

HL780-9S UMA

With Tier 3 Engine installed

ENGINE	
Maker / Model	CUMMINS QSM11
Type	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	348 HP (260 kW) at 2,000 rpm
Net power	331 HP (247 kW) at 2,000 rpm
Max. power	365 HP (272 kW) at 1,800 rpm
Maximum torque	171 kg · m (1,235 lbf · ft) at 1,400 rpm
No. of cylinders	6
Bore x Stroke	125×147 mm (4.9×5.8 in)
Displacement	10.8 l (660 in ³)
Compression ratio	16.3 : 1
Air cleaner	Dry, Two stages dual elements
Alternator	24V, 100 A
Battery	2×12V, 220 Ah.
Starting motor	24V, 7.8kW

The engine may be operated up to 2,438m(8,000ft) altitude before electronicderate is applied. This engine meets the EPA(Tier III) / EU(Stage III-A) Emissionregulation.

TRANSMISSION			
Torque converter type	3-elements, single-stage Double-phase		
Tire	26.5 R25, L3		
Travel speed	km/h	mph	
	1st	5.9	3.7
Forward	2nd	11.0	6.8
	3rd	17.2	10.7
	4th	34.5	21.4
	1st	5.9	3.7
Reverse	2nd	11.0	6.8
	3rd	23.8	14.8

※ 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
Mount	Rigid front axle and oscillating rear axle
Rear axle oscillation	±13° (total 26°)
Hub reduction	Planetary reduction at wheel end
Differential	Hydraulic differential lock (Front)
Reduction ratio	27.0

HYDRAULIC SYSTEM		
Type	Open centered tandem circuit system	
Pump	Gear 540 lpm 126 gpm	
Control valve	2 Spool (Bucket, Boom) Pilot pressure controlled type	
System pressure	210 kgf/cm ² (2,990 psi)	
Bucket Controls	Type	Pilot operated lift and tilt circuit, Two-lever(finger tip) 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.
Cylinder	Type	Double acting
	no. of cylinders-bone stroke	
	Lift, bore x stroke	2-200×863 mm 7.0×34.0 in
	Tilt, bore x stroke	2-160×580 mm 5.5×22.6 in
Cycle Time	Raise	6.5 sec(with load)
	Dump	1.3 sec
	Lower	3.1 sec(empty)
	Total	10.9 sec

BRAKES		
Service Brakes	Hydraulically actuated, wet disc brakes actuate all 4 wheels independent axle-by-axle system. Wheel speed brake.	
Parking Brake	Spring-applied, hydraulically released disc brake on transmission output	
Emergency Brake	When brake oil pressure drops, indicator light alerts operator and parking brake automatically applies.	
STEERING SYSTEM		
Type	Full hydraulic power steering	
Pump	Gear 282 lpm 67.4 gpm	
Relief Valve Setting	210 kg/cm (2,990 psi)	
Cylinder	Type	Double acting
	Bore x Stroke	110×480 mm 4.1×18.9 in
Steering Angle	40° (each direction)	

Features
 - Center-point frame articulation.
 - Load-sensing, flow amplified system.
 - Tilt and telescopic steering column.

SERVICE REFILL CAPACITIES		
UNIT	L	US gal
Fuel tank	365	96.4
Cooling system	65	17.2
Crankcase	38	10.0
Transmission	43	11.4
Front axle	62.3	16.5
Rear axle	60.6	16.0
Hydraulic tank	242	63.9
Hydraulic system (including tank)	348	91.9

TIRES	
Type	Tubeless, loader design tires
Standard	26.5 R25, L3

OVERVIEW		
Operating weight	32,800 kg (72,310 lb)	
Bucket capacity	Heaped	5.4 m ³ (7.1 yd ³)
	Struck	4.7 m ³ (6.1 yd ³)
Breakout force-bucket	15,400 kg (33,950 lb)	
Tipping load	Straight	25,825 kg (56,935 lb)
	Full turn	22,235 kg (49,020 lb)

▲ HYUNDAI CONSTRUCTION EQUIPMENT

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2019. 09 Rev. 6

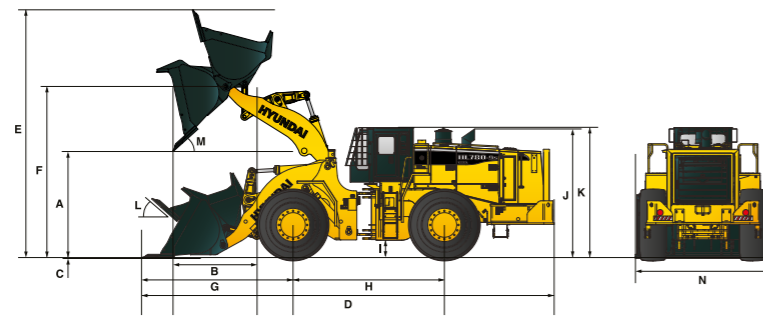


*Photo may include optional equipment.

-  **34.5 km/h**
Max. Speed
-  **32,800 kg**
Operating Weight
-  **5.4 m³**
Bucket Capacity
-  **260/2,000 kW/rpm**
Power (Gross)

DIMENSIONS & STANDARD EQUIPMENT

HL780-9S UMA DIMENSIONS



Unit : mm (ft - in)

Bucket Type	2,780 General purpose bolt-on cutting edge(9' 2")		G Front overhang	3,905	12' 9"	
A Dumping clearance at max. height and 45° dump angle.	2,680	8' 9"	H Wheelbase	3,700	12' 2"	
B Reach	Full lift	1,885	I Ground clearance	430	1' 4"	
	7ft height	2,305	J Height over exhaust	3,200	10' 5"	
C Digging depth	160	6"	K Height over cab	3,200	10' 5"	
D Overall length	Overall length	10,290	L Roll-back angle(on ground/at carry)	42 / 46 deg		
	at carry	9,970	M Dump angle	47 deg		
E Overall height(fully raised)	6,240	20' 5"	Clearance circle	15,060	49' 5"	
F Bucket pivot max. height	4,455	14' 7"	N Overall width	with bucket	3,300	10' 9"
				without bucket	3,110	10' 2"

STANDARD EQUIPMENT

Electrical system Alternator, 100A 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, 1,315 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 hour counter - Engine rpm - Transmission gear range Indicator	- Job time and distance - Temperature (coolant, hydraulic oil, t/m oil) LED Lighting system - 1 dome light - 4 stop and tail lights - 6 turn signals - 4 brake lights(counterweight) - 4 head lights on front fender - 2 working lights on front roof - 2 working lights on grill - 2 working lights on cabin side Switches - Intelligent clutch cut-off - Hazard - Ignition key, start/stop switch - Main light(illumination and head light) - Parking - Rear wiper & washer - Work light - Battery master switch - Emergency engine stop(cabin in/out) - Hydraulic differential lock Starter, electric Starting and charging system(24-volt) Ride control system Secondary steering system Rear view camera 24V-12V DC Converter	Cab Cab, FOPS with : - Cigar lighter Automatic climate control - Air conditioner & heater - Defroster - Intermittent wiper and washer, front Rear view mirrors(1 inside) Rear view mirrors(2 outside) 2" static seat belt & mechanical Suspension seat with armrests Steering column, tilt, telescopic Steering wheel with knob Safety glass Pedals - One accelerator pedal - Two brake pedal Wrist rest Engine Antifreeze Engine, Cummins QSM11 - Low emission diesel, Tier3 Engine enclosure, lockable Fan guard Fuel / water separator 3rd fuel pre filter Muffler, under hood with large exhaust stack Pre cleaner, engine air intake	Radiator Starting aid(air intake heater) Power Train Brakes : Service, enclosed wet-disc Differentials Parking brake Torque converter Transmission, computer-controlled, electronic soft shift, auto-shift and kick-shift features included Transmission oil cooler Axle oil cooling system Heavy duty Axle(Front, Rear) Hyd. Differential Lock(Front) Hydraulics Boom kickout, automatic Bucket positioner, automatic Diagnostic pressure taps Hydraulic oil cooler Hydraulic system, - 2 spool, two lever, pilot control for boom and bucket actuation Steering, load-sensing Remote cooling fan, hydraulically-driven Others Articulation locking bar	Coolant level sight gauge 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 Guard, Transmission and Crankcase Hydraulic oil level sight gauge Lift and tie-down hooks Loader linkage, sealed Z-Bar design Spade nose Rock Bucket Tires(26.5 R25, ★★, L3) Transmission oil site level Vandalism protection caplocks Fire extinguisher(3EA)
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* 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.

Hyundai HL780-9S Wheel Loader Open Up the Future

Excellent durability saves your costs of operation.
 Outstanding power greatly enhances your productivity.

