

ZAXIS220_{LC}



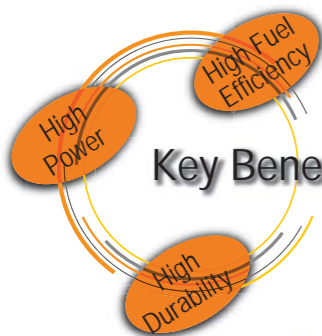
HYDRAULIC EXCAVATOR

Model Code	: ZX220LC (STD) / ZX220LC (HD)
Engine Rated Power	: 170 PS (125 kW)
Operating Weight	: ZX220LC (STD) : 20900 kg
	: ZX220 LC (HD) : 21700 kg
Backhoe Bucket	: ISO Heaped : 0.45 - 1.0 m ³



More Production with Less Fuel

- 10% Reduction in Fuel Consumption
- More Fuel Reduction in the ECO mode
- Swift Front Movements with HIOS* III Hydraulics
- Powerful Lifting Operation
- Boosted Swing Torque
- Enhanced Power Boost
- Easy-to-Use Attachments



Key Benefits of GI



Rock-Solid, Durable Front Attachment

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

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



Remote Fleet Management with Global e-Service

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

Machine location



- Working site of customer machine can be determined.
- Route to working site of customer machine can be determined also.

Alarm function

Machine ID	Machine Name	Location	Status	Alarm Type
00000001	Excavator A	Site 1	Working	Low Fuel
00000002	Excavator B	Site 2	Idle	High Temp
00000003	Excavator C	Site 3	Working	Pressure
00000004	Excavator D	Site 4	Idle	Low Oil
00000005	Excavator E	Site 5	Working	High Temp
00000006	Excavator F	Site 6	Idle	Pressure
00000007	Excavator G	Site 7	Working	Low Fuel
00000008	Excavator H	Site 8	Idle	High Temp
00000009	Excavator I	Site 9	Working	Pressure
00000010	Excavator J	Site 10	Idle	Low Oil

Information of alarms as causes of machine failures can be received in real time.

Hour meter / Daily report

Date	Start Time	End Time	Operation Hours	Remaining Fuel
2023-10-27	08:00	18:00	10.5	85%
2023-10-28	07:30	17:30	10.0	80%
2023-10-29	08:00	18:00	10.5	85%
2023-10-30	07:30	17:30	10.0	80%
2023-10-31	08:00	18:00	10.5	85%

Daily machine operation hours and remaining fuel can be determined.

Operation information

Hyd. Oil Temp. (%)	Coolant Temp. Ratio (%)
80	90
70	80
60	70
50	60
40	50
30	40
20	30
10	20
0	10

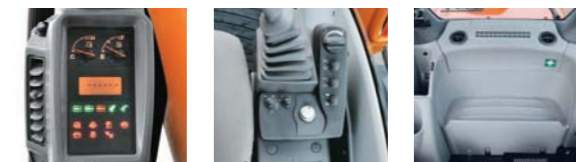
Hydraulic oil temperature, swing hours and other data are determined.



No Compromise on Operator Comfort

- Comfortable Operating Environment
- Comfort-Designed Operator Seat
- Robust Cab

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



ZAXIS
Now, with the Power of GI



Strengthened Undercarriage

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

Track adjusters absorb impacts to crawlers. Front idlers and adjuster cylinders are integrated to increase durability.

Idler brackets and travel motor brackets are both thickened for added durability.



Durable, Reliable Engine

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

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

The ample-capacity intercooler and turbocharger help yield a whopping 170 PS (125 kW) output for higher production in shorter job schedule.

ENGINE

Model.....Isuzu CC-6BG1T
 Type.....4-cycle water-cooled, direct injection
 Aspiration.....Turbocharged, intercooled
 No. of cylinders.....6
 Rated power
 ISO 9249, net.....170 PS (125 kW) at 2 100 min⁻¹ (rpm)
 SAE J1349, net.....170 PS (125 kW) at 2 100 min⁻¹ (rpm)
 Maximum torque.....637 Nm (65 kgfm) at 1 800 min⁻¹ (rpm)
 Piston displacement.....6.494 L
 Bore and stroke.....105 mm x 125 mm
 Batteries.....2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps

Main pumps.....2 variable displacement axial piston pumps
 Maximum oil flow.....2 x 212 L/min
 Pilot pump.....1 gear pump
 Maximum oil flow.....33.6 L/min

Relief Valve Settings

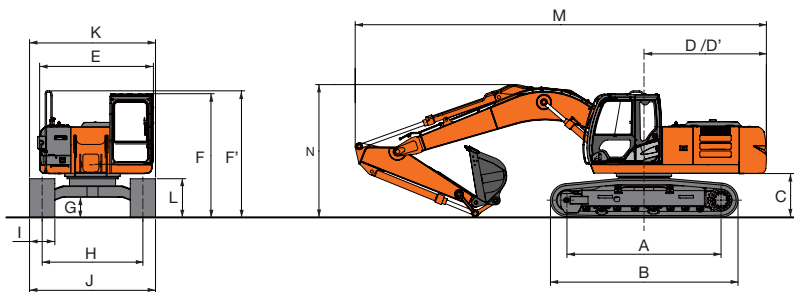
Implement circuit.....350 kgf/cm² (34.3 MPa)
 Swing circuit.....310 kgf/cm² (30.4 MPa)
 Travel circuit.....350 kgf/cm² (34.3 MPa)
 Pilot circuit.....40 kgf/cm² (3.9 MPa)
 Power boost.....388 kgf/cm² (38.0 MPa)

BACKHOE ATTACHMENTS

Capacity	Width		No. Of teeth	Weight	Recommendation ZX220LC (STD / HD)			
	With side cutters	Without side cutters			2.2 m arm	2.42 m arm	2.91 m arm	4.41 m arm
ISO heaped								
0.90 m ³ (HD)	—	1 009 mm	5	944 kg	●	—	—	—
0.90 m ³ (GR)	—	1 009 mm	4	925 kg	●	—	—	—
1.00 m ³	1 340 mm	1 230 mm	6	804 kg	○	○	○	—
0.90 m ³ (GP)	1 240 mm	1 130 mm	5	769 kg	○	○	○	—
0.45 m ³	810 mm	720 mm	3	535 kg	—	—	—	○

◎ Suitable for materials with density of 2 000 kg/m³ or less ○ Suitable for materials with density of 1 600 kg/m³ or less ● Heavy-duty service — Not applicable

DIMENSIONS



	ZX220LC (STD / HD)		ZX220LC (STD / HD)
A Distance between tumblers	3 660	J Undercarriage width	2 390
B Undercarriage length	4 460	K Overall width	2 990
* C Counterweight clearance	1 040	* L Track height with triple grouser shoes	920
D Rear-end swing radius	2 910	M Overall length With 2.20 m arm	9 760
D' Rear-end length	2 910	With 2.42 m arm	9 680
E Overall width of upperstructure	2 700	With 2.91 m arm	9 680
F Overall height of cab	2 940	N Overall height of boom	3 150
F' Overall height of upperstructure	3 010	With 2.20 m arm	3 050
* G Min. ground clearance	450	With 2.42 m arm	3 010
H Track gauge	2 390	With 2.91 m arm	3 050
I Track shoe width	600		

* Excluding track shoe lug G: Triple grouser shoe

UPPERSTRUCTURE

Swing speed.....13.0 min⁻¹ (rpm)
 Swing torque.....60.4 kNm (6 200 kgfm)

UNDERCARRIAGE

Numbers of Rollers and Shoes on Each Side

Upper rollers.....2
 Lower rollers.....8 : ZX220LC (STD / HD)
 Track shoes.....49 : ZX220LC (STD / HD)
 Track guard.....2 : ZX220LC (STD)
 3 : ZX220LC (HD)

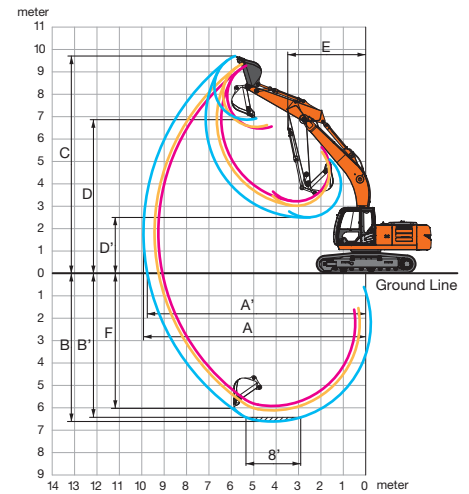
Travel Device

Travel speeds.....High : 0 to 5.5 km/h
 Low : 0 to 3.5 km/h
 Maximum traction force.....184 kN (18 800 kgf)
 Gradeability.....70% (35° continuous)

SERVICE REFILL CAPACITIES

Fuel tank.....400.0 L
 Engine coolant.....23.0 L
 Engine oil.....25.0 L
 Swing device.....6.2 L
 Travel device (each side).....6.8 L
 Hydraulic system.....240.0 L
 Hydraulic oil tank.....135.0 L

WORKING RANGES



	Arm length		
	2.20 m	2.42 m	2.91 m
A Max. digging reach	9 260	9 430	9 920
A' Max. digging reach (on ground)	9 080	9 250	9 750
B Max. digging depth	5 920	6 120	6 610
B' Max. digging depth (8° level)	5 680	5 890	6 420
C Max. cutting height	9 250	9 330	9 680
D Max. dumping height	6 450	6 520	6 850
D' Min. dumping height	3 210	3 010	2 490
E Min. swing radius	3 530	3 520	3 490
F Max. vertical wall digging depth	5 420	5 620	6 030

Excluding track shoe lug

The Specifications are subject to change without prior notice. The Machine depicted may vary from the actual Machine Please contact our nearest office for latest specifications. Accessories shown here are not part of the standard equipment Performance of the machine may vary with site and operating conditions encountered

Tata Hitachi Construction Machinery Company Limited

Registered Office : Jubilee Building 45 Museum Road Bangalore 560 025 India
 Telephone: +91 80 66953301 02 03 04 05 Fax: +91 80 66953309 25325792

Toll Free: 1800 3456 500



Authorised Dealer