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 & Ashtray
Transparent cabin roof cover
CD/MP3 Player
Handbrake mobile phone system with USB
Sun visor

Computer aided power optimization (New CAP0) system
3-power mode, 3-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-diagnosis system
Starting Aid (air grid heater) for cold weather
Centralized monitoring

LCD display
Engine speed or Trip meter/Actual. Clock

Gauges
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge

Warnings
Check Engine
Overload
Communication error
Low battery
Air cleaner clogging
Indicators
Max power
Low speed/high speed
Fuel warning
Auto idle

Door and cab locks, one key

Two outside rearview mirrors

All available equipment except with seat belt

Ped-operated sidle l system
Console box height adjust system

Three from working lights

Electric horn

Battery (1 x 12V x 160 AH)
Battery master switch

Removable clean-out screen for oil cooler

Automatic swing brake

Returnable reservoir tank

Fuel filter with fuel warmer

Boom holding system

Arm holding system

Counterweight (6,500kg, 14,330lbs)
Track shoes

Triple grousers shoe (700mm, 28")
Triple grousers shoe (750mm, 30")
Triple grousers shoe (800mm, 32")
Triple grousers shoe (900mm, 36")
Lower frame under cover (additional)

Hydraulic system coolant
Fuel filter
Fuel filter

Operator suit

Rearview camera

Seat

Adjustable air suspension seat
Adjustable air suspension seat with heater
Mechanical suspension seat with heater

Pattern change valve (2 patterns)

Hi-mate (Remote Management System)

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.

All imperial measurements rounded off to the nearest pound or inch.

OPTIONAL EQUIPMENT

Fuel filter pump (DG Liner)
Beacon lamp
Safety lock valve for boom cylinder with overload warning device
Safety lock valve for arm cylinder

Window-washing scraping kit (scraper, etc.)
Double-acting piping kit (clamshell, etc.)
Quick coupler

Travel alarm

Booms
6.15m, 20’ 2”
6.15m, 20’ 4”
6.15m, 20’ 4” Heavy duty
6.8m, 22’ 4”

Arms
2.1m, 6’ 7”
3.2m, 10’ 6”
3.2m, 10’ 6” Heavy duty
3.5m, 11’ 6”
4.3m, 14’ 1”
5.10m, 16’ 9”

Climate control
Air conditioner only
Heater only

Cabin FOPS/FOG (ISO/DIS 10262)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
Cabin roof steel cover

Cabin lamp
Cabin front window rain guard

Track shoes

6.15m, 20’ 2"
6.5m, 21’ 4”
6.5m, 21’ 4” Heavy duty
8.6m, 28’ 3”

Arms
2.5m, 8’ 2”
3.2m, 10’ 6”
3.2m, 10’ 6” Heavy duty
3.90m, 12’ 10”
4.30m, 14’ 1”

Air conditioner or heater
Defroster
Self-diagnosis system
Starting Aid (air grid heater) for cold weather
Centralized monitoring

LCD display

Engine speed or Trip meter/Actual. Clock

Gauges
Fuel level gauge
Engine coolant temperature gauge

Warnings
Check Engine
Overload
Communication error
Low battery

Indicators
Max power

Fuel filter & Fuel warmer

Auto idle

Door and cab locks

Two outside rearview mirrors

Air cleaner clogging

Adjustable air suspension seat
Adjustable air suspension seat with heater
Mechanical suspension seat with heater

Hi-mate (Remote Management System)

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.

All imperial measurements rounded off to the nearest pound or inch.
An operator who takes pride in his work is a happier, more productive operator. 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 a Hyundai!

**Pride at Work**

**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 3 QSC 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 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 piston pumps
- New compact solenoid block equipped with 3 solenoid valves, 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, now one piece, for better right visibility
  - Safety glass windows on all sides - less expensive than (polycarbonate) and won’t scratch or fade
  - Closable 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

**Pump Compartment**
- Improved Suspension Seat / Console Assembly
  - Ergonomic joysticks with auxiliary control buttons for attachment use. Now 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 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.
Preference

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

Operator - Friendly Cluster

In a Dash 9 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.

Operator Comfort

In a Dash 9 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 Dash 9 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.
**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.

**Smooth Operator**

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a Dash 9 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.
Dash 9 is designed for maximum performance to keep the operator working productively.

**Performance**

**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 engines 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 Dash9 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.

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

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

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.

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, three-stage auto decel system and the new economy mode, help to conserve fuel and reduce the impact on the environment.
Specifications

**HYDRAULIC SYSTEM**

**SPOON PUMP**
- Type: Two variable displacement piston pumps
- Rated flow: 2.45 1.56 1.04 (1.5LPM)
- Sub-pump for pilot circuit: Gear pump
- Two variable displacement piston pumps

**COOLANT & LUBRICANT CAPACITY**

<table>
<thead>
<tr>
<th>Type</th>
<th>Capacity m³</th>
<th>Weight kg</th>
<th>Weight lb</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gear pump</td>
<td>210</td>
<td>46.2</td>
<td>107.0</td>
</tr>
<tr>
<td>Swing device-gear oil</td>
<td>130</td>
<td>28.8</td>
<td>63.6</td>
</tr>
<tr>
<td>Swing motor</td>
<td>140</td>
<td>30.9</td>
<td>68.2</td>
</tr>
<tr>
<td>Swing control</td>
<td>220</td>
<td>48.5</td>
<td>107.0</td>
</tr>
<tr>
<td>Swing bearing lubrication</td>
<td>210</td>
<td>46.2</td>
<td>107.0</td>
</tr>
<tr>
<td>Swing brake</td>
<td>210</td>
<td>46.2</td>
<td>107.0</td>
</tr>
</tbody>
</table>

**OPERATING WEIGHT (APPROXIMATE)**

<table>
<thead>
<tr>
<th>Boom Length</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,500 (21' 4&quot;)</td>
<td>2,220 (4,888)</td>
</tr>
<tr>
<td>8,600 (28' 3&quot;)</td>
<td>2,820 (6,228)</td>
</tr>
</tbody>
</table>

**ATTACHMENT**

- Booms and arms are welded, a low-stress, full-box section track frame. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

**DIGGING FORCE**

<table>
<thead>
<tr>
<th>Boom Length</th>
<th>Weight kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,500 (21' 4&quot;)</td>
<td>2,220 (4,888)</td>
</tr>
<tr>
<td>8,600 (28' 3&quot;)</td>
<td>2,820 (6,228)</td>
</tr>
</tbody>
</table>

**CONTROL**

- Pilot control: Two joysticks with one safety lever (L): swing and arm, (RH): Boom and bucket
- Towing and trawling: Two levers with pedals
- Engine throttle: Electric, Dual type
- Lights: Two lights mounted on the boom, one light mounted on the battery box
### Lifting Capacity

#### R380LC-9

**Rating over-front**

<table>
<thead>
<tr>
<th>Load Point</th>
<th>Rating</th>
<th>Lifting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rating over-side or 360 degree**

<table>
<thead>
<tr>
<th>Load Point</th>
<th>Rating</th>
<th>Lifting Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Load point length (ft) |

<table>
<thead>
<tr>
<th>Load point length (ft)</th>
<th>1.5 m (5.0 ft)</th>
<th>3.0 m (10.0 ft)</th>
<th>4.5 m (15.0 ft)</th>
<th>6.0 m (20.0 ft)</th>
<th>7.5 m (25.0 ft)</th>
<th>9.0 m (30.0 ft)</th>
<th>10.5 m (35.0 ft)</th>
<th>12.0 m (40.0 ft)</th>
<th>13.5 m (45.0 ft)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5 m (5.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.0 m (10.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.5 m (15.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.0 m (20.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.5 m (25.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.0 m (30.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.5 m (35.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.0 m (40.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>13.5 m (45.0 ft)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

---

1. Lifting capacity is based on SAE 10567, ISO 10567.
2. Lifting capacity 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.