

We build a better future

# HL760-9

Equipped with Tier 3 Engine



\*Photo may include optional equipment.

# Pleasure works

An operator, who takes pleasure in his work, does a better job. That is why we at Hyundai Heavy Industries do everything we can to make that happen. We merged operator preference, fast precision and lasting performance into a quality product. Hyundai 9 Series earthmoving equipment simply makes time fly, makes pleasure work!



\*Photo may include optional equipment.

### Reliable Main Components

#### Engine Technology

Proven, reliable, fuel efficient, low noise, Tier-III certified Cummins QSB6.7 engine  
Electronically controlled for optimum fuel to air ratio / Clean and efficient combustion  
HPCR (High Pressure Common Rail) fuel system / Self-diagnostic system  
Different operation modes (Power / Standard / Economy) controlled by rotational switch

#### ZF Full Automatic Transmission

4 automatic modes (Manual / Light / Normal / Heavy) for various applications  
Protection transmission at low temperature (with Automatic warm-up system)  
Self-diagnostic & history of alarms  
Smooth gear shifting by applying proportional controlling modulation valve / Self adjusting Clutch gap  
Kick-down button & Forward-Neutral-Reverse switch for increased comfort

#### Axles

Front and rear axle equipped with Limited slip differential for maximum traction on different ground conditions  
Self-adjusting brakes, mounted in wheel hubs

### High Durability

"Load sensing – Flow sharing" hydraulic system with variable displacement pump  
Improved cooling system with high resistance to thermal shocks and vibrations  
Steering cylinder lug & bucket link designed with reinforced and stressless cast steel

### Enhanced Operator's Comfort

#### Improved Visibility

Enlarged cabin with curved front window  
Extra visibility with additional glass in the lower door  
All windows consist of Safety glass

#### Improved Convenience

Increased cooling & heating capacity with full automatic temperature control  
Tilting & telescopic steering column and large adjustable wrist rest to meet all operator's preferences  
Various storage spaces in the cab / Radio & MP3 player with USB-input  
Stair with large aluminum steps for easy and safe access to the cabin

#### Advanced Color LCD-display

New color LCD-display with easy to read digital gauges for hydraulic oil temperature, water temperature and fuel level  
Monitoring system with boom & bucket position settings and payload-system to increase work efficiency and overload prevention  
Through the LCD-display, the condition of engine, transmission and other electric devices can be checked with the blink of an eye  
Automatic activated rear view camera for easier and safer work  
Hi-mate, Hyundai's newly developed remote management system, using GPS-satellite technology, provides our customers with the highest level of service and product support

### Easy Maintenance

Reversible, hydraulic driven cooling fan for reduced fuel consumption and low noise  
Ground level access of service points and sight gauges for easy maintenance  
Extended life of filters & hydraulic oil

# Preference

An operator, who sets his machine to his needs, takes pleasure in his work. 9 Series respects operator preference with regards to comfort, ease-of-use and controllability. The dashboard cluster with 5.7 inch screen is the preference nerve centre.



## Spacious and Convenient Cab

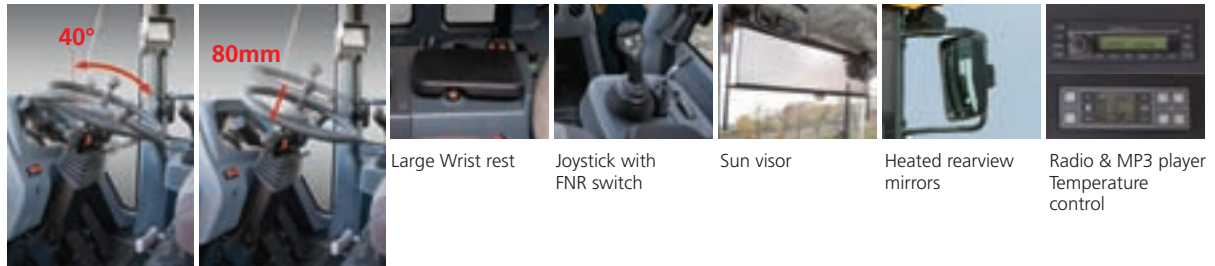
The newly designed cabin was conceived for more space, better visibility and increased operator's comfort. The front window is curved with 17% more glass area than our previous series. Special attention was given to a clean and open interior with plenty of visibility on the machine surroundings and the jobsite. A balanced combination of cab ergonomics puts the operator in the perfect position to work safely and securely. The full automatic temperature control features 11 air vents and increased cooling and heating capacity for optimum temperature control. The defroster vents on the front and rear window and an electric pre-heater make working in cold circumstances more convenient.

\*Photo may include optional equipment.

## Operator Comfort

on the joystick facilitates selection of travel direction. Roll-up type sun visor on the front window and optional on the rear window allow the operator to reduce glare and to improve visibility. Heated rearview mirrors for quick defrosting during cold weather conditions.

In a 9 series cabin you can easily adjust the steering column and wrist rest to meet your preferred comfort level. A pilot-operated joystick offers high controllability of your hydraulic attachments. A Forward-Neutral-Reverse switch



Large Wrist rest

Joystick with FNR switch

Sun visor

Heated rearview mirrors

Radio & MP3 player Temperature control

Tilting / telescopic steering column

## Stressless

Work is stressful enough. Your working environment should be stressless. Hyundai's 9 series provides improved cabin interior, additional storage space and a comfortable seat to minimize the stress of the operator. A powerful climate control system provides the operator with his preferred air temperature. An advanced audio system with AM/FM stereo and MP3 player with USB input, is installed to listen to your preferred music favorites.

## Advanced LCD-display



The advanced cluster with 5.7 inch wide color LCD-display allows the operator to select his personal machine preferences. The operator can preset boom kick-out and bucket-level position while monitoring the preferred settings through the monitor. An integrated payload-system (optional) gives a clear indication of your load on the monitor and contributes to higher work efficiency. Self-diagnostics, automatic activated rear-view camera, maintenance check lists and startup machine security are integrated into the monitor to make the machine more versatile and the operator more productive. The LCD-display is mounted on an adjustable swivel bracket to meet the operator's preference.

### Adjustable LCD-display



Rotation : 540°



# Performance

An operator, who can rely on his machine, takes pleasure in his work. 9 Series stand for lasting performance in strength, speed and reliability. The innovative hydraulic system makes the 9 Series wheel loader fast, smooth and easy to control.



\*Photo may include optional equipment.

## Improved Durability & Reliability



Enhanced axles improve driving on uneven ground conditions. Self adjusting brakes that automatically compensate disc wear, reduce service intervals and improve brake 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.

Completely redesigned, parallel-mounted coolers with non-louvered fins make our 9 series easy to clean and easy to service.

All coolers are designed with aluminum bar plate configuration and undergo extended factory tests for thermal shocks and vibrations to assure long term durability. Top mounted non-louvered aluminum air condenser and variable displacement A/C compressor are designed for maximum cooling capacity and energy savings. The redesigned steering cylinder lug and bucket link are made of cast steel for additional strength and reliability.

## Various 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 based on the application and operator's preference. Convenient rotational switches allow easy adjustment of engine power mode, automatic mode and clutch cut-off mode. Additionally, the 9 Series wheel loader can be equipped with an optional ride control system. The ride control system has a shock absorbing accumulator that cushions the boom cylinders, in order to improve operator's comfort and to reduce material loss. The versatility of the 9 series operating modes contributes to improved productivity, enhanced operator comfort and reduced fuel consumption.



### 3 Engine Power Modes

Power Mode : Heavy duty work  
Standard Mode : General work  
Economy Mode : Light duty work

### 4 Transmission Shift Modes

Manual Mode  
Auto-Light Mode : Light duty & long distance carry  
Auto-Normal Mode : General loading & retracting light material  
Auto-Heavy Mode : Heavy duty loading & retracting heavy material

### 3 Clutch Cut-Off Modes

Low Mode : Short distance & fast loading  
Medium Mode : General loading  
High Mode : Loading on a slope



## Cummins QSB 6.7 Engine

The CUMMINS QSB6.7 engine combines full-authority electronic controls with reliable performance. The combination of a high pressure common rail system and advanced in-cylinder combustion technology results in increased power and reduced fuel consumption. To control these high-horsepower products, electronics are developed for the most demanding environment, including dusty and other heavy applications, to comply with the current emissions standards including EPA Tier3 and EU Stage IIIA.



## Full Automatic Transmission

A full automatic transmission is implemented for maximum durability, minimum power loss, high travel speed and low noise. Improved clutch control and fluent shifting, contribute to a smoother ride. Transmission faults are recorded and accessible through the monitor.

# Profitable

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series wheel loaders contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution. The Remote Management System allows machine owners to track, monitor and manage at a distance.



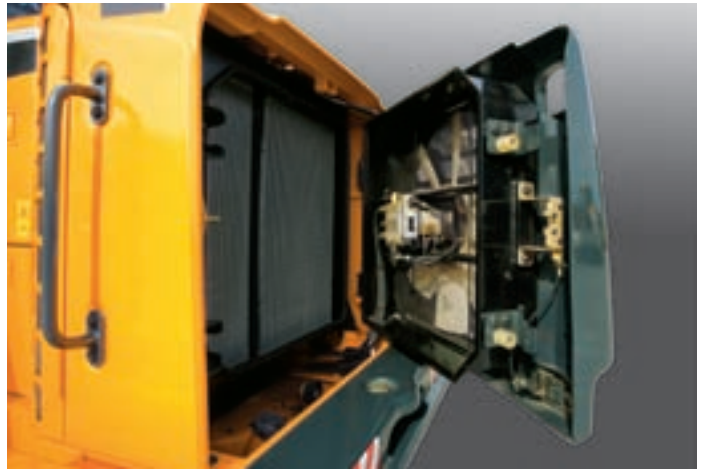
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## Hi-mate (Remote Management System)

Hi-mate, Hyundai's newly developed remote management system, using GPS-satellite technology, provides our customers with the highest level of service and product support. Hi-mate enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.



## Easy Access

The cooling fan and fan motor are integrated into the rear door for easy access and regular maintenance. Convenient location of coolant and transmission oil gauges make checking fluid levels fast and efficient. Access from ground to fuel and oil filters, grease fittings, electric fuses, electronic components, combined with large open compartments, makes servicing the 9 Series wheel loader a pleasure for your mechanics.



## Hydraulic driven Cooling Fan

The remote mounted, hydraulic driven cooling fan regulates fan speed according to actual temperatures of engine coolant, air intake, transmission oil and hydraulic oil. This new fan design reduces fuel consumption and machine noise. The automatic or manual auto reverse function blows debris out of the coolers.



## Fenders and Mud Flaps (Option)

9 series wheel loaders are equipped with full rear fenders and front and rear mud flaps (optional) to reduce spatters on the cabin and the machine frame.



Hydraulic Oil filter  
(1,000 hr)



Hydraulic Oil  
(5,000 hr)

## Extended Life of Components

9 series machines are designed for extended lubrication intervals and life of components. Long life hydraulic filters last up to 1,000 hrs and Hyundai certified "long-life hydraulic oil" only needs to be changed every 5,000 hrs. Also, a new center pivot roller bearing, now double tapered, requires less maintenance. Long life and extended wear components save time and money for machine owners.

# Specifications

## ENGINE

<b>Maker/Model</b>	CUMMINS QSB6.7
<b>Type</b>	4-cycle, turbocharged, charge air-cooled direct injection, electronic controlled diesel engine
<b>Gross power</b>	215 HP (160 kW) / 2,100 rpm
<b>Net power</b>	212 HP (158 kW) / 2,100 rpm
<b>Maximum torque</b>	97 kg.m (700 lb.ft) / 1,500 rpm
<b>No. of cylinders</b>	6

<b>Bore x Stroke</b>	107 mm (4.21") x 124 mm (4.88")
<b>Displacement</b>	6.7 ℓ (409 cu in)
<b>Compression ratio</b>	17.2 : 1
<b>Air cleaner</b>	Dry, dual elements
<b>Alternator</b>	24V; 70 Amp
<b>Battery</b>	2 x 12 V; 130 Ah.
<b>Starting motor</b>	24 V; 3,7 kW

※ No derating for continuous operating required up to 3,048 m (10,000 ft). This engine meets the EPA (Tier III) / EU (Stage III-A) Emission regulation.

## TRANSMISSION

<b>Torque converter type</b>	3-elements, single-stage single-phase
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※ 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.

<b>Travel speed</b>		<b>km/h (mph)</b>
<b>Forward</b>	1st	6.3 (3.9)
	2nd	12.0 (7.5)
	3rd	24.0 (14.9)
	4th	38.1 (23.7)
<b>Reverse</b>	1st	6.7 (4.2)
	2nd	12.6 (7.8)
	3rd	25.2 (15.7)

## AXLES

<b>Drive system</b>	Four-wheel drive system
<b>Mount</b>	Rigid front axle and oscillating rear axle
<b>Rear axle oscillation</b>	+/- 12° (total 24°)

<b>Hub reduction</b>	Planetary reduction at wheel end
<b>Differential</b>	Front & rear limited slip
<b>Reduction ratio</b>	24.666

## HYDRAULIC SYSTEM

<b>Type</b>	Load-sensing hydraulic system
<b>Pump</b>	Variable axial piston type, max. 233 ℓ/min (61.6 gal/min) @ governed rpm
<b>Control valve</b>	2 spool (Bucket, Boom) 3 spool (Bucket, Boom, Aux) Pilot – operated Joystick
<b>System pressure</b>	280 kgf/cm <sup>2</sup> (3,982 psi)

<b>Bucket Controls</b>	Type	Pilot operated lift and tilt circuit, single-lever joystick control standard.
	Lift Circuit	The valve has four functions: raise, hold, lower and float. An adjustment for automatic kick-out from horizontal to full lift is installed.
	Tilt Circuit	The valve has three functions: tilt back, hold and dump. An adjustment for automatic bucket position to the preferred load angle is installed.
<b>Cylinders</b>	Type : Double acting No. of cylinders-bore x stroke; Lift 2-140 mm (5.5") x 757 mm (29.8") Tilt 1-160 mm (6.2") x 530 mm (20.8") Tilt 1-160 mm (6.2") x 515 mm (20.3")	
<b>Cycle Time</b>		Raise (with load) : 5.8 sec Dump : 1.2 sec Lower (empty) : 3.1 sec Total : 10.1 sec

## BRAKES

<b>Service Brakes</b>	Hydraulic actuated, wet disc brakes on all wheels Independent axle-by-axle Self adjusting & integrated in wheel hub
<b>Parking Brake</b>	Spring-applied, hydraulic released, integrated in front axle
<b>Emergency Brake</b>	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

## STEERING SYSTEM

<b>Type</b>	Load-sensing hydrostatic articulated steering	
<b>Pump</b>	Piston pump, max. 126 l/min (33.3 gal/min) @ governed rpm	
<b>Relief Valve Setting</b>	250 kg/cm <sup>2</sup> (3,555 psi)	
<b>Cylinder</b>	Type	Double acting
	Bore x Stroke	75 mm (2.9") x 440 mm (17.3")
<b>Steering Angle</b>	40° (each direction)	

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

## SERVICE REFILL CAPACITIES

<b>Fuel tank</b>	334 liters (88.2 US gal)
<b>Cooling system</b>	39 liters (10.3 US gal)
<b>Crankcase</b>	18 liters (4.8 US gal)
<b>Transmission</b>	32 liters (8.5 US gal)

<b>Front axle</b>	38 liters (10.0 US gal)
<b>Rear axle</b>	31 liters (8.2 US gal)
<b>Hydraulic tank</b>	178 liters (47 US gal)
<b>Hydraulic system (including tank)</b>	252 liters (66.6 US gal)

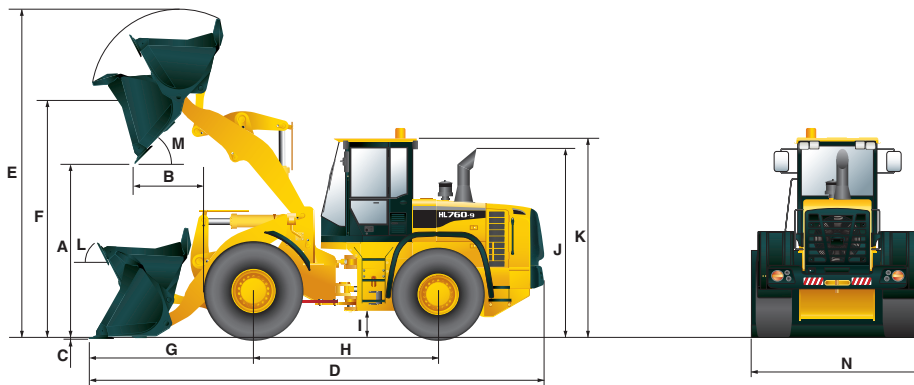
## OVERVIEW

Description	UNIT	HL760-9	HL760XTD-9
Operating weight	kg (lb)	17,900 (39,460)	18,700 (41,230)
Bucket Capacity	Heaped	m <sup>3</sup> (yd <sup>3</sup> )	3.3 (4.3)
	Struck	m <sup>3</sup> (yd <sup>3</sup> )	2.8 (3.7)
Breakout force-bucket	kg (lb)	16,230 (35,780)	15,820 (34,880)
Tipping load	Straight	kg (lb)	13,840 (30,510)
	Full turn	kg (lb)	12,100 (26,680)

## TIRES

<b>Type</b>	Tubeless, loader design tires
<b>Standard</b>	23.5-25, 20 PR, L3
<b>Options include</b>	20.5-25, 16 PR, L3 23.5-25, 20 PR, L5 20.5 R25 XHA*

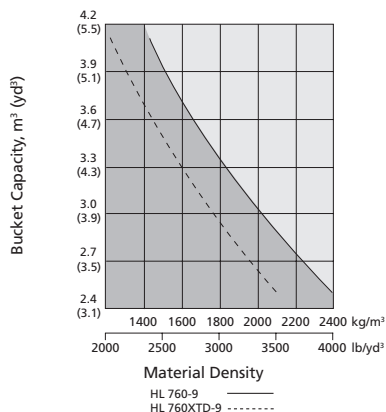
## DIMENSIONS



Description	UNIT	HL760-9	HL760XTD-9
Bucket Type	General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	2,970 (9' 9")	3,460 (11' 4")
B. Reach	full lift	mm (ft-in)	1,220 (4')
	7ft height	mm (in)	1,790 (5' 10")
C. Digging depth	mm (ft-in)	90 (3.5")	86 (3.4")
D. Overall length	on ground	mm (ft-in)	8,100 (26' 7")
	at carry	mm (ft-in)	8,030 (26' 4")
E. Overall height (fully raised)	mm (ft-in)	5,575 (18' 3")	6,060 (19' 11")
F. Bucket pivot max. height	mm (ft-in)	4,105 (13' 6")	4,600 (15' 1")

Description	UNIT	HL760-9	HL760XTD-9
G. Front overhang	mm (ft-in)	2,780 (9' 1")	3,245 (10' 8")
H. Wheelbase	mm (ft-in)	3,300 (10' 10")	3,300 (10' 10")
I. Ground clearance	mm (ft-in)	420 (1' 5")	420 (1' 5")
J. Height over exhaust	mm (ft-in)	2,960 (9' 9")	2,960 (9' 9")
K. Height over cab	mm (ft-in)	3,450 (11' 4")	3,450 (11' 4")
L. Roll-back angle	on ground	deg	42
	at carry	deg	47
M. Dump angle	deg	47	47
Clearance circle	mm (ft-in)	13,130 (43' 1")	13,560 (44' 6")
N. Overall width	with bucket	mm (ft-in)	2,900 (9' 6")
	without bucket	mm (ft-in)	2,770 (9' 1")

## 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)
20.5-25 16PR L3	-872 (-1,922)	-670 (-1,470)	-590 (-1,300)
23.5 R25 XHA*	+8 (+18)	+6 (+13)	+5 (+11)

## 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  
Back-up Alarm  
Batteries, maintenance-free  
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  
- working lights  
LCD Display  
- clock and fault code  
- operating hours

- engine rpm  
- transmission gear 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 chassis  
- 2 working lights on cabin roof (front)  
- 2 working lights in grill  
Switches  
- clutch cut-off  
- hazard  
- Ignition key, start/stop switch  
- main lights (working and head lights)  
- parking brake  
- rear wiper & washer  
- battery master switch  
- pilot-system 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 temperature 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  
Sun visor (front window)  
Tinted safety glass  
Cabin with two doors  
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 modes

- power/standard/economy  
Engine doors, 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 (de-aeration type)  
Starting aid (air intake heater)  
Water sensor on fuel filter  
**Power Train**  
Brakes : Service, enclosed wet-disc  
Front & Rear Differential : limited slip  
Parking brake  
Torque converter  
Transmission, computer-controlled, electronic soft shift, auto-shift and quick-shift features included  
Transmission oil cooler  
**Hydraulics**  
Automatic boom kickout  
Automatic bucket positioner  
Diagnostic pressure taps  
Hydraulic oil cooler  
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 fits all  
Doors, service access (locking)  
Drawbar with pin  
Engine oil level dipstick gauge  
Ergonomically located and slip resistant, left & right  
- handrails  
- ladders  
- platforms  
- steps  
Front Fenders  
Guard, bucket cylinder rod  
Hydraulic oil level sight gauge  
License plate bracket  
Lift and tie-down hooks  
Loader linkage, sealed Z-bar design  
Cushioned steering stops  
Tires (23.5-25, 20PR,L3)  
Transmission oil site level  
Vandalism protection cap locks

## OPTIONAL EQUIPMENT

24-volt to 12-volt DC converter  
Climate control :  
- air conditioner only  
- heater only  
Beacon light  
Auxiliary, 2 working lights on front roof (Xenon working lights)  
Auxiliary, 2 working lights on rear roof  
Cutting edge, bolt-on type  
Joystick steering system

Fire extinguisher  
High lift arrangement with additional counterweight, 605 kg (1,330 lb)  
Hydraulic control, 2 lever  
Hydraulic control, 3 lever  
3rd spool for auxiliary function  
Joystick with travel switch (FNR)  
Rear Fenders  
Mud flaps  
Operator suit

Pallet forks  
Ride control system  
Reversible cooling fan  
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 :  
- 20.5 - 25, 16PR, L3  
- 23.5 - 25, 20PR, L5  
- 23.5 R25 XHA  
Tool kit  
Tooth, 1 piece, bolt-on type  
Tooth, 2 pieces, bolt-on type  
Guards  
- crankcase  
- transmission  
Wheel chock

Engine air pre-filter  
Hi-Mate (Remote Management System)  
Rear view camera  
Dual-brake pedal  
Roll-up sun visor (rear window)  
License plate & lamp

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

