**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
- Handsfree mobile phone system with USB
- Sun visor
- 12 volt power outlet (24V DC to 12V DC converter)
- Computer aided power optimization (New CAPO) system
- 3-power mode, Z-work mode, User mode
- Auto deceleration & one-touched deceleration system
- Auto warm-up system
- Auto overhead protection system
- Automatic climate control
- Air conditioner & heater
- Defroster
- Starting Aid (air grid heater) for cold weather
- Centralized monitoring
- CD/DVD display
- Engine speed or Trip meter/Accel.
- Clock
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
- Warnings
- Check Engine
- Communication error
- Low battery
- Air cleaner self-cleaning
- Indicators
- Power max
- Fuel warmer
- Auto idle
- Door and cab lock, one key
- Two outside rearview mirrors
- Mechanical suspension seat with heater
- Pilot seat (height adjustable)
- Console box height adjust system
- Rear front working lights
- Loader boom
- Battery (2 x 12V x 80 AH)
- Battery master switch
- Removable clean-out screen for oil cooler
- Automatic swing brake
- Removable seat riser
- Fuel gas filter with fuel warmer
- Boom holding system
- Arm holding system
- Counterweight (2,100 kg, 4,630lbs)
- Track shoes (500mm, 20"")
- Accumulator for lowering work equipment
- Electric transducer
- Lower frame under cover (Normal)

**OPTIONAL EQUIPMENT**

- Fuel filler pump (50 liters)
- 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.)
- Double coupler
- Transmitter
- Arms
  - Super Short arm (5.0 m, 16’’)
  - Short arm (2.1 m, 6’ 11”)
  - Long arm (3.0 m, 9’ 10”)
- Cabin lights
- Cabin front window rain guard
- Horn
-欠缺なし
- Radiator
- Wipers
- 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.
- 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.

**CONSTRUCTION EQUIPMENT**

[Image of construction equipment]

* Photo may include optional equipment.

**PLEASE CONTACT**

www.hyundai-ce.com

2010.2 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!

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

Undercarriage
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 Mitsubishi Tier II D04FD-TAA engine
Electronically controlled for optimum fuel ratio and clean, efficient combustion
Low noise / Auto engine overheat feature / Anti-restart feature

Hydraulic System Improvements
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 line filter controls
2 speed travel, power boost, boom priority, arm-in regeneration, safety lock

Pump Compartment
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 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
Adjustable heated suspension seat, control console and arm rests

Advanced 7” Color Cluster
New Color LCD Display with easy-to-read digital gauges for hydraulic oil temperature, water temperature, and fuel. A simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rearview camera are integrated into monitor.
3 power modes: (P) Power, (S) Standard, (E) Economy, 2 work modes: Dig & Attachment, 3 User modes 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.
Operating the R145CR-9 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.

Wide Cabin with Excellent Visibility

*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 Comfort

In the 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences. Seat and console position can be set together and independent from each other. Additional creature comforts include the fully automatic high-capacity air conditioning 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 - 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.

Preference

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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, provide the precise flow needed 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. 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.
9 series is designed for maximum performance to keep the operator working productively.

**Performance**

Performance

*Photo may include optional equipment.

**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.

**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.

**Excellent Performance in Confined Areas**

R145CR-9’s short (1,480mm) tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This Compact radius design provides easy and efficient operation in any limited space work environment.

**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.

**R145CR-9’s short (1,480mm) tail swing radius allows the operator work in confined areas like close to buildings on roadways, and in urban areas. This Compact radius design provides easy and efficient operation in any limited space work environment.**
Profitable

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

Fuel Efficient

9 series excavators are engineered to be extremely fuel efficient. New innovations like two-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 bushings designed for extended lube intervals (250 hrs) & ultra high molecular weight 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 downtime.

*Photo may include optional equipment.
Specifications

ENGINE

**MODEL**
- Mitsubishi D04FD-TAA

**Type**
- Water cooled, 4 cylinder Diesel, 4-cylinders in-line, direct injection, turbocharged charger and intercooled

**Rated**
- **Sae**
  - D15N (gross) 110 HP @ 1850 rpm, 2,000 rpm
- **J15N** (net) 113 HP @ 1850 rpm, 2,000 rpm
- **D21C** (gross) 121 HP @ 1950 rpm, 2,000 rpm
- **D621T** (gross) 115 HP @ 1950 rpm, 2,000 rpm

**Max. torque**
- 45.4 kkgf.m (328 lbf.ft) @ 1,700 rpm

**Bore x Stroke**
- 102 x 130 mm (4.0” x 5.1”)

**Piston**
- 4.2500 (440 cu in)

**Batteries**
- 2 X 12V, 130 mm (4.0” x 5.1”)

**Starting motor**
- 240-50/55KW

**Alternator**
- 24V-70SA

**HYDRAULIC SYSTEM**

**SWING SYSTEM**

**Branding**
- Swing motor: Fixed displacement axial piston motor

**Swing reduction**
- Planetary gear reduction

**Swing lubrication**
- Axial piston motor with automatic brake

**Swing brake**
- Multi wet disc

**Swing speed**
- 12 rpm

**COOLANT & LUBRICANT CAPACITY**

**Rated flow**
- Cubic liter

**Major component weight**
- US gal

**Drives & Brakes**

**Swing motor**
- 500 (20”)
- 600 (24”)
- 700 (28”)

**R145LCR-9**
- 45.4 kgf.m (328 lbf.ft) / 1,700 rpm
- 102 x 130 mm (4.0” x 5.1”)
- 4,250cc  (260 in3)
- 2 X 12V X 80AH
- 24V- 5.0kW
- 24V- 50Amp

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

**Two levers with pedals**
- Electric, Dial type

**Swing circuit**
- Power boost (boom, arm, bucket)

**Swing motor**
- 2 EA

**Swing reduction**
- 7 EA

**Swing bearing lubrication**
- 2 EA

**Swing brake**
- 80AH

**Swing speed**
- 12 rpm

**OPERATING WEIGHT (APPROXIMATE)**

**Operating weight**, including 4,600mm (15’ 1”) boom, 2,500mm (8’ 2”) arm, SAE heaped 0.52m (606 kgf) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

**MAJOR COMPONENT WEIGHT**

**Premarketer**
- 6,950 kg (15,320 lb)

**Counterweight**
- 2,800 kg (6,170 lb)

**4.6m (15’ 1") (moms boom/with arm cylinder)**
- 1,030 kg (2,270 lb)

**OPERATING WEIGHT**

**Type**
- **Shovel**
  - **R145CR-9**
  - **R145LCR-9**

**Width (mm)**
- **500 (20”)**
  - **R145CR-9**
  - **R145LCR-9**

**Width (mm)**
- **600 (24”)**
  - **R145CR-9**
  - **R145LCR-9**

**Width (mm)**
- **700 (28”)**
  - **R145CR-9**
  - **R145LCR-9**

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

**Arm weight includes bucket cylinder, linkage, and pin

**COOLANT & LUBRICANT CAPACITY**

**Rated flow**
- Cubic liter

**BUCKETS**

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

**DIGGING FORCE**

**Boom**
- 4,600 (15’ 1")
- 1,000 (2,270)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
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- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Weight**
- Weight (kg)

**Power Boost**

**ARM**

**REMARKS**

**Note:** All buckets are welded with high-strength steel.
### Dimensions & Working Range

#### R145CR-9 (DOZER TYPE) DIMENSIONS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boom length</td>
<td>8,310 (27' 3&quot;)</td>
</tr>
<tr>
<td>Arm length</td>
<td>3,000 (10' 2&quot;)</td>
</tr>
<tr>
<td>Max. digging reach</td>
<td>7,730 (25' 4&quot;)</td>
</tr>
<tr>
<td>Max. digging reach on ground</td>
<td>7,580 (25' 0&quot;)</td>
</tr>
<tr>
<td>Max. digging depth</td>
<td>4,850 (16' 1&quot;)</td>
</tr>
<tr>
<td>Max. digging depth (8' level)</td>
<td>4,640 (15' 3&quot;)</td>
</tr>
<tr>
<td>Max. digging depth (16' level)</td>
<td>4,400 (14' 5&quot;)</td>
</tr>
<tr>
<td>Max. digging height</td>
<td>8,940 (29' 0&quot;)</td>
</tr>
<tr>
<td>Max. dumping height</td>
<td>6,350 (20' 10&quot;)</td>
</tr>
<tr>
<td>Min. swing radius</td>
<td>3,090 (10' 2&quot;)</td>
</tr>
<tr>
<td>Ground clearance of blade up</td>
<td>440 (1' 5&quot;)</td>
</tr>
<tr>
<td>Overall width of blade down</td>
<td>2,900 (9' 10&quot;)</td>
</tr>
<tr>
<td>Overall length of blade down</td>
<td>8,840 (29' 0&quot;)</td>
</tr>
<tr>
<td>Overall height of blade down</td>
<td>6,470 (21' 3&quot;)</td>
</tr>
<tr>
<td>Min. swing radius</td>
<td>3,000 (10' 2&quot;)</td>
</tr>
<tr>
<td>Overall length</td>
<td>1,900 (6' 6&quot;)</td>
</tr>
<tr>
<td>Overall width</td>
<td>1,860 (6' 1&quot;)</td>
</tr>
<tr>
<td>Overall height</td>
<td>2,260 (7' 5&quot;)</td>
</tr>
<tr>
<td>Overall width of upperstructure</td>
<td>5,000 (16' 9&quot;)</td>
</tr>
<tr>
<td>Overall height of upperstructure</td>
<td>9,350 (30' 8&quot;)</td>
</tr>
</tbody>
</table>

#### R145LCR-9 (DOZER TYPE) WORKING RANGE

<table>
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<tr>
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</table>
### Lifting Capacity

**R145CR-9**

**Load radius**
- **6.0 m (20.0 ft)**
  - **At max. reach**
    - **Load point height**
      - 1.5 m (5.0 ft)
        - **Lifting capacity**
          - kg: 6830
          - lb: 15060
      - 3.0 m (10.0 ft)
        - **Lifting capacity**
          - kg: 17330
          - lb: 38300
      - 4.5 m (15.0 ft)
        - **Lifting capacity**
          - kg: 2460
          - lb: 5420
      - 6.0 m (20.0 ft)
        - **Lifting capacity**
          - kg: 3690
          - lb: 8140

**At max. reach**
- **Load point height**
  - 1.5 m (5.0 ft)
    - **Lifting capacity**
      - kg: 8930
      - lb: 19860
  - 3.0 m (10.0 ft)
    - **Lifting capacity**
      - kg: 1910
      - lb: 4210
  - 4.5 m (15.0 ft)
    - **Lifting capacity**
      - kg: 6350
      - lb: 14000
  - 6.0 m (20.0 ft)
    - **Lifting capacity**
      - kg: 10930
      - lb: 23960

**Load radius**
- **6.0 m (20.0 ft)**
  - **Reach**
    - **Load point height**
      - 1.5 m (5.0 ft)
        - **Lifting capacity**
          - kg: 1910
          - lb: 4210
      - 3.0 m (10.0 ft)
        - **Lifting capacity**
          - kg: 3210
          - lb: 7050
      - 4.5 m (15.0 ft)
        - **Lifting capacity**
          - kg: 4910
          - lb: 10710
      - 6.0 m (20.0 ft)
        - **Lifting capacity**
          - kg: 6530
          - lb: 14400

**At max. reach**
- **Load point height**
  - 1.5 m (5.0 ft)
    - **Lifting capacity**
      - kg: 2650
      - lb: 5840
  - 3.0 m (10.0 ft)
    - **Lifting capacity**
      - kg: 5380
      - lb: 11700
  - 4.5 m (15.0 ft)
    - **Lifting capacity**
      - kg: 8480
      - lb: 18520
  - 6.0 m (20.0 ft)
    - **Lifting capacity**
      - kg: 10930
      - lb: 23960

---

1. Lifting capacity is based on SAE J1097, ISO 10567.
2. Lifting capacity of the R145CR-9 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

**R145CR-9 (DOZER TYPE)**

<table>
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<th>Load point height (m)</th>
<th>Load point radius (m)</th>
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<th>Reach (m)</th>
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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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

---

### Lifting Capacity

**R145CR-9 (DOZER TYPE)**

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<td>3.0 m (10.0 ft)</td>
<td>4.5 m (15.0 ft)</td>
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</tr>
</tbody>
</table>

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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.