STANDARD EQUIPMENT

ISO Standard cabin
- All-weather steel cab with 360° visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding side window (RH)
- Lockable door
- Hot & cool box
- Storage compartment & Ashtray
- Transparent cabin roof-cover
- CD/MP3 Player
- Handsfree mobile phone system with USB
- Sun visor

Computer aided power optimization (New CAPO) system
- 3-power mode, 2-work mode, user mode
- Auto deacceleration & one-touch deacceleration system
- Auto warm-up system
- Auto overheat prevention system
- Automatic climate control
- Air conditioner & heater
- Defroster
- Self-diagnosis system
- Starting Aid (warmed & heated) for cold weather
- Centralized monitoring
- LCD display
- Engine speed or Trip meter/Ascd.
- Clock
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
- Warnings
- Check Engine
- Overload
- Communication error
- Low battery
- Air cleaner clogging
- Air cleaner cleaning
- Indicators
- Max power
- Low speed/high speed
- Fuel warner
- Auto idle
- Door and cab locks, one key
- Two outside rearview mirrors
- Fully adjustable suspension seat with seat belt
- Pilot-operated slideable joystick
- Console box height adjust system
- Two front working lights
- Electr. power
- Batteries (2 x 12V x 100 AH)
- Battery-maint- switch
- Removable engine oil filter system for cooler
- Automatic swing brake
- Expandable rearview rack
- Fuel lean/fuel with fuel warner
- Boom holding system
- Arm holding system
- Counterweight (3,400kg, 7,500lb)
- Accumulator for lowering work equipment
- Travel alarm
- Operator suit
- Rearview camera

OPTIONAL EQUIPMENT

Fuel filler pump (20 L/min)
- Season lamp
- Safety lock valve for boom cylinder with overload warning device
- Safety lock valve for arm cylinder
- Single-acting piping kit (clamshell, etc.)
- Double-acting piping kit (clamshell, etc.)
- Recorded speaker
- 12 volt power outlet (AC 0V to 12V DC converter)

Various optional Arms
- Super short arm (2.9 m, 9' 10")
- Short arm (2.4 m, 7' 10")
- Climate control
- Air conditioner only
- Heater only
- Cabin FOPS/FOG (ISO/DIS 10262)
- FOPS (Falling Object Protective Structure)
- FOG (Falling Object Guard)
- Cabin roof-cover
- Cabin lights
- Cabin front window rain guard
- Sun visor
- Front and rear outrigger
- Front and rear outrigger (Independent)
- Front blade and rear outrigger
- Lower frame under cover (Additional)
- 12 volt DC
- Operator suit
- Rearview camera

Seat
- Adjustable air suspension seat
- Adjustable air suspension seat with heater
- Mechanical suspension seat with heater
- Tires - dual (10.00x16 - 8-10 solid)

Leve (Levels) ...
- Pattern change valve (2 patterns)
- Remote (Remote Management System)
- Travel pedal (2 type)

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
* The photos may include attachments and optional equipment that are not available in your area.
* Materials and specifications are subject to change without advance notice.
* All imperial measurements rounded off to the nearest pound or inch.
Hyundai Heavy Industries strives to build state-of-the-art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

Robex 210W-9

Machine Walk-Around

Hyundai Heavy Industries

Carrier
- Heavy duty carrier frame with two speed powershift transmission.
- Heavy duty drive line and axles.
- Front axle oscillation +/- 7 degrees with ram lock.
- Wet disc brake (front & rear).
- Automatic parking brake - spring applied, hydraulically released.

Engine Technology
- Proven and reliable, fuel efficient Cummins Tier III QSB6.7 engine.
- Electronically controlled for optimum fuel-to-air ratio and clean, efficient combustion.
- Low noise / Auto engine overheat feature / Anti-restart feature.

Hydraulic System Improvements
- New patented hydraulic control system for improved controllability / Improved control valve design for added efficiency and smoother operation / New auto boom and swing priority system for optimum speed / New auto power boost feature for additional power when needed / Improved arm-in flow regeneration system for added speed and efficiency.

Pump Compartment
- Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps.
- New compact solenoid block equipped with 3 solenoid valves, 2 EPPR valves, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock, arm-in regeneration control, swing logic valve control.
- Remotely mounted fuel, engine oil and case drain filters for maximum convenience while servicing.

Improved Steering Column
- Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps.
- New compact solenoid block equipped with 3 solenoid valves, 2 EPPR valves, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock, arm-in regeneration control, swing logic valve control.
- Remotely mounted fuel, engine oil and case drain filters for maximum convenience while servicing.

Improved Operability
- New hydraulic control system for improved controllability.
- Improved control valve design for added efficiency and smoother operation.
- New auto boom and swing priority system for optimum speed.
- New auto power boost feature for additional power when needed.
- Improved arm-in flow regeneration system for added speed and efficiency.

Improved Cab Construction
- New steel tube construction for added operator safety, protection and durability.
- New window open/close mechanism designed with cable and spring lift assist and single latch release.

Improved Steering Column
- Slim-profile steering column capable of telescoping 60 mm and tilting 30 degrees.

Improved Cab Construction
- Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps.
- New compact solenoid block equipped with 3 solenoid valves, 2 EPPR valves, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock, arm-in regeneration control, swing logic valve control.
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Improved Cab Construction
- New window open/close mechanism designed with cable and spring lift assist and single latch release.

Advanced 7” Color Cluster
- New color LCD display with easy-to-read digital gauges for hydraulic oil temperature, water temperature, and fuel.
- Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.
- 3 power modes: (P) Power, (S) Standard, (E) Economy, 2 work modes: Dig & Attachment, (U) User mode for operator preference.
- Enhanced self-diagnostic features with GPS download capability.
- One pump flow or two pump flow for optional attachment now selectable through the monitor.

Advanced 7” Color Cluster
- New anti-theft system with password capability.
- Boom speed and arm regeneration are selectable through the monitor.
- Auto power boost is now available - selectable on/off through the monitor.
- Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7A series.
- Hi-Mate (Remote Management System) works through GPS/GSM technology to ultimately provide better customer service and support.
Preference

Operating a 9 series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

Operator Comfort

In a 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your preferred comfort level. Seat and console position and height can be set together and independent from each other. Improved steering wheel telescope and tilt functions provide operators improved access. A fully automatic, high capacity airconditioning system maintains a constant preferred temperature. During cold weather conditions, the PTC cab heater provides immediate heat at startup for added operator comfort.

Wide Cabin with Excellent Visibility

Photo may include optional equipment.

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Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai’s 9 series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with CD player, AM/FM stereo and MP3 capabilities, plus remotely located controls is perfect for listening to music favorites. Operators can even talk on the phone with the hands-free cell phone feature.

Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, rear-view camera, maintenance check lists, start-up machine security, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.

Operator Comfort

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Innovative hydraulic system technologies make the 9 series excavator fast, smooth and easy to control.

Computer Aided Power

The engine horsepower and hydraulic horsepower work together in unison through the advanced CAPO (Computer Aided Power Optimization) system. This system interfaces with multiple sensors placed throughout the hydraulic system, as well as the electronically controlled engine, to provide the optimum level of engine power and hydraulic flow for the job at hand. Operators can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button. The CAPO system also provides complete self-diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperature and fuel level.

Power Mode

Three unique power modes provide the operator with custom power, speed and fuel economy. P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and engine power based on load demand.

Work Mode

The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

User Mode

Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings according to personal preferences.

Improved Hydraulic System

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort. Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9 series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.

Auto Boom-swing Priority

This smart function automatically and continuously looks for the ideal hydraulic flow balance for the boom and swing functions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.

*Photo may include optional equipment.
The Tier III, six cylinder, 4 cycle, turbo-charged, charge air cooled, Cummins QSB 6.7 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

9 series is designed for maximum performance to keep the operator working productively.

**Structural Strength**

The 9 series cabin structure has been fitted with stronger but slimmer tubing for more safety and better visibility. Low-stress and high-strength steel was integrally welded to form a strong and stable lower frame. Structural durability was evaluated and tested by means of FEM (Finite Elements Method) analysis and long-term durability tests.

**New and Improved Travel System**

Auto cruise control system reduces operator fatigue by maintaining a fixed speed when driving distances. A new auto ram lock system is available to improve operating safety. A new creep speed travel system improves maneuverability and fine control. A new optional forward / reverse travel pedal control allows operators to choose to use the travel pedal control while in work mode or lever control when in travel mode.

**Fully Independent Outrigger System**

R210W-9 can be equipped with four independent outriggers (front and rear) or two independent outriggers and a dozer blade (front or rear). Each outrigger and the dozer blade are controlled by a switch and the dozer lever. Each outrigger is equipped with cylinder guards for added protection.

**CUMMINS QSB 6.7 Engine**

The Tier III, six cylinder, 4 cycle, turbo-charged, charge air cooled, Cummins QSB 6.7 engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

*Photo may include optional equipment.*
Profitability

9 series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.

*Photo may include optional equipment.

Fuel Efficient

9 series excavators are engineered to be extremely fuel efficient. New innovations like the variable speed fan clutch, overload prevention control, three-stage auto decel system, and the new economy mode, conserve fuel and reduce the impact on the environment.

Hi-mate (Remote Management System)

Hi-mate, Hyundai’s proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing the need for multiple service calls.

Easy Access

Ground-line access to filters, lube fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9 series.

Extended Life Components

9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.
Specifications

ENGINE

**Model:** Cummins QSB 6.7

**Type:** Water-cooled, 4-cylinder, direct injection, turbocharged, diesel engine

**Rated Horsepower:**
- **SAE:** 225 HP (167 kW) at 1,900 rpm
- **J1349:** 228 HP (170 kW) at 1,900 rpm

**Drive System:**
- Water-cooled, 4-cylinder, direct injection, turbocharged, diesel engine
- **Rated Power:**
  - **SAE:** 225 HP (167 kW) at 1,900 rpm
  - **J1349:** 228 HP (170 kW) at 1,900 rpm

**Erication:**
- **Rated Torque:**
  - **SAE:** 871 ft-lb (1,190 Nm) at 1,900 rpm
  - **J1349:** 890 ft-lb (1,200 Nm) at 1,900 rpm

**Coolant:**
- **Rated Temperature:**
  - **SAE:** 280°F (137°C)
  - **J1349:** 300°F (150°C)

**Battery:**
- **Rated Capacity:** 120 amp

**Transmission:**
- **Type:** Automatic, wet clutch, multi-plate clutch
- **Rated Torque:**
  - **SAE:** 1,670 ft-lb (2,250 Nm) at 1,900 rpm
  - **J1349:** 1,870 ft-lb (2,520 Nm) at 1,900 rpm

**Steering System:**
- **Type:** Hydrostatic
- **Rated Pressure:**
  - **SAE:** 3,500 psi (24,000 kPa)
  - **J1349:** 3,500 psi (24,000 kPa)

**AXLE & WHEEL**

**Front Axle:**
- **Rated Torque:**
  - **SAE:** 1,000 ft-lb (1,350 Nm)
  - **J1349:** 1,000 ft-lb (1,350 Nm)

**Rear Axle:**
- **Rated Torque:**
  - **SAE:** 2,000 ft-lb (2,700 Nm)
  - **J1349:** 2,000 ft-lb (2,700 Nm)

**SWING SYSTEM**

**Swing Motor:**
- **Type:** Fixed displacement axial piston motor
- **Rated Pressure:**
  - **SAE:** 4,000 psi (27,500 kPa)
  - **J1349:** 4,000 psi (27,500 kPa)

**Swing Reduction:**
- **Type:** Planetary gear reduction
- **Rated Pressure:**
  - **SAE:** 2,000 psi (14,000 kPa)
  - **J1349:** 2,000 psi (14,000 kPa)

**Swing Bearing:**
- **Type:** Grease-bathed

**Swing Brake:**
- **Type:** Multi-wet disc (pin lock type)
- **Rated Pressure:**
  - **SAE:** 1,100 psi (7,650 kPa)
  - **J1349:** 1,100 psi (7,650 kPa)

**OPERATING WEIGHT (APPROXIMATE)**

**Operating Weight:**
- **SAE:**
  - **SAE 50:** 17,900 lbs (8,130 kg)
  - **SAE 80:** 20,400 lbs (9,250 kg)

**Buckets**

**All Buckets are Specified with High-strength Steel:**
- **Capacity:**
  - **SAE 50:**
    - **Heaped:** 1.70 m³ (2.2 yd³)
    - **Clean:** 1.65 m³ (2.1 yd³)

**DIGGING FORCE**

**Operating Force:**
- **SAE:**
  - **50:** 2,000 lbs (907 kg)
  - **80:** 2,800 lbs (1,270 kg)

**ATTACHMENT**

**Buckets:**
- **All Buckets are Specified with High-strength Steel:**
  - **Capacity:**
    - **SAE 50:**
      - **Heaped:** 1.70 m³ (2.2 yd³)
      - **Clean:** 1.65 m³ (2.1 yd³)

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- **SAE:**
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**Note:**
- **Weight:** including bucket, linkage, and pin
### Dimensions & Working Range

**R210W-9 DIMENSIONS**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wheel base</td>
<td>2,800 (9' 2&quot;)</td>
</tr>
<tr>
<td>Tread</td>
<td>1,874 (6' 2&quot;)</td>
</tr>
<tr>
<td>Ground clearance of counterweight</td>
<td>2,920 (9' 7&quot;)</td>
</tr>
<tr>
<td>Tail swing radius</td>
<td>2,920 (9' 7&quot;)</td>
</tr>
<tr>
<td>Rear-end length</td>
<td>2,765 (9' 1&quot;)</td>
</tr>
<tr>
<td>Overall width of appearance</td>
<td>2,150 (6' 10&quot;)</td>
</tr>
<tr>
<td>Overall height of cap</td>
<td>3,700 (12' 2&quot;)</td>
</tr>
<tr>
<td>Ground clearance of outrigger up</td>
<td>345 (11' 2&quot;)</td>
</tr>
<tr>
<td>Overall width of lower structure</td>
<td>2,490 (8' 2&quot;)</td>
</tr>
<tr>
<td>Ground clearance of blade up</td>
<td>445 (14' 6&quot;)</td>
</tr>
<tr>
<td>Depth of blade down</td>
<td>125 (4' 9&quot;)</td>
</tr>
<tr>
<td>J height</td>
<td>610 (20' 0&quot;)</td>
</tr>
<tr>
<td>Width of blade</td>
<td>2,490 (8' 2&quot;)</td>
</tr>
<tr>
<td>K Ground clearance of outrigger up</td>
<td>1,220 (4' 0&quot;)</td>
</tr>
<tr>
<td>L Depth of outrigger down</td>
<td>120 (4' 0&quot;)</td>
</tr>
<tr>
<td>M Overall width of outrigger</td>
<td>3,770 (12' 4&quot;)</td>
</tr>
</tbody>
</table>

**R210W-9 WORKING RANGE**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Measurement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>5,650 (18' 6&quot;)</td>
</tr>
</tbody>
</table>

### Lifting Capacity

#### R210W-9

**Lifting Capacity**

<table>
<thead>
<tr>
<th>Load point height</th>
<th>Load radius</th>
<th>Capacity</th>
<th>Reach</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.0 m (16' 7&quot;)</td>
<td>≥2,960</td>
<td>≥33490</td>
<td>≥10740</td>
</tr>
<tr>
<td>6.0 m (19' 8&quot;)</td>
<td>≥3,600</td>
<td>≥4590</td>
<td>≥15590</td>
</tr>
<tr>
<td>7.5 m (25 ft)</td>
<td>≥4,590</td>
<td>≥6860</td>
<td>≥22640</td>
</tr>
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</table>

#### R210W-9 - Over front

<table>
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<td>≥6860</td>
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#### R210W-9 - Over side or 360 degree

<table>
<thead>
<tr>
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<th>Load radius</th>
<th>Capacity</th>
<th>Reach</th>
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<td>≥22640</td>
</tr>
</tbody>
</table>

1. Lifting capacity is based on SAE 10079, ISO 10567.
2. * indicates the load limited by hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. The machine on firm, level ground or 87% of full hydraulic capacity.
5. (*) indicates the load limited by hydraulic capacity.

---

Unit: m (ft)
### Lifting Capacity

**R210W-9**

**Rating over-front**

**Rating over-side or 360 degree**

** Boom : 5.65 m (18' 6") / Arm : 2.92 m (9' 7") / Bucket : 0.80 m³ (1.05 yd³) SAE heaped / 4 outrigger up with 3,400 kg (7,500 lb) counterweight.**

<table>
<thead>
<tr>
<th>Load point height (m)</th>
<th>1.5 m (5 ft)</th>
<th>2.0 m (6.5 ft)</th>
<th>2.5 m (8.2 ft)</th>
<th>3.0 m (10 ft)</th>
<th>3.5 m (11.5 ft)</th>
<th>4.0 m (13.0 ft)</th>
<th>4.5 m (15.0 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>kg</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 m</td>
<td>9240</td>
<td>13900</td>
<td>22500</td>
<td>34700</td>
<td>54700</td>
<td>69200</td>
<td>86000</td>
</tr>
<tr>
<td>1290</td>
<td>1560</td>
<td>24900</td>
<td>40700</td>
<td>65300</td>
<td>89800</td>
<td>11900</td>
<td>15600</td>
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<tr>
<td>1714</td>
<td>2470</td>
<td>38900</td>
<td>65900</td>
<td>10520</td>
<td>14260</td>
<td>20420</td>
<td>26740</td>
</tr>
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**Load radius**

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<td></td>
<td></td>
<td></td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 m</td>
<td>15100</td>
<td>23500</td>
<td>37500</td>
<td>53500</td>
<td>74400</td>
<td>95100</td>
<td>12000</td>
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<tr>
<td>10470</td>
<td>16700</td>
<td>26900</td>
<td>40200</td>
<td>60000</td>
<td>81800</td>
<td>10700</td>
<td>14100</td>
</tr>
<tr>
<td>7670</td>
<td>3480</td>
<td>5090</td>
<td>6200</td>
<td>8900</td>
<td>12090</td>
<td>16750</td>
<td>22350</td>
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