



Reliable solutions

ULTRA PERFORMANCE



ULTRA PERFORMANCE





Limitless Reliability and Durability

Top-Notch Technology

State-of-the-art R&D and Quality Control

Tata Hitachi is known for its technological prowess and product performance. The R&D Division has a track record of excellent design, stress analysis expertise using CAE system, and an abundant production data base. A large scale durability test field allows for a series of stringent testing of new machines.

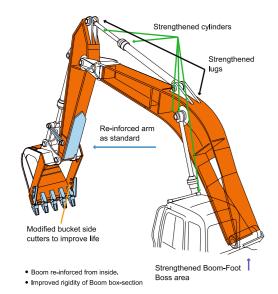




Rock-Solid, Durable Front Attachment

The robust boom and arm are designed and analysed using advanced software. They are manufactured to precision using high grade steels with state-of-the-art welding robot and machining centres. Thus, durability is built into the front attachment. 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, retain grease inside for longer greasing intervals. A reinforced resin thrust plate, provided at front attachment joints, helps reduce wearing noise.



Strengthened Undercarriage

The X-beam frame is made monolithically with fewer welds for higher rigidity and durability. Idler brackets and travel motor brackets are both reinforced for added durability.



Proven Upperstructure

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

Reliable and Durable Isuzu Engine

This tried and tested reliable Japanese engine has a track record showing impressive durability at countless tough job sites around the world. This engine with a rugged design, a direct fuel injection system and a robust mechanical governor goes green and complies with global emission norms.

The turbo charged, inter-cooled engine yields a whopping 66kW output for higher production in shorterjobschedule.



Human & Intelligent Operation System (HIOS-III)

Discover excellence with ZAXIS 220LC ULTRA's HIOS-III hydraulic system, developed by industry leading hydraulic technologies and a wealth of experience. Unleash superior digging forces, swift front movements, faster cycle times and precise controls resulting in higher production with low fuel consumption.

Generational Intelligence with New Age Micro-processor based controls

Experience advanced micro-processor based technology that enhances productivity, simplifies maintenance, and ensures exceptional performance.

Versatility

The ZAXIS 220LC ULTRA comes in tailor made options and is easily customizable with various attachments such as Auger, Quick Coupler, Orange Peel Grab and many more.

Option of factory fitted rock breaker piping kit is also available. Wide range of bucket options are also available to suit a variety of applications.





ULTRA PERFORMANCE ___

Unmatched Performance

- New Buckets with Higher Capacity
- Enhanced Power Boost
- Higher Swing Torque
- Auto Power Lift Mode
- Increased Working Ranges
- High Production with Low Fuel Consumption
- Faster Cycle Time



Limitless Reliability and Durability

- Reliable Japanese Engine
- Strengthened Bucket and Boom Cylinders
- Strengthened Boom
- Strengthened Undercarriage
- Reliable Pump and Motors
- Proven Upper Structure
- Reinforced Front Attachments

Top-Notch Technology and Versatility

- HIOS III Hydraulic System
- New-age Micro-Processor Based Controls
- ConSite Telematics Suite
- Global e-Service
- Factory fitted rock breaker piping kit
- Easily customizable with attachments, such as, rock breaker, auger, orange peel grab, quick coupler, etc.





- 7" LCD Monitor
- Auto control Air Conditioner
- Ergonomically Placed Controls
- Suspension Seat
- AM/FM, Powerful Speakers, AUX and USB Connectivity for Charging and Music.
- Powerful LED lights

Safety:

- OPG Cabin
- FOPS (Falling Object Protective Structure)
 Level 2

 Level 2

 Level 2

 Level 2

 Level 2

 Level 2

 Level 3

 Level 3

 Level 4

 Level 9

 Level 9



Assured Support

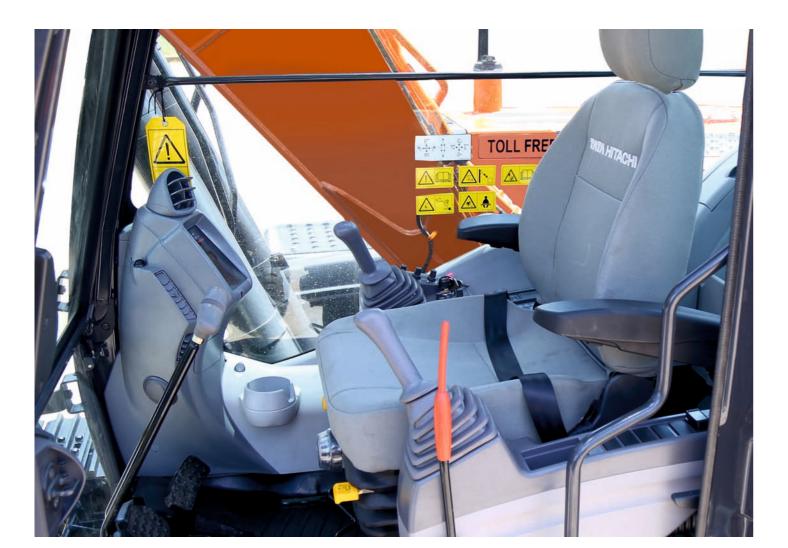
- Extended Warranty
- Wide-spread Dealer Network
- Field Diagnostic Vehicle
- Mobile Workshop







Redefined Comfort and Safety



Safe and Robust Cab

- The robust cab, meeting the OPG (Top Guard Level 1) criteria, protects the operator from falling objects.
- Optional enhanced safety and DGMS compliance facility is available:
- Auto Fire Detection and Suppression System (AFDSS) is available as optional feature and can be factory fitted
- Auto centralized lubrication system (ACLS) provides lubrication to all the pins
- Swing alarm system can be provided to meet safety requirement
- Travel alarm to alert nearby equipment/people during travel operation of the machine.

Cabin Features

- Plush comfortable reclining seat with armrest and adjustable headrest
- Air Lumbar Support
- Air conditioning
- Smooth control levers
- Engine emergency shut-off switch
- · Horn function even in machine off condition
- · Engine stop switch

- · Engine stop cable
- 7" LCD display multipurpose monitor
- Rear tray
- · Bottle holder
- Front guard for cabin glass
- · Overhead window
- · AM/FM, powerful speakers, AUX and USB connectivity for charging and music.
- Powerful LED lights

Comfort-Designed Operator Seat

Experience spacious and ergonomically designed cabin for comfort and productivity, featuring ample space and strategically placed controls for a seamless experience



New Multi-function



Ergonomic



Lever locking and wide door for easy ingress

Assured Support

Genuine Tata Hitachi Parts meet stringent quality standards. These parts are guaranteed to perform and are backed by Tata Hitachi's warranty.

Developed in synergy with our machines, Tata Hitachi ensures wide spread dealer network which also offers Field Diagnostic Vehicle and Mobile Workshop for quicker after-sales service.

Tata Hitachi also offers extended warranty so that our customers get high levels of performance, reliability and peace of mind.

Extended service intervals for reduced maintenance cost:

- Engine oil change: 500 hours
- Engine oil filter change: 500 hours
- Fuel filter change: 500 hours
- Hydraulic oil filter change: 1000 hours
- Hydraulic oil change: 5000 hours











Guaranteed availability - Increased uptime and maximum production.

Fix before failure to ensure

maximum reliability of machines.



Higher resale value of equipment after the end of the contract.



float aggregates.



Exclusive onsite warehouse for complete contract period.

Onsite availability of



MONTHLY **REPORT VIA E-MAIL**

Know everything about your machine & how to increase productivity while reducing costs



Advises you on ways to fine tune everyday operations



Pre-emptive information of vour machine's health



Real time notification to you and the dealer to avoid machine breakdowns



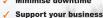
Benchmarking your machine against similar class machines in the region

















ULTRA

Specifications

ENGINE ..Isuzu CC-6BG1T Model4-cycle water-cooled, direct injection Aspiration ...Turbocharged, intercooled No. of cylinders . Rated power ISO 9249 / SAE J1349, net168 HP (170 PS) at 2 100 min⁻¹ (rpm)637 Nm (65 kgfm) at 1 800 min⁻¹ (rpm) Maximum torque

HYDRAULIC SYSTEM

Piston displacement ... Bore and stroke

Batteries .

Hydraulic Pumps	
Main pumps	2 variable displacement axial piston pumps
	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)

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	

UNDER CARRIAGE

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 roller	2
Lower roller	
Track shoes	
Track guard	
Track Baara	1

Travel Device

Travel speeds..

....6.494 L

..105 mm x 125 mm

....2 x 12 V / 88 Ah

Each track driven by 2-speed axial piston motor.

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

Automatic transmission system: High-Low.

	Low: 0 to 3.5 km/h
Maximum traction force	184 kN (18 800 kgf)
Gradeability	70% (35 degree) continuous

UPPER STRUCTURE	
Swing speed	
Swing torque	

BUCKET AND ARM DIGGING FORCES

Arm length	2.4 m (STD)	2.91 m		
Bucket digging force* ISO	158 kN (16 100 kgf)	158 kN (16 100 kgf)		
Bucket digging force* SAE : PCSA	139 kN (14 200 kgf)	139 kN (14 200 kgf)		
Arm crowd force* ISO	139 kN (14 200 kgf)	114 kN (11 600 kgf)		
Arm crowd force* SAE : PCSA	133 kN (13 600 kgf)	110 kN (11 200 kgf)		

* At Power Boost

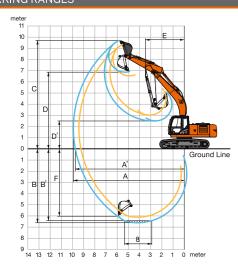
...High: 0 to 5.1 km/h

BACKHOE ATTACHMENTS

Capacity ISO	Wid	Tooth	Weight	Max. Material Density (kg/m³)	Arm			
heaped m ³	Without side cutters	Point (no's)	kg	iviax. Waterial Delisity (kg/iii)	Length (m)			
0.9 GP	1 130 mm 1 240 mm		5	745	1800	2.9		
1.0 HD	1 245 mm 1 269 mm		D 1245 mm 12		4	962	2 000	2.4
1.1 GP	1 330 mm 1 440 mm		6	929	1800	2.4		
1.22 ELM	1 460 mm	1 570 mm	6	857	1 100	2.4		
Block Handling	1 236 mm	-	4	1240	G & M	2.4		
1.7	1802 mm	-	-	799	1 150	2.4		

G & M - Granite and Marbel

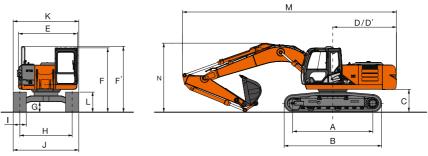
WORKING RANGES



			Unit: mm
	Boom length	5.6	8 m
	Arm length	2.4 m	2.9 m
Α	Max. digging reach	9 435	9 930
A'	Max. digging reach (on ground)	9 260	9 760
В	Max. digging depth	6 160	6 630
B'	Max. digging depth for 2.5 m level	5 950	6 470
С	Max. cutting height	9 700	10 070
D	Max. dumping height	6 870	7 200
D'	Min. dumping height	3 180	2 630
Е	Min. swing radius	3 180	3 190
F	Max. vertical wall digging depth	5 720	6 140

Specifications

DIMENSIONS



	,	
Α	Distance between tumblers	3 660
В	Undercarriage length	4 460
*C	Counterweight clearance	1 040
D	Rear-end swing radius	2 910
D'	Rear-end lengh	2 910
Е	Overall width of upperstructure	2 700
F	Overall height of cab	2 940
F'.	Overall height of upperstructure	3 010
*G	Min. ground clearance	450

		ZX220LC (S	TD/HD) Unit: mm
Н	Track gauge		2 390
1	Track shoe width		600
J	Undercarriage width		2 990
K	Overall width		2 990
*L	Track height with triple	grouser shoes	920
М	Overall length	With 2.4 m arm	9 750
		With 2.9m arm	9 750
N	Overall height of boom	With 2.4 m arm	3 030
		With 2.9m arm	3 070
		* Evaluding track chools	C: Triple grouper chas

* Excluding track shoe lug G: Triple grou

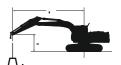
WEIGHTS AND GROUND PRESSURE

			ZX220L	C (STD) *1	ZX220LC (HD) *2			
Shoe type	Shoe width	Arm length	kg	kPa (kgf/cm2)	kg	kPa (kgf/cm2)		
Triple grouser 600 mm	600 mm	2.4 m	21 200	48 (0.49)	21 300	48 (0.49)		
	600 11111	2.91 m	21 400	49 (0.50)	21 500	48 (0.49)		
Triple grouser	600 mm	2.4 m	21 400	49 (0.50)	21 500	49 (0.50)		
HD	000111111	2.91 m	21 600	49 (0.50)	21 700	49 (0.50)		

*1:Including 1.1 m³ (ISO heaped) bucket weight (STD: 929 kg) and counterweight (4 600 kg). | *2:Including 1.0 m³ (ISO heaped) bucket weight (HD: 962 kg) and counterweight (4 600 kg).

LIFTING CAPACITIES

- Notes: 1. Ratings are based on ISO 10567.
 - 2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
 - 3. The load point is the center-line of the bucket pivot mounting pin on the arm.
 - 4. *Indicates load limited by hydraulic capacity.
 - For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



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

FC!!37 PD>?/3/2/HD

EC¦¦³7. ₽>?/	³∕& / þÐ								Rating o	ver-front (Rating o	over-side or 3	60 degrees	Unit : kg
	Load					Load	radius							le
Conditions	point			3.0 m		4.5	4.5 m 6		6.0 m 7.5		5 m		At maximum reach	
Conditions	height m	Ů		ů		Ů	-	ů		ů	-	ů		meter
Boom 5.68 m	6.0							*5 430	5 410			*5 520	4 470	6.75
Arm 2.4 m	4.5					*6 910	*6 910	*5 930	5 270			*5 620	3 740	7.49
· · · · · · · - · · · · · ·	3.0					*8 850	7 600	*6 780	5 040	5 540	3 650	5 140	3 390	7.87
Counterweight 4 600 kg	1.5					*10 500	7 160	7 560	4 830	5 430	3 550	4 990	3 270	7.95
_	0 (Ground)					*11 210	6 970	7 400	4 690	5 360	3 490	5 130	3 350	7.74
Shoe width: 600 mm	-1.5			*9 900	*9 900	*11 080	6 950	7 360	4 660			5 670	3 670	7.21
000111111	-3.0			*14 070	13 680	*10 130	7 060	7 450	4 740			*6 980	4 470	6.28
	-4.5					*7 560	7 350					*7 110	6 890	4.71

EC¦¦³7. ₽ [_1	ZYL / ø								Rating	over-front (Rating o	ver-side or	360 degrees	Unit : kg
Conditions	Load point height m	Load radius										At maximum reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At maximum reach		
		Ů	@	Ů	-	ů	©	ů	-	Ů	@	Ů	•	meter

Conditions	point height m	1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		At maximum reach		
		Ů		ů		Ů		ů		Ů		Ů		meter
Boom 5.68 m	6.0							*4 810	*4 810			*3 970	3 870	7.33
Arm 2.91 m Counterweight 4 600 kg Shoe width: 600 mm	4.5					*6 080	*6 080	*5 370	5 250	*5 080	3 690	*3 920	3 300	8.01
	3.0					*8 020	7 640	*6 270	5 000	*5 470	3 580	*4 030	3 010	8.37
	1.5					*9 850	7 130	*7 200	4 760	5 350	3 460	*4 310	2 900	8.45
	0 (Ground)			*4 770	*4 770	*10 870	6 860	7 300	4 590	5 250	3 370	4 580	2 960	8.25
	-1.5	*5 410	*5 410	*9 040	*9 040	*11 030	6 780	7 220	4 520	5 220	3 350	4 990	3 210	7.75
	-3.0	*9 910	*9 910	*14 930	13 340	*10 400	6 850	7 260	4 550			5 950	3 800	6.90
	-4.5			*12 110	*12 110	*8 580	7 070					*6 640	5 330	5.51

ZAXIS

Equipment

ZX220LC ULTRA ENGINE	STD	HD
Air cleaner double filters	•	•
Auto idle system	•	
,	•	-
Cartridge-type engine oil filter		•
Cartridge-type fuel pre-filter	•	•
Cartridge-type fuel main filter	•	•
Dry-type air filter with evacuator valve (with air filter restriction indicator)		
ECO/PWR mode control		
Fan guard		-
Water separator		
Pre-cleaner	•	•
Dust-Proof indoor net	•	•
Radiator reserve tank	•	•
50 A alternator	•	•
HYDRAULIC SYSTEM	I	I
Auto power lift	•	•
Control valve with main relief valve	•	•
Full-flow filter	•	•
High mesh full flow filter with restriction indicator	0	0
Pilot filter	•	•
Power boost	•	•
Suction filter	•	•
Extra port for control valve	•	•
Work mode selector	•	•
CAB		<u>'</u>
All-weather sound suppressed steel cab	•	•
AM-FM radio with 2 speakers	•	•
Ashtray	•	
Auto control air conditioner		
Drink holder	•	
Drink holder with hot & cool	•	
		-
Electric horn		•
Engine shut-off lever	•	•
Evacuation hammer	•	•
Floor mat	•	•
Footrest	•	•
Front window washer	•	•
Front windows on upper, lower and	•	•
left side can be opened	_	_
Lower cab front guard	•	•
Upper cab front guard	•	•
Hot & cool box	•	•
Intermittent windshield wipers	•	•
Room light	•	•
FOPS Level 1 compliant cabin	•	•
FOPS Level 2 compliant cabin with top guard		
(IS/ISO 3449/ ISO 10262)	0	0
Pilot control shut-off lever	•	•
Seat belt with warning system	•	•
Radio antenna	•	•
AUX port	•	•
Seat:Mechanical suspension seat with		
air lumbar support	•	•
Seat adjustment : backrest, armrest, height and	•	•
angle, slide forward / back		
Short wrist control levers	•	•
4 fluid-filled elastic mounts	•	•
LIGHTS	·	
Additional cab roof front lights	•	•
2 LED lights on boom	•	•
	•	_
Working light on tool box		

ZX220LC ULTRA	STD	HD
MONITOR SYSTEM		
Meters : Hour meter, breaker hour meter,		
engine coolant temperature gauge and fuel gauge	•	•
Warning indicators : Alternator charge, low engine oil		
pressure, engine overheat, air filter restriction,	•	•
low fuel level	_	
Indicators: Engine preheat, work modes, auto idle	•	•
work light and fuel consumption	_	
Alarm buzzers : Low engine oil pressure and engine overheat	•	•
On board display of Radio & Air conditioner	•	
UPPER STRUCTURE		
Electric fuel refilling pump with auto stop function		
Fuel Level Float	•	
Hydraulic oil level gauge		_
, , ,	•	
Rear view mirror (right & left side)	•	•
Swing parking brake	•	•
Tool box	•	•
Undercover	•	•
Utility space (behind cabin)	•	•
UNDERCARRIAGE	_	_
Bolt-on sprocket	•	•
Reinforced track links with pin seals	•	•
Reinforced idler bracket	•	•
Travel motor covers	•	•
Travel parking brake	•	•
Track guard (each side) and hydraulic track adjuster	•	•
Upper and lower rollers	•	•
2 track guards	•	•
4 tie down hooks	•	•
600 mm triple grouser shoes	•	•
600 mm HD triple grouser shoes	-	•
800 mm triple grouser shoes	0	0
FRONT ATTACHMENTS		
Centralized lubrication system	0	0
Dirt seal on all bucket pins	•	•
Flanged pin	•	•
Reinforced link B	•	•
WC (tungsten-carbide) thermal spraying	•	•
Seat screws for breaker attachment	•	•
ATTACHMENTS		
Breaker and crusher piping	0	0
High mesh full flow fillter with restriction indicator	0	0
Parts for breaker and crusher	0	0
Line filter	0	0
MISCELLANEOUS		
Auto Lubrication	0	0
Lockable fuel refilling cap	•	•
Lockable machine covers		
Onboard information controller	•	•
		_
Skid-resistant tapes, plates and handrails	•	_
Standard tool kit	•	_
Travel direction mark on track frame	•	•
Global e-Service	•	•
Battery cut-off Switch	•	•
Travel alarm	0	0
Swing alarm	0	0
	0	0
AFSS phase-I Rear view camera	0	0

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

lacktriangle : Standard equipment lacktriangle : Optional equipment

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