HITACHI

Reliable solutions

ZAXIS200c



Hitachi HYDRAULIC EXCAVATOR

Model Code: ZX200C-5A
Engine Rated Power: 79 kW (106 HP)
Operating Weight: 18,900 kg
Backhoe Bucket: ISO heaped: 0.8 to 0.91 m^3

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.

Hitachi Construction Machinery Asia and Pacific Pte. Ltd.
www.hitachicm.com.sg

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Made by Hitachi

Inventive Quality

Oriented by the customer demands and adhering to the philosophy of providing customers with comprehensive solutions, Hitachi Construction Machinery has developed the ZX200C-5A excavator with high cost performance and high stability by using mature technologies, which brings successful and professional solutions to earthwork operation customers who attach importance to low cost operation and pursue stable and comprehensive performance.

- Hitachi's excellent high-performance hydraulic system can be controlled sensitively to enhance work efficiency.
- The spacious and comfortable cab of the same tonnage makes operations more convenient.
- The ConSite remote management system enables the customer to always control the running state of the machine.
- Diversified omni-directional personalized service makes customers completely rest assured about after-sales problems.

The product is mostly used for earthwork operation in 

and also functions as an edge tool for jumbo-shift short rent and leasing.

High Quality & Efficiency

Made by Hitachi



Made by Hitachi

High End Quality, Improving Durability and Value Preservation

New More Reliable and Durable Engine

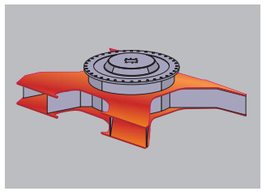
The new engine, which is designed for use in harsh operating environment, is highly durable thanks to a fundamental review of the fuel and cooling systems. It also includes a new auto-idle stop mechanism to reduce fuel consumption and CO2 emissions.



Reliable and Durable Structural Design

The upperstructure frame is reinforced with the D-section skirt to increase rigidity against damage by obstacles.
The X-beam frame is made monolithically with fewer welds for higher rigidity and durability.





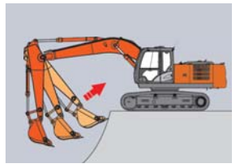
Hitachi System

Outstanding Performance and Easy Control, Ensuring Higher Work Efficiency

With Hitachi HIOSIII Hydraulic System, the Front-end Operating Device Moves More Quickly.

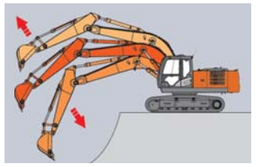
For the HIOS III hydraulic system, the “Excavation speed increase system” and “Boom regeneration system” are developed based on the original hydraulic system. The efficient and accurate hydraulic control not only increases the operation speed and realizes fast and smooth compound operations, but also significantly reduces the fuel consumption. Both excavation and loading can be controlled easily.
*HIOS: 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 Operation

The Power Boost mode allows the operator to surge 5% more digging force for powerful excavation by pressing its button on the control lever. It can obtain the big digging force when the power is needed.

Power Mode

The power mode can be set to the P mode that can bring a large operation volume and the economic E mode that can save fuel consumption.



Low Operating Cost



Low Operating Cost Brings More Value

Better Make Full Use of Fuel

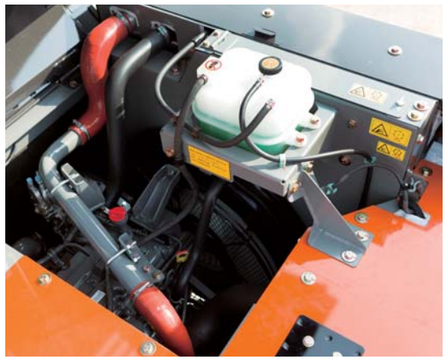
The engine equipped with a high-pressure common-rail electronically controlled fuel injection system and a cooled EGR system is used to increase the utilization of fuel and achieve excellent fuel efficiency. Exhaust emission complies with China's Stage III Emission Standard.

High-pressure Common-rail Electronically Controlled Fuel Injection System

The high pressure common rail type and electronic control are adopted to accurately control the injection time and quantity, which makes the fuel burn well, greatly improves the fuel efficiency and reduces the fuel consumption. Meanwhile, the system also reduces the emission of black smoke and other exhaust gases.

Cooled EGR System

A part of exhaust gas from the primary combustion is mixed with the inlet for combustion again. The EGR cooler is used to reduce the combustion temperature. The fuel consumption is reduced as a high power is ensured, and the emission of air pollutants is reduced.



Routine Maintenance Convenient, Saving Time, Labor, and Cost

- The main filter, pre-filter and pilot filter of fuel, oil filter, and the fuel pump are laid in the pump room in a centralized way to save maintenance time.
- The multi-stage fuel filter system extends the filter replacement cycle and service life.
- The air cleaner is set outside the driver's cab, making cleaning and replacement convenient.
- The expansion tank used avoids the frequent filling of coolant.
- The hydraulic oil cooler, radiator, and intercooler are arranged in parallel, which simplifies the cleaning operation around the engine. The condenser of air conditioner can be opened, making cleaning convenient.

- Replacement cycle of related oil and filters:

Engine oil and oil filter: 500 h	Hydraulic oil filter: 1000 h
Hydraulic oil: 5000 h	Fuel filter: 1000 h





Comfortable & Relaxed

Spacious and Comfortable Operation Space, Enabling Operators to Operate Easily and Safely

Abundant Operation Space and Wide Field of Vision

The drive can enjoy a sufficient room to move legs and an excellent visual field in the cab. The cab entrance is sufficiently hight and wide, which makes it more convenient to get in and out; there is an ample space for feet; both the front window and the right side are made of large area glass, which has a wider visual field. The monitor switch and air conditioner switch are set on the right console uniformly, which makes operations easier. The reasonable air outlet layout of the air conditioner ensures even and smooth air circulation in the cab. The LED indoor lighting fixture is linked with the door and will light up automatically when the door is opened.

Comfortable Suspension Seat

The standard suspension seat renders excellent damping effect, helpful to alleviate fatigue of the operator. The front and back slippages of the seat and the inclination of the back can be adjusted freely. A new type of slide rail is used to effectively reduce the clamping stagnation caused by seat sliding. The cab is supported by a hydraulic elastic support, which can absorb shock and vibration so as to improve the comfort of operation. The pressurized cab can effectively avoid the entry of dust and particles.

Safety Design

In case of an unexpected engine failure, the engine can be easily shut down with the emergency stop switch. In addition, a power cut-off switch is provided and can avoid the problems of power shortage of storage battery and line failure when the product is shut down or not used for a long time. The pilot lock bar starting mechanism is adopted. The engine can be started only when the pilot lock bar is in the locked position, which can prevent the misoperation caused by unintentional touch after startup.

Solid and Reliable Cab

Hitachi's CRES (central pillar reinforced) cab adopted for the product is highly acclaimed. The main part is equipped with a high-strength reinforced beam, which improves the overall strength of the cab.









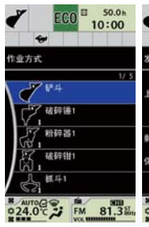


Multi-function Monitoring System

The system is composed of the large color LCD, controller, and rear camera, and menu items are selected via the multi-function controller on the control panel. It also supports multiple languages.



Main menu



Operation mode



Engine oil





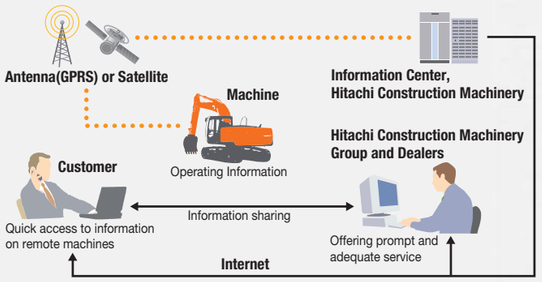
Hitachi Support Chain

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.

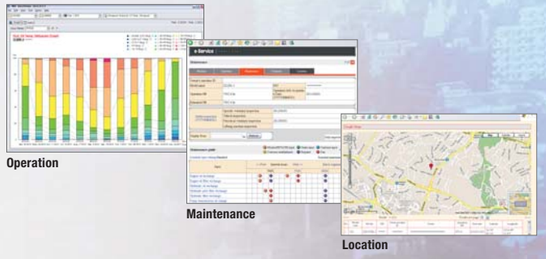
Main Features of Global e-Service

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 four 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.

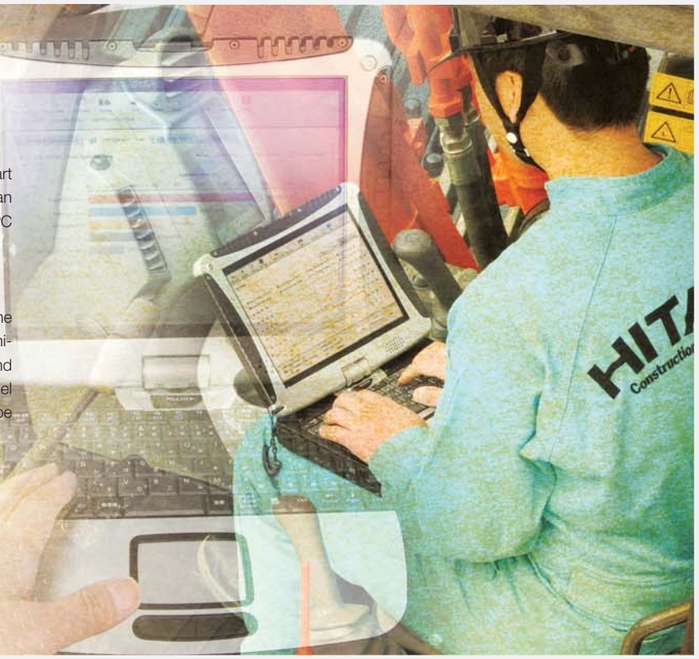
Note: Warranty conditions vary by equipment.

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.



SPECIFICATIONS

ENGINE

Model ..... Isuzu GI-4JJ1XKSA-01
Type ..... 4-stroke, water-cooled, direct injection
Inlet ..... Turbo charge, intercooling type
Number of cylinders 4
Rated power:
ISO 14396 ..... 79 kW (108 PS)/2200 min^{-1} (rpm)
ISO 9249, net ..... 84 kW (114 PS)/2200 min^{-1} (rpm)
SAE J1349, net ..... 84 kW (114 PS)/2200 min^{-1} (rpm)
Maximum torque ..... 375 Nm (38.3 kgfm)/1,800 min^{-1} (rpm)
Piston displacement ..... 2.999 L
Cylinder bore × stroke ..... 95.4 mm × 104.9 mm
Battery ..... 2 × 12 V/70 Ah

HYDRAULIC SYSTEM

Hydraulic Pump

Main pump ..... 2 variable axial piston pump
Maximum flow ..... 2 × 180 L/min
Pilot pump ..... 1 gear pump
Maximum flow ..... 33.6 L/min

Hydraulic Motor

Walking ..... 2 variable swash-plate piston motors
Gyration ..... 1 swash-plate piston motor

Relief Valve Settings

Operating oil circuit ..... 34.3 MPa (350 kgf/cm^2)
Rotary oil circuit ..... 32.8 MPa (334 kgf/cm^2)
Walking oil circuit ..... 34.3 MPa (350 kgf/cm^2)
Pilot oil circuit ..... 3.9 MPa (40 kgf/cm^2)
Power augmentation ..... 38.0 MPa (388 kgf/cm^2)

Hydraulic Cylinder

	Qty	Cylinder bore	Rod diameter
Boom	2	120 mm	85 mm
Bucket rod	1	125 mm	90 mm
Bucket	1	105 mm	75 mm

UPPER REVOLVING FRAME

Slewing Frame

A D-shape section rack is used to prevent deformation.

Slewing Mechanism

The swash-plate piston motor is provided with infiltrating planetary reduction gears. Single row slewing support. The slewing parking brake is a spring compression/hydraulic separation disc brake.
Slewing speed ..... 13.5 min^{-1}(rpm)
Slewing torque ..... 63 kNm(6,430 kgfm)

Cab

The independent and spacious cab is 1005 mm wide and 1675 mm high.

LOWER WALKING BODY

Crawler

The connecting pin has undergone thermal treatment and is provided with dust-proof seal. In addition, the hydraulic (grease) crawler tensioning mechanism is equipped with a shock absorption recoil spring.

Numbers of Trolley Wheels and Crawler Plates (each side)

Carrier roller 2
Thrust wheel 7
Crawler plate 46
Rail chain guide mechanism 1

Walking Gear

The crawler at each side is driven by a two-speed axial piston motor. The parking brake is a spring compression/hydraulic separation disc brake.
Automatic transmission system: High-Low
Walking speed ..... High: 0 to 4.5 km/h
Low: 0 to 2.9 km/h
Maximum traction ..... 191 kN
Climbing ability ..... 70% (35°) continued

MAINTENANCE OIL INJECTION QUANTITY

Fuel tank ..... 320.0 L
Engine coolant ..... 24.0 L
Engine oil ..... 17.0 L
Slewing gear ..... 6.2 L
Walking gear (each side) ..... 6.8 L
Hydraulic system ..... 190.0 L
Hydraulic tank ..... 125.0 L

BUCKET AND BUCKET ROD EXCAVATION FORCE

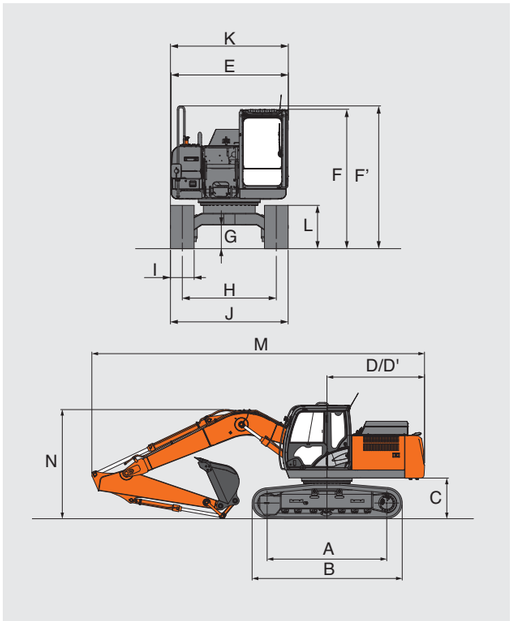
Bucket rod length	2.7 m
Maximum excavation force of bucket* ISO	128 kN (13,100 kgf)
Maximum excavation force of bucket rod* ISO	95 kN (9,700 kgf)

* In the case of power augmentation

OPERATING WEIGHT AND GROUND PRESSURE

	Crawler plate width	Bucket rod length	Bucket capacity (ISO full bucket)	Bucket weight	Counterweight	Operating weight	Ground pressure
ZX200C-5A	600 mm	2.7 m	0.8 to 0.91 m^3	823 kg	3,900 kg	18,900 kg	42 kPa(0.43 kgf/cm^2)

DIMENSIONS

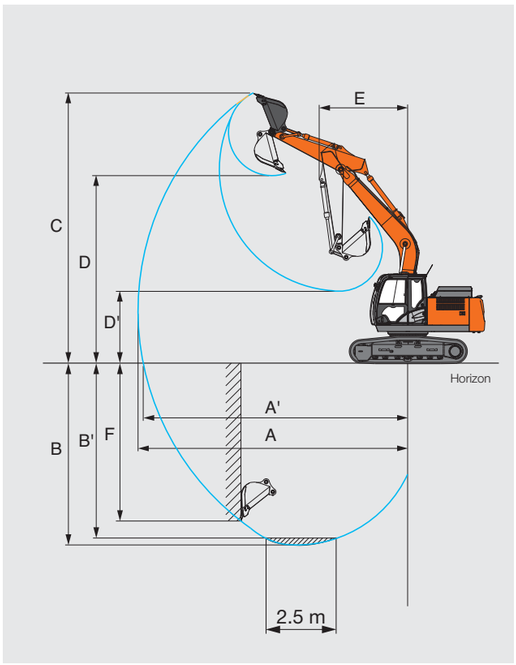


Unit: mm

		ZX200C-5A
	A Wheel spacing	3,370
	B Lower walking body length	4,170
*	C Ground clearance of counterweight	980
	D Rear radius of gyration	2,550
	D' Back end length	2,530
	E Total width of upper revolving frame	2,480
	F Total height of cab	2,950
	F' Total height of upper revolving frame	3,010
*	G Minimum ground clearance	450
	H Track gauge	2,200
	I Crawler plate width (three-bar crawler plate)	600
	J Lower walking body width	2,800
	K Total width	2,800
*	L Crawler height (three-bar crawler plate)	920
	M Total length	9,050
	N Total height of boom	3,100

* Excluding the flange height of the crawler plate

OPERATING RANGE



Unit: mm

Bucket rod length	2.7 m
A Maximum excavation radius	9,430
A' Maximum excavation radius (on the ground)	9,270
B Maximum excavation depth	6,570
B' Maximum excavation depth (2.5 m plane)	6,320
C Maximum cutting height	9,400
D Maximum unloading height	6,570
D' Minimum unloading height	2,550
E Minimum radius of gyration	3,130
F Maximum vertical excavation depth	5,430

Excluding the flange height of the crawler plate

EQUIPMENT

ENGINE

Air cleaner double filters
Alternator 50 A
Auto idle system
Cartridge-type engine oil filter
Cartridge-type fuel main filter
Cartridge-type fuel pre-filter with water separator
Dry-type air filter with evacuator valve (with air filter restriction indicator)
Dust-proof indoor net
ECO/PWR mode control
Engine warm-up device
Fan guard
Radiator expansion tank

HYDRAULIC SYSTEM

Auto power lift
Control valve with main relief valve
High performance full-flow filter
One extra port for control valve
Pilot filter
Power boost
Suction filter
Work mode selector

MONITOR SYSTEM

Alarms:
Overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, etc

Alarm buzzers:
Overheat, engine oil pressure

Display of meters:
Water temperature, hour, fuel rate, clock

Other displays:
Work mode, auto-idle, glow, rearview monitor, operating conditions, etc

32 languages selection

CAB

All-weather sound suppressed steel cab
AM-FM radio with 2 speaker
Ashtray
Auto control air conditioner
Cab (Center pillar reinforced structure)
Drink holder with hot & cool
Electric double horn
Engine shut-off switch
Evacuation hammer
Fire extinguisher bracket
Floor mat
Front windows on upper, lower and left side can be opened
Front window washer
Glove compartment
Hot & cool box
Intermittent windshield wipers
Key cylinder light
LED room light with door courtesy
Pilot control shut-off lever
Rear tray
Retractable seat belt
Rubber radio antenna
Seat adjustment part: backrest, armrest, height and angle, slide forward / back
Seat: mechanical suspension seat
Short wrist control levers
4 fluid-filled elastic mounts
24 V cigarette lighter

LIGHTS

2 working lights

UPPER STRUCTURE

Batteries 2 × 70 Ah
Electric fuel refilling pump
Fuel level float
Hydraulic oil level gauge
Lockable fuel filler cap
Lockable machine covers
Rear view camera
Rear view mirror (right & left side)
Swing parking brake
Tool box
Undercover
Utility space

UNDERCARRIAGE

Bolt-on sprocket
Reinforced idler bracket
Reinforced lower flange
Reinforced track links with pin seals
Shoe: 600 mm triple grouser
Travel motor covers
Travel parking brake
Upper and lower rollers
Walking direction sign on the walking frame
1 track guard (each side)
4 tie down brackets

FRONT ATTACHMENTS

Arm 2.7 m
Boom 5.5 m
Bucket 0.8 m^3 to 0.91 m^3
Centralized lubrication system
Dirt seal on all bucket pins
Flanged pin
HN bushing
Reinforced resin thrust plate

ATTACHMENTS

Attachment basic piping

MISCELLANEOUS

ConSite
Global e-Service
Onboard information controller
Skid-resistant plates and handrails
Standard tool kit