### ZAXIS-5 series
Forest Machine

## FOREST MACHINE

### ZAXIS 210F/210MF

<table>
<thead>
<tr>
<th>Model Code</th>
<th>ZX210F-5G</th>
<th>ZX210MF-5G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engine Rated Power</td>
<td>125 kW (168 HP)</td>
<td>125 kW (168 HP)</td>
</tr>
<tr>
<td>Backhoe Bucket (ISO Heaped)</td>
<td>0.91 m³</td>
<td>0.91 m³</td>
</tr>
<tr>
<td>Operating Weight</td>
<td>22 200 kg</td>
<td>22 400 kg</td>
</tr>
</tbody>
</table>
Hitachi ZAXIS-5G is Purpose Built for Harsh Forestry Applications Including Development and Reclamation in Woods.

The Tough Engine Sustains High Uptime.
The Body and Front Are Guarded against Obstructions for Higher Durability.
Daily Maintenance and Services Are Also Simplified Even More.

**Durability**
- Durable, reliable engine.
- Robust undercarriage for powerful travel in woods, fields and wetlands.
- Diverse reinforcements to enhance mobility.
- Exclusively reinforced guards to prevent mishap and downtime.
- Exclusively reinforced forestry-work boom and arm bear diverse external forces.

**Performance**
- Reduction in fuel consumption.
- Rugged undercarriage to enhance maneuverability.

**Maintenance**
- Easy-to-clean cooling system.
- Storage space.

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Reinforced forestry arm

Reinforced forestry boom

Exclusive cab guards

Exclusive body guards

Durable, reliable engine

Robust fix grapple

Storage space

Exclusively reinforced undercarriage with wide 800 mm shoes

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Pictured: ZX210MF-5G
Backhoe bucket is an optional.
Durability

Durable, Reliable Engine

This engine has a track record showing impressive durability at countless tough job sites around the world. The engine — associated with a rugged design, a direct fuel injection system and an elaborate governor — goes simple and easy maintainability.

Robust Undercarriage Allows for Powerful Travel in Woods, Fields and Wetlands

Thickened Grouser-Track Links

Track links are upgraded for higher strength. Track links are 7% thicker, bushing diameter 14% greater, compared to standard ZX200-5G model.

Electroplated for High Corrosion Protection

The cab and body are painted by electrodeposition coating (ED), which is immersion coating by electrolysis. This is especially effective at corrosion-prone areas, such as flat surfaces, edges and boxes, for high corrosion resistance. The refined ED process leaves no spatter marks, as occurs with spray paint, giving a smooth mark-free surface.

Increased bushing diameter

Thickened track links

Diverse Reinforcements Enhance Mobility

The Rugged Track Frame Using Thicker Bottom Plates

Idler brackets are reinforced by thickening and structural change. A track undercover is thickened, and bolts are fitted with guards to protect bolts from abrasion. Upper rollers are supported on both sides, and side frame tops are sloped to promote sliding-away of mud and stems. Three track guards are provided on each track to keep track links engaged.

Exclusively Reinforced Guards to Prevent Mishap and Downtime

Exclusive Cab Guards

The forestry cab is fitted with a front guard, top guard and rear guard to protect the operator from obstacles. Cab guard is openable at their tops for emergency escape.

Exclusive Body Guards

The body is provided with exclusive guards on both sides to protect the radiator and hydraulic pumps, and at its top to protect the engine.

Exclusively Designed Forestry-Work Boom and Arm Bear Diverse External Forces

The boom is reinforced using thicker plates than a standard boom, and additional welds. The arm is also reinforced using thicker plates and bulkheads. These reinforcements increase the strength of the front attachment.

The refined ED process leaves no spatter marks, as occurs with spray paint, giving a smooth mark-free surface.
Performance

5% Reduction in Fuel Consumption

The new ZAXIS consumes 5% less fuel and emits less CO2 than a conventional ZX200, thanks to the advanced HIOS III hydraulic system and engine control system.

The Rugged Undercarriage Boasts Mobility

The new ZAXIS is fitted with wide 800 mm shoes to lower ground pressure greatly, achieving powerful travel on wetlands.

Ground pressures:

**ZX210MF-5G** 38 kPa

Standard **ZX200-5G** 44 kPa

The forest machine **ZX200MF-5G** has a larger ground clearance and wider track gauge to give space free from collision with stubs and other obstructions.

**Specifications**

### ZX210MF-5G

- **Min. ground clearance:** 585 mm
- **Track gauge:** 2 390 mm

### ZX200-5G

- **Min. ground clearance:** 450 mm
- **Track gauge:** 2 200 mm

### Maintenance

**Easy-to-Clean Cooling System**

Body guards are openable for easy maintenance and inspection.

Dust-proof indoor net can easily be removed at one touch to keep clean and reduce downtime due to clogging with insects, leaves and such.

The rear of the radiator can easily be cleaned by air blowing through a one-touch open cover. The air conditioner is openable for easy cleaning at its rear.

Dust-proof indoor net

### Storage Space

A tool box and utility space can hold tools, parts and oils for efficient daily maintenance, helping reduce downtime.

Storage space

**Undercarriage**

Heat treated connecting pins with dirt seals. Hydraulic (grease) track adjusters with shock-absorbing recoil springs.

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

- Upper rollers: 2
- Lower rollers: 7
- Track shoes: 46
- Track guards: 3

**Travel Device**

Each track driven by 2-speed axial piston motor.

Pneumatic brakes are spring-set/hydraulic-released disc type.

Automatic transmission system: High-Low.

Travel speeds: High: 0 to 5.5 km/h

Low: 0 to 3.5 km/h

Maximum traction force: 203 kN (20 700 kgf)

Gradability: 70% (35 degrees) continuous

**Service Refill Capacities**

<table>
<thead>
<tr>
<th>Fuel tank</th>
<th>Engine coolant</th>
<th>Engine oil</th>
<th>Swing device</th>
<th>Travel device (each side)</th>
<th>Hydraulic system</th>
<th>Hydraulic oil tank</th>
</tr>
</thead>
<tbody>
<tr>
<td>400.0 L</td>
<td>23.0 L</td>
<td>25.0 L</td>
<td>6.2 L</td>
<td>6.8 L</td>
<td>240.0 L</td>
<td>136.0 L</td>
</tr>
</tbody>
</table>

**Weights and Ground Pressure**

**WEIGHTS**

- ZX10F-5G: 22 200 kg
- ZX10MF-5G: 22 400 kg

**GROUND PRESSURE**

- Standard **ZX200-5G**: 58 kPa
- **ZX210MF-5G**: 38 kPa

**Swing Device**

- Axial piston motor with planetary reduction gear is bathed in oil. Swing circle is single-row.

Swing parking brake is spring-set/hydraulic-released disc type.

Swing speed: 13.5 min^-1 (rpm)

Swing torque: 68 kNm (6 900 kgf m)

Operator’s Cab

- Independent spacious cab, 1 005 mm wide by 1 675 mm high, conforming to ISO 805 standards.

- *International Organization for Standardization*
SPECIFICATIONS

DIMENSIONS ZX210F-5G/ZX210MF-5G

Unit: mm

<table>
<thead>
<tr>
<th>ZX210F-5G</th>
<th></th>
<th>ZX210MF-5G</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>2.91 m</td>
<td>2.91 m</td>
</tr>
<tr>
<td>Bucket digging force* ISO</td>
<td>158 kN (16 200 kgf)</td>
<td>158 kN (16 200 kgf)</td>
</tr>
<tr>
<td>Arm digging force* ISO</td>
<td>114 kN (11 600 kgf)</td>
<td>114 kN (11 600 kgf)</td>
</tr>
</tbody>
</table>

* Excluding track shoe lug

* At power boost

WORKING RANGES ZX210F-5G/ZX210MF-5G

<table>
<thead>
<tr>
<th></th>
<th>ZX210F-5G</th>
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<tbody>
<tr>
<td>Arm length</td>
<td>2.91 m</td>
<td>2.91 m</td>
</tr>
<tr>
<td>A Max. Working height</td>
<td>10 210</td>
<td>10 380</td>
</tr>
<tr>
<td>B Max. Working depth</td>
<td>6 710</td>
<td>6 540</td>
</tr>
<tr>
<td>C Max. Working reach</td>
<td>9 980</td>
<td>9 980</td>
</tr>
</tbody>
</table>

* Illustration show ZX210MF-5G

Excluding track shoe lug
## LIFTING CAPACITIES (Without Bucket)

Notes: 1. Ratings are based on ISO 10577.
2. Lifting capacity does not exceed 75% of tipping load with the machine on firm, level ground or 87% full hydraulic capacity.
3. The load point is the center-line of the bucket pivot mounting pin on the arm.
4. Indicate load limited by hydraulic capacity.
5. 0 m = Ground.

For lifting capacities, subtract bucket and quick hitch weight from lifting capacities without bucket.

### ZX210F-ss

<table>
<thead>
<tr>
<th>Load point height m</th>
<th>Load radius 1.5</th>
<th>3.0</th>
<th>4.5</th>
<th>6.0</th>
<th>7.5</th>
<th>At max. reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.68 m 3-point</td>
<td>9 490</td>
<td>6 890</td>
<td>5 110</td>
<td>3 710</td>
<td>2 610</td>
<td>5 920</td>
</tr>
<tr>
<td>0 (Ground)</td>
<td>9 490</td>
<td>6 890</td>
<td>5 110</td>
<td>3 710</td>
<td>2 610</td>
<td>5 920</td>
</tr>
<tr>
<td>-1.5</td>
<td>9 490</td>
<td>6 890</td>
<td>5 110</td>
<td>3 710</td>
<td>2 610</td>
<td>5 920</td>
</tr>
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## EQUIPMENT

### ENGINE

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air cleaner double filters</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Auto idle system</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Turbo-type engine of filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dry-type engine of main filter</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auto power lift</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control valve with main relief valve</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Full-Rise filter</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power boost</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### LIGHTS

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 working lights</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### UNDERCARRIAGE

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced track frame</td>
<td></td>
<td></td>
</tr>
<tr>
<td>High &amp; Wide track</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### FRONT ATTACHMENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reinforced track links with pin sealed</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Reinforceable bracket</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### MISCELLANEOUS

<table>
<thead>
<tr>
<th>Item</th>
<th>ZX210F-ss</th>
<th>ZX210MF-ss</th>
</tr>
</thead>
<tbody>
<tr>
<td>Global e-Service</td>
<td></td>
<td></td>
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</table>

Standard and optional equipment may vary by country, so please consult your Hitachi dealer for details.
Built on the foundation of superb technological capabilities, Hitachi Construction Machinery is committed to providing leading-edge solutions and services to contribute as a reliable partner to the business of customers worldwide.

Reducing Environmental Impact by New ZAXIS

Hitachi makes a green way to cut carbon emissions for global warming prevention according to LCA*. New ZAXIS utilizes lots of technological advances, including the new ECO mode, and Isochronous Control. Hitachi has long been committed to recycling of components, such as aluminum parts in radiators and oil cooler. Resin parts are marked for recycling.

*Life Cycle Assessment – ISO 14040

The Hitachi Group released the Environmental Vision 2025 to curb annual carbon dioxide emissions. The Group is committed to global production while reducing environmental impact in life cycles of all products, and realizing a sustainable society by tackling three goals — prevention of global warming, conservation of resources, and preservation of ecosystem.

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.