

# Specifications

# HL730-9A

## ENGINE

<b>Maker/Model</b>	CUMMINS QSB4.5
<b>Type</b>	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
<b>Gross power</b>	97 kW / 2,200 rpm
<b>Net power</b>	95 kW / 2,200 rpm
<b>Maximum torque</b>	63 kg.m / 1,500 rpm
<b>No. of cylinders</b>	4

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

<b>Bore x Stroke</b>	107 mm x 124 mm
<b>Displacement</b>	4.5 liters
<b>Compression ratio</b>	17.2 : 1
<b>Air cleaner</b>	Dry, Two stages dual elements
<b>Alternator</b>	24 V; 70 A
<b>Battery</b>	2 x 12 V, 100 Ah.
<b>Starting motor</b>	24 V; 4.8 kW

## TRANSMISSION

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

※ 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</b>
<b>Forward</b>	1st	6.8
	2nd	12.4
	3rd	24.1
	4th	39.2
<b>Reverse</b>	1st	7.2
	2nd	13.1
	3rd	25.3

## AXLES

<b>Drive system</b>	Four-wheel drive system
<b>Mount</b>	Rigid front axle and oscillating rear axle
<b>Rear axle oscillation</b>	+/- 10° (total 20°)

<b>Hub reduction</b>	Planetary reduction at wheel end
<b>Reduction ratio</b>	1 : 19.84

## HYDRAULIC SYSTEM

<b>Type</b>	Load-sensing hydraulic system
<b>Pump</b>	Variable axial piston type, 126 lpm (33.3 gal/min)@governed rpm
<b>Control valve</b>	3 spool (Bucket, Boom, Aux) Pilot pressure controlled type
<b>System pressure</b>	250 kgf/cm <sup>2</sup>

<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.	
	Tilt Circuit	The valve has three functions ; tilt back, hold and dump.	
<b>Cylinders</b>		Type : Double acting No. of cylinders-bore x stroke;	
Lift	HL730-9A / HL730XTD-9A / HL730TM-9A	2 - ø 100 mm x 750 mm (3.9" x 29.5")	
Tilt	HL730-9A / HL730XTD-9A / HL730TM-9A	ø 110 mm x 510 mm (4.3" x 20") ø 110 mm x 515 mm (4.3" x 20.3") 2 - ø 90 mm x 775 mm (3.5" x 30.5")	
<b>Cycle Time</b>		HL730-9A / HL730XTD-9A	HL730TM-9A
Raise (with load)		5.4 sec	5.4 sec
Dump		1.0 sec	1.6 sec
Lower (empty)		2.8 sec	2.8 sec
Total		9.2 sec	9.8 sec

# Specifications

# HL730-9A

## BRAKES

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

## STEERING SYSTEM

<b>Type</b>	Load-sensing hydrostatic articulated steering		
<b>Pump</b>	Piston pump, 126 lpm (33.3 gal/min)@governed rpm		
<b>Relief Valve Setting</b>	210 kg/cm <sup>2</sup>		
<b>Cylinder</b>	Type	Double acting	
	Bore x Stroke	60 mm x 412 mm (2.4" 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>	200 liters (52.8 USgal)
<b>Cooling system</b>	30 liters (7.9 USgal)
<b>Crankcase</b>	11 liters (2.9 USgal)
<b>Transmission</b>	20 liters (5.3 USgal)

<b>Front axle</b>	17 liters (4.5 USgal)
<b>Rear axle</b>	17 liters (4.5 USgal)
<b>Hydraulic tank</b>	121 liters (32.0 USgal)
<b>Hydraulic system (including tank)</b>	154 liters (40.7 USgal)

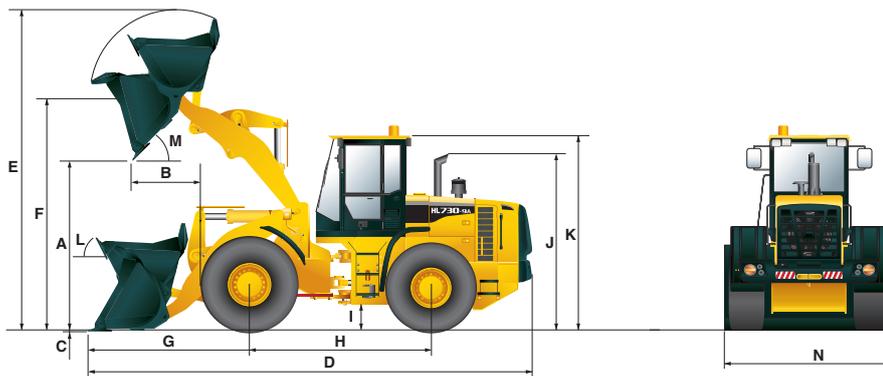
## OVERVIEW

Description	UNIT	HL730-9A	HL730XTD-9A	HL730TM-9A
Operating weight	kg	10,500	10,700	10,900
Bucket Capacity	Heaped	m <sup>3</sup>	1.9	1.7
	Struck	m <sup>3</sup>	1.6	1.45
Breakout force-bucket	kg	9,150	9,070	9,960
Tipping load	Straight	kg	8,740	7,475
	Full turn	kg	7,630	6,425

## TIRES

<b>Type</b>	Tubeless, loader design tires
<b>Standard</b>	17.5-25, 12 PR, L3
<b>Options include</b>	17.5-25, 12 PR, L2 17.5 R25 XHA*

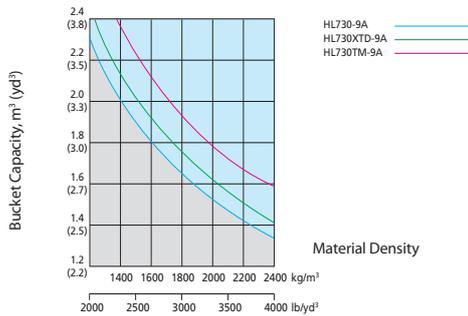
## DIMENSIONS



Description	UNIT	HL730-9A	HL730XTD-9A	HL730TM-9A
Bucket Type	General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle.	mm	2,700	3,035	2,785
B. Reach	full lift	mm	1,040	1,010
	7ft height	mm	1,470	1,730
C. Digging depth	mm	103	117	95
D. Overall length	bucket on ground	mm	7,000	7,290
	carry position	mm	6,945	7,255
E. Overall height (fully raised)	mm	4,850	5,190	4,900
F. Bucket pin at max. height	mm	3,640	3,980	3,795

Description	UNIT	HL730-9A	HL730XTD-9A	HL730TM-9A
G. Front overhang	mm	2,365	2,655	2,470
H. Wheelbase	mm	2,800	2,800	2,800
I. Ground clearance	mm	370	370	370
J. Height over exhaust	mm	3,061	3,061	3,061
K. Height over cabin	mm	3,170	3,170	3,170
L. Max Bucket roll back angle	ground	deg	42	50
	carry	deg	47	54
M. Max. Bucket dump angle	deg	48	48	50
Clearance circle	mm	11,160	11,430	11,240
N. Overall width	mm	2,450	2,450	2,400

## 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	-60	-50	-40
17.5 R25 XHA*	80	60	50

## 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

- 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
  - detent enable
  - kick down set
  - 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 QS84.5
  - 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

- 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 (300 kg)
- 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
- Lift and tie-down hooks
- Cushioned steering stops
- Tires (17.5-25, 12PR,L3)
- Transmission oil level sight gauge
- Vandalism protection caplocks
- Limited slip differential (front)
- Conventional rear 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, 410 kg
- Hydraulic control Fingertip (2 spool & 3 spool)
- 3rd spool for aux function joystick with travel switch

- (FNR)
- 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 R25 XHA

- 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

