

"Earning more profits, keeping business up and achieving life value" are the eternal pursuit of customers, so the excavator used to realize the dream should be a productive, safe and reliable machine offering high profit, comfortable experience and cost-efficient and

Now a new generation of the "powerful and economical" ZAXIS-5 series hydraulic excavators bearing these expectations are being presented to you, and we're sure that their comprehensive specification and impressive performance will help you explore your wonderful future and make your dream come true.

## More Production with Less Fuel · Environmental-friendly Economical and efficient performance

- New eco-friendly engine with low fuel consumption and high power
- HITACHI HIOS III hydraulic system adopted to increase operating speed effectively ■ Fuel efficiency increased by 15% in the ECO mode
- Digging force increased by 10% with power boosting device
- Attachment support system for enhanced operation efficiency

## Durability and Reliability P6-7 Powerful and durable

- configura tion
- New engine with high reliability and durability
- Flat-bottom bu cket with excellent durability
- D-section fra me adopted for upperstructure Neutral engine start system

## Comfort and Safety · Convenient Operation P8-9

## Comfortable and safe operating space makes operation fun and enjoyable

- Ample operating space and excellent visibility
- Suspension seat as a standard feature
- X-beam frame with integrated welded structure Cab with center pillar reinforced structure

## Easy Maintenance P10-11

## User-friendly design for worry and labor saving

- Easy daily maintenance
- Easier cleaning around the engine
- SC painting protecting the surface from dirty

## Multi-function Monitor & e-Service ▶P12-13 Advanced machine management solution

■ Multi-function monitoring system

- e-Service Owner's site
- ConSite



## **Economical and efficient performance**

ZX360H-5A adopts new engine and HITACHI HIOS III hydraulic system, and precise EFI system significantly improves fuel efficiency, thus reducing the exhaust emission. The perfectly-matched HITACHI HIOS III hydraulic system brings quick operating speed, delivering efficient operating performance.





## New Eco-friendly Engine with Low Fuel Consumption and High Power

The genuine imported new engine with rated power of 190kW adopts high-pressure common rail electronic control fuel injection system and cooled EGR system, which delivers high power and low fuel consumption with its exhaust emission conforming to national stage III emission regulation.

- ■High-pressure common rail electronic control fuel injection system: It adopts high-pressure common rail and precisely controls the injection timing and injection quantity through electronic control for complete combustion of fuel, thus significantly improving fuel efficiency and reducing fuel consumption and emissions of exhausts such as black smalls at
- ■The cooled EGR system: It enables post-combustion of partial exhaust from the first combustion mixed with intake air, ensuring high power and reducing the emissions of air pollutants.

#### Power Mode

PWR mode producing more with less time and fuel-saving ECO mode are available. Compared with PWR mode of conventional ZX360H-5G, fuel efficiency in ECO mode of ZX360H-5A is increased by 15%\* (\* value obtained from test conducted by HITACHI).

## **Mighty Digging Force**

ZX360H-5A boasts superior bucket and arm digging force. If spurred by the power boosting device, the digging force will instantly increase by 10%. The operator can feel the evident difference during excavation work, making it particularly suitable for digging hard foundations.

## **Attachment Support System**

Valve switching and flow setting can be done by using the multifunction monitor, thus enhancing operation efficiency. In addition, the multi-function monitor displays operating hours of the breaker, which is convenient to determine replacement timing for hydraulic oil and filters.

## Swift Front Movements with HIOS III Hydraulic System

The new hydraulic system features a hydraulic boosting system and boom recirculation system based on the original hydraulic system, its efficient and precise hydraulic control enhances the work speed and enables quick and smooth combined operation. Whether for digging or loading operation, the machine can be operated easily.

\*HIOS: Human & Intelligent Operation System

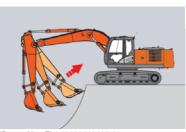
# Boom Recirculation System (Patented by HITACHI)



(Patent No.: ZL200480002169.5,

When the boom is lowered, hydraulic oil recirculates within the boom circuit assisted by boom weight. Therefore, the system delivers more pressure oil from the pump to the arm, thus significantly increasing arm speed during combined operation of arm and boom lowering. This feature will bring significant effect to the truck loading work.

# Hydraulic Boosting System (Patented by HITACHI)



(Patent No.: ZL200480010122.3, patent classification: invention patent)

The pressure oil which returns from the boom cylinder will be used to accelerate operation of the arm. This design significantly increases the arm roll-in speed.





## New Engine with High Reliability and Durability

The new 5A engine developed with the concept of high durability and high output features a rugged design. The reinforced core components and optimized fuel circuit as well as multiple stage fuel filtration system allow the engine to deliver good performance. The advanced cooling system ensures engine in good running condition, and expansion tank enhances the exhaust performance of cooling circuit. The material with high durability is adopted around the engine, which keeps well cooling performance for a long period













The arm of ZX360H-5A is equipped with square bars and the boom employs thick plates, and both have breaker piping bases as a standard feature. (The BE model features a BE type arm)

## 2 New HN Bushing (Patented by HITACHI)

New HN bushings are utilized at joint area of all front attachments for better lubrication and higher durability of front attachments.

(Patent No.: ZL03803085.3, patent classification: invention patent)

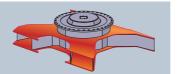
## 3 WC Thermal Spraying

WC (Tungsten-Carbide) thermal spray is applied on the contact surface of the connection between the arm and the bucket, delivering significant reduction in wear of the contact surface and rattling.

## 4 Welded Link A and Reinforced Link B (ZX360H-5A)

#### 5 Flat-Bottom Bucket with Excellent Durability

ZX360H-5A is equipped a 1.6m³ rock bucket as a standard feature (the BE model equipped with a 1.8m³ rock bucket as a standard feature) and the reinforced plates at bottom and side of bucket use wear plates with high performance, significantly enhancing the bucket durability.







## 6 X-beam Frame with Integrated Welded Structure

Strength and stability of undercarriage are improved for higher durability.

## Integrated Idler and Adjuster

The integrated design effectively prevents idlers from detaching. The sliding area of idler bearing is increased for higher operation stability.

# It can effectively protect lower

It can effectively protect lower rollers and prevent track links from detachment during steering.

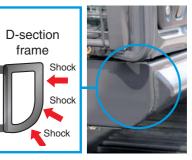
## Undercover

The undercover of ZX360H-5A as a standard feature offers enhanced protection for parts of undercarriage including pipes and hoses and the center joint.



## 9 Pre-cleaner

ZX360H-5A is equipped with a pre-cleaner as a standard feature which helps to extend the main air filter's service life and thus provides effective protection for the engine.



# 10 Rugged Platform Frame

The upperstructure with D-section frame is added with a damage prevention plate (ZX360H-5A)to withstand fierce external shocks.





## **More Comfort and Safety Features**

















## **Ample Operating Space and Excellent Visibility**

ZX360H-5A's cab offers plenty of legroom and excellent visibility.

The height and width of cab entry are increased for improving ease of entry, and the legroom is ample. Front glass window has a great area, and large area glasses are used at the right side and lower side of the cab door for better visibility. Monitor switch and air conditioner switch etc. are concentrated on the right console for easier operation. Ample air conditioner vents are located reasonably for smooth and uniform air circulation inside the cab.

## **Comfortable Suspension Seat**

A suspension seat is provided as a standard feature, thus alleviating operation fatigue. The seat can be freely reclined and slid forward and backward. New slide rails are adopted to achieve less rattling. The cab rests on fluid-filled elastic mounts that absorb shocks and vibration to enhance operator comfort. The new pressurized cab keeps dust and particles from entering.

## **Robust Cab**

The machine features a cab with center pillar reinforced structure. A neutral engine start system is employed, which eliminates the risk of misoperation at the time of the

operator getting on and off the machine to avoid possible dangers

















1 Fuel main filter 3 Pilot filter 2 Engine oil filter 4 Fuel pre-filter 6 Fuel tank water

5 Electric fuel pump 7 Expansion tank



Insect-proof net

Engine Parallel Layout

## **Easy Daily Maintenance**

Fuel main filter, fuel pre-filter, pilot filter, engine oil filter and electric fuel pump are concentrated inside the pump compartment. With the expansion tank and fully-sealed cooling circuit, there is no need to refill the coolant frequently. The fuel tank water drainage valve and engine oil discharge port are placed at convenient locations for daily drainage of water and engine oil. The fuel tank has a large cleaning port at the bottom, which effectively keeps fuel clean and simplifies inspection work. Plenty slip-resistant plates are positioned for safer maintenance.

## **Maintenance Period**

Engine oil and engine oil filter: 500 h · Hydraulic oil filter: 1,000 h

· Hydraulic oil: 5,000 h · Fuel filter: 1.000 h

## **Easier Cleaning Around the Engine**

The hydraulic oil cooler, radiator and intercooler are laid out in parallel for easier cleaning around the engine. The air condenser is openable to simplify cleaning. The insect-proof net of a lockable design is placed at the external side of the air condenser and fuel cooler, which is convenient for dismounting and mounting work. The radiator which is equipped with a cover for cleaning on the top can be cleaned by blowing in compressed air.

## **Easier Greasing for Adjuster**

Track adjuster greasing ports are repositioned for easier greasing, and well protected from muck build-up and blockage.

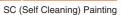
## SC (Self Cleaning) Painting

The hydrophilic coating makes it hard for any dirt to adhere to the surface; even dirt adherence does happen, the dirt can be easily removed.



Greasing point for track adjuste







Multi-function Monitor & e-Service

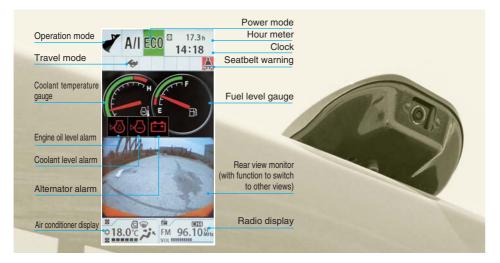
# **Multi-function Monitor & e-Service**

# **Advanced machine management solution**



## Multi-function monitoring system

The new multi-function monitoring system comprises a 7-inch high-resolution color display and a multi-function controller. Menu items can be selected by the multi-function controller on the control panel. The color LCD panel is easily visible even in the daylight. The brightness of the screen can be switched between daytime mode and nighttime mode using the '0' on the ten-key touchpad. A rear view camera always displays the view behind the machine.



## **Attachment Replacing Support System and Breaker Hour Meter**

The operator can change over valves, adjust circuit flow, and check settings from the multi-function monitor. In addition, an extra hour meter on the multi-function monitor displays operating hours of the breaker, suggesting appropriate replacement timing for oil and filters.





## **Multiple Languages Support**

The new ZAXIS is programmed with 32 languages, making it possible to work in the language appropriate to the region in question in the event that the machine is transported to other countries.

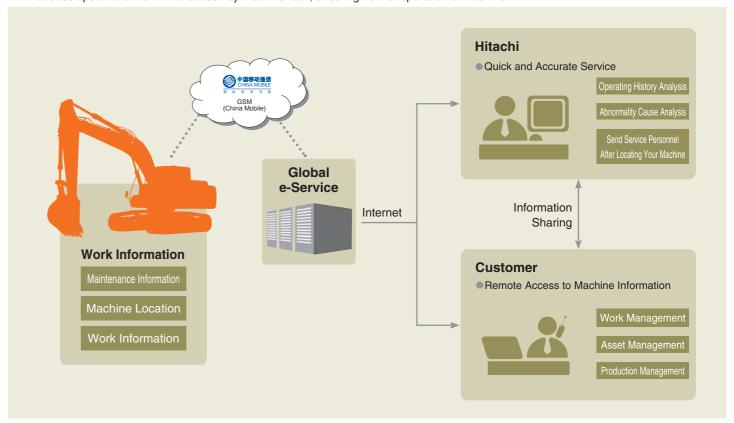
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esti	繁體中文	Nederlands	EG0 B 50.0h
1620	한국어	recomands	A/I A/S 💝
Polskii	DATE OF THE PARTY.	Русский	Language/EIII
slenska	Bahasa Indonesia	Português	1/3
	vatski Tiếng Việt		■ English
irvatsai		Suomi	
lovenščina		Ελληνικά	田 日本語
imba română	المناسبة	Svenska	Ⅲ Español
			III Italiano
Български език	اللغة الذار سية	Norsk	Ratiano
Lietuvių kalba	Türkçe	<b>简体</b> 中文	□ Français
			024.00 × 81.38



# **Remote Maintenance Management of Machine Information**

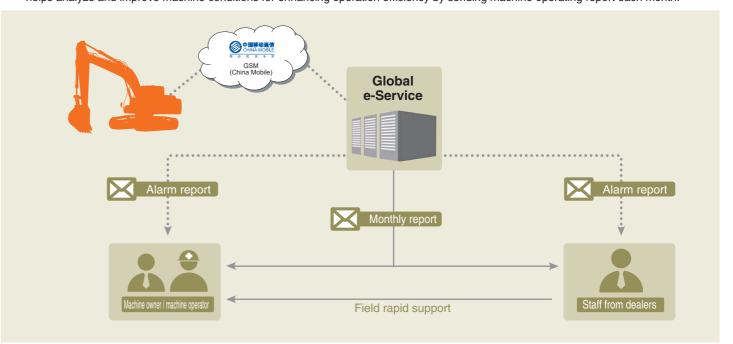
## e-Service Owner's Site

The onboard "e-Service Owner's site", assisted by a powerful information network, has led preventive servicing management to a new era of electronic information. HITACHI provides customers with shared machine information that is to be used as the judging factor for periodic inspection and maintenance. In case of machine abnormality, fault diagnosis can be made from alert information to find the cause. Also, technical personnel can be sent for field service timely. This contributes to quick and accurate service that reduces operational downtime caused by machine fault, ensuring normal operation of machine.



## ConSite

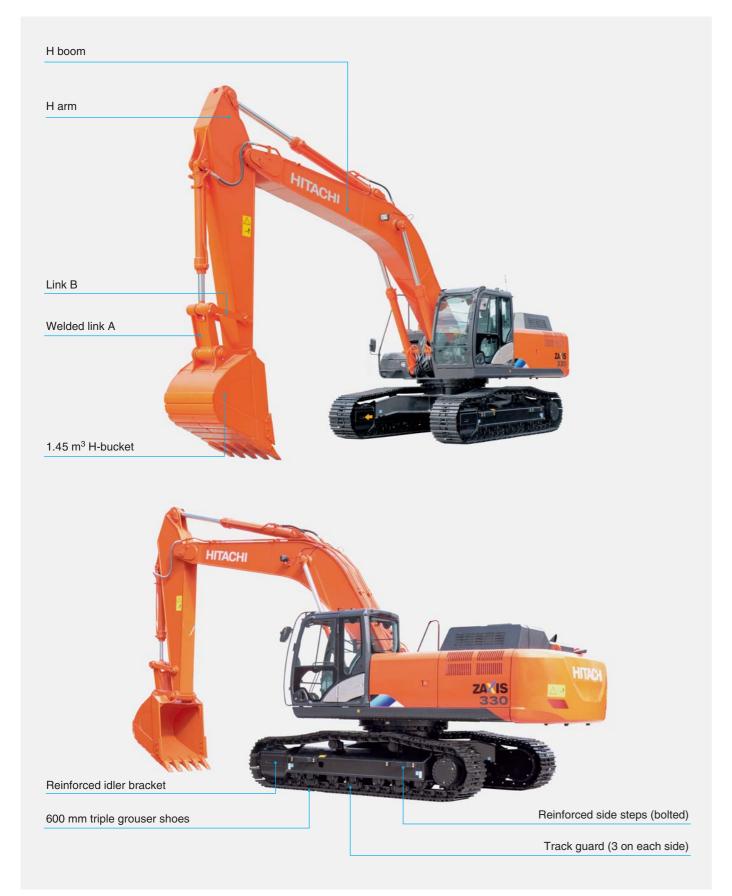
ConSite is a comprehensive response service system for construction site, which is developed based on Global e-Service platform. This system can monitor the operating state of machine remotely for 24 hours and send 'alarm report' and 'monthly report', which allows the customer to understand and control the daily operating state of machine timely, thus maximizing the utilization efficiency of machine. 'Alarm report' reduces the rate of failure occurrence and downtime by sending alarm notification at real time. 'Monthly report' helps analyze and improve machine conditions for enhancing operation efficiency by sending machine operating report each month.



# Technical specifications

# ZAXIS 梦想

# **ZAX**IS330



# ENGINE Model ISUZU GH-6HK1XKSA-01 Type 4-cycle water-cooled, electric-controlled direct injection Aspiration Turbocharged, intercooled No. of cylinders 6 Rated power 190 kW (258 PS) at 1,900 min<sup>-1</sup> (rpm) SAE J1349, net 190 kW (258 PS) at 1,900 min<sup>-1</sup> (rpm) Maximum torque 1,037 Nm (106 kgfm) at 1,500 min<sup>-1</sup> (rpm) Piston displacement 7.790 L Bore × stroke 115 mm × 125 mm Batteries 2 × 12 V/128 Ah

## **HYDRAULIC SYSTEM**

<b>U</b> v/di	raulia	Dum	nc
HVai	raulic	Pum	DS

Main pumps	2 variable displacement axial piston pumps
Maximum oil flow	2 × 288 L/min
Pilot pump	1 gear pump
Maximum oil flow	30.2 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/cm <sup>2</sup> )
Swing circuit	32.4 MPa (330 kgf/cm <sup>2</sup> )
Travel circuit	34.8 MPa (355 kgf/cm <sup>2</sup> )
Pilot circuit	3.9 MPa (40 kgf/cm <sup>2</sup> )
Power boost	38.0 MPa (388 kgf/cm <sup>2</sup> )

## **Hydraulic Cylinders**

	Quantity	Bore	Rod diameter
Boom	2	145 mm	100 mm
Arm	1	170 mm	115 mm
Bucket	1	140 mm	95 mm

## UPPERSTRUCTURE

## **Revolving Frame**

D-section frame 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 of a spring-set/hydraulic-released disc type.

#### Cab

Independent spacious cab, 1005 mm wide by 1675 mm high, conforming to ISO\* standards.

\*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
Track shoes	45
Track guides	3

#### **Travel Device**

Each track is driven by 2-speed axial piston motor. Parking brake is of a spring-set/hydraulic-released disc type. Automatic transmission system: High-Low.

Travel speeds ............... High: 0 to 5.0 km/h Low : 0 to 3.2 km/h

Maximum traction force ... 298 kN (30,400 kgf)

Gradeability ...... 70% (35 degree) continuous

SERVICE REFILL CAPACITIES	
Fuel tank	630 L
Engine coolant	35 L
Engine oil	41 L
Swing device	15.7 L
Travel device (each side)	9.2 L
Hydraulic system	340 L
Hydraulic oil tank	180 L

## **BUCKET AND ARM DIGGING FORCES**

Arm length	2.67 m	3.2 m
Maximum bucket diggingforce* ISO	246 kN (25,100 kgf)	246 kN (25,100 kgf)
Maximum bucket diggingforce* SAE: PCSA	214 kN (21,800 kgf)	214 kN (21,800 kgf)
Maximum arm crowdforce* ISO	222 kN (22,600 kgf)	185 kN (18,900 kgf)
Maximum arm crowdforce* SAE: PCSA	213 kN (21,700 kgf)	177 kN (18,100 kgf)

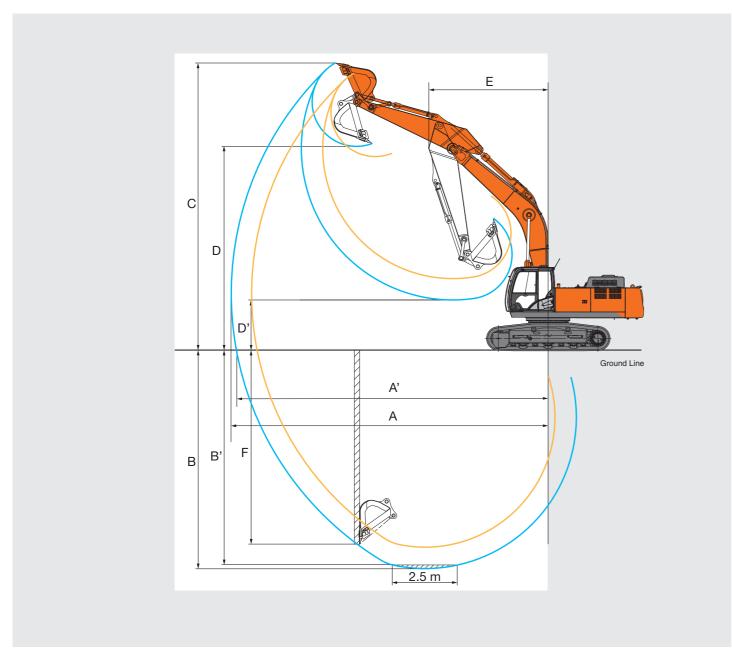
<sup>\*</sup> At power boost

## WEIGHTS AND GROUND PRESSURE

	Track shoe width	Arm length	Bucket capacity (ISO heaped)	Bucket weight	Counterweight	Operating weight	Ground pressure
ZX330-5A	600 mm	3.2 m	1.45 m <sup>3</sup> H type	1,500 kg	6,350 kg	32,700 kg	66 kPa (0.67 kgf/cm²)
ZX360H-5A	600 mm	3.2 m	1.60 m³ rock bucket	1,815 kg	6,900 kg	34,200 kg	69 kPa (0.70 kgf/cm²)
ZX360H-5A (BE)	600 mm	2.67 m	1.80 m³ rock bucket	1,821 kg	6,900 kg	34,200 kg	69 kPa (0.70 kgf/cm²)

## ZAXIS 梦想 实现您的 梦想

## WORKING RANGES

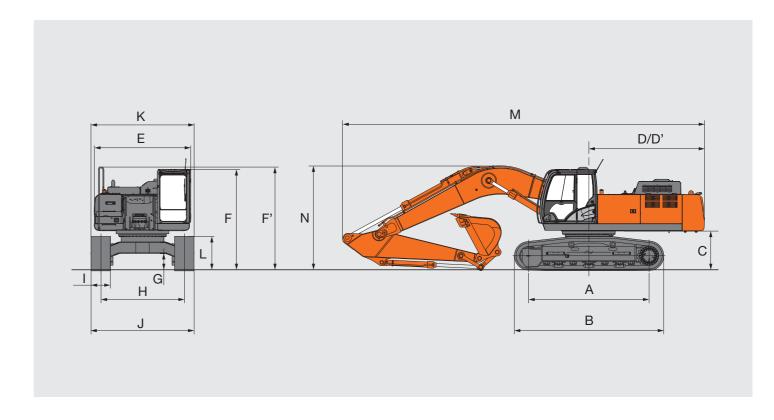


Unit:	mr
OHIL.	11111

Arm length	2.67 m	3.20 m
A Max. digging reach	10,570	11,100
A' Max. digging reach (on ground)	10,360	10,890
B Max. digging depth	6,840	7,380
B' Max. digging depth for 2.5 m level	6,640	7,210
C Max. cutting height	9,990	10,360
D Max. dumping height	6,940	7,240
D' Min. dumping height	3,210	2,680
E Min. swing radius	4,610	4,460
F Max. vertical wall digging depth	5,510	6,420

Excluding track shoe lug

## DIMENSIONS



Unit: mm

	ZX330-5A	ZX360H-5A	ZX360H-5A (BE)
A Distance between tumblers	3,730	3,730	3,730
B Undercarriage length	4,640	4,650	4,650
* C Counterweight clearance	1,160	1,160	1,160
D Rear-end swing radius	3,590	3,590	3,590
D' Rear-end length	3,590	3,590	3,590
E Overall width of upperstructure	2,990	3,070	3,070
F Overall height of cab	3,160	3,160	3,160
F' Overall height of upperstructure	3,270	3,270	3,270
* G Min. ground clearance	500	500	500
H Track gauge	2,590	2,590	2,590
I Track shoe width (triple grouser shoe)	600	600	600
J Undercarriage width	3,190	3,190	3,190
K Overall width	3,190	3,190	3,190
* L Track height with triple grouser shoes	1,070	1,070	1,070
M Overall length	11,220	11,220	11,350
N Overall height of boom	3,270	3,270	3,470

<sup>\*</sup> Excluding track shoe lug

# Equipment

● : Standard equipment ○ : Optional equipment — : N/A

Standard equipment     O. Optional equipment     — . N/A				
<b>ZX330</b> -5A	ZX360H-5A	ZX360H-5A (BE)		
•	•	•		
•	•	•		
•	•	•		
•	•	•		
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	ZX330-5A	ZX330-5A ZX360H-5A		

HYDRAULIC SYSTEM			
Auto power lift	•	•	•
Control valve with main relief valve	•	•	•
Full-flow filter	•	•	•
Pilot filter	•	•	•
Power boost	•	•	•
Suction filter	•	•	•
One extra port for control valve	•	•	•
Work mode selector	•	•	•

	<b>ZX330</b> -5A	ZX360H-5A	ZX360H-5A (BE)
CAB			
All-weather sound suppressed steel cab	•	•	•
AM-FM radio with 2 speakers	•	•	•
Ashtray	•	•	•
Auto control air conditioner	•	•	•
Storage	•	•	•
Cab (Center pillar reinforced structure)	•	•	•
Drink holder (hot & cool)	•	•	•
Electric double horn	•	•	•
Engine shut-off lever	•	•	•
Evacuation hammer	•	•	•
Fire extinguisher bracket	•	•	•
Floor mat	•	•	•
Footrest	•	•	•
Front window washer	•	•	•
Windows on front, left and top sides can be opened	•	•	•
Lower cab front guard	0	•	•
Glove compartment	•	•	•
Hot & cool box	•	•	•
Intermittent windshield wipers	•	•	•
Key cylinder light	•	•	•
LED room light with door courtesy	•	•	•
Pilot control shut-off lever	•	•	•
Rear tray	•	•	•
Seat belt	•	•	•
Rubber radio antenna	•	•	•
Mechanical suspension seat	•	•	•
Seat adjustment parts: backrest, armrest, height and angle, slide forward / backward	•	•	•
Short wrist control levers	•	•	•
4 fluid-filled elastic mounts	•	•	•
24 V cigarette lighter	•	•	•

	<b>ZX330</b> -5A	ZX360H-5A	ZX360H-5A (BE)
MONITOR SYSTEM			
Alarm buzzers: overheat, engine oil pressure	•	•	•
Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, air filter restriction etc.	•	•	•
Display items: Coolant temperature gauge, oil level gauge, hour meter, work mode, auto idle, power mode, rear monitoring, radio and air conditioner etc.	•	•	•
32 languages selection	•	•	•

LIGHTS			
2 working lights	•	•	•
Right boom light	0	0	0

UPPERSTRUCTURE			
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	•	•	•
6,350 kg counterweight	•	_	_
6,900 kg counterweight	_	•	•
2 × 128 Ah batteries	•	•	•

	<b>ZX330</b> -5A	ZX360H-5A	ZX360H-5A (BE)
UNDERCARRIAGE			
Bolt-mounted travel sprocket	•	•	•
Reinforced track links with pin seals	•	•	•
Reinforced lower flange	•	•	•
Reinforced idler bracket	•	•	•
Travel motor covers	•	•	•
Travel parking brake	•	•	•
9.0 mm reinforced undercover	0	•	•
3 track guides and 1 hydraulic track adjuster on each side	•	•	•
Upper and lower rollers	•	•	•
4 tie down hooks	•	•	•
600 mm triple grouser shoes	•	● Reinforced	<ul><li>Reinforced</li></ul>
Reinforced side step	•	•	•

FRONT ATTACHMENTS			
Centralized lubrication system	•	•	•
Dirt seal on all bucket pins	•	•	•
Flanged pin	•	•	•
New HN bushing	•	•	•
Reinforced resin thrust plate	•	•	•
Link B	•	<ul><li>Reinforced</li></ul>	● Reinforced
Welded link A	•	•	•
WC (tungsten-carbide) thermal spraying	•	•	•
3.2 m H-arm	•	•	_
2.67 m BE-arm	_	_	•
6.4 m H-boom	•	•	•
1.45 m³ H-bucket	•	0	_
1.6 m³ rock bucket	_	•	0
1.6 m³ wide rock bucket	_	0	0
1.62 m³ H-bucket	0	_	_
1.8 m³ rock bucket	_	_	•

MISCELLANEOUS			
Lockable fuel refilling cap	•	•	•
Lockable machine cover	•	•	•
Onboard information controller	•	•	•
Skid-resistant plates and handrails	•	•	•
Standard tool kit	•	•	•
Travel direction mark on track frame	•	•	•
e-Service Owner's Site	•	•	•
ConSite	•	•	•