

MOVING YOU **FURTHER**

HL760-9S

With Tier 2 Engine installed



*Photo may include optional equipment.

U-G MAQUINARIAS
U-GUIL

 **HYUNDAI**
CONSTRUCTION EQUIPMENT

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!



*Photo may include optional equipment.

HL760-9s

Machine Walk-Around

Reliable Main Components

Engine Technology

Well proven, reliable, fuel efficient, low noise HYUNDAI HM8.3 Engine
Robust Bosch in-line mechanical fuel injection pump.
-The most durable fuel system in the most harshest working environments.

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

Axle

Self-adjusting & wheel speed wet disc brake

Improved Durability

Long-life cooling system, designed for additional durability, resistant to thermal shock, impulse and vibration.

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, non-slip cast steps for safer access and exit from the cab.

Advanced 5.7" Color Monitor

Easy-to-read new color LCD display.
Self diagnostic & monitoring system with active display of hydraulic system, transmission and electrical component information.
Color, rear-view, back-up camera for improved safety and convenience.

Serviceability

Reversible, swing-out, cooling fan for easy service and improved cooler maintenance.
Ground level access to critical service points, filters and sight gauges for easy maintenance.



Operator Comfort

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



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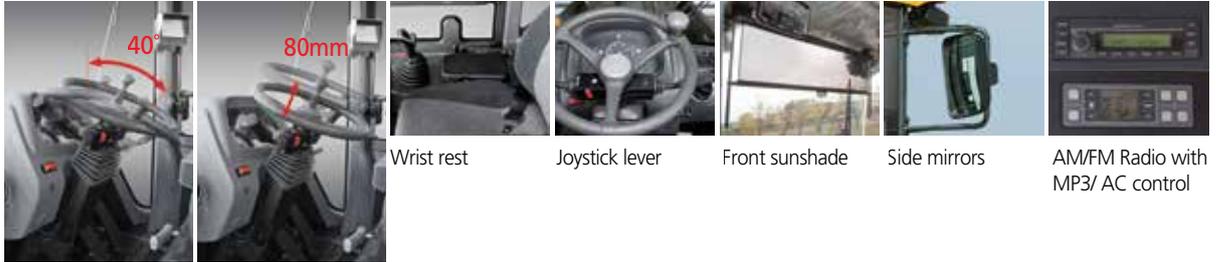


Wide and Convenient Cab

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 9S 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, Option) make working in cold weather more hospitable.

Operator Comfort

In the 9S 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. Roller type sunshades on the front & 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(OPT)

Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9S 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. 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 9S series wheel loader fast, smooth and easy to control. 9S series wheel loaders are 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 that automatically regulate disc clearance, reduce service time and improve brake reliability and performance. Service and clean-out are easier on the 9S 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 clean-out.

Variable Operating Modes



9S series wheel loaders are designed to allow the operator to customize 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 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 9S series operating modes contributes to improved productivity, enhanced operator comfort and reduced fuel consumption.

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 HM 8.3

Hyundai HM8.3 Engine meets all current Tier2 / Stage2 standards. Hyundai HM8.3 Engines have been proven durable and reliable in some of the most remote locations and harshest working environments in the world. A robust in-line fuel pump delivers more power at high injection pressure for cleaner combustion and lower emission.



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.

Profitability

9S 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.



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 9S series.



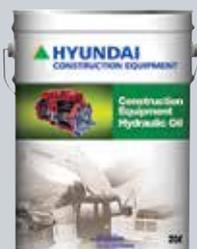
Remote-mounted Cooling Fan

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. (Option: 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)

9S 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 Oil
(5,000 hr)

Extended Life Components

The 9S series is designed for longer lubrication intervals and extended component life. 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

Maker/Model	HYUNDAI HM 8.3
Type	4-cycle, turbocharged, charge aircooled direct injection, diesel engine
Gross power	215 HP(160 kW) / 2,200rpm
Net power	205 HP(153 kW) / 2,200rpm
Max. power	225 HP(168 kW) / 2,000rpm
Maximum torque	975 N.m(719 lb-ft) / 1,400rpm
No. of cylinders	6
Bore x Stroke	114 mm (4.49") x 135 mm (5.31")
Displacement	8.3ℓ (506 cu in)
Compression ratio	18 : 1
Air cleaner	Dry, dual elements
Alternator	24V, 70 Amp
Battery	2 x 12V
Starting motor	24V, 7.5 kW

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

TRANSMISSION

Torque converter type	3-elements, single-stage single-phase
Tire	23.5 R25, 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	6.4(4.0)
	2nd	12.1(7.5)
	3rd	24.2(15.0)
	4th	38.4(23.9)
Reverse	1st	6.8(4.2)
	2nd	12.8(8.0)
	3rd	25.4(15.8)

AXLES

Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	± 12° (total 24°)
Hub reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction ratio	24.666

HYDRAULIC SYSTEM

Type	Open centered, tandem circuit system pilot operated controls	
Pump	Gear type, 302 liters/min (79.8 gal/min)@governed rpm	
Control valve	2 Spool (Bucket, Boom) 3 Spool (Bucket, Boom, Aux)	
System pressure	210 kgf/cm ² (2,986psi)	
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; HL760-9S Lift 2-160 mm(6.3") x 757 mm(29.8") HL760XTD-9S Tilt 1-180 mm(7.1") x 530 mm(20.8") Tilt 1-180 mm(7.1") x 515 mm(20.3")	
Cycle Time	Raise : 6.2 sec Dump : 1.4 sec Lower : 3.0 sec Total : 10.6 sec	

AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a.

(Global Warming Potential : 1430)

The system hold 0.85kg refrigerant consisting of a CO₂ equivalent 1.22kg metric tonne. For more information, Please refer to the manual.

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.

STEERING SYSTEM

Type	Load sensing hydrostatic articulated steering		
Pump	Gear type, 178 liters/min (47 gal/min)		
Relief Valve Setting	210 kg/cm ² (2,986 psi)		
Cylinder	Type	Double acting	
	Bore x Stroke	80mm(2.9") x 440mm(17.3")	
Steering Angle	40°(each direction)		

Features

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

SERVICE REFILL CAPACITIES

Fuel tank	263 liters (69.5 USgal)
Cooling system	39 liters (10.3 USgal)
Crankcase	20 liters (5.3 USgal)
Transmission	32 liters (8.5 USgal)

Front axle	35 liters (9.2 USgal)
Rear axle	35 liters (9.2 USgal)
Hydraulic tank	163 liters (43.1 USgal)
Hydraulic system (including tank)	260 liters (68.7 USgal)

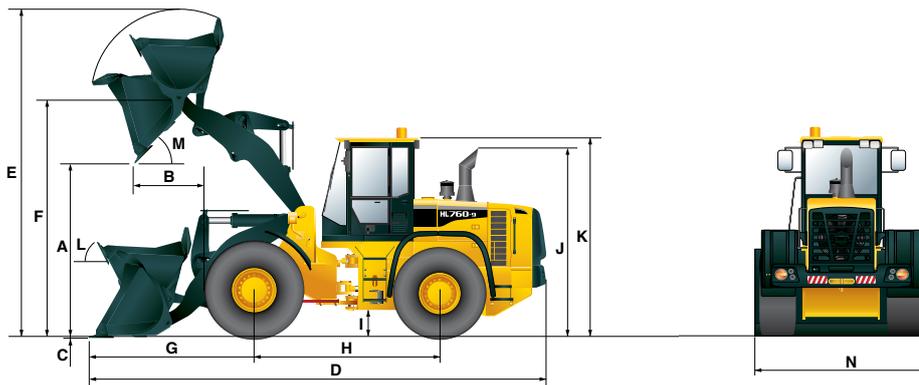
OVERVIEW

Description	UNIT	HL760-9S	HL760XTD-9S
Operating weight	kg (lb)	17,600 (38,800)	18,400 (40,560)
Bucket capacity	Heaped	m ³ (yd ³)	3.1 (4.0)
	Struck	m ³ (yd ³)	2.7 (3.5)
Breakout force-bucket	kg (lb)	15,950 (35,160)	15,650 (34,500)
Tipping load	Straight	kg (lb)	13,950 (30,750)
	Full turn	kg (lb)	12,060 (26,590)

TIRES

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

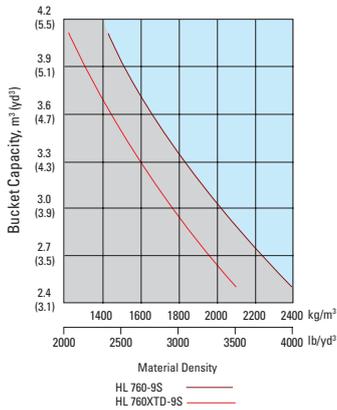
DIMENSIONS



Description	UNIT	HL760-9S	HL760XTD-9S
Bucket Type	General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	3,000 (9' 10")	3,490 (11' 5")
B. Reach	Full lift	mm (ft-in)	1,190 (3' 11")
	7ft height	mm (ft-in)	1,720 (5' 8")
C. Digging depth	mm (in)	90 (3.5")	90 (3.5")
D. Overall length	on ground	mm (ft-in)	8,065 (26' 6")
	at carry	mm (ft-in)	8,000 (26' 3")
E. Overall height (fully raised)	mm (ft-in)	5,540 (18' 2")	6,030 (19' 9")
F. Bucket pivot max. height	mm (ft-in)	4,105 (13' 6")	4,600 (15' 1")

Description	UNIT	HL760-9S	HL760XTD-9S
G. Front overhang	mm (ft-in)	2,745 (9')	3,210 (10' 6")
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)	3,290 (10' 10")	3,290 (10' 10")
K. Height over cab	mm (ft-in)	3,485 (11' 5")	3,440 (11' 3")
L. Roll-back angle	on ground	deg	42
	at carry	deg	47
M. Dump angle	deg	47	47
Clearance circle	mm (ft-in)	13,120 (43' 1")	13,590 (44' 7")
N. Overall width	with bucket	mm (ft-in)	2,900 (9' 6")
	without bucket	mm (ft-in)	2,770 (9' 1")

BUCKET SELECTION GUIDE



SUPPLEMENTAL SPECIFICATIONS

Description	Change in operating weight kg(lb)	Change in static tipping load-straight kg(lb)	Change in static tipping load-40° turn kg(lb)
20.5-25 16PR L3	-872 (-1,922)	-670 (-1,470)	-590 (-1,300)
23.5 R25 XHA*	+8 (+18)	+6 (+13)	+5 (+11)

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, maintenance-free 900 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
 - LED dome light
 - 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
- Starter, electric
- Starting and charging system (24-volt)

Cab

- ROPS(ISO 3471) / FOPS(ISO 3449) (sound suppressed and

- pressurized) with :
 - cigar lighter
 - 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
- Rear view mirrors (1 inside)
- Rear view mirrors (2 outside)
- 2" static seat belt & adjustable mechanical suspension
- Steering column, tilt
- Steering wheel with knob
- Roller type sunshade (front)
- Tinted safety glass
- Two door cab
- Magazine pocket
- Pedals
 - one accelerator pedal
 - one brake pedal
- Radio/USB player
- Rubber floor mat
- Wrist rest

Engine

- Antifreeze

- Engine, HYUNDAI HM8.3
 - Low Emission Diesel, Tier-II
- Engine enclosure, lockable
- Engine fuel priming pump
- Fan guard
- Fuel/water separator
- Muffler, under hood with large exhaust stack
- Rain cap, engine air intake
- Radiator
- Starting aid (air intake heater)

Power Train

- Brakes : Service, enclosed wet-disc
- Parking brake
- Torque converter
- Transmission, computer-controlled, electronic soft shift, auto-shift and kick-down features included
- Transmission oil cooler

Hydraulics

- Bucket positioner, automatic
- Diagnostic pressure taps
- Hydraulic oil cooler
- Hydraulic system,
 - 2 spool, single lever, pilot control for boom and bucket actuation
- Steering, load-sensing
- Remote cooling fan, hydraulically-driven,

- temperature sensing type

Others

- Articulation locking bar
- Bucket
 - 3.1 m³ Cutting edge, bolt-on type
- Coolant level sight gauge
- Counterweight
- Door and cab locks, one key
- Doors, service access(locking)
- Drawbar with pin
- Engine oil level dipstick gauge
- Ergonomically located and slip resistant, left & right
 - handrails
 - ladders
 - platforms
 - steps
- Fenders(front / rear)
- Hydraulic oil level sight gauge
- Lift and tie-down hooks
- Loader linkage, sealed Z-bar design
- TiresTires(23.5-25,20PR,L3)
- Transmission oil site level
- Vandalism protection caplocks

OPTIONAL EQUIPMENT

- 24-volt to 12-volt DC converter
- Beacon light, rotating
 - 3.0m³ 1 piece tooth, bolt-on type
 - 3.0m³ 2 piece tooth, bolt-on type
 - 3.2m³ 1 piece tooth, bolt-on type
 - 3.2m³ 2 piece tooth, bolt-on type
 - 3.3m³ Cutting edge, bolt-on type
 - 3.5m³ 1 piece tooth, bolt-on type
 - 3.5m³ 2 piece tooth, bolt-on type
- Pallet Fork, Pin on type
- Additional, 4 working lights on front/rear roof

- Secondary steering system
- Fire extinguisher
- High lift arrangement with optional counterweight, 1,600kg (3,530 lb)
- 3rd spool for auxiliary function
- Extra piping for auxiliary function
- Mud guard
- Heated rear view mirrors (2 outside)
- Reversible cooling fan
- Finger tip lever - 2 spool

- Finger tip lever - 3 spool
- 2 Lever(Joystick) - 3 spool
- Ride control system
- Seat
 - 2" static seat belt & adjustable mechanical suspension
 - 2" static seat belt & adjustable mechanical suspension
 - 3" retractable seat belt & adjustable air suspension (heated)

- Tires :
 - 20.5 - 25, 16PR, L3
 - 23.5 - 25, 20PR, L5
 - 23.5 - 25, 20PR, L3
 - 23.5 R25,XHA*
 - 23.5 R25,L3
- Tool kit
- Guards
 - crankcase
 - transmission
- Wheel chock
- Pre-cleaner, engine air intake

- License plate & lamp
- Hi-Mate (Remote Management System)
 - Mobile / Satellite
- Rearview camera
- Limited slip differential
- Fuel warmer
- Roller types sunshade (rear)
- Tilt only steering column
- Auto grease system

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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