Engine Rated Power: 295 kW (400 PS)

Operating Weight
- ZAXIS600/ZAXIS600LC: 56 000—58 600 kg
- ZAXIS650H/ZAXIS650LCH: 57 600—58 400 kg

Backhoe Bucket
- SAE, PCSA Heaped: 1.5—3.5 m³
- CECE Heaped: 1.3—3.1 m³
**Futuristic Performance**

**High Productivity**
A truly high performance machine
- **ZAXIS600:** 12% more production in P mode (compared to EX550-5).
- **295 kW (400 PS) powerful engine.**
- **H/P mode newly used in this model.**
- **2.8 m³ [Heavy-duty version] / 2.7 m³ [Standard version]** Large capacity bucket.
- **ZAXIS650H:** 6% [Bucket] / 15% [Arm] more digging force (compared to EX600H-5).
- **Less fuel consumption during light-load operation from auto acceleration system.**

**Lower Running Costs**
Stronger Structural component design
- **Durable bucket joint.**
- **Reinforced side steps.**

**Lower Maintenance Costs**
Reduced maintenance time and expense
- **Convenient maintenance doors are provided in the engine cover for quick and easy inspections.**
- **Auto-grease lubricator and electric grease gun. (Option)**

**CRES (Center pillar Reinforced Structure) Cab:**
- **ZAXIS600 series**
- **Rugged pressurized cab with integrated headguard: ZAXIS650H series**
- **Low noise and vibration in cab.**
- **Boom mode selector helps to control shock and vibration.**
- **Auto-control air conditioner.**

**Notes:**
1. Never leave the front attachment in a raised position.
   Make sure the front attachment is lowered to the ground before leaving the equipment unattended. (Some of the pictures in this catalog show an un-manned machine with attachments in an operating position. These were taken for demonstration purposes only and the actions shown are not recommended under normal operating conditions.)
2. Caution plates on the machine will vary according to country.
3. Photos include optional equipment.
ZAXIS uses advanced technology to reduce costs while working faster.

**Large Displacement Engine Creates Power for High Productivity**
- **Engine rated power:** 295 kW (400 PS) on EX550-5
- **Engine displacement:** 15.68 L
- **Swing power:** 167 kN (17 000 kgf)

**Excavating Power for Tough Job Site**
A powerful engine and efficient hydraulic system team up to boost maximum excavating power. It has the power to take on tough job site.
- **Bucket:**
  - 282 kW (370 hp) on EX550-5
  - 288 kW (400 hp) on EX600H-5
- **Arm:**
  - 216 kW (220 hp) on EX550-5
  - 218 kW (220 hp) on EX600H-5
- **Rock bucket:**
  - 250 kN (25 500 kgf) on EX550-5
  - 282 kN (29 500 kgf) on EX600H-5

**Large Bucket Capacity Boosts Productivity**
The ZAXIS600 has a bucket capacity that contributes to its productivity. It has been designed to resist wear. The rock bucket has lateral-type wear plates that are easy to replace.
- **Backhoe bucket:**
  - 2.7 m³
- **Rock bucket:**
  - 2.8 m³

**Travel Power and Speed You Can Depend on**
- **Travel power:** 417 kN (42 530 kgf)
- **Travel speed:** 4.7 km

**Work Modes for Increased Performance**
The four work modes have been enhanced over prior models.
- General purpose mode
- Trench digging mode
- Attachment mode
- Precision mode

**12% increase**
in production (in P mode) 
(compared to EX550a)
Comfort Increased to Reduce Operator Fatigue
A reshaped X-beam track frame, D-type frame and rigid cab bed work together with silicone-filled rubber cushions to keep noise and vibration lower, contributing to less operator fatigue.

Auto Control Air Conditioner
Simply set the temperature and forget about it. Ducts are positioned to promote even air flow throughout the cab.

Safety
CRES (Center pillar Reinforced Structure) Cab
The cab is designed with "just in case" protection for the operator. The rigid cab design reduces the potential for injury in the event of an accident.

Boom Mode Selector
Helps to reduce shaking and jerking of body during scraping operations.

ON Comfortable mode
There is little lifting or pulling of the body so there is less vibration and shock.

OFF Powerful mode
Much lifting and pulling of the body so there is more vibration and shock.

ZAXIS
Minimum Effort Maximum Efficiency
The operator's compartment is designed for both comfort and operating efficiency.

CRES Cab
The cab is designed with "just in case" protection for the operator. The rigid cab design reduces the potential for injury in the event of an accident.

* The CRES cab meets OPG top guard level 2 (ISO).
Functional & Durable
Extensive steps have been taken to support basic performance and overall durability.

Lower running costs

Durable Bucket Joint
A new design is adopted to bucket joints. Bucket pins are solid and large, and lubricated through bosses for more durability. The use of bucket bushes reduces pin wear.

- Bucket bushes (For 21 and 28 version)
- Boss lubrication to bucket pins

Rugged Undercarriage for Withstanding Tough Jobs
A reshaped box design with X-beams helps disperse stress. This design boosts the overall rigidity of the entire undercarriage.

Reinforced Side Steps

Travel Device Resists Damage
A compact travel device reduces the potential for damage.

Engine Maintenance Doors
This small maintenance doors are added to the full engine cover. Just open the small maintenance door for easy, quick inspection and maintenance. No need to open the entire engine cover.

Handy Utility Space

Notes:
The photo shows a cover opened at the time of the inspection. Be sure to close a cover at the time of the operation.
ZAXIS650H

2.8 m³ rock bucket (Lateral-type wear plates)
The easy-to-replace lateral-type wear plates are standard equipment.

Square bars (5 units)
Helps protect both end surfaces of the area under the arm.

Pressurized cab with integrated overhead guard
An ISO-standard FOPS large-size cab is used. It has an integrated overhead guard to help provide protection from falling objects. An optional guard is available for the front windshield to make the cab OPG level (ISO) compliant.

Upper/lower cab front guard (Option)

H-front (Reinforced front)
7.6 m H-boom / 3.4 m H-arm
Thicker steel plates and extra reinforcement help provide reliability during heavy duty operations.

4.5 mm undercover for upper structure

Pressurized cab with integrated overhead guard (Meets ISO FOPS standards)
Reinforced side step

H-track guard (Dual type - 1 Unit/each side)
Track guard (Single type - 2 Unit/each side)

Base machine for a wide range of jobs.

ZAXIS650 (LC) H
7.6m Boom/3.4m Arm/2.8m³ Rock Bucket

ZAXIS650 (LC) H
6.6m BE Boom/2.9m BE Arm/3.3m³ Rock Bucket

ZAXIS600 (LC)
7.6m Boom/3.0m Arm/2.7m (2.8m³) Bucket

ZAXIS600 (LC)
7.6m Boom/3.9m Arm/2.5m³ Bucket

ZAXIS600 (LC)
7.6m Boom/5.2m Long Arm/2.0m³ Bucket

ZAXIS600LC
9.2m Boom/5.2m Long Arm/1.5m³ Bucket

ZAXIS600 (LC)
6.6m BE Boom/2.9m BE Arm/3.5m³ Bucket

ZAXIS600 (LC)
6.6m BE Boom/2.9m Short Arm/2.9m³ Bucket

Note: Data in ( ) shown those on the LC version
**SPECIFICATIONS**

**ENGINE**
- Model: Isuzu 6W91TX
- Type: Four-cycle water-cooled, direct injection
- Airflow: Turbocharged
- Number of cylinders: 6
- Rated power: 295 kW (400 PS) at 1800 rpm
- DIN 6271, net: 295 kW (400 PS) at 1800 rpm
- Inlet air pressure: 81 kPa (127 000 lb)
- Power at 100 rpm: 1540 N.m (157 kgf.m, 1140 lbf.ft)
- Piston displacement: 15.681 L (957 in3)
- Batteries: 2 x 12 V, 170 AH

**HYDRAULIC SYSTEM**
- Work mode selector
- General purpose mode / Trench digging mode
- Engine speed sensing system
- Main pumps: 2 variable displacement axial piston pumps
- Maximum oil flow: 30.2 L/min (10 gpm)
- Max oil pressure: 950 MPa (13 700 psi)

**WEIGHTS AND GROUND PRESSURE**

**ZAXIS600:**
- Equipped with 7.6 m (24'11”) boom, 3.5 m (11’6”) arm, and 2.7 m³ (3.2 yd³) SAE, PCSA heaped bucket.
- Weight: 34,900 kg (77,000 lb)
- Ground pressure: 59 kPa (870 lb/ft²)
- Operating weight: 56,000 kg (123 400 lb)
- Maximum oil pressure: 770 MPa (11 300 psi)
- Piston displacement: 15.681 L (957 in3)
- Operator’s Cab: Independent, spacious, cab, 1000 mm (40”) wide by 1675 mm (66”) high, conforming to ISO Standards.

**ZAXIS650H:**
- Equipped with 7.6 m (24'11”) boom, 3.4 m (11’2”) H-arm, and 2.9 m³ (3.79 yd³) SAE, PCSA heaped bucket.
- Weight: 35,300 kg (77,800 lb)
- Ground pressure: 54 kPa (820 lb/ft²)
- Operating weight: 58,500 kg (128 600 lb)
- Maximum oil pressure: 810 MPa (11 900 psi)
- Piston displacement: 17.97 L (1090 in3)
- Operator’s Cab: Independent, spacious, cab, 1000 mm (40”) wide by 1675 mm (66”) high, conforming to ISO Standards.

**UNDERCARRIAGE**
- Tractor-type undercarriage. Welded track frame, using carefully selected materials for tough jobs.
- Side frame bolted to frame, using heat-treated connecting pins with dirt seals.
- Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

**Buckets**
- Capacities: SAE, PCSA heaped
- Without side cutters: 1.5 m³ (1.86 yd³)
- With side cutters: 1.9 m³ (2.31 yd³)
- Maximum cutting depth: 2.9 m (9'6'')
- Grading ability...

**CONTROLS**
- Pilot controls: Hitachi’s original shockless valve and quick warm-up system.
- Hydraulic warm-up control system for hydraulic oil.
- Implement levers...
- Travel levers with pedals...

**SERVICE REFILL CAPACITIES**
- Fuel tank...
- Engine oil...
- Oil pressure...
- Swing mechanism...
- Travel device...
- Hydraulic system...
- Hydraulic tank...

**BACKHOE ATTACHMENTS**
- Boom and arms of all-welded, box-section design. Bucket is all-welded, high-strength steel structure.
- Side clearance adjust mechanism provided in boom and arm cylinders to absorb shock at stroke ends.

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**HYDRAULIC SYSTEM**

- **Type of Hydraulic System:**
  - 4-cycle water-cooled, direct injection
  - Turbocharged
- **Number of Cylinders:** 6
- **Rated Power:**
  - 295 kW (400 PS) at 1800 rpm
- **Inlet Air Pressure:** 81 kPa (127 000 lb)
- **Maximum Oil Flow:** 30.2 L/min (10 gpm)
- **Max Oil Pressure:** 950 MPa (13 700 psi)

**WEIGHTS AND GROUND PRESSURE**

**ZAXIS600:**
- **Weight:** 34,900 kg (77,000 lb)
- **Ground Pressure:** 59 kPa (870 lb/ft²)
- **Operating Weight:** 56,700 kg (123 200 lb)
- **Max Oil Pressure:** 770 MPa (11 300 psi)
- **Piston Displacement:** 15.681 L (957 in3)
- **Operator’s Cab:** Independent, spacious, cab, 1000 mm (40”) wide by 1675 mm (66”) high, conforming to ISO Standards.

**ZAXIS650H:**
- **Weight:** 35,300 kg (77,800 lb)
- **Ground Pressure:** 54 kPa (820 lb/ft²)
- **Operating Weight:** 58,500 kg (128 600 lb)
- **Max Oil Pressure:** 810 MPa (11 900 psi)
- **Piston Displacement:** 17.97 L (1090 in3)
- **Operator’s Cab:** Independent, spacious, cab, 1000 mm (40”) wide by 1675 mm (66”) high, conforming to ISO Standards.

**UNDERCARRIAGE**
- **Tractor-type Undercarriage:**
  - Welded track frame, using carefully selected materials for tough jobs.
  - Side frame bolted to frame, using heat-treated connecting pins with dirt seals.
  - Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

**Buckets**
- **Capacity:** SAE, PCSA heaped
- **Without Side Cutters:**
  - 1.5 m³ (1.86 yd³)
- **With Side Cutters:**
  - 1.9 m³ (2.31 yd³)
- **Maximum Cutting Depth:** 2.9 m (9'6'')
- **Grading Ability:**...

**CONTROLS**
- **Type:** Pilot controls
- **Hitachi’s Original Shockless Valve and Quick Warm-up System:**
  - Built-in the suction line and full-flow filters in the return line and swing travel motor drain lines.
- **Implement Levers:**
- **Travel Levers with Pedals:**

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**SERVICE REFILL CAPACITIES**
- **Fuel Tank:** 740.0 liters (195.5 gallons)
- **Engine Oil:** 98.0 liters (25.9 gallons)
- **Oil Pressure:**...
- **Swing Mechanism (Each Side):** 10.5 liters (2.8 gallons)
- **Travel Device (Each Side):** 14.0 liters (3.7 gallons)
- **Hydraulic System:** 618.0 liters (163.3 gallons)
- **Hydraulic Tank:** 310.0 liters (81.9 gallons)

**BACKHOE ATTACHMENTS**
- **Boom and Arms:** All-welded, box-section design. Bucket is all-welded, high-strength steel structure.
- **Side Clearance Adjust Mechanism:** Provided in boom and arm cylinders to absorb shock at stroke ends.

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**ZAXIS650H/ZAXIS650LCH:**
- **Weight:** Equipped with 7.6 m (24'11") H-boom, 3.4 m (11’2") H-arm, and 2.9 m³ (3.79 yd³) SAE, PCSA heaped bucket.
- **Weight:**...
- **Ground Pressure:**...

**ZAXIS600/ZAXIS600LC with BE-front:**
- **Weight:** Equipped with 6.6 m (21'8") BE boom, 2.9 m (9'6") BE arm, and 3.3 m³ (4.3 yd³) SAE, PCSA heaped bucket.
- **Weight:**...
- **Ground Pressure:**...
### ZAXIS600

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### METRIC MEASURE

#### ZAXIS 6000LC

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STANDARD EQUIPMENT

ENGINE
- H/P mode control
- E mode control
- 50 A alternator
- Dry-type air double filters with evacuator valve (with air cleaner restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Radiator and oil cooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Auto-idle system
- Auto acceleration system

HYDRAULIC SYSTEM
- Work mode selector
- Engine speed sensing system
- E-P control system
- Power boost
- Boom mode selector system
- Quick warm-up system for pilot circuit
- Shockless valve in pilot circuit
- Control valve with main relief valve
- Extra port for control valve
- Suction filter
- Full-flow filter
- Pilot filter

CAB
CRES (Center pillar Reinforced Structure) cab
- OPG top guard fitted level I (ISO) compliant cab
- All-weather sound-suppressed steel cab

OPTIONAL EQUIPMENT

- Hose rupture valves
- Electric fuel refilling pump
- Swing motion alarm device with lamps
- OPG top and front guard fitted level II (ISO) compliant cab
- Travel motion alarm device
- 2 cab lights (only CRES cab)
- Auto-grease lubricator
- Electric grease gun
- Ladder
- Attachment basic piping
- Accessories for breaker
- Right sidewalk
- Accessories for breaker & crusher
- Accessories for 2 speed selector
- Front glass lower guard
- Front glass upper guard
- Full track guard
- Counterweight removal device
- Double grouser Shoe
- 750 mm (30") triple grouser shoe
- 900 mm (35") triple grouser shoe

LIGHTS
- 2 working lights

MONITOR SYSTEM
- Meters:
  - Hourmeter and trip-meter, engine coolant temperature gauge and fuel gauge
  - Warning lamps:
    - Alternator charge, engine oil pressure, engine overhear, air filter restriction and minimum fuel level
  - Pilot lamps:
    - Engine preheat, engine oil level, engine coolant level, auto-idle, auto acceleration, digging mode, trench digging mode, attachment mode and precision (or heavy lift) mode

MISCELLANEOUS
- Standard tool kit
- Lockable machine covers
- Lockable fuel filling cap
- Skid-resistant tapes, plates, handrails and sidewalk
- Travel direction mark on track frame
- Onboard ICX

ZAXIS650H / ZAXIS650LCH (Heavy-duty version)
- 7.6 m (24'11") H-boom and 3.4 m (11'2") H-arm
- Dynamic preventive plate and square bars
- 2.8 m³ (3.7 yd³ : SAE, PCSA heaped) rock bucket (with dual type side shrouds)
- Headguard integrated cab with 2 cab lights
- 4.5 mm (0.18") thickness undercover
- H-track guard (dual type)
- Reinforced side steps (bolt mounted)