

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!

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.

*Photo may include optional equipment.

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.

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

Wrist rest

FNR switch

Front sunshade

Heated side mirrors

AM/FM Radio with MP3/ AC control

Reduced Stress

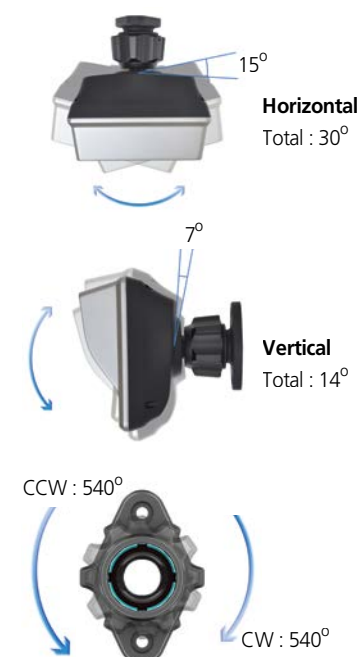
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio 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



*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.



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



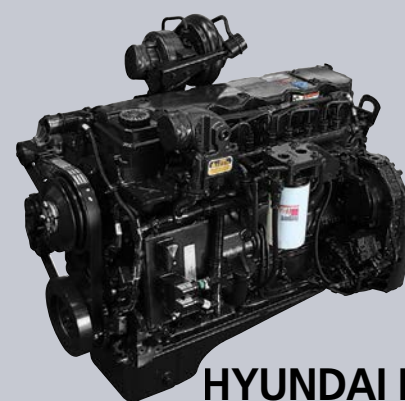
9 series wheel loaders are designed to allow the operator to customize the machine's engine power, automatic transmission shift timing and clutch cut-off activation based on the job condition and personal operator preference. Convenient rotary type switches allow for easy adjustment of engine power mode, 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.



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.



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.



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.

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.

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

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/cm² (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; Lift 2-140 mm(5.5") x 757 mm(29.8") 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.

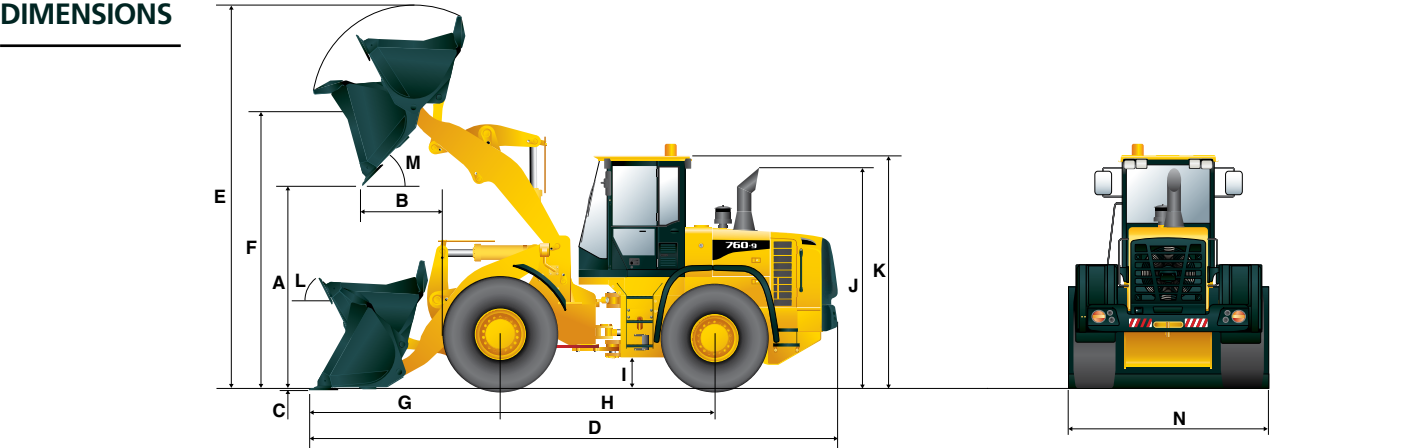
SERVICE REFILL CAPACITIES

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	m³(yd³) 3.3 (4.3)	3.3 (4.3)
	Struck	m³(yd³) 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)

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')	1,235 (4' 1")
	7ft height	mm (ft-in) 1,790 (5' 10")	2,195 (7' 2")
C. Digging depth	mm (in)	90 (3.5")	86 (3.4")
D. Overall length	7ft height	mm (ft-in) 8,100 (26' 7")	8,660 (28' 5")
	Full turn	mm (ft-in) 8,030 (26' 4")	8,600 (28' 3")
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")

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*