

Specifications

HL770-9A

ENGINE

Maker/Model	CUMMINS QSL9	Bore x Stroke	114 mm x 145 mm
Type	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine	Displacement	8.9 liters
Gross power	224 kW / 2,000 rpm	Compression ratio	17.8 : 1
Net power	221 kW / 2,000 rpm	Air cleaner	Dry, dual elements
Maximum torque	148 kg.m / 1,400 rpm	Alternator	24 V; 70 A
No. of cylinders	6	Battery	2 x 12 V, 160 Ah.
		Starting motor	24 V; 7.8 kW

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

TRANSMISSION

Torque converter type	3-elements, single-stage single-phase	Travel speed	4 speed T/M	5 speed T/M with lock up clutch	
		Forward	1st	7.0 km/h	6.9 km/h
			2nd	12.5 km/h	12.4 km/h
			3rd	27.6 km/h	20.1 km/h
			4th	42.0 km/h	28.7 km/h
			5th	/	46.0 km/h
		Reverse	1st	7.0 km/h	6.9 km/h
			2nd	12.5 km/h	12.4 km/h
			3rd	27.6 km/h	28.7 km/h

※ 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	Reduction ratio	1 : 23.334
Rear axle oscillation	+/- 12° (total 24°)		

HYDRAULIC SYSTEM

Type	Load-sensing hydraulic system	Bucket Controls	Type	Pilot operated lift and tilt circuit, single-lever joystick control standard.
Pump	Variable axial piston pump, 342 liters/min		Lift Circuit	The valve has four functions ; raise, hold, lower and float.
Control valve	3 spool (Bucket, Boom, Aux) Pilot pressure controlled type		Tilt Circuit	The valve has three functions ; tilt back, hold and dump.
System pressure	280 kgf/cm ²	Cylinders		Type : Double acting No. of cylinders-bore x stroke; Lift 2-160 mm x 765 mm Tilt 1-180 mm x 570 mm
		Cycle Time		Raise : 5.4 sec Dump : 1.3 sec Lower : 2.8 sec Total : 9.5 sec

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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, 220 liters/min
Relief Valve Setting	210 kg/cm ²
Cylinder	Type: Double acting Bore x Stroke: 95 mm x 480 mm
Steering Angle	40°

SERVICE REFILL CAPACITIES

Fuel tank	390 liters
Cooling system	55 liters
Crankcase	23 liters
Transmission	43 liters

Front axle	51 liters
Rear axle	40 liters
Hydraulic tank	200 liters
Hydraulic system (including tank)	292 liters

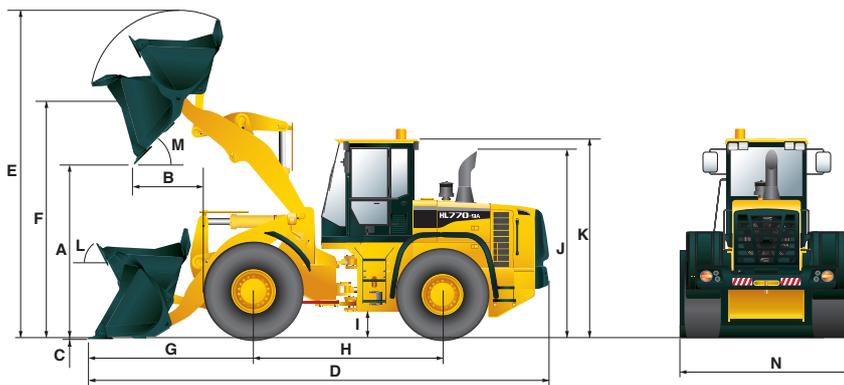
OVERVIEW

Description	UNIT	HL770-9A	HL770XTD-9A
Operating weight	kg	23,500	24,250
Bucket Capacity	Heaped	m ³	4.2
	Struck	m ³	3.6
Breakout force-bucket	kg	21,740	21,390
Tipping load	Straight	kg	17,730
	Full turn	kg	15,350

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

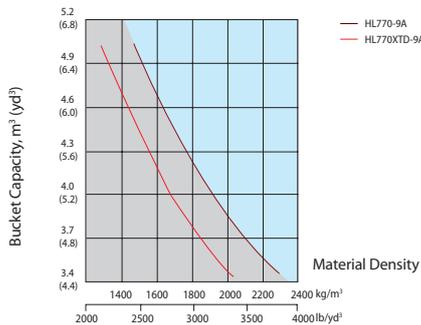
DIMENSIONS



Description	UNIT	HL770-9A	HL770XTD-9A
Bucket Type	General purpose bolt-on cutting edge		
A. Dumping clearance at max. height and 45° dump angle.	mm	3,090	3,540
B. Reach	full lift	mm	1,295
	7ft height	mm	1,920
C. Digging depth	mm	100	130
D. Overall length	bucket on ground	mm	8,700
	carry position	mm	8,590
E. Overall height (fully raised)	mm	5,890	6,340
F. Bucket pin at max. height	mm	4,310	4,760

Description	UNIT	HL770-9A	HL770XTD-9A
G. Front overhang	mm	2,990	3,400
H. Wheelbase	mm	3,500	3,500
I. Ground clearance	mm	480	480
J. Height over exhaust	mm	3,150	3,150
K. Height over cabin	mm	3,560	3,560
L. Max. Bucket roll back angle	ground	deg	44
	carry	deg	49
M. Max. Bucket dump angle	deg	48	48
Clearance circle	mm	13,990	14,360
N. Overall width	with bucket	mm	3,100
	without bucket	mm	2,975

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
23.5-25 20PR L3	-472	-350	-310
26.5-25 28PR L3	-4	-3	-2
26.5-25 32PR L3	+164	+120	+110
26.5 R25 XHA*	+108	-80	+70

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, 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

- 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 grill
- Switches
 - clutch cut-off
 - hazard
 - Ignition key, start/stop switch
 - main lights (working and head lights)
 - parking
 - rear wiper & washer

- battery master switch
- pilot cut-off
- Starter, electric
- Heated rear view mirrors
- 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 (2 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
- Two doors
- Magazine pocket
- Pedals
 - one accelerator pedal
 - one brake pedal
- Radio/USB player (Bluetooth hands free)
- Rubber floor mat
- Wrist rest
- Engine**
- Engine, Cummins QSL
 - low Emission Diesel, Tier 4 interim / EU Stage IIIB
- Engine fuel priming pump (Electric)
- 3 operating modes
 - power/standard/economy
- Fan guard
- Fuel/water separator
- Fuel warmer
- Diesel Particulate Filter
- Direct air flow filter with precleaner

- Starting aid (air intake heater)
- Water sensor on fuel filter
- Power Train**
- Service brake, enclosed wet-disc
- Parking brake
- Torque converter
- Transmission, F5 / R3 with lock-up Torque Converter computer-controlled, electronic soft shift, auto-shift and kick-down features included
- Transmission oil cooler
- Limited slip differential (front, rear)
- Hydraulics**
- Automatic boom kickout
- Automatic bucket positioner
- Diagnostic pressure taps
- Hydraulic oil cooler
- Hydraulic system,
 - 3 spool, pilot control
- Steering, load-sensing
- Emergency steering system
- Joystick with FNR-switch

- Ride control system
- Others**
- Articulation locking bar
- Counterweight, standard
- Doors and cabin, one key fits all
- Drawbar with pin
- Ergonomically located and slip resistant, left & right
 - handrails
 - ladders
 - platforms
 - steps
- Front and rear fenders
- Guard, bucket cylinder rod
- License plate holder and lamp
- Lift and tie-down hooks
- Loader linkage, sealed Z-bar design
- Cushioned steering stops
- Tires (26.5-25, 20PR,L3)
- Vandalism protection cap locks
- Reversible cooling fan
- HL-Mate (Remote Management System)
- Rear view camera
- Smart key engine start

OPTIONAL EQUIPMENT

- 24-volt to 12-volt DC converter
- Beacon light
- Auxiliary, 2 working lights on front roof (Xenon working lights)
- Auxiliary, 2 working lights on rear roof
- Cutting edge, bolt-on type

- Dual brake pedal
- Fire extinguisher
- High lift arrangement with additional counterweight, 520 kg (1,146 lb)
- Mud guard
- Pallet forks

- 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:
 - 23.5 - 25, 20PR, L3
 - 26.5 - 25, 28PR, L3
 - 26.5 - 25, 32PR, L3
 - 26.5 - 25, 20PR, L5
 - 26.5 R25 XHA*

- Tooth, 1 piece, bolt-on type
- Tooth, 2 pieces, bolt-on type
- Joystick-steering
- Roller type sun visor (rear window)
- Open differential (front, rear)
- Hyd. lock differential (front)

- Transmission, F4 / R3 without lock-up Torque Converter computer-controlled, electronic soft shift, auto-shift and kick-down features included

* 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

