



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.

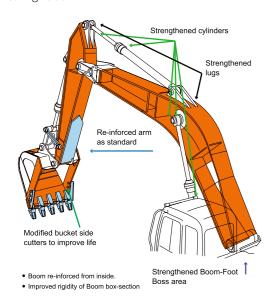




Rock-Solid, Durable Front Attachment

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.

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



Proven Upperstructure

Reinforced with a proven D-section skirt, the upper structure frame offers increased rigidity and protection against obstacle impact.

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.



Rock Breaker





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

TATA HITACHI

- Reliable Japanese Engine
- Strengthened Bucket and Boom Cylinders WW
- 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.



Redefined Comfort and Safety

- 7" LCD Monitor
- Auto Climate 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

 Tevel



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.

· Engine stop cable

Overhead window

Rear tray

· Bottle holder

• Multipurpose 7" LCD monitor

· Front guard for cabin glass

AM/FM, powerful speakers,

charging and music.

· Powerful LED lights

AUX and USB connectivity for

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

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.





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.



after the end of the contract.

Higher resale value of equipment

Trained and experienced manpower

at site on 365*24 hours basis



Onsite availability of float aggregates.



Exclusive onsite warehouse for complete contract period.



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

CAUTION ALARM ALARM

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











Support your business



ZAXIS

Specifications

ENGINE ..Isuzu CC-6BG1T Model ..4-cycle water-cooled, direct injection Type. Aspiration ...Turbocharged, intercooled No. of cylinders . Rated power ISO 9249 / SAE J1349, net . ..168 HP (170 PS) at 2 100 min⁻¹ (rpm) ...637 Nm (65 kgfm) at 1 800 min⁻¹ (rpm) Maximum torque6.494 L Piston displacement. Bore and stroke. .105 mm x 125 mm2 x 12 V / 88 Ah Batteries

HYDRAULIC SYSTEM

Main pumps	2 variable displacement axial piston pumps
	2 x 212 L/mir
Pilot pump	1 gear pump
Maximum oil flow	
Relief Valve Settings	
mplement 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	

SERVICE REFILL CAPACITIES

Fuel tank	
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

UNDER CARRIAGE

racks

Heat-treated connecting pins with dirt seals Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers, Shoes and Guard on Each Side

Upper roller	2
Lower roller	
Track shoes.	
Track guard	2

Travel Device

Travel speeds..

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	12.2 min ⁻¹ (rpm)
Swing torque	65.1 kNm (6 638 kgfm)

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

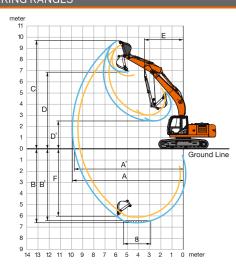
BACKHOE ATTACHMENTS

Capacity ISO	Width ((mm)	Tooth	Weight	Max. Material Density (kg/m³)	Arm
heaped (m³)	Without side cutters	With side cutters	Point (no's)	(kg)	Max. Material Defisity (kg/fff)	Length (m)
0.9 GP	1130	1 240	5	745	1800	2.9
1.0 HD	1 245	1 269	4	962	2 000	2.4
1.1 GP	1330	1 440	6	929	1800	2.4
1.22 ELM	1 460	1570	6	857	1 100	2.4
Block Handling	1 236	-	4	1 240	G & M	2.4
1.7	1802	-	-	799	1 150	2.4

G & M - Granite and Marbel

I Init: mm

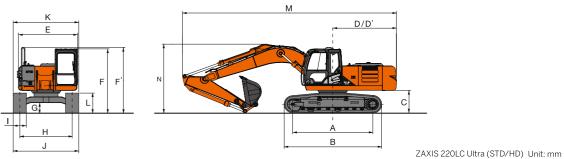
WORKING RANGES



			Unit: mm
	Boom length	5.6	8 m
	Arm length	2.4 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
Ε	Min. swing radius	3 180	3 190
F	Max. vertical wall digging depth	5 720	6 140

Specifications

DIMENSIONS



A	Distance between tumblers	3 660	Н	Track gauge
В	Undercarriage length	4 460	1	Track shoe width
*C	Counterweight clearance	1 040	J	Undercarriage width
D	Rear-end swing radius	2 910	K	Overall width
D'	Rear-end lengh	2 910	*L	Track height with triple
E	Overall width of upperstructure	2 700	М	Overall length
F	Overall height of cab	2 940		
F'.	Overall height of upperstructure	3 010	N	Overall height of boom
*G	Min. ground clearance	450		

 width
 600

 age width
 2 990

 th
 2 990

 t with triple grouser shoes
 920

yth With 2.4m arm 9 750 With 2.9m arm 9 750 yht of boom With 2.4m arm 3 030 With 2.9m arm 3 070

* Excluding track shoe lug

2 390

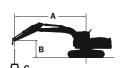
WEIGHTS AND GROUND PRESSURE

			ZAXIS 220L	C Ultra (STD)*1	ZAXIS 220L	C Ultra (HD)*2
Shoe type	Shoe width	Arm length	kg kPa (kgf/cm²)		kg	kPa (kgf/cm²)
Triple grouper	600 mm	2.4 m	21 200	48 (0.49)	21 300	48 (0.49)
Triple grouser	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.
 - 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

7AXIS 220I C Ultra (STD/HD)

Rating over-front Rating over-side or 360 degrees Unit : kg

ZAXIS 220LC Ultra (STD/HD) Hating over-side or 360 degrees Unit: k							Unit : kg							
	Load		Load radius									At maximum reach		
Conditions	point	1.5	m	3.0) m	4.5	5 m	6.0) m	7.5	m	AI	. IIIaxiiIIuIII	reacri
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
00011111	-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

ZAXIS 220LC	Ultra	(Optional)
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Rating over-front Rating over-side or 360 degrees Unit: kg

									~					
	Load	Load radius										At maximum reach		
Conditions	point	1.5	m	3.0) m	4.5	5 m	6.0)m	7.5	m	_ ^	l IIIaXIIIIuIII	reacii
Conditions	height m	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	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
Counterweight 4 600 kg	1.5					*9 850	7 130	*7 200	4 760	5 350	3 460	*4 310	2 900	8.45
Shoe width: 600 mm	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

Equipment

ZAXIS 220LC ULTRA	STD	HD
ENGINE		
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		
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	•	
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	•	•
Light on the counter weight	0	0

ZAXIS 220LC 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 Unities and a chief	•	•
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	•	•
Travel direction mark on track frame	•	•
Global e-Service	•	•
Battery cut-off Switch	•	•
Travel alarm	0	0
Swing alarm	0	0
AFSS phase-I Rear view camera	0	0
	0	0

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

ullet : Standard equipment $\,{f O}$: Optional equipment

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