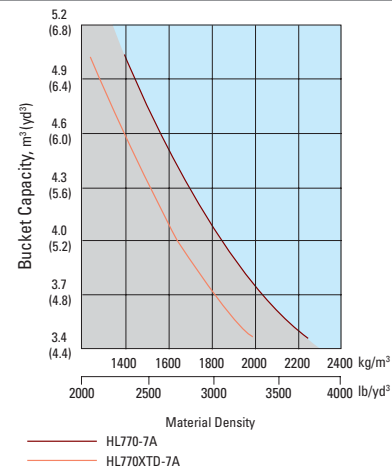


Bucket Selection Guide



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)	-345 (-760)	-305 (-672)
26.5-25 28PR L3	-4 (-9)	-3 (-7)	-3 (-6)
26.5-25 32PR L3	+164 (+362)	+120 (+265)	+106 (+234)
26.5 R25 XHA*	+108 (+238)	+80 (+176)	+70 (+154)
26.5-25 20PR L5	+768 (+1,693)	+560 (+1,235)	+496 (+1,093)

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
 - 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
 - work light
- LCD Display**
- clock and fault code
 - operating hour counter
 - engine rpm
- Cab**
- Cab, ROPS/FOPS (sound suppressed and pressurized) with:

- transmission gear range indicator
 - job time and distance
 - temperature(coolant, hydraulic oil, t/m oil)
- Lighting system**
- 2 dome lights
 - 2 stop and tail lights
 - 4 turn signals
 - brake lights(counterweight)
 - license plate light
 - head light
 - 2 on front tower
 - working lights
 - 2 on front roof
 - 2 on grill
- Switches**
- clutch cut-off
 - hazard
 - Ignition key, start/stop switch
 - main light(illumination and head light)
 - parking
 - rear wiper & washer
 - work light
 - master switch
 - full automatic transmission
- Starter, electric**
- Starting and charging system(24-volt)
- Magazine box**
- Pedals**
- one accelerator pedal
 - one brake pedal
- Wrist rest**
- Engine**
- Antifreeze
 - Engine, Cummins QSL
 - Low Emission Diesel, Tier3
 - Engine enclosure, lockable
 - Engine fuel priming pump(Electric)
 - 2 Operating mode (Power & Econo)

- Fan guard**
- Fuel/water separator**
- Fuel warmer**
- Muffler, under hood with large exhaust stack**
- Precleaner, engine air intake**
- Radiator**
- Starting aid (air intake heater)**
- Water sensor on fuel filter**
- Power Train**
- Brakes : Service, enclosed wet-disc
 - Differentials, limited slip(front/rear)
 - Parking brake
 - Torque converter
 - Transmission, computer-controlled, electronic soft shift, auto-shift and kick-shift features included
 - Transmission oil cooler
- Hydraulics**
- Boom lock safety valve
 - Boom kickout, automatic
 - Bucket positioner, automatic
 - 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
 - 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)
 - Guard, bucket cylinder rod
 - Hydraulic oil level sight gauge
 - License plate bracket
 - Lift and tie-down hooks
 - Loader linkage, sealed
 - Z-Bar design
 - Steering stops, cushioned
 - Tires(26.5-25, 20PR,L3)
 - Transmission oil level dipstick gauge
 - Vandalism protection caplocks

Optional Equipment

- 24-volt to 12-volt DC converter
- 3 spool
- Air condition :
 - air conditioner
 - air conditioner with heater
 - heater
- Alarm, back-up
- Beacon light, rotating
- CD player
- Cutting edge, bolt-on type
- Dual brake pedal
- Emergency steering system
- Fenders(rear-mudguard)
- Fire extinguisher
- Guards
 - crankcase
 - transmission
- High lift arrangement with additional counterweight, 505kg(1110 lb)
- Hydraulic control, 2 lever
- Hydraulic control, 3 lever
- Hydraulic arrangement 3-valve FNR switch
- on joystick control lever
- Lighting, auxiliary, 4 on roof
- Mud guard
- Open Canopy (None-ROPS)
- Operator suit
- Pallet forks
- Quick attachment coupler
- Radio cassette player
- Ride control system
- Reversible cooling fan system
- Rear view mirrors heated (2 outside)
- Seat
 - 2" static seat belt & adjustable mechanical suspension(vinyl)
 - 3" retractable seat belt
 - 3" retractable seat belt & adjustable air suspension
- Tires :
 - 23.5 - 25, 20PR, L3
 - 26.5 - 25, 28PR, L3
 - 26.5 - 25, 32PR, L3
- 26.5 - 25, 20PR, L5
- 26.5 R25 XHA ★
- Tool kit
- Tooth, 1 piece, bolt-on type
- Tooth, 2 pieces, bolt-on type
- Window, sliding (left and right side)
- Wheel chock

Standard and optional equipment may vary. Consult your Hyundai dealer for more information. The machine shown may vary according to territorial specification.



Some of the photos may include optional equipment.

HYUNDAI WHEEL LOADER Applied Tier 3 Engine

HL770-7A

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HEAVY INDUSTRIES CO.,LTD.

We build a better future

Hardworking Hyundai Loaders



Meet the new generation wheel loader in Hyundai.

The HL770-7A will give you the satisfaction in higher power.
Lower fuel consumption, more comfort and lower emission .

Come and experience what Hyundai has created for you by bringing power and technology.

HL770-7A Additional Option



Reversible Fan

Reversible Hydrostat-driven fan is able to clean out dust and foreign bodies located a radiator and hydraulic oil cooler.



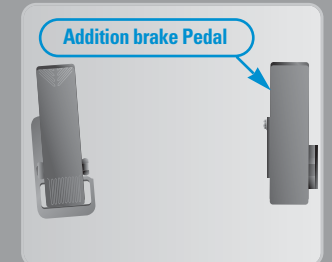
Rear View Mirror

Heated rear view mirror is added electric heating to keep mirrors free of ice and mist.



FNR Switch on Joystick Control Lever

It is possible to change the direction of travel as well as control Hydraulic system.



Dual Service Brake Pedals



Some of the photos may include optional equipment.

New Generation, Innovative Solution in Construction **HL770-7A**

The Centralized Display & Switch Panel

The centralized digital display shows the status and conditions of your machine at a glance. Easy-to-read gauges with an instrument panel provide constant, and accurate information.



Some of the photos may include optional equipment.



Control Center

The all-new, deluxe operating space is engineered with 3-D modeling for your ultimate control center. The wide, tinted and laminated front windshield has no framing cutting through to ensure excellent visibility.

Adjustable steering column



Joystick Controls

Pilot-operated controls for bucket operation by the Joystick are easy and comfortable to operate.



Finger Control Lever (Option)



FNR Switch on Joystick Control Lever

It is possible to change the direction of travel as well as controlling Hydraulic system. (Option)

Full automatic shift lever



A single lever on the left side of the steering column gives the operator fast, easy control of speed and direction. Push the lever forward to go forward, pull it back for reverse. Travelling is automatically changed from 1st stage to given stage according to travel speed and tractive effort. The operator can select two kinds of automatic modes (1st ↔ 4th, 2nd ↔ 4th). These exclusive features contribute to a step-up in productivity and reduction of operator's fatigue.

The Air Conditioning and Heating System

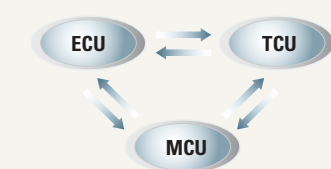


The operator can easily control the temperature and air flow. The defroster on the front windshield and rear window makes it convenient for winter working usage.

- ① Power Outlet & Cigar Jack
- ② Cup Holder & Console Box
- ③ Magazine Box
- ④ Cool & Hot Box



Up-to-Date-technology CAN System



Engine control Unit(ECU), Transmission control Unit(TCU) and Machine control Unit(MCU) realize the optimal performance through the mutual CAN communications.

Ride control system(Option)

Ride control system functions such as shock absorbers gives smooth operation without losing of the load even over a rough terrain condition. Therefore the system allows faster travelling and improved safety and productivity.



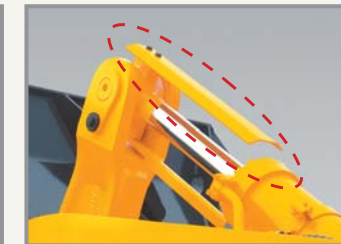
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A Well Rounded System

Maximize the productivity of your business with HL770-7A. With our vast experience in the production of construction equipment, Hyundai is able to meet the demands of consumers.

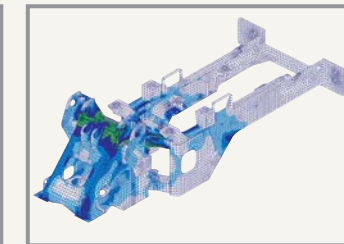


Left and right access door



Bucket cylinder guard

This guard helps to prevent possible damage from load material.



High-rigidity frames

Front and rear frames are designed for work in the toughest applications to provide high rigidity for the power train and loader equipment. The high-rigidity frames, together with the reinforced loader linkage, resist loading stress and shock.



2 Operating mode

- ▶ **Econo Mode**
Maximum fuel efficiency for general loading
- ▶ **Power Mode**
Maximum power output for hard digging or climb hill

New Generation, Innovative Solution in Construction **HL770-7A**



Some of the photos may include optional equipment.

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 in-cylinder 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 StageIII-A)



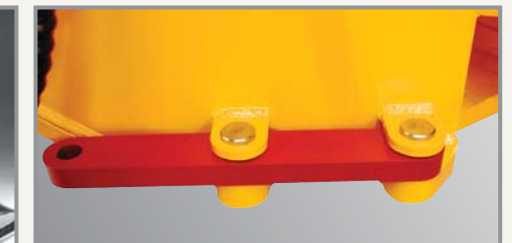
Master switch

A master switch disconnects the battery power to protect the electrical system.



Sealed loader linkage

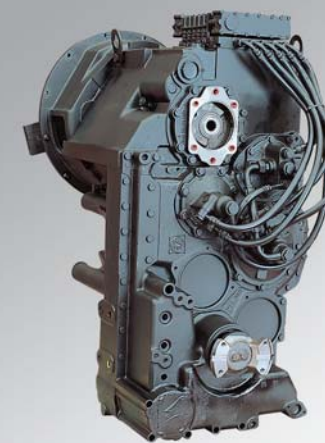
Fully protected fitting is and the sealed loader linkage with dust seals and o-ring will extend lubrication intervals remarkably.



Frame lock

Machine can be locked by this locking bar to prevent movement during transportation.

Multi Function Transmission



The newly developed transmission control represents the beating heart of transmission. The hydraulic system for gearshifts is working with proportional valves, which allows very precise control of the clutches. For each gearchange, the control unit performs a monitoring function to ensure that the specified shift curve is adhered to the range, and readjusts the shift pressure applied to the clutches accordingly. This results in smooth gearshifts-even under the load-with no traction interruptions. This helps to avoid standstill of the vehicle, sudden load changes and torque peaks under all conditions, for example application on steep terrain with full load. In addition, there is the option for the driver to make gearshifts manually.

Axle

Improved Axle

- Limited slip differential in standard equipment allows easy driving on variable ground condition.
- Self adjusting brake which regulate the disk clearance automatically can maintain optimum brake performance.
- Due to improved internal oil circuit, durability of axle is increased.



Accessible and Serviceable

New Generation, Innovative Solution in Construction **HL770-7A**

An ideal arrangement of component parts ensures easy access and convenience for maintenance. Highly accessible engine compartment assures fast and efficient maintenance.



Accessible grease fittings

Grease fittings are highlighted and available around the machine for the fast access when doing your service checks.



Simple air filter replacements

The air cleaner is easily replaceable by turning the wing nut on the outer shell counterclockwise.



Chromium - Plated PIN is applied

With the application of Chromium Plated PIN whose durability and precision are improved and the life cycle became longer.



Remote type drain port

It is now easier to change your engine oil, coolant and hydraulic oil with the remote drain port.



Hydraulic tank

The hydraulic tank is located behind the cab to increase the accessibility of hydraulic hoses and pipings.



Oil sight gauge

The hydraulic oil check sight gauge is installed on the side of the hydraulic tank for the convenient checks from on the ground level.



Transmission oil port

The transmission oil change port is also located for with open accessibility and comes with an anti-vandalism lock for your machine protection.



Some of the photos may include optional equipment.



Central electric controllers & Fuse Box

Electric controllers for Hyundai loader are centralized to improve serviceability. A concentrated fuse box for easy inspection.



Cabin Air Fresh Filter

The internal pressure is maintained to be slightly higher than that of outside to exclude dust and to reduce noise levels.



Coolant Sight Gauge

The coolant sight gauge is installed on the top of radiator for convenient checks of coolant level.

Easy Access to All Engine Accessories

Here you find the engine oil check, and the main and pre-filters. The large access engine-side-panels permit easy and safe inspections. The fuel filter can be spun on and off for quick replacements.



Up-to-date hydraulic remote cooling fan

The minimum fuel consumption and low noise is realized by applying hydraulic cooling fan that senses coolant temperature, intake air temperature, transmission oil temperature and hydraulic oil temperature.



Specification

Engine

Maker/Model	CUMMINS QSL	Bore x Stroke	114 mm (4.5") x 145 mm (5.7")
Type	Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged, charge aircooled low emission	Displacement	8.9 l (543 cu in)
Gross power	280HP(209 kW) / 2,000rpm	Compression ratio	17.8 : 1
Net power	266HP(198 kW) / 2,000rpm	Air cleaner	Dry, dual elements
Maximum power	310HP(231 kW) / 1,700rpm	Alternator	24V, 70 Amp
Maximum torque	148kg·m(1,070 lb·ft) / 1,400rpm	Battery	2 x 12V, 160 Ah.
No. of cylinders	6	Starting motor	24V, 7.5 kW

Net power output of standard engine as installed in this vehicle(per SAE J1349) complete with fan, air cleaner, alternator, water pump, lubricating oil pump and fuel pump. No derating for continuous operating required up to 1,829m (6,000ft). This engine meets the EPA(Tier 3-A) / EU(Stage III-A) Emission regulation.

Transmission

Torque converter type	3-elements, single-stage single-phase	Travel speed	km/h (mph)
Stall torque ratio	2.985 : 1	Forward	
Tire	26.5-25, L3	1st	7.3(4.7)
		2nd	12.8(8.0)
		3rd	27.0(16.8)
		4th	39.0(24.2)
		Reverse	
		1st	7.3(5.0)
		2nd	12.8(8.0)
		3rd	27.0(16.8)

※ 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

Axles

Drive system	Four-wheel drive system	Hub reduction	Planetary reduction at wheel end
Mount	Rigid front axle and oscillating rear axle	Differential	Limited slip differential
Rear axle oscillation	± 13° (total 26°)	Reduction ratio	23.334

Hydraulic System

Type	Open-centered, tandem circuit system. Pilot-operated controls. Closed with pressure and vacuum relief.	Bucket Controls	
Pump	Vane type, 425 liters/min (108.6 gal/min)@governed rpm	Type	Pilot operated lift and tilt circuit, single-lever(joystick) control standard.
Control Valve	Two function valve with single or two lever controls : Optional third-function valve with auxiliary lever.	Lift Circuit	The valve has four functions ; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.
Relief Valve Setting	210 kg/cm ² (2,990 psi)	Tilt Circuit	The valve has three functions ; tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle.
Pilot System Type	Pilot oil pressure is generated by the pilot oil supply unit.	Cylinder	Type : Double acting No. of cylinders-bore x stroke; Lift 2-180 mm(7.1") x 765 mm(30.1") Tilt 1-200 mm(7.9") x 570 mm(22.4")
Relief Valve Setting	30 kg/cm ² (427 psi)	Cycle Time	Raise : 5.5 sec (with load) Dump : 1.3 sec Lower : 2.8 sec (empty) Total : 9.6 sec

Specification

Brakes

Service Brakes	Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-by-axle system. Single pedal braking including clutch cut off switch.
Parking Brake	Spring-applied, hydraulically released disc brake on transmission
Emergency Brake	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

Steering System

Type	Full hydraulic power steering
Pump	Vane type, 270 liters/min (65.5 gal/min)
Relief Valve Setting	210 kg/cm ² (2,990 psi)
Cylinder Type	Double acting
Bore x Stroke	100mm(3.9") x 480mm(18.9")
Steering Angle	40°(each direction)

Features

- Center-point frame articulation
- Flow-amplified, load-sensing, pressure-compensated system
- Steering-wheel operated metering pump controls flow to steering cylinders
- Tilt and telescopic steering column

Service Refill Capacities

Fuel tank	430 liters (113.6 USgal)	Front axle	51 liters (13.5 USgal)
Cooling system	56 liters (14.8 USgal)	Rear axle	43 liters (11.4 USgal)
Crankcase	23 liters (6.1 USgal)	Hydraulic tank	200 liters (52.9 USgal)
Transmission	52 liters (13.7 USgal)	Hydraulic system (including tank)	320 liters (84.6 USgal)

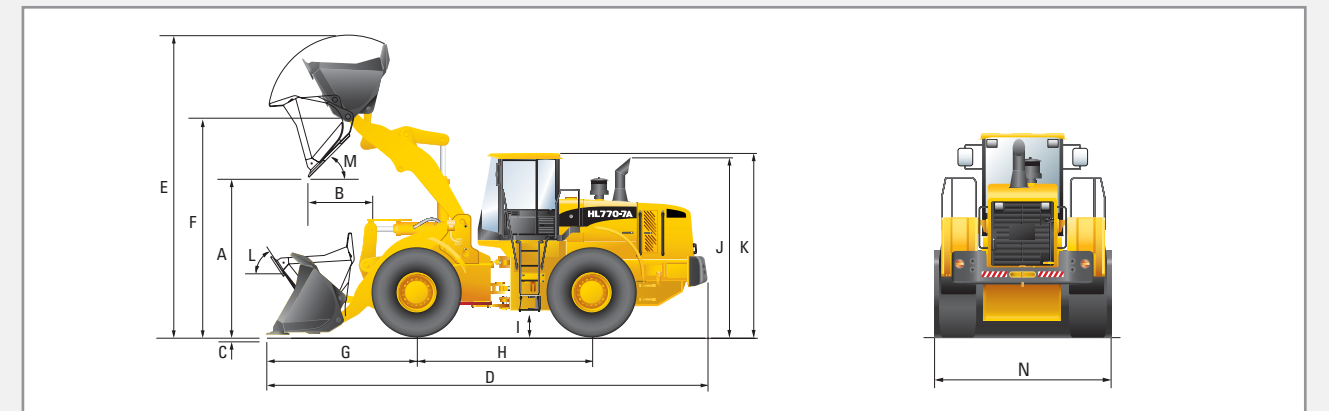
Overview

Description	UNIT	HL770-7A	HL770XTD-7A
Operating weight	kg (lb)	23,100 (50,930)	23,850(52,580)
Bucket capacity	Heaped	m ³ (yd ³)	4.0 (5.2)
	Struck	m ³ (yd ³)	3.45 (4.5)
Breakout force-bucket		kg (lb)	20,760 (45,770)
	Straight	kg (lb)	17,570 (38,730)
	Full turn	kg (lb)	15,250 (33,620)

Tires

Type	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	HL770-7A	HL770XTD-7A
Bucket Type	General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	3,117 (10' 3")	3,570 (11' 9")
B. Reach	Full lift	mm (ft-in)	1,254 (4' 1")
	7ft height	mm (ft-in)	1,890 (6' 2")
C. Digging depth	mm (in)	98 (3.9")	130 (5.1")
D. Overall length	on ground	mm (ft-in)	8,635 (28' 4")
	at carry	mm (ft-in)	8,530 (28')
E. Overall height (fully raised)	mm (ft-in)	5,870 (19' 3")	6,320 (20' 9")
F. Bucket pivot max. height	mm (ft-in)	4,310 (14' 2")	4,760 (15' 7")

Description	UNIT	HL770-7A	HL770XTD-7A
G. Front overhang	mm (ft-in)	2,940 (9' 8")	3,350 (12')
H. Wheelbase	mm (ft-in)	3,440 (11' 3")	3,440 (11' 3")
I. Ground clearance	mm (ft-in)	480 (1' 7")	480 (1' 7")
J. Height over exhaust	mm (ft-in)	3,470 (11' 5")	3,470 (11' 5")
K. Height over cab	mm (ft-in)	3,550 (11' 8")	3,550 (11' 8")
L. Roll-back angle	deg	44 / 49	44 / 50
M. Dump angle	deg	48	48
Clearance circle	mm (ft-in)	14,070 (46' 2")	14,450 (47' 5")
N. Overall width	with bucket	mm (ft-in)	3,100 (10' 2")
	without bucket	mm (ft-in)	2,975(9' 9")