

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
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 slideable joystick
Four front working lights
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
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
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
Climate control
Air conditioner only
Heater only
Cabin FOPS/FOG (ISO/DIS 10262)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
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 (710 mm, 28")
Full 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)
Fuel warmer
Viscous fan clutch

We build a better future

Robex
220LC-9S
220LC-9SH

With Tier 2 Engine installed



*Photo may include optional equipment.

Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

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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 220LC-9S
220LC-9SH**



*Photo may include optional equipment.

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 4 solenoid valves, 1 EPPR valves, 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
New joystick consoles - now adjustable in height by way of dial at bottom
Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster

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

3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference

Enhanced self-diagnostic features with GPS / 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!

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

Undercarriage

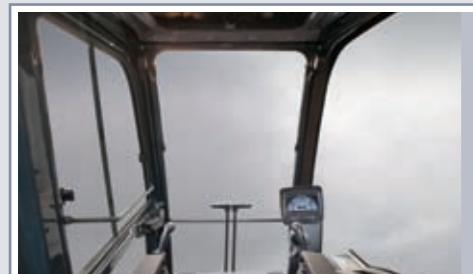
Sealed track chain (urethane seals) / Standard track rail guard / Comfortable bolt-on steps
Large upper roller cut-outs for debris clean-out / Tapered side frames for debris clean-out / Grease-type track tensioner

Preference

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



*Photo may include optional equipment.



Wide Cabin with Excellent Visibility

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

Operator Comfort

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



Reduced Stress

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



Operator - Friendly Cluster

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



Precision

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



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 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 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.

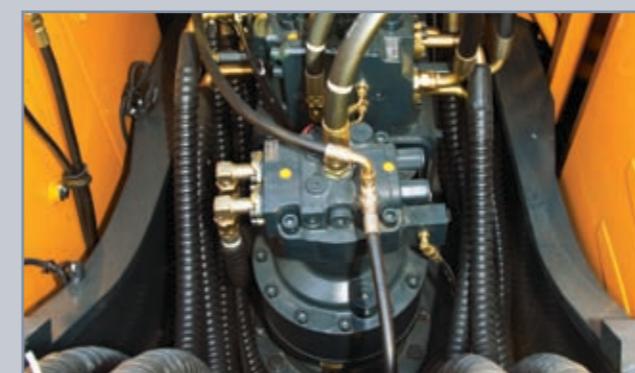
User Mode

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.

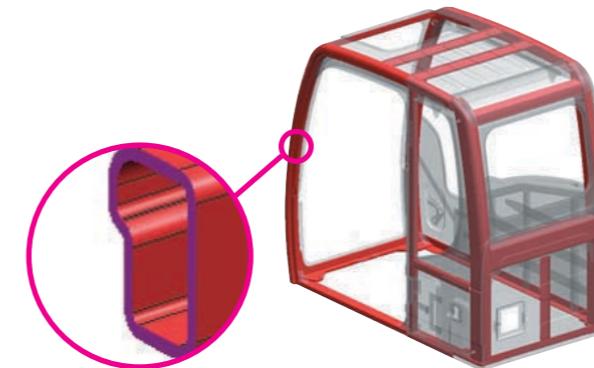
Performance

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



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.



CUMMINS B5.9-C ENGINE

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

A more reliable way to reach your dream.

The Cummins B5.9-C 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 B5.9-C 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.

HYUNDAI D6BV-C ENGINE

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

Reliability you can depend on.

When you have a tough job to do, you need power precision and flexibility of Hyundai D6BV-C engine. It is built to withstand the toughest work environment. Bearings have more surface area to handle higher loads with greater durability. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the D6BV-C is built stronger to last longer.

The D6BV-C engine is capable of reaching Tier 2 emission standards without electronic engine controls. It uses durable mechanical IN-LINE fuel injection system. You get a proven power plant that meets ecological concerns, without paying a premium for technology you don't need.



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 three-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.



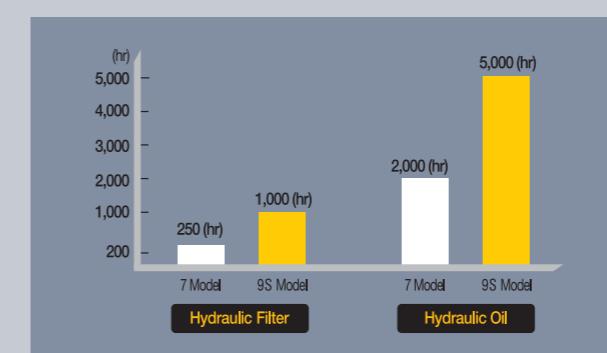
Hi-mate (Remote Management System)

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.



Extended Life Components

9S Series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-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 / R220LC-9S

MODEL		CUMMINS B5.9-C	
Type		Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged, charger air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	150 HP (112 kW) at 1,950 rpm
	DIN	J1349 (net)	143 HP (107 kW) at 1,950 rpm
6271/1 (gross)		152 PS (112 kW) at 1,950 rpm	
		6271/1 (net)	145 PS (107 kW) at 1,950 rpm
Max. torque		62.6kgf-m (453lbf-ft)/1,500rpm	
Bore X stroke		102mm X 120mm (4.02" X 4.72")	
Piston displacement		5,880cc (359 in ³)	
Batteries		2 X 12V X 100AH	
Starting motor		24V, 4.5kW	
Alternator		24V, 70Amp	

ENGINE / R220LC-9SH

MODEL		HYUNDAI D6BV-C	
Type		Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged, charger air cooled	
Rated flywheel horse power	SAE	J1995 (gross)	148 HP (110 kW) at 1,950 rpm
	DIN	J1349 (net)	143 HP (107 kW) at 1,950 rpm
6271/1 (gross)		150 PS (110 kW) at 1,950 rpm	
		6271/1 (net)	145 PS (107 kW) at 1,950 rpm
Max. torque		58kgf-m (420lbf-ft)/1,600rpm	
Bore X stroke		118mm X 115mm (4.65" X 4.53")	
Piston displacement		7,545cc (460 in ³)	
Batteries		2 X 12V X 100AH	
Starting motor		24V, 5kW	
Alternator		24V, 70Amp	

HYDRAULIC SYSTEM

MAIN PUMP		Variable displacement tandem axis piston pumps	
Type		Variable displacement tandem axis piston pumps	
Rated flow	R220LC-9S	2 X 222 L/min (58.7 US gpm/48.9 UK gpm)	
	R220LC-9SH	2 X 216.5 L/min (57.2 US gpm/47.6 UK gpm)	

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

No. of cylinder	Boom: 2-120 X 1,290 mm (4.7" X 50.8")
bore X stroke	Arm: 1-140 X 1,510 mm (5.5" X 59.4")

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)	R220LC-9S 5.5 km/hr (3.4mph) / 3.8 km/hr (2.4mph) R220LC-9SH 5.5 km/hr (3.4mph) / 3.7 km/hr (2.3mph)
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 piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	R220LC-9S 11.1 rpm R220LC-9SH 12 rpm

COOLANT & LUBRICANT CAPACITY

Refilling		liter	US gal	UK gal
Fuel tank		400.0	105.7	88.0
Engine coolant		35.0	9.2	7.7
Engine oil	R220LC-9S	24.0	6.3	5.3
	R220LC-9SH	16.3	3.6	4.3
Swing device-gear oil		5.0	1.3	1.1
Final drive(each)-gear oil		5.8	2.0	1.0
Hydraulic system(including tank)		275.0	72.6	60.5
Hydraulic tank		160.0	42.3	35.2

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.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	49 EA
No. of carrier roller on each side	2 EA
No. of track roller on each side	9 EA
No. of rail guard on each side	2 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	5,850kg (12,900lb)
Boom (with arm cylinder)	1,950kg (4,300lb)
Arm (with bucket cylinder)	1,095kg (2,410lb)

OPERATING WEIGHT

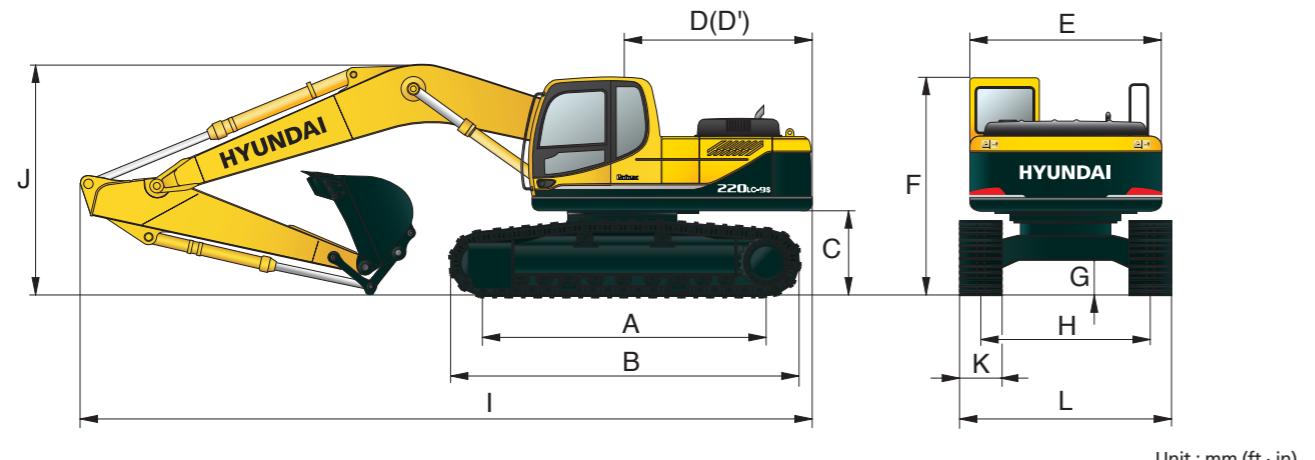
Shoes	Operating weight	Ground pressure	
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	600 mm (24")	R220LC-9S 21,900 (48,280)	0.46 (6.54)
	700 mm (28")	R220LC-9S 22,250 (49,050)	0.40 (5.69)
Grouser	800 mm (32")	R220LC-9S H/W 23,710 (52,270)	0.43 (6.11)
	900 mm (36")	R220LC-9S 22,700 (50,220)	0.32 (4.55)
Double grouser	710 mm (28")	R220LC-9S H/W 24,135 (53,210)	0.43 (6.11)

BUCKETS

All buckets are welded with high-strength steel.

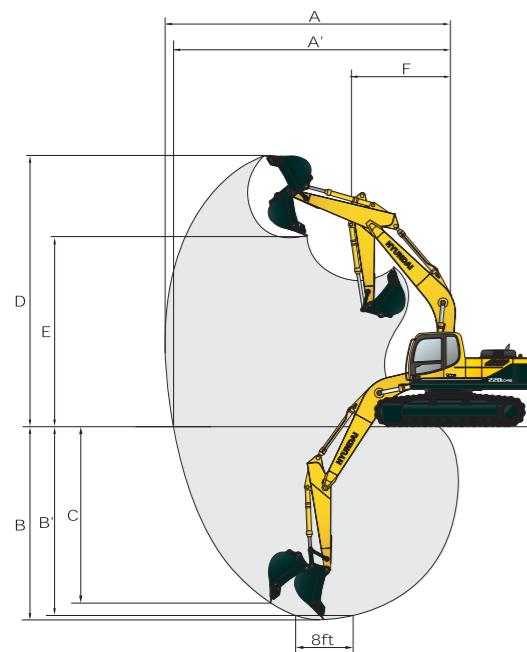
Dimensions & Working Range

R220LC-9S / 9SH DIMENSIONS



		Unit : mm (ft · in)			
A Tumbler distance	3,650 (11' 12")	Boom length	5,680 (18' 8")	8,200 (26' 11")	
B Overall length of crawler	4,440 (14' 7")	Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
C Ground clearance of counterweight	1,060 (3' 6")		3,900 (12' 10")	6,300 (20' 8")	
D Tail swing radius	2,830 (9' 3")	I Overall length	9,650 (31' 8")	9,570 (31' 5")	9,530 (31' 3")
D' Rear-end length	2,770 (9' 1")		9,520 (31' 3")	12,030 (39' 6")	
E Overall width of upperstructure	2,740 (8' 12")	J Overall height of boom	3,200 (10' 6")	3,110 (10' 2")	3,030 (9' 11")
F Overall height of cab	2,920 (9' 7")	K Track shoe width	600 (24")	700 (28")	800 (32")
G Min. ground clearance	480 (1' 7")				900 (36")
H Track gauge	2,390 (7' 10")	L Overall width	2,990 (9' 10")	3,090 (10' 2")	3,190 (10' 6")
					3,290 (10' 10")

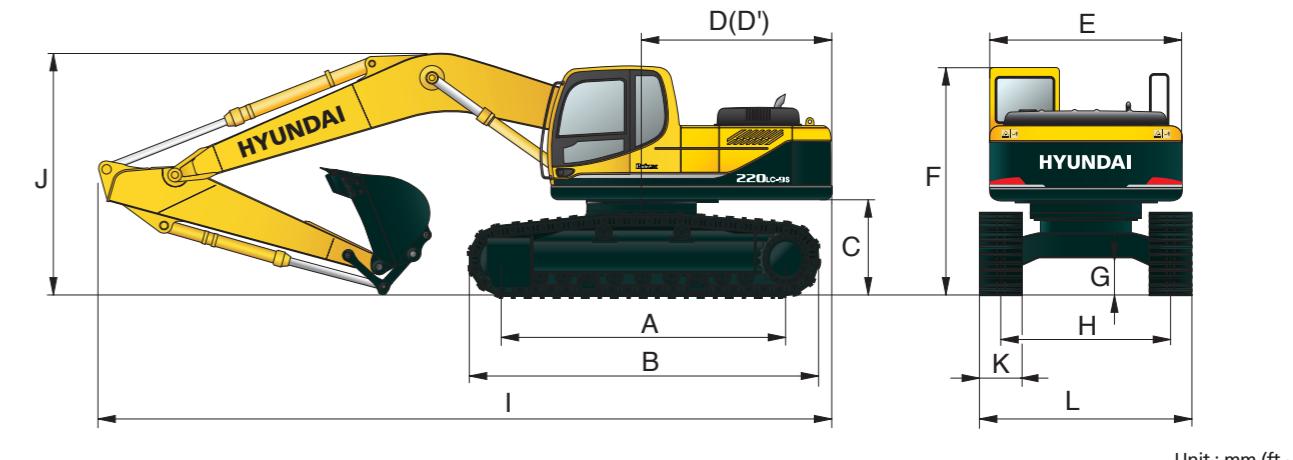
R220LC-9S / 9SH WORKING RANGE



	Unit : mm (ft · in)				
	5,680 (18' 8")				8,200 (26' 11")
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")	6,300 (20' 8")
A Max. digging reach	9,140 (29' 12")	9,500 (31' 2")	9,980 (32' 9")	10,910 (35' 10")	15,220 (49' 11")
A' Max. digging reach on ground	8,960 (29' 5")	9,330 (30' 7")	9,820 (32' 3")	10,770 (35' 4")	15,120 (49' 7")
B Max. digging depth	5,820 (19' 1")	6,220 (20' 5")	6,730 (22' 1")	7,720 (25' 4")	11,760 (38' 7")
B' Max. digging depth (8' level)	5,580 (18' 4")	6,010 (19' 9")	6,560 (21' 6")	7,580 (24' 10")	11,650 (38' 3")
C Max. vertical wall digging depth	5,280 (17' 4")	5,720 (18' 9")	6,280 (20' 7")	7,240 (23' 9")	9,610 (31' 6")
D Max. digging height	9,140 (29' 12")	9,340 (30' 8")	9,600 (31' 6")	10,110 (33' 2")	12,550 (41' 2")
E Max. dumping height	6,330 (20' 9")	6,520 (21' 5")	6,780 (22' 3")	7,290 (23' 11")	10,280 (33' 9")
F Min. swing radius	3,750 (12' 4")	3,740 (12' 3")	3,740 (12' 3")	3,650 (11' 12")	4,870 (15' 12")

Dimensions & Working Range

R220LC-9S / 9SH HIGH WALKER DIMENSIONS



		Unit : mm (ft · in)			
A Tumbler distance	3,650 (11' 12")	Boom length	5,680 (18' 8")	8,200 (26' 11")	
B Overall length of crawler	4,440 (14' 7")	Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")
C Ground clearance of counterweight	1,240 (4' 1")	I Overall length	9,650 (31' 8")	9,550 (31' 4")	9,470 (31' 1")
D Tail swing radius	2,840 (9' 4")	D' Rear-end length	2,770 (9' 1")	2,770 (9' 1")	2,770 (9' 1")
E Overall width of upperstructure	2,740 (8' 12")	J Overall height of boom	3,290 (10' 10")	3,170 (10' 5")	3,060 (10' 0")
F Overall height of cab	3,100 (10' 2")	K Track shoe width	Type	Triple grouser	
G Min. ground clearance	660 (2' 2")	Width	600 (24")	700 (28")	800 (32")
H Track gauge	2,795 (9' 2")	L Overall width	3,395 (11' 2")	3,495 (11' 6")	3,595 (11' 10")
					710 (28")

R220LC-9S / 9SH HIGH WALKER WORKING RANGE

	Unit : mm (ft · in)				
	5,680 (18' 8")				8,200 (26' 11")
Arm length	2,000 (6' 7")	2,400 (7' 10")	2,920 (9' 7")	3,900 (12' 10")	6,300 (20' 8")
A Max. digging reach	9,140 (29' 12")	9,500 (31' 2")	9,980 (32' 9")	10,910 (35' 10")	15,220 (49' 11")
A' Max. digging reach on ground	8,920 (29' 3")	9,290 (30' 6")	9,820 (32' 3")	10,770 (35' 4")	15,120 (49' 7")
B Max. digging depth	5,630 (18' 6")	6,010 (19' 9")	6,560 (21' 6")	7,580 (24' 10")	11,760 (38' 7")
B' Max. digging depth (8' level)	5,390 (17' 8")	5,820 (19' 1")	6,360 (20' 11")	7,390 (24' 3")	11,650 (38' 3")
C Max. vertical wall digging depth	5,090 (16' 8")	5,630 (18' 6")	6,100 (20' 0")	7,050 (23' 2")	9,610 (31' 6")
D Max. digging height	9,330 (30' 7")	9,530 (31' 3")	9,780 (32' 1")	10,300 (33' 10")	12,550 (41' 2")
E Max. dumping height	6,520 (21' 5")	6,710 (22' 0")	6,960 (22' 10")	7,480 (24' 6")	10,280 (33' 9")
F Min. swing radius	3,750 (12' 4")	3,740 (12' 3")	3,740 (12' 3")	3,650 (11' 12")	4,870 (15' 12")

Lifting Capacity

R220LC-9S / 9SH

Boom : 5.68m (18' 8") / Arm : 2.0 m (6' 7") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)	kg	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
7.5 m (25 ft)	kg lb							*4010	*4010	6.65
6.0 m (20 ft)	kg lb							*8840	*8840	(21.8)
4.5 m (15 ft)	kg lb			*5730	*5730	*4860	4630		*4060	3040
3.0 m (10 ft)	kg lb			*12630	*12630	*10710	10210		*8950	6700
1.5 m (5 ft)	kg lb								*9240	5600
Ground	kg									27.7
Line	lb									
-1.5 m (-5 ft)	kg lb	*13990	12260	*9630	6070	*6990	3910		4820	2750
-3.0 m (-10 ft)	kg lb	*12500	12500	*8820	6180	*6350	3990		3750	2370
-4.5 m (-15 ft)	kg lb	*9460	27560	*19440	13620	*14000	8800		4850	3650
		*20860		*20860					*10690	8050
										(21.7)

Boom : 5.68m (18' 8") / Arm : 2.40 m (7' 10") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)	kg	Load radius						At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity
										Reach
7.5 m (25 ft)	kg lb							*3700	3640	7.15
6.0 m (20 ft)	kg lb							*8160	8020	(23.5)
4.5 m (15 ft)	kg lb							*4010	*4010	
3.0 m (10 ft)	kg lb							*8840	*8840	
1.5 m (5 ft)	kg lb							*4490	*4490	
Ground	kg							*9900	*9900	
Line	lb									
-1.5 m (-5 ft)	kg lb	*13980	12320	*15230	13380	*15410	8620		3130	2340
-3.0 m (-10 ft)	kg lb	*12500	12500	*8820	6180	*6350	3990		3900	2880
-4.5 m (-15 ft)	kg lb	*9460	27560	*19440	13620	*14000	8800		3750	2370
		*20860		*20860						

Boom : 5.68m (18' 8") / Arm : 2.92 m (9' 7") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)	kg	Load radius						At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity
										Reach
7.5 m (25 ft)	kg lb							*3360	3150	7.78
6.0 m (20 ft)	kg lb							*7410	6940	(25.5)
4.5 m (15 ft)	kg lb							*2340	*2340	
3.0 m (10 ft)	kg lb							*5160	*5160	
1.5 m (5 ft)	kg lb							*4010	*4010	
Ground	kg							*8840	*8840	
Line	lb									
-1.5 m (-5 ft)	kg lb	*9760	12520	*13510	12060	*9650	6000	*6960	3850	
-3.0 m (-10 ft)	kg lb	*14150	14150	*13240	12280	*9090	6080	*6590	3900	
-4.5 m (-15 ft)	kg lb	*10630	10630	*7400	6330					
		*23440		*23440						

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.

Lifting Capacity

R220LC-9S / 9SH

Boom : 5.68m (18' 8") / Arm : 3.90 m (12' 10") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)	kg	Load radius						At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity
										Reach
9.0 m (30 ft)	kg lb									
7.5 m (25 ft)	kg lb									
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	kg									
Line	lb									
-1.5 m (-5 ft)	kg lb	*5260	12660	*10600	10600	*8250	6130	*5860	3910	*4650
-3.0 m (-10 ft)	kg lb	*11600								

Lifting Capacity

R220LC-9S / 9SH HIGH WALKER

Boom : 5.68m (18' 8") / Arm : 3.90 m (12' 10") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)	kg lb	Load radius						At max. reach		
		1.5 m (5 ft)	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)
9.0 m (30 ft)	kg lb							*2750 *6060	*2750 *6060	7.86 (25.8)
7.5 m (25 ft)	kg lb							*2220 *4890	*2220 *4890	9.06 (29.7)
6.0 m (20 ft)	kg lb							*2850 *6280	*2850 *6280	9.85 (32.3)
4.5 m (15 ft)	kg lb							*3140 *6920	*3140 *4810	10.33 (33.9)
3.0 m (10 ft)	kg lb							*4060 *8950	*4060 *8950	10.54 (34.6)
1.5 m (5 ft)	kg lb							*11630 *25640	*11630 *25640	10.50 (34.4)
Ground	kg	*5540	*5540	*10590	*10590	*8400	8100	*5960	5130	*4710
Line	lb	*12210	*12210	*23350	*23350	*18520	17860	*13140	11310	*10380
-1.5 m (-5 ft)	kg lb	*7800	*7800	*11920	*11920	*9220	7800	*6540	4940	*5060
-3.0 m (-10 ft)	kg lb	*10330	*10330	*14530	*14530	*9340	7730	*6690	4870	5060
-4.5 m (-15 ft)	kg lb	*13390	*13390	*13120	*13120	*8690	7840	*6230	4940	*4030
-6.0 m (-20 ft)	kg lb	*29520	*29520	*28920	*28920	*19160	17280	*13730	10890	*8880
		*10090	*10090	*6720	*6720					8380
		*22240	*22240	*14820	*14820					(24.3)

Boom : 5.68m (18' 8") / Arm : 2.40 m (7' 10") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 800mm (32") triple grouser

Load point height m (ft)	kg lb	Load radius						At max. reach		
		1.5 m (5 ft)	3.0 m (10 ft)	4.5 m (15 ft)	6.0 m (20 ft)	7.5 m (25 ft)	Capacity	Reach	m (ft)	
7.5 m (25 ft)	kg lb							*3700 *8160	*3700 *8160	7.31 (24.0)
6.0 m (20 ft)	kg lb							*4050 *8930	*4050 *8930	8.30 (27.2)
4.5 m (15 ft)	kg lb							*5360 *11820	*5360 *11820	8.87 (29.1)
3.0 m (10 ft)	kg lb							*7130 *15720	*7130 *15720	9.12 (29.9)
1.5 m (5 ft)	kg lb							*8720 *19220	*8580 *18920	9.08 (29.8)
Ground	kg	*9350	*9350	*9550	8290	*6790	5310	*5320	3780	*4340
Line	lb	*20610	*20610	*21050	18280	*14970	11710	*11730	8330	9570
-1.5 m (-5 ft)	kg lb	*10290	*10290	*14180	*14180	*9620	8230	*6950	5240	*4650
-3.0 m (-10 ft)	kg lb	*14760	*14760	*14790	*14790	*8950	8330	*6470	5310	*4690
-4.5 m (-15 ft)	kg lb	*32540	*32540	*28640	*28640	*19730	18360	*14260	11710	*10340
		*10150	*10150	*7020	*7020					9850
		*22380	*22380	*15480	*15480					(22.8)

Boom : 5.68m (18' 8") / Arm : 2.92 m (9' 7") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 800mm (32") triple grouser

Load point height m (ft)	kg lb	Load radius						At max. reach		
		1.5 m (5 ft)	3.0 m (10 ft)	4.5 m (15 ft)	6.0 m (20 ft)	7.5 m (25 ft)	Capacity	Reach	m (ft)	
7.5 m (25 ft)	kg lb							*3370 *7430	*3370 *7430	7.93 (26.0)
6.0 m (20 ft)	kg lb							*2700 *5950	*2700 *5950	8.83 (29.0)
4.5 m (15 ft)	kg lb							*4110 *9060	*4110 *9060	9.37 (30.7)
3.0 m (10 ft)	kg lb							*10440 *23020	*6440 *14110	9.60 (31.5)
1.5 m (5 ft)	kg lb							*8610 *18980	*8150 *18980	9.57 (31.4)
Ground	kg	*9870	*9870	*9260	8290	*6560	5300	*5150	3750	3940
Line	lb	*21760	*21760	*20410	18280	*14460	11680	*11350	8270	8690
-1.5 m (-5 ft)	kg lb	*9210	*9210	*13090	*13090	*9600	8150	*6880	5300	3690
-3.0 m (-10 ft)	kg lb	*12660	*12660	*13780	*13780	*9230	8200	*6670	5200	*4470
-4.5 m (-15 ft)	kg lb	*27910	*27910	*30380	*30380	*20350	18080	*14700	11460	*9850
		*11470	*11470	*7860	*7860					8400
		*25290	*25290	*17330	*17330					(24.9)

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.

Lifting Capacity

R220LC-9S / 9SH HIGH WALKER

Boom : 5.68m (18' 8") / Arm : 3.90 m (12' 10") / Bucket : 0.92 m³ (1.20 yd³) SAE heaped / Shoe : 800mm (32") triple grouser

Load point height m (ft)	kg lb	Load radius						At max. reach		
		1.5 m (5 ft)	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)
9.0 m (30 ft)	kg lb							*2750 *6060	*2750 *6060	7.86 (25.8)
7.5 m (25 ft)	kg lb							*2220 *4890	*2220 *4890	9.06 (29.7)
6.0 m (20 ft)	kg lb							*2850 *6280	*2850 *6280	9.85 (32.3)
4.5 m (15 ft)	kg lb							*3140 *6920	*3140 *4810	10.33 (33.9)
3.0 m (10 ft)	kg lb							*4060 *8950	*4060 *8950	10.54 (34.6)
1.5 m (5 ft)	kg lb							*11630 *25640	*11630 *25640	10.50<br/