ZAXIS GI series

TATA HITACHI

Reliable solutions

ZAXIS470H

HYDRAULIC EXCAVATOR

Model Code	: ZX 470H
Engine Rated Power	: 235 kW (315 HP)
Operating Weight	
Backhoe	: 47 100 kg
Loading Shovel	: 47 500 kg
Bucket Capacity	
Backhoe ISO Heaped	: 1.9 - 3.1 m^3
Loading Shovel ISO Heaped	: 2.6 m^3

NEW ZAXIS *Now, with the Power of GI*

A ZAXIS hallmark – industry-leading hydraulic technology, and performance no other can beat. The New ZAXIS-GI Series Excavators provide reliable solutions: impressive fuel economy, swift front movements, and easy operation. Another highlight in the new Zaxis-GI series is the optimized hydraulic system and engine which is the result of Hitachi's technological prowess and expertise. The New ZAXIS-GI Series features the key benefits of high power, high fuel efficiency and high durability, all of which serve to ensure best in class performance and low running costs.

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- Higher level of performance
- Lower fuel with higher productivity
- Sustainable efficiency
- Powerful efficiency

"No Compromise on Operator Comfort"
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- Large roomy cabin
- Enhanced visibility
- User friendly functionality, safe cabin
- Enjoy your work

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- Durable parts
- Environment friendly EPA Tier II engine
- Rock solid front attachment
- Strengthened undercarriage
- Proven superstructure

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- Easy access
- Easy servicing
- Easy cleaning
- Quick lubrication
- Large capacity fuel tank
- Low life cycle costs

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- Easy access to on-site machine through internet
- Reports in usable forms for analysis

Large Production with Less Fuel

Higher level of performance

Customers around the world told us that the ideal large excavator attains more production. So our engineers used the latest innovations to create the new generation of Tata Hitachi large excavators according to these criteria.

The new hydraulic system allows the operator to manoeuvre the machine easily and perform smooth combined operations quickly, whether the machine is digging or loading a dump truck.

The front speed is optmimset by reducing the pressure loss in circuits and the swing torque has increased by 9% campread to ZAXIS 450H. The speed of light-load operations such as grading has also been improved due to larger volume of hydraulic flow.

Lower fuel with higher production

The success of the business is influenced by the productivity and efficiency of the equipment. Ultimately, the investment in Tata Hitachi Construction Machinery can help to meet production targets and compete successfully to win tenders within your market.

In PWR mode, the ZAXIS 470H uses less fuel, while increasing the productivity as the ZAXIS 450H model in the same mode (power)*. All modes therefore result in faster operation, with lower fuel consumption.

Sustainable efficiency

The sustainable development of the Tata Hitachi product range to minimise its impact on the environment continues to be one of our main priorities.

To reduce emissions, prevent fuel wastage and lower noise levels in the cab, the ZAXIS 470H has an Auto Shut-down feature. This automatically drops the engine revolutions to low idle and then stops the engine after the pilot shut-off lever has been raised.

Powerful efficiency

The new ZAXIS 470H is equipped with a powerful new-generation engine, which delivers higher productivity with greater fuel efficiency. The new engine has a common rail-type fuel injection system, which delivers the precise quantity of pressurised fuel to achieve effective combustion and reduces fuel consumption and particulate matter.

The HIOS IIIB hydraulic system has also been applied to the new ZAXIS 470H to reach higher yields with better fuel consumption than the previous model.

Pursuits of Performance and Durability

Durable parts

Our large excavators have been designed to deliver increased levels of availability and productivity even on the toughest job sites. The aim behind manufacturing such durable machines was to ultimately ensure a lower cost of ownership for our customers. The strengthened boom and arm on each new ZAXIS 470H are highlights of the machine's enhanced durable characteristics. Both features allow it to cope well with working long hours in rugged environments.

A filter-type high-performance water separator effectively captures moisture in the fuel, reducing impurities and helping to minimise any fuel-related engine problems. Dual fuel main filters and pre-filters are provided as standard on the ZAXIS 470H to reduce fuel system failures.

The fuel injector is protected by diamond-like carbon (DLC) coating, which enhances its reliability and durability, and the engine has a twin-layer fuel main filter that doubles filtration performance.

Environment friendly EPA Tier II engine

This EPA Tier II engine has a track record showing impressive durability at countless tough job sites around the world. The engine - associated with a rugged design, a direct fuel injection system and an elaborate governor.

A simple cooling system, consisting of a radiator and oil cooler, facilitates smooth cooling air flow for improved cooling efficiency. The combination of a 235 kW (315 HP) engine and the new HIOS IIIB hydraulic system meets requirements, in terms of both output and fuel consumption.

Rock solid front attachment

The new ZAXIS adopts the boom and arm used for heavy-duty versions of the conventional ZAXIS series standard models to increase the strength, allowing it to function optimally at tough job sites such as mines / quarries / stone / granite, where an endless stream of operations are required. It also has a wide applicable scope by using a bucket for civil engineering work or one for quarrying, depending on the intended use.

The arm cylinder, boom cylinders and bucket cylinder for the retract side cushion shocks at the stroke ends to reduce noise and extend the service life.

Strengthened undercarriage

The new undercarriage is an integral construction, the track center and side frame of which are welded together. The lower center of gravity of the body improves stability. For idler brackets, where stress is concentrated in transit, the box-structure and reinforcing plates limit deformation and enhance travel stability. An enhanced twostep side step ladder is also provided to facilitate entering/alighting from the cab.

Proven superstructure

The upperstructure frame is reinforced with the proven D-section skirt to increase rigidity against damage by obstacles. A large door catch is added to reduce shocks and jolts of the cab and upperstructure.

No Compromise on Operator Comfort

Large roomy cabin

It's essential for you to feel comfortable while you work, especially if you are operating an excavator for lengthy periods of time in a mining/quarry or large-scale construction site. We had reviewed the ergonomic design of its ZAXIS 470H excavator cab to ensure that you can complete your shift with ease and enjoy the rest of your day.

The fully adjustable air-suspension seat absorbs vibrations and helps to minimise operator fatigue. Its new sliding mechanism means that it can be moved back further than ever before. More leg room is also available as the space underneath the monitor has been expanded. The pressurized cab keeps dust and particles from entering. Lots more air vents for air conditioner are located strategically for uniform air circulation inside the cab.

Enhanced visibility

Health and safety are of paramount importance in busy quarries and construction sites. With the latest innovations , the new ZAXIS 470H offers enhanced visibility, particularly on the right-hand side of the machine, to help you avoid any unnecessary damage, and ultimately save you time and money. The monitor and door have been repositioned, which improves your view and provides easier access to the cab. The excavator is also equipped with the latest rear-view camera (optional), giving you a broader visual range. The cabin is equipped with sunvisor for clear view and comfort of operator.

User-friendly functionality

The advance technology that is incorporated with in the new ZAXIS is one of its many advantages. The ergonomic controls and easy to view monitor place the power firmly in your hands. The new LCD monitor which displays a comprehensive range of useful technical information allows you to check the machine status and settings at a glance. For easy operation, the monitor and ergonomically designed switches have been repositioned and are both conveniently located on the right hand side of the cab. FOPS (falling Object Protection System) cab complying ISO 3449 level-I is standard. Option of ISO 3449 level-II cab is also available. Seat belt with reminder is provided as standard fitment.

Enjoy your work

By creating a relaxed and pleasant workspace, our aim was to make your day in the cab of the new ZAXIS more enjoyable and therefore more satisfying. If you enjoy listening to the radio as you work, you will find that the controls for the AM/FM stereo radio are now fully adjustable from the monitor. Alternatively, if you wish to plug in a USB, that facility is also provided to the sound system, so that you can work smoothly and efficiently to your favourite music.

Simplified Maintenance

Easy access

The design of the new ZAXIS 470H incorporates a range of convenient features for routine maintenance. They have been created by our engineers in order to save you time and make life a little less stressful. The fuel filters and engine oil filter can all be replaced from the excavator's walkway. Other work on the upper structure of the machine, like replacing the air cleaner, can be carried out easily.

Easy servicing

The new ZAXIS 470H is equipped with a solenoid fuel pump (optional), which means there is no need to pump manually if the engine stops due to lack of fuel or while the main fuel filter is being changed. The machine's utility space stores an electric grease pump, hose reel (optional) and tool box. This means that batteries and an electrical equipment box are conveniently located in one place.

Easy cleaning

To maximise productivity and ensure optimum levels of availability in the quarry/mining or on any construction site, we have introduced a variety of quick solutions to the new ZAXIS 470H for routine maintenance and cleaning. One example of these convenient features can be seen on the exterior of the machine, where the air conditioning condenser can be easily opened for cleaning the condenser and radiator located behind. The cleaning process is also easier thanks to the parallel positioning of the cooling package.

Fast lubrication

The arm and boom have their own centralized greasing points for fast lubrication. a stand center light lubrication system is provided for front attachment.

Large capacity fuel tank

Equipped with a 705 L large capacity fuel tank for longer operations. Solenoid fuel pump (optional) makes fuel filling faster.

Low life cycle costs

Service intervals are long enough to slash maintenance costs.

Remote Fleet Management with Global e-Service

Easy Access to On-Site Machines through the Internet

This on-line fleet management system allows you to access each on-site machine from a PC in your office. You can get its operating information and location to increase productivity of the fleet and reduce downtime. Operating data and log are sent to a Hitachi server for processing, and then to customer and dealers around the world. This system is available 24 hours a day, all the year around.

Main Features of Global e-Service

Functions

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

Maintenance

Maintenance data and log are displayed on a easy-to-read monitor screen, suggesting recommended maintenance for efficient fleet management.

Tata Hitachi Support Chain

A full customer supports system offered on buying a Tata Hitachi GI Series machine.

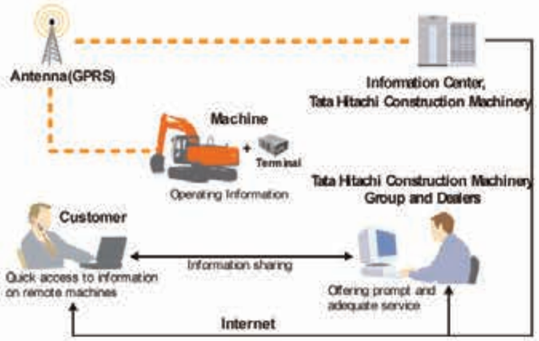
SUPPORT CHAIN

Remote Fleet Management with Global e-Service

Easy access to On-Site Machines through the internet

Global e Service is a convenient and simple system designed to give you valuable information regarding the operations, maintenance, system parameters and alarms of your machines from the convenience of your office. This system can be configured to give you a customised dash-board of the vital parameters that you would like to monitor, to increase productivity and reduce the downtime of your fleet.

The operating data and logs are sent to our servers for processing and then to customers and dealers around the world. This system is available 24 hours a day, all the year round and can be viewed on your laptops and mobile devices through the Internet.



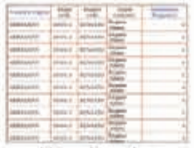
Note: In Some Regions, Global e-Service may not be Available due to Local Regulations

Main Features of Global e-Service

Global e Service provides easy access to a machine on site conveying operating information and log, including daily operating hours, operations, fuel levels, location, itemised maintenance scheduling, machine's technical parameters and alarm history.

Operation

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



Alarm function

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

Hour meter / Daily report

Daily machine operation hours and remaining fuel can be determined

Operation information

Hydraulic oil temperature, swing hours and other data are determined

Monitor your machines closely with ConSite

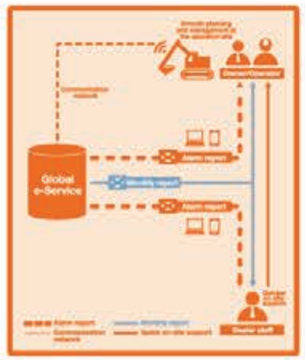
Data Services

ConSite

ConSite is a consolidated solution service that links you to your machines on the construction site. Through this system, we present your machine's key operational data with meaningful insights by tapping into Tata Hitachi's vast experience and database. There are two kinds report services:

- Consolidated monthly operation reports with advice via email.
- Alarm or emergency notifications via email.

These two reports allow you to visualise the operation status of your machine, improve the efficiency of machine management and work closer with Tata Hitachi.



A. Monthly Report

A Detailed monthly operational report helps you to analyse and improve the operational efficiency of your machine.

Key Items included in the report:

- Status of parameters affecting economy.
- Part wise operations time
- Recommended action

B. Alarm Report

If there is an alarm triggered in the machine and the problem requires urgent attention to prevent downtime, an emergency alarm report will be sent to the registered email addresses so that necessary measures can be taken. This information also flows to your authorised service representatives for smoother coordination and to reduce your machine's downtime.

Key items included in the report:

- Machine identification with hour meter details
- Alarm code / name
- Recommended action

The reports can be viewed on laptops, desktop computers, smartphones & tablets.

The calendar's format allows you to see the daily operation times of your machine with ease. This report helps you analyse the operation trend of each machine.

The daily operation report shows in detail when the machine is operating and idle time, which is represented by different colours in the 24-hour timeline.

Support Solutions

Full Maintenance Contract by Tata Hitachi is a fully customized service offering for customers having large fleet of machines. Designed to meet specific requirement of individual customers. It maximuzes the production by ensuring maximum machine utilization.

Objectives

- Maximuze Equipemnt Availability
- Mininize operating cost through planned maintenance
- Ennanced Reliability and maintainability through monitoring of MTTR and MTBF
- Technical skill development of customer personnel
- Extend Equipment life to maximize returns on investment

Benefits

- Higher Productivity through increased utilization
- Life cycle maintenance cost known at the start of the contract
- Allows customer to concentrate on their core activity
- Higher Equipment availability resulting in leaner fleet size
- Improved cost efficiency through higher utilization and extended equipment lif.
- Better resale value of equipment

SPECIFICATIONS

ENGINE

Model ..... Isuzu AA-6WG1TQA
Type ..... 4-cycle water-cooled, direct injection
Aspiration ..... Turbocharged
No. of cylinders 6
Rated power
ISO 9249, net ..... H/P mode:
(With Fan) 235 kW (315 HP) at 1 800 min-1 (rpm)
SAE J1349, net ..... H/P mode:
(With Fan) 231 kW (310 HP) at 1 800 min-1 (rpm)
Maximum torque ..... 1 275 Nm (130 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

Hydraulic Pumps
Main pumps ..... 2 variable displacement axial piston pumps
Maximum oil flow ..... 2 x 360 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 piston motors

Relief Valve Settings
Implement circuit ..... 31.9 MPa (325 kgf/cm^2)
Swing circuit ..... 28.4 MPa (290 kgf/cm^2)
Travel circuit ..... 35.3 MPa (360 kgf/cm^2)
Pilot circuit ..... 3.9 MPa (40 kgf/cm^2)
Power boost ..... 35.3 MPa (360 kgf/cm^2)

Hydraulic Cylinders

	Quantity	Bore Rod	Diameter
Boom	2	170 mm	115 mm
Arm	1	190 mm	130 mm
Bucket	1	170 mm	120 mm

UPPERSTRUCTURE

Revolving Frame
D-section frame for resistance to deformation

Swing Device
Axial piston motor with planetary reduction gear is bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.
Swing speed ..... 9.0 min-1 (rpm)

Operator's Cab
Independent spacious cab, 1 025 mm wide by 1 675 mm high, confirming to ISO* 3445 line level I Standard.
* International Organization for Standardization

UNDERCARRIAGE

Tracks
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 ..... Standard
Full guard optional

Travel Device
Each track driven by axial piston motor through reduction gear for counterrotation of the tracks. Parking brake is spring-set/hydraulicreleased disc type.

Automatic transmission system: High-Low.
Travel speeds ..... High : 0 to 5.1 km/h
Low : 0 to 3.8 km/h
Maximum traction force ..... 329 kN (33 600 kgf)
Gradeability ..... 70% (35 degree) continuous-

SOUND LEVEL
Sound level in cab according to ISO 6396 ..... LpA 75 dB(A)

SERVICE REFILL CAPACITIES

Fuel tank ..... 705.0 L
Engine coolant ..... 61.0 L
Engine oil ..... 55.0 L
Swing device (each side) ..... 6.5 L
Travel device (each side) ..... 11.0 L
Hydraulic system ..... 510.0 L
Hydraulic oil tank ..... 310.0 L

WEIGHTS AND GROUND PRESSURE

Equipped with 3.1m^3 GP bucket, 6.3m boom and 2.5m arm

Model	Operating weight	Ground pressure	
Zx470H Bachkoe	47 100 kg	0.894 kgf/sq cm^2	87.7 kPa
Zx470H Shovel	47 500 kg	0.902 kgf/sq cm^2	88.5 kPa

BUCKET AND ARM DIGGING FORCE

Boom length	6.3 m BE-boom	
Arm length	2.5 m BE-arm	2.9 m BE-arm
Bucket digging force* ISO	285 kN (29 130 kgf)	285 kN (29 130 kgf)
Bucket digging force* SAE : PCSA	257 kN (26 240 kgf)	257 kN (26 240 kgf)
Arm crowd force* ISO	294 kN (30 050 kgf)	256 kN (26 140 kgf)
Arm crowd force* SAE : PCSA	285 kN (29 130 kgf)	249 kN (25 420 kgf)

* At power boost

SPECIFICATIONS

BACKHOE BUCKETS

Sl. No.	Capacity	Width		No.of teeth	Weight	Recommended maximum material density	Recommendation	
		Without side cutter	With side cutter				6.3 m Boom	
							2.5 m Arm	2.9 m Arm
1	3.1m^3	1722 mm	1862 mm	5	2310 kg	1800 kg/m^3	✓	✗
2	3.0m^3	1762 mm	1902 mm	5	2055 kg	1800 kg/m^3	✓	✗
3	2.8m^3	1682 mm	1822 mm	5	1920 kg	1800 kg/m^3	O	✓
4	2.5m^3	1760 mm	1826 mm	5	2560 kg	2000 kg/m^3	✓	✓
5	1.9m^3	1400 mm	1466 mm	5	2083 kg	Boulders	✓	✓

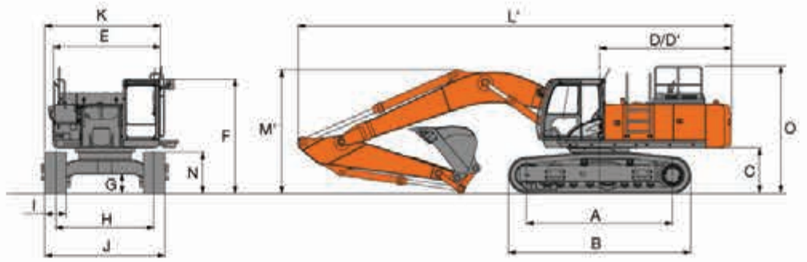
✓ Option is available O Option is technically feasible but generally not offered * ISO heat

LOADING SHOVEL BUCKET

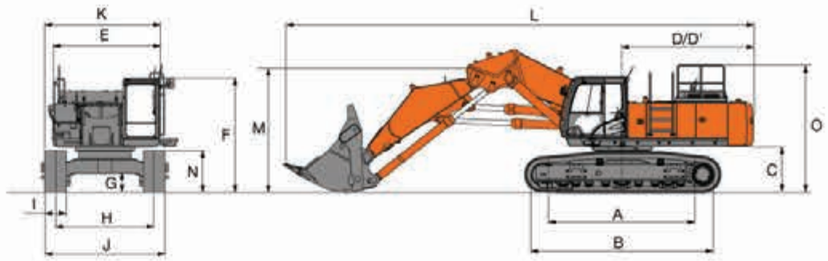
Sl. No.	Type	Capacity	Maximum width	No. of teeth	Weight
1	Bottom dump type general purpose bucket	2.6 m^3	2030 mm	6	3050 kg
2	Bottom dump type slag handling bucket	2.6 m^3	1943 mm	6	3170 kg

DIMENSIONS

Backhoe



Loading Shovel



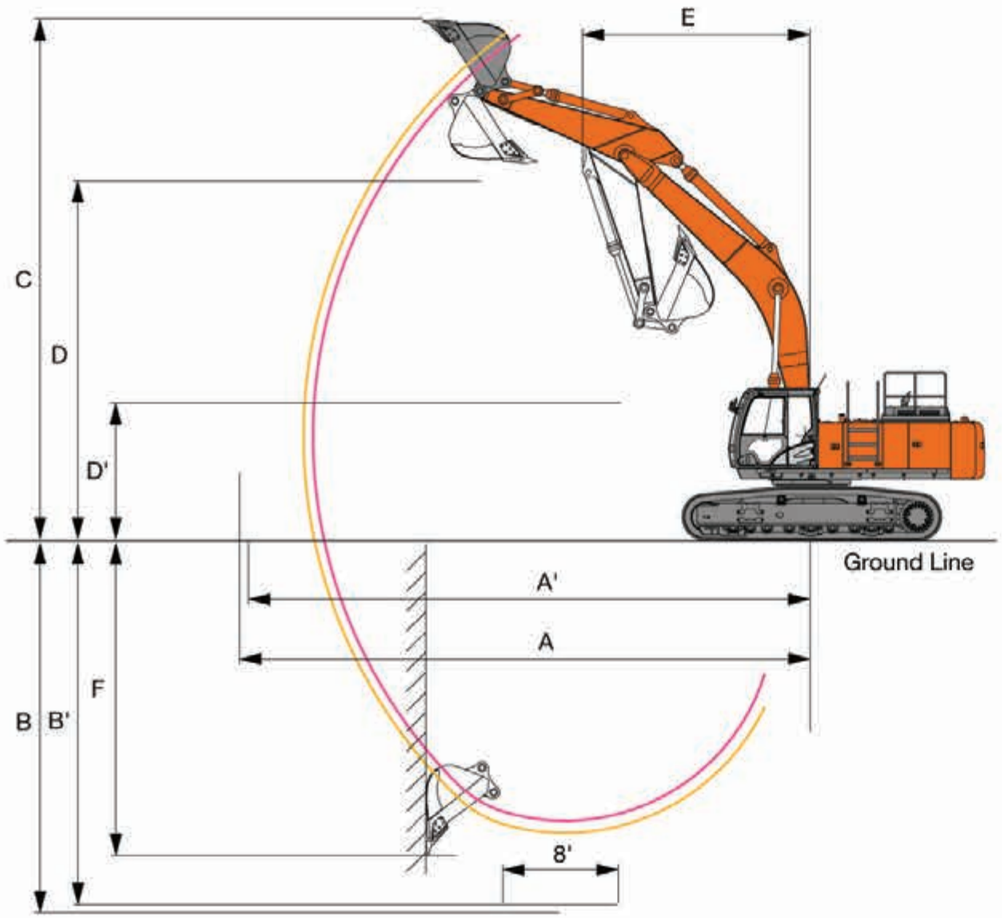
Unit: mm

A	Distance between tumblers	4 040	I	Track shoe width	G 600
B	Under carriage length	5 040	J	Undercarriage width	3 340
*1C	Counter weight clearance	1 230	K	Overall width	3 820
D	Rear-end swing radius	3 670	L	Overall length	12 110
D'	Rear-end length	3 660	M	Overall height of boom	4 000
E	Overall width of upperstructure	3 310	L'	Overall length	12 010
F	Overall height of cab	3 170	M'	Overall height of boom	3 480
*1G	Min. ground clearance	495	N	Track height	1 150
H	Track gauge	2 740	O	Overall height of base machine	3 540

*1Excluding track shoe lug G: Triple grouser shoe

SPECIFICATIONS

WORKING RANGES BACKHOE

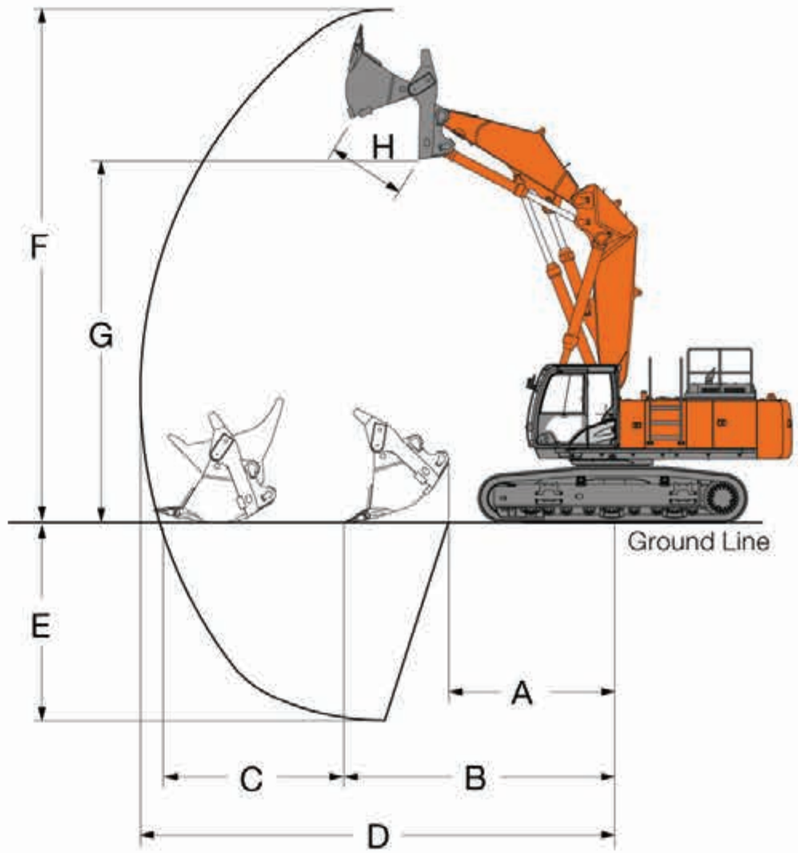


Unit: mm

Arm length	6.3 m BE-boom	
	2.5 m BE-arm	2.9 m BE-arm
A Max. digging reach	10 460	10 850
A' Max. digging reach (on ground)	10 240	10 640
B Max. digging depth	5 920	6 360
B' Max. digging depth (8'level)	5 740	6 200
C Max. cutting height	10 530	10 760
D Max. dumping height	7 190	7 210
D' Min. dumping height	3 550	3 030
E Min. swing radius	3 930	3 930
F Max. vertical wall	4 380	4 150

Excluding track shoe lug

WORKING RANGES LOADING SHOVEL



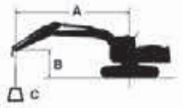
Unit: mm

Item	Bottom dump type
A Min. digging distance	2 750
B Min. Level crowding distance	5 010
C Level crowding distance	3 370
D Max. digging reach	4 760
E Max. digging depth	4 130
F Max. cutting height	10 070
G Min. dumping height	7 500
H Min. Bucket tilting angle on ground	54°
I Max. bucket opening width	1 390
J Arm Crowding Force * ISO	296 kN (30,200 kgf)
K Breakout Force * ISO	271 kN (27,600 kgf)

Excluding track shoe lug

LIFTING CAPACITIES

LIFTING LOAD CHART OF ZAXIS470H WITH 6.3m BOOM 2.5m ARM WITHOUT BKT



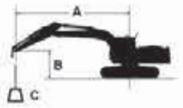
A: Load radius
B: Load point height
C: Lifting capacity

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

Conditions	Load point height m	Load radius 1.5 m		3 m		4.5 m		6 m		7.5 m		9m		At max. reach		
																meter
BE boom 6.3 m BE arm 2.5 m without Bucket Shoe 600 mm	7.5							15*	14					12*	12	6.7
	6							15.3*	14.0	14.0*	9.7			11.9*	9.2	7.7
	4.5							16.9*	13.3	14.0	9.4			11.9	8.0	8.3
	3					21.7*	20.7	18.7*	12.5	13.6	9.1			11.0	7.4	8.6
	1.5							18.5*	11.9	13.2	8.7			10.8	7.2	8.6
	0 (Ground)							18.2*	11.8	13.0	8.5			11.2	7.4	8.4
	-1.5					27.2*	17.6	18.1*	11.5	13.0	8.5			11.3	8.1	7.8
	-3					25.2*	17.6	16.7*	11.7					13.7*	9.8	6.9
	-4.5					21.5*	18.0									

Notes : 1. Lifting capacity of the ZX series does not exceed 75% of tipping bad with them achine on firm, level ground or 87% of full hydrulic capacity. 2. * Indicates bad limited by hydraulic capacity
Limited by hydraulic capacity

LIFTING LOAD CHART OF ZAXIS470H WITH 6.3m BOOM 2.9m ARM WITHOUT BKT



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Conditions	Load point height m	Load radius 1.5 m		3 m		4.5 m		6 m		7.5 m		9m		At max. reach		
																meter
BE boom 6.3 m BE arm 2.9 m without bucket Shoe 600 mm	7.5							14*	14*					8*	8*	7.1
	6							14.8*	14.2	13.4*	9.9			7.8*	7.6*	8.0
	4.5					20.8*	20.8*	16.4*	13.6	14.2	9.6			7.8*	7.7	8.6
	3					25.1*	19.4	18.4*	12.8	13.8	9.2			8.2*	7.1	8.9
	1.5					27.6*	18.2	18.8	12.1	13.4	8.9			8.9*	7.0	8.9
	0 (Ground)					27.7*	17.8	18.3	11.8	13.1	8.6			10.0	7.1	8.6
	-1.5			23.3*	23.3*	26.1*	17.8	18.2	11.6	13.0	8.6			11.7	7.7	8.1
	-3			29.2*	29.2*	21.8*	18.0	17.6*	11.8					13.7*	9.2	7.2
	-4.5															

Notes : 1. Lifting capacity of the ZX series does not exceed 75% of tipping bad with them achine on firm, level ground or 87% of full hydrulic capacity. 2. * Indicates bad limited by hydraulic capacity
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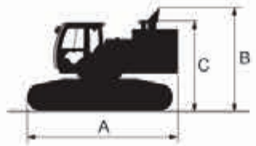
TRANSPORTATION

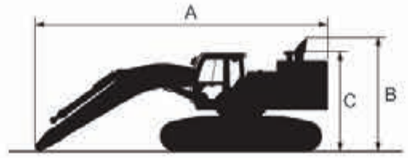
BASIC MACHINE (WITHOUT COUNTERWEIGHT)



Shoe width	A	B	C*1	Overall width*2	Weight
600 mm	5 470 mm	3 320 mm	3 540 mm	3 310 mm	27 500 kg

*1 Without exhaust funnel
*2 Undercarriage retracted

BASIC MACHINE FITTED WITH BOOM AND NO SIDEWALK



Boom length	Shoe width	A	B	C*1	Overall width*2	Weight
6.3 m BE	600 mm	9 170 mm	3 320 mm	3 540 mm	3 310 mm	32 300 kg

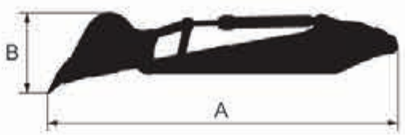
*1 Without exhaust funnel
*2 Undercarriage retracted

BASIC MACHINE FITTED WITH FRONT AND SIDEWALK

Boom length	6.3 m BE	
Arm length	2.5 m BE	2.9 m BE
A	11 660 mm	11 320 mm
B	3 870 mm	
C*1	3 400 mm	
D	4 300 mm	3 740 mm

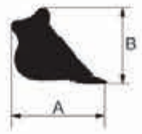
*1 Without exhaust funnel

ARM AND BUCKET



Arm	Bucket SAE, PCSA heaped	A	B	Overall width	Weight
2.5 BE	2.50 m³	5 650 mm	1 470 mm	1 820 mm	5 000 kg
2.9 BE	2.30 m³	6 030 mm	1 340 mm	1 700 mm	4 800 kg

BUCKET



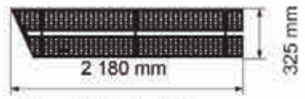
Rock bucket

Bucket		A	B	Overall width	Weight
ISO heaped	CECE heaped				
1.9 m³	1.7 m³	2 030 mm	1 480 mm	1 500 mm	2 070 kg
2.5 m³	2.2 m³	1 950 mm	1 650 mm	1 820 mm	2 360 kg

COUNTERWEIGHT 9 080 kg

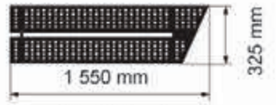
Overall height: 1 340 mm

LEFT FRONT SIDEWALK 28 kg



Overall height: 142 mm

LEFT REAR SIDEWALK 20 kg



Overall height: 142 mm

EQUIPMENT

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

(*) No alarm, only indication S : Standard equipment O: Optional equipment

ENGINE	
Auto idle system	S
Cartridge-type engine filter	S
Dry-type air double filter with evacuator valve (with air filter restriction indicator)	S
Cartridge-type engine oil filter	S
Cartridge-type fuel filter	
Power mode control (PWR(Power) ECO(Economy)	S
Isolation-mounted engine	S
Pre-cleaner	S
Radiator, oil cooler	S
Radiator reserve tank	S
50 A alternator	S

HYDRAULIC SYSTEM	
Control valve with main relief valve	S
Drain filter	S
Engine speed sensing system	S
E-P control system	S
Extra port for control valve	S
Pilot filter	S
Power boost	S
Quick warm-up system for pilot circuit	S
Shockless valve in pilot circuit	S
Suction filter	S
Work mode selector	S

CAB	
Additional fuse box	S
Adjustable armrests	S
Sound suppressed	S
Steel cab	S
AM-FM radio, USB music play	S
Ashtray	S
Auto control air conditioner	S
Auto-idle selector	S
Drink holder	S
Engine shut-off cable	S
Evacuation hammer	S
Floor mat	S
Front window washer	S
Windshield wiper	S
Pilot control shut-off lever	S
2 Point Seat Belt	S
Rubber radio antenna	S
Seat : Adjustable reclining mechanical suspension	S
Short wrist control levers	S
Storage box	S
Front Guard-Top	O
Front Guard-Bottom	O
2 speaker	S
6 fluid-filled elastic mounts	S
Mobile charger	S
Sunvisior	S

MONITOR SYSTEM	
Alarm buzzers: overheat, engine oil pressurre, Overload	S
Alarms: overheat, engine warning, engine oil pressure, alternator*, minimum fuel level, air filter restriction*, work mode	S
Display of meters: water temperature, hour Other displays: work mode, auto-idle	S

LIGHTS	
3 working lights	S
2 cab lights	S
Additional working lights (boom right side)	S

UPPER STRUCTURE	
Electric fuel refilling pump with auto stop	O
Rear view mirror(right & left side)	S
Side walk (cab side)	S
Swing parking brake	S
Tool box	S
Utility space	S

UNDERCARRIAGE	
Bolt-on sprocket	S
Full track guard	O
Hydraulic track adjuster	S
Idler track guard	S
Travel motor covers	S
Travel parking brake	S
Upper and lower rollers	S
600 mm triple grouser shoes	S

FRONT ATTACHMENTS	
Automatic centralized lubrication system (except arm front end joints)	S
Damage prevention plate	S
Square bars	S
Dirt seal on all bucket pins	S
1.9 m^3 (ISO heaped) bucket (granite bucket)	O
3.1 m^3 (ISO heaped) G.P bucket	O
2.5 m^3 (ISO heaped) H.D bucket	O
3.0 m^3 (ISO heaped) G.P bucket	O
6.3 m BE-boom	S
2.5 m BE-arm	S
2.9 m BE-arm	O

MISCELLANEOUS	
Anti-slip steps and handrails	S
Lockable fuel refilling cap	S
Lockable machine covers	S
Onboard information controller	S
Standard tool kit	S

OTHERS	
Global e-service	

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