

HL760-9

With Tier 3 Engine installed

* Photo may include optional equipment.



Head Office(Sales Office)
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PLEASE CONTACT

Gross Power
215 HP(160 kW) / 2,100 rpm

Bucket Capacity
3.3 m³ (4.3 yd³)

Operating Weight
17,900 kg (39,460 lb)

Pride at Work

Hyundai Construction Equipment 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!



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HL760-9

Machine Walk-Around

Reliable Main Components

Engine Technology

Proven, reliable, fuel efficient, low noise HYUNDAI HE6.7 engine.
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion.
HPCR(High Pressure Common Rail) fuel system / Self-diagnostic system.
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(Manual / Light / Normal / Heavy) shift mode by working condition.
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.

Axles

Limited slip differentials (front & rear) for easy driving on variable ground condition(opt.)
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, 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.
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

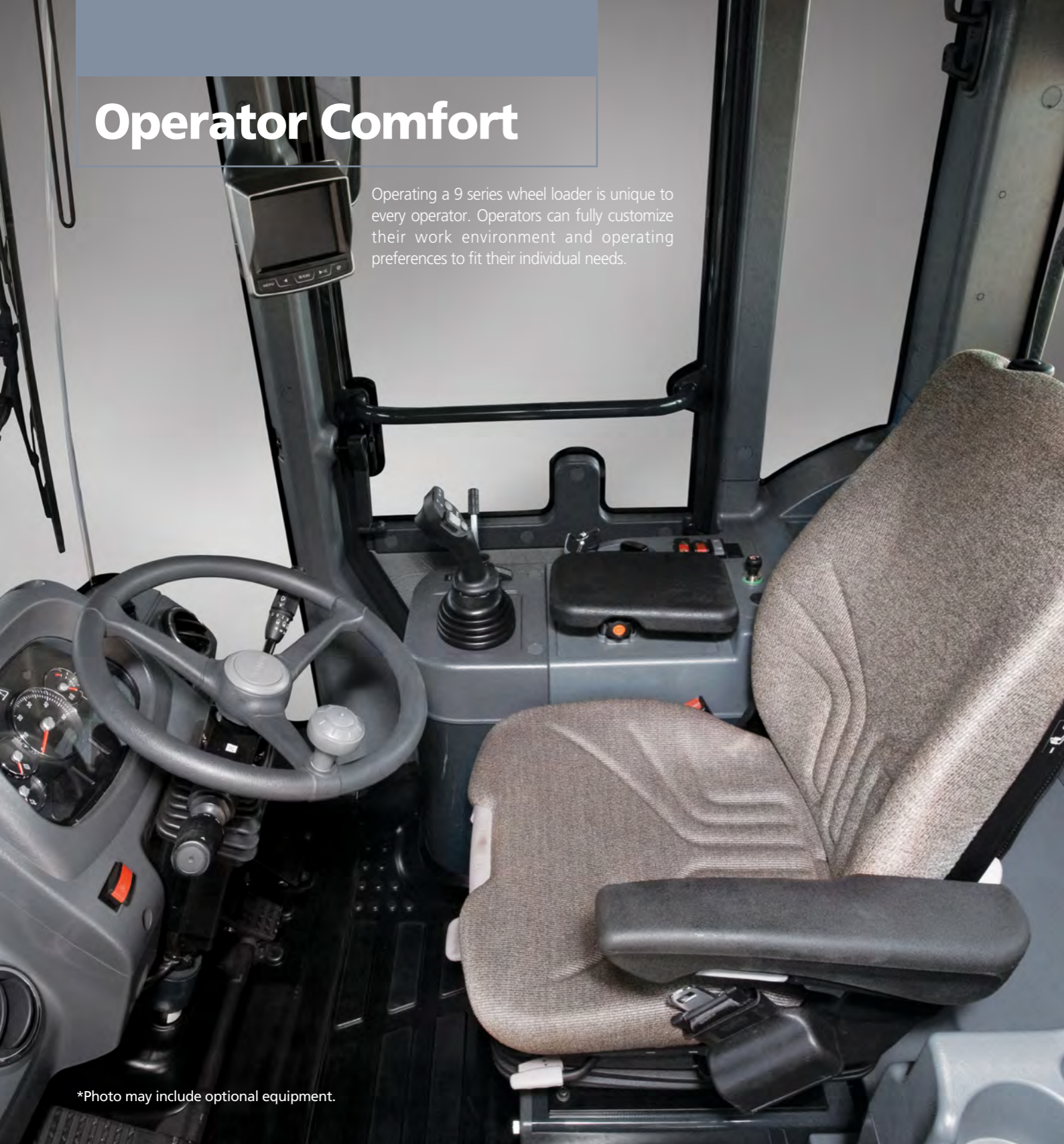
Easy-to-read new color LCD display.
Auto boom kick out and bucket positioner - fully adjustable from within the cab.
Integrated load weighing system, viewable through the monitor, for improved work efficiency and overload prevention.
Self diagnostic & monitoring system with active display of engine, hydraulic system, transmission and electrical component information.
Color, rear-view, back-up camera for improved safety and convenience.

Serviceability

Reversible remote cooling fan for the minimum fuel consumption and low noise.
Ground level of service points and sight gauges for easy maintenance.
Extended life of hydraulic filter & oil to reduce operating costs.

Operator Comfort

Operating a 9 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 was conceived for more space, a wider field of view and operator comfort. The front glass is rounded and 17% wider than the previous 7A series. Special attention was given to a clean, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of cab ergonomics puts the operator in the perfect position to work safely and securely. The 9 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 on the front and rear windows and a PTC (electric pre-heater) make working in cold weather more hospitable.

Operator Comfort

In the 9 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 on 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 during cold weather conditions.



Tilting / telescopic steering column

Reduced Stress

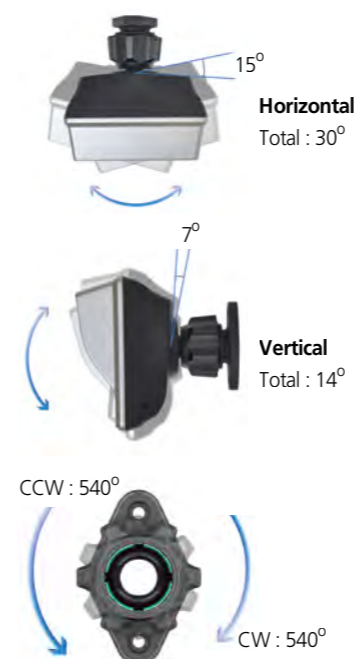
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio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

Advanced Color Monitor



The advanced new monitor with 5.7 inch wide color LCD screen allows the operator to easily and efficiently control the machine. The operator can adjust boom kick-out and bucket position via switches overhead 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 mount to reduce glare and position according to operator preference.

Monitor Tilt Range



Precision & Performance

Innovative hydraulic system technologies make the 9 series wheel loader fast, smooth and easy to control. 9 series wheel loaders are 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 volume piston pump and closed center main control valve, provide efficient hydraulic power and additional energy savings. Service and clean-out are easier on the 9 series, now equipped with a completely redesigned, parallel-mounted, cooler configuration and non louvered fins to prevent clogging. All coolers are designed with aluminum bar plate configuration and undergo strict factory tests for thermal shock, impulse and vibration to assure long term durability. Top mounted non-louvered aluminum air condenser and variable displacement A/C compressor are designed for maximum cooling capacity, energy savings and easy cleanout. Additionally, the redesigned steering cylinder lug and bucket link, are now cast steel for additional strength and reliability.

Variable Operating Modes



9 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, if equipped with the optional ride control system, the operator has the option to turn the system on or off with an overhead switch. The ride control system has a shock absorbing accumulator that cushions the boom, improves operator comfort and reduces material loss. The versatility of the 9 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 : Slope ground



Eco-friendly HYUNDAI HE 6.7 ENGINE

HYUNDAI HE6.7 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. **HYUNDAI HE6.7** Cummins engine complies with current emissions standards including EPA Tier3 and EU Stage III-A.



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 fault history are recorded and accessible through the monitor.

*Photo may include optional equipment.

Profitability

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



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. This new fan design contributes to reduced fuel consumption and machine noise. The fan is designed to auto reverse periodically or manually reverse to keep debris from accumulating on the coolers.



Easy Access

The engine fan is integrated into the rear door which swings open to over 45 degrees for easy access and regular maintenance. Conveniently located coolant and 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 on the 9 series.



Full Fenders and Mud Guards (Option)

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



Hydraulic filter
(1,000 hr)



Hydraulic Oil
(5,000 hr)

Extended Life Components

The 9 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.

*Photo may include optional equipment.

Specifications & Dimensions

ENGINE

| | |
|-------------------------|--|
| Maker/Model | HYUNDAI HE6.7 |
| type | Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine |
| Gross power | 215 HP(160 kW) / 2,100rpm |
| net power | 212 HP(158 kW) / 2,100rpm |
| Max. power | 217 HP(162 kW) / 1,900rpm |
| Maximum torque | 97 kg-m(700 lb-ft) / 1,500rpm |
| no. of cylinders | 6 |

※ No derating for continuous operating required up to 3,048m (10,000ft). This engine meets the EPA(Tier III) / EU(Stage III-A) Emission regulation.

| | |
|--------------------------|---------------------------------|
| Bore x Stroke | 107 mm (4.21") x 124 mm (4.88") |
| Displacement | 6.7ℓ (409 cu in) |
| Compression ratio | 17.2 : 1 |
| Air cleaner | Dry, Two stages dual elements |
| Alternator | 24V, 70 Amp |
| Battery | 2 x 12V, 130 Ah. |
| Starting motor | 24V, 3.7 kW |

TRANSMISSION

| | |
|------------------------------|---------------------------------------|
| Torque converter type | 3-elements, single-stage single-phase |
| Tire | 23.5-25, 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) |
| Forward | 1st | 6.9(4.3) |
| | 2nd | 12.0(7.5) |
| | 3rd | 24.0(14.9) |
| | 4th | 38.1(23.7) |
| Reverse | 1st | 6.7(4.2) |
| | 2nd | 12.6(7.8) |
| | 3rd | 25.2(15.7) |

AXLES

| | |
|------------------------------|--|
| Drive system | Four-wheel drive system |
| Mount | Rigid front axle and oscillating rear axle |
| Rear axle oscillation | ±11° (total 22°) |

| | |
|------------------------|----------------------------------|
| Hub reduction | Planetary reduction at wheel end |
| Differential | Conventional |
| Reduction ratio | 24.666 |

HYDRAULIC SYSTEM

| | |
|------------------------|---|
| Type | Load-sensing hydraulic system |
| Pump | Variable axial piston pump, 244 liters/min (64.5 gal/min)@governed rpm |
| Control valve | 2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type |
| System pressure | 280 kgf/cm ² (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. |
| Cylinders | Type : Double acting No. of cylinders-bore x stroke; HL760-9 Lift 2-140 mm(5.5") x 757 mm(29.8") HL760XT-9 Tilt 1-160 mm(6.2") x 530 mm(20.8") Tilt 1-160 mm(6.2") x 515 mm(20.3") | |
| Cycle Time | Raise : 5.8 sec Dump : 1.2 sec Lower : 3.1 sec Total : 10.1 sec | |

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

SERVICE REFILL CAPACITIES

| | |
|-----------------------|-------------------------|
| Fuel tank | 334 liters (88.2 USgal) |
| Cooling system | 39 liters (10.3 USgal) |
| Crankcase | 18 liters (4.8 USgal) |
| Transmission | 32 liters (8.5 USgal) |

OVERVIEW

| Description | unit | 760-9 | HL760XT-9 |
|-----------------------|--|-----------------|-----------------|
| Operating weight | kg (lb) | 17,900 (39,460) | 18,700 (41,230) |
| Bucket capacity | Heaped m ³ (yd ³) | 3.3 (4.3) | 3.3 (4.3) |
| | Struck m ³ (yd ³) | 2.8 (3.7) | 2.8 (3.7) |
| Breakout force-bucket | kg (lb) | 16,230 (35,780) | 15,820 (34,880) |
| Tipping load | Straight kg (lb) | 13,840 (30,510) | 12,200 (26,900) |
| | Full turn kg (lb) | 12,100 (26,680) | 10,500 (23,150) |

STEERING SYSTEM

| | | |
|-----------------------------|---|---------------------------|
| Type | Load-sensing hydrostatic articulated steering | |
| Pump | Piston pump, 132 ℓ/min (34.9 gal/min) | |
| Relief Valve Setting | 250 kg/cm ² (3,555 psi) | |
| Cylinder | Type | Double acting |
| | Bore x Stroke | 75mm(2.9") x 440mm(17.3") |
| Steering Angle | 40°(each direction) | |

Features

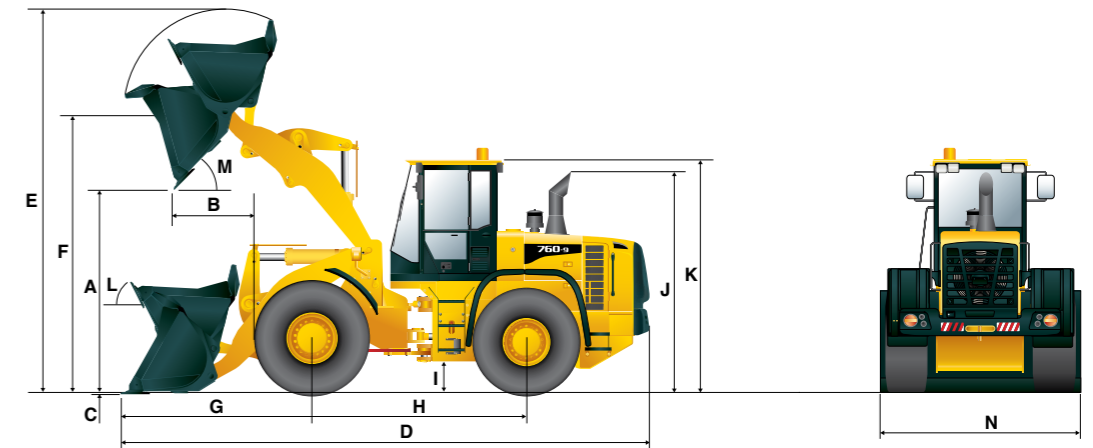
- Center-point frame articulation. - Tilt and telescopic steering column.

| | |
|--|-------------------------|
| Front axle | 35 liters (9.2 USgal) |
| Rear axle | 35 liters (9.2 USgal) |
| Hydraulic tank | 178 liters (47 USgal) |
| Hydraulic system (including tank) | 252 liters (66.6 USgal) |

TIRES

| | |
|------------------------|-------------------------------------|
| type | Tubeless, loader design tires |
| Standard | 23.5-25, 20 PR, L3 |
| Options include | 20.5-25, 16 PR, L3 |
| | 23.5-25, 20 PR, L5 23.5 R25 XHA* |

DIMENSIONS



| Description | unit | HL760-9 | HL760XT-9 |
|--|------------|--------------------------------------|-----------------|
| Bucket Type | | General purpose bolt-on cutting edge | |
| A. Dumping clearance at max. height and 45° dump angle | mm (ft-in) | 2,970 (9' 9") | 3,460 (11' 4") |
| B. Reach | Full lift | mm (ft-in) | 1,220 (4') |
| | 7ft height | mm (ft-in) | 1,790 (5' 10") |
| C. Digging depth | mm (in) | 90 (3.5") | 86 (3.4") |
| D. Overall length | 7ft height | mm (ft-in) | 8,100 (26' 7") |
| | Full turn | mm (ft-in) | 8,030 (26' 4") |
| E. Overall height (fully raised) | mm (ft-in) | 5,575 (18' 3") | 6,060 (19' 11") |
| F. Bucket pivot max. height | mm (ft-in) | 4,105 (13' 6") | 4,600 (15' 1") |
| G. Front overhang | mm (ft-in) | 2,780 (9' 1") | 3,245 (10' 8") |

| Description | unit | HL760-9 | HL760XT-9 |
|------------------------|----------------|-----------------|-----------------|
| H. Wheelbase | mm (ft-in) | 3,300 (10' 10") | 3,300 (10' 10") |
| I. Ground clearance | mm (ft-in) | 420 (1' 5") | 420 (1' 5") |
| J. Height over exhaust | mm (ft-in) | 2,960 (9' 9") | 2,960 (9' 9") |
| K. Height over cab | mm (ft-in) | 3,450 (11' 4") | 3,450 (11' 4") |
| L. Roll-back angle | on ground | deg | 42 |
| | at carry | deg | 47 |
| M. Dump angle | deg | 47 | 47 |
| Clearance circle | mm (ft-in) | 13,130 (43' 1") | 13,560 (44' 6") |
| N. Overall width | with bucket | mm (ft-in) | 2,900 (9' 6") |
| | without bucket | mm (ft-in) | 2,770 (9' 1") |