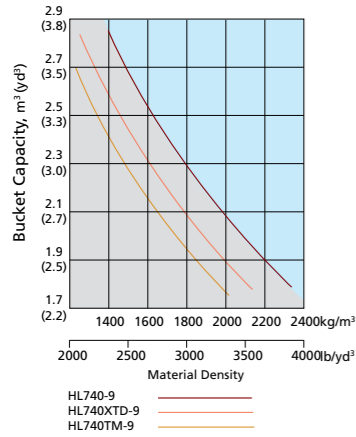


## BUCKET SELECTION GUIDE



## 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 L2	-308 (-679)	-220 (-480)	-190 (-420)
17.5-25 12PR L3	-248 (-547)	-170 (-375)	-150 (-330)
20.5-25 16PR L2	-64 (-141)	-45 (-100)	-40 (-90)
17.5 R25 XHA*	-160 (-353)	-110 (-240)	-100 (-220)
20.5 R25 XHA*	+507 (+1,118)	+360 (+790)	+310 (+680)

## 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, 850 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 LED dome lights
  - 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 rear roof
- Switches
  - work load
  - clutch cut-off
  - hazard
  - Ignition key, start/stop switch
  - main light(illumination and head light)
  - parking
  - rear wiper & washer
  - work light
  - battery mater switch
  - pilot cut-off
- Starter, electric
- Starting and charging system (24-volt)
- Cab**
- Cab, ROPS(ISO3471)/FOPS(ISO3449) (sound suppressed and pressurized) with :
  - transmission gear range indicator
  - job time and distance
  - temperature(coolant, hydraulic oil, T/M oil)
  - 2 LED dome lights
  - 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 rear roof
  - work load
  - clutch cut-off
  - hazard
  - Ignition key, start/stop switch
  - main light(illumination and head light)
  - parking
  - rear wiper & washer
  - work light
  - battery mater switch
  - pilot cut-off
  - starter, electric
  - starting and charging system (24-volt)
  - cigar lighter & ashtray
  - 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 (2 inside)
  - Rear view mirrors (2 outside)
  - 2" retractable seat belt & adjustable suspension seat with armrests
  - tilt / telescopic steering column
  - steering wheel with knob
  - sunvisor (front window)
  - tinted safety glass
  - Magazine pocket
  - Pedals
    - one accelerator pedal
    - one brake pedal
  - Rubber floor mat
  - Wrist rest
  - Radio/USB player
  - Engine, Cummins QSB6.7
  - low Emission Diesel, Tier-III
  - 3 operating mode
  - power/standard/econo
  - sensing type
  - Engine fuel priming pump
  - Fan guard
  - Fuel/water separator
  - Fuel warmer
  - 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
  - Differential, Front : limited Slip
  - Rear : conventional
  - Parking brake
  - Torque converter
  - Transmission, computer-controlled, electronic soft shift, auto-shift and quick-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
  - 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)
  - Guard, bucket cylinder rod
  - Hydraulic oil level sight gauge
  - License plate bracket
  - Lift and tie-down hooks
  - Steering stops, cushioned
  - Tires(20.5-25, 16PR,L3)
  - Transmission oil site level
  - Vandalism protection caplocks

## 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
- Differential, Rear : limited slip
- Secondary steering system
- Fire extinguisher
- High lift arrangement with additional counterweight, 900 kg (1,980 lb)
- Hydraulic control, 2 lever
- Hydraulic control, 3 lever
- 3rd spool for auxiliary function
- Joystick with travel switch(FNR)
- Mud guard
- Operator suit
- Ride control system
- 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 :
  - 17.5 - 25, 12PR, L2
  - 17.5 - 25, 12PR, L3
  - 20.5 - 25, 16PR, L2
  - 17.5 R25 XHA
  - 20.5 R25 XHA
- Tool kit
- Tool, 1 piece, bolt-on type
- Guards
  - crankcase
  - transmission
  - Metal chock
  - Plate
  - (Remote Management System)
  - Rear view camera
  - Brake pedal
  - Roll-screen(rear window)
  - License plate & lamp
  - Pre-cleaner engine air intake

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

www.hyundai-ce.com

2010.03 Rev 0

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We build a better future

# HL740-9

With Tier 3 Engine installed



\*Photo may include optional equipment.

**HYUNDAI**  
HEAVY INDUSTRIES CO.,LTD.

# 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!

# HL740-9

## Machine Walk-Around

### Reliable Main Components

#### Engine Technology

Proven, reliable, fuel efficient, low noise Cummins Tier-III QSB6.7 engine  
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion  
HPCR(High Pressure Common Rail) fuel system / Self-diagnostic system  
Enhanced function of fuel pre-filter / Enhanced reliability of main parts  
3 step(Power / Standard / Economy) operating mode controlled by switch

#### ZF Full Automatic Transmission

4 step(Marshal / 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 & FNR switch for operating comfort

#### Axle

Limited slip front differential and rear conventional differential for easy driving on variable ground condition  
Self-adjusting & wheel speed brake

### Improved Durability

Load sensing pump with variable displacement / Closed center type load sensing MCV  
Improved cooling system resistant to thermal shock, impulse and vibration  
Reinforced and welding stress free cast steel steering cylinder lug & bucket link

### Enhanced Operator Comfort

#### Improved Visibility

Enlarged cab with rounded front center glass  
Good side visibility with newly applied glass on the lower door  
Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade

#### Improved Convenience

Increased cooling & heating capacity with full auto air-con control  
Tilting & telescopic steering column and adjustable wrist rest to best suit operator preferences  
Various storages in the cab / Radio & USB MP3 player  
Aluminum die casting ladder and step for easy and safe entry & exit

#### Advanced 7" Color Cluster

New color LCD display with easy to read digital gauges for hydraulic oil temperature, water temperature and fuel  
Monitoring system of boom & bucket position and bucket pay load for overload prevention and work efficiency  
Self diagnostic & monitoring - display condition of engine, transmission and electric devices  
Rear view camera for easy and safe work  
RMS(Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support

### Serviceability

Reversible remote cooling fan for the minimum fuel consumption and low noise  
Ground level of service points and sight gauges for easy maintenance  
Extended life of hydraulic filter & oil to reduce operating costs



\*Photo may include optional equipment.

# Operator Preference

Operating a 9 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.



## Spacious 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 9 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) make working in cold weather more hospitable.

## Operator Comfort

In the 9 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. An FNR (Forward/Neutral/Reverse) switch on the control lever facilitates easy selection of travel direction. Roller style sun screens on the front window and rear 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

## Reduced Stress

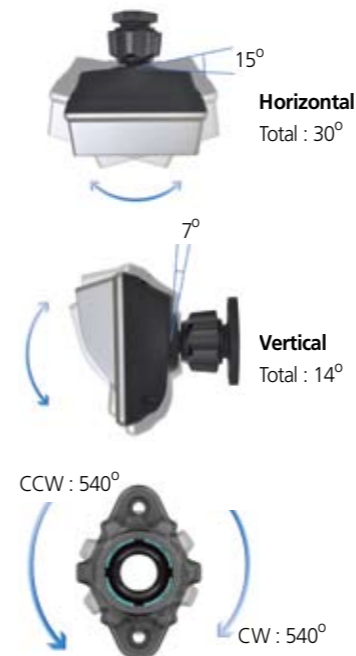
Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series cabin offers lots of amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio 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. The operator can adjust boom kick-out and bucket position via switches overhead while monitoring the adjustment settings through the monitor. An integrated load weight system that contributes to improved work efficiency, can also be viewed through the monitor. 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 9 series wheel loader fast, smooth and easy to control. 9 series wheel loaders are designed for maximum performance to keep the operator working productively.



## 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. 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. Service and clean-out are easier on the 9 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. Additionally, the redesigned steering cylinder lug and bucket link, are now cast steel for additional strength and reliability.

## Variable 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 activation based on the job condition and personal operator preference. Convenient rotary type switches allow for easy adjustment of engine power mode, 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 9 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 QSB 6.7 Engine

The CUMMINS QSB6.7 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 QSB6.7 Cummins engine complies with current emissions standards including EPA Tier3 and EU Stage III-A.



## Full 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.

\*Photo may include optional equipment.

# Profitable

The 9 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.



## 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 9 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. 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)

9 series wheel loaders can be equipped with optional full rear fenders and front and rear mud flaps to reduce material splatter to the cab and machine frame.



Hydraulic filter  
(1,000 hr)



Hydraulic Oil  
(5,000 hr)

## Extended Life Components

The 9 series is designed for reduced lubrication intervals and extended component life. Long life hydraulic filters now have 1,000 hours service intervals and Hyundai certified 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.

\*Photo may include optional equipment.

<http://thespareparts.com>

# Specifications & Dimensions

## ENGINE

<b>Maker/Model</b>	CUMMINS QSB6.7	<b>Bore x Stroke</b>	107 mm (4.21") x 124 mm (4.88")
<b>Type</b>	4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine	<b>Displacement</b>	6.7 l (409 cu in)
<b>Gross power</b>	145 HP(108 kW) / 2,100rpm	<b>Compression ratio</b>	17.2 : 1
<b>Net power</b>	143 HP(107 kW) / 2,100rpm	<b>Air cleaner</b>	Dry, dual elements
<b>Maximum torque</b>	69 kg-m(499 lb-ft) / 1,400rpm	<b>Alternator</b>	70 Amp
<b>No. of cylinders</b>	6	<b>Battery</b>	2 x 12V, 100 Ah.
		<b>Starting motor</b>	24V, 3.7 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

<b>Torque converter type</b>	3-elements, single-stage single-phase	<b>Travel speed</b>	<b>km/h (mph)</b>
<b>Tire</b>	20.5-25, L3	<b>Forward</b>	
		1st	6.7(4.2)
		2nd	12.2(7.6)
		3rd	23.8(14.8)
		4th	39.0(24.2)
		<b>Reverse</b>	
		1st	7.1(4.4)
		2nd	12.9(8.0)
		3rd	25.1(15.6)

※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

<b>Drive system</b>	Four-wheel drive system	<b>Hub reduction</b>	Planetary reduction at wheel end
<b>Mount</b>	Rigid front axle and oscillating rear axle	<b>Differential</b>	Front Limited Slip, Rear Conventional
<b>Rear axle oscillation</b>	±12° (total 24°)	<b>Reduction ratio</b>	22.0

## HYDRAULIC SYSTEM

<b>Type</b>	Load-sensing hydraulic system	<b>Bucket Controls</b>	Type	Pilot operated lift and tilt circuit, single joystick control standard.
<b>Pump</b>	Variable axial piston type, 155 liters/min (40.9 gal/min)@governed rpm	<b>Lift Circuit</b>		The valve has four functions ; raise, hold, lower and float. Can adjust automatic kickout from horizontal to full lift.
<b>Control valve</b>	2spool (Bucket, Boom) 3spool (Bucket, Boom, Aux) Pilot pressure controlled type System pressure : 280 kgf/cm <sup>2</sup> (3.982PSI)	<b>Tilt Circuit</b>		The valve has three functions ; tilt back, hold and dump. Can adjust automatic bucket positioner to desired load angle.
		<b>Cylinders</b>	Type : Double acting No. of cylinders-bore x stroke;	
			HL740-9/HL740XTD-9/HL740TM-9	2-ø110 mm x 738 mm(4.3" x 29.5")
			HL740-9/HL740XTD-9	ø125 mm x 505 mm(4.9" x 19.9")
			HL740-9	2-ø95 mm x 745 mm(3.7" x 29.3")
		<b>Cycle Time</b>	HL740-9 / HL740XTD-9	HL740TM-9
		Raise(with load)	5.5 sec	5.5 sec
		Dump	1.1 sec	1.6 sec
		Lower(empty)	3.0 sec	3.0 sec
		Total	9.6 sec	10.1 sec

## BRAKES

<b>Service Brakes</b>	Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-to-axle system. Self adjusting 8" on board brake
<b>Parking Brake</b>	Spring-applied, hydraulically released brake in front Axle
<b>Emergency Brake</b>	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.

## STEERING SYSTEM

<b>Steering Type</b>	Load-sensing hydrostatic articulated steering	
<b>Pump</b>	Piston pump, 155 l/min (40.9 gal/min)@governed rpm	
<b>Relief Valve Setting</b>	210 kg/cm <sup>2</sup> (2,986 psi)	
<b>Cylinder</b>	Type Bore x Stroke	Double acting 65mm x 429mm(2.6" x 16.9")
<b>Steering Angle</b>	40°(each direction)	

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

## SERVICE REFILL CAPACITIES

<b>Fuel tank</b>	220 liters (58.1 USgal)
<b>Cooling system</b>	34 liters (9.0 USgal)
<b>Crankcase</b>	18 liters (4.8 USgal)
<b>Transmission</b>	25 liters (6.6 USgal)

<b>Front axle</b>	21.8 liters (5.8 USgal)
<b>Rear axle</b>	21.8 liters (5.8 USgal)
<b>Hydraulic tank</b>	152 liters (40.2 USgal)
<b>Hydraulic system (including tank)</b>	184 liters (48.6 USgal)

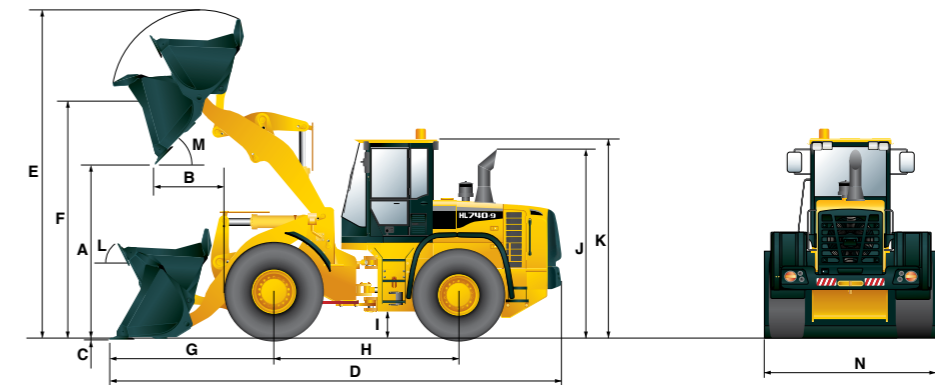
## OVERVIEW

Description	UNIT	HL740-9	HL740XTD-9	HL740TM-9	
Operating weight	kg (lb)	12,000 (26,460)	12,300 (27,100)	12,600 (27,780)	
Bucket capacity	Heaped	m <sup>3</sup> (yd <sup>3</sup> )	2.3 (3.0)	2.3 (3.0)	2.3 (3.0)
	Struck	m <sup>3</sup> (yd <sup>3</sup> )	2.0 (2.6)	2.0 (2.6)	2.0 (2.6)
Breakout force-bucket	kg (lb)	11,250 (24,800)	11,090 (24,450)	10,830 (23,880)	
Tipping load	Straight	kg (lb)	9,600 (21,160)	8,580 (18,920)	7,950 (17,530)
	Full turn	kg (lb)	8,300 (18,300)	7,440 (16,400)	7,000 (15,430)

## TIRES

<b>Type</b>	Tubeless, loader design tires
<b>Standard</b>	20.5-25, 16 PR, L3
<b>Options include</b>	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	HL740-9	HL740XTD-9	HL740TM-9	
Bucket Type		General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle.	mm (ft-in)	2,785 (9' 2")	3,210 (10' 6")	2,840 (9' 4")	
B. Reach	Full lift	mm (ft-in)	1,025 (3' 4")	1,020 (3' 6")	1,330 (4' 4")
	7ft height	mm (ft-in)	1,530 (5')	1,890 (6' 2")	1,805 (5' 11")
C. Digging depth	mm (in)	90 (3.7")	130 (5.1")	100 (3.9")	
D. Overall length	on ground	mm (ft-in)	7,380 (24' 3")	7,830 (25' 8")	7,660 (25' 2")
	at carry	mm (ft-in)	7,320 (24')	7,780 (25' 6")	7,460 (24' 6")
E. Overall height (fully raised)	mm (ft-in)	5,120 (16' 10")	5,540 (18' 2")	5,260 (17' 3")	
F. Bucket pivot max. height	mm (ft-in)	3,820 (12' 6")	4,240 (13' 11")	3,980 (13' 1")	

Description	UNIT	HL740-9	HL740XTD-9	HL740TM-9
G. Front overhang	mm (ft-in)	2,480 (8' 6")	2,890 (9' 6")	2,715 (8' 11")
H. Wheelbase	mm (ft-in)	2,900 (9' 6")	2,900 (9' 6")	2,900 (9' 6")
I. Ground clearance	mm (ft-in)	417 (1' 4")	417 (1' 4")	417 (1' 4")
J. Height over exhaust	mm (ft-in)	3,170 (10' 5")	3,170 (10' 5")	3,170 (10' 5")
K. Height over cab	mm (ft-in)	3,260 (10' 8")	3,260 (10' 8")	3,260 (10' 8")
L. Roll-back angle	on ground	deg	42	42
	at carry	deg	47	49
M. Dump angle	deg	48	47	50
Clearance circle	mm (ft-in)	11,620 (38' 1")	12,000 (39' 4")	11,665 (38' 3")
N. Overall width	mm (ft-in)	2,600 (8' 6")	2,600 (8' 6")	2,550 (8' 4")