

HYDRAULIC EXCAVATOR

- Model Code : ZX240N-3
- Model Code: ZXZ40N-3
 Engine Rated Power: 122 kW (164 HP)
 Operating Weight: ZXZ40N-3: 22 400 kg 23 200 kg
 Backhoe Bucket: SAE, PCSA Heaped: 0.51 1.20 m³

 CECE Heaped: 0.45 1.00 m³

The Power to Perform

The ZAXIS-3 series is a new generation of excavators designed to provide more efficient power, productivity and improved operator comfort. By listening carefully to the wishes of the end-user, HITACHI not only understands your business, but also provides the reliable solutions you've been looking for.

NEW AND IMPROVED

Performance:

12% higher production Excellent stability performance

Comfort:

Excellent visibility
Enhanced controllability
Lower noise level

New equipment:

Standard satellite communication system Standard rear view camera Standard theft deterrent system

Reduced running costs:





Productivity

New E-mode

New hydraulic system HIOS III Hydraulic boosting system Enhanced boom recirculation system

New electronic controlled diesel engine

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Operator comfort

High visibility inside cab Short stroke levers Wide foot space Comfort designed seat Improved controlability and operator comfort

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Multi function monitor

Maintenance support Attachment support system Rear view camera Theft deterrent system Fuel consumption monitoring

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Durability and reliability

Strengthened undercarriage Strengthened X beam Improved idler brackets Strengthened front attachment

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Maintenance

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Safety measures

CRES II cab

Cab right protection bars Pilot control shut-off lever Engine shut-off switch

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Environment measures

Array of low noise mechanisms Ecological design

The new engine complies with

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More production, less fuel consumption

Increased Production

A combination of the hydraulic system (HIOS*III) and new OHC** 4-valve engine allows the efficient use of hydraulic pressure to increase speeds of actuators and boost production with higher fuel efficiency. The productivity is increased 12% in comparison to previous model ZAXIS-1.

*Human & Intelligent Operation System

New E-mode

The new E mode, H/P mode and P mode can be selected to suit job needs. The new E mode can save fuel consumption by up to 13% compared to the previous model's P mode, while yielding similar production.

Increase in Swing Torque and **Traction Force**

Swing torque and traction force are increased significantly.

- -Swing torque 13% UP
- -Traction force 8% UP

Sophisticated Travel Control; At climbing or steering, when the machine needs more traction force, the engine speed automatically increases which makes the machine faster.

Efficient hydraulic control - HIOS III

ZAXIS-1 adapted HIOS II hydraulic system that is suitable for fine controllability by the operators. Continuously HITACHI developed new advanced hydraulic technology HIOS III for ZAXIS-3. In addition to the fine controllability this new system increases the efficiency of hydraulic circuit and increases speed of actuators.

The Hydraulic Boosting System

In arm roll-in and boom raise operation, excess pressure oil is delivered from boom cylinder rod side to arm cylinder bottom side to increase flow rate for higher arm roll-in speed with 20%. Excess pressure oil from boom cylinder rod side is delivered to arm cylinder bottom side through a regenerative valve to increase flow rate for productive operation.

Enhanced Boom Recirculation System

In combined operation of boom lower and arm, pressure oil from boom cylinder bottom side is delivered to boom cylinder rod side, assisted by boom weight, for boom lowering. At the same time, pressure oil from the pump is delivered to the arm cylinder for arm movement

This mechanism allows an increase of speed in combined operation of 15%.

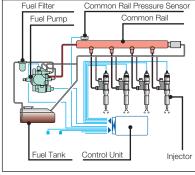
Development concept of new engine

OHC 4-Valve Engine

The new OHC 4-valve diesel engine is developed and built to comply with the rigorous Emission Regulations enforced in 2006 in U.S and EU. This new engine contributes to environmental preservation. At the same time it realizes high durability and low fuel consumption by adapting the latest advanced engine technology.

Common Rail Type Fuel Injection System

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



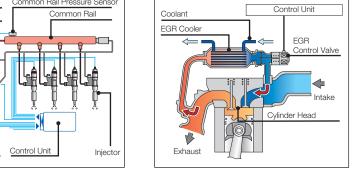
Cooled EGR** System

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

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

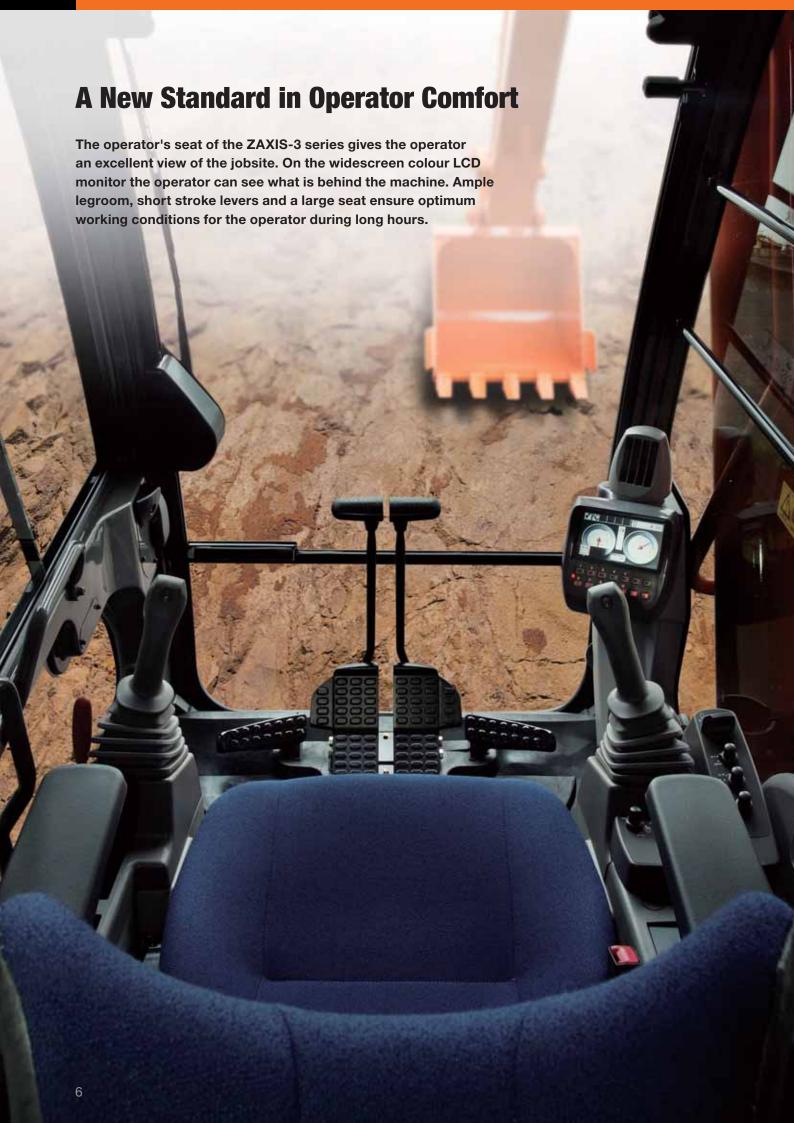
*Particulate Matter

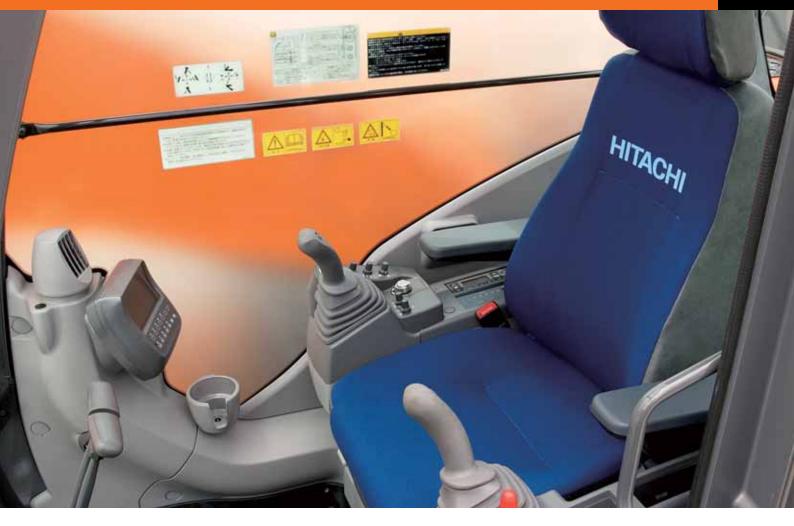
**Exhaust Gas Recirculation





^{**}OverHead Camshaft





The ZAXIS-3 series cab has been redesigned to meet demands of customers. From the operator's seat the operator has an excellent view of the jobsite. On the widescreen color LCD monitor the operator can see machine conditions and with the rear view camera, what is behind the machine. Ample legroom, short stroke levers and a suspension seat with heating ensure optimum working conditions. The seat features horizontal, vertical adjustments and has a backrest contoured for comfort, with a HITACHI logo.





Wide adjustable armrests and a retractable seat belt are included. Short stroke levers allow for continuous operation with less fatigue. Three switches on the lever (optional) can be set to operate attachments other than buckets. The cab is pressurized to keep out dust. Noise and vibrations are kept to a minimum due to the elastic mounts, filled with silicone oil, the cab rests on.

Visibility is improved especially for the right downward view. Sliding windows on the front and side enable direct communication between operator and other workers. Foot space has increased and travel pedals have been redesigned for easier operation.

A flat floor allows for easy cleaning. Ergonomic controls and switches, fully automatic air conditioner and a radio complete the package.

Embedded Information Technology

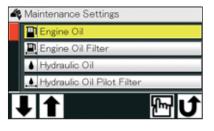
The ZAXIS-3 series is equipped with a widescreen color LCD monitor with adjustable contrast for day and night shifts. With the monitor the operator can check maintenance intervals, select work modes, monitor fuel consumption, and connect to the rear view camera. A theft deterrent system and multilanguage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

Multi function monitor



The color LCD monitor, located in the cab, indicates coolant temperature, fuel level, and maintenance data. It also allows one-touch adjustment of the attachment. The display can also be adjusted to day or night shift.

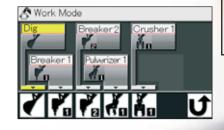
Maintenance support





Replacement timing of hydraulic oil and fuel filters is alerted to the operator through the LCD monitor according to the schedule preset by the user each time when turning the key switch. The scheduled maintenance can prevent the failure of the machine.

Attachment support system (work mode selector)



When replacing the attachment, oil flow adjustment can automatically be done by one touch on the work mode selection display on the LCD monitor. Minor adjustments of oil flow is possible if necessary.

Multi-language selection



The menu allows selection from 12 languages.



energy-saving operation and efficient

job management.



Strengthened undercarriage

The undercarriage for supporting the machine body features exceptional durability and rigidity. It also features a small, 2.5-meter footprint for convenient transportation and use in virtually any application.

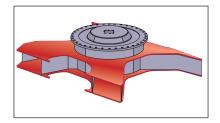
The upper and lower rollers, idler, and the track link have been strengthened, drawing from the higher level ZAXIS250.

In particular, the track frame has been strengthened, improving overall operability.



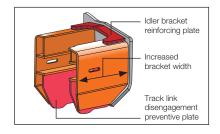
Strengthened X beam and side frames

The X-beam is strengthened by the improved construction and enlarged box sections. The section is increased in strength up to 35 % (maximum). Top and bottom plates of the X-beam use monolithic plates, instead of conventional welded four plates. This eliminates welding to strengthen the X-beam.



Improved idler brackets

The idler bracket reinforcing plate is thickened greatly for higher durability to prevent the opening of the idler bracket. The track link disengagement preventive plate, located immediately behind the idle bracket, extends its top to prevent track link disengagement and increase durability.



Strengthened front attachment

The boom top bracket is strengthened by using high-tensile steel. At arm-bucket joint, the arm top is hardened with WC thermal spraying (Tungsten-Carbide) for greater wear resistance at its contact surface with bucket, reducing jerking. Reinforced resin thrust plates designed to reduce noise and resist wear.

The new HN bushings, containing "solid molybdenum-based lubricant", are utilized at the boom-arm joint and arm cylinder mounting area for better lubrication and higher durability. (At other joints, conventional HN bushings are also utilized.)

The boom foot is enlarged for higher strength. This improvement increases the durability and reliability under heavy-duty operation.



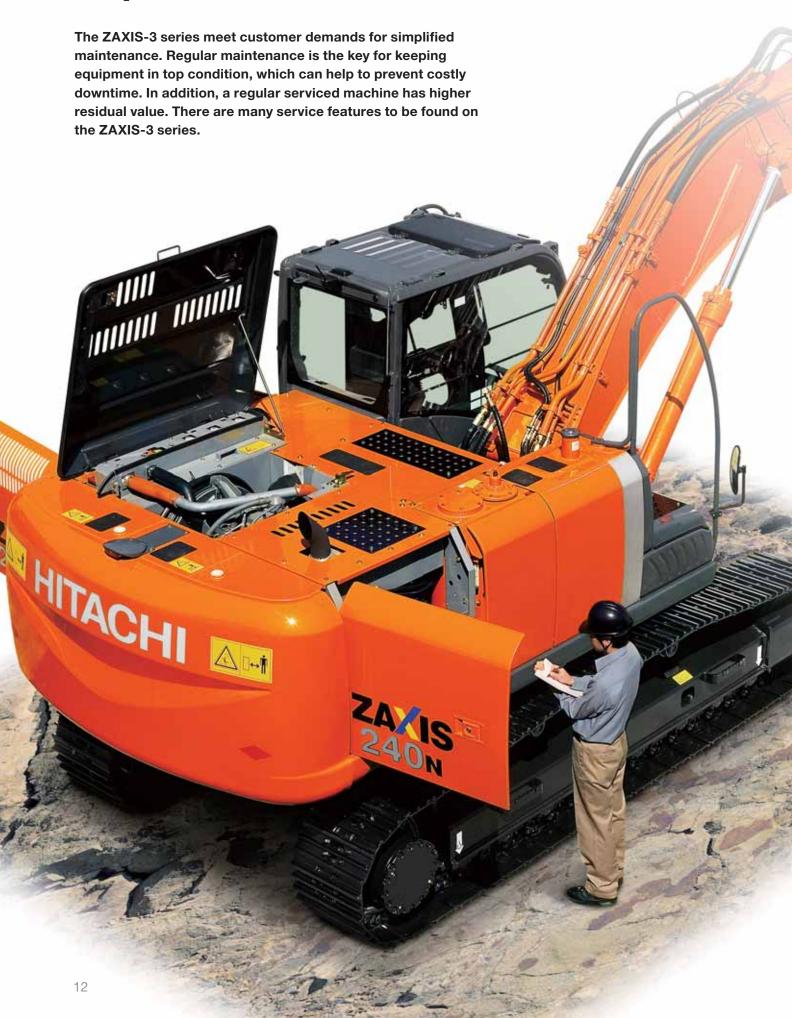
New HN bushing





Reinforced resin thrust plates

Simplified Maintenance



Conveniently located inspection points





Wide doors give access, from ground level, to the fuel filter, water separator and engine oil filter. A large handrail, steps and anti-skid plates lead to the engine cover. The engine oil pan is fitted with a drain coupler. When draining, an associated drain hose is connected to the drain coupler. The drain coupler is reliable, avoiding oil leakage and vandalism.



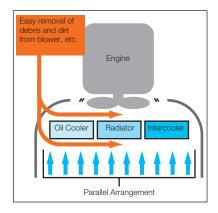
The fresh air filter for the air conditioner is relocated to cab door side from conventional location behind the operator seat. This allows easy cleaning and replacement of the fresh air filter, like the air circulation filter inside the cab.

Parallel arrangement of the cooling pack





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



Extended oil and filter change intervals

Front Pin Lubricating Intervals and Consumables Replacement						
	New ZAXIS 240N					
Lubricant Bucket	500 h					
Boom Foot	500 h					
Front	500 h					
Consumables Engine Oil	500 h					
Engine Oil Filter	500 h					
Hydraulic Oil	5 000 h					
Hydraulic Oil Filter	1 000 h					
Fuel Filter	500 h					

The oil and filter change intervals have been extended considerably, reducing maintenance time and expenses. Engine oil consumption is lower. Hydraulic oil can be used up to 5 000 hours.



CRES II cab

The CRES II cab is designed to help with "just in case" protection for the operator. Safety in case of tipping is improved. The upper side rails of the cab offer 2.5 times more impact resistance than previous models, absorbing up to 200 mm deformation.



Additional features

Cab right protection bars



Pilot control shut-off lever



Evacuation hammer



FOPS guard



Other features include a retractable seatbelt, evacuation hammer and emergency engine shut-off switch. A shut-off lever for pilot control helps to prevent unintentional movements. In addition a Falling Object Protective Structure (FOPS) guard is optionally available. For the cab windows there is a choice of laminated or tempered glass.



Engine shut-off switch



Retractable seat belt





A cleaner machine

The ZAXIS-3 series is equipped with a clean but powerful engine to comply with Tier 3, and Stage III A. An engine emission regulations effective in the U.S. EPA and European Union from 2006. Exhaust gas is partly re-combusted to reduce particulate matter (PM) output and lower nitrogen oxide (NOx) levels.



A quieter machine

A number of features make this machine quieter. First, isochronous control of the engine speed means a restriction of engine speed during no-load and light-duty operation to suppress sound. A fan with curved blades reduces air resistance and air flow noise. Third, a time-tested muffler suppresses engine noise significantly. This advanced low noise design complies with the 2000 / 14 / EC, Stage II, directive effective in the European Union from 2006.



A recyclable machine

Over 97% of the ZAXIS-3 series can be recycled. All resin parts are marked to facilitate recycling. The machine is completely lead-free. The radiator and oil cooler are made from aluminium and all wires are lead-less. In addition, biodegradable hydraulic oil is available for jobsites where special environmental care is required.



Remote fleet management with e-Service Owner's Site

Reduce maintenance effort and costs for your machine fleet with e-Service Owner's Site; latest machine information of each of your machines available on-line, in your office.



e-Service Owner's Site features

Operation

Remote access to all relevant machine operation information such as daily operating hours and machine fuel level as well as historically cumulated temperatures and pressures.



Maintenance

For each machine, maintenance history as well as recommended maintenance due is displayed in one view, allowing for accurate and efficient fleet maintenance management.



Location

In addition to any general GPS function, GIS (Geographical Information System) will not only show the geographical position of each machine with immediate serial number identification, it will also allow for dedicated multiple machine searches using specific operational information as search criteria.



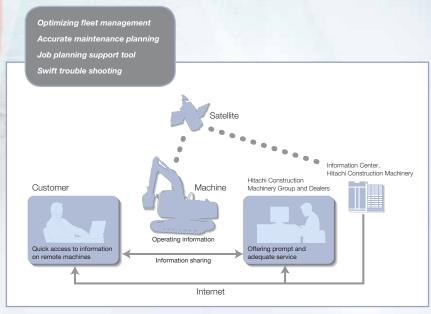
Check and monitor each of your machines from your office

Enhanced service support from your local dealer

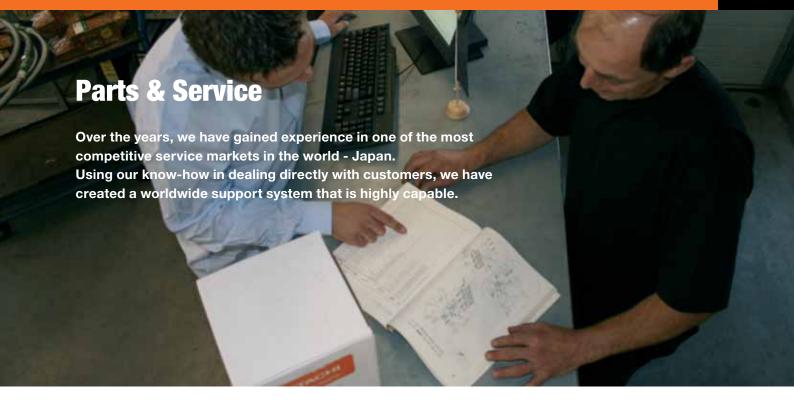
Actual geographical location of each of your machines

e-Service Owner's Site is an on-line fleet management tool offered by HCME to each of its customers. It will present all operational information and location of your machines on a PC in your office, giving you an up to date overview of your machines, allowing for full fleet control. Each machine will regularly send its operational data to a satellite and from there, via a ground station to a Hitachi server. The data collected in the server will then be processed and directed to each customer around the world. Your machine information will be available through a secure internet connection for you and your dealer. This communication chain is operational 24h a day, each day of the year. It will support your job planning, help you maintain your machine and allow for enhanced service and trouble shooting support by your local dealer, all directly contributing to reduce downtime and increase the cost performance of your fleet.

All new ZAXIS-3 and ZW machines supplied by HCME will have a satellite communication unit installed as standard*, meaning each owner can directly enjoy the benefits of e-Service Owner's Site. Your local dealer will be able to give you access to e-Service Owner's Site.



- * (1) Satellite communication units can not be installed in machines for countries that currently do not have Satellite Communication Services available. At the time of print however, the majority of European countries have Satellite Communication Services available and full European coverage is expected.
- (2) Satellite communication basically allows for worldwide coverage. Contact your local dealer for the latest situation on actual satellite communication availability for your country or specific jobsite.
- (3) If transmission of the satellite signal is hindered in any way, satellite communication may not be possible.



Parts

HITACHI only offers genuine high quality parts. We guarantee that these parts have high performance and long life. We manage around 1 000 000 types of parts all around the world. They are designed and built to be the best match for your HITACHI equipment. HITACHI has a global parts distribution network that makes sure you get what you need as quickly as possible. We have more than 150 dealers worldwide who provide the closest support for your needs.

In most cases, your dealer will have the replacement part that you require. If a dealer does not have a certain part, he can order it from four fully stocked parts depots located across the world. These distribution centres are all connected by an on-line system that gives them access to shared information on stocks, such as the number and type of available parts.

The depots, which in turn are stocked by a parts center in Japan, minimize delivery time and enable you to get your parts as efficiently and quickly as possible.

Service

Our goal is to "keep customer equipment at a maximum performance level". To fulfil this goal, we have set more than 150 dealers all over the world. They have highly trained technicians, and provide a number of support programs.

HITACHI provides a unique extended warranty program called HITACHI Extended Life Program, or HELP. To minimize downtime during troubleshooting, we developed a PDA based diagnostic system called "Dr.ZX". To keep our customers' equipment in top running shape, good service is indispensable. We believe personnel training is the key to providing the best service.

If you would like more information regarding parts and/or service, please ask your nearest HITACHI dealer. Not all programs and/or services are available in every market or region.

ENGINE

Model Isuzu Al-4HK1X

Type 4-cycle water-cooled, direct injection

Aspiration Turbocharged, intercooled

No. of cylinders 4

Rated power

Piston displacement .. 5.193 L

Bore and stroke 115 mm x 125 mm Batteries 2 x 12 V / 150 Ah

HYDRAULIC SYSTEM

• Work mode selector

Digging mode / Attachment mode

• Engine speed sensing system

Main pumps 2 variable displacement axial piston pumps

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	34.3 MPa (350 kgf/cm ²)
Travel circuit	34.3 MPa (350 kgf/cm ²)
Pilot circuit	3.9 MPa (40 kgf/cm ²)
Power boost	36.3 MPa (370 kgf/cm ²)

Hydraulic Cylinders

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

Dimensions

	Quantity	Bore	Rod diameter
Boom	2	120 mm	85 mm
Arm	1	135 mm	95 mm
Bucket	1	115 mm	80 mm
Positioning	1	150 mm	100 mm

Hydraulic Filters

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

CONTROLS

Pilot controls. Hitachi's original shockless valve.

UPPERSTRUCTURE

Revolving Frame

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

Swing Device

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

Swing speed 13.3 min⁻¹ (rpm)

Operator's Cab

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

* International Standardization Organization

UNDERCARRIAGE

Tracks

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

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

Numbers of Rollers and Shoes on Each Side

Upper rollers	2
Lower rollers	8
Track shoes	49
Track guard	1

Travel Device

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

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

Travel speeds High: 0 to 5.5 km/h

Low: 0 to 3.5 km/h

Maximum traction force .. 203 kN (20 710 kgf)

Gradeability 35° (70%) continuous



WEIGHTS AND GROUND PRESSURE

ZX240N-3 WITH MONOBLOCK BOOM:

Equipped with 5.68 m monoblock boom, 2.91 m arm and 0.80 m^3 bucket (SAE, PCSA heaped).

Shoe type Shoe width		oe type Shoe width Operating weight		
Triple grouser	550 mm	22 500 kg	54 kPa (0.55 kgf/cm²)	

ZX240N-3 WITH 2-PIECE BOOM:

Equipped with 2-piece boom, 2.91 m arm and 0.80 m^3 bucket (SAE, PCSA heaped).

Shoe type	Shoe width	Ground pressure	
Triple grouser	550 mm	23 200 kg	55 kPa (0.56 kgf/cm²)

Weight of the basic machines [including 5 500 kg counterweight and triple grouser shoes, excluding front-end attachment, fuel, hydraulic oil, engine oil and coolant etc.] are:

SERVICE REFILL CAPACITIES

Fuel tank	400 O I
Engine coolant	
Engine oil	
Swing device	
Travel device	
(each side)	
Hydraulic system	240.0 L
Hydraulic oil tank	

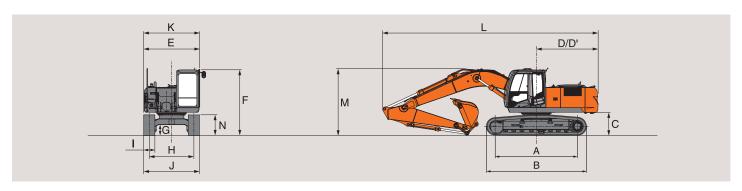
BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 5.68 m monoblock boom, 2-piece boom and 2.03 m, 2.42 m and 2.91 m arms are available.

BUCKETS

Capacity SAE, PCSA heaped	Width without side cutters	Weight
0.56 m ³	700 mm	498 kg
0.68 m ³	800 mm	548 kg
0.80 m ³	1 030 mm	660 kg
0.90 m ³	1 000 mm	608 kg
1.02 m ³	1 100 mm	658 kg
1.13 m³	1 200 mm	688 kg
1.25 m ³	1 300 mm	718 kg

DIMENSIONS: MONOBLOCK BOOM



Unit: mm

	ZX240N-3	
A Distance between tumblers	3 460	
B Undercarriage length	4 260	
* C Counterweight clearance	1 020	
D Rear-end swing radius	2 750	
D' Rear-end length	2 740	
E Overall width of upperstructure	2 480	
F Overall height of cab	2 950	
* G Min. ground clearance	450	
H Track gauge	1 980	
I Track shoe width	G 550	
J Undercarriage width	2 480	
K Overall width	2 500	
L Overall length		
With 2.03 m arm	9 680	
With 2.42 m arm	9 680	
With 2.91 m arm	9 580	
M Overall height of boom		
With 2.03 m arm	3 150	
With 2.42 m arm	3 180	
With 2.91 m arm	3 010	
N Track height with triple grouser shoes	920	

^{*} Excluding track shoe lug

WORKING RANGES

Unit: mm

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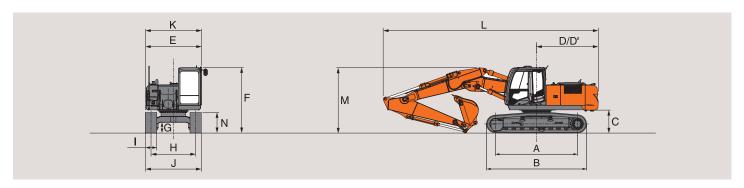
	ZX240N-3						
	5	5.68 m Monoblock boon	n				
Arm length	2.03 m	2.42 m	2.91 m				
A Max. digging reach	9 300	9 500	9 990				
A' Max. digging reach (on ground)	9 110	9 320	9 820				
B Max. digging depth	5 800	6 180	6 670				
B' Max. digging depth (8' level)	5 580	5 950	6 480				
C Max. cutting height	9 850	9 670	10 040				
D Max. dumping height	6 940	6 830	7 180				
E Min. swing radius	3 480	3 350	3 250				
F Max. vertical wall	5 210	5 300	5 990				
Bucket digging force** ISO	151 kN (15 400 kgf)						
Bucket digging force** SAE : PCSA	SA 129 kN (13 200 kgf)						
Arm crowd force** ISO	145 kN (14 800 kgf)	133 kN (13 600 kgf)	109 kN (11 100 kgf)				
Arm crowd force** SAE : PCSA	134 kN (13 700 kgf)	124 kN (12 700 kgf)	102 kN (10 400 kgf)				

Excluding track shoe lug ** At power boost

G: Triple grouser shoe



DIMENSIONS: 2-PIECE BOOM



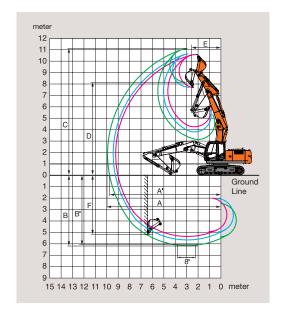
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* C Counterweight clearance	1 020
D Rear-end swing radius	2 750
D' Rear-end length	2 740
E Overall width of upperstructure	2 480
F Overall height of cab	2 950
* G Min. ground clearance	450
H Track gauge	1 980
I Track shoe width	G 550
J Undercarriage width	2 480
K Overall width	2 500
L Overall length	
With 2.03 m arm	9 640
With 2.42 m arm	9 620
With 2.91 m arm	9 560
M Overall height of boom	
With 2.03 m arm	3 010
With 2.42 m arm	3 060
With 2.91 m arm	3 010
N Track height with triple grouser shoes	920

^{*} Excluding track shoe lug

WORKING RANGES





		ZX240N-3			
		2-piece boom			
Arm length	2.03 m	2.42 m	2.91 m		
A Max. digging reach	9 280	9 500	10 000		
A' Max. digging reach (on ground)	9 090	9 320	9 820		
B Max. digging depth	5 420	5 720	6 230		
B' Max. digging depth (8' level)	5 300	5 610	6 120		
C Max. cutting height	10 590	10 640	11 080		
D Max. dumping height	7 670	7 700	8 150		
E Min. swing radius	2 700	2 700	2 390		
F Max. vertical wall	4 560	4 720	5 280		
Bucket digging force** ISO		151 kN (15 400 kgf)			
Bucket digging force** SAE : PCSA		129 kN (13 200 kgf)			
Arm crowd force** ISO	145 kN (14 800 kgf)	133 kN (13 600 kgf)	109 kN (11 100 kgf)		
Arm crowd force** SAE : PCSA	134 kN (13 700 kgf)	124 kN (12 700 kgf)	102 kN (10 400 kgf)		

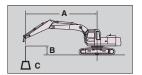
Excluding track shoe lug ** At power boost

G: Triple grouser shoe

LIFTING CAPACITIES

Metric measure

- Notes: 1. Ratings are based on ISO 10567.
 - Lifting capacity of the ZAXIS Series 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

ZX240N-3 MONOBLOCK BOOM

ZX240N-3 MON	Rating ov	er-front	Rating of	over-side or 3	Unit : kg									
	Load					Load					,			
Conditions	point	1.5		3	.0	4	.5	6	.0	7	.5	At max. reach		
Officialions	height	ů		ů	@	ů		ů	©	ů	©	ů	©	meter
Boom 5.68 m	6.0 m					*6 281	*6 281	*5 883	4 869			*5 955	4 194	6.57
Arm 2.03 m	4.5 m					*7 581	7 163	*6 283	4 738			5 804	3 492	7.34
Counterweight 5 500 kg	3.0 m					*9 418	6 650	*7 023	4 532	5 546	3 318	5 291	3 167	7.74
Shoe 550 m	1.5 m							7 514	4 345	5 459	3 239	5 144	3 061	7.82
	0 (Ground)					*10 877	6 180	7 391	4 239	5 412	3 197	5 313	3 144	7.61
	-1.5 m					*10 311	6 198	7 377	4 227			5 900	3 470	7.60
	-3.0 m			*11 710	11 708	*8 907	6 322	*6 363	4 350			*6 138	4 274	6.01

	Load point height					Load	radius					At max, reach			
Conditions		1.5		3.0		4.5		6.0		7.5		At max. reach			
Conditions		ů		ů	@	ů		ů	©	ů		ů		meter	
Boom 5.68 m	6.0 m							*5 456	4 908			*5 478	4 001	6.81	
Arm 2.42 m	4.5 m					*7 028	*7 028	*5 933	4 759	*5 501	3 389	*5 500	3 350	7.55	
Counterweight 5 500 kg	3.0 m					*8 874	6 713	*6 722	4 536	5 541	3 306	5 085	3 037	7.94	
Shoe 550 m	1.5 m					*10 343	6 292	*7 473	4 326	5 433	3 210	4 935	2 925	8.02	
	0 (Ground)					*10 819	6 116	7 348	4 193	5 361	3 145	5 072	2 986	7.81	
	-1.5 m			*9 559	*9 559	*10 473	6 101	7 306	4 157			5 581	3 264	7.28	
	-3.0 m			*12 683	11 486	*9 325	6 201	*6 874	4 232			*6 302	3 950	6.35	
	-4.5 m					*6 614	6 475					*6 077	5 972	4.78	

Conditions	Load point height			At max, reach											
		1.5		3.0		4.5		6.0		7.5		At max. reach			
		ů		ů	©	ů		Ů		ů		ů		meter	
Boom 5.68 m	6.0 m							*4 956	*4 956			*4 047	3 550	7.39	
Arm 2.91 m	4.5 m					*6 328	*6 328	*5 499	4 819	*5 115	3 428	*3 993	3 035	8.08	
Counterweight 5 500 kg	3.0 m					*8 207	6 857	*6 349	4 586	*5 476	3 325	*4 103	2 776	8.44	
Shoe 550 m	1.5 m					*9 900	6 382	*7 201	4 355	5 438	3 211	*4 381	2 679	8.52	
	0 (Ground)			*4 514	*4 514	*10 713	6 131	7 353	4 193	5 342	3 125	4 626	2 723	8.32	
	-1.5 m	*5 426	*5 426	*8 804	*8 804	*10 659	6 064	7 274	4 124	5 311	3 096	5 019	2 940	7.83	
	-3.0 m	*9 865	*9 865	*13 855	11 330	*9 813	6 123	*7 275	4 156			*5 903	3 452	6.97	
	-4.5 m			*10 797	*10 797	*7 788	6 320					*5 899	4 752	5.59	



ZX240N-3 2-PIE	Rating over-front Rating			over-side or 3	Unit : kg									
		Load radius											,	
Conditions	Load point	1.5		3	.0	4	.5	6	.0	7	.5		At max. reach	•
	height	ů		Ů		ů		ů		Ů		Ů		meter
2-Piece Boom	9.0 m											*11 812	*11 812	2.63
Arm 2.03 m	7.5 m					*7 447	*7 447					*6 657	5 923	5.24
Counterweight 5 500 kg	6.0 m			*7 763	*7 763	*7 478	*7 478	*6 228	4 908			*5 472	4 152	6.55
Shoe 550 m	4.5 m			*11 000	*11 000	*8 607	7 451	*6 434	4 946			*4 994	3 434	7.32
	3.0 m			*12 738	*12 738	*10 244	7 294	*7 149	4 835	5 553	3 269	*4 840	3 102	7.72
	1.5 m			*14 952	12 699	*10 742	7 097	7 633	4 631	5 470	3 195	*4 920	2 995	7.80
	0 (Ground)	*10 932	*10 932	*16 886	11 918	*10 769	6 672	7 650	4 397	5 394	3 127	*5 250	3 080	7.59
	-1.5 m	*19 211	*19 211	*17 156	11 659	*10 999	6 450	7 475	4 241			*5 018	3 414	7.04
	-3.0 m	*28 532	*28 532	*15 619	11 732	*9 436	6 322					*5 136	4 431	5.84

						Load	radius						At max, reach		
Conditions	Load point	1.5		3.0		4.5		6.0		7.	.5	At max. reach			
	height	Ů		ů		ů		ů	©	ů		ů		meter	
2-Piece Boom	9.0 m			*9 199	*9 199							*8 694	*8 694	3.26	
Arm 2.42 m	7.5 m					*6 924	*6 924					*5 893	5 474	5.57	
Counterweight 5 500 kg	6.0 m					*7 051	*7 051	*5 841	5 009			*4 970	3 943	6.81	
Shoe 550 m	4.5 m			*11 636	*11 636	*8 046	7 451	*6 121	5 020	*4 747	3 329	*4 590	3 283	7.56	
	3.0 m			*13 119	12 769	*9 902	7 286	*6 812	4 884	*5 385	3 296	*4 480	2 965	7.94	
	1.5 m			*14 888	*12 722	*10 651	7 180	7 577	4 660	5 478	3 196	*4 576	2 850	8.02	
	0 (Ground)	*12 098	*12 098	*16 638	11 994	*10 665	6 702	7 598	4 393	5 364	3 093	*4 899	2 911	7.81	
	-1.5 m	*18 077	*18 077	*16 987	11 612	*10 814	6 420	7 429	4 192			*5 186	3 192	7.28	
	-3.0 m	*24 095	*24 095	*16 261	11 571	*9 981	6 215	*5 808	4 166			*4 640	3 907	6.32	

	Load point			At max, reach										
Conditions		1.5		3.0		4.5		6.0		7.5		At max. reach		
	height	ů		ů	@	ů		ů	©	ů		ů		meter
2-Piece Boom	9.0 m											*5 426	*5 426	4.37
Arm 2.91 m	7.5 m					*6 088	*6 088	*5 173	4 977			*4 432	*4 432	6.27
Counterweight 5 500 kg	6.0 m					*6 211	*6 211	*5 471	5 117			*4 096	3 492	7.39
Shoe 550 m	4.5 m			*8 241	*8 241	*7420	*7 420	*5 771	5 055	*4 840	3 448	*4 010	2 970	8.08
	3.0 m	*9 229	*9 229	*13 730	*12 849	*9 303	7 289	*6 426	4 924	*5 082	3 387	*4 004	2 707	8.44
	1.5 m	*8 028	*8 028	*14 401	12 654	*10 476	7 088	*7 388	4 802	*5 470	3 267	*4 080	2 608	8.52
	0 (Ground)	*10 862	*10 862	*16 108	12 242	*10 621	6 806	7 540	4 502	5 410	3 131	*4 335	2 652	8.32
	-1.5 m	*14 852	*14 852	*16 834	11 680	*10 696	6 459	7 489	4 240	5 309	3 040	*4 851	2 869	7.83
	-3.0 m	*18 815	*18 815	*16 888	11 551	*10 626	6 230	*7 064	4 126			*4 411	3 385	6.98
	-4.5 m	*20 439	*20 439	*12 454	11 592	*6 991	6 256					*6 594	5 996	4.64

ENGINE

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

HYDRAULIC SYSTEM

- Work mode selector
- Power boost
- Auto power lift
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing dampener valve

CAB

- CRES II (Center pillar reinforced structure) cab
- OPG top guard fitted Level I (ISO10262) compliant cab
- All-weather sound suppressed steel cab
- Equipped with reinforced, tinted (green color) glass windows
- 4 fluid-filled elastic mounts
- Front windows on upper, lower and left side can be opened
- Intermittent windshield wipers
- Front window washer
- Adjustable reclining seat with adjustable armrests
- Footrest
- Electric double horn
- AM-FM radio with digital clock
- Seat belt
- Drink holder
- Cigarette lighter
- Ashtray
- Storage box
- Glove compartment
- Fire extinguisher bracket
- Floor mat
- Short wrist control levers
- Pilot control shut-off lever
- Engine shut-off switch
- Auto control air conditioner
- Transparent roof with slide curtain
- Mechanical suspension seat with heater

MONITOR SYSTEM

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

LIGHTS

• 2 working lights

UPPER STRUCTURE

- Undercover
- 5 500 kg counterweight
- Fuel level float
- Electric fuel refilling pump with auto stop
- Rear view camera
- 150 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rear view mirror (right & left side)
- Swing parking brake

UNDERCARRIAGE

- Travel parking brake
- Travel motor covers
- 1 track guard (each side) and hydraulic track adjuster
- Bolt-on sprocket
- Upper and lower rollers
- Reinforced track links with pin seals
- 4 tie down hooks
- Track undercover

FRONT ATTACHMENTS

- HN bushing
- WC (tungsten-carbide) thermal spraying
- Reinforced resin thrust plate
- Flanged pin
- Casted bucket link A
- Centralized lubrication system
- Dirt seal on all bucket pins

MISCELLANEOUS

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

OPTIONAL EQUIPMENT

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

CAB

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

LIGHTS

- Additional cab roof front lights
- Additional cab roof rear lights

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 Rotating lamp · Additional boom light with cover

UNDERCARRIAGE

2 track guards

ATTACHMENTS

- Hammer and crusher piping Parts for hammer and crusher
- · 2 pump combined flow assist piping
- Additional pump (30 L/min)
- Pilot accumulator
- High mesh full flow filter with restriction indicator
- Welded bucket link A with welded hook

OTHERS

- Hose rupture valve
- Overload warning device
- Pre-cleaner • Biodegradable oil

These specifications are subject to change without notice.

Illustrations and photos show the standard models, and may or may not include optional equipment, accessories, and all standard equipment with some differences in colour and features. Before use, read and understand the Operator's Manual for proper operation.

Hitachi Construction Machinery

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