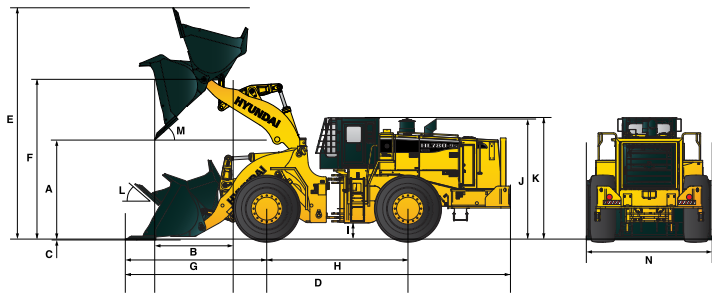


DIMENSIONS



Description			HL780-9S UMA		Description			HL780-9S UMA	
UNIT			mm	ft-in	UNIT			mm	ft-in
Bucket Type			General purpose bolt-on cutting edge		G Front overhang			3905	12' 9"
A Dumping clearance at max. height and 45° dump angle.			2680	8' 9"	H Wheelbase			3700	12' 2"
					I Ground clearance				
B Reach	Full lift		1885	6' 2"	J Height over exhaust			3200	10' 5"
	7ft height		2305	7' 7"	K Height over cab				
C Digging depth			160	6"	L Roll-back angle(on ground/at carry)			42 / 46 deg	
D Overall length	on ground		10290	33' 9"	M Dump angle			47 deg	
	at carry				Clearance circle			15060	49' 5"
E Overall height(fully raised)			6240	20' 5"	N Overall width	with bucket		3300	10' 9"
F Bucket pivot max. height			4455	14' 7"		without bucket		3110	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 woring 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 differentail 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. Differentail 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)		
---	--	--	--	--	--	---	--	--	--	--	--	--	--	--

* 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.



Head Office (Sales Office)
75, YULGOK-RO, JONGNO-GU, SEOUL 03058, KOREA
TEL: (82) (2) 746-7660
Americas Operation : Hyundai Construction Equipment Americas, Inc.
6100 ATLANTIC BOULEVARD NORCROSS GA 30071 U.S.A **TEL:** (1) 847-678-823-7802 **FAX:** (1) 847-678-823-7778
Europe Operation : Hyundai Heavy Industries Europe N.V.
VOSSENDAAL 11, 2440 GEEL, BELGIUM **TEL:** (32) 14-56-2200 **FAX:** (32) 14-59-3405

PLEASE CONTACT



*Photo may include optional equipment.



Specifications

ENGINE

Maker / Model	CUMMINS QSM11		
Type	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine		
Gross power	kW / rpm	260 / 2,000	
	hp / rpm	348 / 2,000	
Net power	kW / rpm	247 / 2,000	
	hp / rpm	331 / 2,000	
Maximum torque	kg·m / rpm	171 / 1,400	
	lb·ft / rpm	1,235 / 1,400	
No. of cylinders	6		

The engine may be operated up to 2438m(8,000ft) altitude before electronic derate is applied. This engine meets the EPA(Tier III) / EU(Stage III-A) Emission regulation.

TRANSMISSION

Torque converter type	3-elements, single-stage Double-phase
Tire	26.5 R25, L3

※ 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°)

HYDRAULIC SYSTEM

Type	Open centered tandem circuit system		
Pump	Gear 476 lpm 126 gpm		
Control valve	2 Spool(Bucket, Boom) Pilot pressure controled type		
System pressure	kgf/cm²	210	
	psi	2,990	

Bore x Stroke	mm	125 x 147
	in	4.9 x 5.8
Displacement	L	10.8
	in³	660
Compression ratio	16.3 : 1	
Air cleaner	Dry, Two stages dual elements	
Alternator	24V, 100 A	
Battery	2 x 12V, 220 Ah.	
Starting motor	24V, 7.8kW	

Travel speed		km/h	mph
Forward	1st	5.9	3.7
	2nd	11.0	6.8
	3rd	17.2	10.7
	4th	34.5	21.4
Reverse	1st	5.9	3.7
	2nd	11.0	6.8
	3rd	23.8	14.8

Hub reduction	Planetary reduction at wheel end
Differential	Hydraulic differential lock(Front)
Reduction ratio	27.0

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	mm	2-200 x 863
			in	7.0 x 34.0
		Tilt, bore x stroke	mm	2-160 x 580
in	5.5 x 22.6			
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	lpm		Gear 255
	gpm		67.4
Relief Valve Setting	kg/cm		210
	psi		2,990
Cylinder	Type	Double acting	
	Bore x Stroke	mm	110 x 480
		in	4.1 x 18.9
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

UNIT	L	US gal
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

Description		UNIT	HL780-9S UMA
Operating weight		kg	32800
		lb	72,310
Bucket capacity	Heaped	m³	5.4
		yd³	7.1
	Struck	m³	4.7
		yd³	6.1
Breakout force-bucket		kg	15400
		lb	33,950
Tipping load	Straight	kg	25825
		lb	56,935
	Full turn	kg	22235
		lb	49,020