



Robex

480LC-9A

With Tier 4 Interim Engine installed

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



*Photo may include optional equipment.

 **HYUNDAI**
CONSTRUCTION EQUIPMENT AMERICAS, INC.





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!





Robex 480LC-9A

Machine Walk-Around



*Photo may include optional equipment.

Engine Technology

Proven, reliable, fuel efficient, low emission and low noise
Cummins Tier 4 interim & EU stage III B engine

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 3 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 pushing a button
Integrated seat with consoles - reduces the operator fatigue

Advanced 7" Color Cluster with Touch Screen

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 is 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
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

Innovative hydraulic system technologies make the 9A 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 9A 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

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

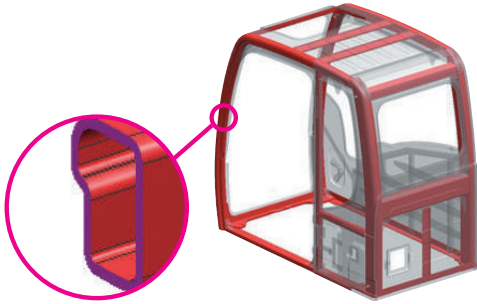
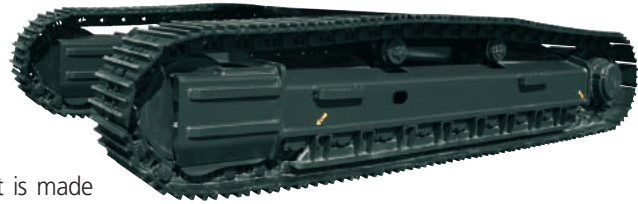


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Track Rail Guard & Adjusters

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



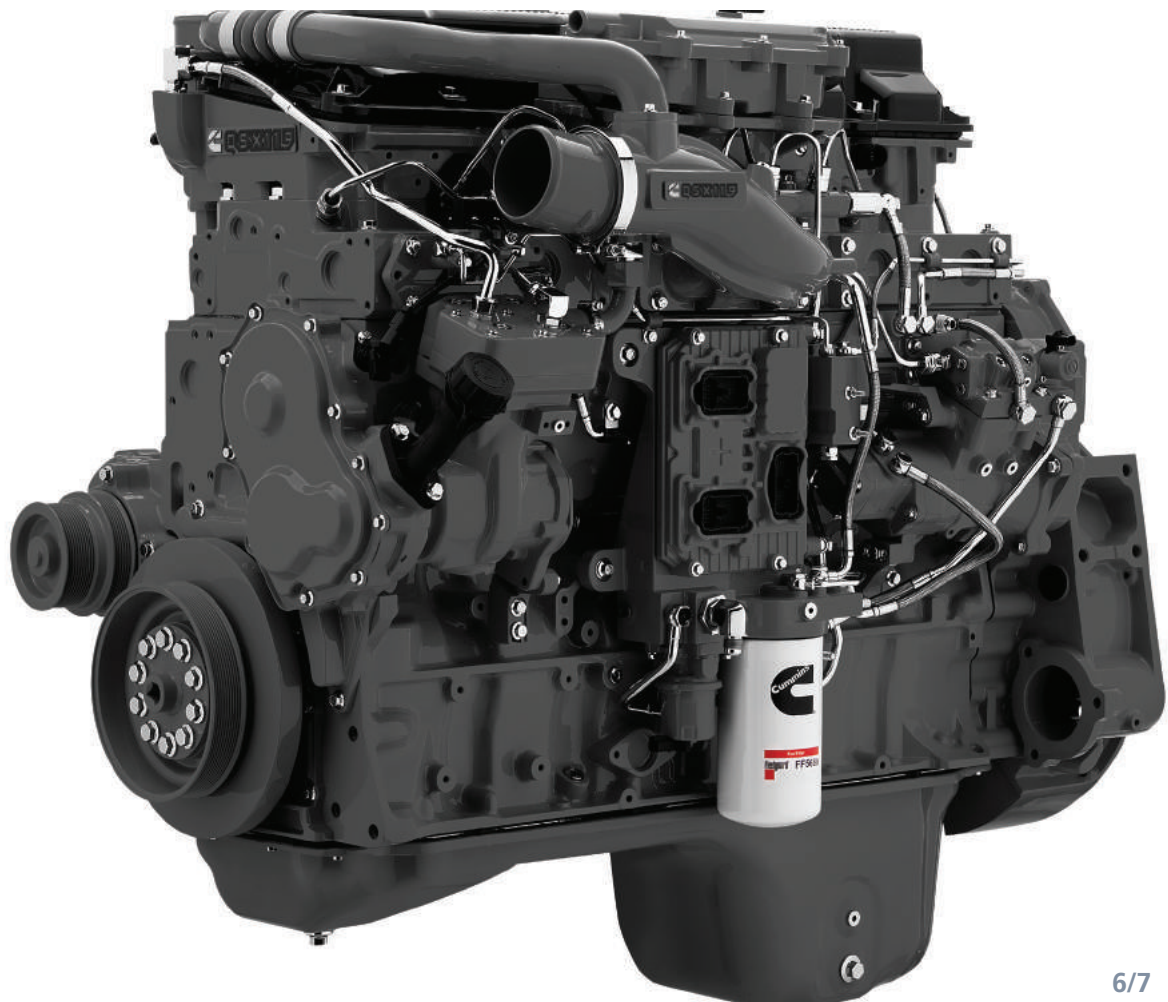
Structure Strength

The 9 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.

The optional ROPS (Roll Over Protective Structure) cab can be equipped to enhance operator safety.

Cummins QSX11.9 Engine

The key to success is building upon your strengths. The proof is Cummins Tier 4 Interim/Stage IIIB QSX11.9. We've taken everything we've learned with the Cummins QSM engine and combined it with the advanced technology platform of the QSX15. The result is a compact engine with 290-500 hp (216-373 kW) and up to 1600 lb-ft (2169 N·m) of peak torque. The QSX11.9 has one of the highest power-to-weight ratios in its class, and its remarkable torque rise (up to 50%) enables the engine to more quickly take full advantage of the torque power – just as rpm speed falls due to tougher working conditions. Reliability, durability and productivity are similar to the QSX15, because the QSX11.9 shares virtually every major component and subsystem. This includes the XPI fuel injection system, Direct Flow air filter, the Cummins CM2250 Electronic Control Module (ECM), proprietary Cummins VGT (Variable Geometry Turbocharger) and the Cummins Particulate Filter. The addition of the Cummins Particulate Filter reduces particulate matter emissions by over 90%, while the cooled-EGR subsystem reduces NOx emissions by 45%.



PREFERENCE

Operating a 9A 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 has 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 comfort and visibility puts the operator in the perfect position to work safely and securely.

Operator Comfort

In 9A series cabin you can easily adjust the seat, console and armrest settings to best suit your comfort level. The seat is integrated with console and absorbs console vibration with the seat suspension to reduce operator's fatigue. New joystick consoles are adjustable in height by pushing a button. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system, transparent polycarbonate glass sun roof, large and easy to control sun visor, and the radio / USB player.



Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9A 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 and MP3 capabilities, plus remotely located controls is perfect for listening to your favorite music.

Operators can even talk on the phone with the hands-free cell phone feature. The newly designed optional remote control offers mobile hands-free bluetooth and hands-free radio cable functions.



Smart Key System (Option)

9A series excavators provide smart key system as an option. This allows the operator to start the engine by the push of a starter button without inserting a key in the ignition.



Operator - Friendly Cluster

The advanced new cluster with 7-inch wide color LCD touch screen with 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, start-up machine security, and video functions were integrated into the cluster to make the machine more versatile and the operator more productive.

The newly applied FM transmitter application transmits signal to USB & radio player with the same frequency as cluster. The player outputs the audio through the internal speaker in the cab. An adjustable cluster hinge bracket improves cluster visibility, and video & firmware updates are easy with the USB host support.

Monitor Tilt Range



Horizontal
Total : 15°



Vertical
Total : 30°

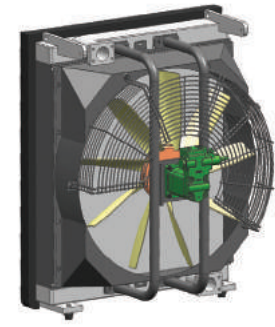


PROFITABILITY

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



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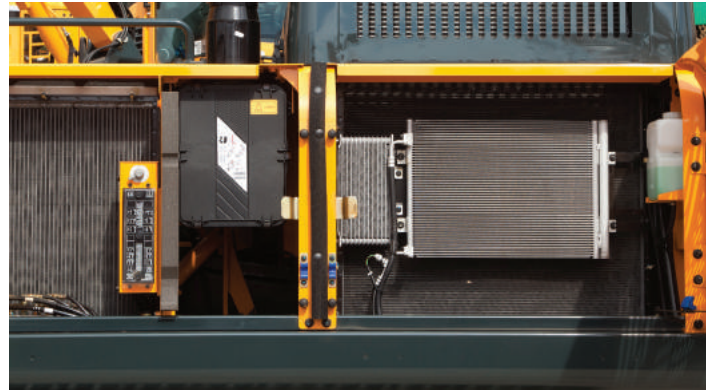
Fuel Efficiency

9A series excavators are engineered to be extremely fuel efficient. New innovations like 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.



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 9A series.



Long-Life Components

9A 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 QSX11.9	
Type		Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission	
Rated flywheel horsepower	SAE	J1995 (gross)	372HP (277kW)/ 1,800rpm
		J1349 (net)	352HP (263kW)/ 1,800rpm
	DIN	6271/1 (gross)	377PS (277kW)/ 1,800rpm
		6271/1 (net)	357PS (263kW)/ 1,800rpm
Max. torque		186.7kgf·m (1,350lb·ft)/1,400rpm	
Bore X stroke		130mm X 150mm (5.12" X 5.91")	
Piston displacement		11,900cc (726 in ³)	
Batteries		2 X 12V X 160AH	
Starting motor		24V, 7.2kW	
Alternator		24V, 70Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 X 360 L /min (97.7 US gpm / 81.4 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	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

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-170 X 1,570 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")

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)	4.8 km/hr (3.0 mph) / 3.1 km/hr (1.9 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	8.2 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	621.0	164.0	136.6
Engine coolant	68.0	18.0	15.0
Engine oil	41.6	11.0	9.15
Swing device - gear oil	5.0	1.3	1.1
Final drive (each) - gear oil	5.0	1.3	1.1
Hydraulic system (including tank)	480.0	100.4	83.6
Hydraulic tank	262.0	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.

	X-leg type
Center frame	
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

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.15m³ (2.81 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	10,940kg (24,120lb)
Boom (with arm cylinder)	4,110kg (9,060lb)

OPERATING WEIGHT			
Shoes	Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	600 mm (24")	48,100 (106,040)	0.83 (11.80)
	700 mm (28")	48,640 (107,230)	0.72 (10.24)
	750 mm (30")	48,910 (107,830)	0.68 (9.67)
	800 mm (32")	49,180 (108,420)	0.64 (9.10)
	900 mm (36")	49,720 (109,610)	0.57 (8.11)
Double grouser	600 mm (24")	48,100 (106,040)	0.83 (11.80)
	700 mm (28")	48,640 (107,230)	0.72 (10.24)
Triple grouser (Heavy Duty)	600 mm (24")	48,308 (106,500)	0.84 (11.94)
	700 mm (28")	48,870 (107,740)	0.73 (10.38)



BUCKETS

All buckets are welded with high-strength steel.



SAE heaped m³ (yd³) 1.00 (1.31) 1.38 (1.80) 1.84 (2.41) 2.15 (2.81) ◆ 2.79 (3.65) 3.03 (3.96) ● 2.20 (2.88) 2.43 (3.18) 2.70 (3.53) General Duty Heavy Duty Tiger

Capacity m ³ (yd ³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft-in)					
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		7,060(23' 2") Boom				6,550(21' 6") Boom	9,000(29' 6") Boom
					2,400 (7' 10") Arm	2,900 (9' 6") Arm	3,380(11' 1") Arm	4,000(13' 1") Arm	2,400 (7' 10") Arm	5,850(19' 2") Arm
1.00 (1.31)	0.9 (1.17)	915 (36.0)	1,065 (41.9)	1,220 (2,690)	●	●	●	●	●	●
1.38 (1.80)	1.25 (1.63)	1,100 (43.3)	1,250 (49.2)	1,420 (3,130)	●	●	●	●	●	□
1.84 (2.41)	1.65 (2.16)	1,140 (44.9)	1,290 (50.8)	1,520 (3,350)	●	●	●	□	●	-
2.15 (2.81)	1.92 (2.51)	1,415 (55.7)	1,565 (61.6)	1,740 (3,840)	●	●	□	▲	●	-
◆ 2.79 (3.65)	2.47 (3.23)	1,760 (69.3)	1,910 (75.2)	1,960 (4,320)	□	□	▲	-	●	-
◆ 3.03 (3.96)	2.67 (3.49)	1,890 (74.4)	2,040 (80.3)	2,090 (4,610)	▲	▲	-	-	□	-
● 2.20 (2.88)	1.80 (2.35)	1,840 (72.4)	-	2,295 (5,060)	●	●	□	-	●	-
● 2.43 (3.18)	2.10 (2.75)	1,885 (74.2)	-	2,335 (5,150)	▲	-	-	-	□	-
● 2.70 (3.53)	2.5 (3.27)	1,790 (70.4)	-	2,715 (5,990)	▲	-	-	-	□	-

◆ Heavy Duty Bucket

● Rock-Heavy Duty Bucket

●: Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less

□: Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less

▲: Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 6,550mm(21' 6"), 7,060mm(23' 2"), 9,000mm(29' 6") booms and 2,400mm(7' 10"), 2,900mm(9' 6"), 3,380mm(11' 1"), 4,000mm(13' 1"), 5,850mm(19' 2") arms are available.

DIGGING FORCE

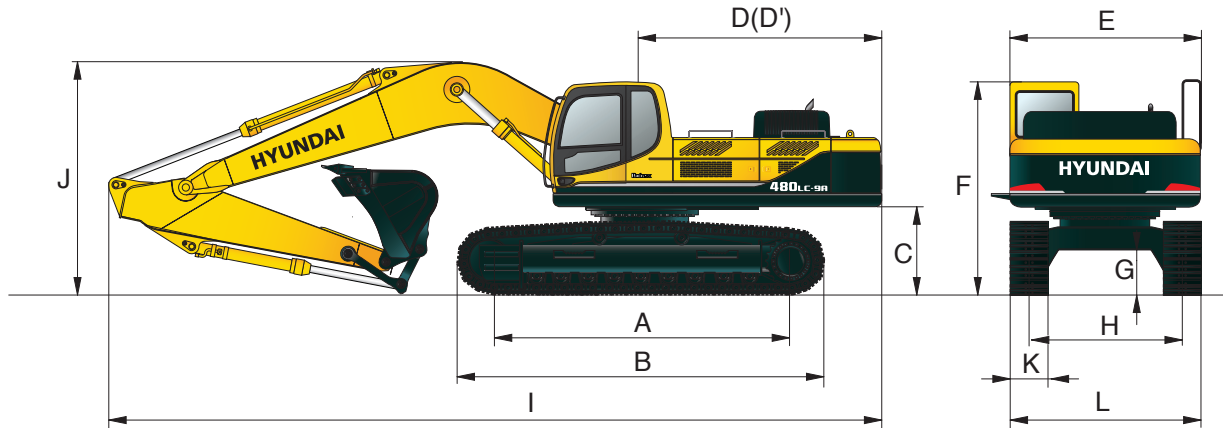
Boom	Length	mm (ft-in)	7,060(23' 2")				Remarks
	Weight	kg (lb)	3,260 (7,180)				
Arm	Length	mm (ft-in)	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	[]: Power Boost
	Weight	kg (lb)	2,070 (4,560)	2,230 (4,920)	2,100 (4,630)	2,370 (5,220)	
Bucket digging force	SAE	kN	216.7 [236.4]	219.7 [239.6]	220.7 [240.7]	222.6 [242.9]	
		kgf	22,100 [24,110]	22,400 [24,440]	22,500 [24,550]	22,700 [24,760]	
		lbf	48,720 [53,150]	49,380 [53,870]	49,600 [54,110]	50,040 [54,590]	
	ISO	kN	251.1 [273.9]	254.0 [277.1]	255.0 [278.2]	256.9 [280.3]	
		kgf	25,600 [27,930]	25,900 [28,250]	26,000 [28,360]	26,200 [28,580]	
		lbf	56,440 [61,570]	57,100 [62,290]	57,320 [62,530]	57,760 [63,010]	
Arm crowd force	SAE	kN	276.6 [301.7]	224.6 [245.0]	191.2 [208.6]	170.6 [186.2]	
		kgf	28,200 [30,760]	22,900 [24,980]	19,500 [21,270]	17,400 [18,980]	
		lbf	62,170 [67,820]	50,490 [55,080]	42,990 [46,900]	38,360 [41,850]	
	ISO	kN	290.3 [316.7]	234.4 [255.7]	199.1 [217.2]	176.5 [192.6]	
		kgf	29,600 [32,290]	23,900 [26,070]	20,300 [22,150]	18,000 [19,640]	
		lbf	65,260 [71,190]	52,690 [57,480]	44,750 [48,820]	39,680 [43,290]	

Note: Boom weight includes arm cylinder, piping, and pin

Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R480LC-9A DIMENSIONS



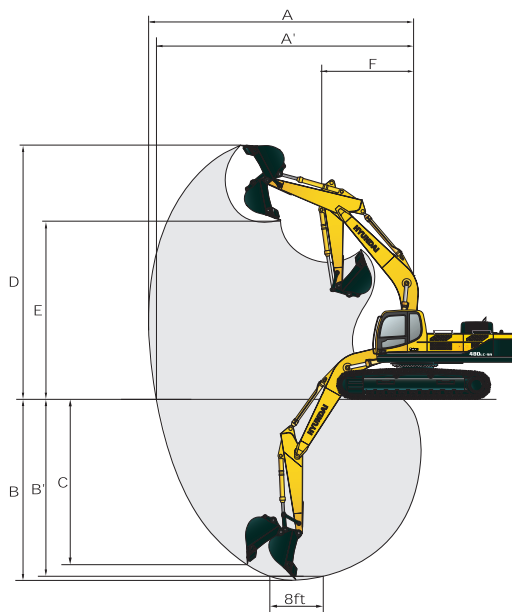
mm (ft-in)

mm (ft-in)

A Tumbler distance	4,470 (14' 8")	Boom length				7,060 (23' 2")	6,550 (21' 6")	9,000 (29' 6")	
B Overall length of crawler	5,462 (17' 11")	Arm length		2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")
C Ground clearance of counterweight	1,295 (4' 3")	I Overall length		12,430 (40' 3")	12,360 (40' 0")	12,220 (39' 7")	12,200 (39' 6")	11,930 (38' 7")	13,820 (44' 10")
D Tail swing radius	3,910 (12' 4")	J Overall height of boom		3,840 (12' 7")	3,770 (12' 4")	3,730 (12' 3")	4,040 (13' 3")	4,030 (13' 3")	5,200 (17' 1")
D' Rear-end length	3,855 (12' 1")	K Track shoe width		600 (24")	700 (28")	750 (30")	800 (32")	900 (36")	
E Overall width of upperstructure	2,980 (9' 9")	L Overall width		3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")	
F Overall height of cab	3,190 (10' 6")								
G Min. ground clearance	555 (1' 10")								
H Track gauge	2,740 (9' 0")								

R480LC-9A WORKING RANGE

mm (ft-in)













Boom length	7,060 (23' 2")				6,550 (21' 6")	9,000 (29' 6")
Arm length	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")
A Max. digging reach	11,160 (36' 7")	11,550 (37' 11")	12,100 (39' 8")	12,660 (41' 6")	10,610 (34' 10")	16,350 (53' 8")
A' Max. digging reach on ground	10,940 (35' 11")	11,340 (37' 2")	11,900 (39' 1")	12,470 (40' 11")	10,370 (34' 0")	16,200 (53' 2")
B Max. digging depth	6,850 (22' 6")	7,350 (24' 1")	7,810 (25' 7")	8,450 (27' 9")	6,370 (20' 11")	11,560 (37' 11")
B' Max. digging depth (8' level)	6,670 (21' 11")	7,190 (23' 7")	7,670 (25' 2")	8,320 (27' 4")	6,190 (20' 4")	11,460 (37' 7")
C Max. vertical wall digging depth	5,960 (19' 7")	5,930 (19' 5")	6,590 (21' 7")	7,170 (23' 6")	5,400 (17' 9")	10,320 (33' 10")
D Max. digging height	10,560 (34' 8")	10,530 (34' 7")	10,980 (36' 0")	11,210 (36' 9")	10,170 (33' 4")	13,840 (45' 5")
E Max. dumping height	7,120 (23' 4")	7,180 (23' 7")	7,620 (25' 0")	7,820 (25' 8")	6,750 (22' 2")	10,440 (34' 3")
F Min. swing radius	5,090 (16' 8")	4,910 (16' 1")	4,780 (15' 8")	4,910 (16' 1")	4,620 (15' 2")	5,940 (19' 6")

Lifting Capacity













R480LC-9A

 Rating over-front  Rating over-side or 360 degree

Boom : 6.55m (21' 6") / Arm : 2.40 m (7' 10") / Bucket : 2.15 m³ (2.81 yd³) SAE heaped / Shoe : 600mm (24") 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
(25 ft)	lb					*27510	*27510	*24290	20530	*20880	14480	(30.0)
4.5 m	kg			*18440	*18440	*13960	13040	11650	9010	*9440	5790	9.65
(20 ft)	lb			*40650	*40650	*30780	28750	25680	19860	*20810	12760	(31.7)
3.0 m	kg					*15580	12220	12420	8610	*9470	5410	9.86
(15 ft)	lb					*34350	26940	27380	18980	*20880	11930	(32.3)
1.5 m	kg					*16700	11550	13000	8240	*9510	5340	9.80
(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 (23' 2") / Arm : 2.40 m (7' 10") / Bucket : 2.15 m³ (2.81 yd³) SAE heaped / Shoe : 600mm (24") 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)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m	kg					*12000	*12000	*10370	9210			*8610	5730	9.75
(20 ft)	lb					*26460	*26460	*22860	20300			*18980	12630	(32.0)
4.5 m	kg					*13640	12660	*11150	8820			*8600	5100	10.21
(15 ft)	lb					*30070	27910	*24580	19440			*18960	11240	(33.5)
3.0 m	kg					*15310	11770	*12010	8370	*10080	6180	8630	4780	10.41
(10 ft)	lb					*33750	25950	*26480	18450	*22220	13620	19030	10540	(34.2)
1.5 m	kg					*16370	11110	*12650	7990	*10340	5980	8590	4720	10.36
(5 ft)	lb					*36090	24490	*27890	17610	*22800	13180	18940	10410	(34.0)
Ground	kg					*16540	10780	*12830	7740	*10270	5850	*8720	4930	10.05
Line	lb					*36460	23770	*28290	17060	*22640	12900	*19220	10870	(33.0)
-1.5 m	kg			*20270	16950	*15820	10710	*12360	7660			*8570	5470	9.46
(-5 ft)	lb			*44690	37370	*34880	23610	*27250	16890			*18890	12060	(31.0)
-3.0 m	kg	*20660	*20660	*17780	17250	*14130	10850	*10900	7770			*8040	6620	8.51
(-10 ft)	lb	*45550	*45550	*39200	38030	*31150	23920	*24030	17130			*17730	14590	(27.9)
-4.5 m	kg			*13800	*13800	*10900	*10900					*6360	*6360	7.04
(-15 ft)	lb			*30420	*30420	*24030	*24030					*14020	*14020	(23.1)

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook located on the back of the bucket.
- (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R480LC-9A

Rating over-front Rating over-side or 360 degree

Boom : 7.06m (23' 2") / Arm : 4.00 m (13' 1") / Bucket : 2.15 m³ (2.81 yd) SAE heaped / Shoe : 600mm (24") 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)		9.0 m (30 ft)		10.5 m (35 ft)		Capacity		Reach
																m (ft)
6.0 m (20 ft)	kg lb									*7750 17090	6810 15010			*6780 14950	4260 9390	11.35 (37.2)
4.5 m (15 ft)	kg lb						*9300 20500	9140 20150	*8250 18190	6560 14460	*5010 11050	4790 10560	*6840 15080	3840 8470	11.75 (38.5)	
3.0 m (10 ft)	kg lb			*17970 39620	*17970 39620	*13000 28660	12370 27270	*10430 22990	8590 18940	*8880 19580	6250 13780	*6710 14790	4630 10210	6790 14970	3610 7960	11.91 (39.1)
1.5 m (5 ft)	kg lb			*21130 46580	17770 39180	*14790 32610	11450 25240	*11470 25290	8070 17790	*9480 20900	5940 13100	*7610 16780	4460 9830	6730 14840	3550 7830	11.87 (38.9)
Ground	kg lb	*13120 28920	*13120 28920	*22460 49520	16830 37100	*15900 35050	10800 23810	*12200 26900	7650 16870	*8880 21780	5680 12520	*7180 15830	4330 9550	6920 15260	3640 8020	11.60 (38.1)
-1.5 m (-5 ft)	kg lb	*17270 38070	*17270 38070	*22270 49100	16480 36330	*16180 35670	10450 23040	*12440 27430	7390 16290	*9940 21910	5520 12170			*7210 15900	3930 8660	11.11 (36.5)
-3.0 m (-10 ft)	kg lb	*22170 48880	*22170 48880	*20930 46140	16490 36350	*15580 34350	10350 22820	*12030 26520	7300 16090	*9420 20770	5480 12080			*7150 15760	4500 9920	10.34 (33.9)
-4.5 m (-15 ft)	kg lb	*25260 55690	*25260 55690	*18420 40610	16750 36930	*13970 30800	10470 23080	*10700 23590	7390 16290					*6800 14990	5600 12350	9.21 (30.2)
-6.0 m (-20 ft)	kg lb	*18790 41420	*18790 41420	*14270 31460	*14270 31460	*10820 23850	*10820 23850							*5580 12300	*5580 12300	7.55 (24.8)

Boom : 9.0m (29' 6") / Arm : 5.85 m (19' 2") / Bucket : 1.38 m³ (1.80 yd) SAE heaped / Shoe : 600mm (24") triple grouser

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

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook located on the back of the bucket.
- (*) indicates the load limited by hydraulic capacity.

Lifting Capacity

R480LC-9A

Rating over-front Rating over-side or 360 degree

Boom : 7.06m (23' 2") / Arm : 2.90 m (9' 6") / Bucket : 2.15 m³ (2.81 yd³) SAE heaped / Shoe : 600mm (24") 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)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb							*9720 21430	9320 20550			*7970 17570	5290 11660	10.17 (33.4)
4.5 m (15 ft)	kg lb			*17130 37770	*17130 37770	*12810 28240	*12810 28240	*10570 23300	8900 19620	*9230 20350	6420 14150	*8010 17660	4720 10410	10.62 (34.8)
3.0 m (10 ft)	kg lb			*20840 45940	18260 40260	*14600 32190	11920 26280	*11520 25400	8410 18540	*9700 21380	6170 13600	8080 17810	4430 9770	10.80 (35.4)
1.5 m (5 ft)	kg lb			*22630 49890	17010 37500	*15920 35100	11160 24600	*12300 27120	7970 17570	*10090 22240	5930 13070	8030 17700	4360 9610	10.75 (35.3)
Ground Line	kg lb			*22430 49450	16650 36710	*16410 36180	10720 23630	*12670 27930	7670 16910	*10200 22490	5760 12700	*8290 18280	4520 9960	10.46 (34.3)
-1.5 m (-5 ft)	kg lb	*19830 43720	*19830 43720	*21180 46690	16670 36750	*16030 35340	10560 23280	*12460 27470	7530 16600			*8270 18230	4970 10960	9.89 (32.4)
-3.0 m (-10 ft)	kg lb	*24070 53070	*24070 53070	*18990 41870	16910 37280	*14720 32450	10630 23440	*11420 25180	7570 16690			*8000 17640	5900 13010	9.00 (29.5)
-4.5 m (-15 ft)	kg lb	*19160 42240	*19160 42240	*15510 34190	*15510 34190	*12130 26740	10930 24100					*7000 15430	*7000 15430	7.64 (25.1)

Boom : 7.06m (23' 2") / Arm : 3.38 m (11' 1") / Bucket : 2.15 m³ (2.81 yd³) SAE heaped / Shoe : 600mm (24") 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)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
6.0 m (20 ft)	kg lb							*9220 20330	*9220 20330	*8240 18170	6740 14860	*7490 16510	4800 10580	10.75 (35.3)
4.5 m (15 ft)	kg lb					*12140 26760	*12140 26760	*10130 22330	9050 19950	*8910 19640	6530 14400	*7530 16600	4320 9520	11.17 (36.6)
3.0 m (10 ft)	kg lb			*19830 43720	18930 41730	*14060 31000	12170 26830	*11170 24630	8540 18830	*9450 20830	6260 13800	7470 16470	4070 8970	11.35 (37.2)
1.5 m (5 ft)	kg lb			*22320 49210	17460 38490	*15610 34410	11360 25040	*12080 26630	8080 17810	*9940 21910	5990 13210	7420 16360	4010 8840	11.30 (37.1)
Ground Line	kg lb			*22800 50270	16860 37170	*16390 36130	10850 23920	*12610 27800	7730 17040	*10190 22470	5790 12760	7670 16910	4140 9130	11.02 (36.2)
-1.5 m (-5 ft)	kg lb	*18070 39840	*18070 39840	*21950 48390	16730 36880	*16290 35910	10610 23390	*12600 27780	7550 16640	*10010 22070	5680 12520	*7770 17130	4500 9920	10.49 (34.4)
-3.0 m (-10 ft)	kg lb	*24350 53680	*24350 53680	*20080 44270	16870 37190	*15280 33690	10820 23850	*11850 26120	7530 16600			*7590 16730	5240 11550	9.66 (31.7)
-4.5 m (-15 ft)	kg lb	*22100 48720	*22100 48720	*16990 37460	*16990 37460	*13120 28920	10820 23850	*9890 21800	7710 17000			*6910 15230	6720 14820	8.43 (27.7)
-6.0 m (-20 ft)	kg lb			*11930 26300	*11930 26300	*8900 19620	*8900 19620							

- Lifting capacity is based on SAE J1097, ISO 10567.
- 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.
- The load point is a hook located on the back of the bucket.
- (*) indicates the load limited by hydraulic capacity.

Notes

Notes

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
Transparent cabin roof-cover
Radio & USB player
Handsfree mobile phone system with USB
12 volt power outlet (24V DC to 12V DC converter)
Sun visor

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

Three outside rearview mirrors

Mechanical suspension seat with heater

Pilot-operated slidable joystick

Console box height adjust system

Four front working lights, one rear light

Electric horn

Batteries (2 x 12V x 200 AH)

Battery master switch

Removable clean-out dust net for cooler

Automatic swing brake

Automatic fuel line deaeration

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)

Viscous fan clutch

Travel alarm

Rear work Lahp

Smart key

Predeaner(Dry)

OPTIONAL EQUIPMENT

Fuel filler pump (50 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

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")

Counterweight

9,200kg (20,280lb)

9,700kg (21,380lb)

10,200kg (22,490lb)

10,700kg (23,590lb)

Climate control

Air conditioner only

Heater only

Cabin FOPS/FOG (ISO/DIS 10262 Level II)

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

Cabin ROPS (ISO 12117-2)

ROPS (Roll Over Protective Structure)

Cabin guard front

Wire net

Fine net

Cabin roof-steel cover

Cabin lights

Cabin front window rain guard

Track shoes

Triple grousers shoe (700mm, 28") (Heavy Duty Type)

Triple grousers shoe (600mm, 24") (Heavy Duty Type)

Triple grousers shoe (700mm, 28")

Triple grousers shoe (750mm, 30")

Triple grousers shoe (800mm, 32")

Triple grousers shoe (900mm, 36")

Double grousers shoe (600mm, 24")

Double grousers shoe (700mm, 28")

Full track rail guard

Lower frame under cover (Additional)

Tool kit

Operator suit

Rearview camera

Seat

Adjustable air suspension seat with heater

Pattern change valve (2 patterns)

Hi-mate (Remote Management System)

Air compressor

* 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



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