



Robex

330LC-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 330LC-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 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock, arm regeneration

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 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

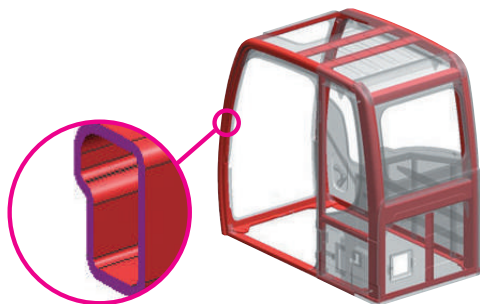
9A series is designed for maximum performance to keep the operator working productively.



*Photo may include optional equipment.

Track Rail Guard & Adjusters

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

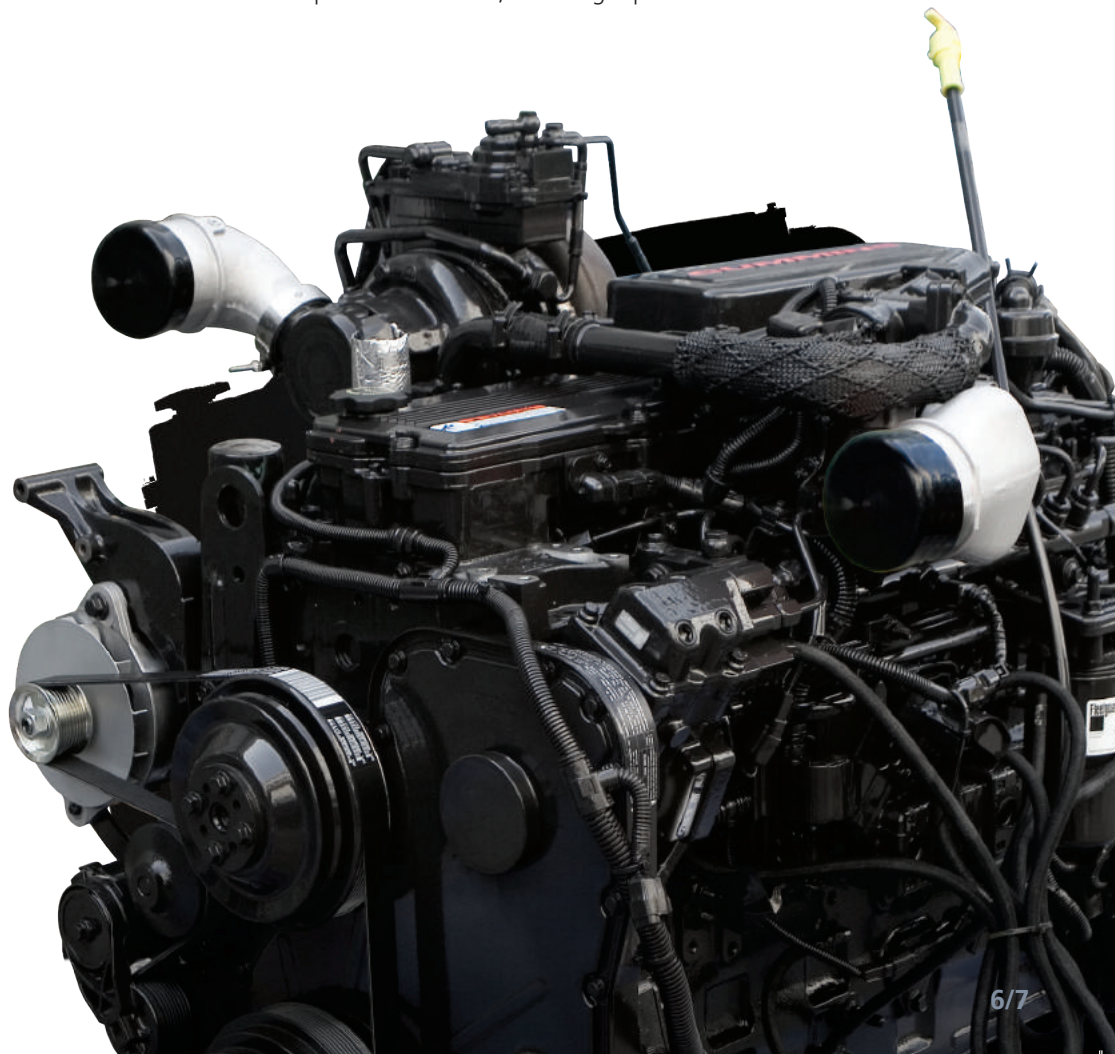


Structure Strength

The 9A 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 QSL9 Engine

Built on a heritage of reliability and durability, Cummins QSL9 for Tier 4 Interim/Stage IIIB regulations takes a major step forward with the introduction of an Xtra-High Pressure Injection (XPI) fuel system. This heavy-duty system delivers a constant stream of pressurized fuel across all engine rpm speeds, providing cleaner combustion and improved engine response with multiple injections every combustion cycle. The fuel system is complemented by Cummins VGT Turbocharger, which continuously varies the airflow to precisely match engine rpm and load demands for optimal performance. Each component and system is carefully matched and managed through a more robust Electronic Control Module (ECM) and the Cummins Particulate Filter. The total integration and optimization of all elements working together results in better performance, lower maintenance and better fuel economy than the previous model. The QSL9 for Tier 4 Interim/Stage IIIB is designed to provide the lowest cost of operation in its class, delivering superior lifetime value.



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 of 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.

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.

Operator Comfort



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 talk on the phone with the hands-free cell phone feature. Also, the newly designed optional remote control offers mobile hands-free bluetooth and hands-free radio cable function.



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 and toggle switches 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 the 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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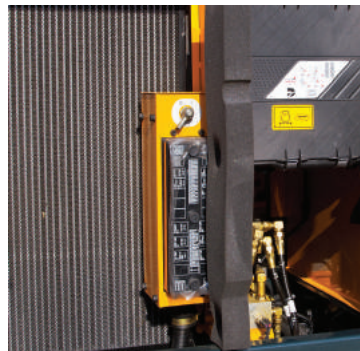
Fuel Efficiency

9A series excavators are engineered to be extremely fuel efficient. New innovations like the variable speed fan clutch, 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 with 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 QSL9	
Type		Water-cooled, 4-cycle Diesel, 6-cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission	
Rated flywheel horse power	SAE	J1995 (gross)	282 HP (210 kW)/ 1,750 rpm
		J1349 (net)	268 HP (200 kW)/ 1,750 rpm
	DIN	6271/1 (gross)	286 PS (210 kW)/ 1,750 rpm
		6271/1 (net)	272 PS (200 kW)/ 1,750 rpm
Max. torque		123.7 kgf-m (895 lbf-ft)/ 1,500 rpm	
Bore X stroke		114 x 145 mm (4.5" x 5.7")	
Piston displacement		8,900 cc (543 in ³)	
Batteries		2 x 12 V x 160 AH	
Starting motor		24 V, 7.8kW	
Alternator		24 V, 95 Amp	

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axial piston pumps
Max. flow	2 X 270 L/min (71.3 US gpm / 59.4 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	350 kgf/cm ² (4,978 psi)
Travel	350 kgf/cm ² (4,978 psi)
Power boost (boom, arm, bucket)	380 kgf/cm ² (5,404 psi)
Swing circuit	300 kgf/cm ² (4,267 psi)
Pilot circuit	40 kgf/cm ² (568 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-150 X 1,480 mm (5.9" X 58.3")
	Arm: 1-160 X 1,685 mm (6.3" X 66.3")
	Bucket: 1-140 X 1,285 mm (5.5" X 50.6")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	29,500 kgf (65,040 lbf)
Max. travel speed (high / low)	5.5 km/hr (3.4 mph) / 3.3 km/hr (2.1 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	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.4 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	500	132.1	110.0
Engine coolant	55	14.5	12.1
Engine oil	30	7.9	6.6
Swing device	11	1.6	1.3
Final drive (each)	5.5	2.1	1.8
Hydraulic system (including tank)	330	87.2	72.6
Hydraulic tank	190	50.2	41.8

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	48
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 6,450mm (21' 2") boom, 3,200mm (10' 6") arm, SAE heaped 1.44m³ (1.88 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	8,120 kg (17,900 lb)
Boom (with arm cylinder)	3,030 kg (6,680 lb)
Arm (with bucket cylinder)	1,770 kg (3,900 lb)

OPERATING WEIGHT				
Shoes Type	Width mm (in)	Operating weight		Ground pressure kgf/cm ² (psi)
		kg (lb)		
Triple grouser	600 mm (24")	R330LC-9A	33,000 (72,750)	0.63 (8.96)
		R300NLC-9A	32,800 (72,310)	0.63 (8.96)
		R330LC-9A H/W	35,500 (78,260)	0.68 (9.67)
	700 mm (28")	R330LC-9A	33,600 (74,070)	0.55 (7.83)
		R330LC-9A H/W	36,100 (79,590)	0.59 (8.39)
		R330LC-9A	34,000 (74,960)	0.49 (6.57)
800 mm (32")	R330LC-9A H/W	36,500 (80,470)	0.50 (7.14)	
	R330LC-9A	34,400 (75,840)	0.44 (6.26)	
Double grouser	700 mm (28")	R330LC-9A H/W	37,010 (81,590)	0.60 (8.53)

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		6,450 (21' 2") Boom				6,150 (20' 2") Boom
					2,200 (7' 3") Arm	2,500 (8' 2") Arm	3,200 (10' 6") Arm	4,050 (13' 3") Arm	
0.90 (1.18)	0.80 (1.05)	950 (37.4)	1,070 (42.1)	870 (1,920)	●	●	●	●	●
1.14 (1.49)	1.00 (1.31)	1,110 (43.7)	1,230 (48.4)	980 (2,160)	●	●	●	●	●
1.44 (1.88)	1.25 (1.63)	1,380 (54.3)	1,500 (59.1)	1,110 (2,450)	●	●	●	■	●
1.74 (2.28)	1.50 (1.96)	1,620 (63.8)	1,740 (68.5)	1,230 (2,710)	●	●	■	▲	●
2.10 (2.75)	1.80 (2.35)	1,910 (75.2)	2,030 (79.9)	1,370 (3,020)	■	■	▲	-	■
◆ 1.44 (1.88)	1.25 (1.63)	1,470 (57.9)	-	1,380 (3,040)	●	●	■	▲	●
● 1.44 (1.88)	1.25 (1.63)	1,470 (57.9)	-	1,470 (3,240)	●	●	■	▲	●
● 1.73 (2.26)	1.50 (1.96)	1,710 (67.3)	-	1,610 (3,550)	■	■	▲	-	●

◆ 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. 6.15m(20' 2"), 6.45m(21' 2") Booms and 2.2m(7' 3"), 2.5m(8' 2"), 3.2m(10' 6"), 4.05m(13' 3")

Arms are available.

DIGGING FORCE

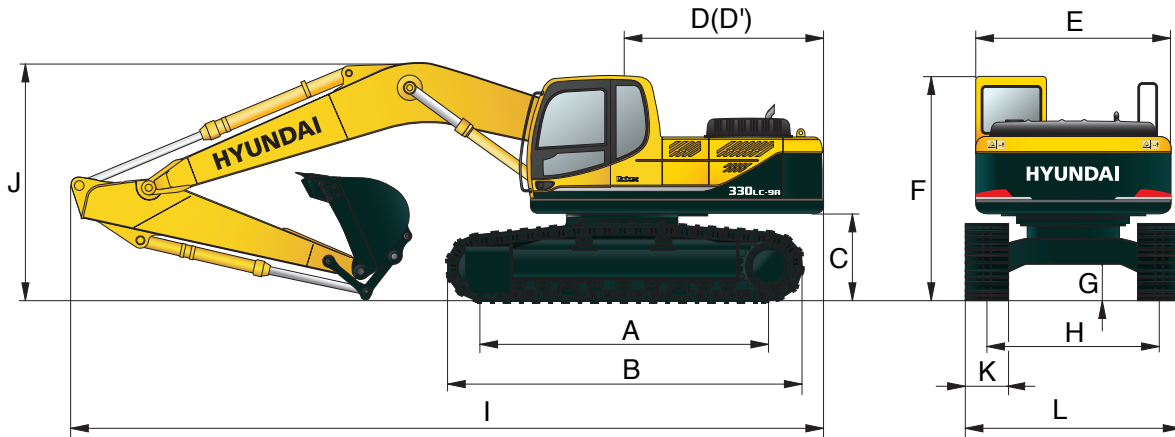
Boom	Length	mm (ft-in)	6,450 (21' 2")				Remarks
	Weight	kg (lb)	3,030 (6,680)				
Arm	Length	mm (ft-in)	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	[]: Power Boost
	Weight	kg (lb)	1,560 (3,440)	1,650 (3,640)	1,770 (3,900)	1,870 (4,120)	
Bucket digging force	SAE	kN	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	
		kgf	19,300 [20,950]	19,300 [20,950]	19,300 [20,950]	19,300 [20,950]	
		lbf	42,550 [46,200]	42,550 [46,200]	42,550 [46,200]	42,550 [46,200]	
	ISO	kN	211.8 [230.0]	211.8 [230.0]	211.8 [230.0]	211.8 [230.0]	
		kgf	21,600 [23,450]	21,600 [23,450]	21,600 [23,450]	21,600 [23,450]	
		lbf	47,620 [51,700]	47,620 [51,700]	47,620 [51,700]	47,620 [51,700]	
Arm crowd force	SAE	kN	196.6 [213.4]	178.9 [194.2]	143.2 [155.5]	119.6 [129.9]	
		kgf	20,000 [21,760]	18,200 [19,810]	14,600 [15,850]	12,200 [13,240]	
		lbf	44,190 [47,980]	40,220 [43,670]	32,190 [34,950]	26,890 [29,190]	
	ISO	kN	202.8 [220.2]	185.1 [201.0]	147.1 [159.7]	122.7 [133.3]	
		kgf	20,700 [22,450]	18,900 [20,500]	15,000 [16,290]	12,515 [13,590]	
		lbf	45,600 [49,510]	41,620 [45,190]	33,070 [35,900]	27,590 [29,950]	

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

Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R330LC-9A / R330NLC-9A DIMENSIONS

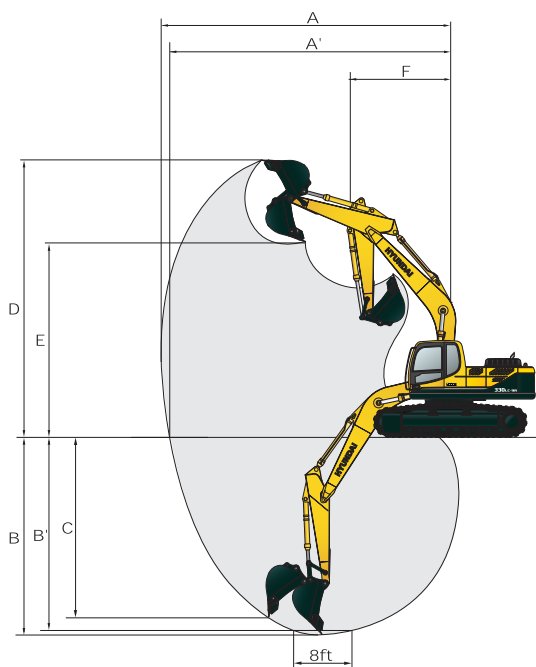


Unit : mm (ft · in)

A Tumbler distance	R330LC-9A	4,030 (13' 3")	Boom length				6,450 (21' 2")	6,150 (20' 2")			
	R330NLC-9A	4,030 (13' 3")	Arm length				2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	2,200 (7' 3")
B Overall length of crawler		4,940 (16' 2")	I Overall length				11,470 (37' 8")	11,340 (37' 2")	11,220 (36' 10")	11,220 (36' 10")	11,170 (36' 8")
C Ground clearance of counterweight		1,200 (3' 11")	J Overall height of boom				3,640 (11' 11")	3,670 (12' 0")	3,380 (11' 1")	3,860 (12' 8")	3,680 (12' 1")
D Tail swing radius		3,560 (11' 8")	K Track shoe width				600 (24")	700 (28")	800 (32")	900 (36")	
D' Rear-end length		3,504 (11' 6")	L Overall width				R330LC-9A	3,200 (10' 6")	3,300 (10' 10")	3,400 (11' 2")	3,500 (11' 16")
E Overall width of upperstructure		2,980 (9' 9")	R330NLC-9A				2,990 (9' 10")	-	-	-	-
F Overall height of cab		3,130 (10' 3")									
G Min. ground clearance		500 (1' 8")									
H Track gauge	R330LC-9A	2,680 (8' 10")									
	R330NLC-9A	2,390 (7' 10")									

R330LC-9A / R330NLC-9A WORKING RANGE

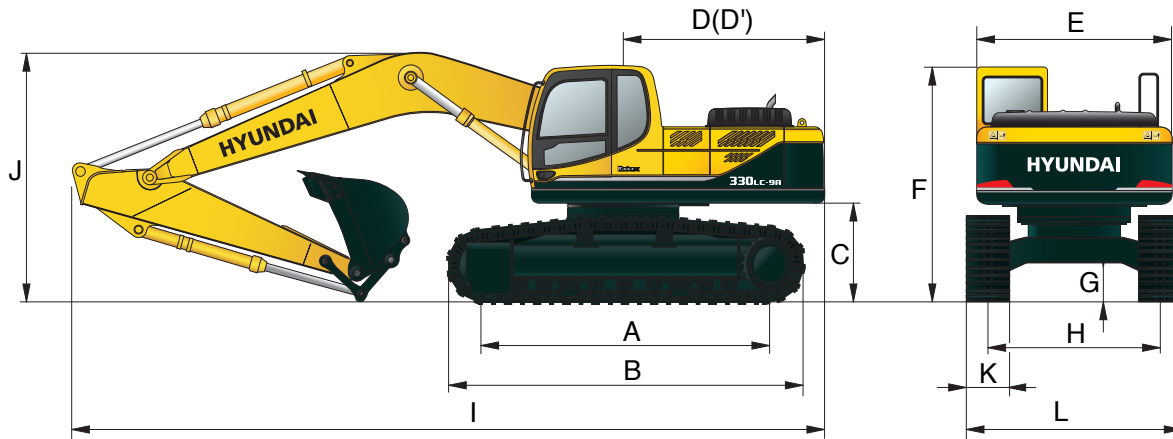
Unit : mm (ft · in)



Boom length	6,450 (21' 2")				6,150 (20' 2")
	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	2,200 (7' 3")
A Max. digging reach	10,330 (33' 11")	10,550 (34' 7")	11,140 (36' 7")	11,950 (39' 2")	10,020 (32' 10")
A' Max. digging reach on ground	10,110 (33' 2")	10,330 (33' 11")	10,940 (35' 11")	11,760 (38' 7")	9,800 (32' 2")
B Max. digging depth	6,370 (20' 11")	6,670 (21' 11")	7,370 (24' 2")	8,220 (26' 12")	6,160 (20' 3")
B' Max. digging depth (8° level)	6,160 (20' 3")	6,470 (21' 3")	7,210 (23' 8")	8,080 (26' 6")	5,950 (19' 6")
C Max. vertical wall digging depth	5,980 (19' 7")	5,920 (19' 5")	6,360 (20' 10")	7,260 (23' 10")	5,710 (18' 9")
D Max. digging height	10,220 (33' 6")	10,170 (33' 4")	10,310 (33' 10")	10,710 (35' 2")	9,940 (32' 7")
E Max. dumping height	7,050 (23' 2")	7,050 (23' 2")	7,240 (23' 9")	7,630 (25' 0")	6,780 (22' 3")
F Min. swing radius	4,700 (15' 5")	4,500 (14' 9")	4,470 (14' 8")	4,470 (14' 8")	4,520 (14' 10")

Dimensions & Working Range

R330LC-9A HIGH WALKER DIMENSIONS

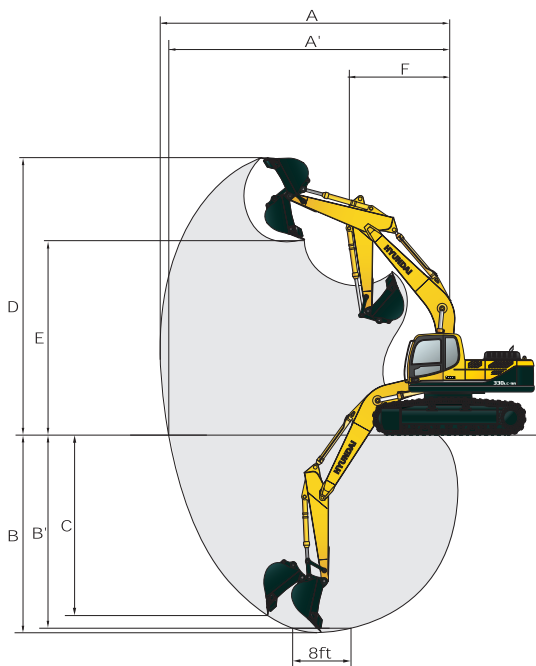


Unit : mm (ft · in)

A Tumbler distance	4,030 (13' 3")	Boom length	6,450 (21' 2")				6,150 (20' 2")
B Overall length of crawler	4,940 (16' 2")	Arm length	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	2,200 (7' 3")
C Ground clearance of counterweight	1,500 (4' 11")	I Overall length	11,460 (37' 7")	11,340 (37' 2")	11,150 (36' 7")	11,240 (36' 11")	11,160 (36' 7")
D Tail swing radius	3,560 (11' 8")	J Overall height of boom	3,740 (12' 3")	3,760 (12' 4")	3,360 (11' 0")	3,810 (12' 6")	3,780 (12' 5")
D' Rear-end length	3,504 (11' 6")	K Track shoe width	Type	Triple grouser			Double grouser
E Overall width of upperstructure	2,980 (9' 9")		Width	600 (24")	700 (28")	800 (32")	700 (28")
F Overall height of cab	3,390 (11' 1")	L Overall width	3,470 (11' 5")	3,570 (11' 9")	3,670 (12' 0")	3,570 (11' 9")	
G Min. ground clearance	765 (2' 6")						
H Track gauge	2,870 (9' 5")						

R330LC-9A HIGH WALKER WORKING RANGE

Unit : mm (ft · in)



Boom length	6,450 (21' 2")				6,150 (20' 2")
Arm length	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	2,200 (7' 3")
A Max. digging reach	10,330 (33' 11")	10,550 (34' 7")	11,140 (36' 7")	11,950 (39' 2")	10,020 (32' 10")
A' Max. digging reach on ground	10,040 (32' 11")	10,270 (33' 8")	10,880 (35' 8")	11,710 (38' 5")	9,730 (31' 11")
B Max. digging depth	6,100 (20' 0")	6,400 (20' 12")	7,100 (23' 4")	7,950 (26' 1")	5,880 (19' 3")
B' Max. digging depth (8' level)	5,890 (19' 4")	6,200 (20' 4")	6,940 (22' 9")	7,950 (26' 1")	5,680 (18' 8")
C Max. vertical wall digging depth	5,700 (18' 8")	5,650 (18' 6")	6,080 (19' 11")	6,980 (22' 11")	5,440 (17' 10")
D Max. digging height	10,500 (34' 5")	10,450 (34' 3")	10,590 (34' 9")	10,990 (36' 1")	10,220 (33' 6")
E Max. dumping height	7,330 (24' 1")	10,450 (34' 3")	7,520 (24' 8")	7,910 (25' 11")	7,060 (23' 2")
F Min. swing radius	4,700 (15' 5")	4,500 (14' 9")	4,470 (14' 8")	4,470 (14' 8")	4,520 (14' 10")

STANDARD EQUIPMENT

ISO Standard cabin

All-weather steel cab with 360° visibility
Safety glass windows
Rise-up 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

Door and cab locks, one key

Three outside rearview mirrors

Mechanical suspension seat with heater

Pilot-operated slidable joystick

Console box height adjust system

Four front working lights

Electric horn

Batteries (2 x 12V x 160 AH)

Battery master switch

Removable clean-out dust net for cooler

Automatic swing brake

Removable reservoir tank

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

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

Travel alarm

Booms

6.15 m, 20' 2"

6.45 m, 21' 2"

6.45 m, 21' 2" Heavy Duty

Arms

2.2 m, 7' 3"

2.5 m, 8' 2"

3.2 m, 10' 6"

3.2 m, 10' 6" Heavy Duty

4.05 m, 13' 3"

Cabin FOPS/FOG (ISO/DIS 10262) Level 2

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

Cabin ROPS (ISO 12117-2)

ROPS (Roll Over Protective Structure)

Cabin roof-steel cover

Cabin lights

Cabin front window rain guard

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

Lower frame under cover (additional)

Pre-heating system, coolant

Tool kit

Operator suit

Rearview camera

Seat

Adjustable air suspension seat with heater

Pattern change valve (2 patterns)

Hi-mate (Remote Management System)

- * 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