HYDRAULIC EXCAVATOR

- **Engine Rated Power**: ZX400R-3: 202 kW (271 HP)  
  ZX470R-3 / ZX470LCR-3 / ZX520LCR-3: 260 kW (349 HP)  
  ZX670LCR-3: 345 kW (463 HP)  
  ZX870R-3 / ZX870LCR-3: 397 kW (532 HP)
- **Operating Weight**: ZX400R-3: 36,700 kg  
  ZX470R-3 / ZX470LCR-3: 47,900 kg  
  ZX520LCR-3: 48,900 kg  
  ZX670LCR-3: 88,400 kg  
  ZX870R-3 / ZX870LCR-3: 85,500 kg
- **Backhoe Bucket**: SAE, PCSA Heaped: 1.5 - 4.3 m³  
  CECE Heaped: 1.3 - 3.8 m³
Tougher and More Powerful in Quarry

Hitachi's technology is built on a wealth of experience and knowhow from limestone sites and quarries around the world. The quarry specification concept continues to evolve in answer to increasingly demanding operational tasks.

Specially Designed Front Attachment for Quarry
- Stronger Boom and Arm - Additional Welding Increases the Strength and Durability
- Arm-End Boss and Arm Cylinder Mounting Bracket are Reinforced
- Specially Designed Bucket with Wear-Resisting Steel

Tougher Undercarriage for Rocky Ground Condition
- Reinforced Travel Motor Cover and Guard - Reinforced Idler Part of Side Frame
- Track Under Cover (Optional) - Full Track Guard Provided Standard

Enhanced Safety & Operator Comfort
- H/R Cab - Comfort-Designed Operator Seat - Fluid-Filled Elastic Mounts
- Pressurized Cab - Multi-Language, Multi-Function Monitor
- Rear View Camera - Attachment Support System

Simplified Maintenance
- Parallel Arrangement of Radiator and Oil Cooler
- Dual Main Fuel Filters Provided Standard - Automatic Lubrication
- Extended Hydraulic Oil Filter Change Intervals

Applicable for Breaker Operation (Optional)
- Double Accumulator - Ergonomic Breaker Pedal Layout
- Breaker Hour Meter - Shatterproof Windshield and Window

Clean engine complies with the emission regulations US EPA Tier 3 and EU Stage IIIA.

Low noise design complies with the EU noise regulation 2000/14/EC, Stage II.
High Durability Means Long-Lasting Product Value

Strengthened undercarriage for higher durability even in heavy-duty applications.

Specially Designed Front Attachment for Quarry

Stronger Boom and Arm
Higher durability with special reinforcement and stress-relieved welding.

Additional Welding Increases the Strength and Durability
The boom-end rigidity through the use of a thick single plate and increased boom end bushing thickness also contribute increasing durability.

Arm-End Boss and Arm Cylinder Mounting Bracket are Reinforced
Reinforced arm-end boss and arm cylinder mounting bracket provides higher durability. Protection plate with 5-square bars also enhances reliability in heavy duty operation.

Tougher Undercarriage for Rocky Ground Condition

Reinforced Travel Motor Cover and Guard
The reinforced travel motor cover with square bars and reinforced travel guard protect travel motor from damage by stone projectiles.

Reinforced Idler Part of Side Frame
Rigid structure of side frame withstands frequent shock caused by rock hitting.

Track Under Cover (Optional)
Track under cover protects travel pipings and hoses.

Specially Designed Bucket with Wear-Resisting Steel
The R-bucket is made of wear resistant steel, and reshaped with side shrouds, cutting-edge shrouds, and large bucket teeth for enhanced durability. Easily replaceable lateral wear plates help reduce downtime. The limestone bucket has similar features except number of side shrouds and size of tooth.
Enhanced Safety & Operator Comfort

An array of safety devices for enhanced safety. The spacious cab is ergonomically designed with excellent visibility to reduce operator fatigue and burden.

H/R Cab

The H/R cab utilizes the reinforced front window and FOPS* at the roof for protection against falling objects. The front window, made of straight-laminated glass, is fixed to shut out dirt and debris. The cab provided with a full guard satisfies the OPG** Level II cab requirements stipulated by ISO.

*Falling Object Protective Structure
**Operator Protective Guards

Comfort-Designed Operator Seat

The operator seat is ergonomically designed for long-hour pleasant operation. The seatback is widened to hold the operator securely, and the headrest is reshaped. The operator seat is strengthened to reduce vibration and shocks, and increase durability.

Fluid-Filled Elastic Mounts

The cab rests on fluid-filled elastic mounts that absorb shocks and vibration to enhance operator comfort.

Pressurized Cab

The pressurized cab shuts out debris and dirt.

Multi-Language, Multi Function Monitor

A large multi-language, multi function monitor is well positioned for easy reading.

Rear View Camera (Optional)

The large color LCD monitor, teamed up with the rear view camera (optional) on the counterweight, gives the operator unobstructed rearward view. This system enhances safety during swing and reversing.

Attachment Support System

The work mode can be selected from the multi function monitor inside the cab. Pump flow in the selected work mode can be monitored.

Parallel Arrangement of Radiator and Oil Cooler

The radiator and oil cooler are laid out in parallel arrangement for easy demounting, instead of conventional in-line arrangement. This new arrangement significantly helps facilitate cleaning around the engine.

Dual Main Fuel Filters Provided Standard

In addition to a prefilter, dual main fuel filters are provided standard to reduce clogging of the fuel line to the engine. (ZX400R-:*One main filter)

Extended Hydraulic Oil Filter Change Intervals

Hydraulic oil filter change intervals are extended from 500 hours (Conventional model) to 1000 hours to help reduce running costs.

Automatic Lubrication

The front attachment is automatically lubricated, except for bucket lubricating points at the top of arm.

Ergonomic breaker pedal layout

Double Accumulator

Double accumulator protects hydraulic pump from pulse beat from breaker.

Breaker Hour Meter

Breaker hour meter is convenient for managing filter and hydraulic oil replacement in accordance with breaker operation hour.

Applicable for Breaker Operation (Optional)

Shatterproof windshield and window

Laminated film on the front windshield and right side window to prevent shattering.
**ENGINE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Model</td>
<td>Isuzu AH-6HKX</td>
</tr>
<tr>
<td>Type</td>
<td>4-cylinder water-cooled, direct injection</td>
</tr>
<tr>
<td>Aspiration</td>
<td>Turbocharged, intercooled</td>
</tr>
<tr>
<td>No. of cylinders</td>
<td>6</td>
</tr>
<tr>
<td>Rated power</td>
<td>ISO 9249, net...</td>
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<td>EEC 80/1269, net...</td>
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<tr>
<td></td>
<td>SAE J1349, net...</td>
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<tr>
<td>Bore and stroke</td>
<td>115 mm x 125 mm</td>
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<tr>
<td>Batteries</td>
<td>2 x 12 V / 126 Ah</td>
</tr>
</tbody>
</table>

**HYDRAULIC SYSTEM**

- Work mode selector
- Digging mode / Attachment mode
- Main pumps: 2 variable displacement axial piston pumps
- Maximum oil flow: 2 x 288 L/min
- Pilot pump: 1 gear pump
- Max. oil flow: 32 L/min

**Hydraulic Motors**

- Travel: 2 variable displacement axial piston motors
- Swing: 1 axial piston motor

**Relief Valve Settings**

- Implement circuit: 34.3 MPa (350 kgf/cm²)
- Swing circuit: 34.3 MPa (350 kgf/cm²)
- Travel circuit: 3.9 MPa (40 kgf/cm²)
- Pilot circuit: 3.9 MPa (40 kgf/cm²)
- Power boost: 36.3 MPa (370 kgf/cm²)

**Hydraulic Cylinders**

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

**UPPER STRUCTURE**

**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: 10.7 min⁻¹ (rpm)

**Operator’s Cab**

- Independent spacious cab, 1 005 mm wide by 1 795 mm high, conforming to ISO* Standards. (OPG top guard fitted Level II (ISO 10362) compliant cab) Reinforced glass windows on 4 sides for visibility. Rocking seat with armrests; adjustable with or without control levers.

* International Standardization Organization

**UNDERCARRIAGE**

- Tracks
  - Tractor-type undercarrage. 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.

- Numbers of Rollers and Shoes on Each Side
  - Upper rollers: 2
  - Lower rollers: 8
  - Track shoes: 46
  - Full 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 5.0 km/h
  - Low: 0 to 2.9 km/h
  - Maximum traction force: 322 kN (32 800 kgf)
  - Gradeability: 70% (35 degree) continuous

**WEIGHTS AND GROUND PRESSURE**

- Equipped with 6.4 m R-boom, 3.2 m R-arm, and 1.5 m³ R-bucket (SAE, PCSA heaped)

<table>
<thead>
<tr>
<th>Shoe type</th>
<th>Shoe width</th>
<th>Operating weight</th>
<th>Ground pressure</th>
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</thead>
<tbody>
<tr>
<td>Triple grousers</td>
<td>160 mm</td>
<td>38 700 kg</td>
<td>76 kPa (0.79 kgf/cm²)</td>
</tr>
</tbody>
</table>

**BACKHOE ATTACHMENTS**

- Boom and arms are of all-welded, box-section design. A number of boom and arms are available. Bucket is of all-welded, high-strength steel structure. The ZX400R- is a heavy duty type and equipped with a reinforced R-boom and R-arm.

<table>
<thead>
<tr>
<th>Backhoe Buckets</th>
<th>Capacity</th>
<th>Width</th>
<th>No. of teeth</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>SAE, PCSA heaped</td>
<td>With side shrouds</td>
<td>Without side shrouds</td>
<td>6</td>
<td>1 720 kg</td>
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</tbody>
</table>

- R-bucket

**CONTROLS**

- Pilot controls: Hach’s original shockless valve.
- Implement levers: 2
- Travel levers with pedals: 2

**SERVICE REFILL CAPACITIES**

- Fuel tank: 630.0 liters
- Engine coolant: 32.0 liters
- Engine oil: 41.0 liters
- Swing device (each side): 17.2 liters
- Travel device (each side): 9.2 liters
- Hydraulic system: 374.0 liters
- Hydraulic oil tank: 298.0 liters

**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.
ZAXIS 400R

DIMENSIONS

WORKING RANGES

<table>
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<tr>
<th>Arm length</th>
<th>ZAX400R-a</th>
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</thead>
<tbody>
<tr>
<td>6.4 m R-boom</td>
<td>3.2 m R-arm</td>
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</table>

| Max. digging reach | 11,090 |
| Max. digging depth | 10,860 |
| Max. digging depth B level | 7,310 |
| Max. cutting height | 7,140 |
| Max. dumping height | 10,320 |
| Min. swing radius | 4,470 |
| Max. vertical wall | 6,650 |
| Bucket digging force ISO | 238 KN (24,100 kgf) |
| Bucket digging force SAE : PCSA | 200 KN (20,400 kgf) |
| Arm crowd force ISO | 180 KN (18,400 kgf) |
| Arm crowd force SAE : PCSA | 172 KN (17,600 kgf) |
| Equipped bucket SAE : PCSA | 1,5 m³ |

units: mm

Notes:
1. Ratings are based on SAE J1097.
2. 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 a hook (not standard equipment) located on the back of the bucket.
4. Indicates load limited by hydraulic capacity.

Metric measure

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</tr>
<tr>
<td>7 m</td>
<td>1,000 kg</td>
</tr>
<tr>
<td>8 m</td>
<td>1,000 kg</td>
</tr>
<tr>
<td>9 m</td>
<td>1,000 kg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Load point height</th>
<th>2 m</th>
<th>3 m</th>
<th>4 m</th>
<th>5 m</th>
<th>6 m</th>
<th>7 m</th>
<th>8 m</th>
<th>9 m</th>
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<tbody>
<tr>
<td>A: Load radius</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>B: Load point height</td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C: Lifting capacity</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
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<table>
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<tr>
<th>Conditions</th>
<th>2 m</th>
<th>3 m</th>
<th>4 m</th>
<th>5 m</th>
<th>6 m</th>
<th>7 m</th>
<th>8 m</th>
<th>9 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>At max. reach</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating over-side or 360 degrees</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rating over-front</td>
<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**SPECIFICATIONS**

**ZAXIS 470R / 470LCR / 520LCR**

### ENGINE
- **Model**: Isuzu AH-6WSKYXYS-01
- **Type**: 4-cylinder water-cooled, direct injection
- **Aspiration**: Turbocharged
- **No. of cylinders**: 6
- **Radiator power**:
  - ISO 9249, net: (Without Fan) 260 kW (349 HP) at 1800 min⁻¹ (rpm)
  - EEC 80/1260, net: (Without Fan) 260 kW (349 HP) at 1800 min⁻¹ (rpm)
- **SAE J1349, net**: (Without Fan) 260 kW (349 HP) at 1800 min⁻¹ (rpm)
- **Maximum torque**: 1580 Nm (161 kgf) at 1500 min⁻¹ (rpm)
- **Piston displacement**: 1568 cm³
- **Bore and stroke**: 147 mm x 154 mm
- **Battery voltage**: 2 x 12 V / 170 Ah

### HYDRAULIC SYSTEM
- **Work mode selector**: General purpose mode / Attachment mode
- **Engine speed sensing system**:
  - Main pumps: 2 variable displacement axial piston pumps
  - Pilot pump: 1 gear pump
  - Max. oil flow: 30 L/min

### Hydraulic Motors
- **Travel**: 2 axial piston motors with parking brake
- **Swing**: 2 axial piston motors

### Relief Valve Settings
- **Impliment circuit**: 31.9 MPa (325 kgf/cm²)
- **Swing circuit**: 27.0 MPa (276 kgf/cm²)
- **Travel circuit**: 34.3 MPa (350 kgf/cm²)
- **Power boost**: 34.3 MPa (350 kgf/cm²)

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

### Dimensions
- **Quantity**: 2
- **Type**: Boom arm, side shroud, track shoe, side shroud, R-boom, R-arm
- **Boom**: 2, 170 mm, 510 mm
- **Arm**: 1, 160 mm, 630 mm
- **Bucket**: 1, 170 mm, 530 mm

### Hydraulic Filters
- **Hydraulic circuitry**: 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. Implement levers: 2
- **Travel levers with pedals**: 2

### UNDERFRAME

### Swing Device
- **Swing speed**: 9.0 min⁻¹

### Operator's Cab
- **Indepedent spacious cab**: 1005 mm wide by 1795 mm high. Operator's Cab conforms to ISO* Standards. (OPG top guard, FTRD Level II (ISO 10262) compliant cab) Reinforced glass windows on 4 sides for visibility. Rocking seat with armrests; adjustable with or without control levers.
- **International Standardization Organization**:
  - *1 Internal gear and pinion gear are immersed in lubricant.

### UNDERCARRIAGE
- **Tracks**: Tractor-type undercarriage. Welded track frame using selected materials.
- **Sprockets with floating seals**:
  - 7.0 m R-boom
  - 3.4 m R-arm
  - 1.9 m R-boom
- **Tractor-type undercarriage**:
  - Welded sturdy box construction, using heavy-gauge steel plates for strength and durability
  - Internal gear. Internal gear and pinion gear are immersed in lubricant.

### Swivel Device
- **Swing device (each side)**: 2...3
- **Swing speed**:
  - 415 kN (42 300 kgf)
  - Low: 0 to 2.9 km/h
  - High: 0 to 5.5 km/h

### Work Mode Selector
- **General purpose mode / Attachment mode**:
  - H/P mode:
    - 260 kW (349 HP) at 1800 min⁻¹ (rpm)
    - 322 kN (32 800 kgf)
    - 70 % (35 degree) continuous
  - 260 kW (349 HP) at 1800 min⁻¹ (rpm)
    - 322 kN (32 800 kgf)
    - 70 % (35 degree) continuous

### Swivel Device
- **Swing device (each side)**: 2...3
- **Swing speed**:
  - 4...5
- **Swing speed**:
  - 322 kN (32 800 kgf)
  - Low: 0 to 2.9 km/h
  - High: 0 to 5.5 km/h

### BACKHOE ATTACHMENTS
- **Boom and arms**: All-welded, box-section design. A number of boom and arms are available. Bucket is of all-welded, high-strength steel structure. The ZX470R-3 / ZX470LCR-3 / ZX520LCR-3 are a heavy-duty type and equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

### Backhoe Buckets
- **ZX470R-3 / ZX470LCR-3**:
  - **Capacity**: 2.9 m³ / 3.4 m³
  - **Weight**: 2.9 m³ R-boom / 3.4 m³ R-arm
  - **Recommendation**:
    - Heavy-duty service: Not applicable

### WEIGHTS AND GROUND PRESSURE
- **ZX470R-3**:
  - **Load**: 7.0 m R-boom, 3.4 m R-arm, and 1.9 m³ R-bucket (SAE, PCSA heaped)
  - **Shoe type**: 34.3 MPa (350 kgf/cm²)
  - **Operational weight**: 413 kgf (365 kgf/cm²)

### SERVICE REFILL CAPACITIES
- **FUEL TANK**: 725.0 liters
- **Engine coolant**: 55.0 liters
- **Engine oil**: 57.0 liters
- **Swing device (each side)**: 8.5 liters
- **Travel device (each side)**: 11.0 liters
- **Hydraulic system**: 560.0 liters
- **Hydraulic oil tank**: 330.0 liters

### SERVICE REFILL CAPACITIES
- **Backhoe Buckets**:
  - **ZX470R-3 / ZX470LCR-3**:
    - **Capacity**: 2.9 m³ / 3.4 m³
    - **Weight**: 2.9 m³ R-boom / 3.4 m³ R-arm
    - **Recommendation**: 1.9 m³ / 2.3 m³ / 2.5 m³
    - **Weight**: 2.9 m³ R-boom

### SERVICE REFILL CAPACITIES
- **ZX520LCR-3**:
  - **Load**: 7.0 m R-boom, 3.4 m R-arm, and 1.9 m³ R-bucket (SAE, PCSA heaped)
  - **Shoe type**: 34.3 MPa (350 kgf/cm²)
  - **Operational weight**: 413 kgf (365 kgf/cm²)
**SPECIFICATIONS / LIFTING CAPACITIES**

**ZAXIS 470R / 470LCR**

**DIMENSIONS**

- **A** Distance between tumblers
- **B** Undercarriage length
- **C** Counterweight clearance
- **D** Rear-end swing radius
- **E** Rear-end length
- **F** Overall width of upperstructure
- **G** Min. ground clearance
- **H** Track gauge: Extended/Retracted
- **I** Track shoe width
- **J** Undercarriage width: Extended/Retracted
- **K** Overall width
- **L** Overall length
- **M** Overall height of boom
- **N** Track height

**WORKING RANGES**

<table>
<thead>
<tr>
<th>Arm length</th>
<th>ZX470R</th>
<th>ZX470LCR</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.0 m R-boom</td>
<td>6.3 m BER-boom</td>
<td>7.0 m R-boom</td>
</tr>
<tr>
<td>5.4 m R-boom</td>
<td>4.8 m BER-boom</td>
<td>5.4 m R-boom</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conditions</th>
<th>Load point height</th>
<th>Load radius</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 m</td>
<td>4 m</td>
<td>6 m</td>
<td>8 m</td>
</tr>
</tbody>
</table>

**ZX470LCR**

- **A**: Load radius
- **B**: Load point height
- **C**: Lifting capacity

**Notes:**

1. Loadings are based on SAE J1097.
2. 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 a hook (not standard equipment) located on the back of the bucket.
4. Tipping load limited by hydraulic capacity.

**ZAXIS 470R+**

- **A**: Load radius
- **B**: Load point height
- **C**: Lifting capacity

**Notes:**

1. Loadings are based on SAE J1097.
2. 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 a hook (not standard equipment) located on the back of the bucket.
4. Tipping load limited by hydraulic capacity.
ZAXIS 520LCR

DIMENSIONS

| A | Distance between tumblers | 4 250 |
| B | Undercarriage length | 6 300 |
| C | Counterweight clearance | 1 425 |
| D | Rear-end swing radius | 3 645 |
| D' | Rear-end length | 3 560 |
| E | Overall width of upperstructure | 3 590 |
| F | Overall height of cab | 3 520 |
| G | Min. ground clearance | 810 |
| H | Track gauge: Extended/Retracted | 2 920 / 2 420 |
| I | Track shoe width | 0 620 |
| J | Undercarriage width: Extended/Retracted | 3 520 / 3 020 |
| K | Overall width | 3 860 |
| L | Overall length | 11 860 |
| M | Overall height of boom | 3 500 |
| N | Track height | 1 290 |

ZAXIS 520LCR-13 10

<table>
<thead>
<tr>
<th>ZAXIS 520LCR-3 13</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Load radius</td>
</tr>
<tr>
<td>B</td>
<td>Load point height</td>
</tr>
<tr>
<td>C</td>
<td>Lifting capacity</td>
</tr>
</tbody>
</table>

WORKING RANGES

<table>
<thead>
<tr>
<th>Arm length</th>
<th>6.3 m R-boom</th>
<th>7.0 m R-boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 m B-Boom</td>
<td>2.3 m B-Boom</td>
<td>2.3 m B-Boom</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Arm length</th>
<th>6.3 m B-Boom</th>
<th>7.0 m B-Boom</th>
<th>7.0 m R-boom</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.5 m B-arm</td>
<td>2.3 m B-arm</td>
<td>2.3 m B-arm</td>
<td>2.4 m R-arm</td>
</tr>
</tbody>
</table>

| A | Max. digging reach | 10 810 | 10 790 | 11 330 | 12 060 |
| --- | --- | --- | --- | --- |
| B | Max. digging reach on ground | 10 190 | 10 460 | 11 030 | 11 850 |
| C | Max. digging depth | 5 720 | 6 050 | 7 130 | 7 650 |
| D | Max. digging depth (at load) | 5 540 | 5 800 | 6 020 | 7 550 |
| E | Max. cutting height | 10 730 | 10 870 | 10 240 | 11 130 |
| F | Max. dumping height | 7 390 | 7 520 | 7 170 | 7 730 |
| G | Min. swing radius | 4 090 | 3 930 | 5 020 | 4 840 |
| H | Min. vertical wall | 4 180 | 4 570 | 4 200 | 7 030 |

<table>
<thead>
<tr>
<th>Bucket digging force (ISO)</th>
<th>287 kn</th>
<th>287 kn</th>
<th>287 kn</th>
<th>287 kn</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket digging force SAE - PCSA</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
</tr>
<tr>
<td>Arm crowd force ISO</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
</tr>
<tr>
<td>Arm crowd force SAE - PCSA</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
<td>287 kn</td>
</tr>
<tr>
<td>Equipped bucket SAE - PCSA</td>
<td>3 510</td>
<td>2 640</td>
<td>2 640</td>
<td>2 640</td>
</tr>
</tbody>
</table>

Excluding track shoe lug | 2.5 m B-arm | 2.5 m B-arm | 2.3 m R-arm | 2.1 m R-arm |
**SPECIFICATIONS**

**ZAXIS 670LCR**

### ENGINE
- Model: Isuzu AH-6WGXYSA-02
- Type: 4-cylinder water-cooled, direct injection
- Aspiration: Turbocharged
- No. of cylinders: 6
- Rated power
  - ISO 9249, net: 345 kW (463 HP) at 1,800 rpm
  - SAE J1349, net: 345 kW (463 HP) at 1,800 rpm
- EEC 80/1269, net: 345 kW (463 HP) at 1,800 rpm

### HYDRAULIC SYSTEM
- **Work mode selector**
  - General purpose mode / Attachment mode
- **Engine speed sensing system**
- **Power boost**
- **Pilot circuit**
- **Travel circuit**
- **Swing circuit**
- **Implement circuit**

### CONTROLS
- **Pilot controls**
  - Hitachi’s original shock less valve and quick warm-up system built in the pilot circuit.
- **Implement levers**
- **Pedals**
- **Implement controls**
  - 2

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

### WEIGHTS AND GROUND PRESSURE
- **ZX670LCR**
  - Equipped with 7.8 m R-boom, 3.6 m R-arm and 2.9 m³ R-bucket (SAE, PCSA heaped).
- **ZX670LCR-2**
  - Equipped with 6.8 m BER-boom, 2.9 m BER-arm and 3.3 m³ BER-bucket (SAE, PCSA heaped).

### UNDERCARRIAGE
- **Tracks**

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

### 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/swing motor drain lines.

### CONTROLS
- **Pilot controls**
  - Hitachi’s original shock less valve and quick warm-up system built in the pilot circuit.

### BACKHOE ATTACHMENTS
- **Boom**
  - Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high strength steel structure. The ZX670LCR-2 is a heavy-duty type and can be equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

### SERVICE REFILL CAPACITIES
- **Fuel tanks**
- **Engine coolant**
- **Engine oil**
- **Pump drive**
- **Swing device (each side)**
- **Travel device (each side)**
- **Hydraulic system**
- **Hydraulic oil tank**

---

**Dimensions**

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Boom 690 mm</th>
<th>Arm 190 mm</th>
<th>Bucket 190 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rod</td>
<td>2 x 12 V / 170 Ah</td>
<td>130 mm</td>
<td>130 mm</td>
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</tbody>
</table>

---

**Service Refill Capacities**

<table>
<thead>
<tr>
<th>Service</th>
<th>ZX670LCR-2</th>
<th>ZX670LCR-2 (BER)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.8 m BER-boom</td>
<td>570 liters</td>
<td>380.0 liters</td>
</tr>
<tr>
<td>2.9 m BER-arm</td>
<td>685.0 liters</td>
<td>570 liters</td>
</tr>
<tr>
<td>3.6 m R-arm</td>
<td>570 liters</td>
<td>380.0 liters</td>
</tr>
</tbody>
</table>

---

**Swing Device**

- **Axial piston motor with planetary reduction gear**
  - Bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.
  - Swing speed: 9.5 min⁻¹ (rpm)

---

**Operator’s Cab**

- Independent spacious cab, 1,005 mm wide by 1,795 mm high, conforming to ISO Standards. (CSP top guard fitted Level II (ISO 10262) compliant cab. Reinforced glass windows on 4 sides for visibility. Rocking seat with armrests, adjustable with or without control levers.

- *International Standardization Organization

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**Numbers of Rollers and Shoes on Each Side**

- **Upper rollers**: 3
- **Lower rollers**: 8
- **Track shoes**: 47
- **Full track guard**: 1

---

**Travel Device**

- **Each track driven by axial piston motor through reduction gear**
  - For counterrotation of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type.
  - Automatic transmission system: High-Low.
  - **Travel speeds**
    - High: 0 to 4.9 km/h
    - Low: 0 to 3.4 km/h
  - **Maximum traction forces**
    - 490 kN (46 920 kgf)
  - **Gradients**
    - 70 % (35 degree) continuous

---

**Fuel tank**

- Capacity: 680.0 liters
- Engine oil: 570 liters
- Pump drive: 6.7 liters
- Swing device (each side): 15.0 liters
- Travel device (each side): 15.0 liters
- Hydraulic system: 680.0 liters
- Hydraulic oil tank: 380.0 liters

---

**Swing Device**

- **Axial piston motor with planetary reduction gear**
  - Bathed in oil. Swing parking brake is spring-set/hydraulic-released disc type.
  - Swing speed: 9.5 min⁻¹ (rpm)
**ZAXIS 670LCR**

**DIMENSIONS**

<table>
<thead>
<tr>
<th>ZAX670LCR-a</th>
<th>Conditions</th>
<th>3 m</th>
<th>4 m</th>
<th>6 m</th>
<th>8 m</th>
<th>10 m</th>
<th>11 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Distance between tumbler</td>
<td>4 590</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B Undercarriage length</td>
<td>4 560</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C Counterweight clearance</td>
<td>1 530</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D Rear-end swing radius</td>
<td>3 660</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E Overall length of upperstructure</td>
<td>4 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F Overall height of cab</td>
<td>3 590</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G Min. ground clearance</td>
<td>660</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Track gauge</td>
<td>3 300</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I Track shoe width</td>
<td>6 550</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J Undercarriage width</td>
<td>3 950</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K Overall length</td>
<td>4 340</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L Overall length</td>
<td>13 200</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M Overall height of boom</td>
<td>4 460</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N Track height</td>
<td>1 390</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**WORKING RANGES**

- A Distance between tumbler: 4 590
- B Undercarriage length: 4 560
- C Counterweight clearance: 1 530
- D Rear-end swing radius: 3 660
- E Overall length of upperstructure: 4 100
- F Overall height of cab: 3 590
- G Min. ground clearance: 660
- H Track gauge: 3 300
- I Track shoe width: 6 550
- J Undercarriage width: 3 950
- K Overall length: 4 340
- L Overall length: 13 200
- M Overall height of boom: 4 460
- N Track height: 1 390

---

**Metric measure**

<table>
<thead>
<tr>
<th>ZAX670LCR-a</th>
<th>Conditions</th>
<th>3 m</th>
<th>4 m</th>
<th>6 m</th>
<th>8 m</th>
<th>10 m</th>
<th>11 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>8.8 m R-boom</td>
<td>3 m R-boom</td>
<td>3.6 m R-arm</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>A Max. digging reach</td>
<td>11 840</td>
<td>11 500</td>
<td>11 190</td>
<td>11 730</td>
<td>11 280</td>
<td>11 000</td>
<td></td>
</tr>
<tr>
<td>B Max. digging depth</td>
<td>7 260</td>
<td>6 970</td>
<td>6 700</td>
<td>6 490</td>
<td>6 230</td>
<td>6 050</td>
<td></td>
</tr>
<tr>
<td>C Max. cutting height</td>
<td>11 190</td>
<td>10 940</td>
<td>10 700</td>
<td>10 460</td>
<td>10 220</td>
<td>10 000</td>
<td></td>
</tr>
<tr>
<td>D Max. dumping height</td>
<td>11 360</td>
<td>11 060</td>
<td>10 760</td>
<td>10 460</td>
<td>10 160</td>
<td>9 860</td>
<td></td>
</tr>
<tr>
<td>E Min. swing radius</td>
<td>2 040</td>
<td>1 960</td>
<td>1 880</td>
<td>1 800</td>
<td>1 720</td>
<td>1 640</td>
<td></td>
</tr>
<tr>
<td>F Max. vertical wall</td>
<td>5 280</td>
<td>5 200</td>
<td>5 120</td>
<td>5 040</td>
<td>4 960</td>
<td>4 880</td>
<td></td>
</tr>
<tr>
<td>G Bucket digging force</td>
<td>369 kN (37 700 kgf)</td>
<td>324 kN (33 100 kgf)</td>
<td>289 kN (29 500 kgf)</td>
<td>254 kN (26 000 kgf)</td>
<td>220 kN (22 500 kgf)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>H Arm crowd force</td>
<td>306 kN (31 200 kgf)</td>
<td>266 kN (27 300 kgf)</td>
<td>225 kN (23 600 kgf)</td>
<td>189 kN (19 800 kgf)</td>
<td>162 kN (17 100 kgf)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Notes:**

1. Ratings are based on SAE J1097.
2. 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 a hook (not standard equipment) located on the back of the bucket.
4. Snaps load limited by hydraulic capacity.

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**SPECIFICATIONS / LIFTING CAPACITIES**

**ZAXIS 670LCR-a**

- **A Load radius**
- **B Load point height**
- **C Lifting capacity**

---

**ZX670LCR-a**: 3

**ZX670LCR-a**

- **ZX670LCR**: 3

---

**ZX670LCR-a**: 3

**ZX670LCR**: 3
**SPECIFICATIONS**

**ENGİNE**
- Model: Isuzu 6DW1T
- Type: 6 cylinder, 4-cycle water-cooled, direct injection
- Aspiration: Turbocharged
- No. of cylinders: 6
- Rated power: 237 kW (325 HP) at 2000 min-1

**HYDRAULIC SYSTEM**
- Work mode selector
- General purpose mode / Attachment mode
- Engine speed sensing system
- Main pumps: 2 variable displacement axial piston pumps
- Pilot pump: 1 gear pump
- Maximum oil flow: 32 L/min

**Relief Valve Settings**
- Implement circuit: 31.9 MPa (330 kgf/cm²)
- Swing circuit: 29.4 MPa (300 kgf/cm²)
- Travel circuit: 34.3 MPa (360 kgf/cm²)
- Power boost: 34.3 MPa (360 kgf/cm²)

**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: 2
- Boom: 1375 mm
- Arm: 320 mm
- Bucket: 200 mm
- Bucket (BER): 1375 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 shock less valve and quick-warm-up system built in the pilot circuit.
- Implement levers: 2
- Travel levers with pedals: 2

**UPPERSTRUCTURE**
- Revolving Frame
  - Welded study 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 pinion and pin gear are immersed in lubricant. Swing parking brake is spring-set/hydraulic-released disc type.
  - Swing speed: 3.5 min-1 (rpm)
- Operator's Cabin
  - Minimalist spacious cab, 1,005 mm wide by 1,795 mm high, conforming to ISO Standards. (CPG top guard fitted Level II (ISO 10262) compliant cab) Reinforced glass windows on 4 sides for visibility. Rocking seat with armrests, adjustable with or without control levers.
  * International Standardization Organization

**UNDERCARRIAGE**
- Tracks
- Numbers of Rollers and Shoes on Each Side
  - Upper rollers: 3
  - Lower rollers: 3
  - Track shoes: 47
  - Full length track guard: 1
- Travel Device
  - Each track driven by axial piston motor through reduction gear for countermotoring of the tracks. Sprockets are replaceable. Parking brake is spring-set/hydraulic-released disc type.
  - Automatic transmission system: High-Low.
  - Travel speeds: High: 0 to 4.1 km/h
  - Maximum traction force: 550 kN (57,500 kgf) (SAE, PCSA heaped)
  - Gradeability: 70 % (35 degree) continuous

**WEIGHTS AND GROUND PRESSURE**
- ZX870R-3: Equipped with 8.4 m R-boom, 3.7 m R-arm and 3.5 m³ R-bucket (SAE, PCSA heaped).
  - Shoe type: 650 mm
  - Operating weight: 85,800 kg
  - Ground pressure: 125 kPa (1.25 kgf/cm²)
- ZX870LCR-3: Equipped with 8.4 m R-boom, 3.7 m R-arm and 3.5 m³ R-bucket (SAE, PCSA heaped).
  - Shoe type: 650 mm
  - Operating weight: 85,800 kg
  - Ground pressure: 125 kPa (1.25 kgf/cm²)

**BACKHOE ATTACHMENTS**
- Boom and arms are of all-welded, box-section design. A number of booms and arms are available. Bucket is of all-welded, high strength steel structure. The ZX870R-3 / ZX870LCR-3 are a heavy duty type and can be equipped with a reinforced R-boom or BER-boom and R-arm or BER-arm.

**Backhoe Buckets**
- ZX870R-3 / ZX870LCR-3
  - Recommendation
  - SAE, PCSA heaped: 0 ECE heaped: 0 Without side shrouds: 0 With side shrouds: 0
  - Weight: 500 kg

**SERVICE REFILL CAPACITIES**
- Fuel tank: 120.0 liters
- Engine coolant: 110.0 liters
- Engine oil: 57.0 liters
- Pump drive: 6.2 liters
- Swing device (each side): 15.0 liters
- Travel device (each side): 13.0 liters
- Hydraulic system: 750.0 liters
- Hydraulic oil tank: 500.0 liters


### ZAXIS 870R / 870LCR

#### DIMENSIONS

- **A** Distance between turntables: 4,590 mm
- **B** Undercarriage length: 5,840 mm
- **C** Counterweight clearance: 1,680 mm
- **D** Rear end swing radius: 4,600 mm
- **E** Overall width of upperstructure: 4,520 mm
- **F** Track height: 3,780 mm
- **G** Min. ground clearance: 890 mm
- **H** Track gauge: 3,450 mm
- **I** Track shoe width: 4,120 mm
- **J** Overall height of cab: 4,100 mm
- **K** Overall length: 4,630 mm
- **L** Overall width: 14,270 mm
- **M** Overall height of boom: 4,510 mm
- **N** Track length: 1,500 mm

#### WORKING RANGES

### ZAXIS 870R / 870LCR

**Boom length**:
- 7.1 m BER-boom
- 8.4 m R-boom

**Arm length**:
- 2.3 m BER-arm
- 3.7 m R-arm

- **A** Max. digging reach: 12,340 mm
- **B** Max. digging depth (on ground): 7,140 mm
- **C** Max. digging depth (8' level): 7,000 mm
- **D** Max. dumping height: 8,150 mm
- **E** Max. swing radius: 5,610 mm
- **F** Max. vertical wall: 4,100 mm

- **Arm length for** ISO
  - 7.1 m BER-arm: 8,250 mm
  - 8.4 m R-arm: 9,810 mm
- **Arm length for** SAE: PCSA
  - 7.1 m BER-arm: 8,000 mm
  - 8.4 m R-arm: 9,600 mm

- **Bucket digging force** ISO
  - 7.1 m BER-arm: 299 kN (30,300 kgf)
  - 8.4 m R-arm: 402 kN (41,000 kgf)
- **Bucket digging force** SAE: PCSA
  - 7.1 m BER-arm: 299 kN (30,300 kgf)
  - 8.4 m R-arm: 402 kN (41,000 kgf)

**Load radii**:
- 3 m
- 4 m
- 6 m
- 8 m
- 10 m
- 12 m

**At max. reach**:
- 8.4 m R-boom

#### SPECIFICATIONS / LIFTING CAPACITIES

**ZX870R-3**

- **Bucket size**:
  - 5 m³
- **Air pressure**:
  - 7.1 m BER-arm: 0.60 MPa
  - 8.4 m R-arm: 0.60 MPa
- **Power**:
  - 158 kW
- **Engine**:
  - Komatsu 6D107-E04
- **Transmission**:
  - Komatsu 6-SRS
- **Operating weight**:
  - 63,300 kg
- **Engine power**:
  - 181 kW

**ZX870LCR-3**

- **Bucket size**:
  - 4.6 m³
- **Air pressure**:
  - 7.1 m BER-arm: 0.60 MPa
  - 8.4 m R-arm: 0.60 MPa
- **Power**:
  - 151 kW
- **Engine**:
  - Komatsu 6D105-E04
- **Transmission**:
  - Komatsu 6-SRS
- **Operating weight**:
  - 61,000 kg
- **Engine power**:
  - 174 kW

### Metric measure

- **Load point**:
  - 2.0 m
- **Load radius**:
  - 3.0 m
- **Height**:
  - 2.0 m
- **Height from ground**:
  - 3.0 m
- **Height from ground** (B): 2.0 m

### Notes

1. Ratings are based on SAE J1097.
2. 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 a hook (not standard equipment) located on the back of the bucket.
4. Indicates load limited by hydraulic capacity.
TRANSPORTATION

ZAXIS 400R / 470R / 470LCR / 520LCR

TRANSPORTATION

ZAXIS 400R-3
BASIC MACHINE WITH FRONT AND SIDEWALK

BASIC MACHINE WITH BOOM, ARM AND WITHOUT SIDEWALK

BASIC MACHINE WITHOUT COUNTERWEIGHT

BASIC MACHINE FITTED WITH BOOM AND WITHOUT SIDEWALK

BASIC MACHINE WITH FRONT AND SIDEWALK

Note: Undercarriage retracted

Note: Undercarriage retracted

ZAXIS 400R-3 / ZAXIS 470L-3 / ZAXIS 470L-3 / ZAXIS 520L-3

ARM WITH BUCKET

BUCKET

ZAXIS 400R-3
COUNTERWEIGHT 8 000 kg

LEFT SIDEWALK 21.5 kg

LEFT SIDEWALK 20.3 kg

ZAXIS 470L-3 / ZAXIS 470L-3 / ZAXIS 520L-3

COUNTERWEIGHT 9 150 kg

COUNTERWEIGHT 9 820 kg

LEFT SIDEWALK 44 kg

LEFT SIDEWALK 30 kg
ZAXIS 670LCR / 870R / 870LCR

TRANSPORTATION

### Capacity

<table>
<thead>
<tr>
<th>SAE, PCSA</th>
<th>CECE</th>
<th>Overall Width</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Heaped</td>
<td>Heaped</td>
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<tr>
<td>SAE, PCSA</td>
<td>CECE</td>
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### Arm

<table>
<thead>
<tr>
<th>Overall Width</th>
<th>Weight</th>
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</thead>
<tbody>
<tr>
<td>Arm A</td>
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<tr>
<td>Arm B</td>
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</table>


### Bucket

<table>
<thead>
<tr>
<th>Bucket A</th>
<th>Bucket B</th>
<th>Overall Width</th>
<th>Weight</th>
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### Basic Machine (Without Counterweight)

<table>
<thead>
<tr>
<th>Shoe Width</th>
<th>Overall Height</th>
<th>Weight</th>
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### Boom

<table>
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<tr>
<th>Overall Width</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Boom A</td>
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### Counterweight

<table>
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<th>Weight</th>
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<tbody>
<tr>
<td>Counterweight A</td>
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<tr>
<td>Counterweight B</td>
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</table>


### Upperstructure

**Boom Cylinders 550 kg x 2**

<table>
<thead>
<tr>
<th>Overall Width</th>
<th>Weight</th>
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**Hose of Boom Cylinders 7 kg x 2 / 10 kg x 2**

<table>
<thead>
<tr>
<th>Overall Width</th>
<th>Weight</th>
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**Left Sidewalk**

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<tr>
<th>Overall Width</th>
<th>Weight</th>
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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 850 kg x 2**

<table>
<thead>
<tr>
<th>Overall Width</th>
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**Hose of Boom Cylinders 13 kg x 2 / 9 kg x 2**

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<thead>
<tr>
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### Side Frame

<table>
<thead>
<tr>
<th>Shoe Width</th>
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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 550 kg x 2**

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### Counterweight

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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 850 kg x 2**

<table>
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**Hose of Boom Cylinders 13 kg x 2 / 9 kg x 2**

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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 550 kg x 2**

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**Hose of Boom Cylinders 7 kg x 2 / 10 kg x 2**

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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 850 kg x 2**

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**Hose of Boom Cylinders 13 kg x 2 / 9 kg x 2**

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### Basic Machine (Without Undercarriage Retracted)

**Boom Cylinders 550 kg x 2**

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**Hose of Boom Cylinders 7 kg x 2 / 10 kg x 2**

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**STANDARD EQUIPMENT**

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

**ENGINE**
- H-P mode control
- P mode control
- E mode control
- 50 A alternator
- Dry-type air double filter with exhaust filter (with air filter restriction switch for monitor)
- Cartridge-type engine oil filter
- Cartridge-type fuel filter
- Fuel pre-filter
- Radiator, oil cooler and intercooler with dust protective net
- Radiator reserve tank
- Fan guard
- Isolation-mounted engine
- Fuel cooler
- Engine oil drain coupler

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

**UNDERCARRIAGE**
- Swing damper valve

**LIGHTS**
- 3 working lights
- 2 cab lights

**MONITOR SYSTEM**
- Display of meters: water temperature, hour, fuel rate, clock
- Other displays: work mode, auto-idle, glow, auxiliary monitor (when optional rear view camera is equipped), 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

**UPPER STRUCTURE**
- 4.5 mm thickness Undercover
- Fuel level float
- 170 Ah batteries
- Hydraulic oil level gauge
- Tool box
- Utility space
- Rearview mirror (right & left side)
- Steering parking brake

**UNDERCARRIAGE**
- Travel parking brake
- Reinforced travel motor covers
- hydraulic track adjuster
- Tiller track guard
- Bolt-on sprocket guard
- Upper and lower rollers
- Reinforced track link with pin seals
- Full track guard

**EQUIPMENT**

**FRONT ATTACHMENTS**
- Boom cylinder hose protectors
- Arm cylinder hose protectors
- Bucket cylinder hose protectors
- Flanged pin
- Reinforced link A
- Reinforced link B
- Centralized lubrication system
- Dirt seal on all bucket pins
- Damage prevention plate and square bars

**OPTIONAL EQUIPMENT**

- Track under cover
- Right side walk
- Rain guard for cab
- Attachment basic piping
- Accessories for breaker
- Accessories for breaker & breaker for 2 speed selector
- Sun visor
- 12 V power source
- Overload alarm
- Rear view camera
- Front glass lower guard
- Front glass upper guard
- Counterweight removal device

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

**HYDRAULIC SYSTEM**
- Electrical fuel feed pump

**MONITOR SYSTEM**
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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.