With Tier 4 Interim Engine installed
PRIDE AT WORK

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!
Reliable Main Components

Engine Technology
Proven, reliable, fuel efficient, low emission, low noise Cummins Tier 4 Interim & EU Stage IIIB QSB6.7 engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
HPCR (High Pressure Common Rail) fuel system / Self-diagnostic system
DOC - Clean emission aftertreatment module
3 engine modes, P (Power), S (Standard), E (Economy) for full power or reduced fuel consumption according to operator preference

Fully Automatic Transmission
4 step shift modes (Manual / Light / Normal / Heavy) for different working conditions
Protective transmission at low temperature(Automatic warm-up system)
Self-diagnostic & Memory of malfunction history
Minimum travel shift shock by applying proportional controlling modulation valve / Self adjusting Clutch gap
Kick-down button & FNR switch for operating comfort

Axle
Self-adjusting & wheel speed wet disc brake

Improved Durability
Load sensing hydraulic system with variable displacement piston pump and closed-center MCV (Main Control Valve)
Long-life cooling system with relocated cooling fan & radiator, designed for additional durability, resistant to thermal shock, impulse and vibration
Redesigned steering cylinder lug and bucket link, now cast steel for additional strength and reliability

Enhanced Operator Comfort

Improved Visibility
Larger operator’s cab for additional comfort
Redesigned cab with rounded front glass and larger door glass for a larger field of view

Improved Convenience
Increased cooling & heating capacity with fully automatic climate control system
Tilting & telescopic steering column
Adjustable wrist rest for reduced operating stress
Multiple storage compartments
AM/FM Radio with MP3 interface and USB input and bluetooth hands-free
Improved ladder with 20 degree incline and large, deep tread, aluminum cast steps for safer access and exit from the cab

Advanced 5.7” Color Monitor with Touch Screen
Easy-to-read new color LCD display equipped with natural screen movement
Newly designed multimedia function for an enjoyable work environment
Auto boom kick out and bucket positioner - fully adjustable from within the cab
Integrated load weighing system, viewable through the monitor, for improved work efficiency and overload prevention
Self diagnostic & monitoring system with active display of engine, hydraulic system, transmission and electrical component information
Color, rear-view, back-up camera for improved safety and convenience

Serviceability
The tilting transmission and hydraulic oil coolers swing open for easy access and regular maintenance
Ground level access to critical service points, filters and sight gauges for easy maintenance
Long life hydraulic filter and oil for reduced operating costs
Innovative hydraulic system technologies make the 9A series wheel loaders fast, smooth and easy to control. 9A series is designed for maximum performance to keep the operator working productively.
Improved Durability & Reliability

An enhanced axle improves driving over variable ground conditions. Self-adjusting brakes that automatically regulate disc clearance, reduce service time and improve brake reliability and performance. The new load sensing hydraulic system with a variable displacement piston pump and closed center main control valve, provide efficient hydraulic power and additional energy savings.

Variable Operating Modes

9A series wheel loaders are designed to allow the operator to customize the machine’s engine power, automatic transmission shift timing and clutch cut-off activation based on the job condition and personal operator preference. Convenient rotary type switches allow for easy adjustment of engine power mode, transmission power shift mode, and clutch cut-off mode. Additionally, the optional ride control system has shock absorbing accumulators that cushion the boom, improves operator comfort and reduces material loss. The versatility of the 9A series operating modes contributes to improved productivity, enhanced operator comfort and reduced fuel consumption.

3 Mode Engine Power Selection
- P (Power) Mode: Heavy duty work
- S (Standard) Mode: General work
- E (Economy) Mode: Light duty work

4 Mode Transmission Power Shift System
- M (Manual) Mode
- Auto L (Light) Mode: Light duty & long distance carry
- Auto N (Normal) Mode: General excavating & loading
- Auto H (Heavy) Mode: Heavy duty excavating & loading

3 Mode Clutch Cut-Off System
- L (Low) Mode: Short distance & faster loading
- M (Medium) Mode: General loading
- H (High) Mode: Less power loss in torque converter and lower temperature on brake side

Eco-friendly Cummins QSB 6.7 Engine

The CUMMINS QSB6.7 engine combines advanced electronic controls and a self-diagnostic system with reliable performance. The combination of a high pressure common rail system and an advanced in-cylinder combustion technology results in increased power, improved transient response and reduced fuel consumption. The QSB6.7 Cummins engine complies with current emissions standards including EPA Tier 4 interim and EU Stage III-B.

DOC - Clean Emission Aftertreatment Module
Reduces Particulate Matter (PM) through a chemical reaction with no cleaning or maintenance required. A DOC (Diesel Oxidation Catalyst) consists of a catalytic coating on a cordierite or metallic substrate for oxidizing exhaust particulate matter. It operates in a passive-only mode and can act as a stand alone aftertreatment solution for those engines requiring a moderate PM reduction.

VGT (Variable Geometry Turbocharger)
Newly designed VGT with electric actuator delivers optimum air flow resulting in cleaner exhaust gas, quick transient acceleration and improved fuel economy by combining the benefits at low & high engine speed.

Fully Automatic Transmission

Fully automatic transmission designed for minimum durability, minimum power loss, improved travel speed and low noise. Improved clutch control and minimized shifting shock when traveling, contribute to a smoother ride. Error messages and transmission fault faults are recorded and accessible through the monitor.
OPERATOR COMFORT

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

**Operator Comfort**

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. The front windshield is rounded and 17% wider than our previous series. Special attention was given to a clean, open and convenient interior with wide of visibility on the machine surroundings and the job at hand. This well balanced combination of cab ergonomics puts the operator in a perfect position to work safely and conveniently. The 9A series cab’s fully automatic climate control system features 11 air vents and increased cooling and heating capacity for optimum temperature control. The defroster vents located at the front and rear windows and the PTC (electric pre-heater) makes working in cold weather more comfortable.

*Photo may include optional equipment.*

**Wide and Convenient Cab**

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. The front windshield is rounded and 17% wider than our previous series. Special attention was given to a clean, open and convenient interior with wide of visibility on the machine surroundings and the job at hand. This well balanced combination of cab ergonomics puts the operator in a perfect position to work safely and conveniently. The 9A series cab’s fully automatic climate control system features 11 air vents and increased cooling and heating capacity for optimum temperature control. The defroster vents located at the front and rear windows and the PTC (electric pre-heater) makes working in cold weather more comfortable.
In the 9A series cabin you can easily adjust the steering column and wrist rest to best suit your preferred comfort level. Pilot-operated joystick controls are easy and comfortable to operate. An FNR (Forward/Neutral/Reverse) switch on the control lever facilitates easy selection of travel direction. Roller type sunshades of the front window and rear window allow the operator to reduce glare and improve visibility. Heated side mirrors feature built-in hot wires for quick defrosting in cold weather conditions.

Hyundai's 9A series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress of the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with AM/FM stereo with MP3 interface and USB input, plus remotely located controls is perfect for listening to music favorites.

User authentication and anti-theft system are reinforced with smart key system (optional).

The advanced new monitor with 5.7 inch wide color LCD with touch screen allows the operator to easily and efficiently control the machine. The operator can adjust boom kick-out and bucket position via overhead switches while monitoring the adjustment settings through the monitor. An integrated load weighing system that contributes to improved work efficiency, can also be viewed through the monitor. Self diagnostics, color rear-view camera maintenance check lists and start-up machine security were integrated into the monitor to make the machine more versatile and the operator more productive. The new monitor display unit is mounted on an adjustable swivel to reduce glare and position according to operator preference. Also, newly designed multimedia menu provides a music & video player function for an enjoyable work experience.
PROFITABILITY

9A 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.

Remote-mounted Cooling Fan

The remote mounted, hydraulically powered cooling fan regulates fan speed according to working temperatures for coolant, intake air, transmission oil and hydraulic oil. The fan drive with variable piston pump contributes to reduce fuel consumption and improve cooling capacity. The fan is designed to auto reverse periodically or manually reverse to keep debris from accumulating in the coolers.

Easy Access

The tilting transmission and hydraulic oil coolers swing open for easy access and regular maintenance. And the rear door can be open to over 70 degrees. Conveniently located transmission oil site gauges make checking fluid levels fast and efficient. Ground-line access to fuel and oil filters, grease fittings, fuses, machine computer components and wide open compartments makes service more convenient in the 9A series.

Full Fenders and Mud Guards (Option)

9A series wheel loaders can be equipped with optional full rear mud guards to reduce material splatter to the cab and machine frame.

Extended Life Components

The 9A series is designed for longer lubrication intervals and extended component life. Long life hydraulic filters now have 1,000 hours service intervals and Hyundai certified hydraulic oil can last up to 5,000 hours before changing. Also, a new center pivot roller bearing design, now double tapered, requires less maintenance as well. Long life and extended wear components save the operator time and money.
**Specifications & Dimensions**

### ENGINE

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maker/Model</strong></td>
<td>CUMMINS QSB6.7</td>
</tr>
<tr>
<td><strong>Type</strong></td>
<td>Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine</td>
</tr>
<tr>
<td><strong>Gross power</strong></td>
<td>158 HP (118 kW) / 2,100rpm</td>
</tr>
<tr>
<td><strong>Net power</strong></td>
<td>156 HP (116 kW) / 2,100rpm</td>
</tr>
<tr>
<td><strong>Maximum torque</strong></td>
<td>82 kg·m (591 lb·ft) / 1,500rpm</td>
</tr>
<tr>
<td><strong>No. of cylinders</strong></td>
<td>6</td>
</tr>
</tbody>
</table>

※ No derating for continuous operating required up to 3,658m (12,000ft). This engine meets the EPA Tier III / EU Stage III-A Emission regulation.

### TRANSMISSION

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Torque converter type</strong></td>
<td>3-elements, single-stage single-phase</td>
</tr>
<tr>
<td><strong>Tire</strong></td>
<td>20.5-25, L3</td>
</tr>
</tbody>
</table>

※ Full automatic power shift, countershaft type with soft-shift in range and direction. Properly matched torque converter to engine and transmission for excellent working ability.

### AXLES

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Drive system</strong></td>
<td>Four-wheel drive system</td>
</tr>
<tr>
<td><strong>Mount</strong></td>
<td>Rigid front axle and oscillating rear axle</td>
</tr>
<tr>
<td><strong>Rear axle oscillation</strong></td>
<td>±12° (total 24°)</td>
</tr>
</tbody>
</table>

### HYDRAULIC SYSTEM

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Load-sensing hydraulic system</td>
</tr>
<tr>
<td><strong>Pump</strong></td>
<td>Variable axial piston type, 155 lpm (40.9 gal/min) @ governed rpm</td>
</tr>
<tr>
<td><strong>Control valve</strong></td>
<td>2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type System pressure : 280 kgf/cm² (3.982PSI)</td>
</tr>
</tbody>
</table>

### Bucket Controls

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Type</strong></td>
<td>Pilot operated lift and tilt circuit, single-lever (joystick) control standard.</td>
</tr>
<tr>
<td><strong>Lift Circuit</strong></td>
<td>The valve has four functions; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.</td>
</tr>
<tr>
<td><strong>Tilt Circuit</strong></td>
<td>The valve has three functions; tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cylinders</strong></td>
<td>Type : Double acting No. of cylinders-bore x stroke; Lift : HL740-9A 2-ø110 mm x 738 mm (4.3&quot; x 29.5&quot;) Tilt : HL740-9A 1-ø125 mm x 505 mm (4.9&quot; x 19.9&quot;) Cycle Time : HL740TM-9A</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cycle Time</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Raise(with load)</td>
<td>5.5 sec</td>
</tr>
<tr>
<td>Dump</td>
<td>1.1 sec</td>
</tr>
<tr>
<td>Lower(empty)</td>
<td>3.0 sec</td>
</tr>
<tr>
<td>Total</td>
<td>9.6 sec</td>
</tr>
</tbody>
</table>
### BRAKES

<table>
<thead>
<tr>
<th>Description</th>
<th>UNIT</th>
<th>HL740-9A</th>
<th>HL740XTD-9A</th>
<th>HL740TM-9A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Brakes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Parking Brake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Emergency Brake</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Spring-applied, hydraulically released brake.

When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

### SERVICE REFILL CAPACITIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel tank</td>
<td>220 liters (58.1 USgal)</td>
</tr>
<tr>
<td>Cooling system</td>
<td>34 liters (9.0 USgal)</td>
</tr>
<tr>
<td>Crankcase</td>
<td>18 liters (4.8 USgal)</td>
</tr>
<tr>
<td>Transmission</td>
<td>25 liters (6.6 USgal)</td>
</tr>
</tbody>
</table>

### OVERVIEW

<table>
<thead>
<tr>
<th>Description</th>
<th>UNIT</th>
<th>HL740-9A</th>
<th>HL740XTD-9A</th>
<th>HL740TM-9A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bucket capacity</td>
<td>m³/yd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Chain</td>
<td>m³/yd</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Overall length</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Overall height (fully raised)</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>F. Bucket pivot max. height</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>G. Front overhang</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. Wheelbase</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Ground clearance</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. Height over exhaust</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K. Height over cab</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### STEERING SYSTEM

Type: Load-sensing hydrostatic articulated steering.

Pump: Piston pump, 155 lpm (40.9 gal/min) @ governed rpm.

Relief Valve Setting: 210 kg/cm² (2,986 psi).

Cylinder: Double acting

Bore x Stroke: 65mm x 429mm (2.6" x 16.9")

Steering Angle: 40° (each direction)

Features:
- Center-point frame articulation.
- Tilt and telescoping steering column.

### TIREs

Type: Tubeless, loader design tires.

Standard: 20.5-25, 16 PR, L3

Options include:
- 17.5-25, 12 PR, L3
- 20.5-25, 16 PR, L2
- 20.5 R25 XHA*
- 20.5-25, 16 PR, L5
- 23.1-26, 16 PR, LS2

### DIMENSIONS

<table>
<thead>
<tr>
<th>Description</th>
<th>UNIT</th>
<th>HL740-9A</th>
<th>HL740XTD-9A</th>
<th>HL740TM-9A</th>
</tr>
</thead>
<tbody>
<tr>
<td>G. Front overhang</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>H. Wheelbase</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>I. Ground clearance</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>J. Height over exhaust</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>K. Height over cab</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>L. Roll-back angle</td>
<td>deg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>M. Dump angle</td>
<td>deg</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N. Overall width</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

General purpose bolt-on cutting edge.
**BUCKET SELECTION GUIDE**

**SUPPLEMENTAL SPECIFICATIONS**

<table>
<thead>
<tr>
<th>Description</th>
<th>Change in operating weight kg (lb)</th>
<th>Change in static tipping load-straight kg (lb)</th>
<th>Change in static tipping load-40° turn kg (lb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>17.5-25 12PR L2</td>
<td>-308 (-679)</td>
<td>-220 (-480)</td>
<td>-190 (-420)</td>
</tr>
<tr>
<td>17.5-25 16PR L3</td>
<td>-248 (-547)</td>
<td>-170 (-375)</td>
<td>-150 (-330)</td>
</tr>
<tr>
<td>20.5-25 16PR L2</td>
<td>-64 (-141)</td>
<td>-45 (-100)</td>
<td>-40 (-90)</td>
</tr>
<tr>
<td>17.5 R25 XHA*</td>
<td>-160 (-353)</td>
<td>-110 (-240)</td>
<td>-100 (-220)</td>
</tr>
<tr>
<td>20.5 R25 XHA*</td>
<td>+507 (+1,118)</td>
<td>+360 (+790)</td>
<td>+310 (+680)</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT**

- **Electrical system**
  - Alternator, 70A
  - Air filter dogging
  - Transmission error
  - Alternator voltage
  - Brake oil pressure
  - Engine oil pressure
  - Parking brake
  - Fuel level
  - Hydraulic oil temperature
  - Coolant temperature
  - Service brake oil pressure
  - Alarm, back-up

- **Gauges**
  - Batteries, 820 CCA, 12V, (2)
  - Engine coolant temperature
  - Fuel level
  - Hydraulic oil temperature
  - Speedometer
  - Transmission oil temperature
  - Voltmeter

- **Auxiliary equipment**
  - 3 piece cutting edge, bolt-on type
  - 2 working lights on front roof
  - 2 working lights on rear roof
  - 2 head lights on front tower
  - 2 head lights on rear tower
  - 2 working lights on front roof
  - 2 working lights on rear roof

- **Switches**
  - Work load
  - Clutch cut-off
  - Hazard
  - Ignition key, start/stop switch
  - Main light (illumination and head light)

- **Lighting system**
  - Rear view mirrors (2 outside)
  - Rear view mirrors (1 inside)
  - Rear view mirrors (2 outside)

- **Vandalism protection caplocks**
  - Fire extinguisher

- **Radiator (deaeration type)**

- **Ergonomically located and slip resistant, left & right**

- **Drawbar with pin**

- **Steering, load-sensing**

- **Low Emission Diesel, Tier4 Interim,**
  - EU Stage BB

- **Low Emission Diesel, Tier4 Interim,**
  - Hydraulic control fingertip

- **Others**
  - Articulation locking bar
  - Coolant level sight gauge

- **Brakes**
  - Service, enclosed wet-disc
  - Parking brake
  - Dual-brake pedal

- **Fuel/water separator**

- **Transmission, computer-controlled, electronic soft shift, auto-shift and kick down-shift features included**

- **3 operating mode**
  - Power/standard/economy

- **Steering, load-sensing**

- **Transmission oil level sight gauge**

- **Vandalism protection caplocks**

**OPTIONAL EQUIPMENT**

- **Fire extinguisher**
  - High lift arrangement with optional counterweight, 600 kg (1,320 lb)

- **Hydraulic control fingertip**

- **2 working lights on front roof**

- **Xenon working lights**

- **Auxiliary, 2 working lights on front roof**

- **Rear view camera**

- **Mud guard**

- **Operator suit**

- **3 piece cutting edge, bolt-on type**

- **Secondary steering system**

- **Heated rear view mirrors (2 outside)**

- **2 spool, single lever pilot control**

- **drawbar with pin**

- **Remote cooling fan**

- **Painted value**

- **Limited slip differential**

**PLEASE CONTACT**

CONSTRUCTION EQUIPMENT AMERICAS, INC.

6100 Atlantic Blvd, Norcross, GA 30071

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www.hceamericas.com

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