**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>23.5-25 20PR L3</td>
<td>-472 (-1041)</td>
<td>-350 (-770)</td>
<td>-310 (-680)</td>
</tr>
<tr>
<td>26.5-25 28PR L3</td>
<td>-4 (-9)</td>
<td>-3 (-7)</td>
<td>-2 (-4)</td>
</tr>
<tr>
<td>26.5-25 32PR L3</td>
<td>+164 (+362)</td>
<td>+120 (+265)</td>
<td>+110 (+240)</td>
</tr>
<tr>
<td>26.5 R25 XHA*</td>
<td>+108 (+238)</td>
<td>+80 (+175)</td>
<td>+70 (+155)</td>
</tr>
</tbody>
</table>

**STANDARD EQUIPMENT**

**Electrical system**
- Alternator, 70A
- Alarms, audible and visual
- Air filter clogging
- 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
- Batteries, 1000 CCA, 12V, (2)
- Gauges
  - Engine coolant temperature
  - Fuel level
  - Hydraulic oil temperature
  - Speedometer
  - Transmission oil temperature
  - Voltmeter
- Horn, electric
- Indicator lights
  - Clutch cut-off
  - High beam
  - Turn signal
- LCD Display
  - Clock and fault code
  - Operating hour counter
  - Engine rpm
  - Transmission gear range indicator
- Job time and distance
- Temperature (coolant, hydraulic oil, t/m oil)
- Lighting system
  - 1 LED dome lights
  - 2 stop and tail lights
- 4 turn signals
- Brake lights (counterweight)
- 2 head lights on front tower
- 2 working lights on front roof
- 2 working lights on grill
- Switches
  - Clutch cut-off
  - Hazard
  - Ignition key, start/stop switch
  - Main light (illumination and head light)
  - Parking
  - Rear wiper & washer
  - Work light
  - Battery master switch
  - Pilot cut-off
  - Starter, electric
- Starting and charging system (24 volt)
- Cab
  - Cab, ROPS/FOPS
  - Sound suppressed and pressurized
  - With:
    - Cigar lighter & ash tray
    - Coat hook
- Automatic climate control
  - Air conditioner & heater
  - Defroster
  - Intermittent wiper and washer, front and rear
- Personal storage space
  - Console box
  - Holder, can and cup
  - 2 head lights on front tower
  - 2 working lights on front roof
- 2 working lights on grill
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- Battery master switch
- Pilot cut-off
- Starter, electric
- Starting and charging system (24 volt)
- Cab, ROPS/FOPS
  - Sound suppressed and pressurized
  - With:
    - Cigarette lighter & ash tray
    - Coat hook

**Optional Equipment**

- 24-volt to 12-volt DC converter
- Tool kit
- 3 Spoon
- Tool kit
- Beacon light, rotating
- Tooth, 1 piece, bolt-on type
- Auxiliary, 2 working lights on front roof
- Tooth, 2 pieces, bolt-on type
- (Xenon working lights)
- Wheel chock
- Auxiliary, 2 working lights on rear roof
- Joystick-Steering
- Cutting edge, bolt-on type
- Joystick-switch (FNR)
- Dual brake pedal
- License plate & lamp
- Secondary steering system
- Guard, bucket cylinder rod
- Fenders (rear-mudguard)
- Hydraulic oil level sight gauge
- Fire extinguisher
- Vandalism protection caplocks
- (2 outside)
- Reversal protection caplocks
- High lift arrangement with
  - Ride control system
  - 26.5 R25 XHA*
  - Smart key system
  - Additional counterweight, 520kg (1,146 lb)
  - Tool kit
  - Hydraulic control, 2 lever
  - Tooth, 1 piece, bolt-on type
  - 3rd spoon for auxiliary function
  - Tooth, 2 pieces, bolt-on type
  - Joystick with travel switch (FNR)
  - Wheel chock
  - Mud guard
  - Joystick-Steering
  - Pallet forks
  - Roller sunshade (rear window)
  - Lift and tie-down hooks
  - Hydraulic system, sealed
  - Loader linkage, sealed
  - Z-Bar design
  - Steering, load-sensing
  - Steering stops, cushioned
  - Tire (26.5-25, 20PR, L3)
  - Transmission oil site level
  - Vandalism protection caplocks
  - Reversible cooling fan
  - Hydraulic oil cooler
  - Automatic climate control
  - Air conditioner & heater
  - Defroster
  - Intermittent wiper and washer, front and rear
  - Personal storage space
  - Console box
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  - Battery master switch
  - Pilot cut-off
  - Starter, electric

**PLEASE CONTACT**
HL770-9A
With Tier 4 Interim Engine installed

HYUNDAI HEAVY INDUSTRIES

*Photo may include optional equipment.
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.

*Photo may include optional equipment.*

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 QSL9 engine
- Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
- HPCR (High Pressure Common Rail) fuel system / Self-diagnostic system
- DPF - Clean emission aftertreatment module
- 3 engine modes, P (Power), S (Standard), E (Econo) 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 hands-free bluetooth
- 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 experience
- 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
- RMS (Remote Management System) works through GPS/satellite technology to provide better customer service and support

Serviceability
- Reversible, swing-out cooling fan for easy service and improved cooling 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
PRECISION & PERFORMANCE

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.

*Photo may include optional equipment.*
Improved Durability & Reliability

An enhanced axle improves driving over variable ground conditions. Self-adjusting brakes 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 the 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, improve operator comfort and reduce material loss. The versatility of the 9A series operating modes contributes to improved productivity, enhanced operator comfort and reduced fuel consumption.

Eco-friendly Cummins QSL9 Engine

Built on a heritage of reliability and durability, Cummins QSL9 for Tier 4 Interim/Stage IIIB regulations takes a major step forward with the introduction of a High Pressure Common Rail (HPCR) fuel system. This heavy-duty system delivers a constant stream of pressurized fuel across all engine rpm speeds, providing cleaner combustion and improved engine response with multiple injections every combustion cycle. The fuel system is complemented by Cummins VGT Turbocharger, which continuously varies the airflow to precisely match engine rpm and load demands for optimal performance.

Fully Automatic Transmission

Fully automatic transmission designed for maximum 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 faults are recorded and accessible through the monitor.

Complete with a New 5 Speed & Lock up Clutch (Option)
By using the 5 speed & Lock up Clutch, the operator can enjoy both the reduction of consumption and the use of various gears depending on the working condition.
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.

*Photo may include optional equipment.

Wide and Convenient Cab

The newly designed cabin has 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 visibility of 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.
Operator Comfort

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 sunshades on the front and rear windows allow the operator to reduce glare and improve visibility. Heated side mirrors feature built-in hot wires for quick defrosting in cold weather conditions.

Reduced Stress

Hyundai’s 9A series cabin offers many 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, MP3 interface and USB input, plus remotely located controls, is perfect for listening to your favorite music.

Advanced Color Monitor

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, the newly designed multimedia menu provides a music & video player function for an enjoyable work experience.

Smart Key System (Option)

9A series excavators provide smart key system as an option. This allows the operator to start the engine by the push of a starter button without inserting a key in the ignition.

Monitor Tilt Range

[Monitors and diagrams illustrating monitor tilt range]
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 over 90 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.

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.

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.
Specifications & Dimensions

ENGINE

Maker/Model: CUMMINS QSL9
Type: Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power: 300HP (224 kW) / 2,000rpm
Net power: 297HP (221 kW) / 2,000rpm
Maximum torque: 148kg.m (1,070 lb.ft) / 1,400rpm
No. of cylinders: 6

Bore x Stroke: 114 mm (4.5") x 145 mm (5.7")
Displacement: 8.9ℓ (543 cu in)
Compression ratio: 17.8 : 1
Air cleaner: Direct flow, dry, two stage dual elements
Alternator: 24V, 70 Amp
Battery: 2 x 12V, 160 Ah.

Starting motor: 24V, 7.8 kW

※ No derating for continuous operating required up to 1,829m (6,000ft). This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.

TRANSMISSION

Torque converter type: 3-elements, single-stage
Tire: 26.5-25, L3

※ 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.

TRAVEL SPEED

km/h (mph)

<table>
<thead>
<tr>
<th>Torque converter type</th>
<th>3-elements, single-stage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tire</td>
<td>26.5-25, L3</td>
</tr>
</tbody>
</table>

Forward
1st 7.0 (4.3) 6.9 (4.3)
2nd 12.5 (7.8) 12.4 (7.7)
3rd 27.6 (17.1) 20.1 (12.5)
4th 42.0 (26.1) 28.7 (17.8)
5th N.A 46.0 (28.6)

Reverse
1st 7.0 (4.3) 6.9 (4.3)
2nd 12.5 (7.8) 12.4 (7.7)
3rd 27.6 (17.1) 28.7 (17.8)

Axles

Drive system: Four-wheel drive system
Mount: Rigid front axle and oscillating rear axle
Rear axle oscillation: ±12° (total 24°)

HYDRAULIC SYSTEM

Type: Load sensing hydraulic system
Pump: Variable axial piston pump, 342 liters/min (90.3 gal/min)
Control valve:
- 2 Spool (Bucket, Boom)
- 3 Spool (Bucket, Boom, Aux)
System pressure: 280 kgf/cm (3,982 psi)

Bucket Controls
Type: Pilot operated lift and tilt circuit, single-lever (joystick) control standard

Lift Circuit:
The valve has four functions; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.

Tilt Circuit:
The valve has three functions; tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle.

Cylinder
Type: Double acting
No. of cylinders-bore x stroke;
- Lift 2-160 mm (6.2") x 765 mm (30.1")
- Tilt 1-180 mm (7.0") x 570 mm (22.4")
Cycle Time:
- Raise : 5.4 sec
- Dump : 1.3 sec
- Lower : 2.8 sec
- Total : 9.5 sec

※ 8.9ℓ (543 cu in) 297HP (221 kW) / 2,000rpm 42.0 (26.1) (28.7) 12.7 (7.8) 12.4 (7.7) 28.7 (17.8) 26.5-25, L3 24V, 70 Amp 2 x 12V, 160 Ah. 24V, 7.8 kW ※ No derating for continuous operating required up to 1,829m (6,000ft). This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.
BRAKES

Service Brakes
Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-by-axle system. Self adjusting & wheel speed brake.

Parking Brake
Spring-applied, hydraulically released disc brake in transmission

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

SERVICE REFILL CAPACITIES

Fuel tank 390 liters (103 USgal)
Cooling system 55 liters (14.5 USgal)
Crankcase 23 liters (6.1 USgal)
Transmission 43 liters (11.4 USgal)

OVERVIEW

<table>
<thead>
<tr>
<th>Description</th>
<th>UNIT</th>
<th>HL770-9A</th>
<th>HL770XTD-9A</th>
</tr>
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<tbody>
<tr>
<td>Operating weight</td>
<td>kg (lb)</td>
<td>23,500 (51,810)</td>
<td>24,250 (53,460)</td>
</tr>
<tr>
<td>Bucket capacity</td>
<td>m³ (yd³)</td>
<td>4.2 (5.5)</td>
<td>4.2 (5.5)</td>
</tr>
<tr>
<td>Breakout force-bucket</td>
<td>kg (lb)</td>
<td>21,740 (47,920)</td>
<td>21,390 (47,160)</td>
</tr>
<tr>
<td>Tipping load</td>
<td>kg (lb)</td>
<td>17,730 (39,090)</td>
<td>16,120 (35,540)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15,350 (33,840)</td>
<td>13,860 (30,560)</td>
</tr>
</tbody>
</table>

STEERING SYSTEM

Type Load sensing hydrostatic articulated steering
Pump Piston pump, 220 liters/min
(58.1 gal/min)
Relief Valve Setting 210 kg/cm² (2,990 psi)
Cylinder Type Double acting
Bore x Stroke 95mm (3.7") x 480mm (18.9")
Steering Angle 40° (each direction)

Features
- Center-point frame articulation.
- Tilt and telescopic steering column.

TIRES

Type Tubeless, loader design tires
Standard 26.5-25, 20 PR, L3
Options include 26.5 R25 XHA*
26.5-25, 28 PR, L3
26.5-25, 32 PR, L3
23.5-25, 32 PR, L3
26.5-25, 20 PR, L5

DIMENSIONS

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<tr>
<td>Bucket Type</td>
<td>General purpose bolt-on cutting edge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>A. Dumping clearance at max. height</td>
<td>mm (ft-in)</td>
<td>3,090 (10' 2&quot;)</td>
<td>3,540 (11' 7&quot;)</td>
</tr>
<tr>
<td>B. Reach</td>
<td>mm (ft-in)</td>
<td>1,295 (4' 3&quot;)</td>
<td>1,295 (4' 3&quot;)</td>
</tr>
<tr>
<td>C. Digging depth</td>
<td>mm (ft-in)</td>
<td>1,920 (6' 4&quot;)</td>
<td>2,275 (7' 6&quot;)</td>
</tr>
<tr>
<td>D. Overall length</td>
<td>mm (ft-in)</td>
<td>8,700 (28' 7&quot;)</td>
<td>9,175 (30' 1&quot;)</td>
</tr>
<tr>
<td>E. Overall height (fully raised)</td>
<td>mm (ft-in)</td>
<td>5,860 (19' 4&quot;)</td>
<td>6,340 (20' 10&quot;)</td>
</tr>
<tr>
<td>F. Bucket pivot max. height</td>
<td>mm (ft-in)</td>
<td>4,310 (14' 2&quot;)</td>
<td>4,760 (15' 7&quot;)</td>
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<tbody>
<tr>
<td>G. Front overhang</td>
<td>mm (ft-in)</td>
<td>2,990 (10' 2&quot;)</td>
<td>3,400 (11' 2&quot;)</td>
</tr>
<tr>
<td>H. Wheelbase</td>
<td>mm (ft-in)</td>
<td>3,550 (11' 5&quot;)</td>
<td>3,550 (11' 6&quot;)</td>
</tr>
<tr>
<td>I. Ground clearance</td>
<td>mm (ft-in)</td>
<td>480 (1' 7&quot;)</td>
<td>480 (1' 7&quot;)</td>
</tr>
<tr>
<td>J. Height over exhaust</td>
<td>mm (ft-in)</td>
<td>3,150 (10' 4&quot;)</td>
<td>3,150 (10' 4&quot;)</td>
</tr>
<tr>
<td>K. Height over cab</td>
<td>mm (ft-in)</td>
<td>3,560 (11' 8&quot;)</td>
<td>3,560 (11' 8&quot;)</td>
</tr>
<tr>
<td>L. Roll-back angle</td>
<td>deg</td>
<td>44/49</td>
<td>44/50</td>
</tr>
<tr>
<td>M. Dump angle</td>
<td>deg</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>N. Overall width</td>
<td>mm (ft-in)</td>
<td>3,100 (10' 2&quot;)</td>
<td>3,100 (10' 2&quot;)</td>
</tr>
<tr>
<td>without bucket</td>
<td>mm (ft-in)</td>
<td>2,975 (9' 9&quot;)</td>
<td>2,975 (9' 9&quot;)</td>
</tr>
</tbody>
</table>