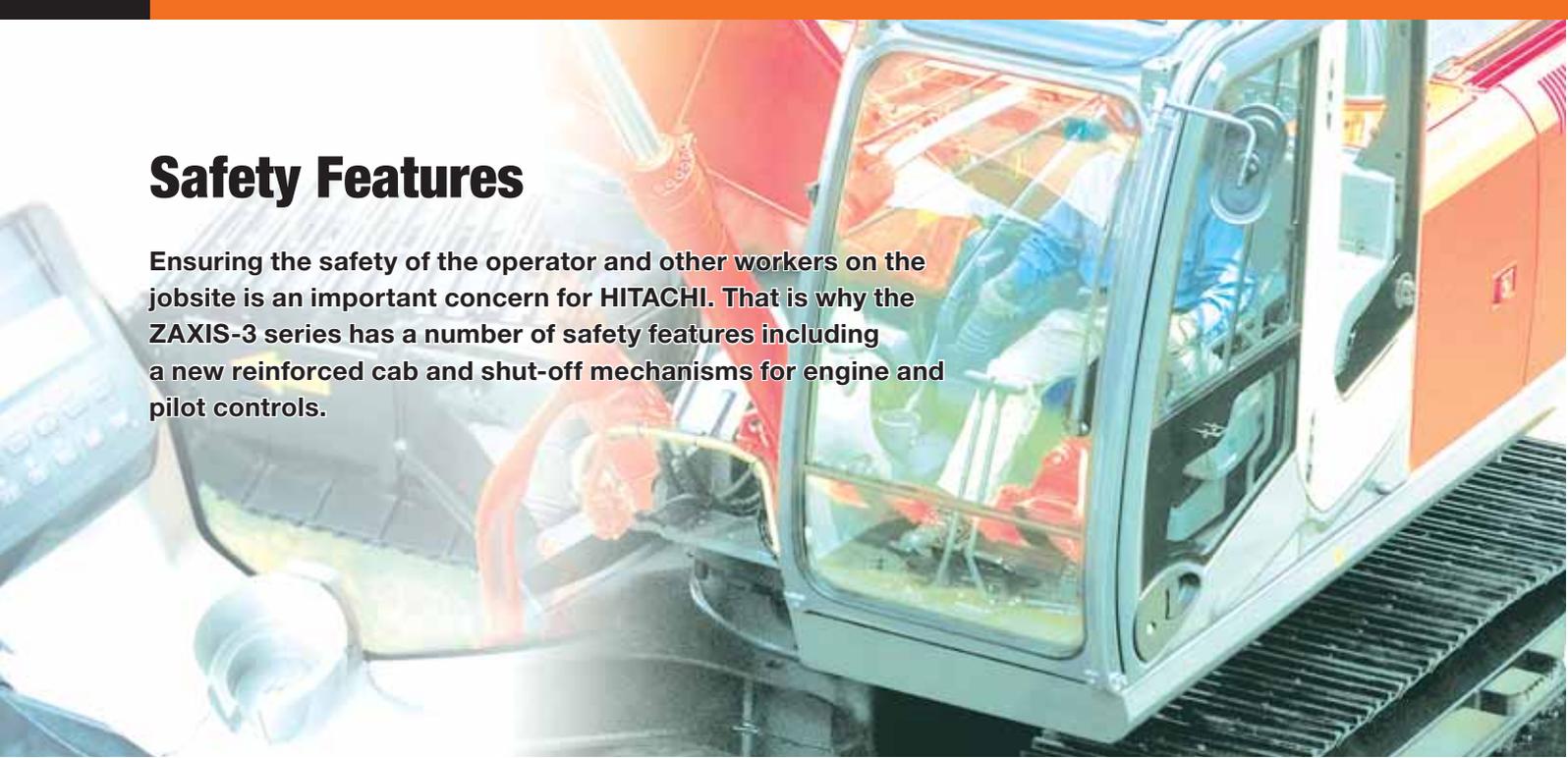
## Extended oil and filter change intervals

Front Pin Lubricating Intervals and Consumables Replacement		
		New ZAXIS 210
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.

# Safety Features

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.



## 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 2.5 times conventional load when side load is applied to the cab top until its deformation reaches 200 mm.

withstanding load : 2.5-fold increase



## Additional features

Cab right protection bars



Evacuation hammer



Engine shut-off switch



Pilot control shut-off lever



FOPS guard



(optional)

Retractable seat belt



Other features include a retractable seatbelt, 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 (FOPS) guard is optionally available. For the cab windows there is a choice of laminated or tempered glass.

# 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.



## 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. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.



## A quieter machine

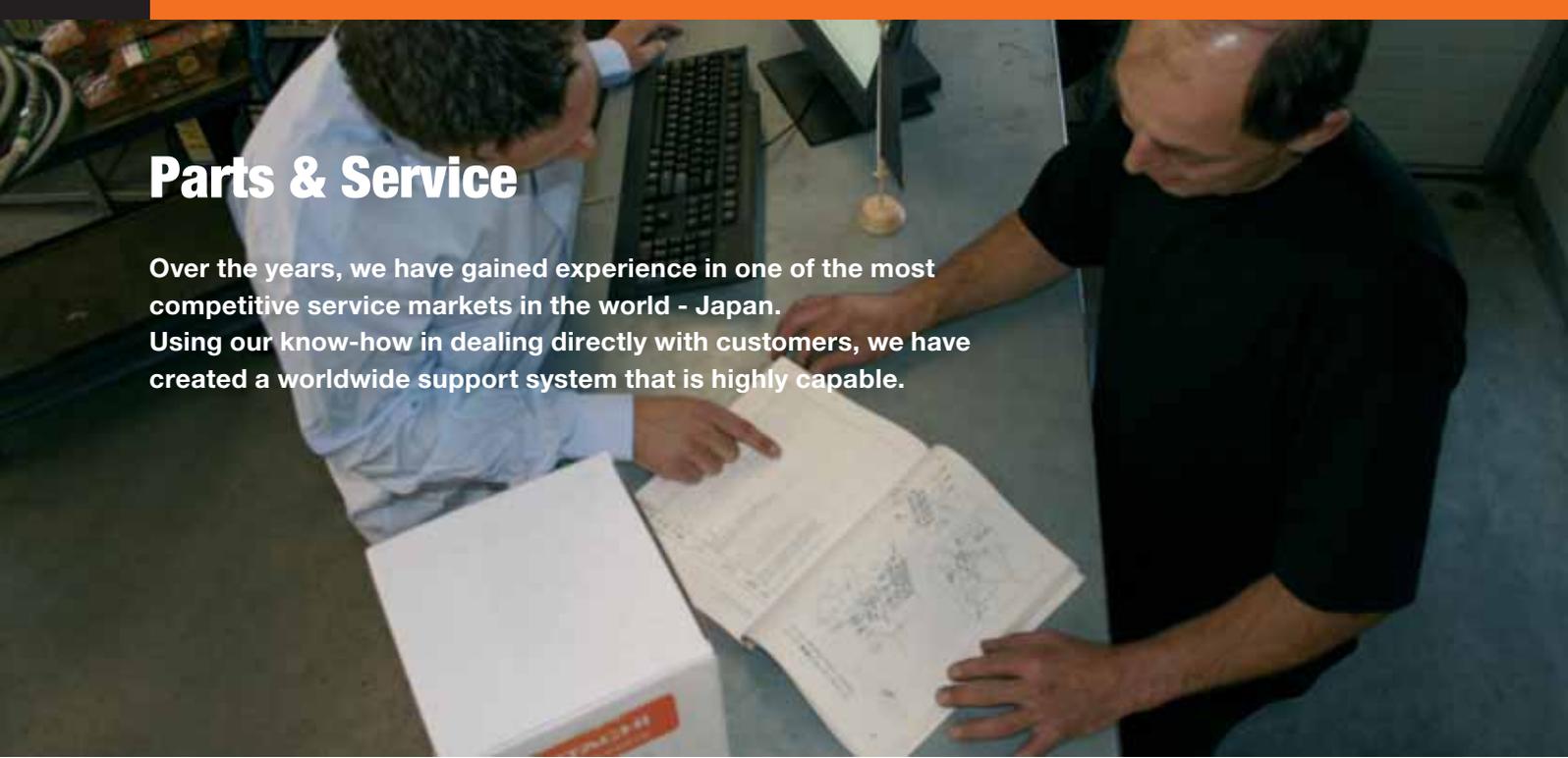
A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. A fan with curved blades reduces air resistance and air flow noise. Third, a time-tested muffler suppresses engine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



A photograph showing two men in a workshop or office setting. One man, wearing a light blue shirt, is pointing at a large open manual or document on a desk. The other man, wearing a black t-shirt, is looking at the document. A white box is also visible on the desk. In the background, there is a computer keyboard and other office equipment.

# 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 on-line 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.

# Remote fleet management with e-Service Owner's Site

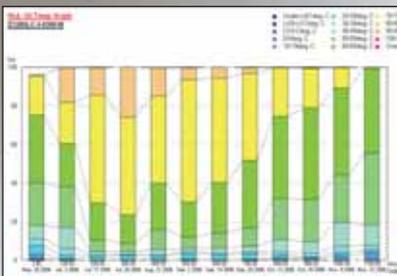
Reduce maintenance effort and costs for your machine fleet with e-Service Owner's Site; latest machine information of each of your machines available on-line, in your office.



## e-Service Owner's Site features

### Operation

Remote access to all relevant machine operation information such as daily operating hours and machine fuel level as well as historically cumulated temperatures and pressures.



### Maintenance

For each machine, maintenance history as well as recommended maintenance due is displayed in one view, allowing for accurate and efficient fleet maintenance management.



### Location

In addition to any general GPS function, GIS (Geographical Information System) will not only show the geographical position of each machine with immediate serial number identification, it will also allow for dedicated multiple machine searches using specific operational information as search criteria.



Check and monitor each of your machines from your office

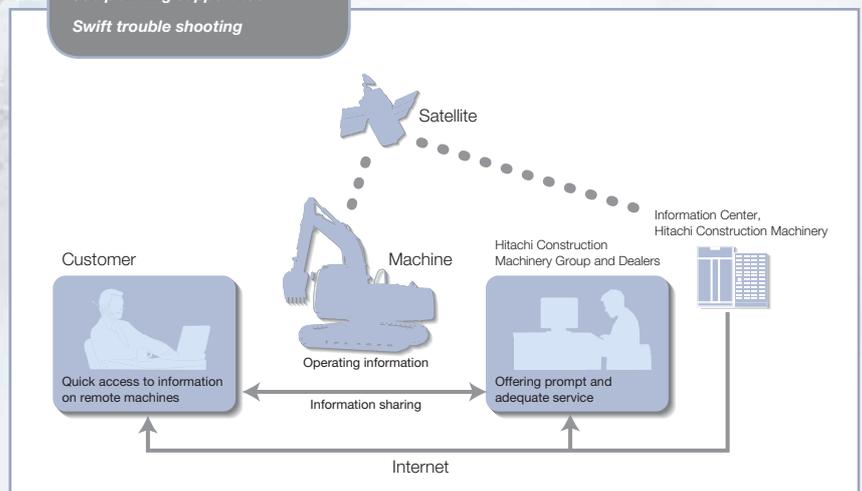
Enhanced service support from your local dealer

Actual geographical location of each of your machines

e-Service Owner's Site is an on-line fleet management tool offered by HCME to each of its customers. It will present all operational information and location of your machines on a PC in your office, giving you an up to date overview of your machines, allowing for full fleet control. Each machine will regularly send its operational data to a satellite and from there, via a ground station to a Hitachi server. The data collected in the server will then be processed and directed to each customer around the world. Your machine information will be available through a secure internet connection for you and your dealer. This communication chain is operational 24h a day, each day of the year. It will support your job planning, help you maintain your machine and allow for enhanced service and trouble shooting support by your local dealer, all directly contributing to reduce downtime and increase the cost performance of your fleet.

All new ZAXIS-3 and ZW machines supplied by HCME will have a satellite communication unit installed as standard\*, meaning each owner can directly enjoy the benefits of e-Service Owner's Site. Your local dealer will be able to give you access to e-Service Owner's Site.

- Optimizing fleet management
- Accurate maintenance planning
- Job planning support tool
- Swift trouble shooting



\* (1) Satellite communication may be forbidden by the local regulatory standards (including safety standards) and legal requirements of the particular country where you wish to use it. Please contact HITACHI dealer for details.  
 (2) Satellite communication basically allows for worldwide coverage. Contact your local dealer for the latest situation on actual satellite communication availability for your country or specific jobsite.  
 (3) If transmission of the satellite signal is hindered in any way, satellite communication may not be possible.

## ENGINE

Model .....	Isuzu AI-4HK1X
Type .....	4-cycle water-cooled, direct injection
Aspiration .....	Turbocharged, intercooled
No. of cylinders .....	4
Rated power	
ISO 9249, net .....	122 kW (164 HP) at 2 000 min <sup>-1</sup> (rpm)
EEC 80/1269, net ..	122 kW (164 HP) at 2 000 min <sup>-1</sup> (rpm)
SAE J1349, net .....	122 kW (164 HP) at 2 000 min <sup>-1</sup> (rpm)
Maximum torque .....	655 N·m (67 kgf·m) at 1 500 min <sup>-1</sup> (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 212 L/min                              |
| Pilot pump .....    | 1 gear pump                                |
| Maximum oil flow .. | 30 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 .....	34.3 MPa (350 kgf/cm <sup>2</sup> )
Travel circuit .....	34.3 MPa (350 kgf/cm <sup>2</sup> )
Pilot circuit .....	3.9 MPa (40 kgf/cm <sup>2</sup> )
Power boost .....	36.3 MPa (370 kgf/cm <sup>2</sup> )

## 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	120 mm	85 mm
Arm	1	135 mm	95 mm
Bucket	1	115 mm	80 mm
Positioning	1	150 mm	100 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.

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 .....	13.3 min <sup>-1</sup> (rpm)
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### 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 Standardisation Organisation

## 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 .....	7 : ZX210-3 8 : ZX210LC-3 / ZX210LCN-3
Track shoes .....	46 : ZX210-3 49 : ZX210LC-3 / ZX210LCN-3
Track guard .....	1

### 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 5.5 km/h Low : 0 to 3.5 km/h
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Maximum traction force ..	203 kN (20 710 kgf)
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Gradeability .....	35° (70%) continuous
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## WEIGHTS AND GROUND PRESSURE

### ZX210-3 WITH MONOBLOCK BOOM:

Equipped with 5.68 m monoblock boom, 2.91 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm	20 300 kg	45 kPa (0.46 kgf/cm <sup>2</sup> )
	700 mm	20 700 kg	40 kPa (0.41 kgf/cm <sup>2</sup> )
	800 mm	21 000 kg	35 kPa (0.36 kgf/cm <sup>2</sup> )
	900 mm	21 500 kg	32 kPa (0.33 kgf/cm <sup>2</sup> )

### ZX210LC-3 WITH MONOBLOCK BOOM:

Equipped with 5.68 m monoblock boom, 2.91 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm	20 900 kg	43 kPa (0.44 kgf/cm <sup>2</sup> )
	700 mm	21 300 kg	38 kPa (0.39 kgf/cm <sup>2</sup> )
	800 mm	21 600 kg	33 kPa (0.34 kgf/cm <sup>2</sup> )
	900 mm	22 100 kg	30 kPa (0.31 kgf/cm <sup>2</sup> )

### ZX210LCN-3 WITH MONOBLOCK BOOM:

Equipped with 5.68 m monoblock boom, 2.91 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	500 mm	21 000 kg	52 kPa (0.53 kgf/cm <sup>2</sup> )

### ZX210-3 WITH 2-PIECE BOOM:

Equipped with 2-piece boom, 2.03 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm	20 900 kg	47 kPa (0.48 kgf/cm <sup>2</sup> )
	700 mm	21 300 kg	41 kPa (0.42 kgf/cm <sup>2</sup> )
	800 mm	21 600 kg	36 kPa (0.37 kgf/cm <sup>2</sup> )
	900 mm	22 000 kg	32 kPa (0.33 kgf/cm <sup>2</sup> )

### ZX210LC-3 WITH 2-PIECE BOOM:

Equipped with 2-piece boom, 2.03 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	600 mm	21 500 kg	44 kPa (0.45 kgf/cm <sup>2</sup> )
	700 mm	21 900 kg	39 kPa (0.40 kgf/cm <sup>2</sup> )
	800 mm	22 100 kg	34 kPa (0.35 kgf/cm <sup>2</sup> )
	900 mm	22 600 kg	31 kPa (0.32 kgf/cm <sup>2</sup> )

### ZX210LCN-3 WITH 2-PIECE BOOM:

Equipped with 2-piece boom, 2.03 m arm and 0.80 m<sup>3</sup> bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Operating weight	Ground pressure
Triple grouser	500 mm	21 600 kg	54 kPa (0.55 kgf/cm <sup>2</sup> )

Weight of the basic machines [including 4 750 kg or 5 500 kg counterweight and triple grouser shoes, excluding front-end attachment, fuel, hydraulic oil, engine oil and coolant etc.] are:

- ZX210-3 ..... 15 900 kg with 600 mm shoes
- ZX210LC-3 ..... 16 500 kg with 600 mm shoes
- ZX210LCN-3 ..... 16 700 kg with 500 mm shoes

## SERVICE REFILL CAPACITIES

Fuel tank .....	400.0 L
Engine coolant .....	26.0 L
Engine oil .....	23.0 L
Swing device .....	6.2 L
Travel device .....	6.8 L
(each side)	
Hydraulic system .....	240.0 L
Hydraulic oil tank .....	135.0 L

## BACKHOE ATTACHMENTS

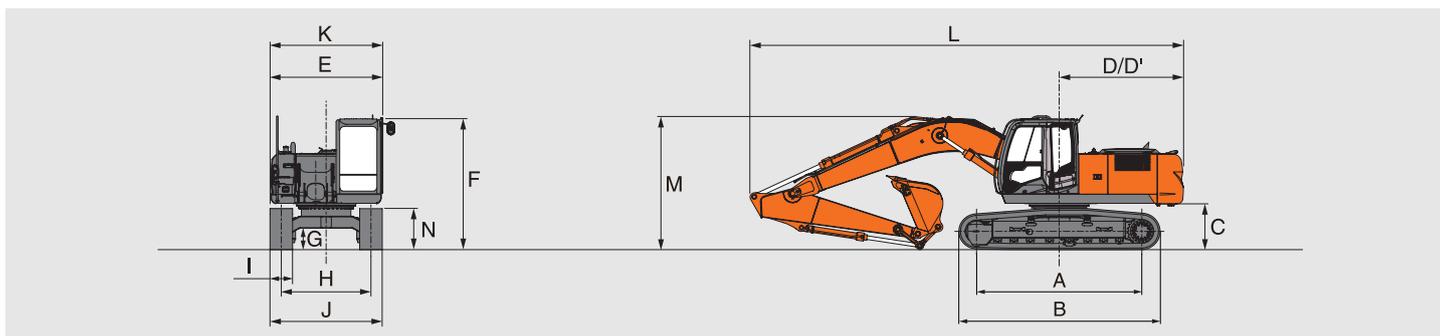
Boom and arms are of welded, box-section design. 5.68 m monoblock boom, 2-piece boom and 2.03 m, 2.42 m and 2.91 m arms are available.

## BUCKETS

Capacity SAE, PCSA heaped	Width without side cutters	Weight
0.56 m <sup>3</sup>	700 mm	498 kg
0.68 m <sup>3</sup>	800 mm	548 kg
0.80 m <sup>3</sup>	1 030 mm	660 kg
0.90 m <sup>3</sup>	1 000 mm	608 kg
1.02 m <sup>3</sup>	1 100 mm	658 kg
1.13 m <sup>3</sup>	1 200 mm	688 kg
1.25 m <sup>3</sup>	1 300 mm	718 kg

# SPECIFICATIONS

## DIMENSIONS : MONOBLOCK BOOM



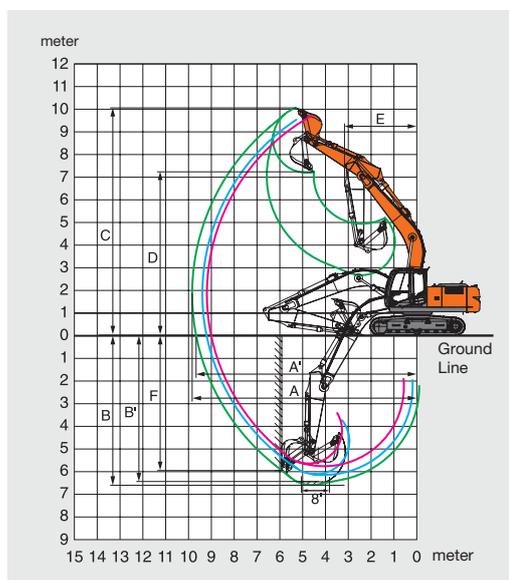
Unit: mm

	ZX210-3	ZX210LC-3	ZX210LCN-3
A Distance between tumblers	3 370	3 660	3 660
B Undercarriage length	4 170	4 460	4 460
* C Counterweight clearance	1 030	1 030	1 020
D Rear-end swing radius	2 750	2 750	2 750
D' Rear-end length	2 750	2 750	2 740
E Overall width of upperstructure	2 710	2 710	2 480
F Overall height of cab	2 950	2 950	2 950
* G Min. ground clearance	450	450	450
H Track gauge	2 200	2 390	1 980
I Track shoe width	G 600	G 600	G 500
J Undercarriage width	2 800	2 990	2 480
K Overall width	2 860	2 990	2 500
L Overall length			
With 2.03 m arm	9 610	9 610	9 680
With 2.42 m arm	9 610	9 610	9 680
With 2.91 m arm	9 520	9 520	9 580
M Overall height of boom			
With 2.03 m arm	3 150	3 150	3 150
With 2.42 m arm	3 180	3 180	3 180
With 2.91 m arm	2 940	2 940	2 940
N Track height with triple grouser shoes	920	920	920

\* Excluding track shoe lug      G: Triple grouser shoe

## WORKING RANGES

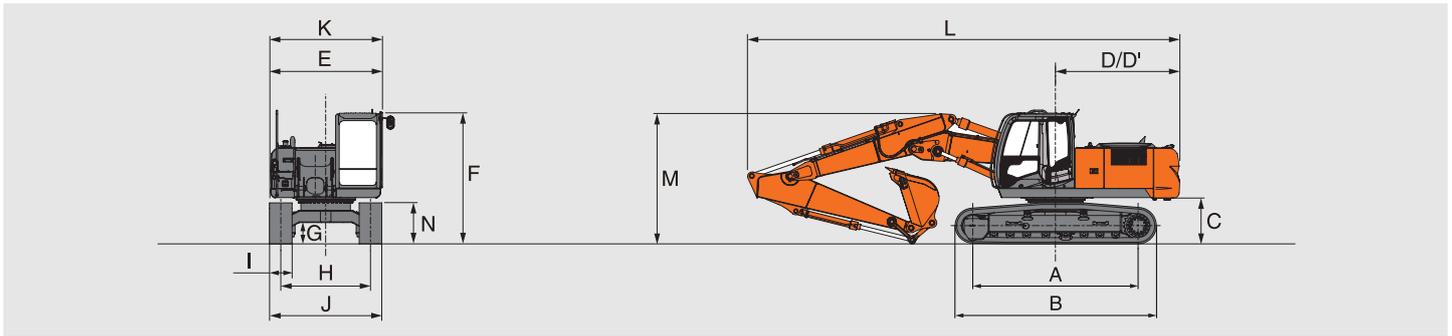
Unit: mm



	ZX210-3 / ZX210LC-3 / ZX210LCN-3		
	5.68 m Monoblock boom		
Arm length	2.03 m	2.42 m	2.91 m
A Max. digging reach	9 300	9 500	9 990
A' Max. digging reach (on ground)	9 110	9 320	9 820
B Max. digging depth	5 800	6 180	6 670
B' Max. digging depth (8° level)	5 580	5 950	6 480
C Max. cutting height	9 850	9 670	10 040
D Max. dumping height	6 940	6 830	7 180
E Min. swing radius	3 480	3 350	3 250
F Max. vertical wall	5 210	5 300	5 990
Bucket digging force** ISO	151 kN (15 400 kgf)		
Bucket digging force** SAE : PCSA	129 kN (13 200 kgf)		
Arm crowd force** ISO	145 kN (14 800 kgf)	133 kN (13 600 kgf)	109 kN (11 100 kgf)
Arm crowd force** SAE : PCSA	134 kN (13 700 kgf)	124 kN (12 700 kgf)	102 kN (10 400 kgf)

Excluding track shoe lug    \*\* At power boost

## DIMENSIONS : 2-PIECE BOOM



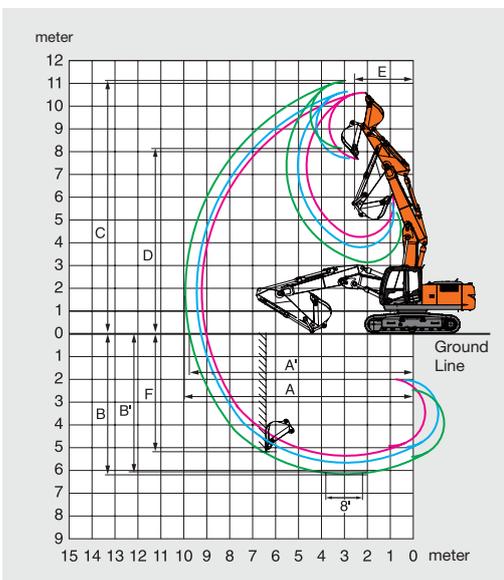
Unit: mm

	ZX210-3	ZX210LC-3	ZX210LCN-3
A Distance between tumblers	3 370	3 660	3 660
B Undercarriage length	4 170	4 460	4 460
* C Counterweight clearance	1 030	1 030	1 020
D Rear-end swing radius	2 750	2 750	2 750
D' Rear-end length	2 750	2 750	2 740
E Overall width of upperstructure	2 710	2 710	2 480
F Overall height of cab	2 950	2 950	2 950
* G Min. ground clearance	450	450	450
H Track gauge	2 200	2 390	1 980
I Track shoe width	G 600	G 600	G 500
J Undercarriage width	2 800	2 990	2 480
K Overall width	2 860	2 990	2 500
L Overall length			
With 2.03 m arm	9 570	9 570	9 640
With 2.42 m arm	9 550	9 550	9 620
With 2.91 m arm	9 490	9 490	9 560
M Overall height of boom			
With 2.03 m arm	3 010	3 010	3 010
With 2.42 m arm	3 060	3 060	3 060
With 2.91 m arm	2 910	2 910	2 910
N Track height with triple grouser shoes	920	920	920

\* Excluding track shoe lug      G: Triple grouser shoe

## WORKING RANGES

Unit: mm



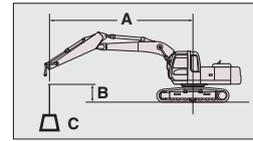
Arm length	ZX210-3 / ZX210LC-3 / ZX210LCN-3		
	2-piece boom		
	2.03 m	2.42 m	2.91 m
A Max. digging reach	9 280	9 500	10 000
A' Max. digging reach (on ground)	9 090	9 320	9 820
B Max. digging depth	5 420	5 720	6 230
B' Max. digging depth (8' level)	5 300	5 610	6 120
C Max. cutting height	10 590	10 640	11 080
D Max. dumping height	7 670	7 700	8 150
E Min. swing radius	2 700	2 700	2 390
F Max. vertical wall	4 560	4 720	5 280
Bucket digging force** ISO	151 kN (15 400 kgf)		
Bucket digging force** SAE : PCSA	129 kN (13 200 kgf)		
Arm crowd force** ISO	145 kN (14 800 kgf)	133 kN (13 600 kgf)	109 kN (11 100 kgf)
Arm crowd force** SAE : PCSA	134 kN (13 700 kgf)	124 kN (12 700 kgf)	102 kN (10 400 kgf)

Excluding track shoe lug    \*\* At power boost

# LIFTING CAPACITIES

## Metric measure

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

### ZX210-3 MONOBLOCK BOOM

Rating over-front

Rating over-side or 360 degrees

Unit : kg

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m					*6 251	*6 251	*5 880	4 701			*5 955	4 102	6.50
Arm 2.03 m	4.5 m					*7 491	7 005	*6 246	4 575			5 059	3 392	7.27
Counterweight 4 750 kg	3.0 m					*9 244	6 491	6 640	4 370	4 752	3 170	4 593	3 065	7.67
Shoe 600 m	1.5 m							6 431	4 183	4 670	3 095	4 456	2 958	7.75
	0 (Ground)					9 770	6 001	6 311	4 075	4 628	3 056	4 600	3 039	7.54
	-1.5 m					9 788	6 016	6 298	4 063			5 116	3 365	6.99
	-3.0 m			*11 571	*11 571	*8 787	6 144	*6 205	4 197			*6 138	4 177	6.03

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m							*5 451	4 744			*5 478	3 910	6.74
Arm 2.42 m	4.5 m					*6 955	*6 955	*5 901	4 597			4 850	3 252	7.48
Counterweight 4 750 kg	3.0 m					*8 722	6 555	6 654	4 375	4 747	3 161	4 410	2 936	7.87
Shoe 600 m	1.5 m					9 929	6 126	6 418	4 164	4 644	3 066	4 268	2 823	7.95
	0 (Ground)					9 710	5 940	6 268	4 030	4 576	3 003	4 382	2 882	7.74
	-1.5 m			*9 909	*9 909	9 687	5 921	6 227	3 993			4 828	3 159	7.21
	-3.0 m			*12 496	11 444	*9 195	6 023	6 316	4 073			5 930	3 849	6.28
	-4.5 m					*6 488	6 310					*6 077	5 924	4.71

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m							*4 954	4 817			*4 047	3 456	7.32
Arm 2.91 m	4.5 m					*6 274	*6 274	*5 437	4 658	4 881	3 281	*3 993	2 937	8.01
Counterweight 4 750 kg	3.0 m					*8 079	6 700	*6 294	4 426	4 771	3 180	4 023	2 677	8.37
Shoe 600 m	1.5 m					*9 717	6 218	6 455	4 193	4 648	3 067	3 903	2 579	8.45
	0 (Ground)			*4 848	*4 848	9 736	5 957	6 272	4 030	4 556	2 982	3 988	2 621	8.25
	-1.5 m	*5 484	*5 484	*9 103	*9 103	9 651	5 885	6 194	3 960	4 527	2 956	4 331	2 836	7.76
	-3.0 m	*9 973	*9 973	*13 611	11 285	*9 670	5 944	6 231	3 993			5 137	3 347	6.90
	-4.5 m			*10 626	*10 626	*7 669	6 148					*5 899	4 666	5.52

### ZX210LC-3 MONOBLOCK BOOM

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m					*6 251	*6 251	*5 880	5 226			*5 955	4 566	6.50
Arm 2.03 m	4.5 m					*7 491	*7 491	*6 246	5 098			5 756	3 786	7.27
Counterweight 4 750 kg	3.0 m					*9 244	7 313	*6 955	4 889	5 413	3 546	5 232	3 429	7.67
Shoe 600 m	1.5 m							7 389	4 698	5 329	3 469	5 082	3 315	7.75
	0 (Ground)					*10 705	6 810	7 264	4 588	5 286	3 430	5 253	3 411	7.54
	-1.5 m					*10 168	6 825	7 251	4 576			5 853	3 777	6.99
	-3.0 m			*11 571	*11 571	*8 787	6 957	*6 205	4 712			*6 138	4 689	6.03
	-4.5 m													

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m							*5 451	5 272			*5 478	4 351	6.74
Arm 2.42 m	4.5 m					*6 955	*6 955	*5 901	5 122			*5 500	3 630	7.48
Counterweight 4 750 kg	3.0 m					*8 722	7 381	*6 660	4 895	5 410	3 537	5 024	3 288	7.87
Shoe 600 m	1.5 m					*10 148	6 940	7 378	4 680	5 304	3 441	4 870	3 168	7.95
	0 (Ground)					*10 637	6 748	7 223	4 543	5 234	3 377	5 009	3 240	7.74
	-1.5 m			*9 909	*9 909	*10 318	6 729	7 180	4 506			5 528	3 554	7.21
	-3.0 m			*12 496	*12 496	*9 195	6 834	6 765	4 587			*6 302	4 330	6.28
	-4.5 m					*6 488	6 488					*6 077	*6 077	4.71

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5				meter
Boom 5.68 m	6.0 m							*4 954	*4 954			*4 047	3 848	7.32
Arm 2.91 m	4.5 m					*6 274	*6 274	*5 473	5 185	*5 107	3 660	*3 993	3 282	8.01
Counterweight 4 750 kg	3.0 m					*8 079	7 532	*6 294	4 948	5 435	3 557	*4 103	3 001	8.37
Shoe 600 m	1.5 m					*9 717	7 036	*7 119	4 711	5 310	3 443	*4 381	2 898	8.45
	0 (Ground)			*4 848	*4 848	*10 525	6 767	7 228	4 544	5 215	3 356	4 558	2 950	8.25
	-1.5 m	*5 484	*5 484	*9 103	*9 103	*10 490	6 693	7 147	4 473	5 185	3 329	4 956	3 193	7.76
	-3.0 m	*9 973	*9 973	*13 611	13 094	*9 670	6 753	*7 176	4 506			5 890	3 767	6.90
	-4.5 m			*10 626	*10 626	*7 669	6 964					8 396	5 253	5.52

## ZX210LCN-3 MONOBLOCK BOOM

 Rating over-front

 Rating over-side or 360 degrees

Unit : kg

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
														
Boom 5.68 m	6.0 m					*6 281	*6 281	*5 883	4 698			*5 955	4 041	6.57
Arm 2.03 m	4.5 m					*7 581	6 917	*6 283	4 568			*5 892	3 358	7.34
Counterweight 5 500 kg	3.0 m					*9 418	6 405	*7 023	4 362	5 674	3 187	5 410	3 041	7.74
Shoe 500 m	1.5 m							*7 695	4 175	5 585	3 109	5 259	2 937	7.82
	0 (Ground)					*10 877	5 934	7 608	4 068	5 537	3 066	5 435	3 016	7.61
	-1.5 m					*10 311	5 952	7 594	4 066			6 046	3 330	7.06
	-3.0 m			*11 710	11 271	*8 907	6 076	*6 363	4 179			*6 138	4 107	6.01
	-4.5 m													

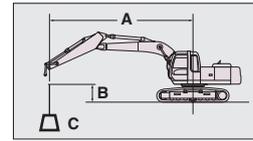
Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
														
Boom 5.68 m	6.0 m							*5 456	4 738			*5 478	3 855	6.81
Arm 2.42 m	4.5 m					*7 028	7 001	*5 933	4 589	*5 501	3 258	*5 500	3 221	7.55
Counterweight 5 500 kg	3.0 m					*8 874	6 468	*6 722	4 366	5 670	3 176	5 197	2 914	7.94
Shoe 500 m	1.5 m					*10 343	6 047	*7 473	4 155	5 560	3 079	5 043	2 804	8.02
	0 (Ground)					*10 819	5 870	7 566	4 023	5 487	3 014	5 186	2 861	7.81
	-1.5 m			*9 559	*9 559	*10 473	5 856	7 523	3 986			5 716	3 129	7.28
	-3.0 m			*12 683	11 049	*9 325	5 956	*6 874	4 062			*6 302	3 791	6.35
	-4.5 m					*6 614	6 230					*6 077	5 746	4.78

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
														
Boom 5.68 m	6.0 m							*4 956	4 808			*4 047	3 417	7.39
Arm 2.91 m	4.5 m					*6 328	*6 328	*5 499	4 649	*5 115	3 297	*3 993	2 915	8.08
Counterweight 5 500 kg	3.0 m					*8 207	6 612	*6 349	4 416	*5 476	3 194	*4 103	2 662	8.44
Shoe 500 m	1.5 m					*9 900	6 136	*7 201	4 184	5 566	3 080	*4 381	2 566	8.52
	0 (Ground)			*4 514	*4 514	*10 713	5 885	7 571	4 022	5 469	2 994	4 726	2 608	8.32
	-1.5 m	*5 426	*5 426	*8 804	*8 804	*10 659	5 819	7 490	3 954	5 437	2 966	5 134	2 815	7.83
	-3.0 m	*9 865	*9 865	*13 855	10 893	*9 813	5 878	*7 275	3 985			*5 903	3 309	6.97
	-4.5 m			*10 797	*10 797	*7 788	6 075					*5 899	4 566	5.59

# LIFTING CAPACITIES

## Metric measure

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

### ZX210-3 2-PIECE BOOM

Rating over-front

Rating over-side or 360 degrees

Unit : kg

Conditions	Load point height	Load radius										At max. reach				
		1.5		3.0		4.5		6.0		7.5				meter		
2-Piece Boom	9.0 m													*11 812	*11 812	2.56
Arm 2.03 m	7.5 m					*7 398	7 398							*6 657	5 898	5.17
Counterweight	6.0 m			*7 947	7 947	*7 395	7 395	*6 206	4 744					*5 472	4 075	6.48
4 750 kg	4.5 m			*10 924	10 924	*8 461	7 331	*6 369	4 789					*4 994	3 347	7.25
Shoe 600 m	3.0 m			*12 514	12 514	*10 091	7 167	6 827	4 678	4 748	3 124			4 586	3 012	7.65
	1.5 m			*14 734	12 818	10 176	6 967	6 729	4 474	4 673	3 055			4 446	2 903	7.73
	0 (Ground)	*11 097	11 097	*16 471	11 978	*10 258	6 534	6 559	4 242	4 607	2 994			4 595	2 987	7.52
	-1.5 m	*19 564	19 564	*16 723	11 691	10 215	6 298	6 386	4 087					*5 018	3 322	6.97
	-3.0 m	*29 453	29 453	*15 218	11 751	*9 217	6 167							*5 136	4 353	5.77

Conditions	Load point height	Load radius										At max. reach				
		1.5		3.0		4.5		6.0		7.5				meter		
2-Piece Boom	9.0 m			*9 084	*9 084									*8 694	*8 694	3.19
Arm 2.42 m	7.5 m					*6 865	*6 865							*5 893	5 436	5.50
Counterweight	6.0 m					*6 982	*6 982	*5 803	4 850					*4 970	3 866	6.74
4 750 kg	4.5 m			*11 542	*11 542	*7 922	7 333	*6 059	4 865					*4 590	3 197	7.49
Shoe 600 m	3.0 m			*12 969	*12 762	*9 737	7 173	*6 716	4 738	4 785	3 153			4 387	2 875	7.87
	1.5 m			*14 641	*12 681	10 113	7 054	6 700	4 504	4 681	3 057			4 242	2 759	7.95
	0 (Ground)	*12 345	*12 345	*16 257	12 065	*10 149	6 567	6 562	4 238	4 572	2 957			4 357	2 819	7.74
	-1.5 m	*18 413	*18 413	*16 548	11 648	10 191	6 268	6 342	4 040					4 810	3 099	7.21
	-3.0 m	*24 611	*24 611	*15 840	11 586	*9 788	6 063	*5 589	4 021					*4 640	3 821	6.25
	-4.5 m															

Conditions	Load point height	Load radius										At max. reach				
		1.5		3.0		4.5		6.0		7.5				meter		
2-Piece Boom	9.0 m													*5 426	*5 426	4.30
Arm 2.91 m	7.5 m					*6 088	6 088	*5 066	4 822					*4 432	*4 432	6.20
Counterweight	6.0 m					*6 219	6 219	*5 431	4 990					*4 096	3 410	7.32
4 750 kg	4.5 m			*8 240	8 240	*7 319	7 319	*5 714	4 935	*4 789	3 303			*4 010	2 883	8.01
Shoe 600 m	3.0 m	*10 980	10 980	*13 613	12 843	*9 102	7 176	*6 341	4 793	4 876	3 248			4 000	2 618	8.37
	1.5 m	*8 834	8 834	*14 176	12 664	*10 113	6 963	*6 698	4 622	4 759	3 127			3 876	2 518	8.45
	0 (Ground)	*11 176	11 176	*15 792	12 329	*10 083	6 674	6 593	4 347	4 614	2 993			3 963	2 560	8.25
	-1.5 m	*15 159	15 159	*16 399	11 724	10 257	6 319	6 397	4 086	4 523	2 909			4 311	2 777	7.76
	-3.0 m	*19 211	19 211	*16 471	11 581	9 965	6 071	6 273	3 975					*4 411	3 295	6.91
	-4.5 m	*20 979	20 979	*12 128	11 611	*6 770	6 107							*6 594	5 976	4.57

### ZX210LC-3 2-PIECE BOOM

Conditions	Load point height	Load radius										At max. reach				
		1.5		3.0		4.5		6.0		7.5				meter		
2-Piece Boom	9.0 m													*11 814	*11 814	2.56
Arm 2.03 m	7.5 m					*7 401	*7 401							*6 660	6 581	5.17
Counterweight	6.0 m			*7 949	*7 949	*7 399	*7 399	*6 210	5 284					*5 476	4 554	6.48
4 750 kg	4.5 m			*10 932	*10 932	*8 467	8 043	*6 374	5 330					*4 998	3 754	7.25
Shoe 600 m	3.0 m			*12 526	*12 526	*10 101	7 895	*7 051	5 218	*5 414	3 512			*4 844	3 389	7.65
	1.5 m			*14 747	14 223	*10 581	7 825	*7 541	5 010	5 351	3 442			*4 925	3 274	7.73
	0 (Ground)	*11 098	*11 098	*16 485	13 863	*10 599	7 381	7 546	4 775	5 283	3 381			*5 255	3 372	7.52
	-1.5 m	*19 565	*19 565	*16 737	13 560	*10 823	7 138	7 367	4 617					*5 025	3 750	6.97
	-3.0 m	*29 452	*29 452	*15 230	13 621	*9 227	7 004							*5 144	4 916	5.77

Conditions	Load point height	Load radius										At max. reach				
		1.5		3.0		4.5		6.0		7.5				meter		
2-Piece Boom	9.0 m			*9 085	*9 085									*8 696	*8 696	3.19
Arm 2.42 m	7.5 m					*6 869	*6 869							*5 896	*5 896	5.50
Counterweight	6.0 m					*6 985	*6 985	*5 807	5 394					*4 974	4 320	6.74
4 750 kg	4.5 m			*11 550	*11 550	*7 927	*7 927	*6 064	5 373					*4 594	3 587	7.49
Shoe 600 m	3.0 m			*12 980	*12 980	*9 745	7 858	*6 722	5 240	*5 328	3 542			*4 484	3 239	7.87
	1.5 m			*14 654	*14 106	*10 479	7 678	7 484	5 042	5 360	3 445			*4 581	3 117	7.94
	0 (Ground)	*12 347	*12 347	*16 271	13 957	*10 497	7 416	7 500	4 772	5 249	3 344			*4 904	3 189	7.74
	-1.5 m	*18 415	*18 415	*16 562	13 518	*10 644	7 109	7 324	4 571					*5 194	3 507	7.21
	-3.0 m	*24 612	*24 612	*15 852	13 452	*9 798	6 898	*5 597	4 552					*4 647	4 321	6.25

## ZX210LC-3 2-PIECE BOOM

Rating over-front

Rating over-side or 360 degrees

Unit : kg

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
2-Piece Boom	9.0 m											*5 428	*5 428	4.30
Arm 2.91 m	7.5 m					*6 091	*6 091	*5 068	*5 068			*4 435	*4 435	6.20
Counterweight	6.0 m					*6 222	*6 222	*5 435	*5 435			*4 098	3 814	7.32
4 750 kg	4.5 m			*8 244	*8 244	*7 323	*7 323	*5 719	5 396	*4 794	3 694	*4 012	3 239	8.01
Shoe 600 m	3.0 m	*10 981	*10 981	*13 624	*13 624	*9 110	7 874	*6 347	*5 267	*5 045	3 639	*4 009	2 953	8.37
	1.5 m	*8 835	*8 835	*14 189	14 061	*10 304	7 725	*7 266	5 106	*5 401	3 516	*4 085	2 848	8.45
	0 (Ground)	*11 177	*11 177	*15 794	14 165	*10 454	7 527	7 448	4 883	5 293	3 381	*4 340	2 901	8.25
	-1.5 m	*15 160	*15 160	*16 413	13 600	*10 526	7 162	7 382	4 618	5 200	3 296	*4 856	3 146	7.76
	-3.0 m	*19 212	*19 212	*16 483	13 448	*10 428	6 908	*6 910	4 505			*4 418	3 728	6.91
	-4.5 m	*20 980	*2 098	*12 140	*12 140	*6 779	*6 779					*6 603	*6 603	4.57

## ZX210LCN-3 2-PIECE BOOM

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
2-Piece Boom	9.0 m											*11 814	*11 814	2.63
Arm 2.03 m	7.5 m					*7 451	*7 451					*6 660	5 725	5.24
Counterweight	6.0 m			*7 766	*7 766	*7 482	7 408	*6 232	4 741			*5 476	4 002	6.55
5 500 kg	4.5 m			*11 008	*11 008	*8 612	7 255	*6 439	4 779			*4 998	3 304	7.32
Shoe 500 m	3.0 m			*12 750	*12 457	*10 253	7 078	*7 155	4 669	*5 571	3 143	*4 844	2 981	7.72
	1.5 m			*14 966	12 273	*10 753	6 858	7 797	4 465	5 610	3 069	*4 925	2 875	7.80
	0 (Ground)	*10 934	*10 934	*16 900	11 494	*10 780	6 434	*7 854	4 232	5 534	3 002	*5 255	2 957	7.59
	-1.5 m	*19 212	*19 212	*17 170	11 235	*11 008	6 212	7 712	4 077			*5 025	3 279	7.04
	-3.0 m	*28 531	*28 531	*15 632	11 306	*9 445	6 085					*5 144	4 261	5.84

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
2-Piece Boom	9.0 m			*9 200	*9 200							*8 696	*8 696	3.26
Arm 2.42 m	7.5 m					*6 927	*6 927					*5 896	5 290	5.57
Counterweight	6.0 m					*7 056	*7 056	*5 845	4 841			*4 974	3 801	6.81
5 500 kg	4.5 m			*11 644	*11 644	*8 052	7 254	*6 126	4 853	*4 751	3 203	*4 594	3 158	7.56
Shoe 500 m	3.0 m			*13 131	*12 439	*9 911	7 094	*6 818	4 727	*5 389	3 170	*4 484	2 847	7.94
	1.5 m			*14 901	12 382	*10 661	6 941	*7 693	4 495	5 620	3 070	*4 581	2 735	8.02
	0 (Ground)	*12 100	*12 100	*16 653	11 569	*10 676	6 463	*7 745	4 228	5 504	2 968	*4 904	2 792	7.81
	-1.5 m	*18 078	*18 078	*17 000	11 187	*10 823	6 182	7 667	4 028			*5 194	3 062	7.28
	-3.0 m	*24 096	*24 096	*16 274	11 146	*9 990	5 978	*5 816	4 002			*4 647	3 753	6.32

Conditions	Load point height	Load radius										At max. reach		
		1.5		3.0		4.5		6.0		7.5		meter		
2-Piece Boom	9.0 m											*5 428	*5428	4.37
Arm 2.91 m	7.5 m					*6 090	*6 090	*5 176	4 817			*4 435	4 431	6.27
Counterweight	6.0 m					*6 214	*6 214	*5 475	4 971			*4 098	3 363	7.39
5 500 kg	4.5 m			*8 245	*8 245	*7 424	7 292	*5 775	4 916	*4 844	3 321	*4 012	2 854	8.08
Shoe 500 m	3.0 m	*9 230	*9 230	*13 741	12 509	*9 311	7 093	*6 432	4 775	*5 087	3 261	*4 009	2 597	8.44
	1.5 m	*8 030	*8 030	*14 414	12 338	*10 486	*6 877	*7 395	4 636	*5 475	3 141	*4 085	2 500	8.52
	0 (Ground)	*10 863	*10 863	*16 122	11 816	*10 632	6 567	*7 690	4 337	5 551	3 005	*4 340	2 541	8.32
	-1.5 m	*14 854	*14 854	*16 848	11 255	*10 707	6 221	7 729	4 076	5 449	2 915	*4 856	2 750	7.83
	-3.0 m	*18 816	*18 816	*16 901	11 126	*10 636	5 992	*7 072	3 962			*4 418	3 249	6.98
	-4.5 m	*20 439	*20 439	*12 466	11 166	*7 000	6 018					*6 603	5 768	4.64

## STANDARD EQUIPMENT

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

### ENGINE

- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction indicator)
- Cartridge-type engine oil filter
- Cartridge-type 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
- Control valve with main relief valve
- 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
- Front windows on upper, lower and left side can be opened
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Fire extinguisher bracket
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch
- Auto control air conditioner
- Transparent roof with slide curtain
- Mechanical suspension seat with heater

### MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc
- 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

### UPPER STRUCTURE

- Undercover
- 4 750 kg counterweight (ZX210-3, ZX210LC-3)
- 5 500 kg counterweight (ZX210LCN-3)
- Fuel level float
- Electric fuel refilling pump with auto stop
- Rear view camera
- 150 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

### UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- 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

### 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

### 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

## OPTIONAL EQUIPMENT

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

### CAB

- Laminated round glass window
- FOPS guard
- Air suspension seat with heater
- Rain guard
- Sun visor
- 12 V power source

### LIGHTS

- Additional cab roof front lights
- Additional cab roof rear lights
- Rotating lamp
- Additional boom light with cover

### UNDERCARRIAGE

- 2 track guards
- Track undercover

### ATTACHMENTS

- Hammer and crusher piping
- Parts for hammer and crusher
- 2 pump combined flow assist piping
- Additional pump (30 L/min)
- Pilot accumulator
- High mesh full flow filter with restriction indicator
- Welded bucket link A with welded hook

### OTHERS

- Hose rupture valve
- Overload warning device
- Pre-cleaner
- 5 350 kg heavy counterweight (ZX210-3, ZX210LC-3)
- Biodegradable oil
- Louver cover  
*Designed to increase ventilation*



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



Prior to operating this machine, including satellite communication system, in a country other than a country of its intended use, it may be necessary to make modifications to it so that it complies with the local regulatory standards (including safety standards) and legal requirements of that particular country. Please do not export or operate this machine outside the country of its intended use until such compliance has been confirmed. Please contact your Hitachi dealer in case of questions about compliance.

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 colour and features. Before use, read and understand the Operator's Manual for proper operation.