

ZAXIS300



HYDRAULIC EXCAVATOR

Model Code : ZX300-5A / ZX300LC-5A

Engine Rated Power : 171 kW (229 HP)

Operating Weight : ZX300-5A : 28 100 kg

ZX300LC-5A : 28 900 kg

Backhoe Bucket : ISO Heaped : 1.00 - 1.62 m³

ZAXIS Empower your Vision.

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.



More Production with Less Fuel

Page 4-5

- Achieving low fuel consumption and a large workload
- Powerful operation
- Easy-to-use attachments



No Compromise on Operator Comfort

Page 8-9

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



High Quality and Durability

Page 6-7

- New more reliable and durable engine
- Durable design
- Improved engine start-up performance in cold weather



Simplified Maintenance

Page 10-11

- Dust-proof indoor net
- Grouped remote inspection points
- Bottom cover for fuel tank cleaning
- Low life cycle costs

Note: The photos in this brochure show excavators with optional equipment.



Hitachi Support Chain

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



More Production with Less Fuel



Achieving Low Fuel Consumption and a Large Workload

The HIOS III hydraulic system, which is an operator-friendly HIOS hydraulic system combined with efficient hydraulic control, was selected. It includes an hydraulic boosting system and an enhanced boom recirculation system to increase operating speed and reduce fuel consumption.

8% Increase in Production

Engine output is increased to 171 kW to meet market needs. New ZAXIS is powerful excavator that can increase production by 8%, compared to the conventional ZX270-3.

More Fuel Reduction in the ECO Mode

The ECO mode, a new economical mode, can further cut fuel consumption by 17% compared to the PWR mode.

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 Operation

The Power Boost mode allows the operator to surge 10% more digging force for powerful excavation by pressing its button on the control lever. It can obtain the big digging force when the power is needed.

The swing torque has increased by 9%. The enhanced swing performance means that it is easier to dig next to side walls and operate slopes.

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 types, including flow rate setting, can easily be selected by their identified names.



Enter attachment name

High Quality and Durability



New More Reliable and Durable Engine

The new engine, which is designed for use in harsh operating environment, is highly durable thanks to a fundamental review of the fuel and cooling systems. It also includes a new auto-idle stop mechanism to reduce fuel consumption and CO₂ emissions.



Durable Design

Large size efficiency cooling system keeps engine cool, helps machine hard works. In addition, the expansion tank is adopted in the cooling system. So, the air in the coolant circuit can always be discharged and display the cooling performance of the machine fully.





Prestige R&D and Quality Control



Mid-sized excavator assembly line



Main frame welding line



Computer-Aided Engineering



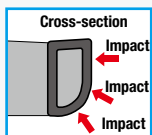
Main pump testing area



Simulation testing from operator seat

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 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.

The upperstructure frame is reinforced with the D-section skirt to increase rigidity against damage by obstacles.



D-section skirt

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



X-beam frame

Front idlers and adjuster cylinders are integrated to increase durability. Idler brackets and travel motor brackets are both thickened for added durability.

The boom top and foot are reinforced with thickened high-tensile steel brackets, which incorporate steel bushings to enhance durability.

The arm-bucket joint is protected by WC thermal spraying on its contact surfaces to reduce wear and jolt. The HN bushings, utilized on joint pins, retain grease inside for longer greasing intervals.

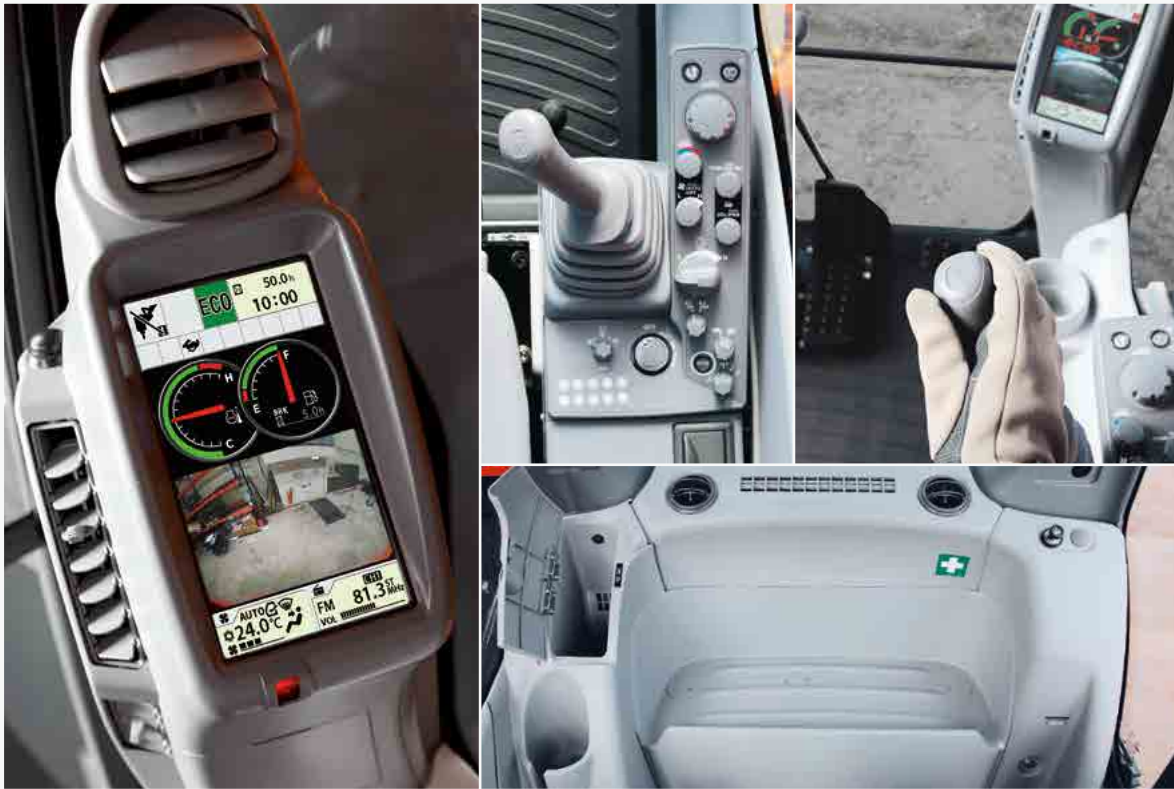
Improved Engine Start-up Performance in Cold Weather

When the ambient temperature is low, waxing light oil components will clog the fuel pre-filter. The recirculation filter prevents this by recirculating hot fuel from the engine.



Recirculation filter

No Compromise on Operator Comfort



Comfortable Operating Environment

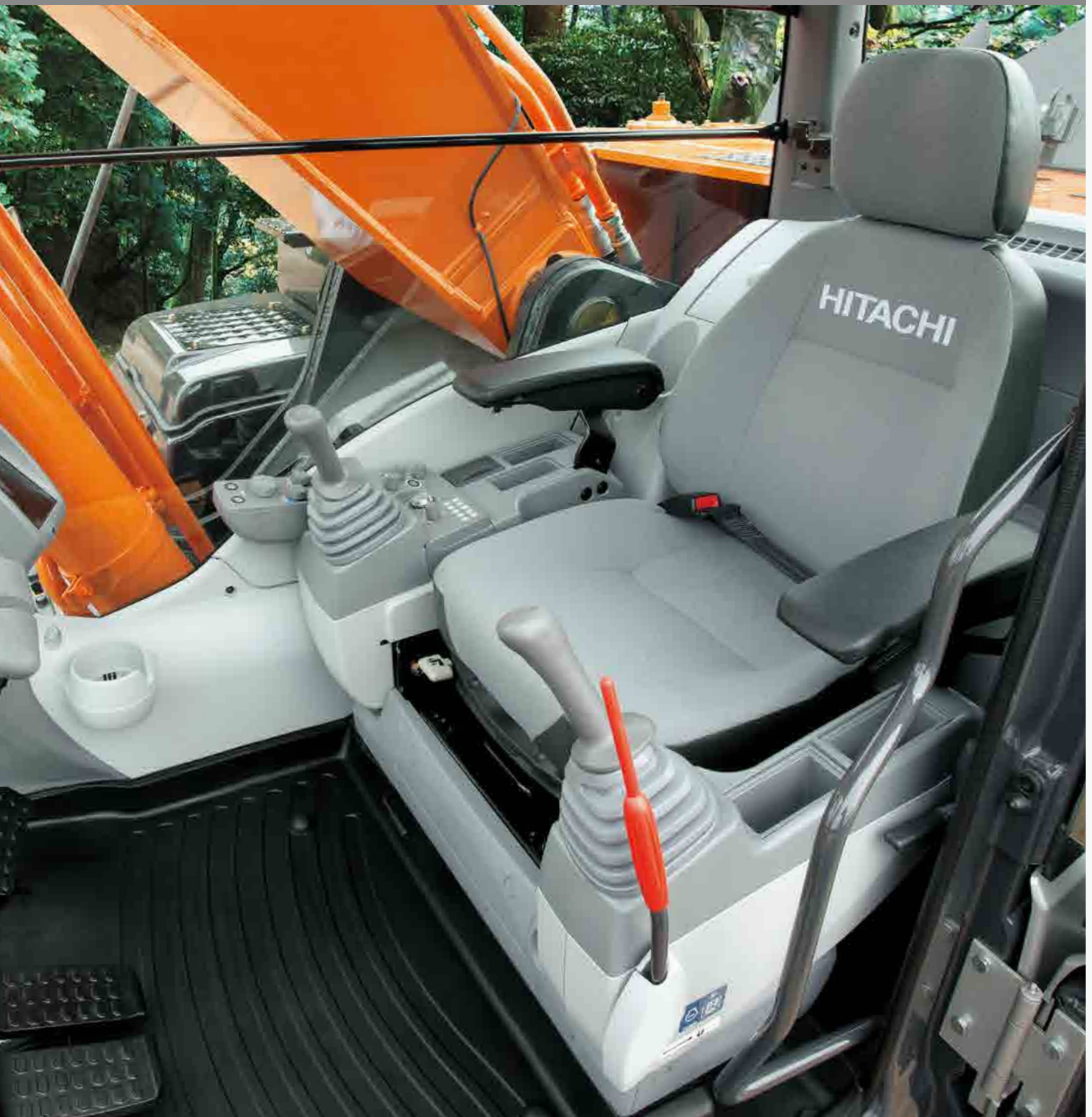
You'll feel comfortable and confident, with plenty of leg space and excellent visibility when operating in the cab. The new compact console gives more leg space. The new door pillar is shifted rearward by 70 mm to widen an entry space for easy access. A new LED room light, interlocked with the door, 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. Ample air conditioner vents 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 seat 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 Roll-over Protective structure (ROPS) is designed to unlikely event of machine tipping or rolling over (Optional). The pilot control shut-off lever is provided with a neutral engine start system that permits engine starting only when the pilot control shut-off lever is in Lock position.



New, Easy-to-Use Multifunction Monitor

The new multi-language, multifunction monitoring system comprises a 7-inch high-resolution color monitor and a multifunction controller. The monitor allows the operator to check varying operating variables: hydraulic oil temperature, fuel level, work mode, full-auto air conditioner, AM/FM radio, rear view monitor camera, 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	
Alarm List	
Air Conditioner	
Back	
Work Mode	
Setting Menu	
Main menu	
Engine Oil	
Previous Maintenance	
2000/01/01	0.0h
Remains	496.1h
Maintenance Interval	500.0h
Engine oil	
Work mode menu	
Bucket	
Breaker 1	
Hydraulic 1	
Crusher 1	
Grapple 1	

Simplified Maintenance



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.



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, and replacement of filters.



Bottom Cover for Fuel Tank Cleaning

The fuel tank is equipped with a bottom cover, allowing for easy cleaning of the inside of the tank.

Low Life Cycle Costs

Service intervals are long enough to slash maintenance costs.

Engine Oil Filter : 500 h
 Hydraulic Oil Filter : 1 000 h
 Fuel Filter : 1 000 h
 Fuel Pre-Filter : 1 000 h

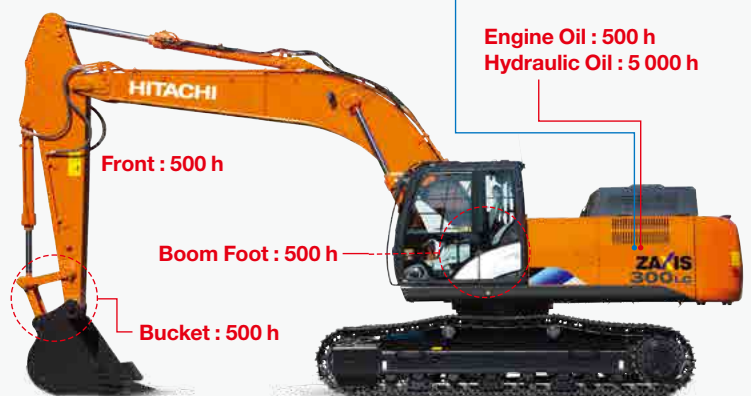
Engine Oil : 500 h
 Hydraulic Oil : 5 000 h

Front : 500 h

Boom Foot : 500 h

Bucket : 500 h

Lubricant
 Consumables



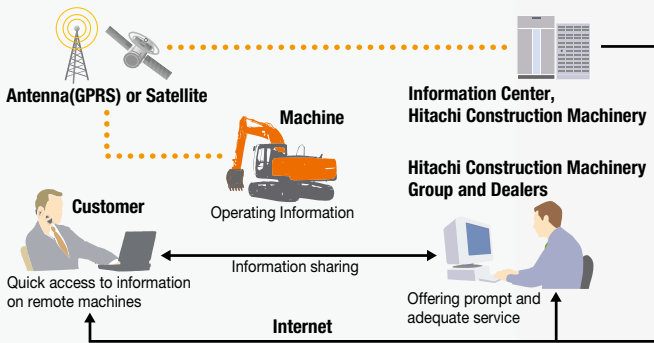
Hitachi Support Chain

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 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.

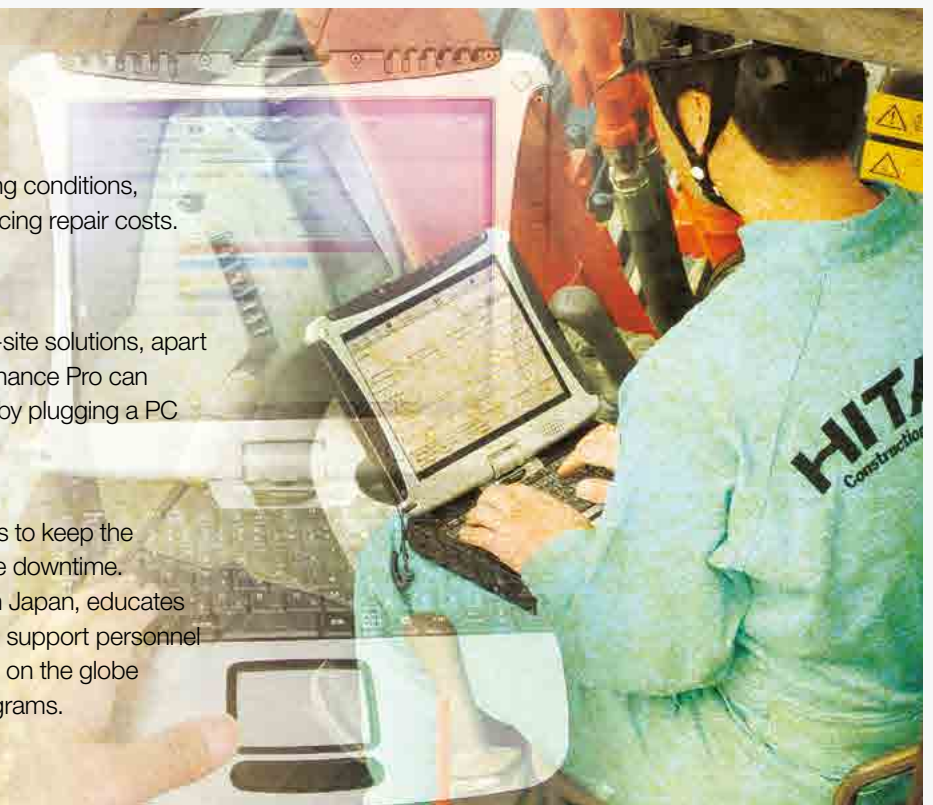
Note: Warranty conditions vary by equipment.

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 GH-6HK1X
Type	4-cycle water-cooled, direct injection
Aspiration	Turbocharged, intercooled
No. of cylinders	6
Rated power	
ISO 9249, net	171 kW (229 HP) at 1 900 min ⁻¹ (rpm)
SAE J1349, net	171 kW (229 HP) at 1 900 min ⁻¹ (rpm)
Maximum torque	994 Nm (101 kgfm) at 1 400 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

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 ..	32.0 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	34.8 MPa (355 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power boost	38.0 MPa (388 kgf/cm ²)

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

Axial 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	11.6 min ⁻¹ (rpm)
Swing torque	91 kNm (9 230 kgfm)

Operator's Cab

Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO* 10262 OPG Top Guard Level 1.

* International Organization for Standardization

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 : ZX300-5A
	8 : ZX300LC-5A
Track shoes	45 : ZX300-5A
	48 : ZX300LC-5A
Track guard	2 : ZX300-5A
	3 : ZX300LC-5A

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 5.5 km/h
	Low : 0 to 3.3 km/h

Maximum traction force .. 246 kN (25 100 kgf)

Gradeability .. 70% (35 degree) continuous

SERVICE REFILL CAPACITIES

Fuel tank	510 L
Engine coolant	35 L
Engine oil	41 L
Swing device	11.7 L
Travel device (each side)	9.2 L
Hydraulic system	290 L
Hydraulic oil tank	156 L

WEIGHTS AND GROUND PRESSURE

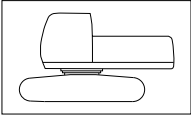
Operating weight and Ground pressure

			ZX300-5A ^{*1}		ZX300LC-5A ^{*1}	
Shoe type	Shoe width	Arm length	kg	kPa(kgf/cm ²)	kg	kPa(kgf/cm ²)
Triple grouser	600 mm	2.42 m	28 100	57 (0.58)	28 800	54 (0.55)
		3.11 m	28 100	57 (0.58)	28 900	54 (0.55)
		3.76 m	28 200	57 (0.58)	29 000	54 (0.55)
	700 mm	2.42 m	28 600	49 (0.50)	29 400	47 (0.48)
		3.11 m	28 700	50 (0.51)	29 500	47 (0.48)
		3.76 m	28 800	50 (0.51)	29 600	47 (0.48)
	800 mm	2.42 m	29 000	44 (0.45)	29 800	42 (0.43)
		3.11 m	29 100	44 (0.45)	29 900	42 (0.43)
		3.76 m	29 200	44 (0.45)	30 000	42 (0.43)
Flat	600 mm	2.42 m	28 900	58 (0.59)	29 700	55 (0.56)
		3.11 m	29 000	58 (0.59)	29 800	56 (0.57)
		3.76 m	29 100	58 (0.59)	29 900	56 (0.57)

*1 :Including 1.25 m³ (ISO heaped) bucket weight (945 kg) and counterweight (5 600 kg).

SPECIFICATIONS

WEIGHT: BASIC MACHINE and COMPONENTS



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

ZX300-5A

Shoe width	Weight	Overall width
600 mm	21 900 kg	3 190 mm
700 mm	22 500 kg	3 290 mm
800 mm	22 900 kg	3 390 mm

ZX300LC-5A

Shoe width	Weight	Overall width
600 mm	22 600 kg	3 190 mm
700 mm	23 200 kg	3 290 mm
800 mm	23 700 kg	3 390 mm

Component weights

	ZX300-5A	ZX300LC-5A
Counterweight	5 600 kg	5 600 kg
Boom (with boom and arm cylinder)	2 930 kg	2 930 kg
Arm 3.11 m (with bucket cylinder)	1 430 kg	1 430 kg

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	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	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					
					ZX300-5A			ZX300LC-5A		
	Without side cutters	With side cutters			Arm 2.42 m	Arm 3.11 m	Arm 3.76 m	Arm 2.42 m	Arm 3.11 m	Arm 3.76 m
1.00 m ³	1 130 mm	1 260 mm	5	850 kg	◎	◎	◎	◎	◎	◎
1.10 m ³	1 220 mm	1 350 mm	5	900 kg	◎	◎	○	◎	◎	◎
1.25 m ³	1 360 mm	1 490 mm	5	945 kg	◎	◎	○	◎	◎	◎
1.40 m ³	1 500 mm	1 630 mm	5	1 020 kg	○	○	—	○	○	□
1.62 m ³	1 700 mm	1 830 mm	5	1 080 kg	□	—	—	□	—	—
*1 1.10 m ³	1 220 mm	1 350 mm	5	1 030 kg	◎	◎	○	◎	◎	◎
*1 1.40 m ³	1 500 mm	1 630 mm	5	1 180 kg	○	○	—	○	○	□
*2 1.10 m ³	1 230 mm	1 360 mm	5	1 030 kg	◎	◎	○	◎	◎	◎
*3 0.92 m ³	1 130 mm	1 180 mm	5	990 kg	●	●	—	●	●	—
*4 0.80 m ³	1 000 mm	—	3	1 220 kg	●	●	—	●	●	—
One-point ripper			1	680 kg	●	●	—	●	●	—

*1 Reinforced bucket

*2 Heavy-duty bucket

*3 Rock bucket

*4 Ripper bucket

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

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

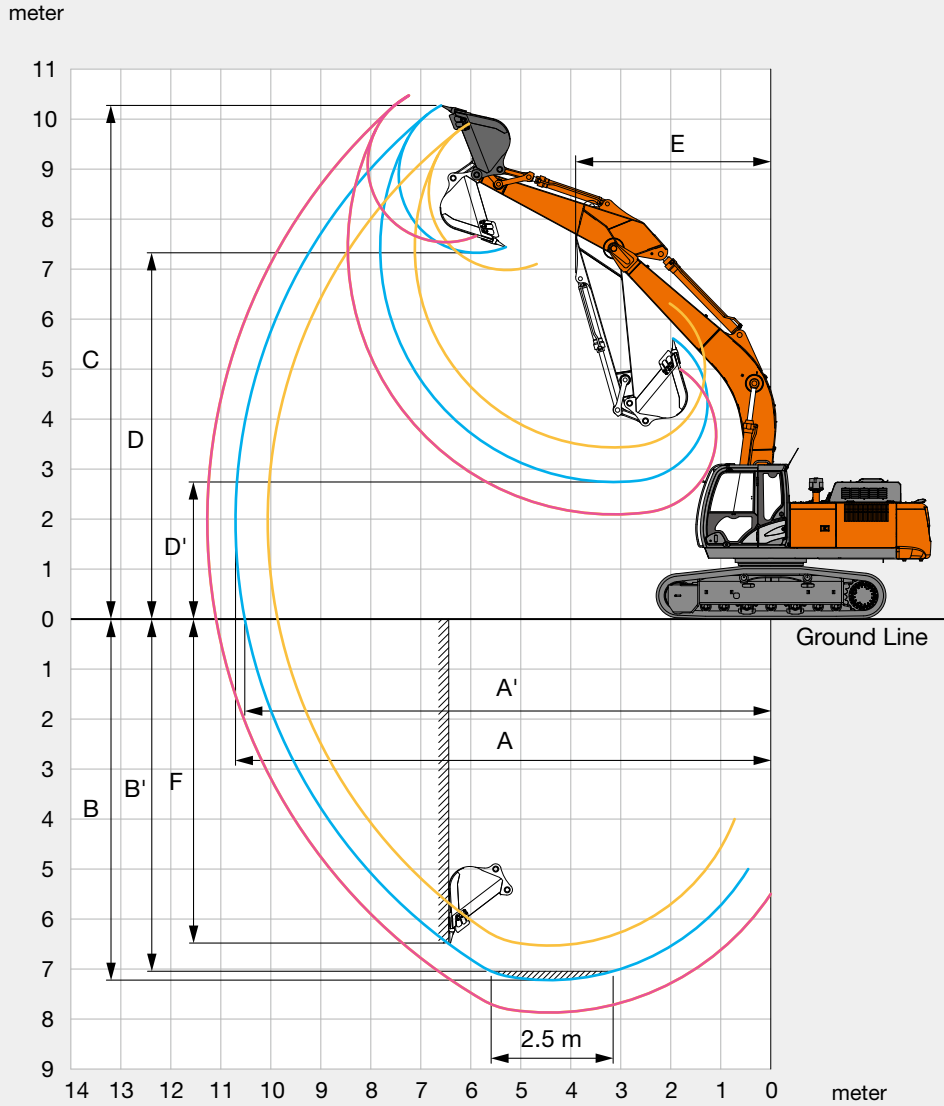
□ Suitable for materials with density of 1 100 kg/m³ or less

● Heavy-duty service

— Not applicable

SPECIFICATIONS

WORKING RANGES

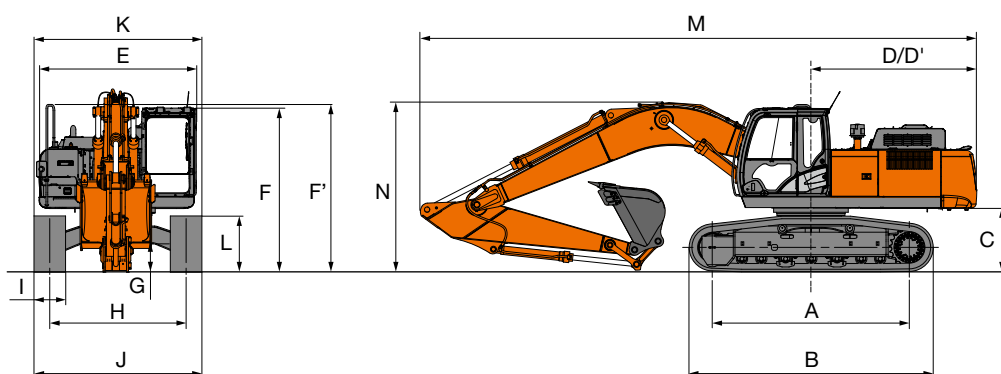


Unit: mm

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	11 090
B Max. digging depth	6 530	7 220	7 870
B' Max. digging depth for 2.5 m level	6 300	7 030	7 700
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	2 090
E Min. swing radius	4 060	3 900	3 890
F Max. vertical wall digging depth	5 650	6 480	7 050

Excluding track shoe lug

DIMENSIONS





Unit: mm













	ZX300-5A	ZX300LC-5A
A Distance between tumbler	3 730	4 050
B Undercarriage length	4 670	4 940
C Counterweight clearance	1 130	1 130
D Rear-end swing radius	3 250	3 250
D' Rear-end length	3 210	3 210
E Overall width of upperstructure	2 990	2 990
F Overall height of cab	3 120	3 120
F' Overall height of upperstructure	3 200	3 200
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 arm 2.42 m	10 710	10 710
With arm 3.11 m	10 620	10 620
With arm 3.76 m	10 670	10 670
N Overall height of boom		
With arm 2.42 m	3 450	3 450
With arm 3.11 m	3 200	3 200
With arm 3.76 m	3 380	3 380

G: Triple grouser shoe

LIFTING CAPACITIES (Without Bucket)

ZX300-5A

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
																
Boom 6.20 m Arm 2.42 m Counterweight 5 600 kg Shoe 600 mm	6.0							*8 040	8 010					*7 800	5 630	7.46
	4.5					*11 280	*11 280	*9 040	7 700	7 740	5 490			6 830	4 850	8.11
	3.0					*14 220	10 960	*10 340	7 310	7 550	5 320			6 310	4 460	8.44
	1.5							10 220	6 990	7 370	5 150			6 160	4 330	8.49
	0 (Ground)					15 870	10 220	10 020	6 800	7 250	5 040			6 340	4 430	8.27
	-1.5			*10 350	*10 350	*15 820	10 240	9 970	6 760	7 240	5 030			6 940	4 830	7.75
	-3.0			*18 920	*18 920	*14 320	10 390	10 070	6 850					8 330	5 760	6.86
	-4.5			*14 680	*14 680	*11 190	10 750							*9 010	8 230	5.42
Boom 6.20 m Arm 3.11 m Counterweight 5 600 kg Shoe 600 mm	6.0							*7 140	*7 140	*6 960	5 710			*4 740	*4 740	8.19
	4.5					*9 840	*9 840	*8 200	7 850	*7 400	5 570			*4 730	4 310	8.78
	3.0					*12 820	11 320	*9 610	7 440	7 610	5 370	*5 570	4 060	*4 890	4 000	9.09
	1.5					*15 230	10 580	10 320	7 060	7 400	5 170	5 650	3 970	*5 220	3 880	9.14
	0 (Ground)					15 900	10 230	10 040	6 810	7 240	5 020			5 650	3 950	8.93
	-1.5	*6 820	*6 820	*10 250	*10 250	15 810	10 150	9 920	6 700	7 170	4 950			6 080	4 240	8.45
	-3.0	*11 900	*11 900	*16 480	*16 480	*15 200	10 240	9 950	6 730	7 220	5 010			7 040	4 890	7.65
	-4.5			*17 660	*17 660	*12 950	10 490	*9 560	6 930					*8 660	6 380	6.39
Boom 6.20 m Arm 3.76 m Counterweight 5 600 kg Shoe 600 mm	7.5									*5 160	*5 160			*3 950	*3 950	7.94
	6.0									*6 240	5 810			*3 810	*3 810	8.82
	4.5							*7 360	*7 360	*6 780	5 650	*5 250	4 200	*3 820	*3 820	9.37
	3.0					*11 420	*11 420	*8 830	7 570	*7 560	5 430	5 780	4 090	*3 950	3 650	9.66
	1.5					*14 210	10 790	*10 310	7 150	7 430	5 200	5 660	3 970	*4 200	3 540	9.70
	0 (Ground)			*6 510	*6 510	*15 830	10 280	10 070	6 830	7 230	5 010	5 560	3 880	*4 640	3 590	9.51
	-1.5	*6 480	*6 480	*9 930	*9 930	15 740	10 090	9 880	6 660	7 120	4 900	5 510	3 830	*5 360	3 800	9.06
	-3.0	*10 280	*10 280	*14 500	*14 500	*15 740	10 100	9 840	6 630	7 110	4 890			6 170	4 290	8.32
	-4.5	*14 880	*14 880	*19 910	*19 910	*14 100	10 270	9 970	6 740					7 700	5 320	7.18
-6.0			*14 650	*14 650	*10 530	*10 530							*8 380	8 170	5.41	

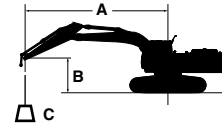
Notes: 1. Ratings are based on ISO 10567.

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

3. The load point is the center-line of the bucket pivot mounting pin on the arm.

4. *Indicates load limited by hydraulic capacity.

5. 0 m = Ground.



A: Load radius

B: Load point height

C: Lifting capacity

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

ZX300LC-5A

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

Conditions	Load point height m	Load radius												At max. reach		
		1.5 m		3.0 m		4.5 m		6.0 m		7.5 m		9.0 m		meter		
Boom 6.20 m Arm 2.42 m Counterweight 5 600 kg Shoe 600 mm	6.0							*8 040	*8 040					*7 800	5 760	7.46
	4.5					*11 280	*11 280	*9 040	7 870	*8 050	5 610			7 730	4 960	8.11
	3.0					*14 220	11 200	*10 340	7 480	8 580	5 440			7 160	4 570	8.44
	1.5							*11 460	7 150	8 390	5 270			6 990	4 440	8.49
	0 (Ground)					*16 230	10 460	11 530	6 970	8 270	5 170			7 200	4 540	8.27
	-1.5			*10 350	*10 350	*15 820	10 480	11 470	6 920	8 260	5 150			7 900	4 950	7.75
	-3.0			*18 920	*18 920	*14 320	10 640	*10 890	7 020					*9 130	5 900	6.86
	-4.5			*14 680	*14 680	*11 190	11 000							*9 010	8 420	5.42
Boom 6.20 m Arm 3.11 m Counterweight 5 600 kg Shoe 600 mm	6.0							*7 140	*7 140	*6 960	5 830			*4 740	*4 740	8.19
	4.5					*9 840	*9 840	*8 200	8 020	*7 400	5 690			*4 730	4 410	8.78
	3.0					*12 820	11 570	*9 610	7 610	*8 100	5 490	*5 570	4 160	*4 890	4 100	9.09
	1.5					*15 230	10 820	*10 920	7 230	8 420	5 290	*6 400	4 070	*5 220	3 980	9.14
	0 (Ground)					*16 280	10 480	11 550	6 980	8 250	5 140			*5 800	4 050	8.93
	-1.5	*6 820	*6 820	*10 250	*10 250	*16 210	10 400	11 420	6 870	8 180	5 080			*6 800	4 350	8.45
	-3.0	*11 900	*11 900	*16 480	*16 480	*15 200	10 480	*11 450	6 900	8 240	5 130			8 020	5 010	7.65
	-4.5			*17 660	*17 660	*12 950	10 740	*9 560	7 090					*8 660	6 540	6.39
Boom 6.20 m Arm 3.76 m Counterweight 5 600 kg Shoe 600 mm	7.5									*5 160	*5 160			*3 950	*3 950	7.94
	6.0									*6 240	5 940			*3 810	*3 810	8.82
	4.5							*7 360	*7 360	*6 780	5 770	*5 250	4 300	*3 820	*3 820	9.37
	3.0					*11 420	*11 420	*8 830	7 740	*7 560	5 550	*6 530	4 190	*3 950	3 740	9.66
	1.5					*14 210	11 040	*10 310	7 310	*8 390	5 320	6 420	4 070	*4 200	3 630	9.70
	0 (Ground)			*6 510	*6 510	*15 830	10 530	*11 400	7 000	8 250	5 140	6 320	3 980	*4 640	3 680	9.51
	-1.5	*6 480	*6 480	*9 930	*9 930	*16 270	10 330	11 390	6 830	8 130	5 030	*5 880	3 930	*5 360	3 900	9.06
	-3.0	*10 280	*10 280	*14 500	*14 500	*15 740	10 340	11 350	6 800	8 120	5 020			*6 650	4 400	8.32
	-4.5	*14 880	*14 880	*19 910	*19 910	*14 100	10 520	*10 550	6 910					*8 280	5 450	7.18
-6.0			*14 650	*14 650	*10 530	*10 530							*8 380	8 360	5.41	

EQUIPMENT

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

● : Standard equipment

○ : Optional equipment

	ZX300-5A/ZX300LC-5A
ENGINE	
Air cleaner double filters	●
Alternator 50 A	●
Auto idle system	●
Auto shut-down control	●
Cartridge-type engine oil filter	●
Cartridge-type fuel main filter	●
Cartridge-type fuel pre-filter with water separator	●
Dry-type air filter with evacuator valve (with air filter restriction indicator)	●
Dust-proof indoor net	●
ECO/PWR mode control	●
Engine oil drain coupler	●
Engine warm-up device	●
Fan guard	●
Fuel cooler	●
Maintenance free pre-cleaner	○
Radiator expansion tank	●
HYDRAULIC SYSTEM	
Auto power lift	●
Control valve with main relief valve	●
Full flow filter	●
High mesh full flow filter with restriction indicator	○
One extra port for control valve	●
Pilot filter	●
Power boost	●
Suction filter	●
Work mode selector	●

	ZX300-5A/ZX300LC-5A
CAB	
All-weather sound suppressed steel cab	●
AM-FM radio with 2 speakers	●
Ashtray	●
Auto control air conditioner	●
AUX. terminal and storage	○
Cab (Center pillar reinforced structure)	●
Cigarette lighter 24V	●
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	●
Glove compartment	●
Hot & cool box	●
Intermittent windshield wipers	●
Key cylinder light	●
LED room light with door courtesy	●
Lower cab front guard	○
OPG top guard Level I (ISO10262) compliant cab	●
Pilot control shut-off lever	●
Rain guard	○
Rear tray	●
Retractable seat belt	●
ROPS (ISO 12117-2) compliant cab	○
Rubber radio antenna	●
Seat : air suspension seat with heater	○
Seat : fabric seat	●
Seat : mechanical suspension seat	○
Seat adjustment part : backrest, armrest, height and angle, slide forward / back	●
Short wrist control levers (bold type)	○
Short wrist control levers (slim type)	●
Upper cab front guard	○
4 fluid-filled elastic mounts	●
12 V power source	○

	ZX300-5A/ZX300LC-5A
MONITOR SYSTEM	
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	●
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 boom light with cover	○
Additional cab roof front lights	○
Rear light	○
2 working lights	●

UPPER STRUCTURE	
Batteries 2 x 128 Ah	●
Counterweight 5 600 kg	●
Electric fuel refilling pump	○
Fuel level float	●
Hydraulic oil level gauge	●
Lockable fuel refilling cap	●
Lockable machine covers	●
Rear view camera	●
Rear view mirror (right & left side)	●
Swing parking brake	●
Tool box	●
Undercover	●
Undercover 6.0 mm reinforced	○
Utility space	●

UNDERCARRIAGE	
Bolt-on sprocket	●
Reinforced track links with pin seals	●
Shoe: 600 mm triple grouser	●
Track undercover 9.0 mm reinforced	○
Travel direction mark on track frame	●
Travel motor covers	●
Travel parking brake	●
Upper and lower rollers	●
2 track guards : ZX300-5A (each side)	●
3 track guards : ZX300LC-5A (each side)	●
4 tie down brackets	●

	ZX300-5A/ZX300LC-5A
FRONT ATTACHMENTS	
Arm 2.42 m	○
Arm 3.11 m	●
Arm 3.76 m	○
Boom 6.20 m	●
Bucket 1.25 m ³ (ISO heaped)	●
Casted bucket link A	●
Centralized lubrication system	●
Dirt seal on all bucket pins	●
Flanged pin	●
HN bushing	●
Hose rupture valves	○
Reinforced resin thrust plate	●
WC (tungsten-carbide) thermal spraying	●

ATTACHMENTS	
Additional pump	○
Assist piping	○
Attachment basic piping	○
Breaker and crusher piping	○
Parts for breaker and crusher	○
Pilot accumulator	○
2 pump combined flow for attachment basic piping	○

MISCELLANEOUS	
Global e-service	●
Onboard information controller	●
Skid-resistant plates and handrails	●
Standard tool kit	●
Swing motion alarm device with lumps	○
Travel motion alarm device	○



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.