

MOVING YOU FURTHER

# Robex 480LC-95

With Tier 2 Engine installed



\*Photo may include optional equipment.

PLEASE CONTACT

## HYUNDAI CONSTRUCTION EQUIPMENT

Head Office (Sales office)  
First tower, 55, Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea

# 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-95

### 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.

## 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.



## 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.



# 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

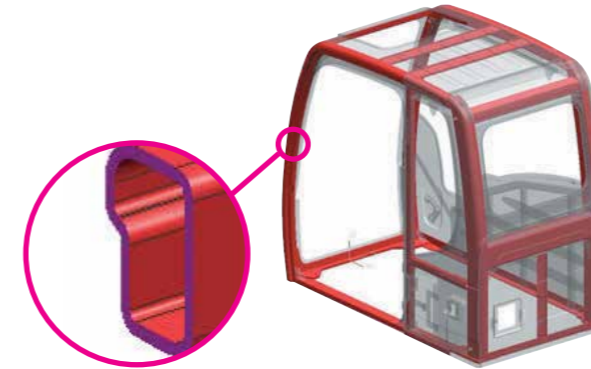
9S series is designed for maximum performance to keep the operator working productively.



\*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.

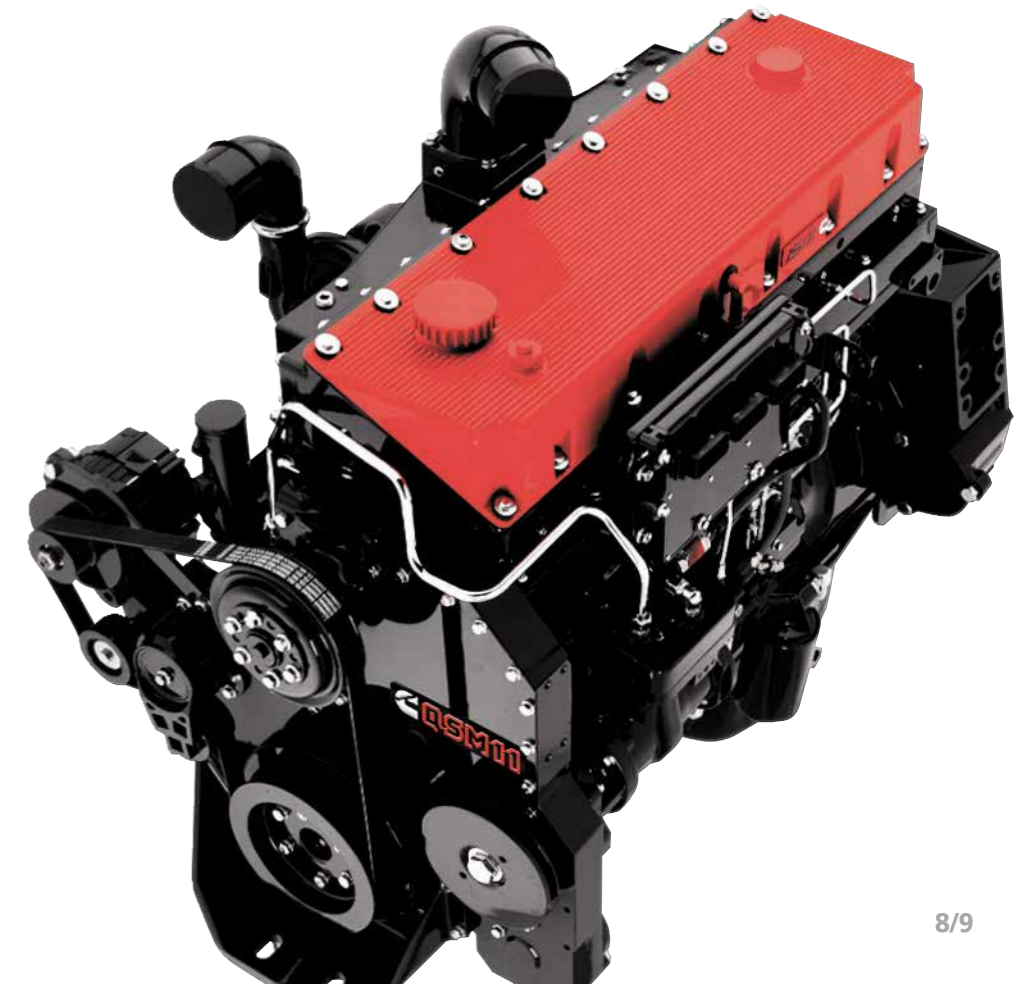
## CUMMINS QSM11-C Engine

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

## 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.



## 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.



## 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 <sup>3</sup> )	
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 <sup>2</sup> (4,690 psi)
Travel	360 kgf/cm <sup>2</sup> (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (4,050 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (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 : Ø170x1,370 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

	liter	US gal	UK gal
Re-filling			
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

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. ( )Option

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<sup>3</sup> (2.81 yd<sup>3</sup>) 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)	2,630 kg (5,800 lb)

OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm	kg (lb)	kgf/cm <sup>2</sup> (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)
Double grouser	900 mm (36")	51,060 (112,570)	0.59 (8.39)
	600 mm (24")	49,315 (108,720)	0.86 (12.23)
Triple grouser	700 mm (28")	49,835 (109,370)	0.74 (10.52)
	600 mm (24")	49,680 (109,530)	0.86 (12.23)
	700 mm (28")	50,230 (110,740)	0.75 (10.67)

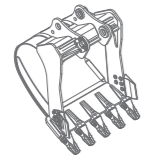
## AIR CONDITIONING SYSTEM

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<sub>2</sub> equivalent 1.22kg metric tonne. For more information, Please refer to the manual.

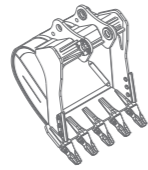
## BUCKETS

All buckets are welded with high-strength steel.

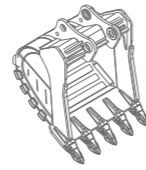
SAE heaped  
m<sup>3</sup>



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 <sup>3</sup>		Width mm	Weight kg	Tooth EA	Recommendation mm					
SAE heaped	CECE heaped				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<sup>3</sup> or less  
● : Applicable for materials with density of 1,800 kg/m<sup>3</sup> or less  
■ : Applicable for materials with density of 1,500 kg/m<sup>3</sup> or less  
■ : Applicable for materials with density of 1,200 kg/m<sup>3</sup> or less  
▲ : Applicable for materials with density of 900 kg/m<sup>3</sup> 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.

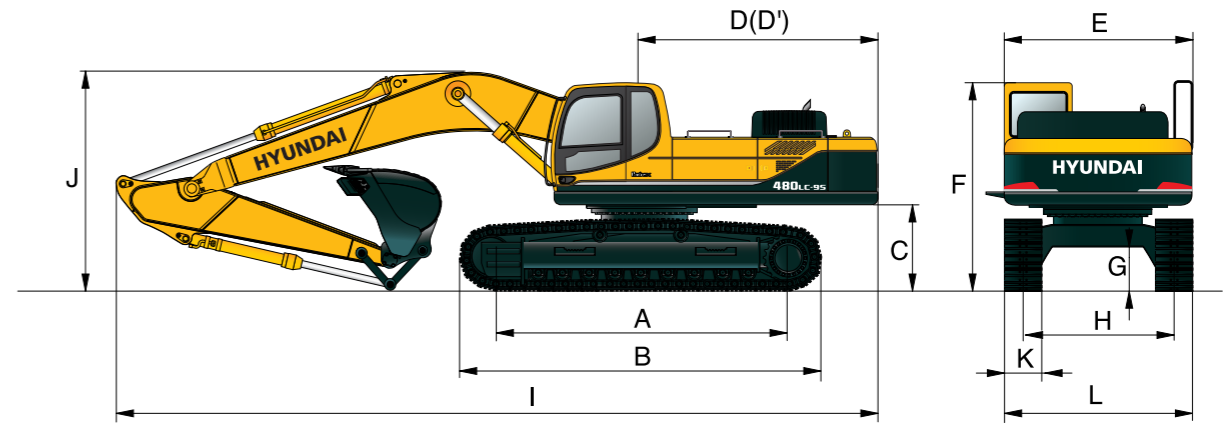
## DIGGING FORCE

Boom	Length	mm (ft-in)	6,550 (21' 6")		7,060 (23' 2")		9,000 (29' 6")		Remarks	
			Weight	kg (lb)	Weight	kg (lb)	Weight	kg (lb)		
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)			
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			
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

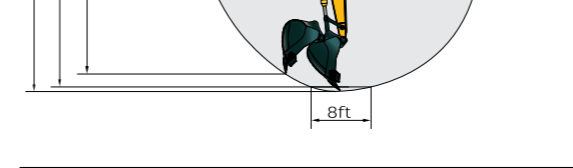
### R480LC-9S DIMENSIONS



Dimension	Value (mm)	Dimension	Value (mm)
A Tumbler distance	4,470	Boom length	7,060
B Overall length of crawler	5,405	Arm length	2,400, 2,900, 3,380, 4,000, 2,400, 5,850
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
E Overall width of upperstructure	2,980	F Overall height of cab	3,190
F Overall height of cab	3,190	G Min. ground clearance	560
G Min. ground clearance	560	H Track gauge	2,740
H Track gauge	2,740	I Overall length	12,270, 12,200, 12,060, 12,040, 11,770, 13,660
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
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
K Track shoe width	600, 700, 750, 800, 900	L Overall width	3,340, 3,440, 3,490, 3,540, 3,640
L Overall width	3,340, 3,440, 3,490, 3,540, 3,640		

### R480LC-9S WORKING RANGE

Dimension	6,550	7,060				9,000
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 m<sup>3</sup> 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	
6.0 m (20 ft)	kg										
	lb										
4.5 m (15 ft)	kg										
	lb										
3.0 m (10 ft)	kg										
	lb										
1.5 m (5 ft)	kg										
	lb										
Ground Line	kg										
	lb										
-1.5 m (-5 ft)	kg										
	lb										
-3.0 m (-10 ft)	kg										
	lb										
-4.5 m (-15 ft)	kg										
	lb										

Boom : 7.06m HD / Arm : 2.40 m / Bucket : 2.15 m<sup>3</sup> 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
6.0 m (20 ft)	kg											
	lb											
4.5 m (15 ft)	kg											
	lb											
3.0 m (10 ft)	kg											
	lb											
1.5 m (5 ft)	kg											
	lb											
Ground Line	kg											
	lb											
-1.5 m (-5 ft)	kg											
	lb											
-3.0 m (-10 ft)	kg											
	lb											
-4.5 m (-15 ft)	kg											
	lb											

1. Lifting capacity are based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

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 m<sup>3</sup> 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
6.0 m (20 ft)	kg											
	lb											
4.5 m (15 ft)	kg											
	lb											
3.0 m (10 ft)	kg											
	lb											
1.5 m (5 ft)	kg											
	lb											
Ground Line	kg											
	lb											
-1.5 m (-5 ft)	kg											
	lb											
-3.0 m (-10 ft)	kg											
	lb											
-4.5 m (-15 ft)	kg											
	lb											

Boom : 7.06m HD / Arm : 3.38 m HD / Bucket : 2.15 m<sup>3</sup> 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
6.0 m (20 ft)	kg											
	lb											
4.5 m (15 ft)	kg											
	lb											
3.0 m (10 ft)	kg											
	lb											
1.5 m (5 ft)	kg											
	lb											
Ground Line	kg											
	lb											
-1.5 m (-5 ft)	kg											
	lb											
-3.0 m (-10 ft)	kg											
	lb											
-4.5 m (-15 ft)	kg											
	lb											
-6.0 m (-20 ft)	kg											
	lb											

1. Lifting capacity are based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

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 m<sup>3</sup> 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	
														kg	lb	m (ft)
6.0 m (20 ft)	kg															
	lb															
4.5 m (15 ft)	kg						*8950	*8950	*7880	6530	*4750	4690	*6440	3710	11.75	
	lb						*19730	*19730	*17370	14400	*10470	10340	*14200	8180	(38.5)	
3.0 m (10 ft)	kg			*17540	*17540	*12600	12520	*10040	8630	*8490	6200	*6450	4530	*6520	3470	11.91
	lb			*38670	*38670	*27780	27600	*22130	19030	*18720	13670	*14220	9990	*14370	7650	(39.1)
1.5 m (5 ft)	kg			*20590	17990	*14330	11530	*11050	8060	*9060	5870	*7360	4350	*6620	3390	11.87
	lb			*45390	39660	*31590	25420	*24360	17770	*19970	12940	*16230	9590	*14950	7470	(38.9)
Ground Line	kg	*13410	*13410	*21860	16960	*15400	10830	*11750	7620	*9450	5600	*6930	4200	*6720	3480	11.60
	lb	*29560	*29560	*48190	37390	*33950	23880	*25900	16800	*20830	12350	*15280	9260	*14820	7670	(38.1)
-1.5 m (-5 ft)	kg	*17570	*17570	*21640	16580	*15650	10450	*11970	7340	*9500	5420			*6770	3770	11.11
	lb	*38740	*38740	*47710	36550	*34500	23040	*26390	16180	*20940	11950			*14930	8310	(36.5)
-3.0 m (-10 ft)	kg	*22470	*22470	*20290	16570	*15040	10340	*11550	7230	*8970	5370			*6710	4360	10.34
	lb	*49540	*49540	*44730	36530	*33160	22800	*25460	15940	*19780	11840			*14790	9610	(33.9)
-4.5 m (-15 ft)	kg	*24450	*24450	*17790	16580	*13420	10450	*10210	7320					*6340	5480	9.21
	lb	*53900	*53900	*39220	37150	*29590	23040	*22510	16140					*13980	12080	(30.2)
-6.0 m (-20 ft)	kg	*18020	*18020	*13660	*13660	*10290	*10290							*5100	*5100	7.55
	lb	*39730	*39730	*30120	*30120	*22690	*22690							*11240	*11240	(24.8)

Boom : 9.0m / Arm : 5.85 m / Bucket : 1.38 m<sup>3</sup> 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	
														kg	lb	m (ft)
10.0 m (35 ft)	kg															
	lb															
8.0 m (25 ft)	kg															
	lb															
6.0 m (20 ft)	kg															
	lb															
4.0 m (15 ft)	kg															
	lb															
2.0 m (5 ft)	kg			*16010	16000	*10420	9730	*7780	6520	*6260	4560	*5280	3230	*4320	2110	15.61
	lb			*35300	35270	*22970	21450	*17150	14370	*13800	10050	*11640	7120	*9520	4650	(51.2)
Ground Line	kg			*16790	14290	*11730	8750	*8570	5940	*6720	4210	*5510	3020	*4390	2110	15.38
	lb			*37020	31500	*25860	19290	*18890	13100	*14820	9280	*12150	6660	*9680	4650	(50.5)
-2.0 m (-5 ft)	kg	*10920	*10920	*17330	13650	*12300	8170	*9000	5540	*6970	3950	*5550	2880	*4450	2250	14.87
	lb	*24070	*24070	*38210	30090	*27120	18010	*19840	12210	*15370	8710	*12240	6350	*9810	4960	(48.8)
-4.0 m (-15 ft)	kg	*14070	*14070	*17370	13550	*12100	7950	*8940	5340	*6850	3820	*4730	2830	*4450	2560	14.02
	lb	*31020	*31020	*38290	29870	*26680	17530	*19710	11770	*15100	8420	*10430	6240	*9810	5640	(46.0)
-6.0 m (-20 ft)	kg	*17730	*17730	*15490	13780	*11110	7980	*8260	5340	*6160	3850			*4320	3160	12.76
	lb	*39090	*39090	*34150	30380	*24490	17590	*18210	11770	*13580	8490			*9520	6970	(41.9)
-8.0 m (-25 ft)	kg	*17880	*17880	*12400	*12400	*9090	8270	*6620	5560					*3820	*3820	10.94
	lb	*39420	*39420	*27340	*27340	*20040	18230	*14590	12260					*8420	*8420	(35.9)
-10.0 m (-35 ft)	kg					*5220	*5220									
	lb					*11510	*11510									

1. Lifting capacity are based on SAE J1097, ISO 10567.

2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.

3. The load point is a hook (standard equipment) located on the back of the bucket.

4. (\*) indicates the load limited by hydraulic capacity.

## 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.