

Specifications

HL740-9A

ENGINE

Maker/Model	CUMMINS QSB6.7
Type	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	118 kW / 2,100 rpm
Net power	116 kW / 2,100 rpm
Maximum torque	82 kg.m / 1,500 rpm
No. of cylinders	6

※ This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.

Bore x Stroke	107 mm x 124 mm
Displacement	6.7 liters
Compression ratio	17.3 : 1
Air cleaner	Dry, Two stages dual elements
Alternator	24 V; 70 A
Battery	2 x 12 V, 92 Ah.
Starting motor	24 V; 7.8 kW

TRANSMISSION

Torque converter type	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.

Travel speed		km/h
Forward	1st	6.9
	2nd	12.5
	3rd	24.1
	4th	39.5
Reverse	1st	7.2
	2nd	13.1
	3rd	25.3

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
Reduction ratio	1 : 24.666

HYDRAULIC SYSTEM

Type	Load-sensing hydraulic system
Pump	Variable axial piston type, 155 lpm (40.9 gal/min)@governed rpm
Control valve	3 spool (Bucket, Boom, Aux) Pilot pressure controlled type
System pressure	280 kgf/cm ²

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.
	Tilt Circuit	The valve has three functions ; tilt back, hold and dump.
Cylinders		Type : Double acting No. of cylinders-bore x stroke; Lift HL740-9A 2 - ø 110 mm x 738 mm (4.3" x 29.5") Tilt HL740-9A 1 - ø 125 mm x 505 mm (4.9" x 19.9")
Cycle Time		HL740TM-9A
Raise (with load)		5.5 sec
Dump		1.1 sec
Lower (empty)		3.0 sec
Total		9.6 sec

Specifications

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BRAKES

Service Brakes	Hydraulically actuated, wet disc brakes Self adjusting & wheel speed brake
Parking Brake	Spring-applied, hydraulically released
Emergency Brake	When brake oil pressure drops, parking brake applies automatically.

STEERING SYSTEM

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

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

SERVICE REFILL CAPACITIES

Fuel tank	220 liters (58.1 USgal)
Cooling system	43 liters (11.4 USgal)
Crankcase	18 liters (4.8 USgal)
Transmission	25 liters (6.6 USgal)

Front axle	24 liters (6.3 USgal)
Rear axle	23 liters (6.1 USgal)
Hydraulic tank	130 liters (34.3 USgal)
Hydraulic system (including tank)	164 liters (43.3 USgal)

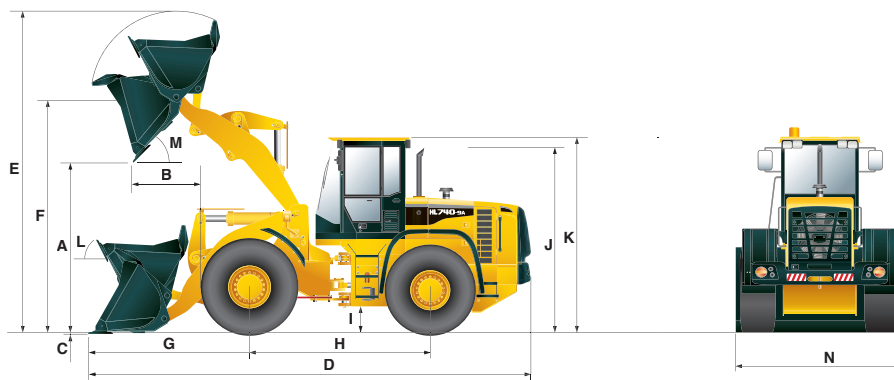
OVERVIEW

Description	UNIT	HL740-9A	HL740XTD-9A	HL740TM-9A
Operating weight	kg	12,700	13,000	13,300
Bucket Capacity	Heaped	m ³	2.3	2.3
	Struck	m ³	2.0	2.0
Breakout force-bucket	kg	11,250	11,090	10,830
Tipping load	Straight	kg	9,870	8,810
	Full turn	kg	8,490	7,640

TIRES

Type	Tubeless, loader design tires
Standard	20.5-25, 16 PR, L3
Options include	17.5-25, 12 PR, L3 20.5-25, 16 PR, L2 20.5 R25 XHA* 20.5-25, 16 PR, L5 23.1-26, 16.PR, LS2

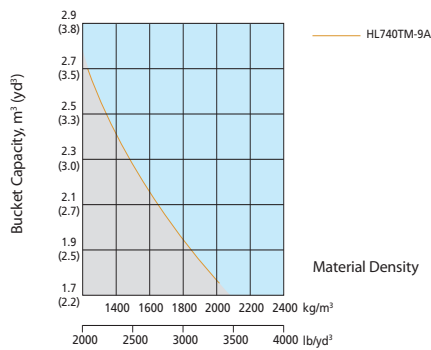
DIMENSIONS



Description	UNIT	HL740-9A	HL740XTD-9A	HL740TM-9A
Bucket Type	General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle.	mm	2,785	3,210	2,840
B. Reach	full lift	mm	1,025	1,020
	7ft height	mm	1,530	1,890
C. Digging depth	mm	90	130	100
D. Overall length	bucket on ground	mm	7,345	7,785
	carry position	mm	7,285	7,735
E. Overall height (fully raised)	mm	5,120	5,540	5,260
F. Bucket pin at max. height	mm	3,820	4,240	3,980

Description	UNIT	HL740-9A	HL740XTD-9A	HL740TM-9A
G. Front overhang	mm	2,480	2,890	2,715
H. Wheelbase	mm	2,900	2,900	2,900
I. Ground clearance	mm	417	417	417
J. Height over exhaust	mm	3,024	3,170	3,024
K. Height over cabin	mm	3,260	3,260	3,260
L. Max Bucket roll back angle	ground	deg	42	42
	carry	deg	47	49
M. Max. Bucket dump angle	deg	48	47	50
Clearance circle	mm	11,620	12,000	11,665
N. Overall width	mm	2,600	2,600	2,550

BUCKET & TIRE SELECTION GUIDE



Description	Change in operating weight kg	Change in static tipping load-straight kg	Change in static tipping load-40° turn kg
17.5-25 12PR L2	-308	220	-190
17.5-25 12PR L3	-248	-170	-150
20.5-25 16PR L2	-64	-45	-40
17.5 R25 XHA*	-160	-110	-100
20.5 R25 XHA*	+507	+360	+310

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, 820 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 hours counter
 - engine rpm
 - transmission gear range indicator
 - job time and distance
 - temperature (coolant, hydraulic oil, T/M oil)
- Lighting system
 - 1 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 lights (working and head lights)
 - parking

- rear wiper & washer
- work light
- battery master switch
- pilot cut-off
- Starter, electric
- Starting and charging system (24-volt)
- Cabin**
- Cabin, ROPS/FOPS (sound suppressed and pressurized) with :
 - cigar lighter & ashtray
 - coat hook
- Automatic climate control
 - air conditioner & heater
 - defroster
- Intermittent wiper and washer, front and rear
- Personal storage space:
 - console box
 - holder, can and cup
- Rear view mirrors (1 inside)
- Rear view mirrors (2 outside)
- 2" retractable seat belt & adjustable suspension seat with armrests

- Steering column, tilt and telescopic
- Steering wheel with knob
- Roller type sun visor (front window)
- Tinted safety glass
- Magazine pocket
- Pedals
 - one accelerator pedal
 - one brake pedal
- Radio/USB player (Bluetooth hands free)
- Rubber floor mat
- Wrist rest
- Engine**
- Engine, Cummins QSB6.7
 - low Emission Diesel, Tier 4 interim / EU Stage IIIB
- 3 operating modes
 - power/standard/economy
- Engine enclosure, lockable
- Engine fuel priming pump
- Fan guard
- Fuel/water separator
- Fuel warmer
- Catalyst (DOC)

- Rain cap, engine air intake
- Radiator (deaeration type)
- Starting aid (air intake heater)
- Water sensor on fuel filter
- Power Train**
- Service brake, enclosed wet-disc
- Parking brake
- Torque converter
- Transmission, computer-controlled, electronic soft shift, auto-shift and kick-down features included
- Transmission oil cooler
- Hydraulics**
- Automatic boom kickout
- Automatic bucket positioner
- Diagnostic pressure taps
- Hydraulic system,
 - 2 spool, single lever pilot control for boom and bucket activation
- Steering, load-sensing
- Remote cooling fan, hydraulically-driven, temperature sensing type

- Others**
- Articulation locking bar
- Coolant level sight gauge
- Counterweight, standard
- Doors and cabin, one key fits all
- Drawbar with pin
- Engine oil level dipstick gauge
- Ergonomically located and slip resistant, left & right handrails
- ladders
- platforms
- steps
- Front and rear fenders
- Guard, bucket cylinder rod
- Hydraulic oil level sight gauge
- License plate holder and lamp
- Lift and tie-down hooks
- Cushioned steering stops
- Tires (20.5-25, 16PR, L3)
- Transmission oil level sight gauge
- Vandalism protection caplocks
- Limited slip differential (front)
- Conventional axle

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

- Secondary steering system
- Fire extinguisher
- High lift arrangement with additional counterweight, 600 kg (1,320 lb)
- Hydraulic control Fingertip (2 spool & 3 spool)
- 3rd spool for aux function joystick with travel switch (FUR)
- Mud guard

- 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
 - 23.1 - 26, 16PR, LS2
- Tool kit
- Tooth, 1 piece, bolt-on type

- Tooth, 2 pieces, bolt-on type
- Guards
 - crankcase
 - transmission
- Wheel chock
- HI-Mate (Remote Management System)
- Rear view camera
- Dual-brake pedal
- Roller type sunshade (rear window)

- License plate & lamp
- Pre-cleaner engine air intake
- Limited slip differential (rear)
- Quick coupler piping

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to international standards.
 * The photos may include attachments and optional equipment that are not available in your area.
 * Materials and specifications are subject to change without advance notice.
 * All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

