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
- Lockable door
- Hot & cool box
- Storage compartment & Ashtray
- Transparent cabin roof-cover
- CDMPS Play
- Handbrake mobile phone system with USB
- Sun visor
- Computer aided power optimization (New CAPO) system
- 3-power mode, 2-work mode, user mode
- Auto de氝loration & one-touch de氝loration system
- Auto warm-up system
- Auto overload prevention system
- Automatic climate control
- Full automatic temperature controller
- Defroster
- Self-diagnosis system
- Starting Aid (air grid heater) for cold weather
- Centralized monitoring
  - LCD display
  - Engine speed or Trip meter/Acceler.
  - Clock
  - Gauges
    - Fuel level gauge
    - Engine coolant temperature gauge
    - Hyd. oil temperature gauge
    - Warnings
      - Check engine
      - Overload
      - Communication error
      - Low battery
    - Air cleaner clogging
    - Indication
      - Max power
      - Low speed/high speed
      - Fuel warmer
      - Auto idler
      - Three outside mirror/mirror
      - Fully adjustable suspension seat with seat belt
      - Front operated seat belt
      - Demand ton height adjust system
      - Four front working lights, one rear light
      - Electric light
      - Batteries (2 x 12V x 200 AH)
      - Battery heater switch
      - Removable clean-out dust net for cooler
      - Automatic Rising/rise
      - Automatic fuel line deaeration
      - Fuel pre-filter with fuel warmer
      - Boom holding system
      - Arm holding system
      - Counterweight (9,200kg, 20,280lb)
      - Track shoes (600mm, 24”)
      - Track rail guard
      - Accumulator for lowering work equipment
      - Electric transducer
      - Lower frame under cover (Normal)
      - Air-suspension seat
    - Travel alarm

OPTIONAL EQUIPMENT

- Fuel filter pumps (50 Units)
- curtains
- Safety lock valve for boom cylinder with overload sensing device
- Safety lock valve for arm cylinder
- Single-acting piping (1 stage up)
- Double-acting piping (1 stage down)
- Quick coupler
- 12-volt power outlet (24V DC or 12V DC converter)
- Beacon
  - Heavy duty boom (7,060mm, 23’2”)
  - Heavy duty arm (3,380mm, 11’1”)
  - Super short arm (2,400mm, 7’10”)
  - Long boom (9,000mm, 29’6”)
  - Long arm (5,850mm, 19’2”)
- Climate control
  - Air conditioner only
  - Heater only
  - Air conditioner & heater manually
- Cabin FOPS/FOG (ISO/DIS 10262)
  - FOPS (Falling Object Protective Structure)
  - FOG (Falling Object Guard)
- Cabin roof-steel cover
- Cabin lights
- Cabin side window rear-guard
- Track shoes
  - Triple grousers shoe (700mm, 28”)
  - Triple grousers shoe (750mm, 30”)
  - Triple grousers shoe (800mm, 32”)
  - Triple grousers shoe (850mm, 34”)
  - Double grousers shoe (600mm, 24”)
  - Double grousers shoe (700mm, 28”)
  - Full track rail guard
  - Lower frame under cover (Additional)
- Pre-heating system, coolant
- Operator seat
- Rearview camera
- Seat
  - Mechanical suspension seat
  - Air-suspension seat with heater
  - Air-suspension seat
  - Pattern change valve (2 patterns)
  - Oil washed air cleaner
  - Remote (Remote Management System)

Please contact www.hyundai-ce.com 2010.02 Rev. 0
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

Engine Technology
- Proven, reliable, fuel efficient Cummins Tier 8 QSM11 engine
- Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
- Low noise / Auto engine overload feature / Anti-restart feature

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

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 valves, 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, new 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. New with new sleek 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 oil temperature, water temperature, and fuel
  - Simplified design makes adjustment and diagnostic 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/CDMA technology to ultimately provide better customer service and support
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

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 CD/MP3 radio.

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.

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.

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.
Precision

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

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.

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.

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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.

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*Photo may include optional equipment.
9 series is designed for maximum performance to keep the operator working productively.

Performance

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

Track Rail Guard & Adjusters

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

CUMMINS QSM11 Engine

The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSM11 diesel engine is built for power, reliability, efficiency and reduced emissions.

Heavy-duty strength

The QSM11 from Cummins. With advanced electronics. Higher torque. Better throttle response. Shorter service times. Longer maintenance intervals. Increased fuel economy. Decreased noise. Diagnostics. Prognostics. Engine protection, and more. All wrapped up in something we call the Quantum system. The QSM11 is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold allows for heat expansion and contraction, eliminating metal stress fractures. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the QSM11 is built stronger to last longer.

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

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 fan clutch, the variable speed remote fan, three-stage auto decel system and the new economy mode help to 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, 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.

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 extended lubricant bush life & ultra high molecular weight polymer shim (wear resistant, noise reducing), extended-life hydraulic filters (1,000hr), long-life hydraulic oil (5,000hr), more efficient cooling systems and integrated preheating systems to long extend service intervals, minimize operating costs and reduce machine down time.
**Specifications**

**ENGINE**
- **MODEL:** CUMMINS QS111
- **Type:** Water-cooled, 4-cylinder Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission

**Rated**
- **SAE J1995 (gross):** 375HP (276kW) / 1,900rpm
- **ISO:** 342HP (255kW) / 1,900rpm

**Swing**
- **Max. torque:** 2 X 360 L/min (95.1 US gpm/79.2 UK gpm)
- **Pilot pressure:** 350 kgf/cm² (5,070 psi)
- **Swing device - gear oil:** 2
- **Final drive (each) - gear oil:** 5
- **Hydraulic system (including tank):** 5

**COOLANT & LUBRICANT CAPACITY**
- **Refilling:** Water
- **Engine coolant:** 1,800 liters (482 US gal)
- **Engine oil:** 230 liters (60.6 US gal)
- **Swing device - gear oil:** 2
- **Final drive (each) - gear oil:** 5
- **Swing bearing lubrication:** 1
- **Swing brake:** 1
- **Swing speed:** 4.0 rpm

**HYDRAULIC SYSTEM**
- **Main Type:** Variable displacement tandem axis pump
- **Max. flow:** 3,000 liters (792 US gal)
- **Sub-pump for pilot circuit:** Gear pump

**POWER BOOST**
- **Pilot control:** Steering, Swing and Arm

**ATTACHMENT**
- **Booms and arms are welded with a low-stress, full-box section design.**
- **6,550mm (21' 6''), 7,060mm (23' 2''), 9,000mm (29' 6'') boom and 2,400mm (7' 10''), 2,900mm (9' 6''), 3,880mm (12' 1''), 4,000mm (13' 1''), 5,850mm (19' 2'') arms are available.

**OPERATING WEIGHT (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight (kg)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating</td>
<td>57,100 (126,290)</td>
<td>57,320 (126,400)</td>
</tr>
<tr>
<td>Without</td>
<td>50,040 (110,000)</td>
<td>57,760 (127,300)</td>
</tr>
<tr>
<td>Ground pressure</td>
<td>170.6 (21.6)</td>
<td>17,400 (39,680)</td>
</tr>
<tr>
<td>Weight arm cylinder</td>
<td>251.1 (45.2)</td>
<td>255.5 (56.0)</td>
</tr>
<tr>
<td>Bucket arm cylinder</td>
<td>255.5 (56.0)</td>
<td>255.5 (56.0)</td>
</tr>
</tbody>
</table>

**DRIVES & BRAKES**
- **Swing motor:** Axial piston motor
- **Swing reduction:** X-leg type
- **Swing bearing lubrication:** Grease-bathed
- **Swing brake:** Triple
- **Swing speed:** 9.0 rpm

**OPERATING FORCE (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Type</th>
<th>Weight (kg)</th>
<th>Weight (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triple</td>
<td>2,040 (4,500)</td>
<td>2,295 (5,080)</td>
</tr>
<tr>
<td>Double</td>
<td>2,295 (5,080)</td>
<td>2,295 (5,080)</td>
</tr>
</tbody>
</table>

**DIGGING FORCE**
- **Bucket digging force:** ISO
- **Arm force:** ISO

**BUCKETS**
- **All buckets are welded with high-strength steel.**
- **Rock-heavy duty bucket**: Suitable for materials with density of 2,000 kg/m³ (1,370 lb/ft³) or less
- **For materials with density of 1,600 kg/m³ (2,000 lb/ft³) or less**: Suitable for materials with density of 1,600 kg/m³ (2,000 lb/ft³) or less

**Pod Control**
- **Pilot control:** Steering, Swing and Arm
- **Arm Boost**: ISO

**Note:** Bucket weight includes cylinder, piping, and pin
- **Arm weight includes bucket cylinder, linkage, and pin**

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**SAE**
- **SAE heaped m³ (yd³):** 2.43 (3.18)

**Operating weight, including 7,060mm (23' 2'') boom, 3,380mm (11' 1'') arm, SAE heaped 2.15m³ (2.81 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.**

**Recommended mm (in) for SAE**
- **Boom length:** 3,380mm (11' 1'')
- **Arm length:** 2,400mm (7' 10'')

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**No. of carrier rollers on each side**

- **Boom: 1,220 (4.82 ft)**
- **Arm: 2,200 (7.18 ft)**
- **Bucket: 3,030 (10.2 ft)**

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**Operating weight (kg):**
- **Without:**
  - 106.040 (233,460)
  - 107.230 (236,070)
  - 107.830 (237,810)
  - 108.420 (239,160)
- **With:**
  - 106.040 (233,460)
  - 107.230 (236,070)

---

**SAE heaped m³ (yd³):**
- **1.80 (2.35)**
- **2.040 (80.3)**

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**Swing System**
- **Swing motor:** Axial piston motor
- **Swing reduction:** Planetary gear reduction
- **Swing bearing/lubrication:** Grease-bathed
- **Swing brake:** Multi-vee belt
- **Swing speed:** 4.0 rpm
Dimensions & Working Range

<table>
<thead>
<tr>
<th>Feature</th>
<th>7,000 mm (27.2 ft)</th>
<th>6,500 mm (21.6 ft)</th>
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<tbody>
<tr>
<td>Boom length</td>
<td>2,490 (8' 3&quot;)</td>
<td>2,490 (8' 3&quot;)</td>
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<tr>
<td>Arm length</td>
<td>2,900 (9' 6&quot;)</td>
<td>2,900 (9' 6&quot;)</td>
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<tr>
<td>Overall length</td>
<td>12,270 (40' 3&quot;)</td>
<td>12,270 (40' 3&quot;)</td>
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<tr>
<td>Overall height</td>
<td>5,930 (19' 5&quot;)</td>
<td>5,930 (19' 5&quot;)</td>
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<tr>
<td>Overall width</td>
<td>3,340 (10' 11&quot;)</td>
<td>3,340 (10' 11&quot;)</td>
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<tr>
<td>K: Track shoe</td>
<td>703 (24&quot;)</td>
<td>703 (24&quot;)</td>
</tr>
<tr>
<td>L: Overall width</td>
<td>3,440 (11' 3&quot;)</td>
<td>3,440 (11' 3&quot;)</td>
</tr>
</tbody>
</table>

R480LC-9 WORKING RANGE

<table>
<thead>
<tr>
<th>Feature</th>
<th>7,000 mm (27.2 ft)</th>
<th>6,500 mm (21.6 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>2,490 (8' 3&quot;)</td>
<td>2,490 (8' 3&quot;)</td>
</tr>
<tr>
<td>Arm length</td>
<td>2,900 (9' 6&quot;)</td>
<td>2,900 (9' 6&quot;)</td>
</tr>
<tr>
<td>Max. digging</td>
<td>11,590 (37' 9&quot;)</td>
<td>11,590 (37' 9&quot;)</td>
</tr>
<tr>
<td>Max. digging</td>
<td>10,940 (35' 9&quot;)</td>
<td>10,940 (35' 9&quot;)</td>
</tr>
<tr>
<td>Max. digging</td>
<td>8,950 (29' 1&quot;)</td>
<td>8,950 (29' 1&quot;)</td>
</tr>
<tr>
<td>Max. digging</td>
<td>7,190 (23' 7&quot;)</td>
<td>7,190 (23' 7&quot;)</td>
</tr>
<tr>
<td>Max. vertical</td>
<td>5,980 (19' 7&quot;)</td>
<td>5,980 (19' 7&quot;)</td>
</tr>
<tr>
<td>Max. dumping</td>
<td>10,580 (34' 5&quot;)</td>
<td>10,580 (34' 5&quot;)</td>
</tr>
<tr>
<td>Min. swing radius</td>
<td>5,090 (16' 8&quot;)</td>
<td>5,090 (16' 8&quot;)</td>
</tr>
</tbody>
</table>

Lifting Capacity

<table>
<thead>
<tr>
<th>Load point height</th>
<th>3.0 m (-10.0 ft)</th>
<th>4.5 m (-15.0 ft)</th>
<th>6.0 m (0.0 ft)</th>
<th>7.5 m (25.0 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity (m³)</td>
<td>1.7270 (57.50)</td>
<td>2.1780 (74.00)</td>
<td>2.6210 (90.00)</td>
<td>3.1500 (103.00)</td>
</tr>
<tr>
<td>Reach (m)</td>
<td>1.7270 (57.50)</td>
<td>2.1780 (74.00)</td>
<td>2.6210 (90.00)</td>
<td>3.1500 (103.00)</td>
</tr>
</tbody>
</table>

1. Lifting capacity is based on SAE 1097, ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% 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.
5. (*) indicates the load limited by hydraulic capacity.
### Lifting Capacity

<table>
<thead>
<tr>
<th>Load point height (m)</th>
<th>Load radius (m)</th>
<th>Capacity (t)</th>
<th>Reach (m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 m</td>
<td>4.5 m (11' 6&quot;)</td>
<td>5.6</td>
<td>14.8</td>
</tr>
<tr>
<td>2.0 m</td>
<td>6.0 m (19' 8&quot;)</td>
<td>6.7</td>
<td>16.7</td>
</tr>
<tr>
<td>2.5 m</td>
<td>6.5 m (21' 6&quot;)</td>
<td>7.7</td>
<td>18.5</td>
</tr>
<tr>
<td>3.0 m</td>
<td>7.0 m (22' 9&quot;)</td>
<td>8.7</td>
<td>20.2</td>
</tr>
<tr>
<td>3.5 m</td>
<td>7.5 m (23' 8&quot;)</td>
<td>9.7</td>
<td>21.9</td>
</tr>
</tbody>
</table>

1. Lifting capacity is based on SAE J1097, 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 lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.