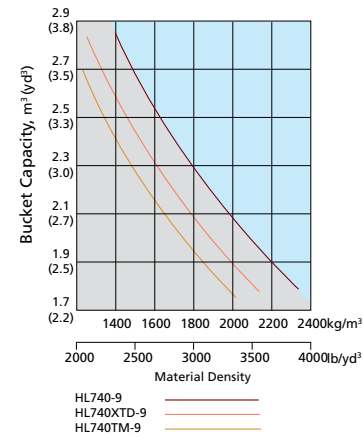


BUCKET SELECTION GUIDE



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, 850 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
- work light
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
- 2 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 rear roof
Switches
- work load
- clutch cut-off
- hazard
- Ignition key, start/stop switch
- main light(illumination and head light)
- parking
- rear wiper & washer
- work light
- battery mater switch
- pilot cut-off
Starter, electric
Starting and charging system (24-volt)
Cab
Cab, ROPS(ISO3471)/FOPS(ISO3449) (sound suppressed and pressurized) with :

- cigar lighter & ashtray
- coat hook
Automatic climate control
- air conditioner & heater
- defroster
- intermittent wiper and washer, front and rear
- personal storage space: holder, can and cup
- rear view mirrors (2 inside)
- Rear view mirrors (2 outside)
- 2" retractable seat belt & adjustable suspension seat with armrests
- tilt / telescopic steering column
- steering wheel with knob
- sunvisor (front window)
- tinted safety glass
Magazine pocket
Pedals
- one accelerator pedal
- one brake pedal
Rubber floor mat
Wrist rest
Radio/USB player
Engine
Antifreeze
Engine, Cummins QSB6.7
- low Emission Diesel, Tier-III
3 operating mode
- power/standard/econo

Engine enclosure, lockable
Engine fuel priming pump
Fan guard
Fuel/water separator
Fuel warmer
Muffler, under hood with large exhaust stack
Rain cap, engine air intake
Radiator (deaeration type)
Starting aid (air intake heater)
Water sensor on fuel filter
Power Train
Brakes : Service, enclosed wet-disc Differential, Front : limited Slip Rear : conventional
Parking brake
Torque converter
Transmission, computer-controlled, electronic soft shift, auto-shift and quick-shift features included
Transmission oil cooler
Hydraulics
Boom kickout, automatic
Bucket positioner, automatic
Diagnostic pressure taps
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
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)
Guard, bucket cylinder rod
Hydraulic oil level sight gauge
License plate bracket
Lift and tie-down hooks
Steering stops, cushioned
Tires(20.5-25, 16PR,L3)
Transmission oil site level
Vandalism protection caplocks

OPTIONAL EQUIPMENT

24-volt to 12-volt DC converter
Climate control :
- air conditioner only
- heater only
Beacon light, rotating
Auxiliary, 2 working lights on front roof
(Xenon working lights)
Auxiliary, 2 working lights on rear roof
3 piece cutting edge, bolt-on type

Differential, Rear : limited slip
Secondary steering system
Fire extinguisher
High lift arrangement with additional counterweight, 900 kg (1,980 lb)
Hydraulic control, 2 lever
Hydraulic control, 3 lever
3rd spool for auxiliary function
Joystick with travel switch(FNR)
Mud guard

Operator suit
Ride control system
Heated rear view mirrors (2 outside)
Seat
- 2" static seat belt & adjustable mechanical suspension(vinyl)
- 3" static seat belt & adjustable mechanical suspension
- 2" retractable seat belt &

adjustable air suspension (heated)
Tires :
- 17.5 - 25, 12PR, L2
- 17.5 - 25, 12PR, L3
- 20.5 - 25, 16PR, L2
- 17.5 R25 XHA
- 20.5 R25 XHA
Tool kit
Tooth, 1 piece, bolt-on type
Guards
- crankcase

- transmission
Wheel chock
HI-Mate
(Remote Management System)
Rear view camera
Dual-brake pedal
Roll-screen(rear window)
License plate & lamp
Pre-cleaner engine air intake

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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*Photo may include optional equipment.

Pride at Work

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. Take pride in your work with Hyundai!

HL740-9

Machine Walk-Around

Reliable Main Components

Engine Technology

Proven, reliable, fuel efficient, low noise Cummins Tier-III QSB6.7 engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
HPCR(High Pressure Common Rail) fuel system / Self-diagnostic system
Enhanced function of fuel pre-filter / Enhanced reliability of main parts
3 step(Power / Standard / Economy) operating mode controlled by switch

ZF Full 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

Axle

Limited slip front differential and rear conventional differential for easy driving on variable ground condition
Self-adjusting & wheel speed brake

Improved Durability

Load sensing pump with variable displacement / Closed center type load sensing MCV
Improved cooling system resistant to thermal shock, impulse and vibration
Reinforced and welding stress free cast steel steering cylinder lug & bucket link

Enhanced Operator Comfort

Improved Visibility

Enlarged cab with rounded front center glass
Good side visibility with newly applied glass on the lower door
Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade

Improved Convenience

Increased cooling & heating capacity with full auto air-con control
Tilting & telescopic steering column and adjustable wrist rest to best suit operator preferences
Various storages in the cab / Radio & USB MP3 player
Aluminum die casting ladder and step for easy and safe entry & exit

Advanced 7" Color Cluster

New color LCD display with easy to read digital gauges for hydraulic oil temperature, water temperature and fuel
Monitoring system of boom & bucket position and bucket pay load for overload prevention and work efficiency
Self diagnostic & monitoring - display condition of engine, transmission and electric devices
Rear view camera for easy and safe work
RMS(Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support

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 Preference

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 style sun screens 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.



Reduced Stress

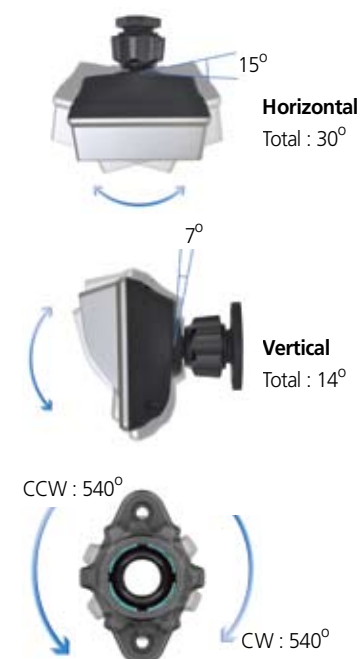
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio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

Spacious 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.



*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. 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 clean-out. 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 Cummins QSB 6.7 Engine

The CUMMINS QSB6.7 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. The QSB6.7 Cummins engine complies with current emissions standards including EPA Tier3 and EU Stage III-A.



Full 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.

Profitable

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 reduced 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	CUMMINS QSB6.7	Bore x Stroke	107 mm (4.21") x 124 mm (4.88")
Type	4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine	Displacement	6.7 ℓ (409 cu in)
Gross power	145 HP(108 kW) / 2,100rpm	Compression ratio	17.2 : 1
Net power	143 HP(107 kW) / 2,100rpm	Air cleaner	Dry, dual elements
Maximum torque	69 kg·m(499 lb·ft) / 1,400rpm	Alternator	70 Amp
No. of cylinders	6	Battery	2 x 12V, 100 Ah.
		Starting motor	24V, 3.7 kW

※ 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	Travel speed	km/h (mph)
Tire	20.5-25, L3	Forward	1st 6.7(4.2)
			2nd 12.2(7.6)
			3rd 23.8(14.8)
			4th 39.0(24.2)
		Reverse	1st 7.1(4.4)
			2nd 12.9(8.0)
			3rd 25.1(15.6)

AXLES

Drive system	Four-wheel drive system	Hub reduction	Planetary reduction at wheel end
Mount	Rigid front axle and oscillating rear axle	Differential	Front Limited Slip, Rear Conventional
Rear axle oscillation	±12° (total 24°)	Reduction ratio	22.0

HYDRAULIC SYSTEM

Type	Load-sensing hydraulic system	Bucket Controls	Type	Pilot operated lift and tilt circuit, single-lever(joystick) control standard.
Pump	Variable axial piston type, 155 liters/min (40.9 gal/min)@governed rpm	Lift Circuit		The valve has four functions ; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.
Control valve	2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type System pressure : 280 kgf/cm²(3.982PSI)	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	HL740-9/740XTD-9/740TM-9		2-ø110 mm x 738 mm(4.3" x 29.5")	
Tilt	HL740-9/740XTD-9 HL740TM-9		ø125 mm x 505 mm(4.9" x 19.9") 2-ø95 mm x 745 mm(3.7" x 29.3")	
Cycle Time		HL740-9 / HL740XTD-9	HL740TM-9	
	Raise(with load)	5.5 sec	5.5 sec	
	Dump	1.1 sec	1.6 sec	
	Lower(empty)	3.0 sec	3.0 sec	
	Total	9.6 sec	10.1 sec	

BRAKES

Service Brakes	Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-by-axle system Self adjusting & in board brake
Parking Brake	Spring-applied, hydraulically released brake in Front Axle
Emergency Brake	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

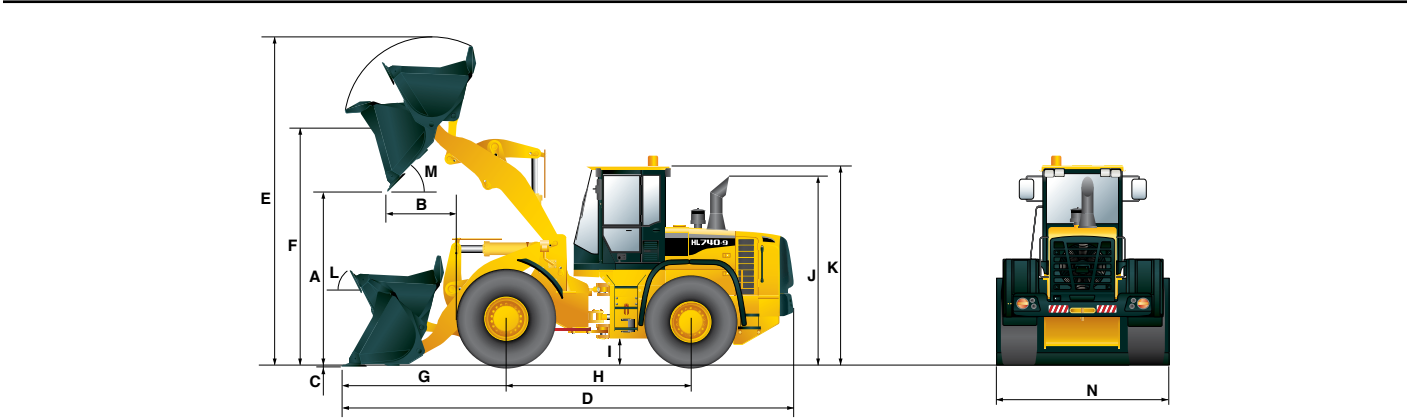
SERVICE REFILL CAPACITIES

Fuel tank	220 liters (58.1 USgal)
Cooling system	34 liters (9.0 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	25 liters (6.6 USgal)

OVERVIEW

Description	UNIT	HL740-9	HL740XTD-9	HL740TM-9
Operating weight	kg (lb)	12,000 (26,460)	12,300 (27,100)	12,600 (27,780)
Bucket capacity	Heaped	m³(yd³)	2.3 (3.0)	2.3 (3.0)
	Struck	m³(yd³)	2.0 (2.6)	2.0 (2.6)
Breakout force-bucket	kg (lb)	11,250 (24,800)	11,090 (24,450)	10,830 (23,880)
Tipping load	Straight	kg (lb)	9,600 (21,160)	8,580 (18,920)
	Full turn	kg (lb)	8,300 (18,300)	7,440 (16,400)

DIMENSIONS

				
Description	UNIT	HL740-9	HL740XTD-9	HL740TM-9
Bucket Type		General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	2,785 (9' 2")	3,210 (10' 6")	2,840 (9' 4")
B. Reach	Full lift	mm (ft-in)	1,025 (3' 4")	1,020 (3' 6")
	7ft height	mm (ft-in)	1,530 (5')	1,890 (6' 2")
C. Digging depth	mm (in)	90 (3.7")	130 (5.1")	100 (3.9")
D. Overall length	on ground	mm (ft-in)	7,380 (24' 3")	7,830 (25' 8")
	at carry	mm (ft-in)	7,320 (24')	7,780 (25' 6")
E. Overall height (fully raised)	mm (ft-in)	5,120 (16' 10")	5,540 (18' 2")	5,260 (17' 3")
F. Bucket pivot max. height	mm (ft-in)	3,820 (12' 6")	4,240 (13' 11")	3,980 (13' 1")

Description	UNIT	HL740-9	HL740XTD-9	HL740TM-9
G. Front overhang	mm (ft-in)	2,480 (8' 6")	2,890 (9' 6")	2,715 (8' 11")
H. Wheelbase	mm (ft-in)	2,900 (9' 6")	2,900 (9' 6")	2,900 (9' 6")
I. Ground clearance	mm (ft-in)	417 (1' 4")	417 (1' 4")	417 (1' 4")
J. Height over exhaust	mm (ft-in)	3,170 (10' 5")	3,170 (10' 5")	3,170 (10' 5")
K. Height over cab	mm (ft-in)	3,260 (10' 8")	3,260 (10' 8")	3,260 (10' 8")
L. Roll-back angle	on ground	deg	42	50
	at carry	deg	47	54
M. Dump angle	deg	48	47	50
Clearance circle	mm (ft-in)	11,620 (38' 1")	12,000 (39' 4")	11,665 (38' 3")
N. Overall width	mm (ft-in)	2,600 (8' 6")	2,600 (8' 6")	2,550 (8' 4")

STEERING SYSTEM

Type	Load-sensing hydrostatic articulated steering
Pump	Piston pump, 155 ℓ/min (40.9 gal/min)@governed rpm
Relief Valve Setting	210 kg/cm²(2,986 psi)
Cylinder	Type Double acting Bore x Stroke 65mm x 429mm(2.6" x 16.9")
Steering Angle	40°(each direction)

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

TIRES

Type	Tubeless, loader design tires
Standard	20.5-25, 16 PR, L3
Options include	17.5-25, 12 PR, L3 20.5-25, 16 PR, L2 20.5 R25 XHA★ 20.5-25, 16 PR, L5