STANDARD EQUIPMENT

- ISO Standard cabin
- All-weather steel cab with 360° visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding-fold-in front window
- Sliding side window (LH)
- Lockable door
- Hot & cool box
- Storage compartment & Ash tray
- Transparent cabin roof cover
- Radios & USB player
- Handsfree mobile phone system with USB
- 12 volt power outlet with 24V DC to 12V DC converter
- Sun visor
- Computer aided power optimization (New CAPO System)
- 3-gear mode, 2-work mode, User mode
- Auto deceleration & one-touch deceleration system
- Auto warm-up system
- Auto overheat prevention system
- Automatic climate control
- Air conditioner & heater
- Defroster
- Self-diagnostic system
- Starting Aid (air grid heater for cold weather)
- Centralized monitoring
- LCD display
- Engine speed or Trip meter/Accel.
- Clock
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Oil temperature gauge
- Warnings
- Check engine
- Overload
- Communication error
- Low battery
- Air cleaner clogging
- Indicators
- Max power
- Low speed/high speed
- Fuel warmer
- Auto idle
- Three suitable rearview mirrors
- Mechanical suspension seat with heater
- Pilot-operated slidable joystick
- Console box height adjust system
- Four front working lights, one rear light
- Electric horn
- Batteries (2 x 12V x 200 AH)
- Battery master switch
- Automatic swing brake
- Battery master switch
- Removable clean-out dust net for cooler
- Three outside rearview mirrors
- Tool kit
- Rearview camera
- Adjustable air suspension seat
- Adjustable air suspension seat with heater
- Mechanical suspension seat
- Pattern change valve (2 patterns)
- Hi-mate (Remote Management System)
- Air compressor

OPTIONAL EQUIPMENT

- Fuel filler pump (60 Litres)
- Beacon lamp
- Safety lock valve for boom cylinder with overload warning device
- Safety lock valve for arm cylinder
- Windshield-washing piping kit (breaker, etc.)
- Double-acting piping kit (breaker, etc.)
- Quick coupler
- Arms
  - 2.6 m, 8’ 6”
  - Counterweight
  - 7.000kg (15,430lb)
  - 8.1000kg (17,860lb)
- Climate control
- Air conditioner only
- Heater only
- Cabin FOPS (Falling Object Protective Structure)
- POPS (Falling Object Guard)
- Cabin ROPS (ISO 12117-2)
- ROPS (Roll Over Protective Structure)
- Cabin guard front
  - Wire net
  - Fine net
- Cabin roof-steel cover
- Cabin lights
  - Cabin front window rain guard
- Track shoes
  - Triple grouser shoe (Heavy duty 600mm, 24”)
  - Triple grouser shoe (Heavy duty 700mm, 28”)
  - Triple grouser shoe (500mm, 20”)
  - Triple grouser shoe (750mm, 30”)
  - Double grouser shoe (600mm, 24”)
  - Double grouser shoe (800mm, 28”)
  - Double grouser shoe (900mm, 32”)
  - Sensifull track guard
  - Full track guard
- Laser frame-under cover (Additional)
- Pre-heating system, coolant
- Tool kit
- Receiver camera
- Seat
  - Adjustable air suspension seat
  - Adjustable air suspension seat with heater
- Mechanical suspension seat
- Pattern change valve (2 patterns)
- Hi-mate (Remote Management System)
- Air compressor

* 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.

PLEASE CONTACT

www.hyundai-ce.com
2013. 05 Rev. 0

*Photo may include optional equipment.
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!

**Undercarriage**
- Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps
- Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner

**Hydraulic System Improvements**
- New patented hydraulic control 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 and boom-down flow regeneration system for added speed and efficiency

**Engine Technology**
- Proven / reliable, fuel-efficient Cummins Tier III QSM11 engine
- Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
- Low noise / Auto engine overheat feature / Anti-restart feature

**Pump Compartment**
- Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps
- New compact solenoid block equipped with 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

**Enhanced Operator Cab**
- Improved Visibility
  - Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation
  - Larger right side glass, now one piece, for better right visibility
  - Safety glass windows on all sides - less expensive than (polycarbonate) and won’t scratch or fade
  - Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

- 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 Suspension Seat / Console Assembly
  - Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new dark styling
  - Heated suspension (standard) or optional air ride suspension with heat
  - New joystick consoles - now adjustable in height by way of dial at bottom
  - Adjustable arm rests - turn dial to raise or lower for optimum comfort

- Advanced 7" Color Cluster
  - New color LCD display with easy to read digital gauges for hydraulic 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 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
  - RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support

- Undercarriage
  - Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps
  - Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner
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.

*Photo may include optional equipment.

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, optional 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 - Friendly Cluster

Operator Comfort

In 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. Other preference settings that add to overall operator comfort include the full automatic high capacity airconditioning system and the Radio / USB player.

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 USB player, AM/FM stereo, 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.

Wide Cabin with Excellent Visibility

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

*Photo may include optional equipment.

**Computer Aided Power**

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO (Computer Aided Power Optimization) system, flow for the job at hand. Operator 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 temperatures and fuel level. 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.

**Power Mode**

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. Three unique power modes provide the operator with custom power, speed and fuel economy.

**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 for the job at hand.

**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 the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.
9 series is designed for maximum performance to keep the operator working productively.

**Performance**

9 series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.

The optional ROPS (Roll Over Protective Structure) cab can be equipped to enhance operator safety.

**CUMMINS QSL Engine**

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

**Heavy-duty strength**

Everyone who’s ever worked on construction equipment knows, there is no substitute for power and durability. The QSL handles the toughest loads and the roughest work conditions. At the same time, it delivers better fuel economy, has better cold starting capability and is up to 50% quieter in operation. Plus, the heavy-duty design of the QSL engine block and components such as articulated pistons, enhanced camshaft and roller cam followers, viscous damper and high capacity lube system add reliability and durability you can count on every day, year after year. Both fuel-efficiency and response are significantly enhanced with the Cummins high pressure common rail fuel system. The system delivers high pressure injection, independent of engine speed, for optimum performance and flexibility at every rpm.

**Structure Strength**

The 9 series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests. The optional ROPS (Roll Over Protective Structure) cab can be equipped to enhance operator safety.

**Track Rail Guard & Adjusters**

Durable track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.

*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.

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, reducing the need for multiple service calls. Hi-mate saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.

Fuel Efficient

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

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.

Long-Life Components

9 series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), long-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 QSL
- **Type**: Water-cooled, 6-cylinder, 4-cycle Diesel, Turbocharged, Direct injection, Charge air cooled, Low emission.

- **Rated**:
  - 296 HP (222 kW)/ 1,850 rpm
  - 271 HP (202 kW)/ 1,850 rpm
  - 250 PS (185 kW)/ 1,850 rpm

- **Max. torque**: 340 kgf-m (2,520 lbf.ft) / 1,400 rpm

- **Bore X stroke**: 114.5 x 140 mm (4.5" x 5.5")

- **Discharge**: 8.900 cc (540 in3)

- **Battery**: 2 X 12V X 160AH

- **Coolant & Lubricant Capacity**
  - **Swing device-gear oil**: 5.3 US gal (6.9 UK gal)
  - **Engine oil**: 6.5 US gal (8.1 UK gal)
  - **Fuel tank**: 44.3 US gal (65.9 UK gal)

**.replaceAll()**

**HYDRAULIC SYSTEM**

- **Type**: Variable displacement piston pump
- **Rated flow**: 2 X 333 l/min (76.3 US gpm / 63.5 UK gpm)
- **Rated pressure**: 2 X 330 kgf/cm² (4,690 psi)
- **Servo valve**: Installed

**HYDRAULIC CYLINDERS**

- **No. of cylinder**: 2
- **Bore X stroke**: 180 x 250 mm (7.1" x 9.8")

**TRAVEL & STEERING**

- **Control**: 2 joysticks with one safety lever
- **Travel**: 180 x 250 mm (7.1" x 9.8")
- **Steering**: 200 x 300 mm (7.9" x 11.8")

**OPERATING FORCES**

- **Digging force (Approximate)**
  - **Type**: Triple gusset
  - **Size**: 600 (24")
  - **Force**: 42,600 kgf (93,920 lbf)
  - **Ground pressure**: 600 (24")
  - **Force**: 42,600 kgf (93,920 lbf)
  - **Ground pressure**: 600 (24")

**DRIVES & BRAKES**

- **Multiply hydraulic type**
- **Drive motor**: As per aspherical type
- **Reduction system**: Planetary reduction gear
- **Max. drawbar pull**: 22,400 kgf (50,000 lbf)
- **Max. travel speed (mph) / (m/s)**: 5.1 km/h (3.2 mph) / 1.4 km/h (0.9 mph)
- **Brake system**: Multi-wet disc

**ATTACHMENT**

- **Booms and arms are welded, a low-stress, full-box section design.**

**BUCKETS**

- **Capacity m³ (yd³)**
  - **Rated flow**: 2 X 333 l/min (76.3 US gpm / 63.5 UK gpm)
  - **Rated pressure**: 2 X 330 kgf/cm² (4,690 psi)

<table>
<thead>
<tr>
<th>Brand</th>
<th>Capacity m³ (yd³)</th>
<th>Weight kg (lb)</th>
<th>Boom Length mm (ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SAE</td>
<td>1.00 (0.33)</td>
<td>1,917 (4,230)</td>
<td>5700 (18' 9&quot;)</td>
</tr>
<tr>
<td>CECE</td>
<td>0.90 (0.30)</td>
<td>1,800 (3,960)</td>
<td>5400 (17' 7&quot;)</td>
</tr>
</tbody>
</table>

**Note:** Boom weight includes arm cylinder, piping, and pin

**CONFIGURATION**

- **Engine**: Cummins QSL
- **Rated power**: 192.2 HP (143 kW)
- **Rated speed**: 1800 rpm

**DIAGNOSIS**

- **System**: Electrical, Oil type

**CONTROL**

- **Pilot control**: 2 joysticks with one safety lever
- **Travelling and steering**: 2 joysticks with pedals
- **Engine throttle**: Electric, Dial type
**Dimensions & Working Range**

**RA30LC-9 DIMENSIONS**

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Track gauge</td>
<td>3,415 (11' 2&quot;)</td>
</tr>
<tr>
<td>Min. ground clearance</td>
<td>3,190 (10' 5&quot;)</td>
</tr>
<tr>
<td>Overall height of cab</td>
<td>2,740 (8' 12&quot;)</td>
</tr>
<tr>
<td>Tumbler distance</td>
<td>555 (1' 10&quot;)</td>
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### Track gauge
- Length: 3,415 (11' 2")
- Min. ground clearance: 3,190 (10' 5")
- Overall height of cab: 2,740 (8' 12")
- Tumbler distance: 555 (1' 10")

**Lifting Capacity**

**RA30LC-9**

**Dimensions & Working Range**

**RA30LC-9 WORKING RANGE**

<table>
<thead>
<tr>
<th>Boom length</th>
<th>6,500 (21' 4&quot;)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arm length</td>
<td>2,600 (8' 6&quot;)</td>
</tr>
<tr>
<td>Max. digging reach</td>
<td>10,000 (33' 0&quot;)</td>
</tr>
<tr>
<td>Max. digging reach on ground</td>
<td>10,000 (33' 0&quot;)</td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>6,870 (22' 5&quot;)</td>
</tr>
<tr>
<td>Max. digging depth (2' level)</td>
<td>6,050 (20' 0&quot;)</td>
</tr>
<tr>
<td>Max. vertical wall digging depth</td>
<td>6,000 (20' 0&quot;)</td>
</tr>
<tr>
<td>Max. digging height</td>
<td>10,710 (35' 3&quot;)</td>
</tr>
<tr>
<td>Max. dumping height</td>
<td>7,480 (24' 6&quot;)</td>
</tr>
<tr>
<td>Min. swing radius</td>
<td>4,530 (14' 10&quot;)</td>
</tr>
</tbody>
</table>

1. Lifting capacity is based on SAE J1007, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 21% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The load point is a hook located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

**Load point height**

<table>
<thead>
<tr>
<th>Load point height (m)</th>
<th>At max. reach</th>
</tr>
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<tbody>
<tr>
<td>1.5 m (5 ft)</td>
<td>capacity</td>
</tr>
<tr>
<td>3.0 m (10 ft)</td>
<td>7,150 kg</td>
</tr>
<tr>
<td>4.5 m (15 ft)</td>
<td>7,900 kg</td>
</tr>
<tr>
<td>6.0 m (20 ft)</td>
<td>8,650 kg</td>
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<tr>
<td>7.5 m (25 ft)</td>
<td>9,400 kg</td>
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<td>9.0 m (30 ft)</td>
<td>10,000 kg</td>
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**Load radius**

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<th>Capacity (kg)</th>
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</tr>
<tr>
<td>1.0 m</td>
<td>7,450</td>
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<tr>
<td>1.5 m</td>
<td>7,750</td>
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<tr>
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