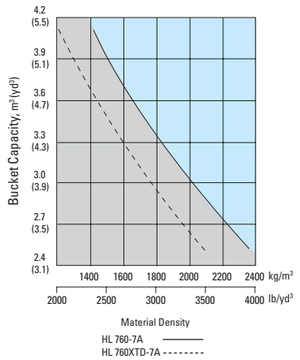
Bucket Selection Guide



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 (-1,477)	-591 (-1,303)
23.5-25 20PR, L5	+884 (+1,949)	+680 (+1,499)	+600 (+1,320)
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
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
· 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 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
· buzzer stop
· clutch cut-off
· hazard
· Ignition key, start/stop switch
· main light(illumination and head light)
· parking
· rear wiper & washer
· work light
· full automatic transmission
Starter, electric
Starting and charging system(24-volt)

Cab
Cab, ROPS/FOPS
(sound suppressed and pressurized) with :
· cigar lighter & ashtray
· coat hook
· front/rear window defroster
· intermittent wiper and washer, front and rear
· personal storage space:
console box
cool & hot box
holder, can and cup
· rear view mirrors (2 inside)
· rear view mirrors (2 outside)
· seat belt, 2" static
· seat, adjustable suspension with armrests
· steering column, tilt and telescopic
· steering wheel with knob
· sunvisor(front window)
· tinted safety glass
· two door cab, fixed glass
Magazine box
Pedals
· one accelerator pedal
· one brake pedal
Rubber floor mat
Wrist rest

Engine
Antifreeze
Engine, Cummins QSB6.7
· Low Emission Diesel, Tier-III
Engine enclosure, lockable
Engine fuel priming pump
2 operating mode(power & econo)
Fan guard
Fuel/water separator
Muffler, under hood with large exhaust stack
Pre-cleaner, engine air intake
Radiator
Starting aid (air intake heater)
Water sensor on fuel filter
Fuel warmer

Power Train
Brakes : Service, enclosed wet-disc
Differential, 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(23.5-25, 20PR,L3)
Transmission oil level dipstick gauge
Vandalism protection caplocks

Optional Equipment

24-volt to 12-volt DC converter
Air condition :
· air conditioner
· air conditioner with heater
· heater
Alarm, back-up
Battery master switch
Beacon light, rotating
CD player
Cutting edge, bolt-on type
Emergency steering system
Fire extinguisher
High lift arrangement with optional counterweight, 1630kg (3590 lb)
Hourmeter
Hydraulic control, 2 lever
Hydraulic control, 3 lever
Hydraulic arrangement 3-valve
Joystick with travel switch
Lighting, auxiliary, 4 on roof
Mud guard
Open Canopy (NONE-ROPS)
Operator suit
Pallet forks
Quick attachment coupler
Radio cassette player
Rear view Mirror-heated
Reversible cooling fan
Ride control system
Seat
· 2" static seat belt & adjustable mechanical suspension(vinyl)
· 3" static seat belt & adjustable mechanical suspension
· 3" retractable seat belt & adjustable air suspension
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
Window, sliding (left and right side)

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

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PLEASE CONTACT

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2008. 12 Rev.3

■ Some of the photos may include optional equipment.

We build a better future

HYUNDAI WHEEL LOADER Applied Tier 3 Engine

HL760-7A

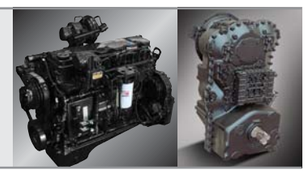
HYUNDAI
HEAVY INDUSTRIES CO.,LTD.

Hardworking

Hyundai Loaders

■ Some of the photos may include optional equipment.

New Generation - HL760-7A



Meet the new generation wheel loader in Hyundai.

The HL760-7A 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.

Engine

- Tier-3 Low Emission Certificated
- Electronic Engine Control System
- Engine Protection & Selfdiagnosis System
- Max Power 217 HP
- 2 Operating Mode : Power & Econo

Transmission

- 2 Automatic Selection Modes
- 2 Kick Down Function Modes
- AEB Function

Axle

- Limited Slip Differential
- Self-Adjusting & Wheel Speed Brake
- Improved Oil Circuit & Lubrication

■ Some of the photos may include optional equipment.

New Generation, Innovative Solution in Construction **HL760-7A**

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)

The Air Conditioning and Heating System

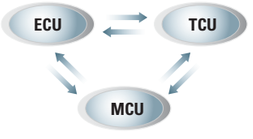
The operator can easily control the temperature and air flow . The defroster on the front windshield and rear window makes it convenient for winter working usage.

❶ Power Outlet & Cigar Jack
❷ Cup Holder & Console Box
❸ Magazine Box
❹ Cool & Hot Box

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.

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.

■ Some of the photos may include optional equipment.

New Generation, Innovative Solution in Construction **HL760-7A**

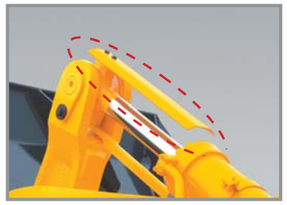
■ Some of the photos may include optional equipment.

CUMMINS
QSB6.7

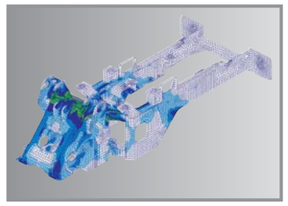
The CUMMINS QSB6.7 electronic control engine combines full-authority electronic controls with the reliable performance. The combination of high pressure common rail system and advanced in-cylinder combustion technology results in increased power, improved transient response and reduced fuel consumption. And the QSB6.7 used advanced electronics controls to meet the emission standards (EPA Tier-3, EU StageIII-A)

A Well Rounded System

Maximize the productivity of your business with HL760-7A.
With our vast experience in the production of construction equipment, Hyundai is able to meet the demands of consumers.



Bucket cylinder guard
This guard helps to prevent possible damage from load material.

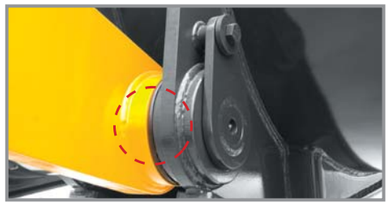


High-rigidity frames
Front and rear frames are designed for work in the toughest applications to provide high rigidity for the power train and loader equipment. The high-rigidity frames, together with the reinforced loader linkage, resist loading stress and shock.

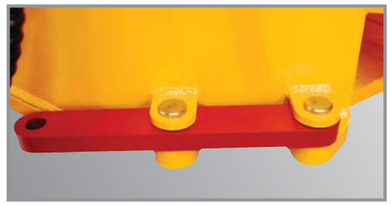
Wear plate
This close up shows the protective plating found underneath the rear of the bucket and is used to prevent excessire wear and tear when digging into material.

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

Battery master switch
A master switch disconnects the battery power to protect the electrical system from excessive electrical drainage.



Sealed loader linkage
Fully protected fitting 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

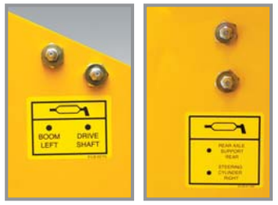
The newly developed transmission control represents the beating heart of transmission. The hydraulic system for gearshifts is working with proportional valves, which allow very precise control of the clutches. For each gearchange, the control unit performs a monitoring function to ensure that the specified 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, durabiliy of axle is increased.

Accessible and Serviceable

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, 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.

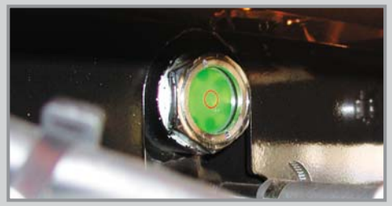
Oil sight gauge
The hydraulic oil check sight gauge is installed on the side of the hydraulic tank for the convenient checks from ground level.

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 Accessaries

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 and oil filters 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.

Reversible cooling fan(Option)
Optional reversible cooling fan that ejects debris in the radiator and cooler.

Specification

Engine

Maker/Model	CUMMINS QSB6.7
Type	Watercooled, 4 cycle Diesel,6-Cylinders in line, direct injection, turbocharged, charge aircooled and low emission
Gross power	215HP(160 kW) / 2,100rpm
Net power	205HP(153 kW) / 2,100rpm
Maximum power	217HP(162 kW) / 1,900rpm
Maximum torque	97kg·m(700 lb·ft) / 1,500rpm
No. of cylinders	6

Bore x Stroke	107 mm (4.2") x 124 mm (4.9")
Displacement	6.7ℓ (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

※ 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 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
Stall torque ratio	2.813 :1
Tire	23.5-25, 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	6.2(3.9)
	11.7(7.3)
	22.3(13.9)
	34.3(21.3)
Reverse	6.6(4.1)
	12.3(7.6)
	23.3(14.5)

Axles

Drive system	Four-wheel drive system
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±12° (total 24°)

Hub reduction	Planetary reduction at wheel end
Differential	Limited slip differential
Reduction ratio	24.666

Hydraulic System

Type	Open-centered, tandem circuit system. Pilot-operated controls. Closed with pressure and vacuum relief.
Pump	Helical gear type, 280 liters/min (74 gal/min)@governed rpm
Control Valve	Two function valve with single or two lever controls : Optional third-function valve with auxiliary lever.
Relief Valve Setting	210 kg/cm² (2,990 psi)
Pilot System Type	Pilot oil pressure is generated by the pilot oil supply unit.
Relief Valve Setting	30 kg/cm²(427 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.
Cylinder	Type : Double acting No. of cylinders-bore x stroke; Lift 2-160 mm(6.3") x 757 mm(29.8") Tilt 1-180 mm(7.1") x 530 mm(20.9")
Cycle Time	Raise : 6.2 sec (with load) Dump : 1.3 sec Lower : 3.0 sec (empty) Total : 10.5 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	Helical gear type, 140 liters/min (37.0 gal/min)
Relief Valve Setting	210 kg/cm²(2,990 psi)
Cylinder Type	Double acting
Bore x Stroke	80mm(3.1") x 440mm(17.3")
Steering Angle	40°(each direction)

Features
- Center-point frame articulation. - 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	330 liters (87 USgal)
Cooling system	39 liters (10.3 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	32 liters (8.5 USgal)

Front axle	38 liters (10.0 USgal)
Rear axle	31 liters (8.2 USgal)
Hydraulic tank	150 liters (39.7 USgal)
Hydraulic system (including tank)	260 liters (68.7 USgal)

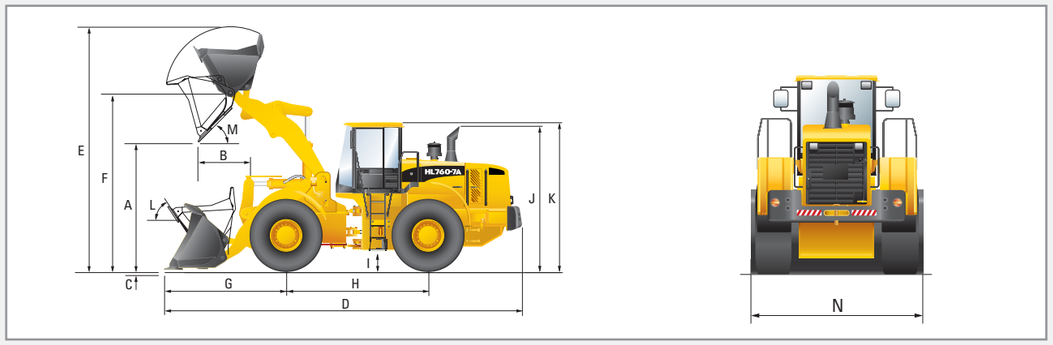
Overview

Description		**UNIT**	**HL760-7A**	**HL760XTD-7A**
Operating weight		kg (lb)	17,900 (39,460)	18,700 (41,230)
Bucket capacity	Heaped	m³ (yd³)	3.1 (4.0)	3.1 (4.0)
	Struck	m³ (yd³)	2.7 (3.5)	2.7 (3.5)
Breakout force-bucket		kg (lb)	15,950 (35,160)	15,650 (34,500)
	Straight	kg (lb)	13,840 (30,510)	12,280 (27,070)
	Full turn	kg (lb)	12,100 (26,680)	10,570 (23,300)

Tires

Type	Tubeless, loader design tires
Standard	23.5-25, 20 PR, L3
Options include	20.5-25, 16 PR, L3 23.5-25, 20 PR, L5 23.5 R25 XHA★

Dimensions



Description	**UNIT**	**HL760-7A**	**HL760XTD-7A**
Bucket Type	General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	3,000 (9′ 10″)	3,490 (11′ 5″)
B. Reach — Full lift	mm (ft-in)	1,190 (3′ 11″)	1,215 (4′)
B. Reach — 7ft height	mm (ft-in)	1,720 (5′ 8″)	2,180 (7′ 2″)
C. Digging depth	mm (in)	90 (3.5″)	90 (3.5″)
D. Overall length — on ground	mm (ft-in)	8,060 (26′ 5″)	8,620 (28′ 3″)
D. Overall length — at carry	mm (ft-in)	8,000 (26′ 3″)	8,580 (28′ 2″)
E. Overall height (fully raised)	mm (ft-in)	5,540 (18′ 2″)	6,030 (19′ 9″)
F. Bucket pivot max. height	mm (ft-in)	4,150 (13′ 7″)	4,610 (15′ 1″)

Description	**UNIT**	**HL760-7A**	**HL760XTD-7A**
G. Front overhang	mm (ft-in)	2,745 (9′)	3,210 (10′ 6″)
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)	3,210 (10′ 6″)	3,210 (10′ 6″)
K. Height over cab	mm (ft-in)	3,440 (11′ 3″)	3,440 (11′ 3″)
L. Roll-back angle — on ground	deg	42	42
L. Roll-back angle — at carry	deg	47	49
M. Dump angle	deg	47	47
Clearance circle	mm (ft-in)	13,360 (43′ 10″)	13,800 (45′ 3″)
N. Overall width	mm (ft-in)	2,900 (9′ 6″)	2,900 (9′ 6″)