

Gross Power
SAE J1995 / 150 HP at 1,950 rpm

Net Power
SAE J1349 / 143 HP at 1,950 rpm

Bucket Capacity
0.51 ~ 1.34m³

Operating Weight
21,900 kg / 12,350 lbs

Robex 220LC-9S

With Tier 2 Engine installed



HYUNDAI CONSTRUCTION EQUIPMENT

Head Office(Sales Office)
3F, Bundang First Tower, 55 Bundang-ro, Bundang-gu, Seongnam-si, Gyeonggi-do, 13591, Korea

PLEASE CONTACT



PRIDE AT WORK

Hyundai Construction Equipment 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!

Machine Walk-Around

Engine Technology

Easy & Simple Serviceability / 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 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 / 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
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 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, 20% more heat and air output than 7 series!

Hi-mate

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.



Robex **220LC-9S**
220-9S



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.

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, start-up machine security, and were integrated into the cluster to make the machine more versatile and the operator more productive.



* Photo may include optional equipment.



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.



HYUNDAI HM5.9

The six cylinders, turbo-charged, 4 cycle, charger air cooled engine is built for power, reliability, economy and low emissions.



A More Reliable Way To Reach Your Dream.

The HYUNDAI HM 5.9 engine has been designed with 40% fewer parts than the competition. That means there's less that can go wrong when you need it most. It also means fewer parts to inventory. Repairs are simplified because no special tools are needed for maintenance. The weight of the machine is reduced without sacrificing strength. The HYUNDAI HM5.9 engine is capable of reaching emission standards without electronic engine controls. You get a proven power plant that meets ecological concerns, without paying a premium for technology you don't need.

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.



Improved Durability

9S series excavators are equipped with Hi-Grade hoses to make sure of it without oil-leakage and stainless spring guards to protect hoses from external damages.



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.



Photo may include optional equipment



PROFITABILITY

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



HiMATE

Option

IT'S CONVENIENT, EASY AND VALUABLE

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.

WHAT IS BENEFITS



Increase Productivity

It helps you operate machines in efficient. You can check the difference between total engine hours and actual working hours. See how productive your machines are and plan any required cost saving solutions. Hi-MATE offers working information such as working / idling hours, fuel consumption and rate.



Convenient and Easy Monitoring

There is nothing much to do to monitor your machines. Just log on to the Hi-MATE website or mobile application. Hi-MATE allows you to watch your machines whenever and wherever you are.



Security

Protect your machines from theft or unauthorized usage with Hi-MATE. If the machine moves out of the Geo-fence boundary, you will get alerts.

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.



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.

*Photo may include optional equipment.

SPECIFICATIONS

ENGINE			
Maker / Model		HYUNDAI HM 5.9	
Type		Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	150 HP at 1,950 rpm
		J1995 (gross)	143 HP at 1,950 rpm
	DIN	6271/1 (gross)	152 PS at 1,950 rpm
		6271/1 (net)	145 PS at 1,950 rpm
Max. torque		62.6kgf.m/1,500rpm	
Bore X stroke		102mm X 120mm	
Piston displacement		5,900cc	
Batteries		2 X 12V X 100AH	
Starting motor		24V, 4.5kW	
Alternator		24V, 90Amp	
HYDRAULIC SYSTEM			
MAIN PUMP			
Type		Variable displacement tandem axis piston pumps	
Rated flow		2 X 222.3 L /min (58.7 US gpm/48.9 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		350 kgf/cm ² (4,980 psi)	
Travel		350 kgf/cm ² (4,980 psi)	
Power Boost (Boom, Arm, Bucket)		380 kgf/cm ² (5,400 psi)	
Swing Circuit		265 kgf/cm ² (3,770 psi)	
Pilot Circuit		40 kgf/cm ² (570 psi)	
Service Valve		Installed	
HYDRAULIC CYLINDERS			
No. of Cylinder Bore X Stroke		Boom: 2-120 X 1,290 mm (4.7" X 50.8")	
		Arm: 1-140 X 1,510 mm (5.5" X 59.4")	
		Bucket: 1-120 X 1,055 mm (4.7" X 41.5")	
DRIVES & BRAKES			
Drive Method		Fully hydrostatic type	
Drive Motor		Axial piston motor, in-shoe design	
Reduction System		Planetary reduction gear	
Max. Drawbar Pull		21,100 kgf (46,517 lbf)	
Max. Travel Speed (High / Low)		5.5 km/hr (3.4mph) / 3.8 km/hr (2.4mph)	
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	Fixed displacement axial pistons motor			
Swing Reduction	Planetary gear reduction			
Swing Bearing Lubrication	Grease-bathed			
Swing Brake	Multi wet disc			
Swing Speed	11.1 rpm			
COOLANT & LUBRICANT CAPACITY				
Refilling	liter			
Fuel tank	400.0			
Engine coolant	35			
Engine oil	24.0			
Swing device-gear oil(OTP)	5.0(6.2)			
Final drive(each)-gear oil(OTP)	5.8(6.0)			
Hydraulic system (including tank)	275.0			
Hydraulic tank	160.0			
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.				
Model	R220LC-9S	R220-9S		
Center frame	X - leg type	X - leg type		
Track frame	Pentagonal box type	Pentagonal box type		
No. of shoes on each side	49 EA	46 EA		
No. of carrier roller on each side	2 EA	2 EA		
No. of track roller on each side	9 EA	7 EA		
No. of rail guard on each side	2 EA	1 EA		
OPERATING WEIGHT (APPROXIMATE)				
Operating weight, including 5,680mm (18' 8") boom, 2,920mm (9' 7") arm, SAE heaped 0.92m3 (1.20 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.				
MAJOR COMPONENT WEIGHT				
Upperstructure	5,600kg (12,350lb)			
Boom (with arm cylinder)	1,950kg (4,300lb)			
Arm (with bucket cylinder)	1,095kg (2,410lb)			
OPERATING WEIGHT				
Shoes		Operating weight	Ground pressure	
Type	Width mm(in)	kg(lb)	kgf/cm²(psi)	
Triple grouser	600 (24")	R220LC-9S	21,900	0.47
		R220LC-9S / H / W	23,360	0.50
		R220-9S	21,200	0.49
	700 (28")	R220LC-9S	22,250	0.41
		R220LC-9S / H / W	23,710	0.43
		R220-9S	21,470	0.42
	800 (32")	R220LC-9S	22,515	0.36
		R220LC-9S / H/ W	23,975	0.38
		R220-9S	21,740	0.38
	900 (35")	R220LC-9S	22,760	0.32
		R220LC-9S / H / W	24,255	0.35
		R220-9S	22,000	0.34
Double grouser	700 (28")	R220LC-9S / H / W	24,220	0.43
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 0.8kg refrigerant consisting of a CO ₂ equivalent 1.14kg metric tonne. For more information, Please refer to the manual				

DIMENSIONS & WORKING RANGE

R220-9S DIMENSIONS

The image shows two views of the R220-9S excavator. The side view on the left shows the boom and arm extended, with dimensions A (tumbler distance), B (overall length of crawler), C (ground clearance of counterweight), D (tail swing radius), D' (rear-end length), I (overall length), and J (overall height of boom). The rear view on the right shows dimensions E (overall width of upperstructure), F (overall height of cab), G (min. ground clearance), H (track gauge), K (track shoe width), and L (overall width). The excavator is yellow and black with 'HYUNDAI' and '220-9S' branding.

Unit : mm (ft · in)

A Tumbler distance	3,360
B Overall length of crawler	4,114
C Ground clearance of counterweight	1,060
D Tail swing radius	2,840
D' Rear-end length	2,770
E Overall width of upperstructure	2,740
F Overall height of cab	3,000
G Min. ground clearance	480
H Track gauge	2,200

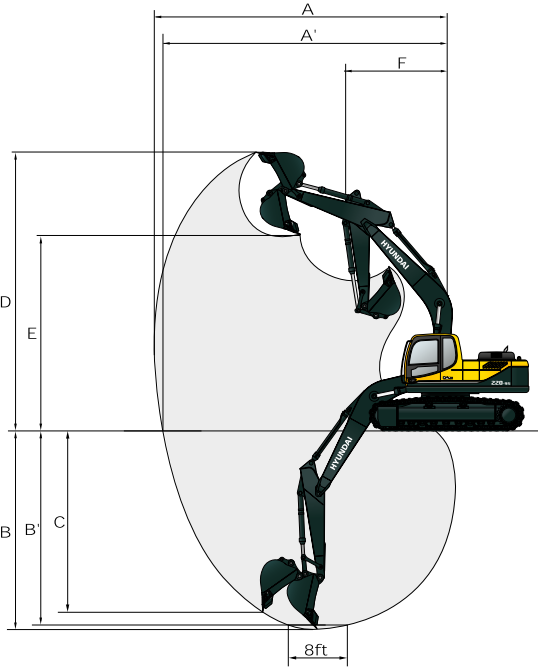
Boom length	5,680			
Arm length	2,000	2,400	2,920	3,900
I Overall length	9,650	9,570	9,530	9,520
J Overall height of boom	3,200	3,110	3,030	3,480
K Track shoe width	600 (24")	700 (28")	800 (32")	900 (34")
L Overall width	2,800	2,900	3,000	3,100

R220-9S WORKING RANGE

Unit : mm (ft · in)

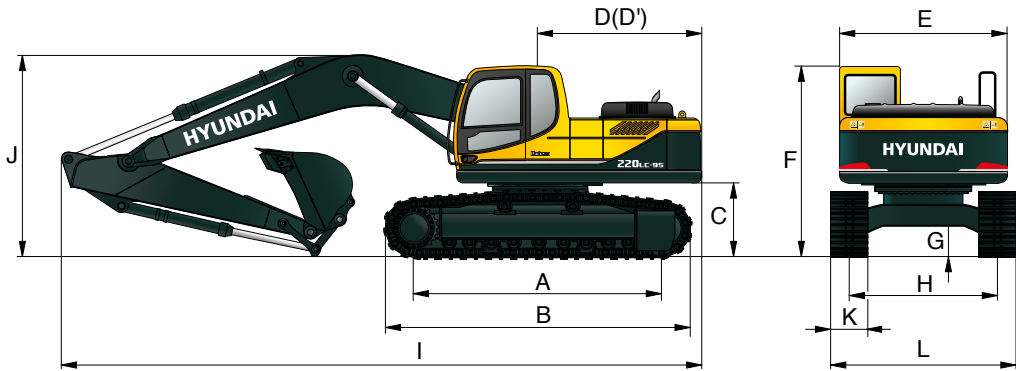
The image shows the working range of the R220-9S excavator. The boom and arm are shown in various positions, creating a shaded area representing the reach. Dimensions A (max. digging reach), A' (max. digging reach on ground), B (max. digging depth), B' (max. digging depth at 8' level), C (max. vertical wall digging depth), D (max. digging height), E (max. dumping height), and F (min. swing radius) are indicated. The excavator is yellow and black with 'HYUNDAI' and '220-9S' branding.

Boom length	5,680			
Arm length	2,000	2,400	2,920	3,900
A Max. digging reach	9,140	9,500	9,980	10,910
A' Max. digging reach on ground	8,960	9,330	9,820	10,770
B Max. digging depth	5,820	6,220	6,730	7,720
B' Max. digging depth (8' level)	5,580	6,010	6,560	7,580
C Max. vertical wall digging depth	5,280	5,720	6,280	7,240
D Max. digging height	9,140	9,340	9,600	10,110
E Max. dumping height	6,330	6,520	6,780	7,290
F Min. swing radius	3,750	3,740	3,740	3,650



DIMENSIONS & WORKING RANGE

R220LC-9S DIMENSIONS

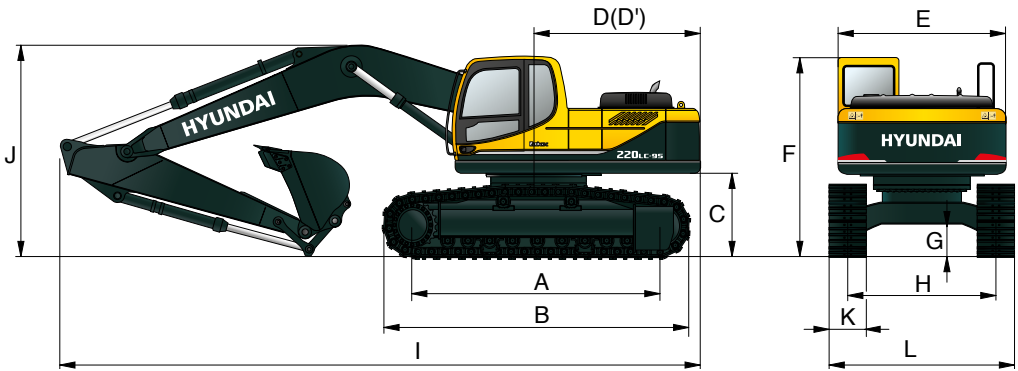


Unit : mm (ft · in)

A	Tumbler distance	3,650
B	Overall length of crawler	4,440
C	Ground clearance of counterweight	1,060
D	Tail swing radius	2,840
D'	Rear-end length	2,770
E	Overall width of upperstructure	2,740
F	Overall height of cab	3,000
G	Min. ground clearance	480
H	Track gauge	2,390

Boom length	5,680				8,200
Arm length	2,000	2,400	2,920	3,900	6,300
I Overall length	9,650	9,570	9,530	9,520	12,030
J Overall height of boom	3,200	3,110	3,030	3,480	3,280
K Track shoe width	600 (24")	700 (28")	800 (32")	900 (34")	
L Overall width	2,990	3,090	3,190	3,290	

R220LC-9S HIGH WALKER DIMENSIONS

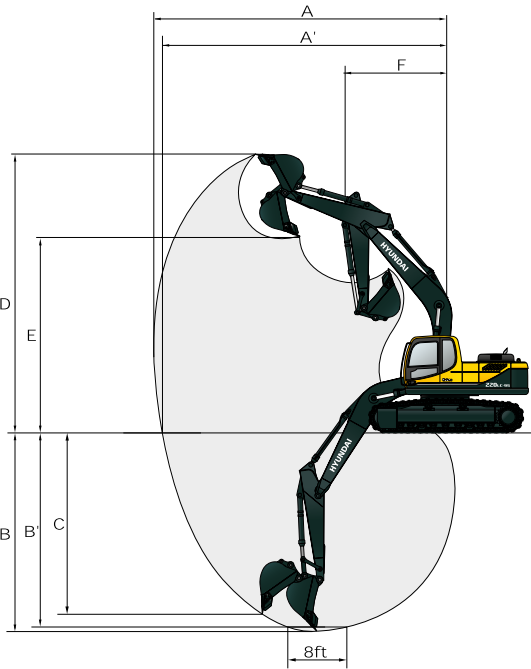


Unit : mm (ft · in)

A	Tumbler distance	3,650
B	Overall length of crawler	4,440
C	Ground clearance of counterweight	1,260
D	Tail swing radius	2,840
D'	Rear-end length	2,770
E	Overall width of upperstructure	2,740
F	Overall height of cab	3,000
G	Min. ground clearance	660
H	Track gauge	2,795

Boom length	5,680			
Arm length	2,000	2,400	2,920	3,900
I Overall length	9,650	9,550	9,470	9,560
J Overall height of boom	3,200	3,170	3,060	3,450
K Track shoe width	Triple grouser			Double grouser
	600 (24")	700 (28")	800 (32")	900 (34")
L Overall width	3,395	2,495	3,595	3,495

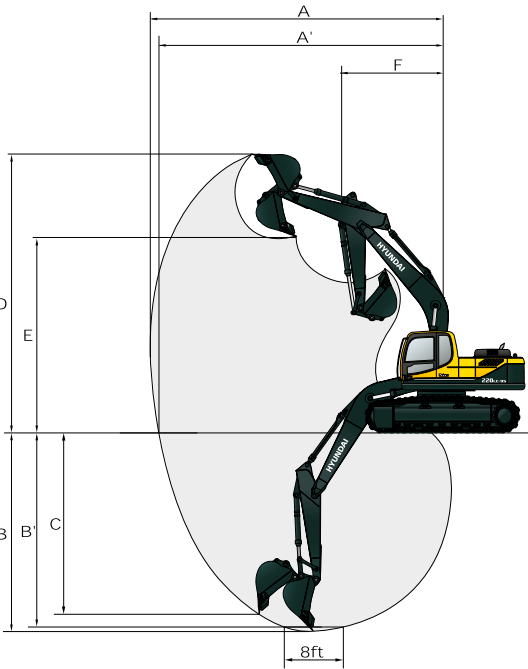
R220LC-9S WORKING RANGE



Unit : mm (ft · in)

Boom length	5,680				8,200
Arm length	2,000	2,400	2,920	3,900	6,300
A Max. digging reach	9,140	9,500	9,980	10,910	15,220
A' Max. digging reach on ground	8,960	9,330	9,820	10,770	15,120
B Max. digging depth	5,820	6,220	6,730	7,720	11,760
B' Max. digging depth (8' level)	5,580	6,010	6,560	7,580	11,650
C Max. vertical wall digging depth	5,280	5,720	6,280	7,240	9,610
D Max. digging height	9,140	9,340	9,600	10,110	12,550
E Max. dumping height	6,330	6,520	6,780	7,290	10,280
F Min. swing radius	3,750	3,740	3,740	3,650	4,870

R220LC-9S HIGH WALKER WORKING RANGE



























Unit : mm (ft · in)













Boom length	5,680			
Arm length	2,000	2,400	2,920	3,900
A Max. digging reach	9,140	9,500	9,980	10,910
A' Max. digging reach on ground	8,920	9,290	9,820	10,730
B Max. digging depth	5,630	6,010	6,550	7,530
B' Max. digging depth (8' level)	5,390	5,820	6,380	7,390
C Max. vertical wall digging depth	5,090	5,630	6,100	7,050
D Max. digging height	9,330	9,530	9,780	10,300
E Max. dumping height	6,520	6,710	6,960	7,480
F Min. swing radius	3,750	3,740	3,740	3,650

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree













R220-9S													
Boom : 5.68m / Arm : 2.40 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser													
Load point height (m)		Load radius										At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity	
													
7.5m	kg											*3,700	3,220
6.0m	kg							*4,010	*4,010			*3,780	2,410
4.5m	kg							*4,490	4,140	*4,230	2,730	3,500	2,020
3.0m	kg						6,100	*5,280	3,870	4,500	2,620	3,240	1,830
1.5m	kg					*8,560	5,540	*6,120	3,590	4,350	2,490	3,180	1,780
Ground	kg			*8,790	*8,790	*9,490	5,250	6,050	3,400	4,250	2,390	3,340	1,870
-1.5m	kg	*9,760	*9,760	*13,510	*10,230	9,630	5,170	5,960	3,330			3,770	2,140
-3.0m	kg	*14,150	*14,150	*13,240	*10,440	*9,090	5,240	6,010	3,370			*4,700	2,770
-4.5m	kg			*10,630	*10,630	*7,400	5,490						













Boom : 5.68m / Arm : 2.92 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser													
Load point height (m)		Load radius										At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity	
													
7.5m	kg											*3,360	2,780
6.0m	kg									*2,340	*2,340	*3,450	2,140
4.5m	kg							*4,010	*4,010	*4,230	2,780	3,180	1,810
3.0m	kg			*9,780	*9,780	*6,150	*6,150	*4,840	3,920	4,220	2,650	2,950	1,650
1.5m	kg			*8,810	*8,810	*7,960	5,640	*5,750	3,620		2,490	2,900	1,600
Ground	kg			*9,550	*9,550	*9,160	5,260	6,040	3,390		2,370	3,020	1,660
-1.5m	kg	*8,810	*8,810	*12,610	10,050	9,560	5,110	5,910	3,270		2,310	3,360	1,870
-3.0m	kg	*12,190	*12,190	*13,980	10,210	*9,320	5,130	5,900	3,270			4,120	2,340
-4.5m	kg			*11,860	10,550	*8,120	5,300					*4,330	3,570













Boom : 5.68m / Arm : 3.90 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser													
Load point height (m)		Load radius										At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		9.0m	
													
9.0m	kg											*2,740	*2,740
7.5m	kg									*1,980	*1,980	*2,800	2,110
6.0m	kg									*2,840	*2,840	*2,900	1,680
4.5m	kg									*3,090	2,860	*2,040	1,910
3.0m	kg							*3,940	*3,940	*3,560	2,690	*2,910	1,840
1.5m	kg			*11,130	*11,130	*6,640	5,860	*4,950	3,690	*4,120	2,490	3,170	1,730
Ground	kg	*5,260	*5,260	*10600	10,070	*8,250	5,290	*5,860	3,380	4,180	2,320	3,070	1,640
-1.5m	kg	*7,500	*7,500	*11650	9,720	*9,150	4,980	5,810	3,180	4,050	2,200	*2,370	1,590
-3.0m	kg	*9,990	*9,990	*14350	9,730	9,330	4,890	5,720	3,100	4,010	2,160		
-4.5m	kg	*12,960	*12,960	*13360	9,960	*8,830	4,970	5,780	3,140				
-6.0m	kg			*10,610	10,450	*7,100	5,240						

1. Lifting capacity is 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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

 Rating over-front  Rating over-side or 360 degree















R220LC-9S													
Boom : 5.68m / Arm : 2.0 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser													
Load point height (m)		Load radius								At max. reach			
		3.0m		4.5m		6.0m		7.5m		Capacity		Reach	
													
7.5m	kg											*4,010	*4,010
6.0m	kg									*4,440	*4,440		
4.5m	kg					*5,730	*5,730	*4,860	4,630			*4,060	3,040
3.0m	kg					*7,460	6,840	*5,610	4,370			*4,190	2,540
1.5m	kg					*8,990	6,320	*6,390	4,120	*4,830	3,000	4,040	2,310
Ground	kg					*9,690	6,090	*6,910	3,950	*4,980	2,810	4,200	2,380
-1.5m	kg	*13,990	12,260	*9,630	6,070	*6,990	3,910					4,820	2,750
-3.0m	kg	*12,500	12,500	*8,820	6,180	*6,350	3,990					*4,850	3,650
-4.5m	kg	*9,460	*9,460			*10,630							















Boom : 5.68m / Arm : 2.40 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser													
Load point height (m)		Load radius										At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity	
													
7.5m	kg											*3,700	3,640
6.0m	kg									*4,010	*4,010		
4.5m	kg							*4,490	*4,490	*4,230	3,130	*3,900	2,340
3.0m	kg							*6,900	*6,900	*5,280	4,400	*4,560	3,010
1.5m	kg							*8,560	6,380	*6,120	4,130	*4,970	2,880
Ground	kg					*8,790	*8,790	*9,490	6,080	*6,740	3,930	4,950	2,780
-1.5m	kg	*9,760	*9,760	*13,510	12,060	*9,650	6,000	*6,960	3,850				
-3.0m	kg	*14,150	14,150	*13,240	12,280	*9,090	6,080	*6,590	3,900				
-4.5m	kg					*10,630	*10,630	*7,400	6,330				















Boom : 5.68 m / Arm : 2.92 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser														
Load point height (m)		Load radius										At max. reach		
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity		Reach
														(m)
7.5m	kg											*3,360	3,150	7.78
6.0m	kg									*2,340	*2,340	*3,450	2,460	8.74
4.5m	kg							*4,010	*4,010	*3,830	*3,830	*3,580	2,100	9.32
3.0m	kg			*9,780	*9,780	*6,150	*6,150	*4,840	4,460	*4,230	*4,230	3,440	1,930	9.59
1.5m	kg			*8,810	*8,810	*7,960	6,490	*5,750	4,160	*4,710	*4,710	3,390	1,880	9.59
Ground	kg			*9,550	*9,550	*9,160	6,090	*6,490	3,920	4,930	4,930	3,520	1,950	9.31
-1.5m	kg	*8,810	*8,810	*12,610	11,870	*9,600	5,940	*6,870	3,800	4,860	4,860	3,920	2,190	8.72
-3.0m	kg	*12,190	*12,190	*13,980	12,040	*9,320	5,960	*6,740	3,800			*4,460	2,710	7.75
-4.5m	kg			*11,860	*11,860	*8,120	6,140					*4,330	4,080	6.16

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree















R220LC-9S															
Boom : 5.68m / Arm : 3.90 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser															
Load point height (m)		Load radius												At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		9.0m		Capacity	
															
9.0m	kg													*2,740	*2,740
7.5m	kg									*1,980	*1,980			*2,800	2,420
6.0m	kg									*2,840	*2,840			*2,900	1,960
4.5m	kg									*3,090	*3,090	*2,040	*2,040	*3,020	1,700
3.0m	kg							*3,940	*3,940	*3,560	3,080	*2,910	2,140	2,890	1,560
1.5m	kg			*11,130	*11,130	*6,640	*6,640	*4,950	4,220	*4,120	2,880	*3,450	2,040	2,840	1,510
Ground	kg	*5,260	*5,260	*10,600	*10,600	*8,250	6,130	*5,860	3,910	*4,650	2,710	*3,530	1,950	2,930	1,550
-1.5m	kg	*7,500	*7,500	*11,650	11,540	*9,150	5,810	*6,490	3,700	4,750	2,590	*2,370	1,900	3,180	1,700
-3.0m	kg	*9,990	*9,990	*14,350	11,540	*9,360	5,720	*6,700	3,620	4,710	2,550			3,710	2,030
-4.5m	kg	*12,960	*12,960	*13,360	11,780	*8,830	5,800	*6,340	3,670					*4,030	2,730
-6.0m	kg			*10,610	*10,610	*7,100	6,080								













R220LC-9S HIGH WALKER															
Boom : 5.68m / Arm : 2.40 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser															
Load point height (m)		Load radius										At max. reach			
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity		Reach	
															
7.5m	kg											*3,700	*3,700	7.31	
6.0m	kg							*4,050	*4,050			*3,790	3,480	8.30	
4.5m	kg					*5,360	*5,360	*4,580	*4,580	*4,260	4,030	*3,920	3,020	8.87	
3.0m	kg					*7,130	*7,130	*5,390	*5,390	*4,610	3,900	4,010	2,810	9.12	
1.5m	kg					*8,720	8,370	*6,220	5,360	*5,020	3,770	3,990	2,780	9.08	
Ground	kg			*9,350	*9,350	*9,550	8,080	*6,790	5,170	5,290	3,670	4,210	2,940	8.75	
-1.5m	kg	*10,290	*10,290	*14,180	*14,180	*9,620	8,020	*6,950	5,100			*4,650	3,360	8.07	
-3.0m	kg	*14,760	*14,760	*12,990	*12,990	*8,950	8,120	*6,470	5,170			*4,690	4,350	6.94	
-4.5m	kg			*10,150	*10,150	*7,020	*7,020								

Boom : 5.68m / Arm : 2.92 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser															
Load point height (m)		Load radius										At max. reach			
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity		Reach	
															
7.5m	kg											*3,370	*3,370	7.93	
6.0m	kg									*2,700	*2,700	*3,460	3,130	8.83	
4.5m	kg							*4,110	*4,110	*3,870	*3,870	*3,600	2,740	9.37	
3.0m	kg			*10,440	*10,440	*6,400	*6,400	*4,960	*4,960	*4,290	3,930	3,680	2,560	9.60	
1.5m	kg			*8,610	*8,610	*8,150	*8,150	*5,860	5,380	*4,760	3,770	3,650	2,530	9.57	
Ground	kg			*9,870	*9,870	*9,260	8,080	*6,560	5,150	*5,150	3,640	3,820	2,650	9.25	
-1.5m	kg	*9,210	*9,210	*13,090	*13,090	*9,600	7,940	*6,880	5,040	5,200	3,590	4,280	2,980	8.62	
-3.0m	kg	*12,660	*12,660	*13,780	*13,780	*9,230	7,990	*6,670	5,060			*4,470	3,710	7.59	
-4.5m	kg			*11,470	*11,470	*7,860	*7,860					*4,250	*4,250	5.89	

1. Lifting capacity is 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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.















 Rating over-front  Rating over-side or 360 degree















R220LC-9S HIGH WALKER															
Boom : 5.68m / Arm : 3.90 m / Bucket : 0.92 m³ SAE heaped / Shoe : 600mm triple grouser															
Load point height (m)		Load radius												At max. reach	
		1.5m		3.0m		4.5m		6.0m		7.5m		9.0m		Capacity	
															
9.0m	kg													*2,750	*2,750
7.5m	kg									*2,220	*2,220			*2,810	*2,810
6.0m	kg									*2,850	*2,850			*2,910	2,550
4.5m	kg									*3,140	*3,140	*2,180	*2,180	*3,030	2,270
3.0m	kg							*4,060	*4,060	*3,620	*3,620	*2,990	2,840	3,100	2,120
1.5m	kg			*11,630	*11,630	*6,880	*6,880	*5,070	*5,070	*4,190	3,770	*3,490	2,730	3,070	2,090
Ground	kg	*5,540	*5,540	*10,590	*10,590	*8,400	8,100	*5,960	5,130	*4,710	3,590	*3,480	2,640	3,180	2,160
-1.5m	kg	*7,800	*7,800	*11,920	*11,920	*9,220	7,800	*6,540	4,940	*5,060	3,480			3,480	2,370
-3.0m	kg	*10,330	*10,330	*14,530	*14,530	*9,340	7,730	*6,690	4,870	5,060	3,450			*3,920	2,820
-4.5m	kg	*13,390	*13,390	*13,120	*13,120	*8,690	7,840	*6,230	4,940					*4,030	3,800
-6.0m	kg			*10,090	*10,090	*6,720	*6,720								

Boom : 5.68 m / Arm : 2.40 m / Bucket : 0.92 m³ SAE heaped / Shoe : 800mm triple grouser														
Load point height (m)		Load radius										At max. reach		
		1.5m		3.0m		4.5m		6.0m		7.5m		Capacity		Reach
														(m)
7.5m	kg											*3,700	*3,700	7.31
6.0m	kg							*4,050	*4,050			*3,790	3,570	8.30
4.5m	kg					*5,360	*5,360	*4,580	*4,580	*4,260	4,130	*3,920	3,110	8.87
3.0m	kg					*7,130	*7,130	*5,390	*5,390	*4,610	4,010	*4,080	2,890	9.12
1.5m	kg					*8,720	8,580	*6,220	5,500	*5,020	3,870	4,110	2,860	9.08
Ground	kg			*9,350	*9,350	*9,550	8,290	*6,790	5,310	*5,320	3,780	4,340	3,020	8.75
-1.5m	kg	*10,290	*10,290	*14,180	*14,180	*9,620	8,230	*6,950	5,240			*4,650	3,450	8.07
-3.0m	kg	*14,760	*14,760	*12,990	*12,990	*8,950	8,330	*6,470	5,310			*4,690	4,470	6.94
-4.5m	kg			*10,150	*10,150	*7,020	*7,020							

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

R220LC-9S HIGH WALKER																
Boom : 5.68 m / Arm : 3.90 m / Bucket : 0.92 m³ SAE heaped / Shoe : 800mm triple grouser																
Load point height (m)		Load radius												At max. reach		
		1.5m		3.0m		4.5m		6.0m		7.5m		9.0m		Capacity		Reach (m)
																
9.0m	kg													*2,750	*2,750	7.86
7.5m	kg									*2,220	*2,220			*2,810	*2,810	9.06
6.0m	kg									*2,850	*2,850			*2,910	2,620	9.85
4.5m	kg									*3,140	*3,140	*2,180	*2,180	*3,030	2,340	10.33
3.0m	kg							*4,060	*4,060	*3,620	*3,620	*2,990	2,920	*3,180	2,190	10.54
1.5m	kg			*11,630	*11,630	*6,880	*6,880	*5,070	*5,070	*4,190	3,870	*3,490	2,820	3,170	2,160	10.50
Ground	kg	*5,540	*5,540	*10,590	*10,590	*8,400	8,310	*5,960	5,270	*4,710	3,700	*3,480	2,730	3,280	2,230	10.22
-1.5m	kg	*7,800	*7,800	*11,920	*11,920	*9,220	8,010	*6,540	5,080	*5,060	3,580			3,590	2,450	9.67
-3.0m	kg	*10,330	*10,330	*14,530	*14,530	*9,340	7,940	*6,690	5,010	*5,090	3,550			*3,920	2,900	8.78
-4.5m	kg	*13,390	*13,390	*13,120	*13,120	*8,690	8,050	*6,230	5,080					*4,030	3,910	7.41
-6.0m	kg			*10,090	*10,090	*6,720	*6,720									

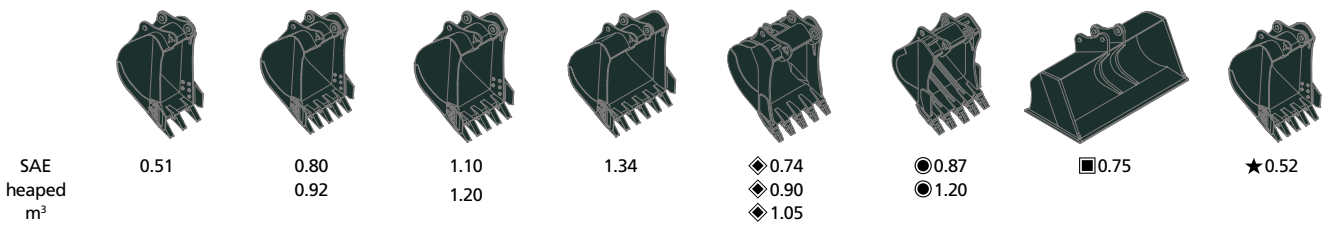
R220LC-9S LONG REACH																		
Boom : 8.2m / Arm : 6.3 m / Bucket : 0.52 m³ SAE heaped / Shoe : 800mm triple grouser																		
Load point height (m)		Load radius														At max. reach		
		4.5m		6.0m		7.5m		9.0m		10.5m		12.0m		13.5m		Capacity		Reach (m)
																		
10.0m	kg															*1,480	*1,480	12.11
9.0m	kg											*930	*930			*1,510	*1,510	13.11
7.5m	kg											*1,550	*1,550			*1,550	1,320	13.84
6.0m	kg									*1,600	*1,600	*1,610	*1,610			*1,600	1,160	14.37
4.5m	kg									*1,790	*1,790	*1,730	1,720	*1,260	*1,260	*1,660	1,050	14.72
3.0m	kg					*2,520	*2,520	*2,220	*2,220	*2,020	*2,020	*1,880	1,630	*1,590	1,220	*1,720	980	14.89
1.5m	kg	*5,620	*5,620	*3,940	*3,940	*3,090	*3,090	*2,590	*2,590	*2,270	2,000	*2,050	1,530	*1,790	1,170	*1,800	940	14.90
Ground	kg	*6,990	6,720	*4,770	4,490	*3,620	3,240	*2,950	2,430	*2,510	1,860	*2,220	1,440	*1,820	1,110	1,880	930	14.75
-1.5m	kg	*7,830	6,210	*5,390	4,120	*4,060	2,990	*3,260	2,260	*2,740	1,740	*2,380	1,360	*1,570	1,070	1,930	960	14.42
-3.0m	kg	*8,230	5,990	*5,780	3,920	*4,370	2,830	*3,490	2,140	*2,900	1,660	*2,490	1,310			2,030	1,020	13.92
-4.5m	kg	*8,310	5,940	*5,950	3,830	*4,540	2,740	*3,630	2,070	*3,000	1,620	2,510	1,290			*2,210	1,140	13.20
-6.0m	kg	*8,100	6,010	*5,900	3,840	*4,550	2,730	*3,640	2,060	*2,970	1,620					*2,340	1,330	12.25
-7.5m	kg	*7,580	6,180	*5,610	3,930	*4,350	2,790	*3,460	2,120	*2,740	1,690					*2,460	1,670	10.97
-9.0m	kg	*6,650	6,460	*4,980	4,110	*3,840	2,940	*2,930	2,260									
-10.5m	kg	*5,040	*5,040	*3,730	*3,730													

1. Lifting capacity is 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 located on the back of the bucket.
4. (*) indicates the load limited by hydraulic capacity.

BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS

All buckets are welded with high-strength steel.



Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		5,680 Boom				8,200 Boom
					2,000 Arm	2,400 Arm	2,920 Arm	3,900 Arm	6,300 Arm
0.51	0.45	700	820	570	●	●	●	■	–
0.80	0.70	1,000	1,120	700	●	●	●	▲	–
0.92	0.80	1,150	1,270	770	●	●	●	▲	–
1.10	0.96	1,320	1,440	830	●	●	■	▲	–
1.20	1.00	1,400	1,520	850	●	■	▲	–	–
1.34	1.15	1,550	1,670	920	■	■	▲	–	–
◆ 0.74	0.65	985	–	770	●	●	●	▲	–
◆ 0.90	0.80	1,095	–	810	●	●	●	▲	–
◆ 1.05	0.92	1,290	–	890	●	●	■	▲	–
● 0.87	0.75	1,140	–	900	●	●	●	▲	–
● 1.20	1.00	1,410	–	1,030	■	▲	–	–	–
■ 0.75	0.65	1,790	–	880	●	●	■	▲	–
★ 0.52	0.45	935	1,035	460	–	–	–	–	■

- ◆ Heavy duty bucket
- Rock-Heavy duty bucket
- Slope finishing bucket
- ★ Long reach bucket
- : Applicable for materials with density of 2,000 kg /m³ or less
- : Applicable for materials with density of 1,600 kg /m³ or less
- ▲ : Applicable for materials with density of 1,100 kg /m³ or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 5.68m(18'8"), 8.20m(26'11") Booms and 2.0m(6'7"), 2.4m(7'10"), 2.92m(9'7"), 3.90m(12'10"), 6.3m(20'8"). Arms are available.

DIGGING FORCE								
Boom	Length	mm (ft.in)	5,680 (18' 8")				8,200	Remark
	Weight	kg (lb)	1,950 (4,300)				2,350	
Arm	Length	mm (ft.in)	2,000	2,400	2,920	3,900	6,300	
	Weight	kg (lb)	975	1,045	1,095	1,295	1,330	
Bucket digging force	SAE	kN	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	133.4 [144.8]	72.6	[] : Power Boost
	ISO	kN	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	152.0 [165.0]	83.4	
Arm crowd force	SAE	kN	144.2 [156.5]	119.6 [129.9]	102.0 [110.7]	84.3 [91.6]	49.0	
	ISO	kN	151.0 [164.0]	125.5 [136.3]	106.9 [116.1]	87.3 [94.8]	50.0	

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

STANDARD / OPTION

STANDARD EQUIPMENT
ISO Standard cabin
All-weather steel cab with 360O 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
Pilot-operated slidable joystick
Four front working lights (2 boom mounted, 2 front frame mounted)
Electric horn
Batteries (2 x 12V x 100 AH)
Battery master switch
Removable clean-out dust net for cooler
Automatic swing brake
Removable reservoir tank
Fuel pre-filter
Track shoes (600mm, 24")
Track rail guard
Accumulator for lowering work equipment
Electric transducer

OPTIONAL EQUIPMENT
Fuel filler pump (35 L/min)
Beacon lamp
Single-acting piping kit (breaker, etc.)
Double-acting piping kit (clamshell, etc.)
Quick coupler
Travel alarm
Booms
5.68 m, 18' 8"
8.2 m, 26' 11" Long reach
Arms
2.0 m, 6' 7"
2.4 m, 7' 10"
2.92 m, 9' 7"
3.9 m, 12' 10"
6.3 m, 20' 8" Long reach
Cabin FOPS/FOG (ISO/DIS 10262 Level II)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
Cabin guard-front
Wire net
Fine net
Cabin ROPS (ISO 12117-2)
ROPS (Roll Over Protective Structure)
*R220LC-9S / 220-9S, R300LC-9S, R330LC-9S Only
Cabin lights
Cabin front window rain guard
Sun visor
Track shoes
Triple grousers shoe (700 mm, 28")
Triple grousers shoe (800 mm, 32")
Triple grousers shoe (900 mm, 36")
Double grousers shoe (700 mm, 28")
Full track rail guard - High walk only
Pre-heating system, coolant
Tool kit
Rearview camera
Seat
Mechanical suspension seat with heater
Hi-mate (Remote Management System)
Fuel warmer
Air compressor
Rear work lamp
Precleaner
4 Pattern changer
Cabin Rain Guard
MCV Under Cover
Boom holding system
Arm holding system
Lower frame under cover

- * 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.

MEMO