ZAXIS-3 series

HYDRAULIC EXCAVATOR

- Engine Rated Power: 202 kW (271 HP)
- Operating Weight: ZX330-3: 31 600 kg / ZX330LC-3: 32 200 kg / ZX350H-3: 33 700 kg / ZX350LCH-3: 34 200 kg / ZX350K-3: 34 400 kg / ZX350LCK-3: 35 000 kg
- Backhoe Bucket: SAE, PCSA Heaped: 1.15 - 1.86 m³ / CECE Heaped: 1.00 - 1.60 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:**
  - 10 % higher production

- **Comfort:**
  - Excellent visibility
  - Enhanced controllability
  - Lower noise level

- **Reduced running costs:**
  - Lower fuel consumption per m³
  - Improved durability and reliability

- **New equipment:**
  - Rear view camera (optional)
  - Theft deterrent system

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 controllability and operator comfort

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Multi function monitor
- Maintenance support
- Attachment support system
- Rear view camera (optional)
- Theft deterrent system
- Fuel consumption monitoring

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Durability and reliability
- Strengthened undercarriage
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- Improved idler brackets
- Strengthened front attachment

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- Engine shut-off switch

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- The new engine complies with the Emission Regulations U.S EPA Tier 3, and EU Stage III A

- The advanced low noise design complies with the coming EU noise regulation 2000 / 14 / EC, STAGE II
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 10 % in comparison to previous model ZAXIS-1.

New E-mode
This 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 10 % compared to the previous P mode, while yielding similar production.

Increase in Swing Torque and Traction Force
Swing torque and traction force are increased significantly.

- Swing torque 10% UP
- Traction force 18% 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 pressurized oil is delivered from boom cylinder rod side to arm cylinder bottom side to increase flow rate giving 20 % higher arm roll-in speed. Excess pressurized 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, pressurized 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 %.

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 EGR cooler cools down exhaust gas to increase air concentration for complete combustion, reducing PM* (diesel plume).

OHC 4-Valve Engine
The new OHC -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.

Development concept of new engine

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 10 % compared to the previous P mode, while yielding similar production.

Boosted Productivity
New hydraulic system HIOS III and new OHC 4-valve diesel engine were developed for ZAXIS-3. These advanced technologies are at work to yield bigger output with higher fuel efficiency.
A New Standard in Operator Comfort

The operator's seat of the ZAXIS-3 series gives the operator an excellent view of the jobsite. On the widescreen color LCD monitor the operator can see machine conditions. Ample legroom, short stroke levers and a large seat ensure optimum working conditions for the operator during long hours.

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 (optional), what is behind the machine. Ample legroom, short stroke levers and a suspension seat (optional) 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 (optional). A theft deterrent system and multi-language 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.

Multi-language selection

The menu allows selection from 12 languages.

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.

Multi-function monitor

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.

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Multi-language selection

The menu allows selection from 12 languages.
A Solid Base for a Long Life

HITACHI’s technology is built on a wealth of experience and know-how from limestone sites and quarries around the world. The undercarriage of the ZAXIS 330 has become much stronger. Improved construction and enlarged box sections, a track undercover plate that protects the center joint and hydraulic hoses make this machine more durable.

### Strengthened undercarriage

Upper and lower rollers and upper roller brackets are increased in size for higher durability.
- Track links are thickened and reshaped for higher durability and rigidity.
- Three track guards are provided standard.
- This effectively protects track links from disengagement during steering.
- Side frame height is increased by approx. 13%.

### 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 45% (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 just behind the idler bracket, is thickened for higher durability, and reshaped by extending its stepped end to prevent the disengagement of track links.

### 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 reliable under heavy-duty operation.
Simplified Maintenance

The ZAXIS-3 series meet customer demands for simplified maintenance. Regular maintenance is the key for keeping equipment in top condition, which can help to prevent costly downtime. In addition, a regularly serviced machine has higher residual value. There are many service features to be found on the ZAXIS-3 series.

Extended oil and filter change intervals

<table>
<thead>
<tr>
<th>Front Pin Lubricating Intervals and Consumables Replacement</th>
<th>New ZAXIS 330</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lubricant Bucket</td>
<td>500 h</td>
</tr>
<tr>
<td>Boom Foot</td>
<td>500 h</td>
</tr>
<tr>
<td>Front</td>
<td>500 h</td>
</tr>
<tr>
<td>Consumables Engine Oil</td>
<td>500 h</td>
</tr>
<tr>
<td>Engine Oil Filter</td>
<td>500 h</td>
</tr>
<tr>
<td>Hydraulic Oil</td>
<td>5 000 h</td>
</tr>
<tr>
<td>Hydraulic Oil Filter</td>
<td>1 000 h</td>
</tr>
<tr>
<td>Fuel Filter</td>
<td>500 h</td>
</tr>
</tbody>
</table>

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.

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.

Conveniently located servicing points

Wide doors give access, from ground level, to the fuel filter, water separator and engine oil filter. A large handrail, steps and anti-slip 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.

The ZAXIS-3 series meet customer demands for simplified maintenance. Regular maintenance is the key for keeping equipment in top condition, which can help to prevent costly downtime. In addition, a regularly serviced machine has higher residual value. There are many service features to be found on the ZAXIS-3 series.
Safety Features

Ensuring the safety of the operator and other workers on the jobsite is an important concern for HITACHI. That is why the ZAXIS-3 series has a number of safety features including a new reinforced cab and shut-off mechanisms for engine and pilot controls.

The CRES II cab is designed to help with “just in case” protection for the operator. Safety in case of tipping is improved. The cab top, for instance, can withstand about 4.0 times conventional load when side load is applied to the cab top until its deformation reaches 200 mm.

Additional features

Other features include a retractable seat belt, 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 (OPG top guard, level II) guard is optionally available. For the cab windows there is a choice of laminated or tempered glass.

Environmental Features

HITACHI takes its responsibility when it comes to the environment. Our production facilities have ISO 14001 certification. The HITACHI machine is lead-free and has a low-noise design, therefore HITACHI customers get one of the most environmentally considerate hydraulic excavators available today.

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. Reduced 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. Second, a fan with curved blades reduces air resistance and air flow noise. Third, a time-tested muffler suppresses engine noise significantly.

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.
Parts & Service

Over the years, we have gained experience in one of the most competitive service markets in the world - Japan. Using our know-how in dealing directly with customers, we have created a worldwide support system that is highly capable.

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 fulfill 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.
**Base Machine for Doing a Wide Range of Jobs.**

Can be used with a wide range of hydraulic attachments. Options include large-capacity additional pump along with piping and components for the attachments.

**Heavy-Duty Version H-Series**

**ZAXIS 350H / ZAXIS 350LCH**

1. Reinforced thick steel front section. (H-boom / H-arm) Thicker steel arm end. Damage prevention plate and square bars.
2. Rock bucket and lateral wear plates.
3. Reinforced link B.
4. Front glass lower guard.
5. Reinforced idler bracket.
7. 400 kg counterweight.
8. Reinforced lower flange. (27 % Increase)
9. 6.0 mm thickness undercover.
10. 600 mm reinforced triple grouser shoe.
11. Full track guard.

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**Demolition Version K-Series**

**ZAXIS 350K / ZAXIS 350LCK**

1. Attachment basic piping.
2. Damage prevention plate.
3. Reinforced link B for demolition.
5. Twin wiper.
6. Reinforced idler bracket.
7. Front glass lower guard.
8. Track undercover.
9. 6.0 mm thickness undercover.
10. K-cab. (CRES II cab with overhead windows & guard)
11. Front screen of fuel cooler and air condenser.
12. 800 kg counterweight.
13. Reinforced lower flange. (27 % Increase)
14. 600 mm reinforced triple grouser shoe.
15. Electric grease gun.

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**OPTION**

- Accessories for breaker
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Front glass upper guard
- Pilot accumulator

**Notes:** Photo shown model equipped with optional accessories for breaker and crusher. Total weight of attachments to be mounted is from a standpoint of machine stability. For more details, contact your distributor.
### SPECIFICATIONS

#### ENGINE
- **Model**: Isuzu AH-6HK1X
- **Type**: 4-cylinder turbocharged, direct injection
- **Aspiration**: Turbocharged, intercooled
- **No. of cylinders**: 6
- **Rated power**: 202 kW (271 HP) at 1,500 rpm
- **Engine oil**: SAE 10W-40
- **Coolant**: Auto coolant
- **Injection system**: Electronic fuel injection

#### HYDRAULIC SYSTEM
- **Work mode selector**: Digging mode / Attachment mode
- **Engine speed sensing system**: Engine speed
- **Pilot controls**: Hitachi’s original shockless valve
- **Hydraulic Filters**: 3-element filters

#### HYDRAULIC CYLINDERS
- **High-strength piston rods and tubes**: Cylinder cushion mechanisms provided in boom and arm cylinders to absorb shock at stroke ends

#### UNDERCARRIAGE
- **Tractor-type undercarriage**: Welded track frame using selected materials
- **Track shoes**: Triple grousers made of induction-hardened rolled alloy
- **Reinforced**: Triple grousers

#### WEIGHTS AND GROUND PRESSURE

#### CONTROL
- **Pilot controls**: Hitachi’s original shockless valve
- **Implement levers with pedals**: 2

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**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, shoe 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: 10.7 m/min

**Operator’s Cab**
Independent spacious cab, 1,005 mm wide by 1,675 mm high, conforming to ISO 1496. 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.

**Numbers of Rollers and Shoes on Each Side**
Upper rollers: 2
Lower rollers: 7

**Swing 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 5.0 km/h, Low: 0 to 3.2 km/h

**Maximum traction force**: 298 kN (29 200 kgf)
**Grades/Worability**: 70 % (55 degree) continuous

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**WEIGHTS AND GROUND PRESSURE**

**ZX350LCK-3**
- **Equipped with**: 6.40 m boom, 3.20 m arm and 1.40 m bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple grouser</td>
<td>600 mm</td>
<td>32 200 kg</td>
<td>61 kPa (0.62 kgf/cm²)</td>
</tr>
<tr>
<td>Flat</td>
<td>600 mm</td>
<td>32 200 kg</td>
<td>61 kPa (0.62 kgf/cm²)</td>
</tr>
</tbody>
</table>

**ZX350H-2**
- **Equipped with**: 6.40 m H-boom, 3.20 m H-arm and 1.40 m H-bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced Triple grouser</td>
<td>600 mm</td>
<td>33 700 kg</td>
<td>66 kPa (0.69 kgf/cm²)</td>
</tr>
</tbody>
</table>

**ZX350LC-3**
- **Equipped with**: 6.40 m boom, 3.20 m arm and 1.40 m bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple grouser</td>
<td>600 mm</td>
<td>32 200 kg</td>
<td>61 kPa (0.62 kgf/cm²)</td>
</tr>
<tr>
<td>Flat</td>
<td>600 mm</td>
<td>32 200 kg</td>
<td>61 kPa (0.62 kgf/cm²)</td>
</tr>
</tbody>
</table>

**ZX350K-3**
- **Equipped with**: 6.40 m K-boom, 3.20 m K-arm and 1.40 m K-bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced Triple grouser</td>
<td>600 mm</td>
<td>34 400 kg</td>
<td>70 kPa (0.71 kgf/cm²)</td>
</tr>
</tbody>
</table>

**ZX350LCK-2**
- **Equipped with**: 6.40 m K-boom, 3.20 m K-arm and 1.40 m K-bucket (SAE, PCSA heaped).

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced Triple grouser</td>
<td>600 mm</td>
<td>35 600 kg</td>
<td>66 kPa (0.69 kgf/cm²)</td>
</tr>
</tbody>
</table>

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**WEIGHT REFILL CAPACITIES**

| Fuel tank | 630.0 L |
| Engine coolant | 32.0 L |
| Engine oil | 41.0 L |
| Swing device | 170.0 L |
| Travel device (each side) | 9.2 L |
| Hydraulic system | 374.0 L |
| Hydraulic oil tank | 180.0 L |
### SPECIFICATIONS

#### BACKHOE ATTACHMENTS

Boom and arms are of welded, box-section design. 6.40 m boom, and 2.67 m, 3.20 m, and 4.00 m arms are available. Bucket is of welded steel plate construction. Side clearance adjustment mechanism provided on the bucket joint bracket.

#### Buckets

<table>
<thead>
<tr>
<th>Capacity</th>
<th>Width</th>
<th>No. of teeth</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE, PCSA heaped</td>
<td>CECE heaped</td>
<td>Without side cutters</td>
<td>With side cutters</td>
</tr>
<tr>
<td>Bucket digging force</td>
<td>SAE</td>
<td>PCSA</td>
<td>ZK330-LH</td>
</tr>
<tr>
<td>1.15 m³</td>
<td>1.00 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
<tr>
<td>1.40 m³</td>
<td>1.20 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
<tr>
<td>1.82 m³</td>
<td>1.40 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
<tr>
<td>1.40 m³</td>
<td>1.20 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
<tr>
<td>1.60 m³</td>
<td>1.20 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
<tr>
<td>1.40 m³</td>
<td>1.20 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
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<td>1.20 m³</td>
<td>1.560 mm</td>
<td>1.230 mm</td>
</tr>
</tbody>
</table>

1) Super V teeth type bucket — Suitable for materials with density of >1 200 kg/m³ or less
2) Level-pin-type bucket — Suitable for materials with density of >1 500 kg/m³ or less
3) Reinforced bucket — Heavy-duty service
4) Ripper bucket — Not applicable

### WORKING RANGES

<table>
<thead>
<tr>
<th>Arm length</th>
<th>ZK330-LC/H</th>
<th>ZK350LCH/H</th>
<th>ZK350LC/H</th>
<th>ZK350LCK/H</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.67 m</td>
<td>10 570</td>
<td>10 570</td>
<td>10 570</td>
<td>10 570</td>
</tr>
<tr>
<td>3.20 m</td>
<td>11 000</td>
<td>11 000</td>
<td>11 000</td>
<td>11 000</td>
</tr>
<tr>
<td>4.00 m</td>
<td>12 000</td>
<td>12 000</td>
<td>12 000</td>
<td>12 000</td>
</tr>
</tbody>
</table>

#### DIMENSIONS

<table>
<thead>
<tr>
<th>Unit: mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZX330-LC/H</td>
</tr>
<tr>
<td>A. Distance between tumbler tubes</td>
</tr>
<tr>
<td>B. Undercarriage length</td>
</tr>
<tr>
<td>C. Counterweight clearance</td>
</tr>
<tr>
<td>D. Rear-end swing radius</td>
</tr>
<tr>
<td>E. Overall length</td>
</tr>
<tr>
<td>F. Overall height of cab</td>
</tr>
<tr>
<td>L. Overall length</td>
</tr>
<tr>
<td>M. Overall height of boom</td>
</tr>
<tr>
<td>N. Track width</td>
</tr>
</tbody>
</table>

#### Bucket digging force

- SAE: 169 kN (18 000 kgf)
- PCSA: 176 kN (19 200 kgf)
- ISO: 151 kN (16 900 kgf)
# Lifting Capacities

1. Ratings are based on SAE J0977.
2. Lifting capacity of the ZX500 Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The lead point is a hook (not standard equipment) located on the back of the bucket.
4. Hydradec load limited by hydraulic capacity.
5. m 6 m Ground.

### ZX330-3

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load range</th>
<th>Load radius</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shoe 600 mm</td>
<td>4.0 m</td>
<td>10.55</td>
<td>9.07</td>
</tr>
<tr>
<td>Bucket 1.40 m</td>
<td>4.0 m</td>
<td>13.85</td>
<td>12.40</td>
</tr>
<tr>
<td>Counterweight</td>
<td>6 800 kg</td>
<td>4.0 m</td>
<td>6.88</td>
</tr>
<tr>
<td>Shoe 600 mm</td>
<td>6.0 m</td>
<td>9.05</td>
<td>8.09</td>
</tr>
<tr>
<td>Bucket 1.40 m</td>
<td>6.0 m</td>
<td>13.85</td>
<td>12.40</td>
</tr>
<tr>
<td>Counterweight</td>
<td>6 800 kg</td>
<td>6.0 m</td>
<td>6.88</td>
</tr>
</tbody>
</table>

### ZX350H-3

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load range</th>
<th>Load radius</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm 3.20 m</td>
<td>4.0 m</td>
<td>10.55</td>
<td>9.07</td>
</tr>
<tr>
<td>Arm 3.20 m</td>
<td>6.0 m</td>
<td>9.05</td>
<td>8.09</td>
</tr>
</tbody>
</table>

# Rating over-side or 360 degrees

<table>
<thead>
<tr>
<th>Load radius</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 m</td>
<td>10.55</td>
</tr>
<tr>
<td>6.0 m</td>
<td>9.05</td>
</tr>
</tbody>
</table>

# Rating over-front

<table>
<thead>
<tr>
<th>Load radius</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>4.0 m</td>
<td>10.55</td>
</tr>
<tr>
<td>6.0 m</td>
<td>9.05</td>
</tr>
</tbody>
</table>
EQUIPMENT

STANDARD EQUIPMENT

<table>
<thead>
<tr>
<th>CAB</th>
<th>MONITOR SYSTEM</th>
</tr>
</thead>
<tbody>
<tr>
<td>- CRES II (Center pillar reinforced structure) cab</td>
<td>- Display of meters: water temperature, hour, fuel rate, clock</td>
</tr>
<tr>
<td>- OPG top guard fitted Level I (ISO10262) compliant cab</td>
<td>- Other displays: work mode, auto-idle, glow, rearview monitor (when optional rear view camera is equipped), operating conditions, etc</td>
</tr>
<tr>
<td>- All-weather sound suppressed steel cab</td>
<td>- Alarms: overheat, engine warning, engine oil pressure, alternator, minimum fuel level, hydraulic filter restriction, air filter restriction, work mode, overload, etc</td>
</tr>
<tr>
<td>- Equipped with reinforced, tinted (green color) glass windows</td>
<td>- Alarm buzzers: overheat, engine oil pressure, overload</td>
</tr>
<tr>
<td>- 4 fluid-filled elastic mounts</td>
<td></td>
</tr>
<tr>
<td>- Upper front window can be opened</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UNDERCARRIAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Travel parking brake</td>
</tr>
<tr>
<td>- Travel motor covers</td>
</tr>
<tr>
<td>- 3 track guard (each side) and hydraulic track adjuster</td>
</tr>
<tr>
<td>- Bolt-on sprocket</td>
</tr>
<tr>
<td>- Upper rollers</td>
</tr>
<tr>
<td>- Reinforced track links with pin seals</td>
</tr>
<tr>
<td>- 4 tie down hooks</td>
</tr>
<tr>
<td>- 600 mm triple grouser shoes</td>
</tr>
<tr>
<td>- Reinforced side step</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIGHTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>- 2 working lights</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>UPPERSTRUCTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Undercover</td>
</tr>
<tr>
<td>- 6 800 kg counterweight</td>
</tr>
<tr>
<td>- Fuel level float</td>
</tr>
<tr>
<td>- Hydraulic oil level gauge</td>
</tr>
<tr>
<td>- Tool box</td>
</tr>
<tr>
<td>- Utility space</td>
</tr>
<tr>
<td>- Rear view mirror (right &amp; left side)</td>
</tr>
<tr>
<td>- Swing parking brake</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MISCELLANEOUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Standard tool kit</td>
</tr>
<tr>
<td>- Lockable machine covers</td>
</tr>
<tr>
<td>- Lockable fuel refilling cap</td>
</tr>
<tr>
<td>- Skid-resistant tapes, plates and handrails</td>
</tr>
<tr>
<td>- Travel direction mark on track frame</td>
</tr>
<tr>
<td>- Onboard information controller</td>
</tr>
<tr>
<td>- Theft deterrent system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FRONT ATTACHMENTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>- LH bracketing</td>
</tr>
<tr>
<td>- WC (wet cast) thermal spraying</td>
</tr>
<tr>
<td>- Reinforced resin thrust plate</td>
</tr>
<tr>
<td>- Flanged pin</td>
</tr>
<tr>
<td>- Casted bucket link A</td>
</tr>
<tr>
<td>- Centralized lubrication system</td>
</tr>
<tr>
<td>- Dirt seal on all bucket pins</td>
</tr>
<tr>
<td>- Bucket clearance adjust mechanism</td>
</tr>
<tr>
<td>- 3.20 m arm</td>
</tr>
<tr>
<td>- 1.40 m (SAE, PCSA heaped) bucket</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OPTIONAL EQUIPMENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Suspension seat</td>
</tr>
<tr>
<td>- Hose rupture valves</td>
</tr>
<tr>
<td>- Electric fuel refilling pump with auto stop</td>
</tr>
<tr>
<td>- Swing motion alarm device with lamps</td>
</tr>
<tr>
<td>- Travel motion alarm device</td>
</tr>
<tr>
<td>- Rear view camera</td>
</tr>
<tr>
<td>- Additional pump</td>
</tr>
<tr>
<td>- KAB 515 suspension seat</td>
</tr>
<tr>
<td>- Transparent roof</td>
</tr>
<tr>
<td>- Pre-cleaner</td>
</tr>
<tr>
<td>- Tropical cover</td>
</tr>
<tr>
<td>- Attachment basic piping</td>
</tr>
<tr>
<td>- Accessories for breaker</td>
</tr>
<tr>
<td>- Accessories for breaker &amp; crusher</td>
</tr>
<tr>
<td>- Accessories for 2 spear selector</td>
</tr>
</tbody>
</table>

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**STANDARD EQUIPMENT**

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**ENGINE**

- M6 mode control
- E mode control
- 50 A alternator
- Dry-type air filter with evacuator valve (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- 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
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter
- Swing damper valve

**GUIDELINES**

- Theft deterrent system
- Onboard information controller
- Travel direction mark on track frame

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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.