

"Earning more profits, keeping business up and achieving life value" are the eternal pursuit of customers, so the excavator us to realize the dream should be a productive, safe and reliable machine offering high profit, comfortable experience and costefficient and easy maintenance in any condition.

Now a new generation of the "powerful and economical" ZAXIS-5 series hydraulic excavators bearing these expectations are being presented to you, and we're sure that their comprehensive specification and impressive performance will help you explore your wonderful future and make your dream come true.

### More Production with Less Fuel · Environmental-friendly Economical and efficient performance

- New eco-friendly engine with low fuel consumption and high power
- HITACHI HIOS III hydraulic system adopted to increase operating speed effectively
- Fuel efficiency increased by 16% in the ECO mode ■ Digging force increased by 10% with power boosting device
- Attachment support system for enhanced operation efficiency

### Durability and Reliability P6-7

### Powerful and durable configura tion

- Flat-bottom bucket with excellent durability
- X-beam frame with integrated welded structure
- D-section frame adopted and damage Neutral engine start system prevention plate added for upperstructure

### Comfort and Safety · Convenient Operation P8-9 Easy Maintenance P10-11 Multi-function Monitor & e-Service P12-13

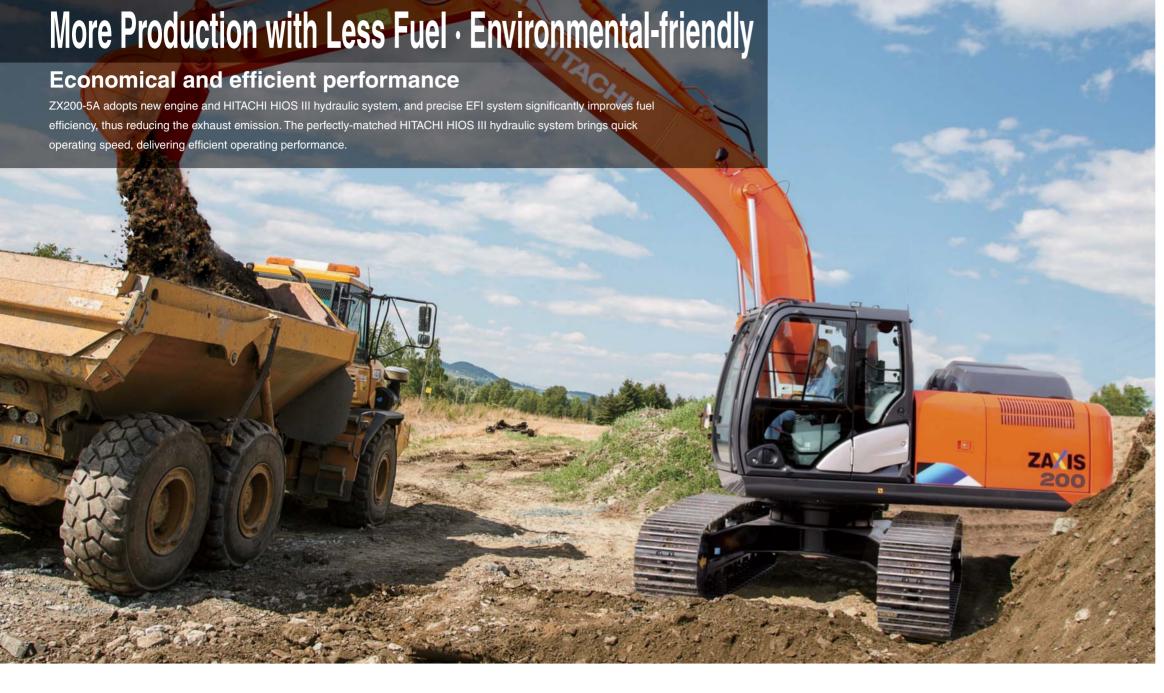
### Comfortable and safe operating space makes operation fun and enjoyable

- New engine with high reliability and durability Ample operating space and excellent visibility
  - Suspension seat as a standard feature
  - Cab with center pillar reinforced structure

- Easy daily maintenance
- Easier cleaning around the engine e-Service Owner's site
- SC painting protecting the ConSite surface from dirty

- New multi-function monitoring system







#### New Eco-friendly Engine with Low Fuel Consumption and High Power

**EFFICIENCY AND ECOLOGY** 

The genuine imported new engine with rated power of 113kW adopts high-pressure common rail electronic control fuel injection system and cooled EGR system, which delivers high power and low fuel consumption with its exhaust emission conforming to national stage III emission regulation.

- ■High-pressure common rail electronic control fuel injection system: It adopts high-pressure common rail and precisely controls the injection timing and injection quantity through electronic control for complete combustion of fuel, thus significantly improving fuel efficiency and reducing fuel consumption and emissions of exhausts such as black smoke etc.
- ■The cooled EGR system: It enables post-combustion of partial exhaust from the first combustion mixed with intake air, ensuring high power and reducing the emissions of air pollutants.

#### **High capacity bucket**

Equipped with 0.91m³ H bucket with high capacity as a standard feature (ZX210LC-5A equipped with 1.0m³ H bucket as a standard feature) to fully demonstrate its superior efficiency in applications involving heavy dumping or loading operation.

#### Power mode

PWR mode producing more with less time and fuel-saving ECO mode are available. Compared with PWR mode of conventional ZX200-5G, fuel efficiency in PWR and ECO mode of ZX200-5A is increased by 10% and 16% respectively (values obtained from test conducted by HITACHI).

#### Digging Force Increased by 10% with Power Boosting Device

Spurred by the power boosting device, the digging force will instantly increase by 10%. The operator can feel the evident difference during excavation work, making it particularly suitable for digging hard foundations.

#### **Attachment Support System**

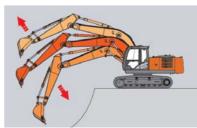
Valve switching and flow setting can be done by using the multifunction monitor, thus enhancing operation efficiency. In addition, the multi-function monitor displays operating hours of the breaker, which is convenient to determine replacement timing for hydraulic oil and filters

#### Swift Front Movements with HIOS III Hydraulic System

The new hydraulic system features a hydraulic boosting system and boom recirculation system based on the original hydraulic system, its efficient and precise hydraulic control enhances the work speed and enables quick and smooth combined operation. Whether for digging or loading operation, the machine can be operated easily.

\*HIOS: Human & Intelligent Operation System

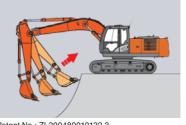
### Boom Recirculation System (Patented by HITACHI)



(Patent No.: ZL200480002169.5,

When the boom is lowered, hydraulic oil recirculates within the boom circuit assisted by boom weight. Therefore, the system delivers more pressure oil from the pump to the arm, thus significantly increasing arm speed during combined operation of arm and boom lowering. This feature will bring significant effect to the truck loading work.

### Hydraulic Boosting System (Patented by HITACHI)



(Patent No.: ZL200480010122.3, patent classification: invention patent

The pressure oil which returns from the boom cylinder will be used to accelerate operation of the arm. This design significantly increases the arm roll-in speed.





# **Durability and Reliability**

### Powerful and durable configuration

DURABILITY

The service life of machine is closely connected with customers' profit. ZX200-5A is equipped with high quality new engine with a rugged design. It also adopts structural components with reinforced designs and HITACHI patented technologies in many places to further improve durability, ensuring that the machine can operate steadily for a long time.



### New Engine with High Reliability and Durability

The new 5A engine developed with the concept of high durability and high output features a rugged design. The reinforced core components and optimized fuel circuit as well as multiple stage fuel filtration system allow the engine to deliver good performance. The advanced cooling system ensures engine in good running condition, and expansion tank enhances the exhaust performance of cooling circuit. The material with high durability is adopted around the engine, which keeps well cooling performance for a long period.









#### 1 New HN Bushing (Patented by HITACHI)

New HN bushings are utilized at joint area of all front attachments for better lubrication and higher durability of front attachments. (Patent No.: ZL03803085.3, patent classification: invention patent)

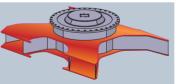
#### WC Thermal Spraying

WC (Tungsten-Carbide) thermal spray is applied on the contact surface of the connection between the arm and the bucket, delivering significant reduction in wear of the contact surface and rattling.

#### 3 Welded link A

#### 4 Flat-Bottom Bucket with Excellent Durability

0.91 m³ flat-bottom bucket with high capacity is equipped as a standard feature (ZX210LC-5A equipped with 1.0m³ bucket as a standard feature) and the reinforced plates at bottom and side of bucket use wear plates with high performance, significantly enhancing the bucket durability.



### 5 X-beam Frame with Integrated Welded Structure

Strength and stability of undercarriage are improved for higher durability.



### 6 Integrated Idler and Adjuster (Middle Left Picture)

Prevents idlers from sliding.

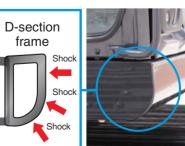


#### 7 Strengthened Travel Motor Bracket

The travel motor bracket's upper and lower plates have been lengthened to improve stress distribution and weld stability.

#### 8 Track guides

It can effectively protect lower rollers and prevent track from detaching lower rollers during steering.



#### 9 D-section frame

The D-section frame for upperstructure is designed to withstand fierce external shocks.







#### **More Comfort and Safety Features**





Large overhead windo

Engine shut-off lever





acuation hammer

Travel direction mari





Control panel

I ED room ligh





Large storage space

Glove compartme

#### **Ample Operating Space and Excellent Visibility**

ZX200-5A's cab offers plenty of legroom and excellent visibility. The height and width of cab entry are increased for improving ease of entry, and the legroom is ample. Front glass window has a great area, and large area glasses are used at the right side and lower side of the cab door for better visibility. Monitor switch and air conditioner switch etc. are concentrated on the right console for easier operation. Ample air conditioner vents are located reasonably for smooth and uniform air circulation inside the cab.

#### **Comfortable Suspension Seat**

A suspension seat is provided as a standard feature, thus alleviating operation fatigue. The seat can be freely reclined and slid forward and backward. New slide rails are adopted to achieve less rattling. The cab rests on fluid-filled elastic mounts that absorb shocks and vibration to enhance operator comfort. The new pressurized cab keeps dust and particles from entering.

#### **Robust Cab**

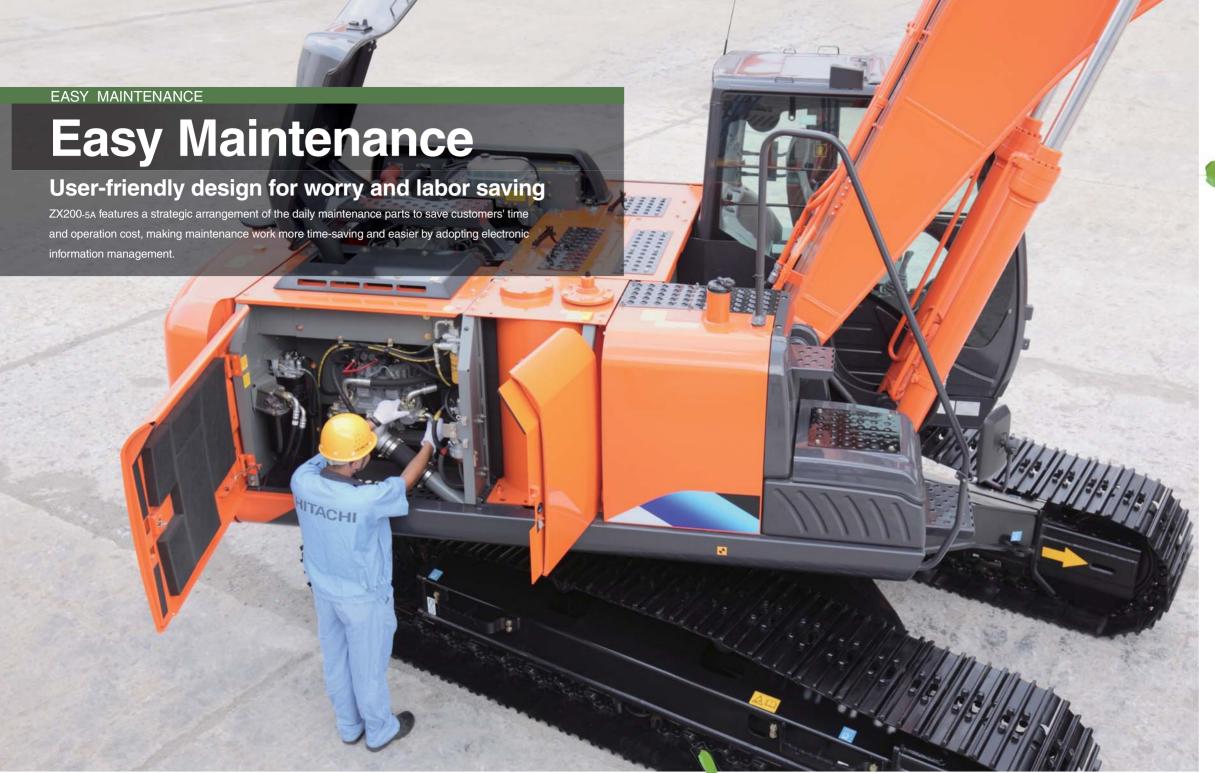
The machine features a cab with center pillar reinforced structure A neutral engine start system is employed, which eliminates the risk of misoperation at the time of the operator getting on and off the machine to avoid possible dangers.





Cab with center pillar reinforced structure

Neutral engine start syste











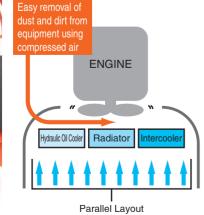


1 Fuel main filter 3 Pilot filter

2 Engine oil filter 4 Fuel pre-filter

5 Electric fuel pump 7 Expansion 6 Fuel tank water

Insect-proof net



#### **Easy Daily Maintenance**

Fuel main filter, fuel pre-filter, pilot filter, engine oil filter and electric fuel pump are concentrated inside the pump compartment. The fuel tank water drainage valve and engine oil discharge port are placed at convenient locations for daily drainage of water and engine oil. Water draining from the fuel tank and replacement of filters etc. are readily accessible from ground level. With the expansion tank and fully-sealed cooling circuit, there is no need to refill the coolant frequently. The fuel tank has a large cleaning port at the bottom, which effectively keeps fuel clean and simplifies inspection work. Plenty slipresistant plates are positioned for safer maintenance.

#### **Long Maintenance Period**

- · Engine oil and engine oil filter: 500 h · Hydraulic oil filter: 1,000 h
- · Hydraulic oil: 5,000 h
- · Fuel filter: 1.000 h

#### Easier cleaning around the engine

The hydraulic oil cooler, radiator and intercooler are laid out in parallel for easier cleaning around the engine. The air condenser is openable to simplify cleaning. The insect-proof net of a lockable design is placed at the external side of the air condenser and fuel cooler, which is convenient for dismounting and mounting work. The radiator which is equipped with a cover for cleaning on the top can be cleaned by blowing in compressed air.

#### **Easier Greasing for Adjuster**

Adjuster greasing ports are repositioned for easier lubrication, and well protected from muck build-up and blockage.

#### SC (Self Cleaning) Painting

The hydrophilic coating makes it hard for any dirt to adhere to the surface; even dirt adherence does happen, the dirt can be easily removed.











Multi-function Monitor & e-Service

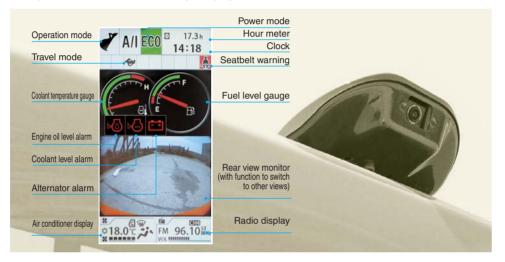
## **Multi-function Monitor & e-Service**

Advanced machine management solution



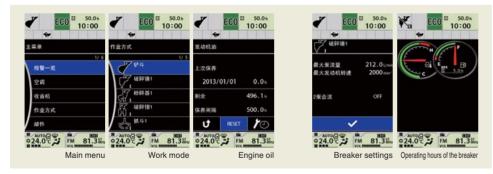
#### **Multi-function monitoring system**

The new multi-function monitoring system comprises a 7-inch high-resolution color display and a multi-function controller. Menu items can be selected by the multi-function controller on the control panel. The color LCD panel is easily visible even in the daylight. The brightness of the screen can be switched between daytime mode and nighttime mode using the '0' on the ten-key touchpad. A rear view camera always displays the view behind the machine.



#### **Attachment Replacing Support System and Breaker Hour Meter**

The operator can change over valves, adjust circuit flow, and check settings from the multi-function monitor. In addition, an extra hour meter on the multi-function monitor displays operating hours of the breaker, suggesting appropriate replacement timing for oil and filters.



### **Multiple Languages Support**

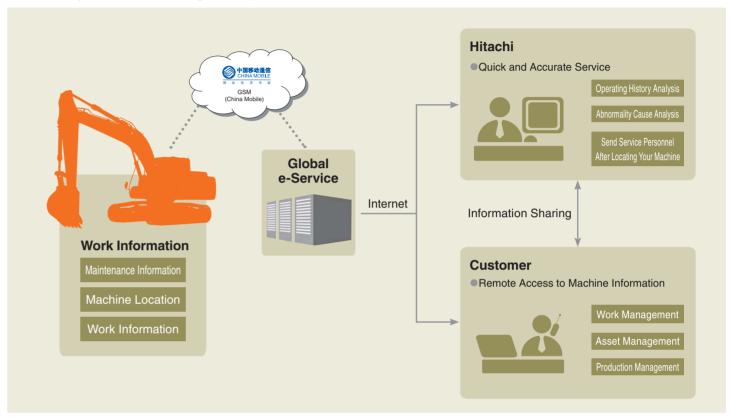
The new ZAXIS is programmed with 32 languages, making it possible to work in the language appropriate to the region in question in the event that the machine is transported to other countries.

Dansk		Deutsch		
Eesti	繁體中文	Nederlands	EG0 <sup>□</sup> 50.0h	
tesa	한국어	NeGenands	A/I A/S 💝	
Polskii	101601751555-0	Русский	Language/言語	
slenska	Bahasa Indonesia	Português	1/3	
Hrvatski	กามาไทย		■ English	
Hrvatski	Tiếng Việt	Suomi		
Slovenščina		Ελληνικά	田 日本語	
limba romānā	<del>∏</del>	Svenska	III Español	
	اللعة العربية	CONTROL .	III Italiano	
Български език	اللغة القارسية	Norsk		
Lietuvių kalba		简体中文	☐ Français	
	Türkçe		024.0t × 81.3E	

## **Remote Maintenance Management of Machine Information**

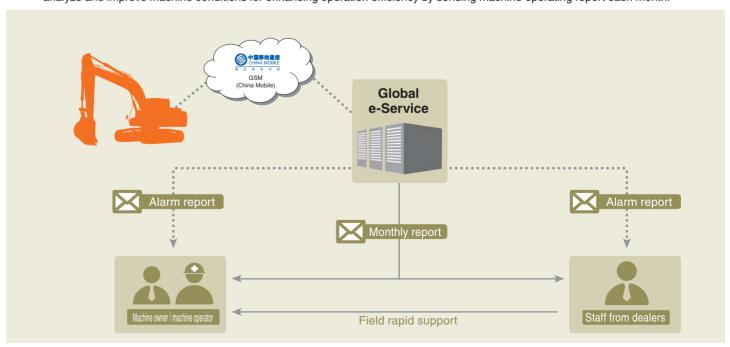
e-Service Owner's Site

The onboard "e-Service Owner's site", assisted by a powerful information network, has led preventive servicing management to a new era of electronic information. HITACHI provides customers with shared machine information that is to be used as the judging factor for periodic inspection and maintenance. In case of machine abnormality, fault diagnosis can be made from alert information to find the cause. Also, technical personnel can be sent for field service timely. This contributes to quick and accurate service that reduces operational downtime caused by machine fault, ensuring normal operation of machine.



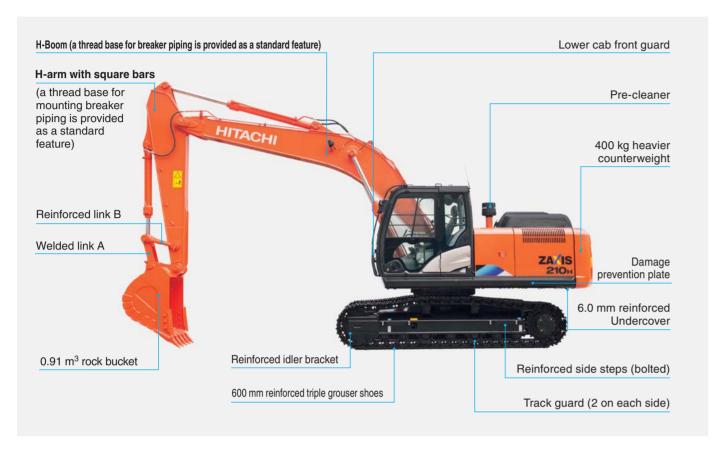
#### ConSite

ConSite is a comprehensive response service system for construction site, which is developed based on Global e-Service platform. This system can monitor the operating state of machine remotely for 24 hours and send 'alarm report' and 'monthly report', which allows the customer to understand and control the daily operating state of machine timely, thus maximizing the utilization efficiency of machine. 'Alarm report' reduces the rate of failure occurrence and downtime by sending alarm notification at real time. 'Monthly report' helps analyze and improve machine conditions for enhancing operation efficiency by sending machine operating report each month.



### **Various versions**

## ZAXIS210H



## ZAXIS210<sub>LC</sub>



### **Technical specifications**



ENGINE	
Model	ISUZU GI-4HK1XKSA-02
Туре	4-cycle water-cooled, electric-controlled direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	4
Rated power	
ISO 9249, net	113 kW (154 PS) at 2,000 min-1 (rpm)
SAE J1349, net	113 kW (154 PS) at 2,000 min-1 (rpm)
Maximum torque	638 Nm (65 kgfm) at 1,500 min-1 (rpm)
Piston displacement	5.193 L
Bore × stroke	115 mm × 125 mm
Batteries	2 × 12 V/88 Ah

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Hyd	Pall I	li a	12	77-3	7	20
B NA.	HE CUL	11.77	r-1	'A-1	1,-1	

Hydraulic	Pumps
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#### **Hydraulic Motors**

#### **Relief Valve Settings**

 Implement circuit
 34.3 MPa (350 kgf/cm²)

 Swing circuit
 32.3 MPa (330 kgf/cm²)

 Travel circuit
 34.3 MPa (350 kgf/cm²)

 Pilot circuit
 3.9 MPa (40 kgf/cm²)

 Power boost
 38.0 MPa (387 kgf/cm²)

#### **Hydraulic Cylinders**

	Quantity	Bore	Rod diameter
Boom	2	120 mm	85 mm
Arm	1	135 mm	95 mm
Bucket	1	115 mm	80 mm

#### UPPERSTRUCTURE

#### **Revolving Frame**

D-section frame 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 of a spring-set/hydraulic-released disc type.

#### Cab

Independent spacious cab, 1,005 mm wide by 1,675 mm high, conforming to ISO $^{\star}$  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	7: ZX200-5A/ZX210H-5A
	8: ZX210LC-5A
Track shoes	46: ZX200-5A/ZX210H-5A
	49: ZX210LC-5A
Track guides	1: ZX200-5A/ZX210LC-5
	2. 7X210H-5A

#### **Travel Device**

Each track is driven by 2-speed axial piston motor. Parking brake is of a spring-set/hydraulic-released disc type.

Low: 0 to 3.5 km/h

Maximum traction force ... 203 kN (20,700 kgf)

Gradeability ...... 70%(35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	400.0 L
Engine coolant	31.0 L
Engine oil	23.0 L
Swing device	6.2 L
Travel device (each side)	6.8 L
Hydraulic system	240.0 L
Hydraulic oil tank	135.0 L

#### **BUCKET AND ARM DIGGING FORCES**

Arm length	2.91 m
Maximum bucket digging force* ISO	158 kN (16,200 kgf)
Maximum bucket digging force* SAE: PCSA	141 kN (14,400 kgf)
Maximum arm crowd force* ISO	114 kN (11,600 kgf)
Maximum arm crowd force* SAE: PCSA	110 kN (11,200 kgf)

<sup>\*</sup> At power boost

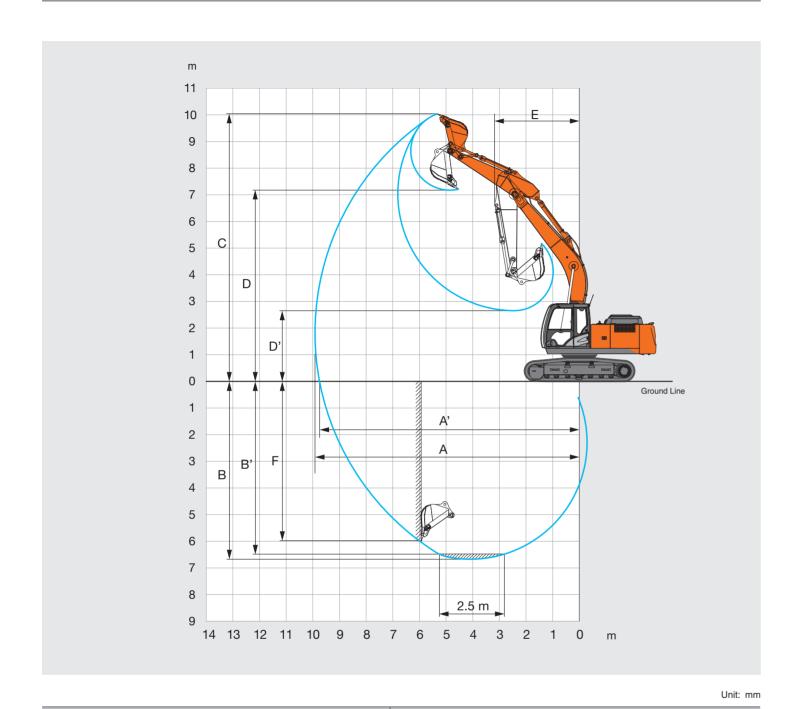
#### **WEIGHTS AND GROUND PRESSURE Bucket capacity** Track shoe width Arm length Bucket weight Counterweight Operating weight Ground pressure (ISO heaped) ZX200-5A 600 mm 2.91 m 0.91 m<sup>3</sup> H type 823 kg 3,859 kg 20,200 kg 45 kPa (0.46 kgf/cm2) ZX210LC-5A 600 mm 2.91 m 1.0 m<sup>3</sup> H type 873 kg 4,259 kg 21,000 kg 43 kPa (0.44 kgf/cm<sup>2</sup>) ZX210H-5A 600 mm 0.91 m<sup>3</sup> rock bucket 4,259 kg 21,200 kg 47 kPa (0.48 kgf/cm<sup>2</sup>)

HITACHI ZX200-5A Excavator www.wme.cn/hitachi-zx200-5a/

## **Technical specifications**

## ZAXIS 梦想

### **WORKING RANGES**



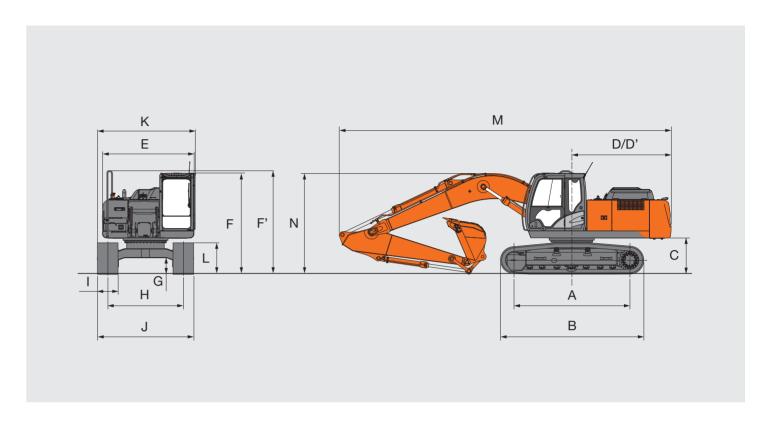
Arm length	2.91 m
A Max. digging reach	9,920
A' Max. digging reach (on ground)	9,750
B Max. digging depth	6,670
B' Max. digging depth for 2.5 m level	6,490
C Max. cutting height	10,040
D Max. dumping height	7,180
D' Min. dumping height	2,650
E Min. swing radius	3,180

5,990

Excluding track shoe lug

F Max. vertical wall digging depth

### DIMENSIONS



Unit: mm

	ZX200-5A	ZX210LC-5A	ZX210H-5A
A Distance between tumblers	3,370	3,660	3,370
B Undercarriage length	4,170	4,470	4,170
* C Counterweight clearance	1,030	1,030	1,030
D Rear-end swing radius	2,890	2,890	2,890
D' Rear-end length	2,890	2,890	2,890
E Overall width of upperstructure	2,710	2,710	2,770
F Overall height of cab	2,950	2,950	2,950
F' Overall height of upperstructure	3,010	3,010	3,010
* G Min. ground clearance	450	450	450
H Track gauge	2,200	2,390	2,200
I Track shoe width (triple grouser shoe)	600	600	600
J Undercarriage width	2,800	2,990	2,800
K Overall width	2,860	2,990	2,880
* L Track height with triple grouser shoes	920	920	920
M Overall length with 2.91 m arm	9,660	9,660	9,660
N Overall height of boom (with 2.91 m arm)	3,010	3,010	3,010

<sup>\*</sup> Excluding track shoe lug

HITACHI ZX200-5A Excavator www.wme.cn/hitachi-zx200-5a/

## **Equipment**



● : Standard equipment ○ : Optional equipment — : N/A

	ZX200-5A / ZX210LC-5A	ZX210H-5A
ENGINE		
Air cleaner double filters	•	•
Auto idle system	•	•
Integrated engine oil filter	•	•
Integrated fuel pre-filter with water separator	•	•
Integrated fuel main filter	•	•
Electric fuel pump	•	•
Dry-type air filter with evacuator valve (with air filter restriction indicator)	•	•
ECO/PWR mode control	•	•
Engine warm-up device	•	•
Fan guard	•	•
Pre-cleaner	0	•
Insect-proof net	•	•
Expansion tank	•	•
50 A alternator	•	•

Hydraulic system		
Auto power lift	•	•
Control valve with main relief valve	•	•
Full-flow filter	•	•
High performance full flow filter with restriction indicator	0	0
Pilot filter	•	•
Power boost	•	•
Suction filter	•	•
One extra port for control valve	•	•
Work mode selector	•	•
Hose rupture valve	0	0

	ZX200-5A / ZX210LC-5A	ZX210H-5A
Cab		
All-weather sound suppressed steel cab	•	•
AM-FM radio with 2 speakers	•	•
Ashtray	•	•
Auto control air conditioner	•	•
Storage	•	•
Cab (Center pillar reinforced structure)	•	•
Drink holder (hot & cool)	•	•
Electric double horn	•	•
Engine shut-off lever	•	•
Evacuation hammer	•	•
Fire extinguisher bracket	•	•
Floor mat	•	•
Footrest	•	•
Front window washer	•	•
Windows on front, left and top sides can be opened	•	•
Lower cab front guard	0	•
Glove compartment	•	•
Hot & cool box	•	•
Intermittent windshield wipers	•	•
Key cylinder light	•	•
LED room light with door courtesy	•	•
Pilot control shut-off lever	•	•
Rear tray	•	•
Seat belt	•	•
Rubber radio antenna	•	•
Mechanical suspension seat	•	•
Seat adjustment parts: backrest, armrest, height and angle, slide forward / backward	•	•
Short wrist control levers	•	•
4 fluid-filled elastic mounts	•	•
24 V cigarette lighter	•	•

<ul><li>Standard</li></ul>	aguinment
• . Stariuaru	equipilient

● : Standard equipment ○ : Optional equipment — : N/A		
	ZX200-5A / ZX210LC-5A	ZX210H-5A
Monitor System		
Alarm buzzers: overheat, engine oil pressure	•	•
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, air filter restriction etc.	•	•
Display items: Coolant temperature gauge, oil level gauge, hour meter, work mode, auto idle, power mode, rear monitoring, radio and air conditioner etc.	•	•
32 languages selection	•	•
LIGHTS		
2 working lights	•	•
Right boom light	0	0
LIBBERGERUGEURE		

Right boom light	0	O
UPPERSTRUCTURE		
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	0	•
Utility space	•	•
3,859 kg counterweight	•/—	_
4,259 kg counterweight	<b>—/●</b>	•
2 × 88 Ah batteries	•	•

	ZX200-5A / ZX210LC-5A	ZX210H-5A
Undercarriage		
Bolt-mounted travel sprocket	•	•
Reinforced track links with pin seals	•	•
Reinforced lower flange	•	•
Reinforced idler bracket	•	•
Travel motor covers	•	•
Travel parking brake	•	•
9.0 mm reinforced undercover	0	•
Track guides	• (1 on each side)	• (2 on each side)
1 hydraulic track adjuster	•	•
Upper and lower rollers	•	•
4 tie down hooks	•	•
600 mm triple grouser shoes	•	Reinforced

Front Attachments		
Centralized lubrication system	•	•
Dirt seal on all bucket pins	•	•
Flanged pin	•	•
New HN bushing	•	•
Reinforced resin thrust plate	•	•
Link B	•	■ Reinforced
Welded link A	•	•
WC (tungsten-carbide) thermal spraying	•	•
2.91 m H-arm	•	•
5.68 m H-boom	•	•
0.8 m³ H-bucket	0/—	_
0.91 m <sup>3</sup> H-bucket	•/0	0
0.91 m³ rock bucket	_	•
1.0 m <sup>3</sup> H-bucket	—/•	_

MISCELLANEOUS		
Lockable fuel refilling cap	•	•
Lockable machine cover	•	•
Onboard information controller	•	•
Skid-resistant plates and handrails	•	•
Standard tool kit	•	•
Travel direction mark on track frame	•	•
e-Service Owner's Site	•	•
ConSite	•	•

HITACHI ZX200-5A Excavator www.wme.cn/hitachi-zx200-5a/