MOVING YOU FURTHER

Robex 480LC-9S

With Tier 2 Engine installed

*Photo may include optional equipment.

HYUNDAI CONSTRUCTION EQUIPMENT

PLEASE CONTACT

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HYUNDAI
CONSTRUCTION EQUIPMENT

Pride at Work

Hyundai Heavy Industries strives to build state-of-the art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!

*Photo may include optional equipment.

Robex 480LC-9S

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier 2 QSM11-C engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
Low noise / Auto engine warm up 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
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
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.
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 / Satellite technology
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 9S series!

RMS
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

Preference

Operating a 9S series is unique to every operator. Operators can fully customize their work environment and operating preferences to fit their individual needs.

*Photo may include optional equipment.

Wide Cabin with Excellent Visibility

The newly designed cabin was conceived for more space, a wider field of view and operator comfort. Special attention was given to a clear, open and convenient interior with plenty of visibility on the machine surroundings and the job at hand. This well balanced combination of precision aspects put the operator in the perfect position to work safely and securely.

Operator Comfort

In 9S Series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences. Seat and console position can be set together and independent from each other. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system and the radio / USB player.

Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9S Series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo is perfect for listening to music favorites.

Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD screen and toggle switch allows the operator to select his personal machine preferences. Power and work mode selection, self diagnostics, optional rear-view camera, maintenance check lists, and start-up machine security were integrated into the cluster to make the machine more versatile and the operator more productive.

Precision

Innovative hydraulic system technologies make the 9S series excavator fast, smooth and easy to control.

*Photo may include optional equipment.

Computer Aided Power

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.
The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as the electronically controlled engine to provide the optimum level of engine power and hydraulic flow.

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.

Improved Hydraulic System

To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.
Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort.
Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9S series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.

Auto Boom-swing Priority

This smart function automatically and continuously looks the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.

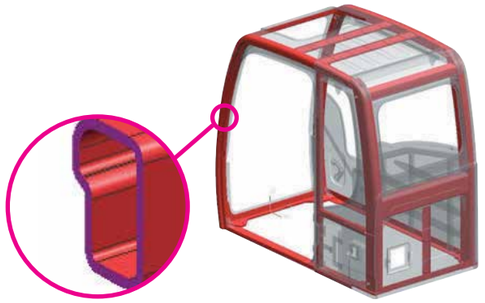
Performance

9S series is designed for maximum performance to keep the operator working productively.

*Photo may include optional equipment.

Track Rail Guard & Adjusters

Durable track rail guards keep track links in place. Track adjustment is made easy with standard grease cylinder track adjusters and shock absorbing springs.



Structure Strength

The 9S series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.

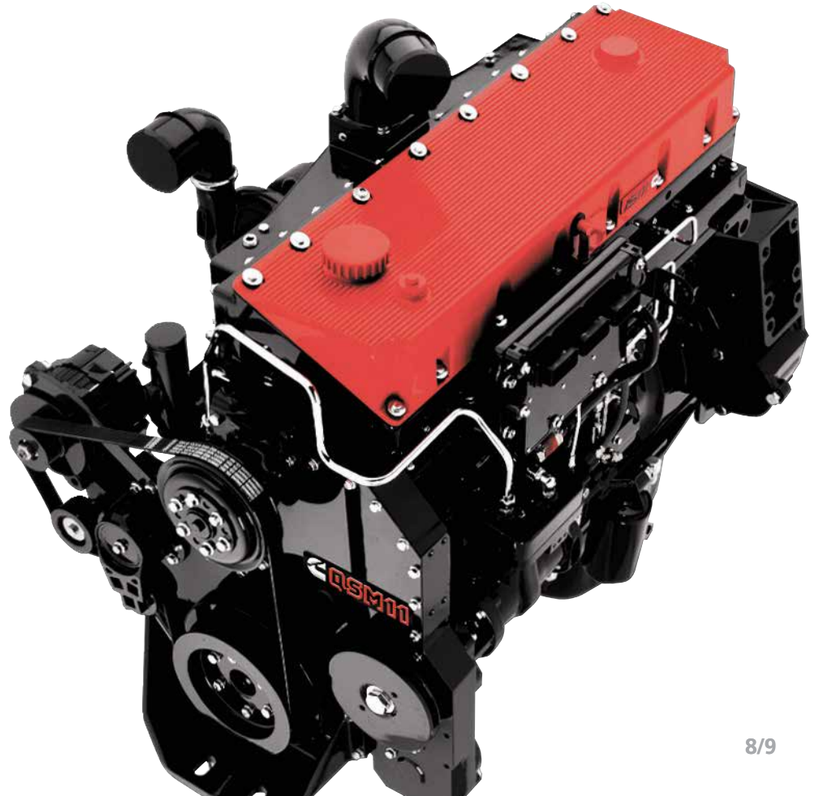
CUMMINS QSM11-C Engine

The six cylinders, turbo-charged, 4 cycle, Charger air cooled engine is built for power, reliability, economy and low emissions.
This engine meets Tier ll emissions regulations.

Setting the standard in lean, efficient power.

The QSM uses advanced electronic controls to meet the toughest emissions standards without compromising anything.
Exceptional fuel efficiency, durability, dependability and the highest power-to-weight ratio in its class are still trademark QSM qualities.
Plus, the QSM now runs quieter and cleaner.

The QSM engine comes with powerful Electronic Control Module (ECM). Using input from sensors located throughout the engine, it governs the timing and metering of fuel to the engine. Fuel is injected into the power cylinder using Cummins dual-pulse technology. This injection method helps reduce noise levels as it increases responsiveness and improves fuel efficiency.



Profitability

9S series is designed to maximize profitability through improved efficiencies, enhanced service features and longer life components.

*Photo may include optional equipment.

Hi-MATE (Remote Management System)

Hi-MATE, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-MATE saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.

Fuel Efficiency

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

Easy Access

Ground-line access to filters, lube fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9S series.

Long-Life Components

9S series excavators were designed with bushings designed for long-life lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), long-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.

Specifications

ENGINE

MODEL			CUMMINS QSM11-C
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission
Rated flywheel horsepower	SAE	J1995 (gross)	353HP (263kW) / 1,900rpm
		J1349 (net)	342HP (255kW) / 1,900rpm
	DIN	6271/1 (gross)	358PS (263kW) / 1,900rpm
		6271/1 (net)	347PS (255kW) / 1,900rpm
Max. torque			182.5kgf.m (1,320 lbf.ft) / 1,300rpm
Bore X stroke			125mm X 147mm (4.92" X 5.79")
Piston displacement			10,800cc (659 in^3)
Batteries			2 X 12V X 200AH
Starting motor			24 V, 7.2 kW
Alternator			24 V, 90 Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 X 380 L /min (100.4 US gpm/83.6 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	330 kgf/cm^2 (4,690 psi)
Travel	360 kgf/cm^2 (5,120 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

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom : 2-170 X1,570 mm (6.7" X 61.8")
	Arm : 1-190 X 1,820 mm (7.5" X 71.7")
	Bucket : 1-160 X 1,370 mm (6.3" X 53.9")
	Bucket : Ø170×1,370 ST * 6,550 mm (21' 6") Boom and 2,400 mm (7' 10") arm only

DRIVES & BRAKES

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

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket(ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

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

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	621	164	136.6
Engine coolant	50.0	13.2	11.0
Engine oil	37.9	10.0	8.3
Swing device - gear oil	5.0 (7)	1.3 (1.8)	1.1 (1.5)
Final drive (each) - gear oil	10.0 (12)	2.6(3.1)	2.2(2.6)
Hydraulic system (including tank)	480	100.4	83.6
Hydraulic tank	262	69.2	57.6

UNDERCARRIAGE

( ):Option

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

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

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,060mm (23' 2") Heavy duty boom, 3,380mm (11' 1") Heavy duty arm, SAE heaped 2.15m^3 (2.81 yd^3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	11,380 kg (25,090 lb)
Counterweight	9,700 kg (21,380 lb)
Boom (with arm cylinder)	4,110 kg (9,060 lb)

OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm	kg (lmb)	kgf/cm^2 (psi)
Triple grouser	600 mm (24")	49,500 (109,130)	0.86 (12.23)
	700 mm (28")	50,020 (110,280)	0.75 (10.67)
	750 mm (30")	50,280 (110,850)	0.70 (9.95)
	800 mm (32")	50,550 (111,440)	0.66 (9.35)
	900 mm (36")	51,060 (112,570)	0.59 (8.39)
Double grouser	600 mm (24")	49,315 (108,720)	0.86 (12.23)
	700 mm (28")	49,835 (109,370)	0.74 (10.52)
Triple grouser	600 mm (24")	49,680 (109,530)	0.86 (12.23)
	700 mm (28")	50,230 (110,740)	0.75 (10.67)

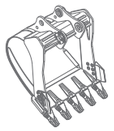
AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)
The system hold 0.85kg refrigerant consisting of a CO_2 equivalent 1.22kg metric tonne. For more information, Please refer to the manual.

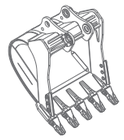
BUCKETS

All buckets are welded with high-strength steel.

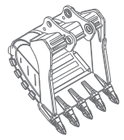
SAE heaped m^3



General purpose
1.38
2.15
3.00



Heavy duty
2.20
2.43
2.79
3.00
3.20



Rock
2.20
2.43
2.79
3.00
3.20

Capacity m^3		Width mm	Weight kg	Tooth EA	Recommendation mm					
SAE heaped	CECE heaped				6,550 Boom	7,060 Boom				9,000 Boom
					2,400 Arm	2,400 Arm	2,900 Arm	3,380 Arm	4,000 Arm	5,850 Arm
Ⓖ 1.38	1.24	1,215	1,690	4	●	●	●	●	●	▣
Ⓖ 2.15	1.88	1,655	2,050	5	●	●	◐	■	■	–
Ⓖ 3.00	2.70	1,985	2,460	6	■	▣	▣	▲	▲	–
Ⓗ 2.20	1.93	1,685	2,320	5	●	◐	■	■	▣	–
Ⓗ 2.43	2.11	1,830	2,450	5	◐	■	■	▣	▣	–
Ⓗ 2.79	2.47	1,865	2,630	5	■	▣	▣	▲	▲	–
Ⓗ 3.00	2.67	1,985	2,790	6	■	▣	▲	▲	–	–
Ⓗ 3.20	2.82	2,075	2,870	6	▣	▲	▲	▲	–	–
Ⓡ 2.20	1.93	1,685	2,610	5	●	◐	■	▣	–	–
Ⓡ 2.43	2.11	1,830	2,730	5	◐	■	▣	▣	–	–
Ⓡ 2.79	2.47	1,865	2,950	5	■	▣	▲	▲	–	–
Ⓡ 3.00	2.67	1,985	3,140	6	▣	▲	▲	–	–	–
Ⓡ 3.20	2.82	2,075	3,230	6	▣	▲	▲	–	–	–

Ⓖ : General purpose
Ⓗ : Heavy duty
Ⓡ : Rock

● : Applicable for materials with density of 2,100 kg /m^3 or less
◐ : Applicable for materials with density of 1,800 kg /m^3 or less
■ : Applicable for materials with density of 1,500 kg /m^3 or less
▣ : Applicable for materials with density of 1,200 kg /m^3 or less
▲ : Applicable for materials with density of 900 kg /m^3 or less
– : Not Recommended

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 6,550mm, 7,060mm, 9,000mm booms and 2,400mm, 2,900mm, 3,380mm, 4,000mm, 5,850mm arms are available.

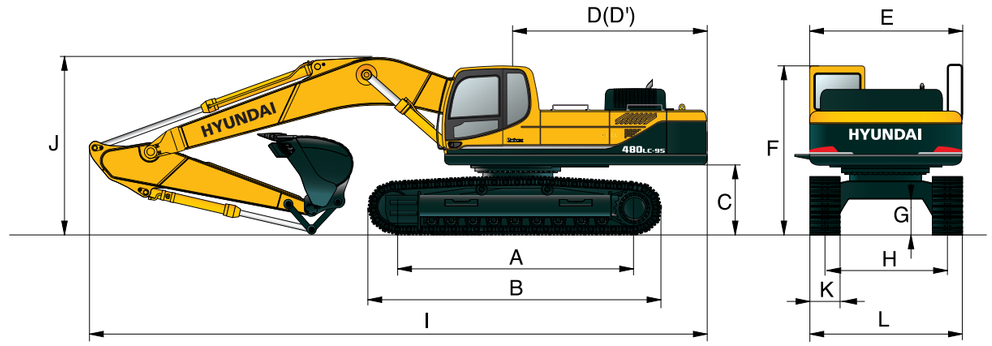
DIGGING FORCE

Boom	Length	mm (ft-in)	6,550 (21' 6")	7,060 (23' 2")			9,000 (29' 6")	Remarks
	Weight	kg (lb)	4,300 (9,480)	4,530 (9,990)			5,120 (11,290)	
Arm	Length	mm (ft-in)	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	5,850 (19' 2")	
	Weight	kg (lb)	2,250 (4,960)	2,620 (5,780)	2,630 (5,800)	2,670 (5,890)	2,960 (6,530)	
Bucket digging force	SAE	kN	244.2 [266.4]	219. 7 [239.7]	220.7 [240.8]	222.6 [242.8]	222.6	[ ]: Power Boost
		kgf	24900 [27160]	22400 [24440]	22500 [24550]	22700 [24760]	22700	
		lbf	54900 [59880]	49380 [53880]	49600 [54120]	50040 [54590]	50040	
	ISO	kN	283.4 [309.2]	254.0 [277.0]	255.0 [278.1]	256.9 [280.3]	256.9	
		kgf	28900 [31530]	25900 [28250]	26000 [28360]	26200 [28580]	26200	
		lbf	63710 [69510]	57100 [62280]	57320 [62520]	57760 [63010]	57760	
Arm crowd force	SAE	kN	276.6 [301.7]	224.6 [245.0]	191.2 [208.6]	170.6 [186.1]	126.5	
		kgf	28200 [30760]	22900 [24980]	19500 [21270]	17400 [18980]	12900	
		lbf	62170 [67810]	50490 [55070]	42990 [46890]	38360 [41840]	28440	
	ISO	kN	290.3 [316.7]	234 .4 [255.7]	199.1 [217.2]	176.5 [192.6]	130.4	
		kgf	29600 [32290]	23900 [26070]	20300 [22150]	18000 [19640]	13300	
		lbf	65260 [71190]	52690 [57470]	44750 [48830]	39680 [43300]	29320	

Note: Boom weight includes arm cylinder, piping, and pin
Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R480LC-9S DIMENSIONS



mm

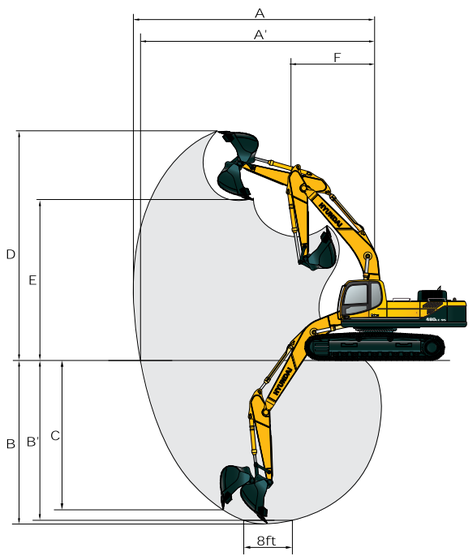
A	Tumbler distance	4,470
B	Overall length of crawler	5,405
C	Ground clearance of counterweight	1,295
D	Tail swing radius	3,780
D'	Rear-end length	3,725
E	Overall width of upperstructure	2,980
F	Overall height of cab	3,190
G	Min. ground clearance	560
H	Track gauge	2,740

mm

	Boom length	7,060				6,550	9,000
	Arm length	2,400	2,900	3,380	4,000	2,400	5,850
I	Overall length	12,270	12,200	12,060	12,040	11,770	13,660
J	Overall height of boom	3,840	3,770	3,730	4,040	4,030	5,200

K	Track shoe width	600	700	750	800	900
L	Overall width	3,340	3,440	3,490	3,540	3,640

R480LC-9S WORKING RANGE



mm

	Boom length	6,550	7,060				9,000
	Arm length	2,400	2,400	2,900	3,380	4,000	5,850
A	Max. digging reach	10,610	11,160	11,550	12,100	12,660	16,350
A'	Max. digging reach on ground	10,370	10,940	11,340	11,900	12,470	16,200
B	Max. digging depth	6,370	6,850	7,350	7,810	8,450	11,560
B'	Max. digging depth (8' level)	6,190	6,670	7,190	7,670	8,320	11,460
C	Max. vertical wall digging depth	5,400	5,960	5,930	6,590	7,170	10,320
D	Max. digging height	10,170	10,560	10,530	10,980	11,210	13,840
E	Max. dumping height	6,760	7,120	7,180	7,620	7,820	10,440
F	Min. swing radius	4,620	5,090	4,910	4,780	4,910	5,940

Lifting Capacity

R480LC-9S

Rating over-front Rating over-side or 360 degree

Boom : 6.55m / Arm : 2.40 m / Bucket : 2.15 m³ SAE heaped / Shoe : 600mm triple grouser

Load point height m (ft)		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
6.0 m	kg					*12480	*12480	*11020	9310	*9470	6570	9.15
(20 ft)	lb					*27510	*27510	*24290	20530	*20880	14480	(30.0)
4.5 m	kg			*18440	*18440	*13960	13040	11650	9010	*9440	5790	9.65
(15 ft)	lb			*40650	*40650	*30780	28750	25680	19860	*20810	12760	(31.7)
3.0 m	kg					*15580	12220	12420	8610	*9470	5410	9.86
(10 ft)	lb					*34350	26940	27380	18980	*20880	11930	(32.3)
1.5 m	kg					*16700	11550	13000	8240	*9510	5340	9.8
(5 ft)	lb					*36820	25460	28660	18170	*20970	11770	(32.2)
Ground	kg			*22790	17330	*16900	11170	13090	8000	*9480	5590	9.47
Line	lb			*50240	38210	*37260	24630	28860	17640	*20900	12320	(31.1)
-1.5 m	kg	*25320	*25320	*20990	17370	*16060	11060	12360	7920	*9240	6280	8.83
(-5 ft)	lb	*55820	*55820	*46270	38290	*35410	24380	27250	17460	*20370	13850	(29.0)
-3.0 m	kg	*21780	*21780	*17910	17670	*13920	11190			*8390	7800	7.79
(-10 ft)	lb	*48020	*48020	*39480	38960	*30690	24670			*18500	17200	(25.6)
-4.5 m	kg			*12770	*12770							
(-15 ft)	lb			*28150	*28150							

Boom : 7.06m HD / Arm : 2.40 m / Bucket : 2.15 m³ SAE heaped / Shoe : 600mm triple grouser & 9700kg CWT

Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m	kg					*11690	*11690	*10030	9280			*8240	5670	9.75
(20 ft)	lb					*25770	*25770	*22110	20460			*18170	12500	(32.0)
4.5 m	kg					*13290	12840	*10790	8880			*8220	5010	10.21
(15 ft)	lb					*29300	28310	*23790	19580			*18120	11050	(33.5)
3.0 m	kg					*14900	11890	*11620	8400	*9700	6130	*8260	4680	10.41
(10 ft)	lb					*32850	26210	*25620	18520	*21380	13510	*18210	10320	(34.2)
1.5 m	kg					*15920	11180	*12240	7990	*9950	5920	*8300	4620	10.36
(5 ft)	lb					*35100	24650	*26980	17610	*21940	13050	*18300	10190	(34.0)
Ground	kg					*16060	10820	*12410	7720	*9860	5780	*8300	4820	10.05
Line	lb					*35410	23850	*27360	17020	*21740	12740	*18300	10630	(33.0)
-1.5 m	kg			*19680	17070	*15330	10740	*11920	7630			*8150	5370	9.46
(-5 ft)	lb			*43390	37630	*33800	23680	*26280	16820			*17970	11840	(31.0)
-3.0 m	kg	*19910	*19910	*17200	*17200	*13640	10880	*10450	7730			*7600	6540	8.51
(-10 ft)	lb	*43890	*43890	*37920	*37920	*30070	23990	*23040	17040			*16760	14420	(27.9)
-4.5 m	kg			*13250	*13250	*10420	*10420					*5900	*5900	7.04
(-15 ft)	lb			*29210	*29210	*22970	*22970					*13010	*13010	(23.1)

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3. The load point is a hook (standard equipment) located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R480LC-9S

Rating over-front Rating over-side or 360 degree

Boom : 7.06m HD/ Arm : 2.90 m / Bucket : 2.15 m³ SAE heaped / Shoe : 600mm triple grouser & 9700kg CWT

Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m	kg							*9280	*9280			*7500	5140	10.17
(20 ft)	lb							*20460	*20460			*16530	11330	(33.4)
4.5 m	kg			*16600	*16600	*12320	*12320	*10090	8860	*8750	6300	*7530	4540	10.62
(15 ft)	lb			*36600	*36600	*27160	*27160	*22240	19530	*19290	13890	*16600	10010	(34.8)
3.0 m	kg			*20140	18310	*14030	11910	*11000	8330	*9200	6030	*7600	4230	10.80
(10 ft)	lb			*44400	40370	*30930	26260	*24250	18360	*20280	13290	*16760	9330	(35.4)
1.5 m	kg			*21820	16930	*15280	11070	*11740	7840	*9560	5770	*7690	4150	10.75
(5 ft)	lb			*48100	37320	*33690	24410	*25880	17280	*21080	12720	*16950	9150	(35.3)
Ground	kg			*21590	16530	*15740	10580	*12080	7510	*9660	5570	*7760	4300	10.46
Line	lb			*47600	36440	*34700	23320	*26630	16560	*21300	12280	*17110	9480	(34.3)
-1.5 m	kg	*20100	*20100	*20330	16540	*15330	10400	*11850	7350			*7730	4760	9.89
(-5 ft)	lb	*44310	*44310	*44820	36460	*33800	22930	*26120	16200			*17040	10490	(32.4)
-3.0 m	kg	*22990	*22990	*18160	16790	*14020	10470	*10810	7390			*7440	5700	9.00
(-10 ft)	lb	*50680	*50680	*40040	37020	*30910	23080	*23830	16290			*16400	12570	(29.5)
-4.5 m	kg	*18130	*18130	*14710	*14710	*11460	10790					*6420	*6420	7.64
(-15 ft)	lb	*39970	*39970	*32430	*32430	*25260	23790					*14150	*14150	(25.1)

Boom : 7.06m HD / Arm : 3.38 m HD / Bucket : 2.15 m³ SAE heaped / Shoe : 600mm triple grouser & 9700kg CWT

Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m	kg							*8740	*8740	*7920	6610	*6970	4600	10.75
(20 ft)	lb							*19270	*19270	*17460	14570	*15370	10140	(35.3)
4.5 m	kg					*11620	*11620	*9610	8970	*8380	6380	*6990	4090	11.17
(15 ft)	lb					*25620	*25620	*21190	19780	*18470	14070	*15410	9020	(36.6)
3.0 m	kg			*19120	18990	*13460	12130	*10600	8420	*8900	6080	7060	3820	11.35
(10 ft)	lb			*42150	41870	*29670	26740	*23370	18560	*19620	13400	15560	8420	(37.2)
1.5 m	kg			*21480	17360	*14930	11240	*11470	7910	*9360	5790	7140	3750	11.30
(5 ft)	lb			*47360	38270	*32910	24780	*25290	17440	*20640	12760	15740	8270	(37.1)
Ground	kg			*21900	16690	*15650	10660	*11970	7530	*9590	5560	7200	3870	11.02
Line	lb			*48280	36800	*34500	23500	*26390	16600	*21140	12260	15870	8530	(36.2)
-1.5 m	kg	*18400	*18400	*21040	16540	*15530	10400	*11930	7320	*9400	5440	*7190	4240	10.49
(-5 ft)	lb	*40570	*40570	*46390	36460	*34240	22930	*26300	16140	*20720	11990	*15850	9350	(34.4)
-3.0 m	kg	*24680	*24680	*19180	16690	*14510	10390	*11170	7290			*6990	4990	9.66
(-10 ft)	lb	*54410	*54410	*42280	36800	*31990	22910	*24630	16070			*15410	11000	(31.7)
-4.5 m	kg	*20970	*20970	*16110	*16110	*12370	10620	*9230	7490			*6300	6300	8.43
(-15 ft)	lb	*46230	*46230	*35520	*35520	*27270	23410	*20350	16510			*13890	13890	(27.7)
-6.0 m	kg			*11100	*11100	*8190	*8190							
(-20 ft)	lb			*24470	*24470	*18060	*18060							

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3. The load point is a hook (standard equipment) located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R480LC-9S

Rating over-front Rating over-side or 360 degree

Boom : 7.06m HD / Arm : 4.00 m / Bucket : 2.15 m³ SAE heaped / Shoe : 600mm triple grouser & 9700kg CWT

Load point height m (ft)		Load radius												At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		10.5 m (35 ft)		Capacity		Reach
																m (ft)
6.0 m	kg									*7390	6800			*6390	4140	11.35
(20 ft)	lb									*16290	14990			*14090	9130	(37.2)
4.5 m	kg							*8950	*8950	*7880	6530	*4750	4690	*6440	3710	11.75
(15 ft)	lb							*19730	*19730	*17370	14400	*10470	10340	*14200	8180	(38.5)
3.0 m	kg			*17540	*17540	*12600	12520	*10040	8630	*8490	6200	*6450	4530	*6520	3470	11.91
(10 ft)	lb			*38670	*38670	*27780	27600	*22130	19030	*18720	13670	*14220	9990	*14370	7650	(39.1)
1.5 m	kg			*20590	17990	*14330	11530	*11050	8060	*9060	5870	*7360	4350	*6620	3390	11.87
(5 ft)	lb			*45390	39660	*31590	25420	*24360	17770	*19970	12940	*16230	9590	*14950	7470	(38.9)
Ground	kg	*13410	*13410	*21860	16960	*15400	10830	*11750	7620	*9450	5600	*6930	4200	*6720	3480	11.60
Line	lb	*29560	*29560	*48190	37390	*33950	23880	*25900	16800	*20830	12350	*15280	9260	*14820	7670	(38.1)
-1.5 m	kg	*17570	*17570	*21640	16580	*15650	10450	*11970	7340	*9500	5420			*6770	3770	11.11
(-5 ft)	lb	*38740	*38740	*47710	36550	*34500	23040	*26390	16180	*20940	11950			*14930	8310	(36.5)
-3.0 m	kg	*22470	*22470	*20290	16570	*15040	10340	*11550	7230	*8970	5370			*6710	4360	10.34
(-10 ft)	lb	*49540	*49540	*44730	36530	*33160	22800	*25460	15940	*19780	11840			*14790	9610	(33.9)
-4.5 m	kg	*24450	*24450	*17790	16580	*13420	10450	*10210	7320					*6340	5480	9.21
(-15 ft)	lb	*53900	*53900	*39220	37150	*29590	23040	*22510	16140					*13980	12080	(30.2)
-6.0 m	kg	*18020	*18020	*13660	*13660	*10290	*10290							*5100	*5100	7.55
(-20 ft)	lb	*39730	*39730	*30120	*30120	*22690	*22690							*11240	*11240	(24.8)

Boom : 9.0m / Arm : 5.85 m / Bucket : 1.38 m³ SAE heaped / Shoe : 600mm triple grouser & 9700kg CWT

Load point height m (ft)		Load radius												At max. reach		
		3.0 m (10 ft)		5.0 m (15 ft)		7.0 m (25 ft)		9.0 m (30 ft)		11.0 m (35 ft)		13.0 m (45 ft)		Capacity		Reach
																m (ft)
10.0 m	kg													*4310	3590	13.54
(35 ft)	lb													*9500	7910	(44.4)
8.0 m	kg											*2660	*2660	*4240	2910	14.55
(25 ft)	lb											*5860	*5860	*9350	6420	(44.7)
6.0 m	kg									*5190	*5190	*4250	3640	*4230	2490	15.20
(20 ft)	lb									*11440	*11440	*9370	8020	*9330	5490	(49.9)
4.0 m	kg							*6800	*6800	*5710	4950	*4990	3450	*4270	2240	15.55
(15 ft)	lb							*14990	*14990	*12590	10910	*11000	7610	*9410	4940	(51.0)
2.0 m	kg			*16010	16000	*10420	9730	*7780	6520	*6260	4560	*5280	3230	*4320	2110	15.61
(5 ft)	lb			*35300	35270	*22970	21450	*17150	14370	*13800	10050	*11640	7120	*9520	4650	(51.2)
Ground	kg			*16790	14290	*11730	8750	*8570	5940	*6720	4210	*5510	3020	*4390	2110	15.38
Line	lb			*37020	31500	*25860	19290	*18890	13100	*14820	9280	*12150	6660	*9680	4650	(50.5)
-2.0 m	kg	*10920	*10920	*17330	13650	*12300	8170	*9000	5540	*6970	3950	*5550	2880	*4450	2250	14.87
(-5 ft)	lb	*24070	*24070	*38210	30090	*27120	18010	*19840	12210	*15370	8710	*12240	6350	*9810	4960	(48.8)
-4.0 m	kg	*14070	*14070	*17370	13550	*12100	7950	*8940	5340	*6850	3820	*4730	2830	*4450	2560	14.02
(-15 ft)	lb	*31020	*31020	*38290	29870	*26680	17530	*19710	11770	*15100	8420	*10430	6240	*9810	5640	(46.0)
-6.0 m	kg	*17730	*17730	*15490	13780	*11110	7980	*8260	5340	*6160	3850			*4320	3160	12.76
(-20 ft)	lb	*39090	*39090	*34150	30380	*24490	17590	*18210	11770	*13580	8490			*9520	6970	(41.9)
-8.0 m	kg	*17880	*17880	*12400	*12400	*9090	8270	*6620	5560					*3820	*3820	10.94
(-25 ft)	lb	*39420	*39420	*27340	*27340	*20040	18230	*14590	12260					*8420	*8420	(35.9)
-10.0 m	kg					*5220	*5220									
(-35 ft)	lb					*11510	*11510									

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STANDARD EQUIPMENT

ISO Standard cabin
- All-weather steel cab with 360° visibility
- Safety glass windows
- Rise-up type windshield wiper
- Sliding fold-in front window
- Sliding side window(LH)
- Lockable door
- Hot & cool box
- Storage compartment & Ashtray
- Radio & USB player
- Cabin roof-steel cover
- 12 volt power outlet (24V DC to 12V DC converter)

Computer aided power optimization (New CAPO) system
- 3-power mode, 2-work mode, User mode
- Auto deceleration & one-touch deceleration system
- Auto warm-up system
- Auto overheat prevention system

Automatic climate control
- Air conditioner & heater
- Defroster

Self-diagnostics system

Starting Aid (air grid heater) for cold weather

Centralized monitoring
- LCD display
- Engine speed or Trip meter/Accel.
- Clock
- Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
- Warnings
- Check engine
- Overload
- Communication error
- Low battery
- Air cleaner clogging
- Indicators
- Max power
- Low speed/High speed
- Fuel warmer
- Auto idle

Door and cab locks, one key

Two outside rearview mirrors

Fully adjustable suspension seat with seat belt

Pilot-operated slidable joystick

Six front working lights (4 boom mounted, 2 front frame mounted)

Electric horn

Batteries (2 x 12V x 200 AH)

Battery master switch

Removable clean-out dust net for cooler

Automatic swing brake

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Track shoes (600mm, 24")

Track rail guard

Accumulator for lowering work equipment

Electric transducer

Lower frame under cover (Normal)

OPTIONAL EQUIPMENT

Fuel filler pump (35 L/min)

Beacon lamp

Safety lock valve for boom cylinder with overload warning device

Safety lock valve for arm cylinder

Single-acting piping kit (breaker, etc.)

Double-acting piping kit (clamshell, etc.)

Quick coupler

Travel alarm

Booms
- Heavy duty boom (7.06m, 23'2")
- Short boom (6.55m, 21'6")
- Long boom (9.0m, 29'6")

Arms
- Heavy duty arm (3.38m, 11'1")
- Super short arm (2.4m, 7'10")
- Short arm (2.9m, 9'6")
- Long arm (5.85m, 19'2")

Climate control
- Air conditioner only
- Heater only

Cabin FOPS/FOG (ISO/DIS 10262) Level 2
- FOPS (Falling Object Protective Structure)
- FOG (Falling Object Guard)

Cabin guard-Front
- Wire net
- Fine net

Cabin lights

Cabin front window rain guard

Sun visor

Track shoes
- Triple grousers shoe (700mm, 28")
- Triple grousers shoe (750mm, 30")
- Triple grousers shoe (800mm, 32")
- Triple grousers shoe (900mm, 36")
- Triple grousers shoe (Heavy duty 600 /
- Double grousers shoe (600mm, 24")
- Double grousers shoe (700mm, 28")
- Full track rail guard (3-piece type track rail guard)

Lower frame under cover (Additional)

Pre-heating system, coolant

Tool kit

Operator suit

Rearview camera

Seat
- Mechanical suspension seat with heater

Hi-mate (Remote Management System)

Air compressor

Rear work lamp

Oil washed air cleaner

Pre cleaner

Cat Walk

Full Track Guard

* 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.