

MATERIAL HANDLING MACHINE

ZAXIS 210LC/250LC/350LC/470LCH

APPLICATION & ATTACHMENT



The Hitachi Material-Handling Long Front Boosts Production and Widens Working Ranges

The Hitachi material-handling long front is built for higher job efficiency and goes green. An assortment of front attachments are available.

Side mounted double-arm cylinder

Help widen working ranges, and facilitate operation next to the machine.

Arm-Top Pipping Guard

Protects the piping on the arm top.

Silon Valves

Reduce oil flow-out during the replacement of the front attachment for cost-saving maintenance. Stop valves are built in the



Cab Front Window Guards (Upper / Lower)

Work Lights

sides of the arm.

Help increase job efficiency in

night shift. They are provided on

left side of the boom, and on both

Under View Mirror

Protect the cab front window from falling objects. The upper guard can be swung open for easy cleaning of the cab front window.

Arm Cylinder Hose Rupture Valves

Prevent the free-fall of the arm even if the arm cylinder hose is ruptured.



Additional Cab Roof Front Lights (Optional)

High-Mount Cab

Gives higher visibility. Single linkage and fixed types are available.



O Boom Gylinder Hose Rupture Valves

Prevent the free-fall of the boom even if the boom cylinder hose is ruptured.



Rear view camera

HeavierCounterweight

The counterweight is further weighted for higher stability.

Environmentally Friendly Design

- The engine complies with the Emission Regulations: EU Stage III A and U.S. EPA Tier 3.
- Low noise design complies with the EU Noise Regulation 2000/14/EC Stage II.

Pre Creaner (Optional)

Note: Photos in this brochure may include optional equipment.

They may also include custom-made options to meet specific user needs.

Boosted Productivity

A combination of the new hydraulic system and new engine allows the efficient use of hydraulic pressure to increase speeds of actuators and boost production with higher fuel efficiency.

Common Rail Type Fuel Injection System

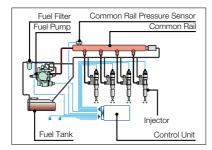
Electronic control common rail type fuel injection system drives an integrated fuel pump at an ultrahigh pressure to distribute fuel to each injector per cylinder through a common rail. This enables optimum combustion to generate big horsepower, and reduce PM* (diesel plume) and fuel consumption.

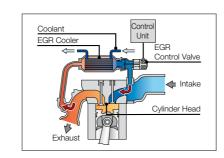
Cooled EGR** System

Exhaust gas is partially mixed with intake air to lower combustion temperature for reducing NOx and fuel consumption.

What's more, the EGR cooler cools down exhaust gas to increase air concentration for complete combustion, reducing PM* (diesel plume). *Particulate Matter

**Exhaust Gas Recirculation

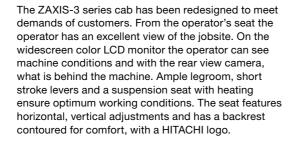




A New Standard in Operator Comfort







Full auto air conditioner/ AM/FM radio



Drink holder / Hot & cool



Easy-to-control switches Drink holder







Personal storage space Generous storage space





Wide adjustable armrests and a retractable seat belt are included. Three switches on the lever (optional) can be set to operate attachments other than buckets. The cab is pressurized to keep out dust. Noise and vibrations are kept to a minimum due to the elastic mounts, filled with silicone oil, the cab rests on. Visibility is improved especially for the right downward view. A flat floor allows for easy cleaning. Ergonomic controls and switches, fully automatic air conditioner and a radio complete the package.

Additional Features

Cab right protection bars



Evacuation hammer



Pilot control shut-off lever



Embedded Information Technology

The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear-view camera. A theft deterrent system and multi-12 languages selection are also available.

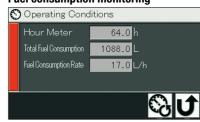
The machine does the job in the digging mode.



Maintenance support



Fuel consumption monitoring



Multi-language selection



Simplified Maintenance

The ZAXIS-3 series meet customer demands for simplified maintenance. Regular maintenance is the key for keeping equipment in top condition, which can help to prevent costly downtime. In addition, a regularly serviced machine has higher residual value. There are many service features to be found on the ZAXIS-3 series.

ZX210LC-3 / 250LC-3 / 350LC-3





Oil Coole

ZX470LCH-3





The oil cooler, radiator and intercooler (except for ZX470LCH-3) are laid out in a parallel arrangement, instead of the conventional in-line arrangement. This parallel arrangement is significantly easier to clean around the radiator. The air conditioner condenser can be opened for easy cleaning of the condenser and the radiator located behind.

Engine Oil Cooler

ZX210LC-3

ENGINE
ModelIsuzu Al-4HK1X
Type 4-cycle water-cooled, direct injection
Aspiration Turbocharged, intercooled
No. of cylinders 4
Rated power
ISO 9249, net 122 kW (164 HP) at 2 000 min-1 (rpm)
EEC 80/1269, net 122 kW (164 HP) at 2 000 min-1 (rpm)
SAE J1349, net 122 kW (164 HP) at 2 000 min-1 (rpm)
Maximum torque 655 N·m (67 kgf·m) at 1 500 min ⁻¹ (rpm)
Piston displacement 5.193 L
Bore and stroke 115 mm x 125 mm
Batteries 2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

Work mode selector

Digging mode / Attachment mode

• Hydraulic control

Engine speed sensing system

Maximum oil flow.. 30 L/min

Pilot pump...... 1 gear pump

Maximum oil flow .. 30 L/min

Hydraulic Motors

Relief Valve Settings

 Implement circuit
 34.3 MPa (350 kgf/cm²)

 Swing circuit
 34.3 MPa (350 kgf/cm²)

 Travel circuit
 34.3 MPa (350 kgf/cm²)

 Pilot circuit
 3.9 MPa (40 kgf/cm²)

 Power boost
 36.3 MPa (370 kgf/cm²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

CONTROLS

Pilot controls. Hitachi's original shockless valve.

Travel levers with pedals 2

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Device

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for good visibility. Openable front windows (upper and lower). Reclining seat with armrests; adjustable with or without control levers.

* International Standardization Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. 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	8
Track shoes	49
Track guard	1

Travel Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable.

Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel.

Automatic transmission system: High-Low.

Maximum traction force 203 kN (20 710 kgf)

WEIGHTS AND GROUND PRESSURE

ZX210LC-3:

Equipped with 6.50 m boom, 4.95 m arm and 600 mm triple grouser shoe.

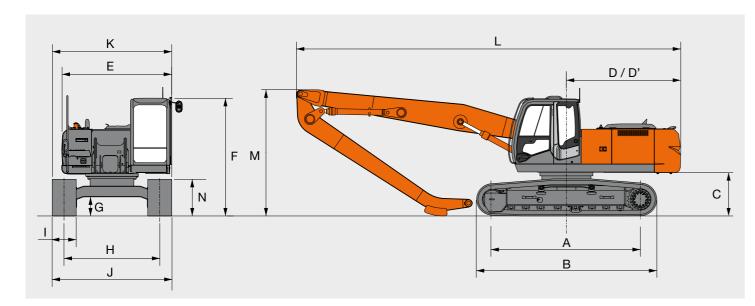
Cab type	Height	Step type	Operating weight	Ground pressure
Standard	-	-	23 000 kg	48.0 kPa (0.49 kgf/cm²)
	1.0 m Ladder		23 800 kg	49.0 kPa (0.50 kgf/cm²)
Fixed	1.5 m	Stair	24 100 kg	50.0 kPa (0.51 kgf/cm²)
	2.0 m	Stair	24 300 kg	50.0 kPa (0.51 kgf/cm²)
Linkage	2.5 m	-	25 000 kg	52.0 kPa (0.53 kgf/cm²)

SERVICE REFILL CAPACITIES

Fuel tank	400.0 L
Engine coolant	26.0 L
Engine oil	
Swing device	6.2 L
Travel device	6.8 L
(each side)	
Hydraulic system	240.0 L
Hydraulic oil tank	135.0 L

ZX210LC-3

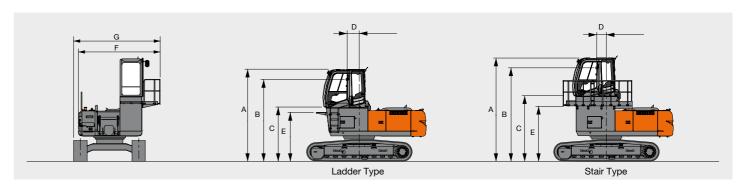
STANDARD CAB



		Unit: mm
		ZX210LC-3
Α	Distance between tumblers	3 660
В	Undercarriage length	4 470
* C	Counterweight clearance	1 030
D	Rear-end swing radius	2 750
D'	Rear-end length	2 750
Е	Overall width of upperstructure	2 710
F	Overall height of cab	2 950
* G	Min. ground clearance	450
Н	Track gauge	2 390
- 1	Track shoe width with triple grouser shoes	600
J	Undercarriage width	2 990
K	Overall width	2 990
L	Overall length	9 520 (with 6.50 m boom, 4.95 m arm)
М	Overall height of boom	3 270 (with 6.50 m boom, 4.95 m arm
N	Track height with triple grouser shoes	920

*Excluding track shoe lug.

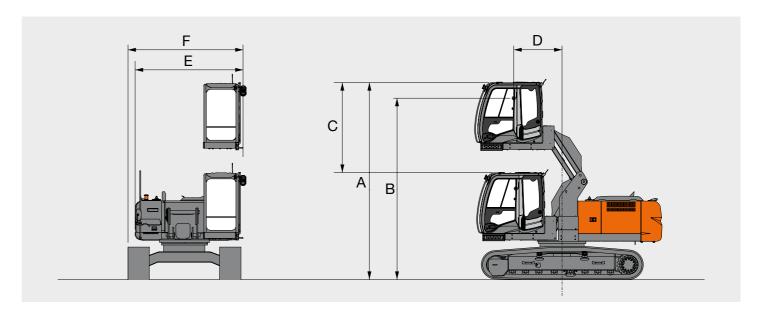
FIXED CAB



Unit: mm

		ZX210LC-3	
Height	1.0 m	1.5 m	2.0 m
Step Type	Ladder Type	Stair	Туре
A Overall height of cab	3 950	4 490	4 990
B Operator's view point	3 530	4 030	4 530
C Floor height	2 330	2 830	3 330
D Operator's view between swing center	480	370	370
E Step height	2 090	2 470	2 470
F Overall width of upperstructure	2 890	3 4	180
G Overall width	3 130	3 7	720

LINKAGE CAB



Unit: mm

		ZX210LC-3
Α	Overall height of cab	2 950 to 5 450
В	Operator's view point	2 500 to 5 000
С	Lift stroke	2 500
D	Operator's view between swing center	1 270 to 1 330
Е	Overall width upperstructure (Including step)	2 820
F	Overall width (Including step)	3 060

ZX210LC-3

WORKING RANGES meter 14 12 10 С 2 0 Ground Line В 6 12 10 8 6 2 meter Α

	Unit: mm
	ZX210LC-3
Boom length	6.50 m
Arm length	4.95 m
A Max. working reach (arm point)	11 000
B Max. working depth (arm point)	5 680
C Max. working height (arm point)	12 280
D Min. swing radius at max. height (arm point)	3 190

LIFTING CAPACITIES

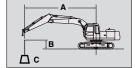
Notes: 1. Ratings are based on ISO 10567.

2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.



*Indicates load limited by hydraulic capacity.

5. 0 m = Ground.



A: Load radius B: Load point height

C: Lifting capacity

*2.7 2.3 11.0

*2.8 2.3 10.9

*3.0 2.3 10.7

*3.2 2.4 10.3

*3.0 2.6 9.9

*2.8 *2.8 9.3

*2.4 *2.4 8.6

ZX210LC-	3									II Rat	ing over	r-front			Ratin	g over-	side or	360 de	grees		Unit: 1	1 000kg
	Load radius									At max. reach												
Conditions	point	3	m	4	m	5	m	6	m	7	m	8	m	9	m	10	m	11	m	Att	iiax. ie	acii
00.101010	height	ů	©	ů	©	ů	©	ů		ů		ů	@	Ů		Ů	•	ů		ů	@	Meters 6.0 7.3 8.3 9.1 9.7 10.2 10.6 10.8
Boom: 6.50 m	11 m					*4.2	*4.2													*3.1	*3.1	6.0
Arm: 4.95 m	10 m					*5.0	*5.0	*4.3	*4.3	*3.3	*3.3									*2.8	*2.8	7.3
Counterweight:								*4.8	*4.8	*4.3	*4.3	*3.1	*3.1							*2.6	*2.6	8.3
6 300 k Shoe: 600 mm	8 m							*4.7	*4.7	*4.5	*4.5	*4.1	*4.1	*2.7	*2.7					*2.5	*2.5	9.1
	7 m					*5.1	*5.1	*4.8	*4.8	*4.5	*4.5	*4.3	4.1	*3.7	3.4					*2.4	*2.4	9.7
	6 m					*5.4	*5.4	*5.0	*5.0	*4.7	*4.7	*4.4	4.1	*4.1	3.4	*2.8	2.8			*2.4	*2.4	10.2
	5 m			*6.6	*6.6	*5.9	*5.9	*5.3	*5.3	*4.9	*4.9	*4.5	4.0	*4.2	3.3	*3.6	2.8			*2.4	*2.4	10.6
	4 m	*9.4	*9.4	*7.7	*7.7	*6.5	*6.5	*5.7	*5.7	*5.1	4.8	*4.7	3.9	*4.3	3.3	*4.0	2.8			*2.4	2.4	10.8
	3 m	*11.8	*11.8	*8.9	*8.9	*7.2	*7.2	*6.2	5.8	*5.4	4.6	*4.8	3.8	*4.4	3.2	*4.0	2.7			*2.5	2.3	11.0
	2 m	*6.3	*6.3	*10.0	*10.0	*7.9	7.2	*6.6	5.6	*5.7	4.5	*5.0	3.7	*4.5	3.1	4.0	2.7	*2.7	2.3	*2.6	2.3	11.0

1 m *3.1 *3.1 *8.6 *8.6 *8.3 6.9 *6.8 5.4 *5.8 4.3 *5.1 3.6 *4.5 3.0 3.9 2.6

0 m *2.8 *2.8 *5.6 *5.6 *8.5 6.6 *7.0 5.2 *5.9 4.2 *5.1 3.5 *4.5 3.0 3.9 2.6

-1 m *3.0 *3.0 *4.9 *4.9 *8.4 6.5 *6.9 5.0 *5.9 4.1 *5.0 3.4 *4.4 2.9 *3.7 2.5

-2 m *3.3 *3.3 *4.8 *4.8 *8.0 6.4 *6.7 5.0 *5.6 4.0 *4.8 3.4 *4.1 2.9 *3.4 2.5

-3 m *3.6 *3.6 *5.0 *5.0 *7.4 6.4 *6.2 4.9 *5.2 4.0 *4.5 3.4 *3.7 2.9

*5.8 *5.8 *5.2 *5.2 *4.5 *4.5 *3.8 *3.8 *3.0 *3.0

ZX210LC-3

STANDARD EQUIPMENT

ENGINE

- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel double filters
- Air cleaner double filters
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Fuel cooler
- Electrical fuel feed pump
- Engine oil drain coupler

HYDRAULIC SYSTEM

- Work mode selector
- Power boost
- Auto power lift - Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve
- Additional pump
- Boom hose rupture valves
- Arm hose rupture valves
- Attachment basic piping
- Assist piping

CAB

- CRES II (Center pillar reinforced structure) cab - OPG top guard fitted Level I
- (ISO10262) compliant cab - All-weather sound suppressed
- steel cab - Equipped with reinforced, tinted (green color) glass windows
- Upper front window can be opened - 4 fluid-filled elastic mounts
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto control air conditioner
- Retractable seat belt
- Drink holder
- Cigarette lighter
- Ashtray - Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch
- Alarm: Overload warning device
- Front window lower guard
- Front window upper guard

MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock

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

UNDERCARRIAGE

- Travel parking brake

- Travel motor covers

- 1 track guard (each side) and

- 600 mm triple grouser shoes

- Reinforced resin thrust plate

- Centralized lubrication system

- 6.50 m boom and 4.95 m arm

- Dirt seal on all bucket pins

- Arm top piping stop valve

- Lockable machine covers

- Lockable fuel refilling cap

- Theft deterrent system

- Skid-resistant tapes, plates

- Travel direction mark on track

- Onboard information controller

- Arm top piping guard

MISCELLANEOUS

- Standard tool kit

and handrails

- Reinforced track links with pin seals

hydraulic track adjuster

- Upper and lower rollers

- 4 tie down hooks

- HN bushing

- Flanged pin

- Other displays: work mode, auto-idle, glow, rearview monitor (when optional rear view camera is - Bolt-on sprocket equipped), operating conditions,
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work FRONT ATTACHMENTS mode, overload, etc
- Alarm buzzers: overheat, engine oil pressure, overload

LIGHTS

- 4 working lights Base machine x 1 Boom left side x 1 Arm x 2 (with covers)

UPPERSTRUCTURE

- Undercover
- 6 300 kg counterweight
- Fuel level float
- Hydraulic oil level gauge - Tool box
- Utility space
 - Rear view mirror (right & left side)
 - Swing parking brake
- Electric fuel refilling pump with auto stop
- Rear view camera
- 150 Ah batteries

OPTIONAL EQUIPMENT

CAB

- Laminated round glass window
- FOPS guard
- Air suspension seat with heater
- Rain guard
- Sun visor - 12 V power source

LIGHTS

- Additional cab roof front lights
- Additional cab roof rear light
- Boom right side light with cover

UNDERCARRIAGE

- 2 track guards
- Track undercover

ATTACHMENTS

- Pilot accumulator
- High mesh full flow filter with restriction indicator

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

OTHERS

- Fixed cab
- Linkage cab (With under view mirror)
- Alarm: Swing motion alarm device with lamps, Travel motion alarm device

ZX250LC-3

ENGINE	
Model	Isuzu AH-4HK1X
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	4
Rated power	
ISO 9249, net	132 kW (177 HP) at 2 000 min-1 (rpm)
ECC 80/1269, net	132 kW (177 HP) at 2 000 min-1 (rpm)
SAE J1349, net	132 kW (177 HP) at 2 000 min-1 (rpm)
Maximum torque	673 N·m (69 kgf·m) at 1 500 min-1 (rpm)
Piston displacement	5.193 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

• Work mode selector

Digging mode / Attachment mode

Hydraulic control

Engine speed sensing system

Maximum oil flow.. 34 L/min

Pilot pump...... 1 gear pump

Maximum oil flow.. 34 L/min

Hydraulic Motors

Travel	. 2 variable displacement axial piston motors
Swing	. 1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	32.4 MPa (330 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power hoost	36.3 MPa (370 kgf/cm²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

CONTROLS

Pilot controls. Hitachi's original shockless valve.

Travel levers with pedals 2

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed...... 13.5 min-1 (rpm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for good visibility. Openable front windows (upper and lower). Reclining seat with armrests; adjustable with or without control levers.

* International Standardization Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. Heat-treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

Numbers of Rollers and Shoes on Each Side

51

Upper rollers
Lower rollers
Track shoes
Track guard

Travel Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable.

Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel.

Automatic transmission system: High-Low.

Travel speeds...... High: 0 to 5.5 km/h

Low: 0 to 3.4 km/h

Maximum traction force 222 kN (22 650 kgf)

WEIGHTS AND GROUND PRESSURE

ZX250LC-3:

Equipped with 7.00 m boom, 6.00 m arm and 600 mm triple grouser shoe.

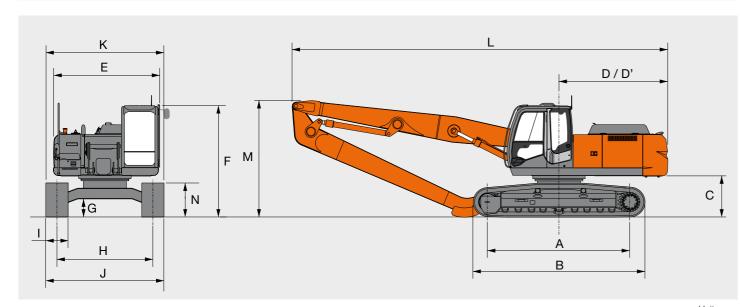
Cab type	7. 0 . 7.		Operating weight	Ground pressure
Standard			26 100 kg	52.0 kPa (0.53 kgf/cm²)
	1.0 m	Ladder	26 900 kg	54.0 kPa (0.55 kgf/cm²)
Fixed	1.5 m	Stair	27 200 kg	54.0 kPa (0.55 kgf/cm²)
	2.0 m	Stair	27 400 kg	55.0 kPa (0.56 kgf/cm²)
Linkage	2.5 m	-	28 100 kg	56.0 kPa (0.57 kgf/cm²)

SERVICE REFILL CAPACITIES

Fuel tank Engine coolant Engine oil Swing device Travel device	
(each side) Hydraulic system	

ZX250LC-3

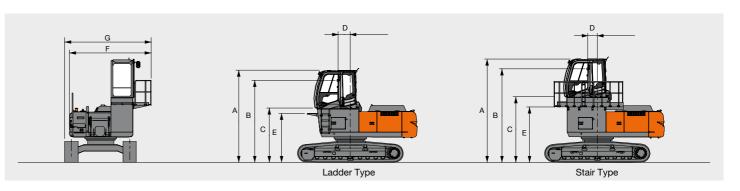
STANDARD CAB



		Unit: mm
		ZX250LC-3
Α	Distance between tumblers	3 845
В	Undercarriage length	4 640
* C	Counterweight clearance	1 090
D	Rear-end swing radius	2 940
D'	Rear-end length	2 940
Е	Overall width of upperstructure	2 890
F	Overall height of cab	3 010
* G	Min. ground clearance	460
Н	Track gauge	2 590
- 1	Track shoe width with triple grouser shoes	600
J	Undercarriage width	3 190
K	Overall width	3 190
L	Overall length	10 400 (with 7.00 m boom, 6.00 m arm)
М	Overall height of boom	3 400 (with 7.00 m boom, 6.00 m arm)
N	Track height with triple grouser shoes	920

*Excluding track shoe lug.

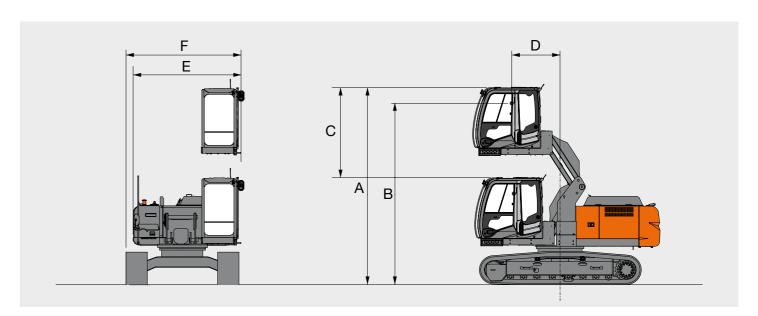
FIXED CAB



Unit: mm

ZX250LC-3							
Height	1.0 m	1.5 m	2.0 m				
Step Type	Ladder Type	Stair Type					
A Overall height of cab	4 010	4 510	5 010				
B Operator's view point	3 600	4 100	4 600				
C Floor height	2 360	2 860	3 360				
D Operator's view between swing center	530	420	420				
E Step height	2 160	2 560	2 560				
F Overall width of upperstructure	3 060	3 650					
G Overall width	3 260	3 850					

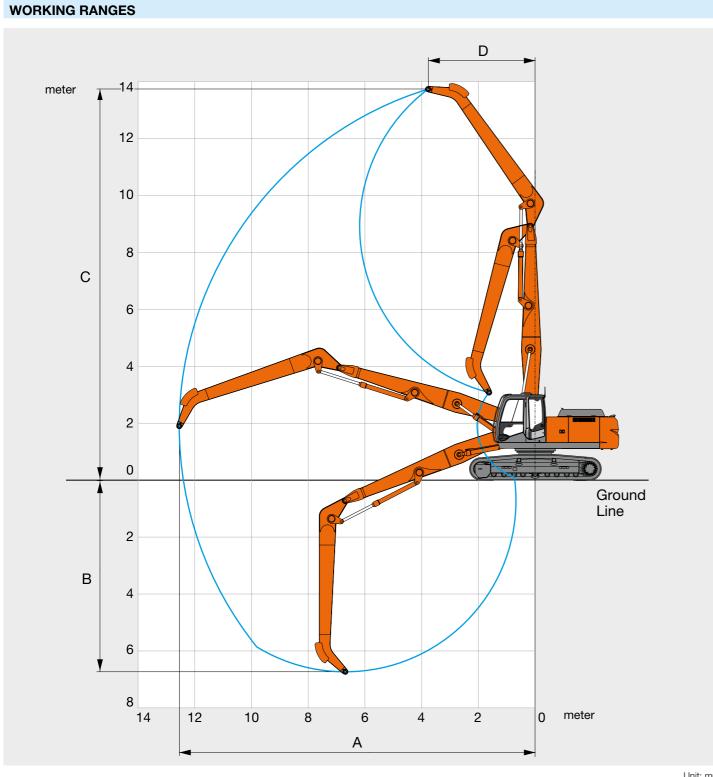
LINKAGE CAB



Unit: mm

		ZX250LC-3
Α	Overall height of cab	3 010 to 5 510
В	Operator's view point	2 570 to 5 070
С	Lift stroke	2 500
D	Operator's view between swing center	1 320 to 1 380
Е	Overall width upperstructure (Including step)	3 040
F	Overall width (Including step)	3 240

ZX250LC-3

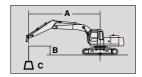


	Offic. Hill
	ZX250LC-3
Boom length	7.00 m
Arm length	6.00 m
A Max. working reach (arm point)	12 500
B Max. working depth (arm point)	6 700
C Max. working height (arm point)	13 710
D Min. swing radius at max. height (arm point)	3 770

LIFTING CAPACITIES

- Notes: 1. Ratings are based on ISO 10567.

 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of 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.
 - 5. 0 m = Ground.



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

Rating over-front Rating over-side or 360 degrees ZX250LC-3 Unit: 1 000kg

	Load	Load radius												At max, reach										
Conditions	point	3	m	4	m	5	m	6	m	7	m	8	m	9	m	10	m	11	m	12	m	ALI	ilax. re	acri
	height	Ů		ů		ů		Ů		Ů		ů		ů		ů		ů		ů		ů		Meters
Boom: 7.00 m	13 m					*3.9	*3.9															*3.3	*3.3	5.6
Arm: 6.00 m	12 m							*4.0	*4.0	*3.1	*3.1											*2.8	*2.8	7.3
Counterweight: 7 900 kg	11 m							*4.6	*4.6	*4.0	*4.0	*3.1	*3.1									*2.5	*2.5	8.5
7 900 kg Shoe: 600 mm	10 m									*4.5	*4.5	*3.9	*3.9	*3.0	*3.0							*2.3	*2.3	9.5
	9 m									*4.5	*4.5	*4.3	*4.3	*3.7	*3.7	*2.6	*2.6					*2.2	*2.2	10.3
	8 m									*4.5	*4.5	*4.3	*4.3	*4.1	*4.1	*3.4	*3.4					*2.1	*2.1	10.9
	7 m							*4.9	*4.9	*4.6	*4.6	*4.4	*4.4	*4.2	*4.2	*4.0	3.8	*2.8	*2.8			*2.1	*2.1	11.4
	6 m							*5.1	*5.1	*4.8	*4.8	*4.5	*4.5	*4.3	*4.3	*4.0	3.7	*3.4	3.1			*2.1	*2.1	11.8
	5 m					*6.0	*6.0	*5.5	*5.5	*5.1	*5.1	*4.7	*4.7	*4.4	4.4	*4.1	3.7	*3.8	3.1	*2.3	*2.3	*2.1	*2.1	12.1
	4 m			*7.9	*7.9	*6.8	*6.8	*6.0	*6.0	*5.4	*5.4	*4.9	*4.9	*4.5	4.3	*4.2	3.6	*3.9	3.0	*2.8	2.6	*2.1	*2.1	12.3
	3 m	*12.1	*12.1	*9.3	*9.3	*7.6	*7.6	*6.5	*6.5	*5.8	*5.8	*5.1	5.0	*4.7	4.1	*4.3	3.5	*3.9	3.0	*3.1	2.6	*2.1	*2.1	12.5
	2 m	*14.8	*14.8	*10.7	*10.7	*8.5	*8.5	*7.1	*7.1	*6.1	5.8	*5.4	4.8	*4.8	4.0	*4.3	3.4	*4.0	2.9	*3.3	2.5	*2.2	*2.2	12.5
	1 m	*3.8	*3.8	*11.8	*11.8	*9.1	9.1	*7.5	7.0	*6.4	5.6	*5.5	4.6	*4.9	3.9	*4.4	3.3	*4.0	2.8	*3.4	2.5	*2.3	*2.3	12.5
	0 m	*2.8	*2.8	*6.1	*6.1	*9.5	8.7	*7.8	6.7	*6.6	5.4	*5.7	4.4	*5.0	3.8	*4.4	3.2	*3.9	2.8	*3.4	2.4	*2.4	2.3	12.4
	-1 m	*2.8	*2.8	*4.9	*4.9	*9.6	8.3	*7.8	6.5	*6.6	5.2	*5.7	4.3	*5.0	3.7	*4.3	3.1	*3.8	2.7	*3.0	2.4	*2.5	2.4	12.2
	-2 m	*3.0	*3.0	*4.6	*4.6	*7.9	*7.9	*7.7	6.3	*6.5	5.1	*5.6	4.2	*4.8	3.6	*4.2	3.1	*3.6	2.7			*2.7	2.4	11.9
	-3 m	*3.2	*3.2	*4.6	*4.6	*7.3	*7.3	*7.4	6.2	*6.2	5.0	*5.3	4.2	*4.6	3.6	*3.9	3.1	*3.3	2.7			*2.9	2.6	11.5
	-4 m	*3.5	*3.5	*4.8	*4.8	*7.2	*7.2	*6.8	6.2	*5.8	5.0	*4.9	4.2	*4.2	3.5	*3.5	3.1	*2.7	2.7			*2.7	*2.7	11.0
	-5 m	*3.8	*3.8	*5.1	*5.1	*7.1	*7.1	*6.0	*6.0	*5.1	5.0	*4.3	4.2	*3.6	3.6	*2.8	*2.8					*2.5	*2.5	10.4
	-6 m			*5.5	*5.5	*5.7	*5.7	*4.9	*4.9	*4.2	*4.2	*3.5	*3.5	*2.7	*2.7									

ZX250LC-3

STANDARD EQUIPMENT

ENGINE

- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel double filters
- Air cleaner double filters
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Fuel cooler
- Electrical fuel feed pump
- Engine oil drain coupler

HYDRAULIC SYSTEM

- Work mode selector
- Power boost
- Auto power lift
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve
- Additional pump
- Boom hose rupture valves
- Arm hose rupture valves
- Attachment basic piping
- Assist piping

CAB

- CRES II (Center pillar reinforced structure) cab
- OPG top guard fitted Level I (ISO10262) compliant cab - All-weather sound suppressed
- steel cab - Equipped with reinforced, tinted
- (green color) glass windows - Upper front window can be opened
- 4 fluid-filled elastic mounts
- Intermittent windshield wipers - Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto control air conditioner
- Retractable seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box - Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch
- Alarm: Overload warning device
- Front window lower guard
- Front window upper guard

MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock

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

UNDERCARRIAGE

- Travel parking brake

- Travel motor covers

- 1 track guard (each side) and

- 600 mm triple grouser shoes

- Reinforced resin thrust plate

- Centralized lubrication system

- 7.00 m boom and 6.00 m arm

- Dirt seal on all bucket pins

- Arm top piping stop valve

- Lockable machine covers

- Lockable fuel refilling cap

- Theft deterrent system

- Skid-resistant tapes, plates

- Travel direction mark on track

- Onboard information controller

- Arm top piping guard

MISCELLANEOUS

- Standard tool kit

and handrails

- Reinforced track links with pin seals

hydraulic track adjuster

- Upper and lower rollers

- 4 tie down hooks

- HN bushing

- Flanged pin

- Other displays: work mode, auto-idle, glow, rearview monitor (when optional rear view camera is - Bolt-on sprocket equipped), operating conditions,
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work FRONT ATTACHMENTS mode, overload, etc
- Alarm buzzers: overheat, engine oil pressure, overload

LIGHTS

- 4 working lights Base machine x 1 Boom left side x 1 Arm x 2 (with covers)

UPPERSTRUCTURE

- Undercover
- 7 900 kg counterweight
- Fuel level float
- Hydraulic oil level gauge - Tool box
- Utility space
 - Rear view mirror (right & left side)
 - Swing parking brake
 - Electric fuel refilling pump with auto stop
 - Rear view camera
 - 150 Ah batteries

OPTIONAL EQUIPMENT

CAB

- Laminated round glass window
- FOPS guard
- Air suspension seat with heater
- Rain guard
- Sun visor - 12 V power source

LIGHTS

- Additional cab roof front lights - Additional cab roof rear light
- Boom right side light with cover

UNDERCARRIAGE

- 2 track guards
- Track undercover

ATTACHMENTS

- Pilot accumulator
- High mesh full flow filter with restriction indicator

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

OTHERS

- Fixed cab
- Linkage cab (With under view mirror)
- Alarm: Swing motion alarm device with lamps, Travel motion alarm device

ZX350LC-3

ENGINE	
Model	Isuzu AH-6HK1X
Туре	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 9249, net	202 kW (271 HP) at 1 900 min-1 (rpm)
ECC 80/1269, net	202 kW (271 HP) at 1 900 min-1 (rpm)
SAE J1349, net	202 kW (271 HP) at 1 900 min-1 (rpm)
Maximum torque	1 080 N·m (110 kgf·m) at 1 500 min-1 (rpm)
Piston displacement	7.790 L
Bore and stroke	115 mm x 125 mm
Batteries	2 x 12 V / 128 Ah

HYDRAULIC SYSTEM

• Work mode selector

Digging mode / Attachment mode

• Hydraulic control

Engine speed sensing system

Maximum oil flow.. 34 L/min

Pilot pump...... 1 gear pump

Maximum oil flow... 34 L/min

Hydraulic Motors

Travel	2 variable displacement axial piston motors
Swing	1 axial piston motor

Relief Valve Settings

Implement circuit	34.3 MPa (350 kgf/cm ²)
Swing circuit	32.4 MPa (330 kgf/cm²)
Travel circuit	34.3 MPa (350 kgf/cm²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power hoost	36.3 MPa (370 kgf/cm²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

CONTROLS

Pilot controls. Hitachi's original shockless valve.

Travel levers with pedals 2

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 10.7 min-1 (rpm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for good visibility. Openable front windows (upper and lower). Reclining seat with armrests; adjustable with or without control levers.

* International Standardization Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. 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 8	
Track shoes 48	3
Track guards 3	

Travel Device

Each track driven by 2-speed axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type. Travel shockless relief valve built in travel motor absorbs shocks when stopping travel. Automatic transmission system: High-Low.

Travel speeds...... High: 0 to 5.5 km/h Low: 0 to 3.2 km/h

Maximum traction force.... 298 kN (29 200 kgf)

WEIGHTS AND GROUND PRESSURE

ZX350LC-3: Standard Track

Equipped with 8.50 m boom, 6.20 m arm and 600 mm triple grouser shoe.

Cab type	Height	Step type	Operating weight	Ground pressure
Standard	-	-	35 600 kg	67.0 kPa (0.68 kgf/cm²)
	1.0 m	Ladder	36 400 kg	69.0 kPa (0.70 kgf/cm²)
Fixed	1.5 m	Stair	36 700 kg	69.0 kPa (0.70 kgf/cm²)
	2.0 m	Stair	36 900 kg	70.0 kPa (0.71 kgf/cm²)
Linkage	2.5 m	-	37 600 kg	71.0 kPa (0.72 kgf/cm²)

ZX350LC-3: Wide Track

Equipped with 8.50 m boom, 6.20 m arm and 600 mm triple grouser shoe.

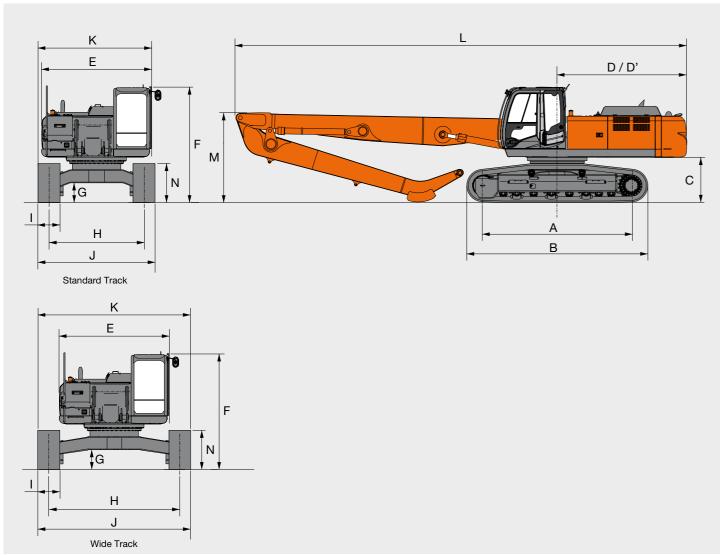
Cab type	Height	Step type	Operating weight	Ground pressure
Standard	-	-	36 600 kg	69.0 kPa (0.70 kgf/cm²)
	1.0 m	Ladder	37 400 kg	71.0 kPa (0.72 kgf/cm²)
Fixed	1.5 m	Stair	37 700 kg	71.0 kPa (0.72 kgf/cm²)
	2.0 m	Stair	37 900 kg	72.0 kPa (0.73 kgf/cm²)
Linkage	2.5 m	-	38 600 kg	73.0 kPa (0.74 kgf/cm²)

SERVICE REFILL CAPACITIES

Fuel tank	630.0 L
Engine coolant	
Engine oil	
Swing device	
Travel device	
(each side)	
Hydraulic system	374.0 L
Hydraulic oil tank	180.0 l

ZX350LC-3

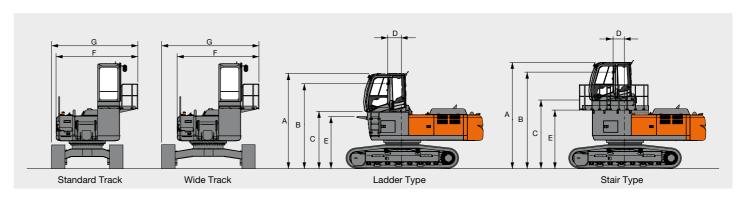
STANDARD CAB



			Unit: mm								
		ZX350LC-3									
		Standard Track	Wide Track								
A	Distance between tumblers	4	050								
В	Undercarriage length	4	940								
* C	Counterweight clearance	1	160								
D	Rear-end swing radius	3	540								
D'	Rear-end length	3	520								
Е	Overall width of upperstructure	2	2 990								
F	Overall height of cab	3	3 160								
* G	Min. ground clearance	ŧ	500								
Н	Track gauge	2 590	3 590								
- 1	Track shoe width with triple grouser shoes	6	600								
J	Undercarriage width	3 190	4 190								
K	Overall width	3 190	4 190								
L	Overall length		2 340 com, 6.20 m arm)								
М	Overall height of boom		690 oom, 6.20 m arm)								
N	Track height with triple grouser shoes	1	060								

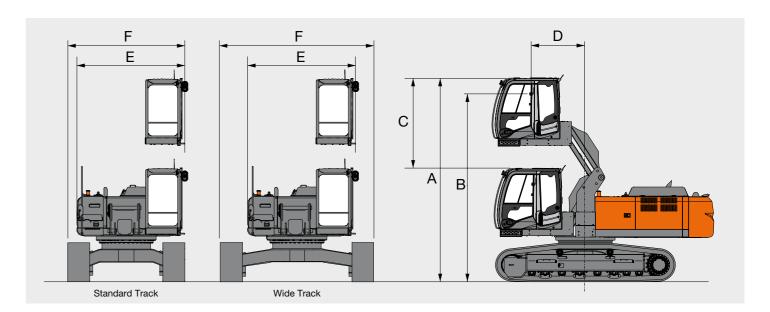
*Excluding track shoe lug.

FIXED CAB



Unit: mm ZX350LC-3 1.5 m Height 1.0 m 2.0 m Ladder Type Step Type Stair Type A Overall height of cab 4 160 5 160 4 660 B Operator's view point 4 730 3 730 4 230 C Floor height 2 520 3 020 3 520 D Operator's view between swing center 640 530 530 E Step height 2 290 2 690 2 690 F Overall width of upperstructure 3 170 3 770 3 270 / 4 190 G Overall width Standard Track / Wide Track 3 860 / 4 360

LINKAGE CAB

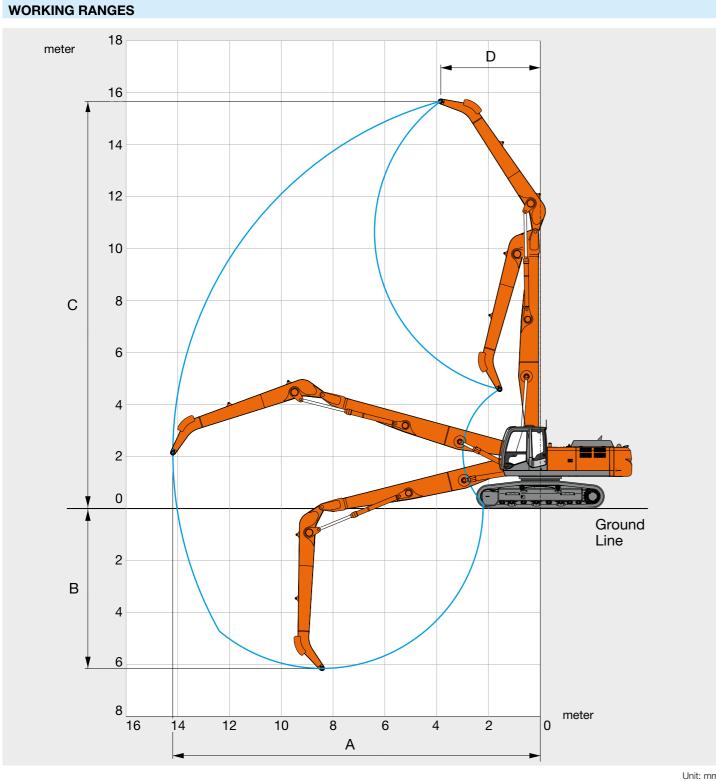


Unit: mm

25

	ZX350LC-3
A Overall height of cab	3 160 to 5 660
B Operator's view point	2 700 to 5 200
C Lift stroke	2 500
D Operator's view between swing center	1 430 to 1 490
E Overall width upperstructure (Including step)	3 160
F Overall width (Including step) Standard Track /	Wide Track 3 250 / 4 190

ZX350LC-3



	Unit: mm
	ZX350LC-3
Boom length	8.50 m
Arm length	6.20 m
A Max. working reach (arm point)	14 200
B Max. working depth (arm point)	6 150
C Max. working height (arm point)	15 660
D Min. swing radius at max. height (arm point)	3 850

LIFTING CAPACITIES

- Notes: 1. Ratings are based on ISO 10567.

 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of 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.
 - 5. 0 m = Ground.



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

ZX350LC -3	: Sta	anda	rd T	rack							Ū	Ratin	ng ove	r-front		(Rating	over-s	side or	360 d	egrees	3	l	Jnit: 1	000kg	
Conditions	Load	4	m	5	5 m 6 m		6 m		7 m		Load r) m	11	11 m 12 m 13 m 14 n		13 m 14 m		m	At n	At max. reach				
Conditions	height	ů	-	ů	©	ů	-	ů	-	ů	@	ů		ů	•	ů	©	ů	•••	ů	-	ů	•••	ů	©	Meters	
Boom: 8.50 m	15 m			*6.4	*6.4																			*5.6	*5.6	5.7	
Arm: 6.20 m	14 m					*6.7	*6.7	*5.6	*5.6															*4.8	*4.8	7.6	
Counterweight: 11 300 kg	13 m					*7.5	*7.5	*6.8	*6.8	*5.8	*5.8													*4.3	*4.3	9.0	
Shoe: 600 mm	12 m							*7.5	*7.5	*6.8	*6.8	*5.8	*5.8	*4.3	*4.3									*4.1	*4.1	10.1	
	11 m							*8.1	*8.1	*7.5	*7.5	*6.7	*6.7	*5.6	*5.6	*3.9	*3.9							*3.9	*3.9	11.0	
	10 m							*8.4	*8.4	*7.8	*7.8	*7.3	7.3	*6.5	6.2	*5.2	*5.2							*3.8	*3.8	11.8	
	9 m							*8.5	*8.5	*7.9	*7.9	*7.4	7.3	*6.9	6.1	*6.2	5.3	*4.6	4.5					*3.7	*3.7	12.4	
	8 m					*9.6	*9.6	*8.7	*8.7	*8.0	*8.0	*7.4	7.2	*6.9	6.1	*6.5	5.2	*5.5	4.5					*3.7	*3.7	12.9	
	7 m					*10.0	*10.0	*9.0	*9.0	*8.2	*8.2	*7.6	7.1	*7.0	6.0	*6.5	5.2	*6.1	4.5	*4.4	3.9			*3.6	*3.6	13.3	
	6 m			*12.0	*12.0	*10.5	*10.5	*9.4	*9.4	*8.5	8.3	*7.8	6.9	*7.1	5.9	*6.6	5.1	*6.1	4.4	*5.3	3.9			*3.7	3.6	13.6	
	5 m	*15.5	*15.5	*13.0	*13.0	*11.2	*11.2	*9.8	9.8	*8.8	8.0	*7.9	6.8	*7.3	5.8	*6.7	5.0	*6.1	4.4	*5.7	3.8			*3.7	3.4	13.9	
	4 m	*17.6	*17.6	14.1	*14.1	*11.9	11.8	*10.3	9.4	*9.1	7.8	*8.1	6.6	*7.4	5.6	*6.7	4.9	*6.2	4.3	5.6	3.8	*3.9	3.4	*3.7	3.3	14.1	
	3 m	*17.7	*17.7	*15.1	14.5	*12.5	11.2	*10.7	9.1	*9.3	7.5	*8.3	6.4	*7.5	5.5	*6.8	4.8	*6.2	4.2	5.6	3.7	*4.3	3.3	*3.8	3.3	14.2	
	2 m	*5.9	*5.9	*15.7	13.7	*12.9	10.7	*10.9	8.7	*9.5	7.3	*8.4	6.2	*7.5	5.3	*6.8	4.7	*6.1	4.1	*5.5	3.7	*4.6	3.3	*3.9	3.2	14.2	
	1 m	*4.2	*4.2	*8.9	*8.9	*13.0	10.3	*11.0	8.4	*9.5	7.0	*8.4	6.0	*7.5	5.2	*6.7	4.6	*6.0	4.1	*5.4	3.6	*4.6	3.3	*4.0	3.2	14.1	
	0 m	*3.9	*3.9	*7.0	*7.0	*12.8	10.0	*10.9	8.1	*9.4	6.8	*8.3	5.9	*7.4	5.1	*6.6	4.5	*5.8	4.0	*5.1	3.6	*4.3	3.2	*4.2	3.2	14.0	
	-1 m	*4.1	*4.1	*6.5	*6.5	*10.9	9.7	*10.6	8.0	*9.2	6.7	*8.1	5.8	*7.1	5.0	*6.3	4.4	*5.6	4.0	*4.8	3.6			*4.1	3.3	13.8	
	-2 m	*4.5	*4.5	*6.4	*6.4	*9.9	9.6	*10.0	7.9	*8.7	6.6	*7.7	5.7	*6.8	5.0	*6.0	4.4	*5.2	3.9	*4.4	3.5			*3.9	3.4	13.6	
	-3 m	*4.9	*4.9	*6.6	*6.6	*9.6	9.6	*9.2	7.8	*8.1	6.6	*7.1	5.6	*6.3	4.9	*5.5	4.4	*4.7	3.9	*3.8	3.6			*3.5	*3.5	13.2	
	-4 m	*5.4	*5.4	*7.0	*7.0	*9.2	*9.2	*8.2	7.8	*7.3	6.5	*6.4	5.6	*5.6	4.9	*4.8	4.4	*4.0	3.9					*3.2	*3.2	12.8	
	-5 m			*7.4	*7.4	*7.7	*7.7	*7.0	*7.0	*6.2	*6.2	*5.5	*5.5	*4.7	*4.7	*3.9	*3.9	*3.0	*3.0								
	-6 m							*5.5	*5.5	*4.9	*4.9	*4.3	*4.3														

ZX350LC-3: Wide Track

	Load																							Δtr	nax. re	aach
Conditions	point	4	m	5	m	6	m	7	m	8	m	9	m	10) m	11	m	12	m	13	m	14	m	Αι 1	ilax. It	acii
	height	ů	©	ů	•	ů	@	ů	©	ů	@	ů		ů	-	ů	@	ů	-	ů	-	ů	©	ů	•	Meters
Da a a a . 0 . 5 0 . a a	15 m			*6.4	*6.4																			*5.6	*5.6	5.7
Boom: 8.50 m Arm: 6.20 m	14 m					*6.7	*6.7	*5.6	*5.6															*4.8	*4.8	7.6
Counterweight:	13 m					*7.5	*7.5	*6.8	*6.8	*5.8	*5.8													*4.3	*4.3	9.0
11 300 kg Shoe: 600 mm	12 m							*7.5	*7.5	*6.8	*6.8	*5.8	*5.8	*4.3	*4.3									*4.1	*4.1	10.1
	11 m							*8.1	*8.1	*7.5	*7.5	*6.7	*6.7	*5.6	*5.6	*3.9	*3.9							*3.9	*3.9	11.0
	10 m							*8.4	*8.4	*7.8	*7.8	*7.3	*7.3	*6.5	*6.5	*5.2	*5.2							*3.8	*3.8	11.8
	9 m							*8.5	*8.5	*7.9	*7.9	*7.4	*7.4	*6.9	*6.9	*6.2	*6.2	*4.6	*4.6					*3.7	*3.7	12.4
	8 m					*9.6	*9.6	*8.7	*8.7	*8.0	*8.0	*7.4	*7.4	*6.9	*6.9	*6.5	*6.5	*5.5	*5.5					*3.7	*3.7	12.9
	7 m					*10.0	*10.0	*9.0	*9.0	*8.2	*8.2	*7.6	*7.6	*7.0	*7.0	*6.5	*6.5	*6.1	6.0	*4.4	*4.4			*3.6	*3.6	13.3
	6 m			*12.0	*12.0	*10.5	*10.5	*9.4	*9.4	*8.5	*8.5	*7.8	*7.8	*7.1	*7.1	*6.6	*6.6	*6.1	6.0	*5.3	5.2			*3.7	*3.7	13.6
	5 m	*15.5	*15.5	*13.0	*13.0	*11.2	*11.2	*9.8	*9.8	*8.8	*8.8	*7.9	*7.9	*7.3	*7.3	*6.7	*6.7	*6.1	5.9	5.5	5.2			*3.7	*3.7	13.9
	4 m	*17.6	*17.6	*14.1	*14.1	*11.9	*11.9	*10.3	*10.3	*9.1	*9.1	*8.1	*8.1	*7.4	*7.4	*6.7	6.6	*6.2	5.8	5.5	5.1	*3.9	*3.9	*3.7	*3.7	14.1
	3 m	*17.7	*17.7	*15.1	*15.1	*12.5	*12.5	*10.7	*10.7	*9.3	*9.3	*8.3	*8.3	*7.5	7.5	*6.8	6.5	6.1	5.7	5.4	5.1	*4.3	*4.3	*3.8	*3.8	14.2
	2 m	*5.9	*5.9	*15.7	*15.7	*12.9	*12.9	*10.9	*10.9	*9.5	*9.5	*8.4	*8.4	*7.5	7.3	*6.8	6.4	6.0	5.6	5.3	5.0	*4.6	4.5	*3.9	*3.9	14.2
	1 m	*4.2	*4.2	*8.9	*8.9	*13.0	*13.0	*11.0	*11.0	*9.5	*9.5	*8.4	8.3	*7.5	7.2	6.7	6.3	5.9	5.6	5.3	5.0	*4.6	4.5	*4.0	*4.0	14.1
	0 m	*3.9	*3.9	*7.0	*7.0	*12.8	*12.8	*10.9	*10.9	*9.4	*9.4	*8.3	8.1	*7.4	7.1	*6.6	6.2	*5.8	5.5	*5.1	4.9	*4.3	*4.3	*4.2	*4.2	14.0
	-1 m	*4.1	*4.1	*6.5	*6.5	*10.9	*10.9	*10.6	*10.6	*9.2	*9.2	*8.1	8.0	*7.1	7.0	*6.3	6.1	*5.6	5.5	*4.8	*4.8			*4.1	*4.1	13.8
	-2 m	*4.5	*4.5	*6.4	*6.4	*9.9	*9.9	*10.0	*10.0	*8.7	*8.7	*7.7	*7.7	*6.8	*6.8	*6.0	*6.0	*5.2	*5.2	*4.4	*4.4			*3.9	*3.9	13.6
	-3 m	*4.9	*4.9	*6.6	*6.6	*9.6	*9.6	*9.2	*9.2	*8.1	*8.1	*7.1	*7.1	*6.3	*6.3	*5.5	*5.5	*4.7	*4.7	*3.8	*3.8			*3.5	*3.5	13.2
	-4 m	*5.4	*5.4	*7.0	*7.0	*9.2	*9.2	*8.2	*8.2	*7.3	*7.3	*6.4	*6.4	*5.6	*5.6	*4.8	*4.8	*4.0	*4.0					*3.2	*3.2	12.8
	-5 m			*7.4	*7.4	*7.7	*7.7	*7.0	*7.0	*6.2	*6.2	*5.5	*5.5	*4.7	*4.7	*3.9	*3.9	*3.0	*3.0							
	-6 m							*5.5	*5.5	*4.9	*4.9	*4.3	*4.3													

ZX350LC-3

STANDARD EQUIPMENT

ENGINE

- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel double filters
- Air cleaner double filters
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Fuel cooler
- Electrical fuel feed pump
- Engine oil drain coupler

HYDRAULIC SYSTEM

- Work mode selector
- Power boost
- Auto power lift
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve
- Additional pump
- Boom hose rupture valves - Arm hose rupture valves
- Attachment basic piping
- Assist piping

CAB

- CRES II (Center pillar reinforced structure) cab
- OPG top guard fitted Level I (ISO10262) compliant cab - All-weather sound suppressed
- steel cab - Equipped with reinforced, tinted
- (green color) glass windows - Upper front window can be opened
- 4 fluid-filled elastic mounts
- Intermittent windshield wipers
- Front window washer - Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto control air conditioner
- Retractable seat belt
- Drink holder
- Cigarette lighter
- Ashtray - Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch
- Alarm: Overload warning device
- Front window lower guard
- Front window upper guard

MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock

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

UNDERCARRIAGE

- Travel parking brake

- Travel motor covers

hydraulic track adjuster

- Upper and lower rollers

- 4 tie down hooks

- HN bushing

- Flanged pin

- 3 track guards (each side) and

- 600 mm triple grouser shoes

- Reinforced resin thrust plate

- Centralized lubrication system

- 8.50 m boom and 6.20 m arm

- Dirt seal on all bucket pins

- Arm top piping stop valve

- Lockable machine covers

- Lockable fuel refilling cap

- Theft deterrent system

- Skid-resistant tapes, plates

- Travel direction mark on track

- Onboard information controller

- Arm top piping guard

MISCELLANEOUS

- Standard tool kit

and handrails

- Reinforced track links with pin seals

- Other displays: work mode, auto-idle, glow, rearview monitor (when optional rear view camera is - Bolt-on sprocket equipped), operating conditions,
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work FRONT ATTACHMENTS mode, overload, etc
- Alarm buzzers: overheat, engine oil pressure, overload

LIGHTS

- 4 working lights Base machine x 1 Boom left side x 1 Arm x 2 (with covers)

UPPERSTRUCTURE

- Undercover
- 11 300 kg counterweight
- Fuel level float
- Hydraulic oil level gauge - Tool box
- Utility space
 - Rear view mirror (right & left side)
 - Swing parking brake
 - Electric fuel refilling pump with auto stop
 - Rear view camera
 - 150 Ah batteries

OPTIONAL EQUIPMENT

CAB

- Laminated round glass window
- FOPS guard
- Air suspension seat with heater
- Rain guard
- Sun visor
- 12 V power source

LIGHTS

- Additional cab roof front lights
- Additional cab roof rear light
- Boom right side light with cover

UNDERCARRIAGE

- Track undercover

ATTACHMENTS

- Pilot accumulator
- High mesh full flow filter with restriction indicator

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

OTHERS

- Fixed cab
- Linkage cab (With under view mirror)
- Alarm: Swing motion alarm device with lamps, Travel motion alarm device
- Pre cleaner

ZX470LCH-3

ENGINE
ModelIsuzu AH-6WG1X
Type 4-cycle water-cooled, direct injection
Aspiration Turbocharged, intercooled
No. of cylinders 6
Rated power
ISO 9249, Without Fan net 260 kW (349 HP) at 1 800 min-1 (rpm) ECC 80/1269,
Without Fan net 260 kW (349 HP) at 1 800 min-1 (rpm) SAE J1349,
Without Fan net 260 kW (349 HP) at 1 800 min-1 (rpm)
Maximum torque 1 580 N·m (161 kgf·m) at 1 500 min-1 (rpm)
Piston displacement 15.681 L
Bore and stroke 147 mm x 154 mm
Batteries 2 x 12 V / 170 Ah

HYDRAULIC SYSTEM

- Work mode selector
- General purpose mode / Attachment mode
- Hydraulic control

Engine speed sensing system

Main pumps...... 2 variable displacement axial piston pumps

Maximum oil flow.. 2 x 360 L/min

Additional pump...... 1 gear pump

Maximum oil flow .. 30 L/min

Pilot pump...... 1 gear pump

Maximum oil flow.. 30 L/min

Hydraulic Motors

Travel	2 axial	piston	motors	with	parking	brake
Swing	2 axial	niston	motor			

Relief Valve Settings

Implement circuit	31.9 MPa (325 kgf/cm ²)
Swing circuit	28.4 MPa (290 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power hoost	34.3 MPa (350 kgf/cm²)

Hydraulic Cylinders

High-strength piston rods and tubes. Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends.

Hydraulic Filters

Hydraulic circuits use high-quality hydraulic filters. A suction filter is incorporated in the suction line, and full-flow filters in the return line and swing/travel motor drain lines.

CONTROLS

Pilot controls. HITACHI's original shockless valve. Implement levers...... 2

Travel levers with pedals 2

UPPERSTRUCTURE

Revolving Frame

Welded sturdy box construction, using heavy-gauge steel plates for ruggedness. D-section frame for resistance to deformation.

Swing Device

Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row, shear-type ball bearing with induction-hardened internal gear. Internal gear and pinion gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 9.0 min-1 (rpm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards. Reinforced glass windows on 4 sides for good visibility. Openable front windows (upper and lower). Reclining seat with armrests; adjustable with or without control levers.

* International Standardization Organization

UNDERCARRIAGE

Tracks

Tractor-type undercarriage. Welded track frame using selected materials. Side frame welded to track frame. Lubricated track rollers, idlers, and sprockets with floating seals.

Track shoes with triple grousers made of induction-hardened rolled alloy. 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 3
Lower rollers 9
Track shoes 53
Full track guard 1

Travel Device

Each track driven by axial piston motor through planetary reduction gear for counterrotation of the tracks. Sprockets are replaceable.

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

Automatic transmission system: High-Low.

Travel speeds High: 0 to 5.5 km/h Low: 0 to 3.4 km/h

Maximum traction force..... 322 kN (32 800 kgf)

WEIGHTS AND GROUND PRESSURE

ZX470LCH-3: Standard Track

Equipped with 9.50 m boom, 7.30 m arm and 600 mm triple grouser shoe.

Cab type	Height	Step type	Operating weight	Ground pressure							
Standard	-	-	51 300 kg	88.0 kPa (0.90 kgf/cm²)							
	1.0 m	Ladder	52 000 kg	89.0 kPa (0.91 kgf/cm²)							
Fixed	1.5 m	Stair	52 450 kg	90.0 kPa (0.92 kgf/cm²)							
	2.0 m	Stair	52 650 kg	90.0 kPa (0.92 kgf/cm²)							
Linkage	2.5 m	-	53 350 kg	91.0 kPa (0.93 kgf/cm²)							

ZX470LCH-3: Wide track

Equipped with 9.50 m boom, 7.30 m arm and 600 mm triple grouser shoe.

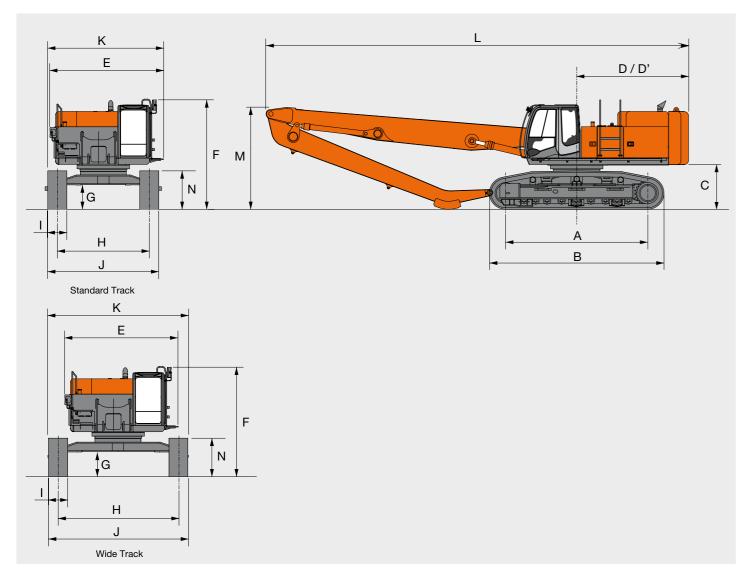
Cab type	Height	Step type	Operating weight	Ground pressure
Standard	-	-	52 950 kg	91.0 kPa (0.93 kgf/cm²)
Fixed	1.0 m	Ladder	53 650 kg	92.0 kPa (0.94 kgf/cm²)
	1.5 m	Stair	54 100 kg	93.0 kPa (0.95 kgf/cm²)
	2.0 m	Stair	54 300 kg	93.0 kPa (0.95 kgf/cm²)
Linkage	2.5 m	-	55 000 kg	94.0 kPa (0.96 kgf/cm²)

SERVICE REFILL CAPACITIES

Fuel tank	725.0 l
Engine coolant	
Engine oil	57.0 L
Swing device	6.5 L
Travel device (each side)	11.0 L
Hydraulic system	560.0 L
Hvdraulic oil tank	330.0 I

ZX470LCH-3

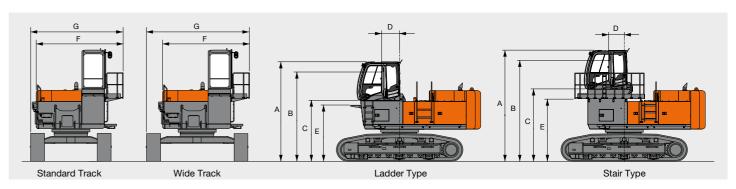
STANDARD CAB



			Unit: mm
		ZX470	LCH-3
		Standard Track	Wide Track
Α	Distance between tumblers	4 4	70
В	Undercarriage length	5 4	70
* C	Counterweight clearance	1 4	00
D	Rear-end swing radius	36	50
D'	Rear-end length	35	20
Е	Overall width of upperstructure (Including sidewalk)	35	30
F	Overall height of cab	3 460	3 510
* G	Min. ground clearance	76	60
Н	Track gauge	2 890	3 800
-	Track shoe width with triple grouser shoes	60	00
J	Undercarriage width	3 490	4 400
K	Overall width (Including sidewalk)	3 770	4 400
L	Overall length	13 4 (with 9.50 m boo	
М	Overall height of boom	3 3 (with 9.50 m boo	
N	Track height with triple grouser shoes	1 2	20

*Excluding track shoe lug.

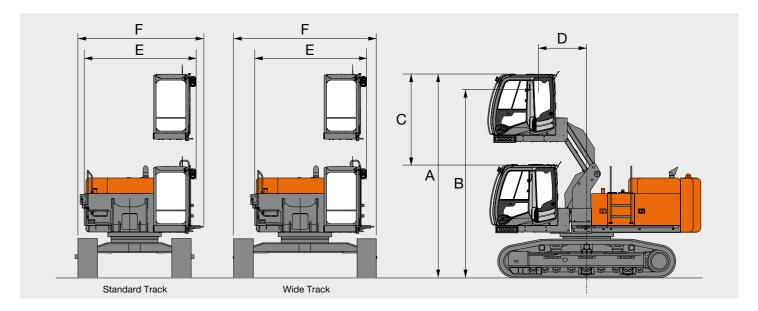
FIXED CAB



Linit: mm

	ZX470L0	CH-3 Standard Track / W	ide Track		
Height	1.0 m	1.5 m	2.0 m		
Step Type	Ladder Type	Stair	Туре		
A Overall height of cab	4 430 / 4 480	4 830 / 4 880	5 330 / 5 380		
B Operator's view point	3 880 / 3 930	4 380 / 4 430	4 880 / 4 930		
C Floor height	2 680 / 3 730	3 180 / 3 230	3 680 / 3 730		
D Operator's view between swing center	780	660	660		
E Step height	2 440 / 2 490	2 840 / 2 890	2 840 / 2 890		
F Overall width of upperstructure	3 550	3 8	330		
G Overall width	3 750 / 4 400	4 030	/ 4 490		

LINKAGE CAB

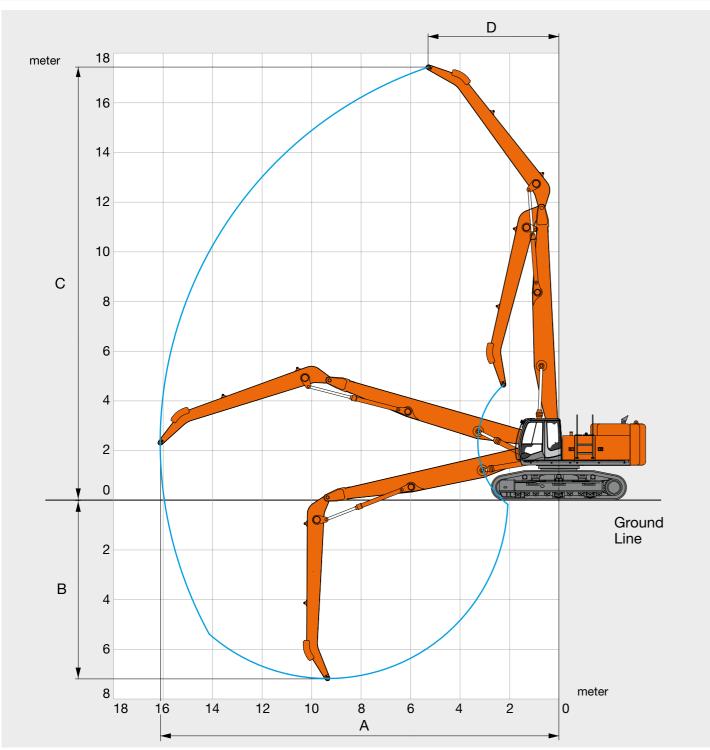


Unit: mm

	ZX470LCH-3 Standard Track / Wide Track
A Overall height of cab	3 330 to 5 830 / 3 380 to 5 880
B Operator's view point	2 850 to 5 350 / 2 880 to 5 380
C Lift stroke	2 500
D Operator's view between swing center	1 570 to 1 630
E Overall width upperstructure (Including sidewalk)	3 150
F Overall width (Including sidewalk)	3 770 / 4 400

ZX470LCH-3

WORKING RANGES



	Unit: mm
	ZX470LCH-3
Boom length	9.50 m
Arm length	7.30 m
A Max. working reach (arm point)	16 200
B Max. working depth (arm point)	7 210
C Max. working height (arm point)	17 500
D Min. swing radius at max. height (arm point)	5 300

LIFTING CAPACITIES

Notes: 1. Ratings are based on ISO 10567.

- 2. Lifting capacity of the ZAXIS Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of 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.
- 5. 0 m = Ground.

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

ZX470LCH-3: Standard Track

Conditions:
Boom: 9.50 m Arm: 7.30 m Counterweight: 13 650 kg Shoe: 600 mm Rating over-side or 360 degrees Rating over-front Unit: 1 000kg Load radius At max. reach 11 m 12 m 13 m 14 m 5 m 6 m 7 m 8 m 9 m 10 m point Meters height 17 m *6.3 *6.3 6.4 *5.4 *5.4 8.4 16 m *6.9 | *6.9 | *5.9 | *5.9 *4.9 *4.9 9.9 15 m *6.8 *6.8 *6.0 *6.0 *7.4 *7.4 *6.8 *6.8 *5.9 *5.9 *4.7 *4.7 *4.6 *4.6 11.1 14 m 13 m *7.8 | *7.8 | *7.3 | *7.3 | *6.7 | *6.7 | *5.8 | *5.8 | *4.5 | *4.5 | *4.4 | *4.4 | 12.0 *4.3 | *4.3 | 12.9 *7.8 | *7.8 | *7.3 | *7.3 | *6.5 | *6.5 | *5.5 | *5.5 | 12 m *4.2 *4.2 13.6 *8.4 *8.4 *8.2 *8.2 *7.7 *7.7 *7.1 *7.1 *6.3 *6.3 *5.1 *5.1 11 m 10 m *8.8 | *8.8 | *8.6 | *8.6 | *8.2 | *8.2 | *7.7 | *7.7 | *6.9 | *6.9 | *5.9 | *5.9 | *4.4 | *4.4 *4.1 *4.1 14.2 *4.0 *4.0 14.7 9 m | *9.2 | *9.2 | *9.1 | *9.1 | *8.8 | *8.8 | *8.3 | 8.2 | *7.6 | 7.1 | *6.6 | 6.2 | *5.3 | *5.3 *9.7 *9.7 *9.9 *9.9 *9.8 *9.8 *9.8 *9.2 *9.2 *8.6 8.1 *8.0 7.0 *7.2 6.2 *6.0 5.4 *4.2 *4.2 *4.0 *4.0 15.1 8 m *10.6 *10.6 *10.8 *10.8 *10.2 *10.2 *9.4 9.2 *8.7 7.9 *8.1 6.9 *7.5 6.1 *6.6 5.4 *5.0 4.8 *4.0 *4.0 15.4 7 m *11.6 *11.6 *12.1 *12.1 *11.5 *11.5 *10.5 *10.5 *10.5 *9.6 9.0 *8.8 7.8 *8.1 6.8 *7.5 6.0 *7.0 5.3 *5.6 4.7 *4.0 *4.0 15.7 6 m *12.8 *12.8 *14.2 *14.2 *14.9 *14.9 *14.9 *13.4 *13.4 *11.9 *11.9 *10.7 10.3 *9.7 8.8 *8.9 7.6 *8.2 6.7 *7.6 5.9 *7.0 5.3 *6.1 4.7 *4.1 *4.1 15.9 *24.3 *24.3 *19.4 *19.4 *16.2 *16.2 *16.2 *14.0 *14.0 *12.3 11.8 *11.0 10.0 *9.9 8.6 *9.0 7.4 *8.2 6.5 *7.6 5.8 *6.9 5.2 *6.3 4.6 4.3 4.2 *4.1 *4.1 16.1 9.3 9.3 20.5 20.5 20.5 16.9 16.9 14.4 13.7 12.6 11.4 11.1 9.7 10.0 8.3 9.1 7.3 8.3 6.4 7.5 5.7 6.9 5.1 6.2 4.6 4.6 4.1 4.2 4.1 16.1 *3.5 *3.5 *10.0 *10.0 *17.3 16.2 *14.7 13.1 *12.7 11.0 *11.2 9.3 *10.0 8.1 *9.1 7.1 *8.2 6.3 *7.5 5.6 *6.8 5.0 *6.1 4.5 4.8 4.1 *2.6 | *2.6 | *5.9 | *5.9 | *13.5 | *14.7 | 12.7 | *12.8 | 10.6 | *11.2 | 9.1 | *10.0 | 7.9 | *9.0 | 6.9 | *8.1 | 6.1 | *7.3 | 5.5 | *6.6 | 4.9 | *5.9 | 4.5 | 4.8 | 4.1 | *4.4 | 4.0 | 16.1 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | *1.2 | 2.5 2.5 2.6 4.8 4.8 9.1 9.1 14.5 12.3 12.6 10.3 11.1 8.8 9.8 7.7 8.8 6.8 7.9 6.0 7.1 5.4 6.4 4.9 5.6 4.4 *2.8 *2.8 *4.6 *4.6 *7.6 *7.6 *7.6 *14.0 12.0 *12.2 10.1 *10.7 8.6 *9.6 7.5 *8.5 6.7 *7.6 5.9 *6.8 5.3 *6.1 4.8 *5.2 4.4 *4.4 4.1 15.8 *3.2 *3.2 *4.7 *4.7 *7.2 *7.2 *11.8 11.8 *11.6 9.9 *10.3 8.5 *9.1 7.4 *8.1 6.6 *7.3 5.9 *6.4 5.3 *5.6 4.8 *4.7 4.4 *4.1 *4.1 15.6 *3.8 | *3.8 | 15.3 *4.1 *4.1 *5.3 *5.3 *7.3 *7.3 *10.7 *10.7 *9.8 9.7 *8.7 8.4 *7.8 7.3 *6.9 6.5 *6.1 5.8 *5.2 5.2 *4.3 *4.3 *3.4 *3.4 14.9 *5.8 *5.8 *7.6 *7.6 *9.4 *9.4 *8.5 *8.5 *7.7 *7.7 *6.8 *6.8 *6.0 *6.0 *5.2 *5.2 *4.4 *4.4 *3.4 *3.4 *2.9 *2.9 14.4 -5 m

*8.1 | *8.1 | *7.7 | *7.7 | *7.1 | *7.1 | *6.4 | *6.4 | *5.7 | *5.7 | *5.0 | *5.0 | *4.2 | *4.2 | *3.3 | *3.3 |

*5.4 *5.4 *4.9 *4.9 *4.3 *4.3 *3.6 *3.6

ZX470LCH-3: Wide Track

-6 m

-7 m

Conditions: Boom: 9.50 m Arm: 7.30 m Counterweight: 13 650 kg Shoe: 600 mm

Load														At max. reach																
point	4	m	5	m	6 m		7	m 8 m		m	m 9 n				11	m	12	m	13	m	14 m		15	15 m 16		6 m				
height	ů		ů	@	ů	@	ů	@	ů	@	ů		ů	@	ů	@	ů	@	ů	@	ů	@	ů	@	ů	@	ů	•	Meters	
17 m					*7.9	*7.9																					*7.3	*7.3	6.4	
16 m							*8.1	*8.1	*7.0	*7.0																	*6.4	*6.4	8.4	
15 m									*8.0	*8.0	*7.1	*7.1															*5.8	*5.8	9.9	
14 m									*8.7	*8.7	*8.0	*8.0	*7.0	*7.0	*5.6	*5.6											*5.5	*5.5	11.1	
13 m									*9.1	*9.1	*8.6	*8.6	*7.9	*7.9	*6.8	*6.8	*5.3	*5.3									*5.2	*5.2	12.0	
12 m											*9.1	*9.1	*8.5	*8.5	*7.7	*7.7	*6.5	*6.5									*5.1	*5.1	12.9	
11 m									*9.9	*9.9	*9.6	*9.6	*9.0	*9.0	*8.4	*8.4	*7.4	*7.4	*6.0	*6.0							*4.9	*4.9	13.6	
10 m									*10.3	*10.3	*9.7	*9.7	*9.0	*9.0	*8.5	*8.5	*7.9	*7.9	*7.0	*7.0	*5.2	*5.2					*4.9	*4.9	14.2	
9 m									*10.6	*10.6	*9.8	*9.8	*9.1	*9.1	*8.5	*8.5	*8.0	*8.0	*7.5	*7.5	*6.2	*6.2					*4.8	*4.8	14.7	
8 m							*11.4	*11.4	*10.8	*10.8	*10.0	*10.0	*9.2	*9.2	*8.6	*8.6	*8.0	*8.0	*7.5	*7.5	*7.0	*7.0	*5.0	*5.0			*4.8	*4.8	15.1	
7 m							*12.3	*12.3	*11.2	*11.2	*10.2	*10.2	*9.4	*9.4	*8.7	*8.7	*8.1	*8.1	*7.5	*7.5	*7.0	7.0	*5.9	*5.9			*4.8	*4.8	15.4	
6 m					*13.6	*13.6	*12.8	*12.8	*11.5	*11.5	*10.5	*10.5	*9.6	*9.6	*8.8	*8.8	*8.1	*8.1	*7.5	*7.5	*7.0	6.9	*6.4	6.2			*4.8	*4.8	15.7	
5 m	*15.0	*15.0	*16.7	*16.7	*15.4	*15.4	*13.4	*13.4	*11.9	*11.9	*10.7	*10.7	*9.7	*9.7	*8.9	*8.9	*8.2	*8.2	*7.6	*7.6	*7.0	6.8	*6.4	6.1			*4.8	*4.8	15.9	
4 m	*24.3	*24.3	*19.4	*19.4	*16.2	*16.2	*14.0	*14.0	*12.3	*12.3	*11.0	*11.0	*9.9	*9.9	*9.0	*9.0	*8.2	*8.2	*7.6	*7.6	*6.9	6.8	*6.3	6.1	*5.1	*5.1	*4.9	*4.9	16.1	
3 m	*9.3	*9.3	*20.5	*20.5	*16.9	*16.9	*14.4	*14.4	*12.6	*12.6	*11.1	*11.1	*10.0	*10.0	*9.1	*9.1	*8.3	*8.3	*7.5	7.5	*6.9	6.7	*6.2	6.0	*5.5	*5.5	*5.0	*5.0	16.1	
2 m	*3.5	*3.5	*10.0	*10.0	*17.3	*17.3	*14.7	*14.7	*12.7	*12.7	*11.2	*11.2	*10.1	*10.1	*9.1	*9.1	*8.2	*8.2	*7.5	7.3	*6.8	6.6	*6.1	6.0	*5.3	*5.3	*5.1	*5.1	16.2	
1 m	*2.6	*2.6	*5.9	*5.9	*13.5	*13.5	*14.7	*14.7	*12.8	*12.8	*11.2	*11.2	*10.0	*10.0	*9.0	*9.0	*8.1	8.1	*7.3	7.2	*6.6	6.5	*5.9	*5.9	*5.1	*5.1	*4.9	*4.9	16.1	
0 m	*2.5	*2.5	*4.8	*4.8	*9.1	*9.1	*14.5	*14.5	*12.6	*12.6	*11.1	*11.1	*9.8	*9.8	*8.8	*8.8	*7.9	*7.9	*7.1	*7.1	*6.4	*6.4	*5.6	*5.6			*4.7	*4.7	16.0	
-1 m	*2.8	*2.8	*4.6	*4.6	*7.6	*7.6	*14.0	*14.0	*12.2	*12.2	*10.7	*10.7	*9.6	*9.6	*8.5	*8.5	*7.6	*7.6	*6.8	*6.8	*6.1	*6.1	*5.2	*5.2			*4.4	*4.4	15.8	
-2 m	*3.2	*3.2	*4.7	*4.7	*7.2	*7.2	*11.8	*11.8	*11.6	*11.6	*10.3	*10.3	*9.1	*9.1	*8.1	*8.1	*7.3	*7.3	*6.4	*6.4	*5.6	*5.6	*4.7	*4.7			*4.1	*4.1	15.6	
-3 m	*3.7	*3.7	*5.0	*5.0	*7.1	*7.1	*10.9	*10.9	*10.8	*10.8	*9.6	*9.6	*8.5	*8.5	*7.6	*7.6	*6.7	*6.7	*5.9	*5.9	*5.1	*5.1	*4.1	*4.1			*3.8	*3.8	15.3	
-4 m	*4.1	*4.1	*5.3	*5.3	*7.3	*7.3	*10.7	*10.7	*9.8	*9.8	*8.7	*8.7	*7.8	*7.8	*6.9	*6.9	*6.1	*6.1	*5.2	*5.2	*4.3	*4.3					*3.4	*3.4	14.9	
-5 m			*5.8	*5.8	*7.6	*7.6	*9.4	*9.4	*8.5	*8.5	*7.7	*7.7	*6.8	*6.8	*6.0	*6.0	*5.2	*5.2	*4.4	*4.4	*3.4	*3.4					*2.9	*2.9	14.4	
-6 m					*8.1	*8.1	*7.7	*7.7	*7.1	*7.1	*6.4	*6.4	*5.7	*5.7	*5.0	*5.0	*4.2	*4.2	*3.3	*3.3										
-7 m									*5.4	*5.4	*4.9	*4.9	*4.3	*4.3	*3.6	*3.6														

ZX470LCH-3

STANDARD EQUIPMENT

- H/P mode control
- P mode control

ENGINE

- E mode control
- 50 A alternator
- Dry-type air double filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan quard
- Isolation-mounted engine
- Auto-idle system

HYDRAULIC SYSTEM

- Work mode selector
- Engine speed sensing system
- E-P control system
- Power boost
- Auto power lift
- Boom mode selector system
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Drain filter
- Quick warm-up system for pilot circuit
- Additional pump
- Boom hose rupture valves
- Arm hose rupture valves
- Attachment basic piping
- Assist piping

CAB

- CRES II (Center pillar reinforced structure) cab
- OPG top guard fitted Level I (ISO10262) compliant cab
- ROPS for Excavators compliant cab
- All-weather sound suppressed steel cab
- Tinted (green color) glass windows
- 6 fluid-filled elastic mounts
- Openable windows; upper and lower front, and left side
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining suspension seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Auto-idle selector
- Retractable Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Auto control air conditioner
- Pilot control shut-off lever
- Engine shut-off switch
- Alarm: Overload warning device
- Front window lower guard
- Front window upper guard

MONITOR SYSTEM

- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, autoidle, glow, rear view monitor, operating conditions, etc
- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc
- Alarm buzzers: overheat, engine oil pressure, overload

LIGHTS

4 working lights
 Base machine x 1
 Boom left side x 1
 Arm x 2

UPPERSTRUCTURE

- Undercover
- 13 650 kg counterweight
- Fuel level float
- Rear view camera
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake
- Ladder
- Electric fuel refilling pump with auto stop
- Electric grease gun with hose reel

UNDERCARRIAGE

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

- Travel parking brake
- Travel motor covers
- Full track guard (each side) and hydraulic track adjuster
- Idler track guard
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals
- 600 mm triple grouser shoes

FRONT ATTACHMENTS

- Pilot accumulator
- Flanged pin
- Centralized lubrication system
- Dirt seal on all bucket pins
- 9.50 m boom and 7.30 m arm
- Arm top piping stop valve
- Arm top piping guard

MISCELLANEOUS

- Standard tool kit
- Lockable machine covers
- Lockable fuel refilling cap
- Skid-resistant tapes, plates and handrails
- Travel direction mark on track frame
- Onboard information controller
- Theft deterrent system

OPTIONAL EQUIPMENT

CAR

- Air suspension seat with heater
- Rain guard
- Rain guar - Sun visor
- 12 V power source

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LIGHTS

- Additional cab roof front lights
- Additional cab roof rear lightBoom right side light with cover

UNDERCARRIAGE

- Track undercover

ATTACHMENTS

- Pilot accumulator
- High mesh full flow filter with restriction indicator

Optional equipment may vary by country, so please consult your Hitachi dealer for details.

OTHERS

- 01112110
- Fixed cab- Linkage cab
- (With under view mirror)
 Alarm: Swing motion alarm device with lamps, Travel motion alarm
- device - Pre cleaner

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 colour and features.

Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery

KA-EN078EU

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