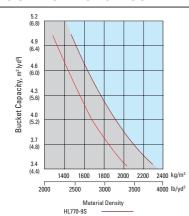
BUCKET SELECTION GUIDE



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)
23.5-25 20PR L3	-472 (-1041)	-350 (-770)	-310 (-680)
26.5-25 28PR L3	-4 (-9)	-3 (-7)	-2 (-4)
26.5-25 32PR L3	+164 (+362)	+120 (+265)	+110 (+240)
26.5 R25 XHA*	+108 (+238)	+80 (+175)	+70 (+155)

STANDARD EQUIPMENT

HI 770XTD-9S

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, 1000 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)
- 1 LED dome light
- 4 turn signals
- 2 head lights on front tower
- 2 working lights on grill
- hazard
- main light
- parking
- work light
- Starter, electric

- cigar lighter & ashtray - coat hook
- air conditioner & heater

- Lighting system
- 2 stop and tail lights
- brake lights(counterweight)
- 2 working lights on front roof
- Switches - clutch cut-off
- Ignition key, start/stop switch
- (illumination and head light)
- rear wiper & washer
- battery master switch

Starting and charging system(24-

Cab (sound suppressed and pressurized) with :

Automatic climate control

- defroster
- - console box
 - Rear view mirrors (2 inside)
 - Steering column, tilt and

telescopic

window) Tinted safety glass Two door cab

- one accelerator pedal

Antifreeze Engine, Cummins QSL

(power / standard / econo) - intermittent wiper and washer, Fan guard Fuel/water separator

Fuel warmer

exhaust stack

Power Train

Parking brake

Radiator

Muffler, under hood with large

Rain cap, engine air intake

Water sensor on fuel filter

Starting aid (air intake heater)

front and rear Personal storage space

- holder, can and cup

Rear view mirrors (2 outside) 2" static seat belt & mechanical suspension seat with armrests

Steering wheel with knob Roller type sunshade (front

Magazine pocket

- one brake pedal Radio/USB player Rubber floor mat Wrist rest

Engine

- Low Emission Diesel, Tier3 Engine enclosure, lockable

Engine fuel priming pump(Electric) 3 operating mode

Diagnostic pressure taps Hydraulic oil cooler

- 2 spool, single lever, pilot control for boom and bucket actuation Steering, load-sensing Remote cooling fan,

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

Torque converter Transmission, computer-controlled, electronic soft shift, auto-shift and kick-down features included Transmission oil cooler

Brakes: Service, enclosed wet-disc

Hydraulics

Boom kickout, automatic Bucket positioner, automatic Hydraulic system,

hydraulically-driven, temperature sensing type

- platforms - steps Fenders(front / rear) Guard, bucket cylinder rod Hydraulic oil level sight gauge Lift and tie-down hooks Loader linkage, sealed Z-Bar design Steering stops, cushioned Tires(26.5-25, 20PR,L3) Transmission oil site level

Vandalism protection caplocks Roller type sunshade (rear window)

OPTIONAL EQUIPMENT

24-volt to 12-volt DC converter 3 Spool Climate control

- air conditioner only - heater only Beacon light, rotating

Auxiliary, 2 working lights on front roof Auxiliary, 2 working lights on rear roof Cutting edge, bolt-on type Dual brake pedal Secondary steering system

PLEASE CONTACT

Fenders(rear-mudguard) Fire extinguisher Guard, transmission

High lift arrangement with additional counterweight. 490kg (1.080 lb) Hydraulic control, 2 lever

Hydraulic control, 3 lever 3rd spool for auxiliary function Joystick with travel switch (FNR) Mud guard

Operator suit Pallet forks

Ride control system

mechanical suspension

Heated rear view mirrors (2 outside) Reversible cooling fan

- 2" static seat belt & adjustable mechanical suspension (vinvl) - 3" retract seat belt & adjustable

- 2" retractable seat belt & adjustable air suspension (heated) Cab, ROPS/FOPS Tires:

- 26.5 - 25, 20PR, L5 - 26.5 R25 XHA* Tool kit

- 23.5 - 25, 20PR, L3 - 26.5 - 25, 28PR, L3 - 26.5 - 25, 32PR, L3

Tooth, 2 pieces, bolt-on type Wheel chock Pre-cleaner, engine air intake Jovstick-steering License plate & lamp

Hi-Mate(Remote Management System) Rearview camera Limited slip differential 3rd fuel pre filter

Tooth, 1 piece, bolt-on type Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

HYUNDAI HEAVY INDUSTRIES CO.,LTD.

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

2012. 7 Rev. 0





We build a better future **HL770**-9s With Tier 3 Engine installed *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!



HL770-98

Machine Walk-Around

Reliable Main Components

Engine Technology

Well proven, reliable, fuel efficient, low noise Cummins Tier-III QSL engine. 3 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

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.

nproved 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 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, 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.





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.



Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 95 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.







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.



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 QSL Engine

The CUMMINS QSL electronic control engine combines full-authority electronic controls with the reliable performance.

The combination of high pressure common rail system and advanced incylinder combustion technology results in increased power, improved transient response and reduced fuel consumption. And the QSL uses advanced electronics controls to meet the emission standards (EPA Tier3, EU StagellI-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

*Photo may include optional equipment.

9S series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.





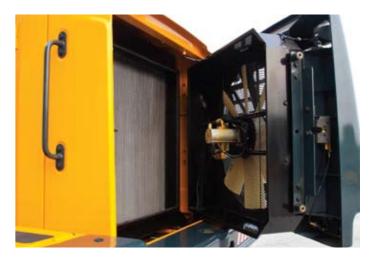
Hi-mate (Remote Management System)

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.



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)



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 95 series.



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 O (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	CUMMINS QSL
Туре	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	280HP(209 kW) / 2,000rpm
Net power	266HP(198 kW) / 2,000rpm
Maximum torque	148kg.m(1,070 lb.ft) / 1,400rpm
No. of cylinders	6

Bore x Stroke	114 mm (4.5") x 145 mm (5.7")
Displacement	8.9 Q (543 cu in)
Compression ratio	17.8 : 1
Air cleaner	Dry, two stage dual elements
Alternator	24V, 70 Amp
Battery	2 x 12V, 160 Ah.
Starting motor	24V, 7.5 kW

 \times No derating for continuous operating required up to 1,829m (6,000ft). This engine meets the EPA(Tier \times) / EU(Stage \times 1.4) Emission regulation.

TRANSMISSION

Torque converter type	3-elements, single-stage single-phase
Tire	26.5-25, 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	12.1(7.5)
	3rd	25.8(16.0)
	4th	38.0(23.6)
Reverse	1st	6.9(4.3)
	2nd	12.1(7.5)
	3rd	25.8(16.0)

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	23.334

HYDRAULIC SYSTEM

Туре	Open-centered, tandem circuit system	
Pump	Vane type, 396 liters/min	
	(104.6 gal/min)@gal/min	
Control valve	2 Spool (Bucket, Boom)	
	3 Spool (Bucket, Boom, Aux)	
	Pilot pressure controled type	
System pressure	210 kgf/cm² (2,990 psi)	

Bucket Controls	Туре	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; 2-180 mm x 765 mm 1-200 mm x 570 mm
Cycle Time		Raise: 5.7 sec Dump: 1.4 sec Lower: 2.7 sec Total: 9.8 sec

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

Туре		Articulated steering
Pump		Vane, 251 liters/min (66.3 gal/min)
Relief Val	ve Setting	210 kg/cm ² (2,990 psi)
Cylinder	Type Bore x Stroke	Double acting 100mm(3.7") x 480mm(18.9")
Steering Angle		40°(each direction)

Features

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

SERVICE REFILL CAPACITIES

Fuel tank	390 liters (103 USgal)
Cooling system	56 liters (14.8 USgal)
Crankcase	23 liters (6.1 USgal)
Transmission	43 liters (11.4 USgal)

OVERVIEW

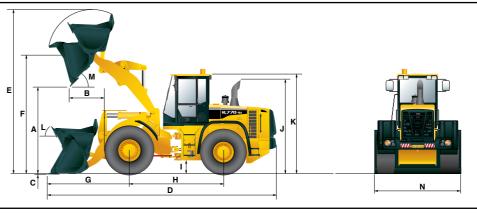
Description		UNIT	HL770-9S	HL770XTD-9S
Operating weight		kg (lb)	22,500 (49,600)	23,250 (51,260)
Bucket capacity	Heaped	m³(yd³)	4.0 (5.2)	4.0 (5.2)
	Struck	m³(yd³)	3.45 (4.5)	3.45 (4.5)
Breakout force-bucket		kg (lb)	20,760 (45,770)	20,430 (45,040)
Tipping load	Straight	kg (lb)	17,400 (38,360)	15,660 (34,520)
	Full turn	kg (lb)	14,950 (32,960)	13,360 (29,450)

Front axle	51 liters (13.5 USgal)
Rear axle	40 liters (10.6 USgal)
Hydraulic tank	200 liters (52.8 USgal)
Hydraulic system (including tank)	292 liters (77.1 USgal)

TIRES

Туре	Tubeless, loader design tires
Standard	26.5-25, 20 PR, L3
Options include	26.5 R25 XHA*
	26.5-25, 28 PR, L3
	26.5-25, 32 PR, L3
	23.5-25, 20 PR, L3
	26.5-25, 20 PR, L5

DIMENSIONS



Description			UNIT	HL770-9S	HL770XTD-9S	
	Bucket Type		General purpose bolt-on cutting edge			
Α.	. Dumping clearance at max.		mm (ft-in)	3,117 (10′ 3″)	3,570 (11′ 9″)	
	height and 45	odump angle.	(- ,			
В.	Reach	Full lift	mm (ft-in)	1,254 (4′ 1″)	1,260 (4′ 2″)	
		7ft height	mm (ft-in)	1,890 (6' 2")	2,250 (7′ 5″)	
C. Digging depth		mm (in)	98 (3.9")	130 (5.1")		
D.	Overall length	on ground	mm (ft-in)	8,650 (28' 5")	9,135 (30′ 0″)	
		at carry	mm (ft-in)	8,550 (28' 1")	9,050 (29' 8")	
E.	E. Overall height (fully raised)		mm (ft-in)	5,870 (19' 3")	6,320 (20′ 9″)	
F.	F. Bucket pivot max. height		mm (ft-in)	4,310 (14' 2")	4,760 (15' 7")	

Description		UNIT	HL770-9S	HL770XTD-9S
G. Front overhang		mm (ft-in)	2,940 (9' 8")	3,350 (12′ 0″)
H. Wheelbase		mm (ft-in)	3,440 (11′ 3″)	3,440 (11′ 3″)
Ground clearance		mm (ft-in)	480 (1′ 7″)	480 (1′ 7″)
J. Height over exhaust		mm (ft-in)	3,150 (10′ 4″)	3,150 (10′ 4″)
K. Height over cab		mm (ft-in)	3,590 (11′ 9″)	3,590 (11′ 9″)
L. Roll-back angle (on ground/at carry)		deg	44/49	44/50
M. Dump angle		deg	48	48
Clearance circle		mm (ft-in)	13,990 (45′ 11″)	14,340 (47' 1")
N. Overall width	with bucket	mm (ft-in)	3,100 (10′ 2″)	3,100 (10′ 2″)
iv. Overall width	without bucket	mm (ft-in)	3,100 (10′ 2″)	3,100 (10′ 2″)

10/11