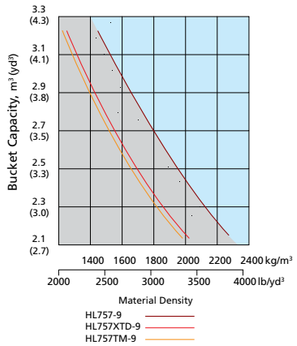
BUCKET SELECTION GUIDE



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)
17.5-25 12PR L3	-248 (-547)	-180 (-400)	-160 (-350)
20.5-25 16PR L2	-64 (-141)	-50 (-110)	-40 (-90)
20.5 R25 XHA*	+507 (+1,118)	+380 (+840)	+330 (+730)

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, 950 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 grill

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 & rear : limited slip
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 cap[illegible]

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
Secondary steering system
Fire extinguisher
High lift arrangement with additional counterweight, 840 kg (1,850 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)

Pallet Forks
Tires :
- 17.5 - 25, 12PR, L3
- 20.5 - 25, 16PR, L2
- 20.5 R25 XHA
- 20.5 - 25 1[illegible]R, L5

Tool kit
Tooth, [illegible]iece, bo[illegible]on type
Guards
- crankcas
- transmissi[illegible]

[illegible]wheel [illegible]ck
HI-M[illegible]
([illegible]note M[illegible]agement System)
[illegible] view [illegible]era
Dua[illegible]ke pedal
[illegible]Roll-screen(rear window)
[illegible]nse plate & lamp
Pre-cleaner engine air intake
Joystic steering

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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We build a better future

HL757-9

With Tier 3 Engine installed

*Photo may include optional equipment.

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

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!

*Photo may include optional equipment.

Machine Walk-Around

Reliable Main Components

Engine Technology
Proven, reliable, fuel efficient, Tier-lll Cummins 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 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

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.

*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 optimal 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 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.

Tilting / telescopic steering column


Wrist rest


FNR switch


Sun screen


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 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

Horizontal
Total : 30°

Vertical
Total : 14°

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.

*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 down time.

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.

Specifications & Dimensions

ENGINE

Maker/Model	CUMMINS QSB6.7
Type	4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	173 HP(129 kW) / 2,100rpm
Net power	170 HP(127 kW) / 2,100rpm
Maximum torque	83 kg·m(600 lb·ft) / 1,400rpm
No. of cylinders	6

Bore x Stroke	107 mm (4.21") x 124 mm (4.88")
Displacement	6.7 ℓ (409 cu in)
Compression ratio	17.2 : 1
Air cleaner	Dry, dual elements
Alternator	24V, 70 Amp
Battery	2 x 12V, 130 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
Tire	20.5-25, 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	11.4(7.1)
	3rd	23.0(14.3)
	4th	37.7(23.4)
Reverse	1st	7.3(4.5)
	2nd	12.1(7.5)
	3rd	24.2(15.0)

AXLES

Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±13° (total 26°)

Hub reduction	Planetary reduction at wheel end
Differential	Front & rear limited slip
Reduction ratio	23.680

HYDRAULIC SYSTEM

Type	Load-sensing hydraulic system
Pump	Variable axial piston type, 185 liters/min (48.9 gal/min)@governed rpm
Control valve	2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type System pressure : 280 kgf/cm²(3.982PSI)

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 HL757-9/757XTD-9/757TM-9	2-ø120 mm x 785 mm(4.7" x 30.9")
	Tilt HL757-9/757XTD-9	ø140 mm x 485 mm(5.5" x 19.0")
	HL757TM-9	2-ø110 mm x 755 mm(4.3" x 29.7")

Cycle Time	HL757-9 / HL757XTD-9	HL757TM-9
Raise(with load)	5.9 sec	5.9 sec
Dump	1.1 sec	1.8 sec
Lower(empty)	3.8 sec	3.7 sec
Total	10.8 sec	11.4 sec

BRAKES

Service Brakes	Hydraulically actuated, wet disc brakes actuate all 4 wheels. independent axle-hydraulic system Self adjusting & wheel speed 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	294 liters (77.6 USgal)
Cooling system	35 liters (9.2 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	28 liters (7.4 USgal)

Front axle	29 liters (7.7 USgal)
Rear axle	24 liters (6.3 USgal)
Hydraulic tank	155 liters (40.9 USgal)
Hydraulic system (including tank)	215 liters (56.8 USgal)

OVERVIEW

Description		UNIT	HL757-9	HL757XTD-9	HL757TM-9
Operating weight		kg (lb)	14500 (32000)	15000 (33000)	15000 (33070)
Bucket capacity	Heaped	m³(yd³)	2.7 (3.7)	2.7 (3.7)	2.7 (3.7)
	Struck	m³(yd³)	2.4 (3.1)	2.4 (3.1)	2.3 (3.0)
Breakout force-bucket		kg (lb)	12530 (27620)	12420 (27380)	12800 (28220)
Tipping load	Straight	kg (lb)	11300 (24910)	9880 (21780)	9750 (20840)
	Full turn	kg (lb)	9700 (21380)	8520 (18780)	8360 (17970)

TIRES

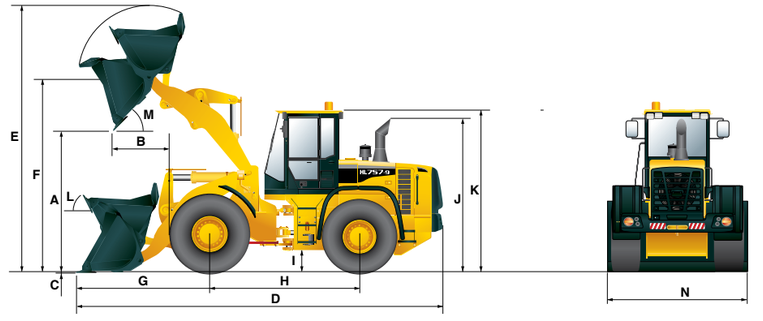
Type	Tubeless, loader design tires
Standard	20.5-25, 16 PR, L3
Options include	17.5-25, 12 PR, L3 20.5-25, 16 PR, L2 20.5 R25 XHA★ 20.5-25, 16 PR, L5

STEERING SYSTEM

Type		Load-sensing hydrostatic articulated steering
Pump		Piston pump, 105 ℓ/min (27.7 gal/min)@governed rpm
Relief Valve Setting		250 kg/cm²(3,555 psi)
Cylinder	Type	Double acting
	Bore x Stroke	65mm x (2.6") x 436mm(17.2")
Steering Angle		40°(each direction)

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

DIMENSIONS



Description		UNIT	HL757-9	HL757XTD-9	HL757TM-9
	Bucket Type		General purpose bolt-on cutting edge		
A.	Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	2,840 (9′ 4″)	3,230 (10′ 7″)	2,840 (9′ 4″)
B.	Reach, Full lift	mm (ft-in)	1,070 (3′ 6″)	1,100 (3′ 7″)	1,315 (4′ 4″)
	Reach, 7ft height	mm (ft-in)	1,610 (5′ 3″)	1,970 (6′ 6″)	1,815 (5′ 11″)
C.	Digging depth	mm (in)	85 (3.3″)	92 (3.6″)	100 (3.9″)
D.	Overall length, on ground	mm (ft-in)	7,580 (24′ 10″)	7,990 (26′ 3″)	7,780 (25′ 6″)
	Overall length, at carry	mm (ft-in)	7,480 (24′ 6″)	7,920 (26′)	7,570 (24′ 10″)
E.	Overall height (fully raised)	mm (ft-in)	5,250 (17′ 3″)	5,650 (18′ 6″)	5,410 (17′ 9″)
F.	Bucket pivot max. height	mm (ft-in)	3,920 (12′ 10″)	4,310 (14′ 2″)	4,010 (13′ 2″)

Description		UNIT	HL757-9	HL757XTD-9	HL757TM-9
G.	Front overhang	mm (ft-in)	2,560 (8′ 5″)	2,970 (9′ 9″)	2,760 (9′ 1″)
H.	Wheelbase	mm (ft-in)	3,050 (10′)	3,050 (10′)	3,050 (10′)
I.	Ground clearance	mm (ft-in)	410 (1′ 4″)	410 (1′ 4″)	410 (1′ 4″)
J.	Height over exhaust	mm (ft-in)	2,875 (9′ 5″)	2,875 (9′ 5″)	2,875 (9′ 5″)
K.	Height over cab	mm (ft-in)	3,310 (10′ 10″)	3,310 (10′ 10″)	3,310 (10′ 10″)
L.	Roll-back angle, on ground	deg	43	43	50
	Roll-back angle, at carry	deg	48	50	54
M.	Dump angle	deg	47	47	50
	Clearance circle	mm (ft-in)	12,170 (39′ 11″)	12,540 (41′ 2″)	12,250 (40′ 2″)
N.	Overall width(with / without bucket)	mm (ft-in)	2,740(9′)/2,580(8′ 6″)	2,740(9′)/2,580(8′ 6″)	2,740(9′)/2,580(8′ 6″)