

HL970

With Tier 4 Final / Stage IV Engine installed

* Photo may include optional equipment.



Head Office(Sales Office)
14F, GLOBAL R&D CENTER, 477 BUNDANG SUSEO-RO, BUNDANG-GU, SEONGNAM-SI, GYEONGGI-DO, 13553, KOREA

PLEASE CONTACT

Gross Power
311 HP (232kw) / 2,100 rpm

Net Power
308HP (230 kw) / 2,100 rpm

Travel Speed
40.0km/hr (24.9 mph)

Operating Weight
23,500 kg / 51,809 lb



RULE THE GROUND

The HL900 Series wheel loaders are products of Hyundai's spirit of initiative, creativity, and strong drive. Hyundai's engineering experts have worked tirelessly to offer a zero-defect product. The new HL900 Series reflects customers' needs in the field gleaned by thorough monitoring. They maximize performance proven by rigorous field tests and quality control. The HL900 Series exceeds customers' expectations! Become a true leader on the ground with Hyundai's HL900 Series.



*Photo may include optional equipment.

RULE THE GROUND

HL970

The HL900 Series exceeds customer's expectation!
Become a true leader on the ground with Hyundai's HL900 Series.



WORK MAX, WORTH MAX

- ECO Gauge
- ECO Pedal
- Engine Automatic Shut-Down (Option)
- Electro-Hydraulic Control (Option)
- New Weighing System
- Improved Bucket Fill Factor
- ICCO (Intelligent Clutch Cut-off)
- Hydraulic Lock Differential (Option)



MORE RELIABLE, MORE SUSTAINABLE

- Sealed Drive Line Center Bearing
- Sinter Brake Disc
- Durable Structure for After-Treatment
- Axle Oil Cooling System (Option)
- Hydraulic Hoses With Heightened Durability
- Reinforced Durability of Front and Rear Frames and Attachment



INFOTAINMENT FRONTIER

- Intelligent & Wide Touch Screen Monitor
- Audio System



MODERN COMFORT, SIMPLE AND SAFE SOLUTION

- Soft end Stop
- New Air Conditioning System
- Fully Adjustable Seat Armrest, Seat, Control Lever
- Full Sound-Proofed Spacious Cabin
- E-H Implement Control (Option)
- Fully Sealed Engine Room & Fully Openable Engine Hood
- Centralized & Easy Access to Service Points
- Consolidated Initial Maintenance Interval



*Photo may include optional equipment.



UP to 5%

greater productivity based on the 4th gear
(Compared to 9A Series)

UP to 7%

more fuel-efficient in truck loading
(Based on 5th speed T/M, Load&Carry Compared to 9A Series)

New Weighing System

The HL900 Series further improves work precision with additional weight calibration. The automatic/manual cumulative weighing function greatly enhances operating efficiency. Icons displaying weighing errors and the two-color weight value indication on the monitor enable accurate weighing to support efficient production management.

WORK MAX, WORTH MAX

New Engine for Better Performance

Unparalleled performance realized by strong power at low speed and with excellent fuel efficiency! With more powerful performance, Hyundai's HL900 Series wheel loaders are 10% more fuel-efficient. They maximize productivity, demonstrating higher value in tough environments.



Eco Gauge

Eco Gauge enable economic operation of machines. The gauge level changes color with the engine torque and fuel efficiency level. On top of that, the status of fuel consumption such as average rate and the total amount of fuel consumed are displayed. Hourly and daily based fuel consumption can be checked in the detailed menu as well.



Automatic Shut-Down of Engine (Only Button Key)

The HL900 Series turns off the engine when it enters the idling state to minimize unnecessary fuel consumption and emissions. Operators can select operating mode and idling time depending on work environments, further enhancing efficiency.

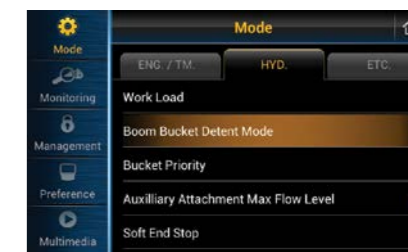
* Operating mode (one time/always/no use); idling time (2 to 40 minutes)

* Usable on button start sw (optional)



Eco Pedal

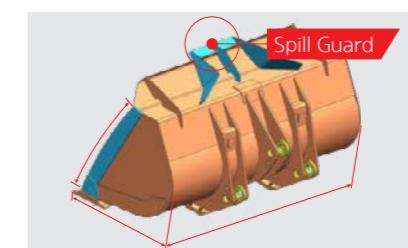
When operators use the accelerator pedal, the eco pedal, which can distinguish between economical operation and power operation, intuitively recognizes economical operation to reduce fuel consumption.



Electro-Hydraulic Control

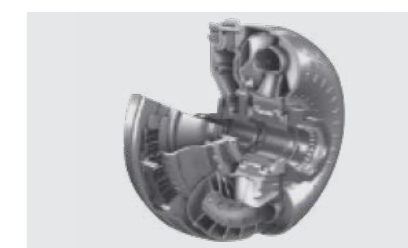
With improved precision and operability, the electro-hydraulic control system of the HL900 Series provides diverse functions and easy handling to control any working conditions, increasing productivity and reducing fatigue of operators.

* Fine operation/bucket priority / Auxiliary attachment max flow / Soft end stop



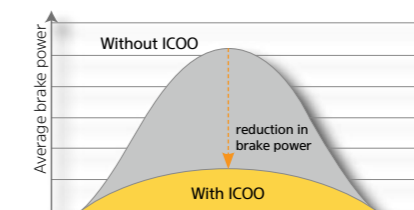
Improved Bucket Fill Factor

The bucket design was improved to increase bucket capacity and minimize spillage of loaded materials, greatly enhancing operating efficiency.



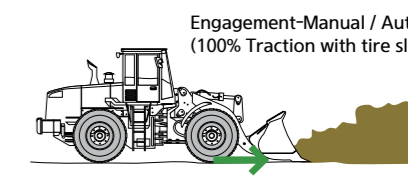
5 Speed Lock-up Clutch(Optional)

By using of 5 speed & Lock up Clutch, now operator can enjoy both the reduction of Fuel consumption and various of use in gears depends on the working condition.



ICCO (Intelligent Clutch Cut-off)

By selecting of 'H-Mode' among Clutch Cut-off selections, ICCO will be engaged for both less power loss in torque converter and lower heat generation on brake sides.



Hydraulic Lock Differential (Option)

Hydraulic Lock Differential has the advantages of both improving productivity and less fuel consumption by preventing tire slip during the operation.

MORE RELIABLE, MORE SUSTAINABLE

New Exterior Design for More Robustness and Safety

The true value of the HL900 Series, which is now far more powerful, is revealed in tough working environments. With the high-strength design structure and enduring system proven by rigorous road tests at various work sites, Hyundai's wheel loaders can perform any high-load work to maximize productivity. Durability of frames and attachments have been enhanced by 1.5 times compared to the previous generation 9-series.



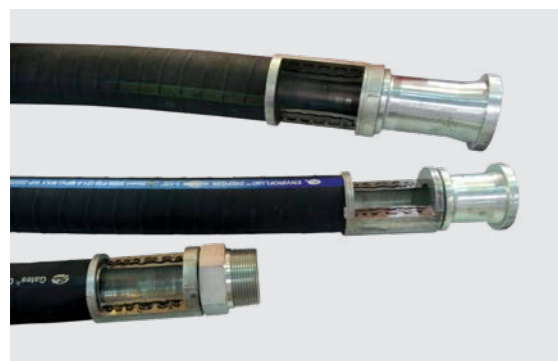
Durable Structure for After-Treatment

Hyundai's wheel loaders have a robust support and shock absorbing system to prevent failure of the aftertreatment system due to shock and vibration during operation, further improving durability.



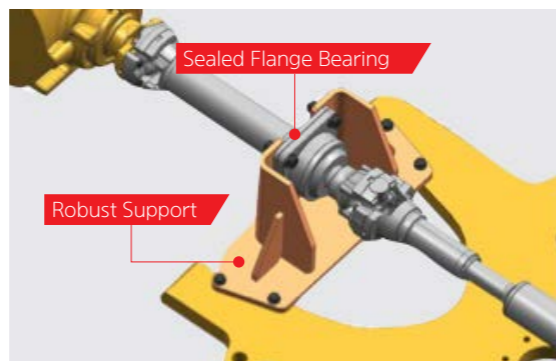
Sinter Brake Disc

The HL900 Series has a sinter disc of a new material with excellent durability to suppress generation of heat and vibration, heightening brake durability and enabling convenient maintenance with a service-friendly design.



Hydraulic Hose

Hyundai's Hydraulic hoses have twice increased durability and product life cycle over previous hoses.



Sealed Drive Line Center Bearing

Hyundai's wheel loaders prolong the service life of equipment significantly. They have a sealed drive line center bearing with robust support to retain reliability in the long term.



*Photo may include optional equipment

Axle Oil Cooling System (Option)

A separate cooling system prevents overheating of axle oil caused by frequent braking and high-load work.

Hydraulic Hoses With Heightened Durability

The new HL900 Series has hydraulic hoses with outstanding heat and pressure resistance, greatly increasing durability.



*Photo may include optional equipment.

INFOTAINMENT FRONTIER

Enhanced Instrument Panel for Easier Monitoring

The HL900 Series is optimized to enable operators to access accurate equipment data in a timely manner. This feature is more important in tough working environments to increase productivity while enjoying various forms of entertainment. Enjoy unparalleled satisfaction provided by infotainment of Hyundai's state-of-the-art information technology!



Intelligent & Wide Touch Screen Monitor

The seven-inch capacitive-type display (like a smart phone display) of the HL900 Series is larger than the previous model and provides excellent legibility. Audio AUX maximizes convenience of operators.



Audio System

The radio player, integrated Bluetooth hands-free feature, and built-in microphone allow convenient and safe phone calls while in work and in driving.



Soft end Stop

When an attachment reaches at the end stroke, it gives operator enormous shock especially for Boom up. This function gives shock free operation by reducing the speed of attachment near the end stroke. It can be selected on/off through Monitor.

Wifi Direct With Smart Phone (Smart Terminal)

The Miracast system based on WiFi of the operator's smart phone enables easy and convenient use of various features of the smart phone on the big screen including navigation, web surfing, viewing of videos, and listening to music.

MODERN COMFORT, SIMPLE AND SAFE SOLUTION

New Cabin for More Comfort

With top priority on satisfaction of operators in terms of silence, safety, and maintainability, Hyundai's wheel loaders provide comfortable cabin space for operators by low-vibration, low-noise, and superior safety design. They also offer greater satisfaction by extending the replacement cycle of supplies and minimizing maintenance time and cost.



Fully Adjustable Seat Armrest, Seat, Control Lever

The larger and more comfortable, luxurious with high quality seat (headrest standard; heated seat optional) and adjustable arm rest integrated with control levers for attachments make the cabin space comfortable and pleasant.



Full Sound-Proofed Spacious Cabin

State-of-the-art noise reduction technology of the HL900 Series ensures maximum silence (68 dB) in the same category of equipment, promising more silent and more pleasant interior space.



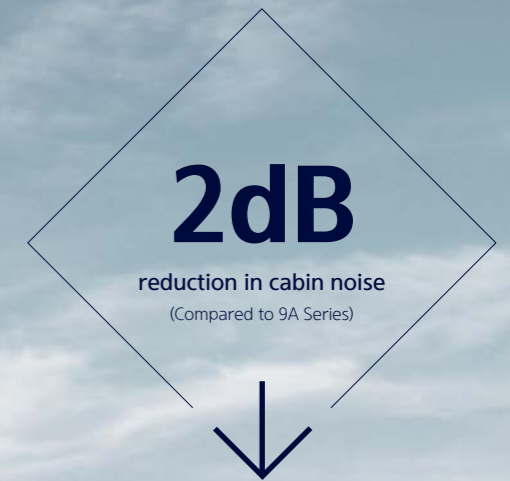
E-H Implement Control (Joystick)

Hyundai's wheel loaders have an electro-hydraulic implement control lever. Operators can operate attachments with less strength, enabling greater productivity and minimizing fatigue of operators. (Roller switch for AUX SPOOL Control)



New Air Conditioning System

Hyundai's wheel loaders maximize heating and cooling performance by optimizing air flow. The air conditioning system is placed on the right side of the cabin to ensure easy maintenance and filter replacement. The capacity of the inner filter was increased. Filter material was changed for superior filtering performance.



*Photo may include optional equipment.

Fully Sealed Engine Room & Fully Openable

The HL900 Series has improved accessibility to the sealed engine room with retractable hood to allow easy cleaning and maintenance. The engine room was designed to prevent possibility of fire due to inflow of foreign materials. The fully retractable engine hood in the electric cylinder opening mode also enhances maintainability of the engine room and cooling room.

Centralized & Easy Access to Service Points

All of the service points for the electric and hydraulic systems are located in easy to reach areas for accessibility and maintenance.

Consolidated Initial Maintenance Interval

The initial replacement cycle of oil and filter is extended to 250 hours to reduce maintenance costs.

Increased Service Life for Engine Air Filter

The HL900 Series has a large-volume air cleaner, an automatic dust ejector, and a three-stage turbo pre-cleaner (optional) to improve the replacement cycle and durability of supplies.

SPECIFICATIONS

ENGINE	
Maker/Model	SCANIA / DC09 085A
Type	Watercooled, 4-cycle, turbocharged charge aircooled, direct injection, electronic controlled diesel engine.
Gross power	311HP(232kw) / 2100 rpm
Net power	308HP(230kw) / 2100 rpm
Max. power	311HP(232kw) / 1400~2100 rpm
Maximum torque	182 kg · m(1317 lb · ft) / 1200 rpm
No. of cylinders	5
Bore x Stroke	130 mm(5.12") x 140mm(5.51")
Displacement	9.3ℓ (568 cu in)
Compression ratio	17.0 : 1
Air cleaner	Dry, Two stage dual elements
Alternator	24V - 100Amp
Battery	2 x 12V, 900 CCA
Starting motor	24V - 6.0kw

TRANSMISSION	
Torque converter type	3-Elements, Single-stage, Single phase
TIRE	26.5R25,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)	4 speed T/M	5 speed T/M with lock up clutch	
Forward	1st	7.3(4.5)	7.2(4.5)
	2nd	12.2(7.6)	12.4(7.7)
	3rd	27.2(16.9)	19.7(12.2)
	4th	40.0(24.9)	28.1(17.5)
	5th		40.0(24.9)
Reverse	1st	7.3(4.5)	7.2(4.5)
	2nd	12.2(7.6)	12.4(7.7)
	3rd	27.2(16.9)	28.1(17.5)

AXLES	
Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	Oscillation ± 11 ° of center pin-loaded
Hub reduction	Planetary reduction at wheel end
Differential	Conventional
Reduction ratio	24.666

OVERVIEW				
Description	UNIT	HL970	HL970XT	
Operating weight	kg(lb)	23,500 (51,809)	24,300 (53,572)	
Bucket capacity	Heaped	m³(yd³)	4.2(5.5)	4.2(5.5)
	Struck	m³(yd³)	3.6(4.7)	3.6(4.7)
Breakout force-bucket	kg(lb)	21,715 (47,873)	21,775 (48,006)	
Tipping load	Straight	kg(lb)	18,000 (39,683)	16,100 (35,494)
	Full turn	kg(lb)	15,580 (34,348)	13,850 (30,534)

TIRES	
Type	Tubeless, loader design tires
Standard	26.5 R25, ★, L3
Options include	26.5-25, 20PR, L3 26.5-25, 20PR, L5 26.5, R25 XHA2 23.5-25, 20PR, L3 26.5-25, 28PR, L3 26.5-25, 32PR, L3

HYDRAULIC SYSTEM	
Type	Load sensing hydraulic system
Pump	Variable displacement piston pump, 359 lpm
Control valve	2 spool (Bucket, Boom) 3 spool (Bucket, Boom, Aux)
System pressure	280 kgf/cm²
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: 2-160mm(6.3")x780mm(30.7") Tilt: 1-180mm(7.1")x565mm(22.2") Tilt: 1-180mm(7.1")x570mm(22.4")
Cycle Time	Raise: 5.7 sec Dump: 1.4 sec Lower: 3.1 sec Total: 10.2 sec

* Hyundai Bio Hydraulic Oil (HBHO) available

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.

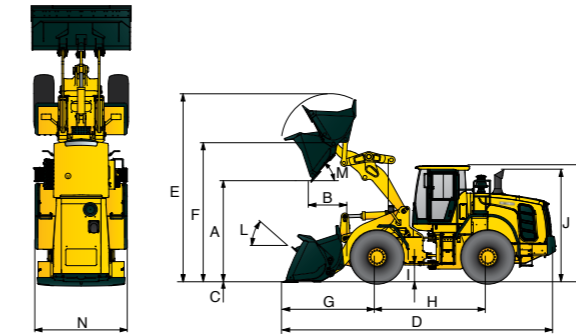
STEERING SYSTEM	
Type	Load sensing hydrostatic articulated steering
Pump	Variable displacement piston pump, 231 lpm
System Pressure	210 kgf/cm²
Cylinder	Double acting 2-95mm(3.7") x 480mm(18.9")
Steering Angle	40° to both right and left angle, respectively

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

SERVICE REFILL CAPACITIES	
Fuel tank	365 liters (96.4 USgal)
DEF tank	45 liters (11.9 USgal)
Cooling system	48 liters (12.7 USgal)
Crankcase	36 liters (9.5 USgal)
Transmission	43 liters (11.4 USgal)
Front axle	51 liters (13.5 USgal)
Rear axle	40 liters (10.6 USgal)
Hydraulic tank	152 liters (40.2 USgal)
Hydraulic system (including tank)	276 liters (72.9 USgal)

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 0.75kg refrigerant consisting of a CO ₂ equivalent 1.07kg metric tonne. For more information, Please refer to the manual.	

DIMENSIONS			
All dimensions are approximate.			



Description	UNIT	HL970	HL970XT	
Bucket Type	General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle	mm (ft-in)	3,080 (10' 1.3")	3,570 (11' 8.6")	
B. Reach	Full lift	mm (ft-in)	1,270 (4' 2.0")	1,305 (4' 3.4")
	7ft height		1,905 (6' 3.0")	2,330 (7' 7.7")
C. Digging depth	mm(ft-in)	100(3.9")	115(4.5")	
D. Overall length	on ground	mm (ft-in)	8,740 (28' 8.1")	9,280 (30' 5.4")
	at carry		8,640 (28' 4.2")	9,145 (30')

Description	UNIT	HL970	HL970XT	
E. Overall height (fully raised)	mm (ft-in)	5,970 (19' 7.0")	6,460 (21' 2.3")	
F. Bucket pivot max. height	mm (ft-in)	4,330 (14' 2.5")	4,815 (15' 9.6")	
G. Front overhang	mm (ft-in)	3,025 (9' 11.1")	3,455 (11' 4.0")	
H. Wheelbase	mm (ft-in)	3,500 (11' 5.8")	3,500 (11' 5.8")	
I. Ground clearance	mm (ft-in)	480 (1' 6.9")	480 (1' 6.9")	
J. Height over exhaust	mm (ft-in)	3,515 (11' 6.4")	3,515 (11' 6.4")	
K. Height over cab	mm (ft-in)	3,590 (11' 9.3")	3,590 (11' 9.3")	
L. Roll-back angle	on ground	deg	43	43
	at carry	deg	47	49
M. Dump angle	deg	50	50	
Clearance circle		mm (ft-in)	14,030 (46')	14,430 (47' 4")
	N. Overall width	with bucket (ft-in)	mm (ft-in)	3,100 (10' 2.1")
	without bucket (ft-in)	mm (ft-in)	2,975 (9' 9.1")	2,975 (9' 9.1")

HL970/ DENSITY OF OPERATING MATERIALS		Material Density
Loose Material		1.5~1.7
Earth/Clay		1.5~1.7
Sand and Gravel		1.6~1.7
Aggregate	25~76mm(1" to 3in) 19mm(3in) and larger	1.8

HL970/ DENSITY OF OPERATING MATERIALS		Material Density [t/m³]																		
Lift arm	Bucket	Type	m³ (yd³)	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1	2.2	2.3	2.4	2.5
Standard lift arm	General Purpose	Cutting edge	4.2(5.5)	4.8m³ (6.3yd³)												4.0m³ (5.2yd³)				
		Cutting edge	5.2(6.8)	6.0m³ (7.8yd³)												4.9m³ (6.4yd³)				
		1-Bolt on tooth	4(5.2)	4.6m³ (6.0yd³)												3.8m³ (5.0yd³)				
		1-Bolt on tooth	5.0(6.5)	5.8m³ (7.6yd³)												4.8m³ (6.3yd³)				
		2-Bolt on tooth	4.0(5.2)	4.6m³ (6.0yd³)												3.8m³ (5.0yd³)				
		2-Bolt on tooth	5.0(6.5)	5.8m³ (7.6yd³)												4.8m³ (6.3yd³)				
High lift arm (XT)	General Purpose	2-Bolt on tooth & segment edge	4.2(5.5)	4.8m³ (6.3yd³)												4.0m³ (5.2yd³)				
		Spade Nose Rock	3.7(4.8)	4.3m³ (5.7yd³)												3.5m³ (3.6yd³)				
		Cutting edge	4.2(5.5)	4.8m³ (6.3yd³)												4.0m³ (5.2yd³)				
		Cutting edge	5.2(6.8)	6.0m³ (7.8yd³)												4.9m³ (6.4yd³)				
		1-Bolt on tooth	4(5.2)	4.6m³ (6.0yd³)												3.8m³ (5.0yd³)				
		1-Bolt on tooth	5.0(6.5)	5.8m³ (7.6yd³)												4.8m³ (6.3yd³)				
High lift arm (XT)	General Purpose	2-Bolt on tooth	4.0(5.2)	4.6m³ (6.0yd³)												3.8m³ (5.0yd³)				
		2-Bolt on tooth	5.0(6.5)	5.8m³ (7.6yd³)												4.8m³ (6.3yd³)				
		2-Bolt on tooth & segment edge	4.2(5.5)	4.8m³ (6.3yd³)												4.0m³ (5.2yd³)				
		Spade Nose Rock	3.7(4.8)	4.3m³ (5.7yd³)												3.5m³ (3.6yd³)				

115% 100% 95%