

R480LC-9S **SMART**

OPERATING WEIGHT: 49500 kgs

GROSS POWER : 353 HP @ 1900 rpm

BUCKET CAPACITY: 3.03m³



MOVING YOU **FURTHER**

* Photo may include optional equipment

Engine Technology

Proven / reliable, fuel efficient Cummins Tier III QSM11 engine Electronically controlled for optimum fuel to air ratio and clean, efficient combustion Low noise / Auto engine overheat feature / Anti-restart feature

Hydraulic System Improvements

New patented hydraulic control for improved controllability / Improved control valve design for added efficiency and smoother operation / New auto boom and swing priority system for optimum speed / New auto power boost feature for additional power when needed / Improved arm-in and boom-down flow regeneration system for added speed and efficiency

Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps New compact solenoid block equipped with 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

Enhanced Operator Cab

Improved Visibility

Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation Larger right-side glass, now one piece, for better right visibility Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

Improved Cab Construction

New steel tube construction for added operator safety, protection and durability. New window open/close mechanism designed with cable and spring lift assist and single latch release.

Improved Suspension Seat / Console Assembly

Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling Heated suspension (standard) or optional air ride suspension with heat New joystick consoles - now adjustable in height by way of dial at bottom Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster

New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature, and fuel. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.

3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference Enhanced self-diagnostic features with GPS download capability One pump flow or two pump flow for optional attachment now selectable through the cluster / New anti-theft system with password capability Boom speed and arm regeneration are selectable through the monitor.

Auto power boost is now available - selectable (on/off) through the monitor.

Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7A series!

RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

Undercarriage

Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps

Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner

Precision

Power Mode	P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and engine power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.
Work Mode	The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.
User Mode	Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.

Performance

Cummins QSM11 Engine

The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSM11 diesel engine is built for power, reliability, efficiency and reduced emissions.

Heavy-duty strength

The QSM11 from Cummins. With advanced electronics. Higher torque. Better throttle response. Shorter service times. Longer maintenance intervals. Increased fuel economy. Decreased noise. Diagnostics. Prognostics. Engine protection, and more. All wrapped up in something we call the Quantum system. The QSM11 is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold allows for heat expansion and contraction, eliminating metal stress fractures. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the QSM11 is built stronger to last longer.

Fuel Efficiency

9 series excavators are engineered to be extremely fuel efficient. New innovations like fan clutch, the variable speed remote fan, two-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.



Specifications

Engine

Maker/Model		CumminsQSM11	
Rated flywheel horse power	SAE	J1995 (Gross) J1349 (Net)	353HP (266kW)/ 1,900rpm 342HP (255kW)/ 1,900rpm
Max Torque		170.8kgf.m (1,235lbf.ft)/1,400rpm	
Piston displacement		10,800cc (659 in ³)	

Hydraulic System

Main pump	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 x 370 L/min (97.7 US gpm / 81.4 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing & fuel saving pump system	

Hydraulic motors

Travel	Two speed axis piston motor with brake valve & parking brake
Swing	Axial piston motor with automatic brake

Relief valve settings

Implement Circuit	330 kgf/cm ² (4,690 psi)
Travel	330 kgf/cm ² (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm ² (5,120 psi)
Swing Circuit	285 kgf/cm ² (4,050 psi)
Pilot Circuit	40 kgf/cm ² (570 psi)
Service valve	Installed

Coolant & Lubricant Capacity

REFILLING	LITER
Fuel tank	621
Engine coolant	50
Engine oil	37
Swing device - gear oil	5
Final drive (each) - gear oil	5
Hydraulic system / Hydraulic tank	380 / 262

Drives & Brakes

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	38,500kgf (84,800 lbf)
Max. travel speed (high/low)	5.0km/hr (3.1 mph)/3.2km/hr (2.0 mph)
Gradeability	35 Degree (70%)
Parking brake	Multi wet disc

Undercarriage

X-Leg type centre frame is integrally welded with reinforced box section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing spring and sprockets and trackchain with triple grouse shoes.

Centre frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	53
No. of carrier rollers on each side	2
No. of track rollers on each side	9
No. of rail guards on each side	2

Swing System

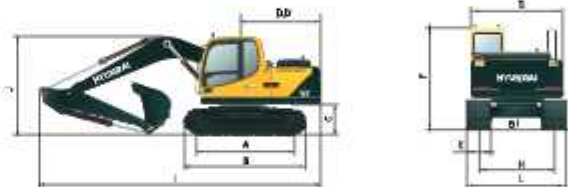
Swing motor	Axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease - bathed
Swing brake	Multi wet disc
Swing speed	9.0 rpm

Operating Weight

Shoe Width mm (in)	Operating weight kg (lb)	Ground pressure kgf/cm ² (psi)
600 mm (24")	49,500 (106,040)	0.83 (11.80)

Dimensions

(mm)

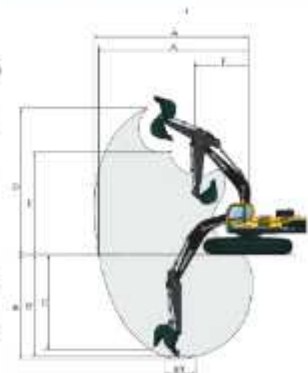


A	Tumbler distance	4,470 (14' 8")
B	Overall length of crawler	5,462 (17' 11")
C	Ground clearance of counter weight	1,295 (4' 3")
D	Tail swing radius	3,750 (12' 4")
D'	Rear-end length	3,695 (12' 1")
E	Overall width of upper structure	2,980 (9' 9")
F	Overall height of cabin	3,190 (10' 6")
G	Min. ground clearance	555 (1' 10")
H	Track gauge	2,740 (9' 0")
	Boom Length	6,550 (21' 6")
	Arm Length	2,550 (8' 4")
I	Overall length	11,630 (38' 2")
J	Overall height of boom	3,750 (12' 4")
K	Track shoe width	600 (24")
L	Overall width	3,340 (10' 11")

Working Ranges (mm)

Boom length	6550(21' 6")	Arm length	2,550 (8' 4")
-------------	--------------	------------	---------------

A	Max. Digging Reach	10,860 (35' 8")
A'	Max. Digging Reach on Ground	10,640 (34' 11")
B	Max. Digging Depth	6,570 (21' 7")
B'	Max. Digging Depth (8' level)	6,400 (21' 0")
C	Max. Vertical Wall Digging Depth	5,610 (18' 5")
D	Max. Digging Height	10,580 (34' 9")
E	Max. Dumping Height	7,070 (23' 2")
F	Min. Swing Radius	4,390 (14' 8")



CONSTRUCTION SOLUTIONS PVT. LTD.
Thapathali, Kathmandu, Nepal | Tel: +977-1-4100543/44/45
Narayan: 9851095936 | Krishna: 9851111096
Rajendra: 9801143168 | Sunil: 9801142975 Fax: +977-1-4100542
Email: sales@cspil.com.np, info@cspil.com.np
Website: www.hyundaice-nepal.com

Service Center:
Khumaltar, Lalitpur
Tel: +977-1-5548970/71
Mob: 9851111094
Spare Parts: 9851111093

PLEASE CONTACT