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 windows(L/H)
Lockable door
Hot & cool box
Storage compartment & Ashtray
CD/MP3 Player
Handbrake mobile phone system with USB
Sun visor
Computer aided power optimization (New CAPO) system
3 power mode, 2 work mode, user mode
Auto deactivation & one-touch deactivation system
Auto warm-up system
Auto overheat prevention system
Automatic climate control
Air conditioner & heater
Defroster
Sunvisors system
Starting Aid (air-grid heater) for cold weather
Automated monitoring

LCD display
Engine speed or Trip meter/Accel.
Clock
Gauges
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge
Warning
Communication error
Low battery
Air cleaner clogging
Indicators
Power max
Low speed/High speed
Fuel warmer
Auto idle
Door and slab locks, one key
Two outside rearview mirrors
Mechanical suspension seat with heater
Foot-operated adjustable joystick
Console box height adjust system
Fuel front welding flange
Electric filter
Fuel pre-filter (35 L/min)
Beacon lamp
Safety lock valve for boom cylinder with overload warning device
Safety lock valve for arm cylinder
Single-acting piping kit (breaker, etc.)
Double-acting piping kit (clamshell, etc.)
Quick coupler
Boom holding system
Arm holding system
Counterweight (2,950kg, 6,500lb)
Track shoes (600mm, 24")
Track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover (Normal)

STANDARD EQUIPMENT

Fuel filler pump (35 L/min)

OPTICAL EQUIPMENT

Fuel filter pump (35 L/min)
Section light
Side view mirror
Boom holding system with overload warning device

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.

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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 Mitsubishi Tier III D04FD-TAA 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 axial piston pumps
- New compact solenoid block equipped with 3 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter controls 2 speed travel, power boost, boom priority, safety lock

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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
  - Crossable sunshade for operator convenience / Reduced front window frame 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 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

- Machine Walk-Around
- 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

*Photo may include optional equipment.
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.

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.

Operator Comfort

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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, 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.
**Precision**

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

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.

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.

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.

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.

*Photo may include optional equipment.
Performance

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

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.

Easy to maintain engine components

The cooling and preheating system are provided for optimum and immediate operation, guaranteeing longer life for the engine and hydraulic components. Servicing of the engine and hydraulics is considerably simplified due to total accessibility.

Mitsubishi D04FD-TAA

The Tier III, four cylinder, 4 cycle, turbo-charged, charge air cooled, Mitsubishi D04FD-TAA 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 D04FD-TAA 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 D04FD-TAA engine block and components add reliability and durability you can count on every day, year after year.

Both fuel-efficiency and response are significantly enhanced with the Mitsubishi high pressure common rail fuel system. The system delivers high pressure injection, independent of engine speed, for optimum performance and flexibility at every rpm.
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 deisel 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.

*Photo may include optional equipment.
Specifications

**ENGINE**

- **Type**: Mitsubishi D04FD-TAA
- **Rated flow**:
  - SAE 6271/1 (gross)
  - Two variable displacement piston pumps
    - 2 X 160L/min (44.4 US gpm / 37.0 UK gpm)
- **Rated pressure**:
  - Gear pump
- **Starting Motor**: 24V-50Amp
- **Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.**

**HYDRAULIC SYSTEM**

- **Main Pump**: Two variable displacement piston-pumps
- **Pilot circuit**: Gear pump
- **Hydraulic motors**:
  - SAE
  - ISO
- **Swing device-gear oil**: Grease-bathed
- **Swing speed**: 11.3 rpm

**HYDRAULIC MOTORS**

- **Travel**:
  - Two fixed displacement axial piston motors with brake valve and parking brake
- **Swing**:
  - Axial piston motor with automatic brake

**RELIABILITY SETTING**

- **Implement circuits**
  - Counterweight
  - Gear oil
- **Swing device-gear oil**: Grease-bathed
- **Swing motor**: Two fixed displacement axial piston motors

**OPERATING WEIGHT (APPROXIMATE)**

Operating weight, including 5,100mm (16' 9") boom, 2,600mm (8' 6") arm, SAE heaped 0.35 (4.98) lbf

**HYDRAULIC CYLINDERS**

- **Boom**:
  - 2,130 X 1,020 mm (83.9" X 40.2")
  - 4,980 kgf (11,100 lbf)
- **Arm**:
  - 2,130 X 865 mm (83.9" X 34.0")
  - 2,600 kgf (5,730 lbf)
- **Bucket**:
  - 2,600 kgf (5,730 lbf)

**MAJOR COMPONENT WEIGHT**

- **Oppositestructure**: 4,980 kg (10,990 lbf)
- **Counterweight**: 2,600 kg (5,730 lbf)
- **Arm length (16' 9") boom (with arm cylinder)**: 1,250 kg (2,760 lbf)
- **Hydraulic adjustable boom (with arm cylinder)**: 1,780 kg (3,930 lbf)

**OPERATING WEIGHT**

- **Shovel Type**:
  - 500 (20")
  - 600 (24")
  - 700 (30")
  - 800 (32")

**BUCKETS** All buckets are welded with high-strength steel.

- **Capacity**:
  - 5,100 (16' 9") Mono Boom
  - 5,100 (16' 9") Hydraulic Adjustable Boom

**ATTACHMENT**

- **Power Boost**
  - 2,600 (8' 6") Arm
  - 3,100 (10' 2") Arm

**PILOT CONTROL**

- **Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)**
- **Arm weight includes boom cylinder, linkage, and pin**

**DESIGN**

- **37x247**
- **37x531**
- **37x742**

**COOLANT & LUBRICANT CAPACITY**

- **Swing Motor**: 350 kgf (770 lbf)
- **Swing oil**: 2,600 kgf (5,730 lbf)

**RELATING SPECIFICATIONS**

- **Operating weight**: 128 PS (94 kW)/ 2,000 rpm
- **Rated flow**:
  - Twin, 115 ps, 330 kgf/cm
  - Twin, 115 ps, 330 kgf/cm

**SWING SYSTEM**

- **Swing motor**: Two fixed displacement axial piston motors
- **Swing reduction**: Planetary gear reduction
- **Swing bearings/gear oil**: Grease-bathed
- **Swing brake**: Multi-vest disc
- **Swing speed**: 11.3 rpm

**OPERATING WEIGHT**

- **Length**: 2,200 (7' 3") Arm
- **Width**: 2,600 (8' 6") Arm
- **Capacity**: 5,100 (16' 9") Mono Boom
- **Weight**: 770 (1,760)
- **Recommended mm (in):** 3,100 (10' 2") Arm

**DVAR**

- **Rated pressure**:
  - 40 kgf/cm² (580 lbf/in²)
  - 330 kgf/cm² (4,980 psi)
- **Rated flow**:
  - 153 kgf/cm² (2,230 lbf/in²)
  - 153 kgf/cm² (2,230 lbf/in²)
- **Rated pressure**:
  - 550 kgf/cm² (8,000 lbf/in²)
  - 550 kgf/cm² (8,000 lbf/in²)

**DRIVES & BRAKES**

- **Driven method**: Fully hydrostatic type
- **Drive motor**: Axial piston motor, in-shoe design
- **Reduction system**: Planetary reduction gear
- **Max. drawbar pull**: 17,000 kgf (37,500 lbf)
- **Max. travel speed (high) / (low)**:
  - 5.5 km/h (3.4 mph) / 3.2 km/h (2.0 mph)

**CONTROL**

- **Pilot control**:
  - Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)

**COOLANT & LUBRICANT CAPACITY**

- **Swing Motor**: 350 kgf (770 lbf)
- **Swing oil**: 2,600 kgf (5,730 lbf)

**NOTES**

- **Engine throttle**: Mitsubishi D04FD-TAA
- **Pilot control**: Traveling and steering
- **Main pump**: Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

**ATTACHMENT**

- **Boom and arms are welded, a low-stress, full-box section design. 5.1m (16' 9") boom, 5.1m (16' 9") hydraulic adjustable boom and 2.20m (7' 3") , 2.60m (8' 6") , 3.10m (10' 2") arms are available.**

**DIGIT FORCE**

- **Boom Length**: 2,200 (7' 3") Arm
- **Length**: 2,600 (8' 6") Arm
- **Weight**: 3,100 (10' 2") Arm

**BUCKETS**

- All buckets are welded with high-strength steel.

**CONTROL**

- **Pilot control**: Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
- **Travelling and steering**: Two levers with pedals
- **Engine throttle**: Electric, Dial type
- **Lights**: Two lights mounted on the boom
- **Two on the upper frame**

**POWER BOOST**

- **Boom length**: 2,600 (8' 6") Arm
- **Arm length**: 3,100 (10' 2") Arm

**NOTES**

- **Pilot control**:
  - Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
- **Swing motor**: Two fixed displacement axial piston motors
- **Swing reduction**: Planetary gear reduction
- **Swing bearings/gear oil**: Grease-bathed
- **Swing brake**: Multi-vest disc
- **Swing speed**: 11.3 rpm
### Dimensions & Working Range

**R180LC-9 DIMENSIONS**

<table>
<thead>
<tr>
<th>Meas</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
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<td>2,200 (7' 3&quot;)</td>
</tr>
<tr>
<td>Arm length</td>
<td>mm (ft in)</td>
<td>2,200 (7' 3&quot;)</td>
</tr>
<tr>
<td>Overall length</td>
<td>mm (ft in)</td>
<td>2,600 (8' 6&quot;)</td>
</tr>
<tr>
<td>Overall height of boom</td>
<td>mm (ft in)</td>
<td>3,100 (10' 2&quot;)</td>
</tr>
<tr>
<td>Min. ground clearance</td>
<td>mm (ft in)</td>
<td>460 (1' 6&quot;)</td>
</tr>
<tr>
<td>Track gauge</td>
<td>mm (ft in)</td>
<td>2,250 (7' 5&quot;)</td>
</tr>
<tr>
<td>Tumbler distance</td>
<td>mm (ft in)</td>
<td>600 (24&quot;)</td>
</tr>
<tr>
<td>Ground clearance of counterweight</td>
<td>mm (ft in)</td>
<td>2,950 (9' 9&quot;)</td>
</tr>
<tr>
<td>Tail swing radius</td>
<td>mm (ft in)</td>
<td>8,690 (28' 6&quot;)</td>
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**R180LC-9 2-PIECE BOOM DIMENSIONS**

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<td>8,080 (26' 6&quot;)</td>
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<tr>
<td>Max. digging reach on ground</td>
<td>8,530 (27' 11&quot;)</td>
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<tr>
<td>Max. digging depth</td>
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<td>5,430 (17' 10&quot;)</td>
</tr>
<tr>
<td>Max. vertical wall digging depth</td>
<td>5,120 (16' 10&quot;)</td>
</tr>
<tr>
<td>Max. dumping height</td>
<td>8,750 (28' 8&quot;)</td>
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<td>Min. swing radius</td>
<td>3,180 (10' 6&quot;)</td>
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**R180LC-9 2-PIECE BOOM WORKING RANGE**

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Dimensions & Working Range

R180LCD-9 DIMENSIONS

Dimensions & Working Range

Lifting Capacity

R180LC-9

Boom : 5.10 (16' 9") / Arm : 2.20 (7' 3") / Bucket : 0.76 (3' 0") SAE heaped / Shoe : 0.600 (24") triple grouser with 2,900Kg (6,390 Lb) counterweight

Load point (m) Load radius At max. reach

Reach

Capacity

Reach

Capacity

Reach

Capacity

Reach

Dimensions & Working Range

Hyundai Construction Equipment Co., Ltd.

Dimensions & Working Range

R180LCD-9 WORKING RANGE

Dimensions & Working Range

Dimensions & Working Range
### Lifting Capacity

**R180LC-9 2-PIECE BOOM**

<table>
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<tr>
<th>Load point height (m)</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>
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</table>

**Rating over-front**

**Rating over-side or 360 degree**

1. Lifting capacity is based on SAE J1097, 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.

### Lifting Capacity

**R180LCd-9**

<table>
<thead>
<tr>
<th>Load point height (m)</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>
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