Specifications

HL780-9A

ENGINE

Maker/Model	CUMMINS QSX11.9
Туре	Watercooled, 4-cycle, turbocharged, charge aircooled direct injection, electronic controlled diesel engine
Gross power	265 kW / 2,000 rpm
Net power	262 kW / 2,000 rpm
Maximum torque	173 kg.m / 1,400 rpm
No. of cylinders	6

Bore x Stroke	130 mm x 150 mm
Displacement	11.9 liters
Compression ratio	16.6 : 1
Air cleaner	Dry, Two stages dual elements
Alternator	24 V; 80 A
Battery	2 x 12 V, 220 Ah.
Starting motor	24 V; 7.5 kW

TRANSMISSION

Torque converter type	3-elements, single-stage Double-phase
Tire	29.5-25, L3

Travel speed		4 speed T/M	5 speed T/M with lock up clutch
Forward	1st	6.1 km/h	6.1 km/h
	2nd	11.4 km/h	11.8 km/h
	3rd	17.9 km/h	18.3 km/h
	4th	36.0 km/h	26.6 km/h
	5th	/	41.0 km/h
Reverse	1st	6.1 km/h	6.1 km/h
	2nd	11.4 km/h	11.8 km/h
	3rd	24.8 km/h	26.6 km/h

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
Reduction ratio	1:27.0

HYDRAULIC SYSTEM

Туре	Load-sensing hydraulic system
Pump	Variable axial piston pump 420 liters/min
Control valve	3 spool (Bucket, Boom, Aux)
System pressure	280 kgf/cm ²

Bucket Controls	Туре	Electro-Hydraulic control system.
	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	HL780-9A HL780XTD-9A	Type: Double acting Lift, bore x stroke 2-180 mm x 863 mm Tilt, bore x stroke 2-140 mm x 575 mm 2-140 mm x 570 mm
Cycle Time		Raise : 6.1 sec Dump : 1.4 sec Lower : 4.1 sec Total : 11.6 sec

^{*} This engine meets the EPA (Tier 4 interim) / EU(Stage III-B) Emission regulation.

Specifications

HL780-9A

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

Туре		Load-sensing hydrostatic articulated steering
Pump		Piston pump, 220 liters/min
Relief Valve Setting		210 kg/cm ²
Cylinder	Туре	Double acting
	Bore x Stroke	105 mm x 480 mm
Steering Angle		40°

SERVICE REFILL CAPACITIES

Fuel tank	450 liters
Cooling system	65 liters
Crankcase	43 liters
Transmission	43 liters

Front axle	58 liters
Rear axle	58 liters
Hydraulic tank	234 liters
Hydraulic system (including tank)	344 liters

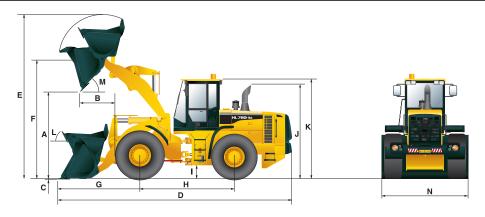
OVERVIEW

Description		UNIT	HL780-9A	HL780XTD-9A
Operating weight		kg		
Pucket Capacity	Heaped	m³	5.4 4.6	5.4
Bucket Capacity	Struck	m³	4.6	4.6
Breakout force-bu	ıcket	kg	23,750	23,130
Therefore Level	Straight	kg	23,960	21,740
Tipping load	Full turn	kg	20,840	18,800

TIRES

Туре	Radial tires
Standard	29.5-25, 22 PR, L3
Options include	26.5-25, 32 PR, L3 29.5-25, 28 PR, L3 29.5-25, 28 PR, L5 29.5 R25 XHA*

DIMENSIONS



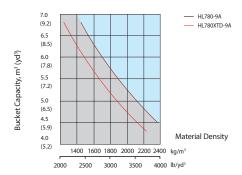
De	Description			HL780-9A	HL780XTD-9A	
	Bucket Type		General purpose bolt-on cutting edge			
A. Dumping clearance at max. height and 45° dump angle.		mm	3,300	3,670		
D	B. Reach	full lift	mm	1,430	1,480	
В.		7ft height	mm	2,150	2,470	
C.	Digging depth		mm 105 11		115	
	D. O	bucket on ground	mm	9,630	10,060	
D.	Overall length	carry position	mm	9,545	9,990	
E.	Overall height (full	y raised)	mm 6,295 6,67		6,670	
F.	Bucket pin at max. height		mm	4,560	4,935	

Description		UNIT	HL780-9A	HL780XTD-9A
G. Front overhang		mm	3,200	3,575
H. Wheelbase	H. Wheelbase		3,700	3,700
I. Ground clearance	I. Ground clearance		495	495
J. Height over exhaus	J. Height over exhaust		3,740	3,740
K. Height over cabin	(. Height over cabin		3,865	3,865
L. Max. Bucket	ground	deg	42	42
roll back angle	carry	deg	48	49
M. Max. Bucket dump	angle	deg	47	47
Clearance circle		mm	14,970	15,310
NI Occasilla della	with bucket	mm	3,450	3,450
N. Overall width	without bucket	mm	3,220	3,220

Specifications

HL780-9A

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
26.5-25 32PR L3	-112	-90	-80
29.5-25 28PR L3	+352	+270	+240
29.5-25 28PR L5	+1,240	+960	+850
29.5 R25 XHA*	+500	+390	+340

STANDARD EQUIPMENT

Electrical system

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, 1315 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

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 (illumination and
- head lights)
- parking
- rear wiper & washer

- working light

- battery master switch
- pilot cut-off

Starter, electric

Heated rear view mirrors

<u>Cabin</u>

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 & adiustable 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

- one accelerator pedal
- one brake pedal

Radio/USB player (Bluetooth hands free) Rubber floor mat

Engine

Engine, Cummins QSX11.9

low Emission Diesel. Tier 4 interim / FU Stage IIIB

Fan guard

3 operating modes power/standard/economy

Fuel/water separator Fuel warmer Diesel Particulate Filter Direct air flow filter with

Starting aid (air intake heater)

Power Train

ervice brake, enclosed wet-disc Differentials, Hydraulic lock front, conventional - rear 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

Hydraulics

Automatic boom kickout Automatic bucket positioner Diagnostic pressure taps Hydraulic oil cooler Hydraulic system,

3 spool, electro-Hydraulic Controls

Steering, load-sensing Emergency steering system Ride control system

Others

Articulation locking bar Counterweight, standardDoors and cabin, one key fits all Drawbar with pin

Ergonomically located and slip

- resistant, left & right
- handrails - ladders
- nlatforms
- steps

Front and rear fenders Guards

- bucket cylinder rod
- crankcase
- transmission

License plate bracket Lift and tie-down hooks Loader linkage, sealed Z-bar design

Cushioned steering stops Tires (29.5-25, 22PR, L3) Vandalism protection cap locks Wheel chock

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. 552 kg (1,210 lb) Pallet forks

- 2" static seat belt & adjustable mechanical suspension (vinvl)

- 3" static seat belt &
- · 2" retractable seat belt & adjustable air suspension (heated)

- 29.5 - 25. 28PR L5

adjustable mechanical suspension

295-25 28PR I 3

- 26.5 - 25, 32PR L3

- 29.5 R25 XHA* Tooth, 2 pieces, bolt-on type

Joystick-steering Roller type sun visor (rear window)

License plate & lamp HI-Mate (Remote Management

Rear view camera Marble application kit Heavy duty axle (Front, Rear) Axle cooling system

Transmission, F4 / R3 without lock-up Torque Converter computer-controlled, electronic soft shift, auto-shift

and kick-down features

included Ignition key (Button type) Smart key engine start

- * 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			

