

ZAXIS-5G series

HITACHI

Reliable solutions

ZAXIS280



HYDRAULIC EXCAVATOR

Model Code : ZX280-5G / ZX280LC-5G

Engine Rated Power : 132 kW (177 HP)

Operating Weight : ZX280-5G : 27 400 kg / ZX280LC-5G : 28 400 kg

Backhoe Bucket : ISO Heaped : 1.00 - 1.62 m³

ZAXIS Empower your Vision.

A ZAXIS hallmark – industry-leading hydraulic technologies, and performance no other can beat. New ZAXIS provides reliable solutions: impressive fuel economy, swift front movements, and easy operation. You'll also find Hitachi technological prowess and expertise, such as the optimized hydraulic system and engine.

New ZAXIS features the key benefits of high quality, low fuel consumption, and high durability, all of which serve to ensure low running costs.

New ZAXIS, which is empowered by comprehensive evolution, will realize customers' visions and dreams, and pioneer your colorful future.

Highly Efficient Fuel Consumption

Key Benefits for Low Running Costs

Highly Efficient Fuel Consumption

More Production with Less Fuel

Page 4-5

- 9% reduction in fuel consumption
- More fuel reduction in the ECO mode
- Swift front movements with HIOS III hydraulics
- Powerful lifting operation
- Boosted swing torque
- Enhanced power boost

Pursuits of Performance and Durability

Page 6-7

- Prestige R&D and quality control
- Durable, reliable engine
- Rock-solid, durable front attachment
- Strengthened undercarriage
- Proven upperstructure

No Compromise on Operator Comfort

Page 8-9

- Comfortable operating environment
- Comfort-designed operator seat
- Robust cab
- New, easy-to-use multifunctional monitor

Simplified Maintenance

Page 10-11

- Dust-proof indoor net
- Grouped remote inspection points
- Attractive, robust body
- Low life cycle costs

Reliable Solutions, with Various Options

Page 12-13

- Varied jobs, varied options
- Recommended options

Hitachi Support Chain

Page 14-15

- Remote fleet management with Global e-Service
- Parts and service



Note: The photos in this brochure show excavators with optional equipments such as rear view camera.

More Production with Less Fuel

9% Reduction in Fuel Consumption

New ZAXIS is a fuel-thrifty excavator that can reduce fuel consumption by 9%, compared to the precedent ZX270-3/ZX270-3F family, thanks to the HIOS III hydraulic system and engine control system, thereby reducing CO2 emissions.

More Fuel Reduction in the ECO mode

The ECO mode, a new economical mode, can further cut fuel consumption by 7% compared to the PWR mode, without sacrificing digging speed by optimal matching of operations.



Swift Front Movements with HIOS* III Hydraulics

Operating speed increases with less fuel consumption thanks to the HIOS III hydraulic system, developed by industry-leading hydraulic technologies and a wealth of experience. Actuators work quickly by boom weight, without needing a regenerative circuit and pressure oil.

*Human & Intelligent Operation System

Rapid Arm Roll-in

Arm roll-in speed increases by combined flow from arm and boom cylinders through regenerative valves for productive excavation.

Fast Arm Speed During Boom Lowering

Arm speed increases by boom weight during boom lowering, without needing pressure oil from a pump. That is, arm circuit flow is increased for higher arm speed, allowing for quick loading of a dump truck and positioning of the front.

Powerful Lifting Operation

The Auto Power Lift mode, which automatically surge lifting force by 10% when needed, allows for powerful lifting of buried concrete pipes or sheathing sheets.

Boosted Swing Torque

Allows for powerful wall cutting with the bucket, and smooth swing operation on slope.

Enhanced Power Boost

The Power Boost mode allows the operator to surge 10% more digging force for powerful excavation by pressing its button on the control lever.



Pursuits of Performance and Durability

Prestige R&D and Quality Control

Hitachi has earned praise for technological prowess and product performance around the world. R&D Division has a track record – including excellent design, stress analysis expertise using CAE system, and abundant production data base. What's more, a large-scale durability test field (427 hm²) allows for a series of stringent testing of new machines.

Production Division strives to automatize production processes, including robotic welding, machining, painting, assembling and transferring.



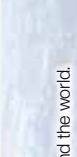
Computer-Aided Engineering



Main pump testing area



Simulation testing from operator seat



Main frame welding line



Mid-sized excavator assembly line



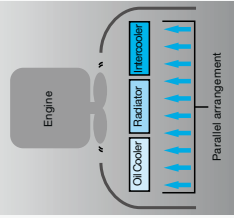
Durable, Reliable Engine

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

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

The cooling system well keeps the engine cool. The engine cover has a wider air suction area, and radiators are arranged in parallel for efficient cooling. This parallel arrangement also facilitates their cleaning.

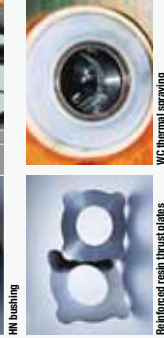
The ample-capacity intercooler and turbocharger help yield a whopping 132 kW (177 HP) output for higher production in shorter job schedule.



Rock-Solid, Durable Front Attachment

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

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



Strengthened Undercarriage

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

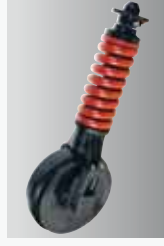
Track adjusters absorb impacts to crawlers. Front idlers and adjuster cylinders are integrated to increase durability. Idler brackets and travel motor brackets are both thickened for added durability.

Proven Upperstructure

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.



X-beam frame



Track adjuster



Boom foot



HN bushing



Reinforced resin thrust plates



WC thermal spraying

No Compromise on Operator Comfort

Comfortable Operating Environment

You'll feel comfortable and confident, with plenty of leg space and excellent visibility when entering the cab. The new compact console gives more leg space. The new door pillar is shifted rearward by 70 mm to widen an entry space for easy access. A new LED room light, interlocked with the door, turns on when the door opens. The front window is easily removed and stored overhead using slide rails. The overhead window is openable for ventilation. Lots more air vents for air conditioner are located strategically for uniform air circulation inside the cab. The control panel and control levers are arranged within easy reach of the operator. AM/FM radio and AUX port (optional) for a mobile music player are available for a long work day with less fatigue. All these designs focus on operator comfort.

Comfort-Designed Operator Seat

The luxury cloth seat is fitted with a headrest and arm rests for operator comfort. The seat can be adjusted in multiple ways, sliding and reclining, to suit operator's size and preferences. The seat can slide rearward by 40 mm more for added leg space. An air suspension with a heat pad is optional.

Robust Cab

The robust cab, meeting the OPG (Top Guard Level 1), protects the operator from falling objects. The pivot control shut-off lever is provided with the neutral engine start system that permits engine starting only when the pivot control shut-off lever is in Lock position. The engine is lockable by entering a password through the 10-key panel.



Large storage space

Control panel

Large storage space



New, Easy-to-Use Multifunction Monitor

The new multi-language, multifunction monitoring system is composed of a 7-inch high-resolution color monitor and a multifunction controller. The monitor allows the operator to check varying operating variables: oil temperature, fuel level, work mode, full-auto air conditioner, AM/FM radio, rear view monitor camera (optional), maintenance support, and attachment flow adjustment. Menu items can be selected and adjusted by a multifunction controller on the control panel. A new rear view monitor camera always displays the view behind the machine.



Menu items

Main menu

Work mode menu

Engine oil

Simplified Maintenance



The photo shows an excavator with an optional front glass lower guard.



Dust-Proof Indoor Net

A dust-proof indoor net, provided at the front of radiator, can be easily removed and cleaned with compressed air. At the rear of the radiator, air blowing can be done through a one-touch open cover. The air condenser is openable for easy cleaning at its rear.

Attractive, Robust Body

Side frame tops of the undercarriage are sloped to let muck slide away. Track adjuster greasing ports are repositioned for easier lubrication, and well protected from muck packing.

Grouped Remote Inspection Points

Service points are concentrated inside left and right covers that are readily accessible from ground level for convenient servicing and inspection, including water draining from the fuel tank, replenishment of coolant, and replacement of filters. The fuel tank is anti-corrosion coated on its inside, and has a large cleaning port at the bottom. These wise designs effectively keep fuel clean, and ease servicing. Handrails are provided at convenient locations for easy riding on the upperstructure. Plenty slip-resistant plates are located for safe maintenance.



Grouped remote filters and inspection points

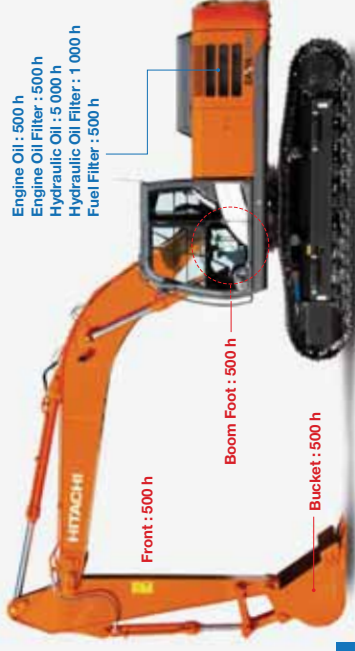
Utility space and radiators



Fuel tank water drainage cock

Low Life Cycle Costs

Service intervals are long enough to slash maintenance costs.



Lubricant

Consumables

Note: Periodic inspection is required to check oil contamination and leaks.

Reliable Solutions, with Various Options



Easy-to-Use Attachments

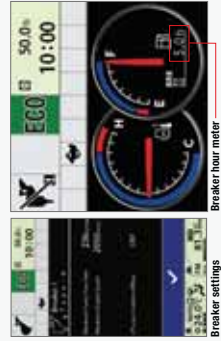
The operator can change over valves, adjust extra circuit flow, and check settings from the multifunctional monitor next to the operator seat. What's more, 11 jobs, including flow rate setting, can easily be selected by their identified names.

Easy-to-Operate Breaker

When using a breaker that requires frequent change of hydraulic oil and filters, an extra hour meter on the multifunctional monitor displays operating hours of the breaker, suggesting adequate replacement timing of oil and filters. The Breaker Alarm (optional) shows an alert mark on the monitor screen, and buzzes when the breaker works continuously over one minute.

Varied Jobs, Varied Options

Lower cab front guard is provided for protection against debris during demolition and breaker operation. The hose rupture valve is added to reduce oil leaks, and prevent the attachment from lowering, especially when a grapple or cutter is used, or when a front hose is punctured. High-performance filters and in-line filters are available at tough job sites.



Breaker settings

Breaker hour meter

Recommended Options



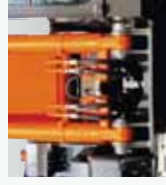
Attachment basic piping



Lower cab front guard



Additional cab roof front lights



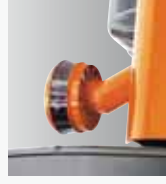
Boom hose rupture valve



Rear view camera



Electric fuel refilling pump



Pre-Cleaner

Hitachi Support Chain

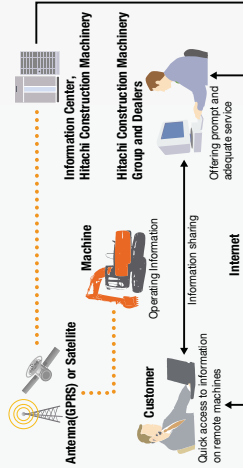
SUPPORT CHAIN

Hitachi Support Chain is a full customer support system offered after buying a Hitachi machine.

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.



Note: In Some Regions, Global e-Service is Not Available by Local Regulations.

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.



Parts and Service

Hitachi full customer support is available every area on the globe for full customer satisfaction through Hitachi local dealers.

Parts

Hitachi Global Online Network, a parts supply system, is linked with Japan Parts Center, overseas depots and over 150 dealers abroad to deliver on-line parts information, including in-stock parts, order receptions, shipments and delivery period of over one million parts and components.

Genuine Hitachi Parts

Genuine Hitachi parts, meeting Hitachi stringent quality standards, are guaranteed according to Hitachi warranty standards. The use of genuine Hitachi parts, including engine, fuel, hydraulic oil and filters, may slash running costs, and extend machine life.

Ground Engaging Tools (GETs)

Hitachi provides an array of Hitachi Ground Engaging Tools developed and built for a variety of applications.

Using high-quality, well-maintained GETs will help you get customers' trust.

Note: Some dealers do not handle Hitachi GETs.

Remanufactured Components

Hitachi components are remanufactured according to the stringent remanufacturing standards at four factories around the world. They have high quality equivalent to new ones, and backed up by Hitachi warranty system.

Note: Some dealers do not handle Hitachi Remanufactured Components.

Service

Extended Warranty — HELP

Hitachi Standard Warranty System is available on all new Hitachi machines. In addition, Hitachi offers Hitachi Extended Life Programs (HELPS) to suit customer expectations —



protecting machines under tough operating conditions, avoiding unexpected downtime, and reducing repair costs.

Note: Warranty conditions vary by equipment.

Diagnostic Tools — Maintenance Pro

Electronic control system needs quick on-site solutions, apart from mechanical repairs. Hitachi's Maintenance Pro can diagnose machine failures in a short time by plugging a PC into a failed machine.

Technical Training

On-site servicing matters despite locations to keep the machine at peak performance and reduce downtime. Technical Training Center (TTC), located in Japan, educates and trains service technicians and service support personnel coming from Hitachi dealers and factories on the globe according to the international training programs.

SPECIFICATIONS

ENGINE

Model Isuzu CC-6BG1T
 Type 4-cycle water-cooled, direct injection
 Aspiration Turbocharged, intercooled
 No. of cylinders 6
 Rated power
 ISO 9249, net 132 kW (177 HP) at 2 150 min⁻¹ (rpm)
 SAE J1349, net 132 kW (177 HP) at 2 150 min⁻¹ (rpm)
 Maximum torque 637 Nm (65 kgfm) at 1 800 min⁻¹ (rpm)
 Piston displacement .. 6.494 L
 Bore and stroke 105 mm x 125 mm
 Batteries 2 x 12 V / 88 Ah

HYDRAULIC SYSTEM

Hydraulic Pumps
 Main pumps 2 variable displacement axial piston pumps
 Maximum oil flow .. 2 x 236 L/min
 Pilot pump 1 gear pump
 Maximum oil flow .. 34.0 L/min

Hydraulic Motors

Travel 2 variable displacement swash plate piston motors
 Swing 1 swash plate piston motor

Relief Valve Settings

Implement circuit 34.3 MPa (350 kgf/cm²)
 Swing circuit 32.4 MPa (330 kgf/cm²)
 Travel circuit 34.8 MPa (355 kgf/cm²)
 Pilot circuit 3.9 MPa (40 kgf/cm²)
 Power boost 38.0 MPa (388 kgf/cm²)

Hydraulic Cylinders

	Quantity	Bore	Rod diameter
Boom	2	135 mm	95 mm
Arm	1	150 mm	105 mm
Bucket	1	135 mm	90 mm

UPPERSTRUCTURE

Revolving Frame

D-section frame skirt for resistance to deformation.

Swing Device

Swash plate piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row. Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed 10.3 min⁻¹ (rpm)
 Swing torque 90.5 kNm (9 200 kgfm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* Standards.
 * International Standardisation Organisation

UNDERCARRIAGE

Tracks

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 7 : ZX280-5G
 8 : ZX280LC-5G
 Track shoes 45 : ZX280-5G
 48 : ZX280LC-5G
 Track guard 1 : ZX280-5G/ZX280LC-5G

Travel Device

Each track driven by 2-speed axial piston motor.
 Parking brake is spring-set/hydraulic-released disc type.
 Automatic transmission system: High-Low.
 Travel speeds High : 0 to 5.2 km/h
 Low : 0 to 3.1 km/h

Maximum traction force .. 246 kN (24 600 kgf)

Gradeability 70% (65 degree) continuous

SERVICE REFILL CAPACITIES

Fuel tank 510.0 L
 Engine coolant 26.0 L
 Engine oil 25.0 L
 Swing device 11.7 L
 Travel device (each side) 9.2 L
 Hydraulic system 290.0 L
 Hydraulic oil tank 156.0 L

WEIGHTS AND GROUND PRESSURE

Operating weight and Ground pressure

Shoe type	ZX280-5G ^{*1}			ZX280LC-5G ^{*1}		
	Shoe width	Arm length	kg	kPa(kg/cm ²)	kg	kPa(kg/cm ²)
Triple grouser	600 mm	2.42 m	27 300	55 (0.56)	28 300	53 (0.54)
	700 mm	3.11 m	27 400	55 (0.56)	28 400	53 (0.54)
		3.76 m	27 500	55 (0.56)	28 500	53 (0.54)
Triangler	900 mm	2.42 m	27 900	48 (0.49)	28 700	46 (0.47)
		3.11 m	27 900	48 (0.49)	28 800	46 (0.47)
	3.76 m	28 000	48 (0.49)	28 800	46 (0.47)	
Flat	900 mm	2.42 m	28 200	42 (0.43)	29 100	41 (0.42)
		3.11 m	28 300	43 (0.44)	29 100	41 (0.42)
	3.76 m	28 400	43 (0.44)	29 200	41 (0.42)	
Triangler	900 mm	2.42 m	28 600	38 (0.39)	29 400	36 (0.37)
		3.11 m	28 700	38 (0.39)	29 500	37 (0.38)
	3.76 m	28 800	38 (0.39)	29 600	37 (0.38)	
Flat	900 mm	2.42 m	28 900	38 (0.39)	29 700	36 (0.37)
		3.11 m	28 900	38 (0.39)	29 800	36 (0.37)
	3.76 m	29 000	38 (0.39)	29 900	37 (0.38)	
Triangler	900 mm	2.42 m	28 200	57 (0.58)	29 000	54 (0.55)
		3.11 m	28 200	57 (0.58)	29 100	54 (0.55)
	3.76 m	28 300	57 (0.58)	29 100	54 (0.55)	

*1: including 1.10 m³ (ISO heaped) bucket weight (900 kg) and counterweight (5 900kg).

WEIGHT: BASIC MACHINE AND COMPONENTS

Basic Machine Weight and Overall width

Excluding front-end attachment, fuel, hydraulic oil, coolant, etc., and including counterweight.



Shoe width	ZX280-5G			ZX280LC-5G		
	Weight	Overall width	Shoe width	Weight	Overall width	Shoe width
600 mm	21 300 kg	3 190 mm	600 mm	22 400 kg	3 190 mm	600 mm
700 mm	21 900 kg	3 290 mm	700 mm	22 700 kg	3 290 mm	700 mm
800 mm	22 300 kg	3 390 mm	800 mm	23 100 kg	3 390 mm	800 mm
900 mm	22 600 kg	3 490 mm	900 mm	23 400 kg	3 490 mm	900 mm

Component weights

	ZX280-5G / ZX280LC-5G
Counterweight	5 900 kg
Boom (with boom and arm cylinder)	2 930 kg
2.42 m arm (with bucket cylinder)	1 350 kg
3.11 m arm (with bucket cylinder)	1 430 kg
3.76 m arm (with bucket cylinder)	1 520 kg
1.10 m ³ bucket	900 kg

SPECIFICATIONS

BUCKET AND ARM DIGGING FORCES

Arm length	2.42 m	3.11 m	3.76 m
Bucket digging force* ISO	202 kN (20 600 kgf)	202 kN (20 600 kgf)	202 kN (20 600 kgf)
Bucket digging force* SAE : PCSA	175 kN (17 900 kgf)	175 kN (17 900 kgf)	175 kN (17 900 kgf)
Arm crowd force* ISO	182 kN (18 500 kgf)	144 kN (14 700 kgf)	126 kN (12 900 kgf)
Arm crowd force* SAE : PCSA	174 kN (17 700 kgf)	138 kN (14 100 kgf)	122 kN (12 400 kgf)

* At power boost

BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 6.20 m boom, and 2.42 m, 3.11 m and 3.76 m arms are available. Bucket is of welded steel structure. Side clearance adjust mechanism provided on the bucket joint bracket.

Buckets

Capacity	Width		No. Of teeth	Weight	Recommendation					
	Without side cutters	With side cutters			ZX280-SG		ZX280LC-SG			
ISO heaped					2.42 m arm	3.11 m arm	3.76 m arm	2.42 m arm	3.11 m arm	3.76 m arm
1.00 m³	1 130 mm	1 260 mm	5	850 kg	⊙	⊙	⊙	⊙	⊙	⊙
1.10 m³	1 220 mm	1 350 mm	5	900 kg	⊙	⊙	○	⊙	⊙	⊙
1.40 m³	1 500 mm	1 630 mm	5	1 020 kg	○	○	—	○	○	□
1.62 m³	1 700 mm	1 850 mm	5	1 080 kg	□	—	—	—	—	—
*1 0.92 m³	1 130 mm	1 180 mm	5	990 kg	●	●	—	●	●	—
*2 1.10 m³	1 220 mm	1 350 mm	5	1 030 kg	●	●	○	●	●	⊙
*2 1.40 m³	1 500 mm	1 630 mm	5	1 180 kg	○	○	—	○	○	□
*3 1.10 m³	1 230 mm	1 360 mm	5	1 030 kg	⊙	⊙	○	⊙	⊙	⊙
*4 0.80 m³	1 000 mm	—	3	1 220 kg	●	●	—	●	●	—
One-point ripper	—		1	680 kg	—	—	—	—	—	—
Center-pull type clamshell bucket:0.60 m³ (CECE heaped), Width 940 mm	—		8	1 130 kg	⊙	⊙	—	⊙	⊙	—
Shell-push type clamshell bucket:0.80 m³ (CECE heaped), Width 910 mm	—		9	1 360 kg	⊙	⊙	—	⊙	⊙	—

⊙ Suitable for materials with density of 2 000 kg/m³ or less

○ Suitable for materials with density of 1 600 kg/m³ or less

□ Suitable for materials with density of 1 100 kg/m³ or less

● Heavy-duty service

◇ Slope-finishing service

— Not applicable

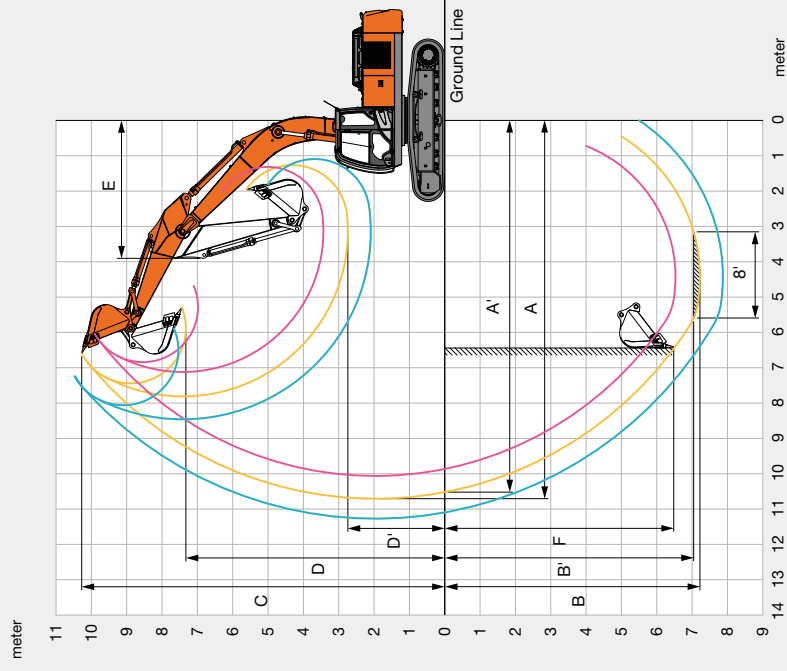
*1 Rock bucket

*2 Reinforced bucket

*3 Heavy-duty bucket

*4 Ripper bucket

WORKING RANGES



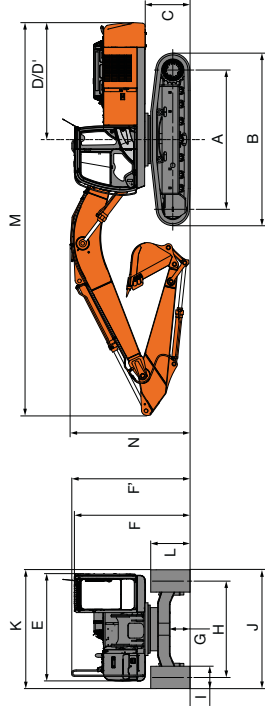
Arm length	2.42 m	3.11 m	3.76 m
A Max. digging reach	10 060	10 710	11 270
A' Max. digging reach (on ground)	9 860	10 520	11 080
B Max. digging depth	6 530	7 220	7 870
B' Max. digging depth (8' level)	6 310	7 040	7 710
C Max. cutting height	9 910	10 270	10 470
D Max. dumping height	6 980	7 330	7 540
D' Min. dumping height	3 450	2 740	2 080
E Min. swing radius	4 060	3 900	3 690
F Max. vertical wall digging depth	5 650	6 480	7 050

Excluding track shoe kg

Unit: mm

SPECIFICATIONS

DIMENSIONS



	ZX280-5G	ZX280LC-5G	Unit: mm
A Distance between lumbars	3 730	4 050	
B Undercarriage length	4 670	4 940	
C Counterweight clearance	1 170	1 170	
D Rear-end swing radius	3 140	3 140	
E Rear-end length	3 140	3 140	
F Overall width of upperstructure	2 870	2 870	
G Overall height of cab	3 110	3 110	
F' Overall height of upperstructure	3 180	3 180	
G Min. ground clearance	510	510	
H Track gauge	2 590	2 590	
I Track shoe width	G 600	G 600	
J Undercarriage width	3 190	3 190	
K Overall width	3 190	3 190	
L Track height with triple grouser shoes	1 070	1 070	
M Overall length			
With 2.42 m arm	10 640	10 640	
With 3.11 m arm	10 550	10 550	
With 3.76 m arm	10 600	10 600	
N Overall height of boom			
With 2.42 m arm	3 410	3 410	
With 3.11 m arm	3 170	3 170	
With 3.76 m arm	3 310	3 310	

* Excluding track shoe lug G: Triple grouser shoe

LIFTING CAPACITIES (Without Bucket)

Notes: 1. Ratings are based on ISO 10567

- Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
- The load point is the center-line of the bucket pivot mounting pin on the arm.
- Indicates load limited by hydraulic capacity.
- 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.



Conditions	Load point height m	Load radius m					At max. reach							
		1.5	3.0	4.5	6.0	7.5	9.0	meter	meter	meter	meter			
Boom 6.20 m	6.0				8 040	7 650						7 570	5 360	7 46
Arm 3.76 m	3.0				11 280	11 280						6 800	4 220	8 14
Counterweight	3.0				14 220	10 430						5 650	4 220	8 14
5 900 kg	1.5				9 780	6 830						5 880	4 100	8 49
Shoe 600 mm	0 (Ground)				10 350	9 560						6 040	4 190	8 27
	-1.5				15 150	9 680						6 610	4 570	7 75
	-3.0				18 920	11 820						7 960	5 460	6 66
	-4.5				14 680	11 190						9 010	7 820	5 42
	-6.0				7 140	7 140						4 740	4 660	8 19
Boom 6.20 m	6.0				9 840	9 840						4 730	4 080	8 78
Arm 3.11 m	4.5				12 820	10 790						4 880	3 780	9 09
Counterweight	3.0				15 230	10 050						5 220	3 670	9 14
5 900 kg	1.5				10 250	7 060						5 390	3 750	
Shoe 600 mm	0 (Ground)				15 180	9 700						5 880	3 750	8 93
	-1.5				20 250	9 620						6 710	4 010	8 45
	-3.0				16 480	15 190						8 680	4 730	7 65
	-4.5				17 660	12 950						8 660	6 050	6 39
	-6.0				7 360	7 360						3 950	3 950	7 64
Boom 6.20 m	7.5				8 290	8 290						3 820	3 700	9 37
Arm 3.76 m	4.5				11 420	11 130						5 250	3 980	9 37
Counterweight	3.0				14 210	10 250						5 150	3 870	9 66
5 900 kg	1.5				9 830	7 950						5 390	3 440	9 66
Shoe 600 mm	0 (Ground)				15 250	9 750						6 470	3 340	9 70
	-1.5				20 250	9 550						7 100	4 330	9 20
	-3.0				14 500	15 030						6 900	4 290	3 660
	-4.5				14 500	14 500						6 780	4 630	3 590
	-6.0				14 880	14 880						5 200	3 590	9 06
	-6.0				14 880	14 880						5 880	4 050	8 32
	-6.0				10 530	10 530						7 340	5 030	7 18
	-6.0				14 650	14 650						8 380	7 760	5 41

Conditions	Load point height m	Load radius m					At max. reach							
		1.5	3.0	4.5	6.0	7.5	9.0	meter	meter	meter	meter			
Boom 6.20 m	6.0				8 040	7 600						7 900	5 470	7 46
Arm 3.76 m	4.5				11 280	11 280						6 830	4 320	8 44
Counterweight	3.0				14 220	10 640						6 670	4 190	8 49
5 900 kg	1.5				9 780	6 830						6 870	4 290	8 27
Shoe 600 mm	0 (Ground)				10 350	9 900						7 630	4 680	7 75
	-1.5				15 820	9 820						9 090	5 580	6 66
	-3.0				18 920	14 320						9 010	7 980	5 42
	-4.5				14 680	11 190						4 740	4 740	8 19
	-6.0				9 840	9 840						4 730	4 170	8 78
Boom 6.20 m	6.0				11 000	11 000						4 660	3 870	9 09
Arm 3.11 m	4.5				12 820	10 640						5 670	3 980	9 37
Counterweight	3.0				15 230	10 050						6 110	3 840	9 66
5 900 kg	1.5				10 250	7 060						5 880	3 860	8 93
Shoe 600 mm	0 (Ground)				10 350	9 830						6 900	4 100	8 45
	-1.5				15 250	9 550						7 650	4 730	7 65
	-3.0				16 480	15 030						8 660	6 190	6 39
	-4.5				17 660	12 950						9 350	7 94	7 94
	-6.0				7 360	7 360						3 810	3 810	8 82
Boom 6.20 m	7.5				8 290	8 290						3 820	3 790	9 37
Arm 3.76 m	4.5				11 420	11 340						3 650	3 550	9 66
Counterweight	3.0				14 210	10 470						4 200	3 420	9 70
5 900 kg	1.5				9 830	6 930						4 640	3 460	9 51
Shoe 600 mm	0 (Ground)				15 830	9 970						5 360	3 670	9 06
	-1.5				20 270	9 770						6 650	4 140	8 32
	-3.0				14 500	15 740						8 280	5 150	7 18
	-4.5				14 880	14 880						8 380	7 950	5 41
	-6.0				14 650	14 650						8 380	7 950	5 41

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

● : Standard equipment ○ : Optional equipment

	ZX280-5G / ZX280LC-5G
ENGINE	
Air cleaner double filters	●
Auto idle system	●
Cartridge-type engine oil filter	●
Cartridge-type fuel pre-filter	●
Cartridge-type fuel main filter	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
ECO/PMF mode control	●
Engine warm-up device	●
Fan guard	●
Water separator	●
Pre-cleaner	○
Dust-Proof indoor nat	●
Radiator reserve tank	●
50 A alternator	●

HYDRAULIC SYSTEM	
Auto power lift	●
Control valve with main relief valve	●
Full-flow filter	●
High mesh full flow filter with restriction indicator	○
Hose rupture valve	○
Pilot filter	●
Power boost	●
Suction filter	●
One extra port for control valve	●
Work mode selector	●

CAB	ZX280-5G / ZX280LC-5G
All-weather sound suppressed steel cab	●
AM-FM radio with 2 speaker	●
Ashtray	●
Auto control air conditioner	●
AUX. terminal and storage	○
Cab (Center pillar reinforced structure)	●
Drink holder	●
Drink holder with hot & cool	●
Electric double horn	●
Engine shut-off lever	●
Evacuation hammer	●
Fire extinguisher bracket	○
Floor mat	●
Footrest	●
Front window washer	●
Front windows on upper, lower and left side can be opened	●
Lower cab front guard	○
Upper cab front guard	○
Glove compartment	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light with door courtesy	●
OPG top guard Level I (ISO10262) compliant cab	●
Pilot control shut-off lever	●
Rear tray	●
Retractable seat belt	●
Rubber radio antenna	●
Seat : mechanical suspension seat	○
Seat : air suspension seat with heater	○
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Short wrist control levers	●
4 fluid-filled elastic mounts	●
24V cigarette lighter	●

MONITOR SYSTEM	ZX280-5G / ZX280LC-5G
Alarm buzzers: Alarm buzzer, engine oil pressure, overload overheat, engine oil pressure, overload	●
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc	●
Display of meters: water temperature, hour, fuel rate, clock	●
Other displays: work mode, auto-idle, glow, rearview monitor, operating conditions, etc	●
32 languages selection	●

LIGHTS	
Additional cab roof front lights	○
Additional boom light with cover	○
2 working lights	●

UPPER STRUCTURE	
Electric fuel refilling pump	○
Fuel level float	●
Hydraulic oil level gauge	●
Rear view camera	○
Rear view mirror (right & left side)	●
Swing parking brake	●
Tool box	●
Undercover	●
6.0 mm reinforced undercover	○
Utility space	●
5 900 kg counterweight	●
2 x 85 Ah batteries	●

UNDERCARRIAGE	ZX280-5G / ZX280LC-5G
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Travel motor covers	●
Travel parking brake	●
6.0 mm reinforced track undercover	○
Track guard (each side) and hydraulic track adjuster	●
Upper and lower rollers	●
2 track guards	○
4 tie down hooks	●
600 mm triple grouser shoes	●

FRONT ATTACHMENTS	
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●
1.10 m ³ bucket (ISO heaped)	●
3.11 m arm	●
6.20 m boom	●

ATTACHMENTS	
Attachment basic piping	○
Breaker and crusher piping	○
High mesh full flow filter with restriction indicator	○
Parts for breaker and crusher	○
Welded bucket link A with welded hook	○
2 pump combined flow for attachment basic piping	○
Line filler	○

MISCELLANEOUS	
Lockable fuel refilling cap	●
Lockable machine covers	●
Onboard information controller	●
Skid-resistant tapes, plates and handrails	●
Standard tool kit	●
Travel direction mark on track frame	●
Global e-Service	●



Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Hitachi Environmental Vision 2025

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, conservation of resources, and preservation of ecosystem.

Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040

Before using a machine with a satellite communication system, please make sure that the satellite communication system complies with local regulations, safety standards and legal requirements. If not so, please make modifications accordingly.

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