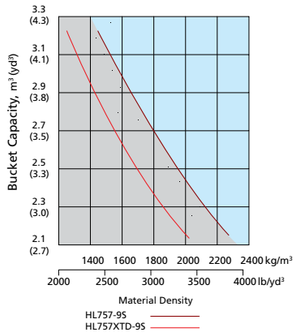
BUCKET SELECTION GUIDE



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

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
- 1 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 mater switch

Starter, electric
Starting and charging system (24-volt)
Cab
(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: holder, can and cup
- rear view mirrors (1 inside)
- rear view mirrors (2 outside)
- 2'' static seat belt & mechanical seat with armrests
- tilt only steering column
- steering wheel with knob
- roller type sunshade (front)
- tinted safety glass

Magazine pocket
Pedals
- one accelerator pedal
- one brake pedal

Rubber floor mat
Wrist rest
Radio/USB player
Engine
Antifreeze
Engine, HYUNDAI HE6.7
- Low Emission Diesel, Tier-III

3 operating mode
- power/standard/econo

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 (Deaeration type)
Starting aid (air intake heater)
Water sensor on fuel filter
Power Train
Brakes : Service, enclosed wet-disc
Parking brake
Torque converter
Transmission, computer-controlled, electronic soft shift, auto-shift and kick down-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)
Hydraulic oil level sight gauge
License plate bracket
Lift and tie-down hooks
Steering stops, cushioned
Tires(20.5 R25, L3*)
Transmission oil level gauge
Vandalism protection caplocks
3rd fuel filter

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
Tilt only steering column
ROPS / FOPS Cabin
Roller types sunshade (rear)
Secondary steering system
Fire extinguisher
High lift arrangement with optional counterweight, 840 kg (1,850 lb)
3rd spool for auxiliary function
Mud guard
Operator suit
Reversible cooling fan
Ride control system
Heated rear view mirrors (2 outside)
Finger tip lever - 2 Spool
Finger tip lever - 3 Spool
2 Lever(Joystick) - 3 Spool
Seat
- 2" static seat belt & adjustable mechanical suspension(vinyl)
- 3" retract 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, 16PR, L3

Tool kit
Tooth, 1 piece, bolt-on type
Guards
- crankcase
- transmission

Wheel chock
HI-Mate
(Remote Management System)
Rear view camera
License plate & lamp
Pre-cleaner engine air intake
Limited Slip Differential
Fuel warmer
Quick coupler piping
Auto grease piping

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

HYUNDAI CONSTRUCTION EQUIPMENT

www.hyundai-ce.com 2017. 03 Rev. 3

We build a better future

HL757-9S

With Tier 3 Engine installed

*Photo may include optional equipment.

HYUNDAI CONSTRUCTION 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!

*Photo may include optional equipment.

Machine Walk-Around

Reliable Main Components

Engine Technology
Well Proven, reliable, fuel efficient, low noise HYUNDAI HE6.7 Engine
3 Engine operating mode(Power / Standard / Econo)

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
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 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.

RMS(Remote Management System) works through GPS/satellite technology to provide better customer service and support.

Serviceability

Reversible(option), 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.

*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 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 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)

Wrist rest

Joystick lever

Front sunshade

Side mirrors

AM/FM Radio with MP3/ AC control

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 cleanout.

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 override 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.

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 HE6.7 Engine

The 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. The Hyundai HE6.7 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.

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

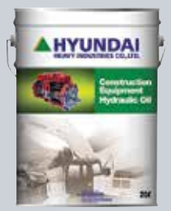
The engine fan is integrated into the rear door which swings open to over 45 degrees for easy access and regular maintenance. Conveniently located coolant and transmission oil site gauges make checking fluid levels fast and efficient. Ground-line access to fuel and oil filters grease fittings, fuses, 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 mudguards 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 HE6.7
Type	4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	173 HP(129 kW) / 2,100rpm
Net power	164 HP(122 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, 4.8 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 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	6.9(4.3)
	2nd	11.4(7.1)
	3rd	22.7(14.1)
	4th	36.0(22.4)
Reverse	1st	7.2(4.5)
	2nd	12.0(7.5)
	3rd	23.8(14.9)

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	23.680

HYDRAULIC SYSTEM

Type		Open-centered, tandem circuit system, pilot-operated controls
Pump		Gear type, 225 liters/min 59.4 gal/min
Control valve		2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type System pressure : 210 kgf/cm²(2,986 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	HL757-9S/757XTD-9S	2-ø140 mm x 750 mm(5.5" x 29.5")
Tilt	HL757-9S/757XTD-9S	ø160 mm x 475 mm(6.3" x 18.7")
Cycle Time		HL757-9S / HL757XTD-9S
	Raise(with load)	6.0 sec
	Dump	1.2 sec
	Lower(empty)	3.1 sec
	Total	10.3 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 CO_2 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		Helical gear type, 112.5 ℓ/min (29.7 gal/min)@governed rpm
Relief Valve Setting		210 kg/cm²(2,986 psi)
Cylinder	Type	Double acting
	Bore x Stroke	70mm (2.8") x 436mm (17.2")
Steering Angle		40°(each direction)

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

SERVICE REFILL CAPACITIES

Fuel tank	246 liters (65 USgal)
Cooling system	35 liters (9.2 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	28 liters (7.4 USgal)
Front axle	32 liters (8.5 USgal)
Rear axle	24 liters (6.3 USgal)
Hydraulic tank	155 liters (40.9 USgal)
Hydraulic system (including tank)	215 liters (56.8 USgal)

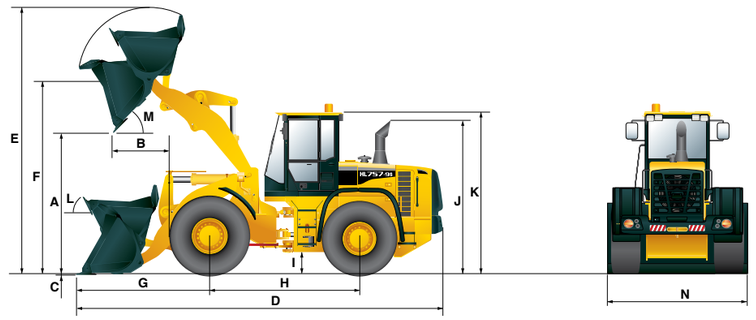
OVERVIEW

Description		**UNIT**	**HL757-9S**	**HL757XTD-9S**
Operating weight		kg (lb)	14,000 (30,860)	14,500 (31,970)
Bucket capacity	Heaped	m³(yd³)	2.7 (3.5)	2.7 (3.5)
	Struck	m³(yd³)	2.3 (3.0)	2.3 (3.0)
Breakout force-bucket		kg (lb)	12,720 (28,040)	12,560 (27,690)
Tipping load	Straight	kg (lb)	11,100 (24,470)	9,680 (21,340)
	Full turn	kg (lb)	9,730 (21,450)	8,450 (18,630)

TIRES

Type	Tubeless, loader design tires
Standard	20.5 R25, 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

DIMENSIONS



Description		**UNIT**	**HL757-9S**	**HL757XTD-9S**
Bucket Type			General purpose bolt-on cutting edge	
A. Dumping clearance at max. height and 45° dump angle.		mm (ft-in)	2,860 (9′ 5″)	3,270 (10′ 9″)
B. Reach	Full lift	mm (ft-in)	1,040 (3′ 5″)	1,060 (3′ 6″)
	7ft height	mm (ft-in)	1,590 (5′ 3″)	1,950 (6′ 5″)
C. Digging depth		mm (in)	95 (3.7″)	130 (5.1″)
D. Overall length	on ground	mm (ft-in)	7,540 (24′ 9″)	7,970 (26′ 2″)
	at carry	mm (ft-in)	7,480 (24′ 6″)	7,940 (26′ 1″)
E. Overall height (fully raised)		mm (ft-in)	5,250 (17′ 3″)	5,650 (18′ 6″)
F. Bucket pivot max. height		mm (ft-in)	3,910 (12′ 10″)	4,320 (14′ 2″)

Description		**UNIT**	**HL757-9S**	**HL757XTD-9S**
G. Front overhang		mm (ft-in)	2,520 (8′ 3″)	2,930 (9′ 7″)
H. Wheelbase		mm (ft-in)	3,050 (10′)	3,050 (10′)
I. Ground clearance		mm (ft-in)	410 (1′ 4″)	410 (1′ 4″)
J. Height over exhaust		mm (ft-in)	2,785 (9′ 5″)	2,785 (9′ 5″)
K. Height over cab		mm (ft-in)	3,400 (11′ 2″)	3,400 (11′ 2″)
L. Roll-back angle	on ground	deg	41	41
	at carry	deg	46	48
M. Dump angle		deg	47	47
Clearance circle		mm (ft-in)	12,350 (40′ 6″)	12,720 (41′ 9″)
N. Overall width(with / without bucket)		mm (ft-in)	2,740(9′)/2,580(8′ 6")	2,740(9′)/2,580(8′ 6")