

We build a better future

**Robex**

# 290LC-9

Equipped with Tier 3 Engine



\*Photo may include optional equipment.



# Robex 290LC-9





# BUILT FOR MAXIMUM POWER, PERFORMANCE AND RELIABILITY.

Hyundai Heavy Industries enters a new chapter  
in construction equipment.



 **Hi-mate**  
Remote Management System

Hi-mate, Hyundai's newly developed remote management system, using GPS-satellite technology, provides our customers with the highest level of service and product support. Hi-mate enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.

\*Photo may include optional equipment.



# Cabin Design

A complete re-designed cabin offers low noise operation and increased visibility, providing a pleasant working environment for the operator.

## Ergonomic Joysticks

New joystick grips, equipped with 4 switches, are offering precise control.



## Spacious Cabin with Excellent Visibility

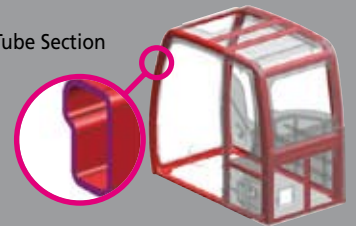
The spacious cabin is ergonomically designed with low noise levels and high visibility. A full-view front window, combined with large rear and side windows provide excellent visibility in all directions.



## Enhanced Structure

For optimum safety, the cabin tube-structure has been reinforced.

Tube Section



- 1 Handsfree mobile phone with USB charging device
- 2 Cup holders and ashtray
- 3 MP3/CD Player with remote control and AUX-input
- 4 Heated seat (Optional)
- 5 Storage compartment
- 6 Additional storage space



Centralized Control Panel



Sunroof with Sliding Cover



Adjustable Operator's Seat



Rear Window Emergency Exit



\*Photo may include optional equipment.



**Window Locking Device**



# Performance & Safety Features

Overcome the limits with Robex 9 Series.



\*Photo may include optional equipment.



**Rearview Camera  
(Optional)**



### Track Rail Guard & Adjusters

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

### Cummins QSB6.7 Engine

With 6-cylinders, turbo charger and intercooler, the Cummins QSB6.7 diesel engine is built for power, economy and reliability. This engine meets TIER 3 / EU stage IIIa emission regulations.



### The Definition of Progress

The Quantum System B-series 6.7-liter engine combines full-authority electronic controls with reliable performance.

To control these high-horsepower products, electronics are developed for the most demanding environment, including dusty and other heavy applications, to meet worldwide emissions regulations.

Increased power, improved transient response and reduced fuel consumption are the results of a QSB6.7 engine, equipped with 24 valves, centered injectors, a symmetrical piston bowl and an improved airflow.



### Strong and Stable Lower Frame

The reinforced box-section frame is welded using low-stress, high-strength steel. The X-leg type center frame is integrally welded for maximum strength and durability.



- 1 Reinforced Bucket and Bucket Linkage  
Sealed bucket linkage produces less wear of pins and bushes
- 2 Engine Speed Control - Dial-Type
- 3 Power Boost Function



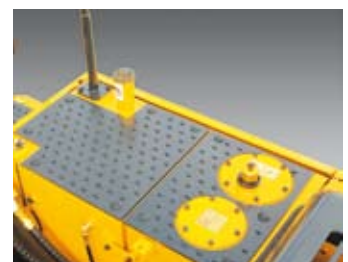
Safety Lever



Master Switch



Anti-Restart System



Anti-Slip Plates on Upper Structure

# Unique Hydraulic System

Powerful and precise control with a straightforward design.

## Advanced CAPO System

The advanced CAPO (Computer Aided Power Optimization) system tunes engine and pump power to optimum levels. Multiple mode selections are implemented for specific applications, maintaining high performance while reducing fuel consumption. Additional features include auto deceleration and power boost.

The LCD-display monitors engine speed, coolant and hydraulic oil temperature and through the self-diagnostic capability, it displays current error codes.

## Large Display with Toggle Switch (7inch Wide LCD)

The LCD-display can be adjusted to your personal preferences, making it easy to check all critical systems via easy-to-read indicators.



## Multi Function Color LCD-Display



- Warning Lights
- 1 Engine Coolant Temperature Gauge
- 2 Fuel Level Gauge
- 3 Hyd. Oil Temperature Gauge
- 4 RPM/Tripmeter Display
- 5 Accel Dial Gauge
- Power mode (P/S/E)
- Work mode (Digging/Breaker/Crusher)
- Attachment mode
- Additional information
- Travel mode
- Auto deceleration mode



- 1 Back-up switches for Cluster Operation
- 2 Adjust Flow Settings Attachment Modes: Breaker/Crusher
- 3 User Mode: Saving Operator Preferences
- 4 Self-Diagnostics System
- 5 Maintenance List & Security Password
- 6 Rearview Camera (Optional)



**Engine Overheat Prevention**



**Automatic Warm-Up System**





### **Optimum Hydraulic Performance**

Increased pump output capacity through a fine-tuned flow according to the pressure in the hydraulic system.

### **Auto Deceleration System**

When joysticks or travel pedals are in the neutral position during more than 4 seconds, the engine speed will be reduced to 1000 rpm. After 60 seconds, engine speed is automatically reduced to low idle. In this way fuel consumption and cab noise levels are reduced.

### **Boom & Arm Holding System**

Holding valves in the main control valve prevent unexpected boom & arm lowering.

### **Boom & Arm Flow Regeneration System**

The flow regeneration valve saves fuel and increases productivity without cylinder cavitation.

### **Hydraulic Dampers in Travel Pedal**

Smoother and improved travel controllability has been achieved via shock reducing components.

### **Pump Flow Regulation**

Without activating hydraulic functions, the pump flow is minimized to reduce power loss. During operation, optimum pump flow is delivered to the actuator to increase speed. Movements of the joysticks automatically adjust pump flow, with actuator speed controlled proportionally.

### **Power Boost System**

In power mode, the digging forces increase automatically about 10% when necessary. In standard and economy mode the Power Boost system can be activated manually.

### **One-Touch Deceleration System**

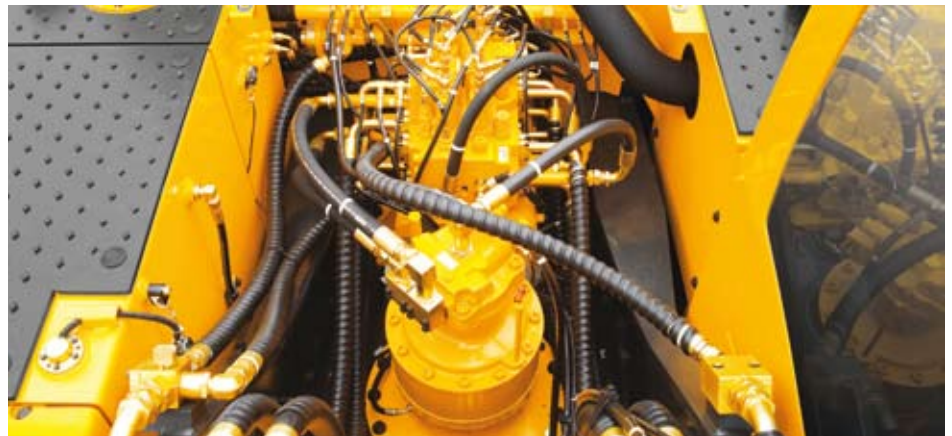
When the one-touch deceleration switch is engaged, the MCU limits the engine to idling speed. When the one-touch deceleration switch is disengaged, the engine speed recovers to preset rpm.

### **Self-Diagnostics System**

The MCU diagnoses problems in the CAPO system caused by electric and hydraulic malfunctions and displays the corresponding error code on the LCD-display. The information on this display, including engine rpm, main pump pressure, battery voltage, hydraulic temperature and the status of electric switches, allows the operator to know the operating conditions of the machine. This facilitates troubleshooting problems that may occur.

### **Attachment Flow Control System**

In attachment mode, maximum hydraulic pump flow can be preset. During operation, the hydraulic pump flow can be adjusted in steps with the toggle-switch.

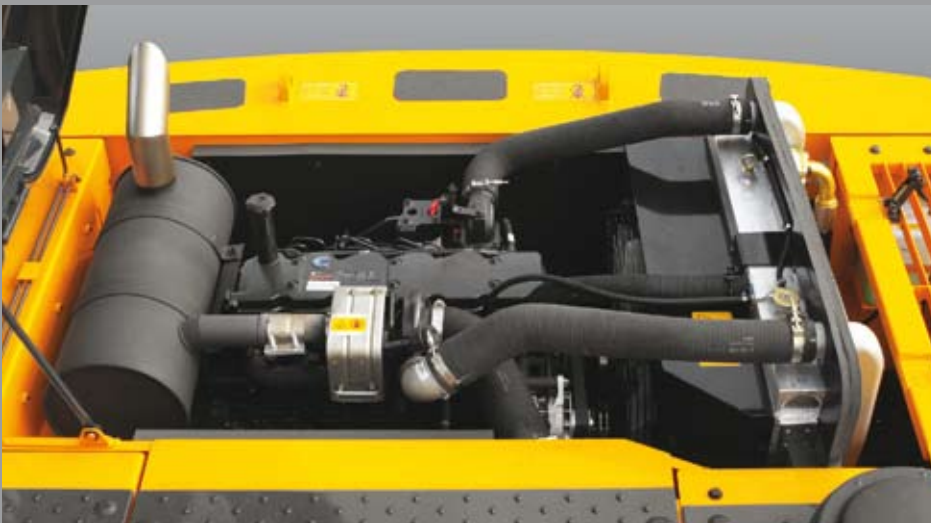




# Reliability & Maintenance

## Centralized Grease Fittings

Grease fittings are centralized and well accessible for easy service.



## Easy Maintenance Components

Cooling and pre-heating systems are designed for a quick start-up and an optimal operation, guaranteeing longer life of engine and hydraulic components. Servicing engine and hydraulics has been considerably simplified due to improved accessibility.



## Open Arrangement of Cooling and Electrical compartment

Unrestricted access to vital components allows easy maintenance and repairs.



## Extended Exchange Interval of Filters

- 1 Drain Filter (1000 hr)
- 2 Fuel Pre-Filter (500 hr)
- 3 Engine Oil Filter (500 hr)



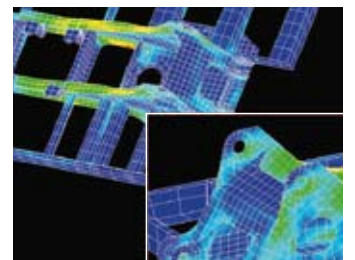
Easy to Access Electric Box



Easy to Change Air Filter



Large Compartment for Extra Storage (Fuel filler pump: Optional)



Structure Durability proven via FEM (Finite Element Method) Analysis and Long-Term Durability Tests



\*Photo may include optional equipment.



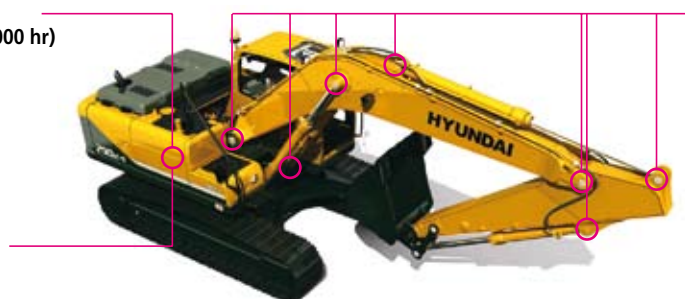
### Extended Life of Hydraulic Oil Filter

Fiber glass filters with extended exchange intervals (250 hr → 1000 hr)

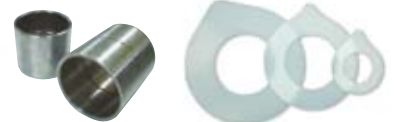


### Extended Life of Hydraulic Oil

Better protection against oxidation and heat (2,000hr → 5,000 hr)



### Extended Life of Lubricant Bush & Ultra High Molecular Weight Polymer Shim (Wear Resistant & Noise Reducing)





# Specifications

## ENGINE

MODEL	CUMMINS QSB6.7		
Type	Water cooled, 4 cycle Diesel, 6-Cylinders in line, direct injection, turbocharged, charged air cooled and low emission		
Rated flywheel horse power	SAE	J1995 (gross)	227 HP (169 kW) / 1,900 rpm
		J1349 (net)	197 HP (147 kW) / 1,900 rpm
	DIN	6271/1 (gross)	230 PS (169 kW) / 1,900 rpm
		6271/1 (net)	200 PS (147 kW) / 1,900 rpm
Max. torque	96.8 kgf.m (700 lbf.ft) / 1,500 rpm		
Bore x stroke	107 x 124 mm (4.2" x 4.9")		
Piston displacement	6,700 cc (409 in <sup>3</sup> )		
Batteries	2 X 12 V X 160AH		
Starting motor	24 V; 4.5 kW		
Alternator	24 V; 50 Amp		

## HYDRAULIC SYSTEM

<b>MAIN PUMP</b>	
Type	Two variable displacement piston pumps
Max. flow	2 X 252 L/min (66.6 US gpm / 55.4 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
<b>HYDRAULIC MOTORS</b>	
Travel	Two speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

<b>RELIEF VALVE SETTING</b>	
Implement circuits	350 kgf/cm <sup>2</sup> (4,978 psi)
Travel	350 kgf/cm <sup>2</sup> (4,978 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,404 psi)
Swing circuit	300 kgf/cm <sup>2</sup> (4,267 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (568 psi)
Service valve	Installed

<b>HYDRAULIC CYLINDERS</b>	
No. of cylinder-bore x stroke	Boom: 2 - 140 x 1,465 mm (5.5" x 57.7")
	Arm: 1 - 150 x 1,765 mm (5.9" x 69.5")
	Bucket: 1 - 135 x 1,185 mm (5.3" x 46.7")

## DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	27,300 kgf (60,200 lbf)
Max. travel speed (high) / (low)	5.2 km/hr (3.2 mph) / 3.1 km/hr (1.9 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

## CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control	Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
Lights	Two lights mounted on the boom, one light mounted in the battery box

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	10.2 rpm

## COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	500	132.1	110.0
Engine coolant	50.0	13.2	11.0
Engine oil	24	6.3	5.3
Swing device - gear oil	11.0	1.8	1.5
Final drive (each) - gear oil	5.5	2.9	2.4
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 6.25 m (20' 6") boom, 3.05 m (10' 0") arm, SAE heaped 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

<b>MAJOR COMPONENT WEIGHT</b>	
Upperstructure	7,040 kg (15,520 lb)
Counterweight	5,200 kg (11,460 lb)
Boom (with arm cylinder)	2,670 kg (5,900 lb)
Arm (with bucket cylinder)	1,570 kg (3,460 lb)

<b>OPERATING WEIGHT</b>				
Shoes			Operating weight	Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm <sup>2</sup> (psi)
Triple grouser	600 (24")	R290LC-9	29,300 (64,600)	0.56 (7.97)
		R290NLC-9	29,100 (64,150)	0.55 (7.82)
		R290LC-9 H/W	32,140 (70,860)	0.62 (8.82)
	700 (28")	R290LC-9	29,880 (65,870)	0.49 (6.97)
		R290LC-9 H/W	32,720 (72,140)	0.54 (7.68)
		R290LC-9	30,460 (67,150)	0.44 (6.26)
800 (32")	R290LC-9 H/W	33,300 (73,410)	0.48 (6.83)	
	R290LC-9	31,040 (68,430)	0.40 (5.69)	
Double grouser	700 (28")	R290LC-9 H/W	33,310 (73,440)	0.54 (7.68)



## BUCKETS

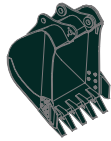
All buckets are welded with high-strength steel.



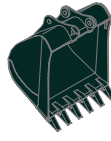
0.79 (1.03)



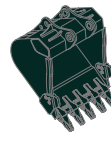
1.03 (1.35)



1.27 (1.66)  
1.50 (1.96)



1.73 (2.26)  
1.85 (2.42)

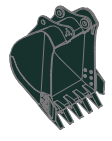


1.27 (1.66)

◆ 1.07 (1.40) ◆ 1.27 (1.66)  
◆ 1.15 (1.50) ◆ 1.46 (1.91)



● 1.16 (1.52)  
● 1.49 (1.95)



★ 0.52 (0.68)

SAE heaped m<sup>3</sup> (yd<sup>3</sup>)

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		6.25 (20' 6") Boom				10.20 (33' 6") Boom
					2.1 (6' 11") Arm	2.5 (8' 2") Arm	3.05 (10' 0") Arm	3.75 (12' 4") Arm	7.85 (25' 9") Arm
0.79 (1.03)	0.70 (0.92)	890 (35.0)	1,010 (39.8)	790 (1,740)	●	●	●	●	-
1.03 (1.35)	0.90 (1.18)	1,090 (42.9)	1,210 (47.6)	890 (1,960)	●	●	●	■	-
1.27 (1.66)	1.10 (1.44)	1,290 (50.8)	1,410 (55.5)	1,010 (2,230)	●	●	■	▲	-
1.50 (1.96)	1.30 (1.70)	1,490 (58.7)	1,610 (63.4)	1,080 (2,380)	●	■	▲	-	-
1.73 (2.26)	1.50 (1.96)	1,700 (66.9)	1,820 (71.7)	1,170 (2,580)	▲	▲	-	-	-
1.85 (2.42)	1.60 (2.09)	1,800 (70.9)	1,920 (75.6)	1,230 (2,710)	▲	-	-	-	-
1.27 (1.66)	1.10 (1.44)	1,310 (51.6)	1,340 (52.8)	1,300 (2,870)	●	●	▲	▲	-
1.07 (1.40)	0.95 (1.24)	1,150 (45.3)	-	1,120 (2,470)	●	●	●	■	-
1.15 (1.50)	1.00 (1.31)	1,210 (47.6)	-	1,160 (2,560)	●	●	●	■	-
1.27 (1.66)	1.10 (1.44)	1,310 (51.6)	-	1,240 (2,730)	●	●	▲	▲	-
1.46 (1.91)	1.28 (1.67)	1,460 (57.5)	-	1,320 (2,910)	●	■	▲	-	-
1.16 (1.52)	1.00 (1.31)	1,340 (52.8)	-	1,280 (2,820)	●	●	■	▲	-
1.49 (1.95)	1.28 (1.67)	1,620 (63.8)	-	1,440 (3,170)	●	■	▲	-	-
0.52 (0.68)	0.45 (0.59)	935 (36.8)	1,035 (40.8)	460 (1,010)	-	-	-	-	▲

● Casting bucket

● Heavy duty rock-bucket

● : Applicable for materials with density of 2,000 kg/m<sup>3</sup> (3,370 lb/yd<sup>3</sup>) or less

◆ Heavy duty bucket

★ Long reach bucket

■ : Applicable for materials with density of 1,600 kg/m<sup>3</sup> (2,700 lb/yd<sup>3</sup>) or less

▲ : Applicable for materials with density of 1,100 kg/m<sup>3</sup> (1,850 lb/yd<sup>3</sup>) or less

## ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 6.25 m & 10.2 m booms and 2.1 m; 2.5 m; 3.05 m; 3.75 m & 7.85 m arms are available.

## DIGGING FORCE

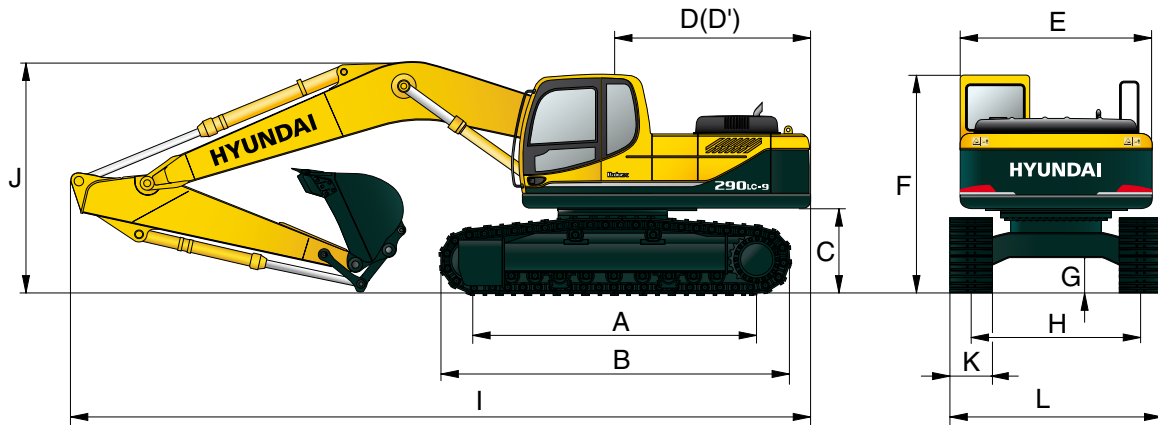
Boom	Length	mm (ft.in)	6,250 (20' 6")				10,200 (33' 6")	Remarks
	Weight	kg (lb)	2,670 (5,900)				3,420 (7,540)	
Arm	Length	mm (ft.in)	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")	7,850 (25' 9")	[ ]: Power Boost
	Weight	kg (lb)	1,480 (3,260)	1,460 (3,220)	1,570 (3,460)	1,710 (3,770)	1,690 (3,730)	
Bucket digging force	SAE	kN	166.7 [181]	166.7 [181]	166.7 [181]	166.7 [181]	70	
		kgf	17,000 [18,460]	17,000 [18,460]	17,000 [18,460]	17,000 [18,460]	7,100	
		lbf	37,480 [40,690]	37,480 [40,690]	37,480 [40,690]	37,480 [40,690]	15,650	
	ISO	kN	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]	80	
		kgf	19,300 [20,950]	19,300 [20,950]	19,300 [20,950]	19,300 [20,950]	8,200	
		lbf	42,550 [46,200]	42,550 [46,200]	42,550 [46,200]	42,550 [46,200]	18,080	
Arm crowd force	SAE	kN	180.4 [195.9]	156.9 [170.4]	131.4 [142.7]	114.7 [124.6]	47.1	
		kgf	18,400 [19,980]	16,000 [17,370]	13,400 [14,550]	11,700 [12,700]	4,800	
		lbf	40,570 [44,050]	35,270 [38,290]	29,540 [32,070]	25,790 [28,000]	10,580	
	ISO	kN	190.3 [206.6]	163.8 [177.8]	136.3 [148]	119.6 [129.9]	48.1	
		kgf	19,400 [21,060]	16,700 [18,130]	13,900 [15,090]	12,200 [13,250]	4,900	
		lbf	42,770 [46,440]	36,820 [39,980]	30,640 [33,270]	26,900 [29,210]	10,800	

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

Arm weight includes bucket cylinder, linkage, and pin

# Dimensions & Working Ranges

## DIMENSIONS R290LC-9 / R290NLC-9

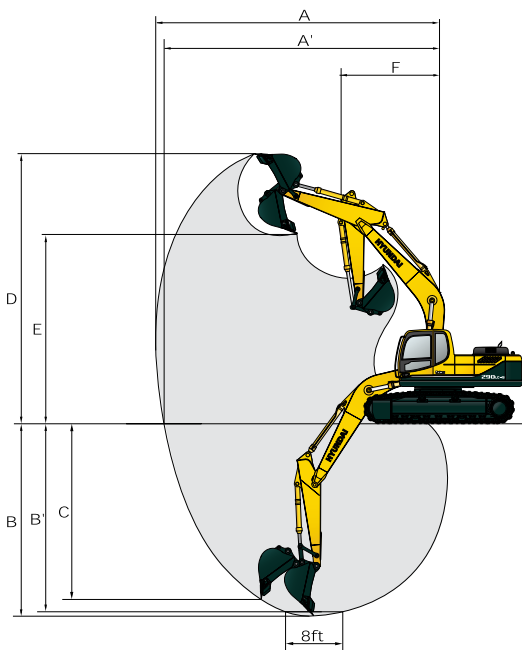


mm (ft · in)

		mm (ft · in)						mm (ft · in)			
<b>A</b> Tumbler distance	R290LC-9	4,030 (13' 3")				Boom length	6,250				10,200
	R290NLC-9	4,030 (13' 3")					(20' 6")				(33' 6")
<b>B</b> Overall length of crawler		4,940 (16' 2")				Arm length	2,100	2,500	3,050	3,750	7,850
<b>C</b> Ground clearance of counterweight		1,190 (3' 11")					(6' 11")	(8' 2")	(10' 0")	(12' 4")	(25' 9")
<b>D</b> Tail swing radius		3,200 (10' 6")				<b>I</b> Overall length	10,700	10,650	10,560	10,630	14,560
<b>D'</b> Rear-end length		3,120 (10' 3")						(35' 1")	(34' 11")	(34' 8")	(34' 11")
<b>E</b> Overall width of upperstructure		2,980 (9' 9")				<b>J</b> Overall height of boom	3,590	3,470	3,290	3,500	3,560
<b>F</b> Overall height of cab		3,010 (9' 11")						(11' 9")	(11' 5")	(10' 10")	(11' 6")
<b>G</b> Min. ground clearance		500 (1' 8")				<b>K</b> Track shoe width	600				900
<b>H</b> Track gauge	R290LC-9	2,600 (8' 6")						(24")	(28")	(32")	(36")
	R290NLC-9	2,390 (7' 10")				<b>L</b> Overall width	R290LC-9	3,200	3,300	3,400	3,500
					R290NLC-9		2,990	-	-	-	
							(9' 10")				

## WORKING R290LC-9 / R290NLC-9

mm (ft · in)

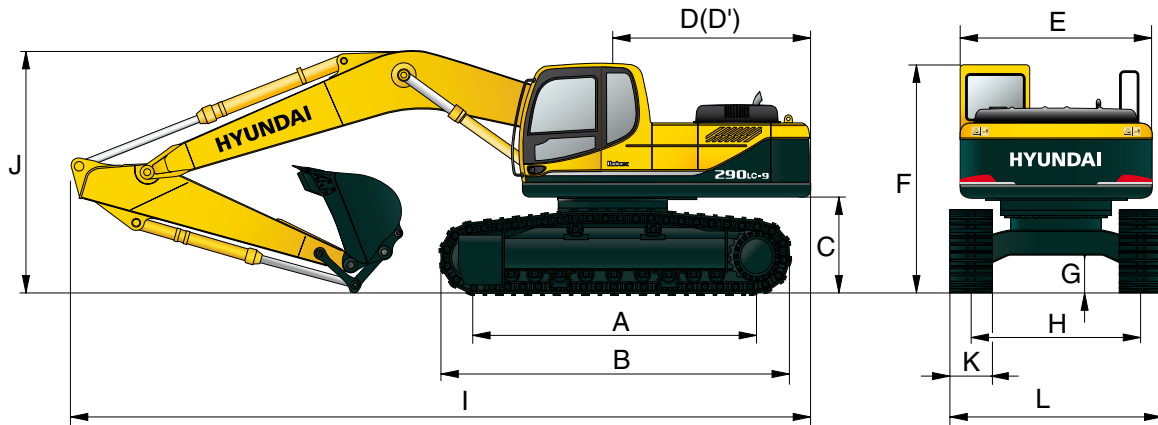


		mm (ft · in)						mm (ft · in)			
Boom length		6,250				Arm length	10,200				
		(20' 6")					(33' 6")				
<b>A</b> Max. digging reach		10,020	10,280	10,820	11,400	18,510					
		(32' 10")	(33' 7")	(35' 6")	(37' 5")	(60' 9")					
<b>A'</b> Max. digging reach on ground		9,820	10,080	10,620	11,220	18,400					
		(32' 3")	(33' 1")	(34' 10")	(36' 10")	(60' 4")					
<b>B</b> Max. digging depth		6,440	6,840	7,500	8,090	14,820					
		(21' 1")	(22' 5")	(24' 7")	(26' 7")	(48' 7")					
<b>B'</b> Max. digging depth (8' level)		6,240	6,630	7,300	7,920	14,690					
		(20' 6")	(21' 9")	(23' 11")	(25' 12")	(48' 2")					
<b>C</b> Max. vertical wall digging depth		6,000	5,850	6,410	7,080	12,020					
		(19' 8")	(19' 2")	(21' 0")	(23' 3")	(39' 5")					
<b>D</b> Max. digging height		10,070	10,110	10,160	10,360	14,500					
		(33' 0")	(33' 2")	(33' 4")	(33' 12")	(47' 7")					
<b>E</b> Max. dumping height		6,940	7,030	7,110	7,310	12,190					
		(22' 9")	(23' 1")	(23' 4")	(23' 12")	(39' 12")					
<b>F</b> Min. swing radius		4,380	4,260	4,230	4,140	6,250					
		(14' 4")	(13' 12")	(13' 11")	(13' 7")	(20' 6")					



# Dimensions & Working Ranges

## DIMENSIONS R290LC-9 HIGH WALKER



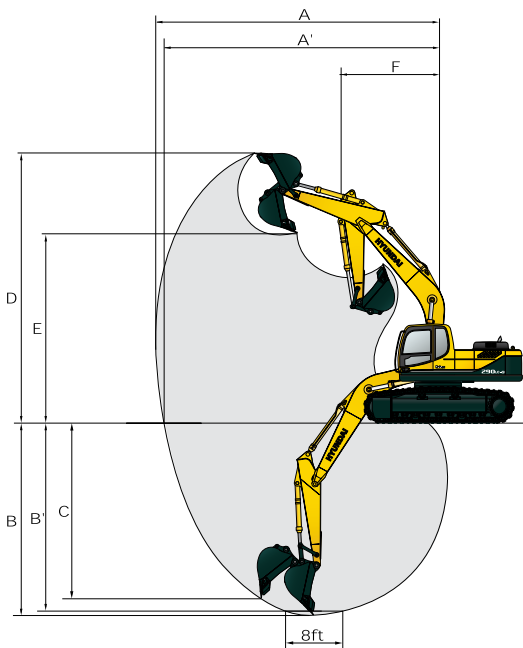
mm (ft · in)

mm (ft · in)

<b>A</b> Tumbler distance	4,030 (13' 3")	Boom length	6,250 (20' 6")				
<b>B</b> Overall length of crawler	4,950 (16' 3")	Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")	
<b>C</b> Ground clearance of counterweight	1,500 (4' 11")	<b>I</b> Overall length	10,690 (35' 1")	10,610 (34' 10")	10,430 (34' 3")	10,530 (34' 7")	
<b>D</b> Tail swing radius	3,200 (10' 6")	<b>J</b> Overall height of boom	3,740 (12' 3")	3,590 (11' 9")	3,350 (11' 0")	3,510 (11' 6")	
<b>D'</b> Rear-end length	3,120 (10' 3")	<b>K</b> Track shoe width	Type	Triple grouser			Double grouser
<b>E</b> Overall width of upperstructure	2,980 (9' 9")		Width	600 (24")	700 (28")	800 (32")	700 (28")
<b>F</b> Overall height of cab	3,380 (11' 1")	<b>L</b> Overall width		3,470 (11' 5")	3,570 (11' 9")	3,670 (12' 0")	3,570 (11' 9")
<b>G</b> Min. ground clearance	765 (2' 6")						
<b>H</b> Track gauge	2,870 (9' 5")						

## WORKING RANGES R290LC-9 HIGH WALKER

mm (ft · in)













Boom length	6,250 (20' 6")			
Arm length	2,100 (6' 11")	2,500 (8' 2")	3,050 (10' 0")	3,750 (12' 4")
<b>A</b> Max. digging reach	10,020 (32' 10")	10,280 (33' 7")	10,790 (35' 5")	11,400 (37' 5")
<b>A'</b> Max. digging reach on ground	9,750 (32' 0")	10,020 (32' 10")	10,530 (34' 7")	11,160 (36' 7")
<b>B</b> Max. digging depth	6,140 (20' 2")	6,540 (21' 5")	7,090 (23' 3")	7,790 (25' 7")
<b>B'</b> Max. digging depth (8' level)	5,930 (19' 5")	6,330 (20' 9")	6,910 (22' 8")	7,630 (25' 0")
<b>C</b> Max. vertical wall digging depth	5,700 (18' 8")	5,560 (18' 3")	6,090 (20' 0")	6,790 (22' 3")
<b>D</b> Max. digging height	10,370 (34' 0")	10,220 (33' 6")	10,440 (34' 3")	10,660 (35' 0")
<b>E</b> Max. dumping height	7,240 (23' 9")	7,170 (23' 6")	7,400 (24' 3")	7,610 (25' 0")
<b>F</b> Min. swing radius	4,380 (14' 4")	4,260 (14' 0")	4,230 (13' 11")	4,140 (13' 7")

# Lifting Capacities













## R290LC-9

 Rating over-front  Rating over-side or 360 degrees













Boom : 6.25 m (20' 6") / Arm : 2.10 m (6' 11") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)		Load radius								At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
												
7.5 m (25.0 ft)	kg					*6200	*6200			*5710	4550	8.01
	lb					*13670	*13670			*12590	10030	(26.3)
6.0 m (20.0 ft)	kg					*6560	*6560	*6370	4920	*5810	3640	8.90
	lb					*14460	*14460	*14040	10850	*12810	8020	(29.2)
4.5 m (15.0 ft)	kg			*9620	*9620	*7590	7040	*6700	4800	5250	3170	9.42
	lb			*21210	*21210	*16730	15520	*14770	10580	11570	6990	(30.9)
3.0 m (10.0 ft)	kg			*12550	10150	*8910	6570	*7330	4580	4960	2960	9.64
	lb			*27670	22380	*19640	14480	*16160	10100	10930	6530	(31.6)
1.5 m (5.0 ft)	kg			*14540	9450	*10090	6170	7300	4370	4950	2930	9.58
	lb			*32060	20830	*22240	13600	16090	9630	10910	6460	(31.4)
Ground Line	kg			*15120	9240	10210	5940	7150	4230	5230	3110	9.23
	lb			*33330	20370	22510	13100	15760	9330	11530	6860	(30.3)
-1.5 m (-5.0 ft)	kg	*14250	*14250	*14810	9260	10140	5880	7120	4210	5940	3560	8.57
	lb	*31420	*31420	*32650	20410	22350	12960	15700	9280	13100	7850	(28.1)
-3.0 m (-10.0 ft)	kg	*18890	*18890	*13670	9440	*10170	5980			*6670	4570	7.47
	lb	*41650	*41650	*30140	20810	*22420	13180			*14700	10080	(24.5)
-4.5 m (-15.0 ft)	kg	*15250	*15250	*11130	9840							
	lb	*33620	*33620	*24540	21690							

Boom : 6.25 m (20' 6") / Arm : 2.50 m (8' 2") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)		Load radius								At max. reach				
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
														
7.5 m (25.0 ft)	kg											*5240	4280	8.34
	lb											*11550	9440	(27.4)
6.0 m (20.0 ft)	kg									*5870	5000	*5400	3460	9.19
	lb									*12940	11020	*11900	7630	(30.2)
4.5 m (15.0 ft)	kg					*8760	*8760	*7090	*7090	*6310	4840	5010	3020	9.69
	lb					*19310	*19310	*15630	*15630	*13910	10670	11050	6660	(31.8)
3.0 m (10.0 ft)	kg					*11680	10360	*8460	6630	*7000	4600	4730	2810	9.90
	lb					*25750	22840	*18650	14620	*15430	10140	10430	6190	(32.5)
1.5 m (5.0 ft)	kg					*13960	9530	*9730	6190	7300	4370	4710	2770	9.84
	lb					*30780	21010	*21450	13650	16090	9630	10380	6110	(32.3)
Ground Line	kg					*14930	9190	10190	5910	7110	4200	4940	2910	9.51
	lb					*32910	20260	22470	13030	15670	9260	10890	6420	(31.2)
-1.5 m (-5.0 ft)	kg			*15220	*15220	*14910	9140	10060	5810	7040	4130	5550	3290	8.87
	lb			*33550	*33550	*32870	20150	22180	12810	15520	9110	12240	7250	(29.1)
-3.0 m (-10.0 ft)	kg	*17240	*17240	*20000	19540	*14040	9270	10130	5860			*6780	4140	7.82
	lb	*38010	*38010	*44090	43080	*30950	20440	22330	12920			*14950	9130	(25.7)
-4.5 m (-15.0 ft)	kg			*16720	*16720	*11970	9610							
	lb			*36860	*36860	*26390	21190							

Boom : 6.25 m (20' 6") / Arm : 3.05 m (10' 0") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)		Load radius										At max. reach				
		1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach m (ft)
																
7.5 m (25.0 ft)	kg													*4780	3780	8.94
	lb													*10540	8330	(29.3)
6.0 m (20.0 ft)	kg									*5270	5100			*4940	3100	9.74
	lb									*11620	11240			*10890	6830	(32.0)
4.5 m (15.0 ft)	kg							*6380	*6380	*5780	4890			4580	2730	10.20
	lb							*14070	*14070	*12740	10780			10100	6020	(33.5)
3.0 m (10.0 ft)	kg			*10490	*10490	*10510	*10510	*7800	6710	*6530	4620	*4420	3310	4330	2540	10.40
	lb			*23130	*23130	*23170	*23170	*17200	14790	*14400	10190	*9740	7300	9550	5600	(34.1)
1.5 m (5.0 ft)	kg					*13100	9660	*9190	6220	7300	4350	*5230	3170	4300	2490	10.35
	lb					*28880	21300	*20260	13710	16090	9590	*11530	6990	9480	5490	(34.0)
Ground Line	kg			*10140	*10140	*14530	9160	10150	5880	7070	4150	*4600	3070	4480	2600	10.04
	lb			*22350	*22350	*32030	20190	22380	12960	15590	9150	*10140	6770	9880	5730	(32.9)
-1.5 m (-5.0 ft)	kg	*10990	*10990	*14250	*14250	*14890	9010	9970	5710	6950	4040			4950	2900	9.44
	lb	*24230	*24230	*31420	*31420	*32830	19860	21980	12590	15320	8910			10910	6390	(31.0)
-3.0 m (-10.0 ft)	kg	*14880	*14880	*19250	19100	*14380	9070	9960	5710	6970	4060			5960	3540	8.48
	lb	*32800	*32800	*42440	42110	*31700	20000	21960	12590	15370	8950			13140	7800	(27.8)
-4.5 m (-15.0 ft)	kg	*19470	*19470	*18400	*18400	*12820	9320	*9370	5890					*6400	5050	6.97
	lb	*42920	*42920	*40570	*40570	*28260	20550	*20660	12990					*14110	11130	(22.9)

- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

















# Lifting Capacities

## R290LC-9

 Rating over-front  Rating over-side or 360 degrees











Boom : 6.25 m (20' 6") / Arm : 3.75 m (12' 4") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius										At max. reach						
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach		
															m (ft)		
7.5 m (25.0 ft)	kg													*4230	3250	9.67	
	lb													*9330	7170	(31.7)	
6.0 m (20.0 ft)	kg								*4470	*4470	*2540	*2540	*4400	*4400	2710	10.40	
	lb								*9850	*9850	*5600	*5600	*9700	*9700	5970	(34.1)	
4.5 m (15.0 ft)	kg								*5050	4990	*3970	3480	4100	4100	2400	10.83	
	lb								*11130	11000	*8750	7670	9040	9040	5290	(35.5)	
3.0 m (10.0 ft)	kg			*14430	*14430	*8910	*8910	*6870	*6870	*5870	4690	*5060	3330	3330	3890	2230	11.02
	lb			*31810	*31810	*19640	*19640	*15150	*15150	*12940	10340	*11160	7340	8580	4920	(36.2)	
1.5 m (5.0 ft)	kg			*10550	*10550	*11820	9980	*8410	6340	*6760	4390	5380	3160	3850	2180	10.97	
	lb			*23260	*23260	*26060	22000	*18540	13980	*14900	9680	11860	6970	8490	4810	(36.0)	
Ground Line	kg	*6830	*6830	*10900	*10900	*13790	9270	*9670	5910	7060	4140	5220	3020	3980	2260	10.68	
	lb	*15060	*15060	*24030	*24030	*30400	20440	*21320	13030	15560	9130	11510	6660	8770	4980	(35.0)	
-1.5 m (-5.0 ft)	kg	*9850	*9850	*13520	*13520	*14680	8950	9930	5670	6880	3970	5130	2940	4340	2480	10.12	
	lb	*21720	*21720	*29810	*29810	*32360	19730	21890	12500	15170	8750	11310	6480	9570	5470	(33.2)	
-3.0 m (-10.0 ft)	kg	*13010	*13010	*17210	*17210	*14640	8900	9830	5590	6830	3920			5070	2950	9.25	
	lb	*28680	*28680	*37940	*37940	*32280	19620	21670	12320	15060	8640			11180	6500	(30.3)	
-4.5 m (-15.0 ft)	kg	*16680	*16680	*20250	19120	*13660	9050	9930	5670					*6200	3950	7.92	
	lb	*36770	*36770	*44640	42150	*30120	19950	21890	12500					*13670	8710	(26.0)	













## R290NLC-9

 Rating over-front  Rating over-side or 360 degrees

Boom : 6.25 m (20' 6") / Arm : 2.10 m (6' 11") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius						At max. reach					
	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
											m (ft)	
7.5 m (25.0 ft)	kg					*6200	*6200			*5710	4110	8.01
	lb					*13670	*13670			*12590	9060	(26.3)
6.0 m (20.0 ft)	kg					*6560	*6560	*6370	4450	*5810	3270	8.90
	lb					*14460	*14460	*14040	9810	*12810	7210	(29.2)
4.5 m (15.0 ft)	kg			*9620	*9620	*7590	6360	*6700	4320	5220	2830	9.42
	lb			*21210	*21210	*16730	14020	*14770	9520	11510	6240	(30.9)
3.0 m (10.0 ft)	kg			*12550	9050	*8910	5900	*7330	4110	4930	2630	9.64
	lb			*27670	19950	*19640	13010	*16160	9060	10870	5800	(31.6)
1.5 m (5.0 ft)	kg			*14540	8370	*10090	5510	7260	3900	4920	2600	9.58
	lb			*32060	18450	*22240	12150	16010	8600	10850	5730	(31.4)
Ground Line	kg			*15120	8170	10150	5290	7110	3770	5200	2760	9.23
	lb			*33330	18010	22380	11660	15670	8310	11460	6080	(30.3)
-1.5 m (-5.0 ft)	kg	*14250	*14250	*14810	8190	10080	5230	7080	3740	5900	3170	8.57
	lb	*31420	*31420	*32650	18060	22220	11530	15610	8250	13010	6990	(28.1)
-3.0 m (-10.0 ft)	kg	*18890	17220	*13670	8360	*10170	5330			*6670	4100	7.47
	lb	*41650	37960	*30140	18430	*22420	11750			*14700	9040	(24.5)
-4.5 m (-15.0 ft)	kg	*15250	*15250	*11130	8750							
	lb	*33620	*33620	*24540	19290							

Boom : 6.25 m (20' 6") / Arm : 2.50 m (8' 2") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius						At max. reach								
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach		
													m (ft)		
7.5 m (25.0 ft)	kg											*5240	3870	8.34	
	lb											*11550	8530	(27.4)	
6.0 m (20.0 ft)	kg								*5870	4520	*5400	3100	3100	9.19	
	lb								*12940	9960	*11900	6830	6830	(30.2)	
4.5 m (15.0 ft)	kg				*8760	*8760	*7090	6450	*6310	4360	4990	2690	2690	9.69	
	lb				*19310	*19310	*15630	14220	*13910	9610	11000	5930	5930	(31.8)	
3.0 m (10.0 ft)	kg				*11680	9250	*8460	5960	*7000	4130	4710	2490	2490	9.90	
	lb				*25750	20390	*18650	13140	*15430	9110	10380	5490	5490	(32.5)	
1.5 m (5.0 ft)	kg				*13960	8440	*9730	5530	7260	3900	4680	2450	2450	9.84	
	lb				*30780	18610	*21450	12190	16010	8600	10320	5400	5400	(32.3)	
Ground Line	kg				*14930	8120	10130	5260	7080	3730	4920	2580	2580	9.51	
	lb				*32910	17900	22330	11600	15610	8220	10850	5690	5690	(31.2)	
-1.5 m (-5.0 ft)	kg			*15220	*15220	*14910	8070	10010	5160	7000	3670	5520	2930	2930	8.87
	lb			*33550	*33550	*32870	17790	22070	11380	15430	8090	12170	6460	6460	(29.1)
-3.0 m (-10.0 ft)	kg	*17240	*17240	*20000	16870	*14040	8200	10070	5210			*6780	3700	7.82	
	lb	*38010	*38010	*44090	37190	*30950	18080	22200	11490			*14950	8160	(25.7)	
-4.5 m (-15.0 ft)	kg			*16720	*16720	*11970	8530								
	lb			*36860	*36860	*26390	18810								















- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

# Lifting Capacities















## R290NLC-9

 Rating over-front  Rating over-side or 360 degrees

Boom : 6.25 m (20' 6") / Arm : 3.05 m (10' 0") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius												At max. reach			
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach	
															m (ft)	
7.5 m (25.0 ft)	kg													*4780	3400	8.94
	lb													*10540	7500	(29.3)
6.0 m (20.0 ft)	kg								*5270	4610				*4940	2770	9.74
	lb								*11620	10160				*10890	6110	(32.0)
4.5 m (15.0 ft)	kg							*6380	*6380	*5780	4410			4550	2420	10.20
	lb							*14070	*14070	*12740	9720			10030	5340	(33.5)
3.0 m (10.0 ft)	kg			*10490	*10490	*10510	9510	*7800	6040	*6530	4150	*4420	2940	4310	2240	10.40
	lb			*23130	*23130	*23170	20970	*17200	13320	*14400	9150	*9740	6480	9500	4940	(34.1)
1.5 m (5.0 ft)	kg					*13100	8570	*9190	5560	7260	3880	*5230	2810	4270	2190	10.35
	lb					*28880	18890	*20260	12260	16010	8550	*11530	6190	9410	4830	(34.0)
Ground Line	kg			*10140	*10140	*14530	8090	10100	5220	7030	3680	*4600	2710	4450	2290	10.04
	lb			*22350	*22350	*32030	17840	22270	11510	15500	8110	*10140	5970	9810	5050	(32.9)
-1.5 m (-5.0 ft)	kg	*10990	*10990	*14250	*14250	*14890	7940	9910	5060	6910	3580			4920	2560	9.44
	lb	*24230	*24230	*31420	*31420	*32830	17500	21850	11160	15230	7890			10850	5640	(31.0)
-3.0 m (-10.0 ft)	kg	*14880	*14880	*19250	16450	*14380	8000	9910	5060	6930	3590			5920	3140	8.48
	lb	*32800	*32800	*42440	36270	*31700	17640	21850	11160	15280	7910			13050	6920	(27.8)
-4.5 m (-15.0 ft)	kg	*19470	*19470	*18400	16950	*12820	8240	*9370	5240					*6400	4520	6.97
	lb	*42920	*42920	*40570	37370	*28260	18170	*20660	11550					*14110	9960	(22.9)















Boom : 6.25 m (20' 6") / Arm : 3.75 m (12' 4") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius												At max. reach			
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach	
															m (ft)	
7.5 m (25.0 ft)	kg													*4230	2920	9.67
	lb													*9330	6440	(31.7)
6.0 m (20.0 ft)	kg									*4470	*4470	*2540	*2540	*4400	2410	10.40
	lb									*9850	*9850	*5600	*5600	*9700	5310	(34.1)
4.5 m (15.0 ft)	kg									*5050	4500	*3970	3120	4080	2110	10.83
	lb									*11130	9920	*8750	6880	8990	4650	(35.5)
3.0 m (10.0 ft)	kg			*14430	*14430	*8910	*8910	*6870	6210	*5870	4210	*5060	2960	3870	1950	11.02
	lb			*31810	*31810	*19640	*19640	*15150	13690	*12940	9280	*11160	6530	8530	4300	(36.2)
1.5 m (5.0 ft)	kg			*10550	*10550	*11820	8870	*8410	5670	*6760	3910	5350	2800	3820	1910	10.97
	lb			*23260	*23260	*26060	19550	*18540	12500	*14900	8620	11790	6170	8420	4210	(36.0)
Ground Line	kg	*6830	*6830	*10900	*10900	*13790	8190	*9670	5260	7020	3670	5190	2660	3960	1970	10.68
	lb	*15060	*15060	*24030	*24030	*30400	18060	*21320	11600	15480	8090	11440	5860	8730	4340	(35.0)
-1.5 m (-5.0 ft)	kg	*9850	*9850	*13520	*14680	7880	9870	5010	6850	3510	5100	2580	4310	2170	10.12	
	lb	*21720	*21720	*29810	*29810	*32360	17370	21760	11050	15100	7740	11240	5690	9500	4780	(33.2)
-3.0 m (-10.0 ft)	kg	*13010	*13010	*17210	16070	*14640	7830	9780	4940	6790	3460			5040	2600	9.25
	lb	*28680	*28680	*37940	35430	*32280	17260	21560	10890	14970	7630			11110	5730	(30.3)
-4.5 m (-15.0 ft)	kg	*16680	*16680	*20250	16460	*13660	7980	9880	5020					*6200	3520	7.92
	lb	*36770	*36770	*44640	36290	*30120	17590	21780	11070					*13670	7760	(26.0)

## R290LC-9 HIGH WALKER

 Rating over-front  Rating over-side or 360 degrees

Boom : 6.25 m (20' 6") / Arm : 3.05 m (10' 0") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius												At max. reach			
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach	
															m (ft)	
7.5 m (25.0 ft)	kg									*3560	*3560			*4810	4650	9.12
	lb									*7850	*7850			*10600	10250	(29.9)
6.0 m (20.0 ft)	kg									*5340	*5340			*4970	3950	9.85
	lb									*11770	*11770			*10960	8710	(32.3)
4.5 m (15.0 ft)	kg							*6630	*6630	*5910	*5910	*3130	*3130	*5180	3570	10.26
	lb							*14620	*14620	*13030	*13030	*6900	*6900	*11420	7870	(33.7)
3.0 m (10.0 ft)	kg					*11060	*11060	*8070	*8070	*6680	5910	*4640	4330	5050	3390	10.41
	lb					*24380	*24380	*17790	*17790	*14730	13030	*10230	9550	11130	7470	(34.2)
1.5 m (5.0 ft)	kg			*7260	*7260	*13460	12470	*9420	7980	*7460	5640	*5260	4190	5070	3380	10.31
	lb			*16010	*16010	*29670	27490	*20770	17590	*16450	12430	*11600	9240	11180	7450	(33.8)
Ground Line	kg			*10880	*10880	*14670	12030	*10360	7670	*8040	5450			5330	3560	9.95
	lb			*23990	*23990	*32340	26520	*22840	16910	*17730	12020			11750	7850	(32.6)
-1.5 m (-5.0 ft)	kg	*11690	*11690	*15110	*15110	*14860	11910	*10720	7530	8080	5360			5950	3990	9.29
	lb	*25770	*25770	*33310	*33310	*32760	26260	*23630	16600	17810	11820			13120	8800	(30.5)
-3.0 m (-10.0 ft)	kg	*15680	*15680	*20360	*20360	*14180	12010	*10400	7560	*7880	5410			*6450	4900	8.24
	lb	*34570	*34570	*44890	*44890	*31260	26480	*22930	16670	*17370	11930			*14220	10800	(27.0)
-4.5 m (-15.0 ft)	kg	*20460	*20460	*17650	*17650	*12350	12330	*8950	7790							
	lb	*45110	*45110	*38910	*38910	*27230	27180	*19730	17170							

- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.



# Lifting Capacities

## R290LC-9 HIGH WALKER

Rating over-front Rating over-side or 360 degrees

Boom : 6.25 m (20' 6") / Arm : 3.75 m (12' 4") / Bucket : 1.27 m<sup>3</sup> (1.66 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 5,200 kg (11,460 lb) Counterweight

Load point height m (ft)	Load radius												At max. reach			
	1.5 m (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach	
															m (ft)	
7.5 m (25.0 ft)	kg													*4260	4070	9.83
	lb													*9390	8970	(32.3)
6.0 m (20.0 ft)	kg								*4560	*4560	*2880	*2880	*4430	3500	10.50	
	lb								*10050	*10050	*6350	*6350	*9770	7720	(34.4)	
4.5 m (15.0 ft)	kg								*5200	*5200	*4190	*4190	*4640	3180	10.89	
	lb								*11460	*11460	*9240	*9240	*10230	7010	(35.7)	
3.0 m (10.0 ft)	kg			*15960	*15960	*9500	*9500	*7170	*7170	*6040	5980	*5270	4350	4560	3020	11.03
	lb			*35190	*35190	*20940	*20940	*15810	*15810	*13320	13180	*11620	9590	10050	6660	(36.2)
1.5 m (5.0 ft)	kg			*10240	*10240	*12280	*12280	*8680	8090	*6920	5670	*5940	4180	4560	3010	10.93
	lb			*22580	*22580	*27070	*27070	*19140	17840	*15260	12500	*13100	9220	10050	6640	(35.9)
Ground Line	kg	*7420	*7420	*11300	*11300	*14040	12100	*9850	7690	*7660	5430	6100	4040	4760	3140	10.59
	lb	*16360	*16360	*24910	*24910	*30950	26680	*21720	16950	*16890	11970	13450	8910	10490	6920	(34.7)
-1.5 m (-5.0 ft)	kg	*10420	*10420	*14140	*14140	*14740	11840	*10500	7470	8000	5290	*5080	3970	5230	3460	9.98
	lb	*22970	*22970	*31170	*31170	*32500	26100	*23150	16740	17640	11660	*11200	8750	11530	7630	(32.7)
-3.0 m (-10.0 ft)	kg	*13660	*13660	*18040	*18040	*14540	11830	*10540	7420	7970	5260			*6020	4120	9.03
	lb	*30120	*30120	*39770	*39770	*32060	26080	*23240	16360	17570	11600			*13270	9080	(29.6)
-4.5 m (-15.0 ft)	kg	*17460	*17460	*19680	*19680	*13340	12030	*9740	7540					*6220	5580	7.60
	lb	*38490	*38490	*43390	*43390	*29410	26520	*21470	16620					*13710	12300	(24.9)

## R290LC-9 LONG REACH

Rating over-front Rating over-side or 360 degrees

Boom : 10.2 m (33' 6") / Arm : 7.85 m (25' 9") / Bucket : 0.52 m<sup>3</sup> (0.68 yd<sup>3</sup>) SAE heaped / Shoe : 800 mm (32") triple grouser with 7,000 kg (15,430 lb) Counterweight

Load point height m (ft)	Load radius												At max. reach							
	6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)		12.0 m (40.0 ft)		13.5 m (45.0 ft)		15.0 m (50.0 ft)		Capacity		Reach			
																	m (ft)			
13.5 m (45.0 ft)	kg															*1820	*1820	14.13		
	lb															*4010	*4010	(46.4)		
12.0 m (40.0 ft)	kg															*1840	*1840	15.27		
	lb															*4060	*4060	(50.1)		
10.5 m (35.0 ft)	kg												*1100	*1100	*1870	1830	16.18			
	lb												*2430	*2430	*4120	4030	(53.1)			
9.0 m (30.0 ft)	kg												*1560	*1560	*1920	1600	16.89			
	lb												*3440	*3440	*4230	3530	(55.4)			
7.5 m (25.0 ft)	kg												*1940	*1940	*1870	*1870	*1970	1440	17.44	
	lb												*4280	*4280	*4120	*4120	*4340	3170	(57.2)	
6.0 m (20.0 ft)	kg												*2090	*2090	*2060	2020	*2030	1310	17.83	
	lb												*4610	*4610	*4540	4450	*4480	2890	(58.5)	
4.5 m (15.0 ft)	kg															*2390	*2390	*2090	1220	18.08
	lb															*5270	*5270	*4610	2690	(59.3)
3.0 m (10.0 ft)	kg					*3320	*3320	*2940	*2940	*2670	*2670	*2480	2290	*2340	1830	2120	1150	18.20		
	lb					*7320	*7320	*6480	*6480	*5890	*5890	*5470	5050	*5160	4030	4670	2540	(59.7)		
1.5 m (5.0 ft)	kg	*6230	*6230	*4760	*4760	*3900	*3900	*3340	*3340	*2970	2670	*2700	2140	*2510	1730	2080	1110	18.19		
	lb	*13730	*13730	*10490	*10490	*8600	*8600	*7360	*7360	*6550	5890	*5950	4720	*5530	3810	4590	2450	(59.7)		
Ground Line	kg	*7390	6790	*5530	5040	*4440	3900	*3740	3090	*3260	2480	*2920	2010	*2670	1630	2070	1100	18.04		
	lb	*16290	14970	*12190	11110	*9790	8600	*8250	6810	*7190	5470	*6440	4430	*5890	3590	4560	2430	(59.2)		
-1.5 m (-5.0 ft)	kg	*8230	6220	*6170	4620	*4910	3590	*4090	2870	*3530	2320	*3120	1890	2770	1540	2100	1110	17.76		
	lb	*18140	13710	*13600	10190	*10820	7910	*9020	6330	*7780	5110	*6880	4170	6110	3400	4630	2450	(58.3)		
-3.0 m (-10.0 ft)	kg	*8770	5900	*6630	4340	*5290	3370	*4390	2690	*3760	2190	3190	1790	2700	1480	2170	1140	17.33		
	lb	*19330	13010	*14620	9570	*11660	7430	*9680	5930	*8290	4830	7030	3950	5950	3260	4780	2510	(56.9)		
-4.5 m (-15.0 ft)	kg	*9070	5750	*6930	4180	*5550	3230	4530	2580	3730	2100	3120	1730	2660	1440	2280	1220	16.75		
	lb	*20000	12680	*15280	9220	*12240	7120	9990	5690	8220	4630	6880	3810	5860	3170	5030	2690	(55.0)		
-6.0 m (-20.0 ft)	kg	*9150	5710	*7080	4120	5580	3160	4460	2510	3670	2050	3090	1700	2650	1430	2470	1330	15.99		
	lb	*20170	12590	*15610	9080	12300	6970	9830	5530	8090	4520	6810	3750	5840	3150	5450	2930	(52.5)		
-7.5 m (-25.0 ft)	kg	*9030	5770	*7060	4130	5570	3150	4450	2510	3670	2050	3110	1710			2740	1520	15.04		
	lb	*19910	12720	*15560	9110	12280	6940	9810	5530	8090	4520	6860	3770			6040	3350	(49.3)		
-9.0 m (-30.0 ft)	kg	*8690	5920	*6860	4220	*5590	3210	4500	2550	3730	2100					*3130	1800	13.83		
	lb	*19160	13050	*15120	9300	*12320	7080	9920	5620	8220	4630					*6900	3970	(45.4)		
-10.5 m (-35.0 ft)	kg	*8080	6150	*6430	4380	*5250	3340	*4340	2670	*3570	2230					*3290	2270	12.31		
	lb	*17810	13560	*14180	9660	*11570	7360	*9570	5890	*7870	4920					*7250	5000	(40.4)		
-12.0 m (-40.0 ft)	kg	*7090	6490	*5670	4630	*4580	3560													
	lb	*15630	14310	*12500	10210	*10100	7850													
-13.5 m (-45.0 ft)	kg	*5480	*5480	*4290	*4290															
	lb	*12080	*12080	*9460	*9460															

- Lifting capacity is based on SAE J1097, ISO 10567.
- Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- The load point is a hook located on the back of the bucket.
- (\*) indicates the load limited by hydraulic capacity.

## 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  
One key fits all lockable doors  
Hot & cool box  
Storage compartment & Ashtray  
Transparent cabin roof-cover  
CD/MP3 Player with AUX-input  
Handsfree mobile phone system with USB-charging device  
Sun visor

### Computer aided power optimization (New CAPO) system

3-power modes, 3-work modes, User mode  
Auto & one-touch deceleration system  
Auto warm-up system  
Overheat prevention system

### Self-diagnostics system

### Starting Aid (air grid heater) for cold weather

### Centralized monitoring

LCD display  
Engine speed or Trip meter  
Clock  
Gauges  
Fuel level gauge  
Engine coolant temperature gauge  
Hyd. oil temperature gauge  
Warning lamps  
Engine warning  
Overload  
Communication error  
Low battery  
Air filter clogging  
Indicators  
Max power  
Low speed/High speed  
Fuel warmer  
Auto deceleration

### Door and cab locks, one key

### Two outside rearview mirrors

### Fully adjustable suspension seat with seat belt

### Adjustable joysticks

### Console box tilting system (LH.)

### Three frontal working lights

### Electric horn

### Batteries (2 x 12V x 160 AH)

### Battery master switch

### Removable clean-out screen for oil cooler

### Automatic swing brake

### Removable reservoir tank

### Fuel pre-filter with fuel warmer

### Boom holding system

### Arm holding system

### Counterweight (5,200 kg; 11,460 lb)

### Track shoes (600 mm; 24")

### Track rail guard

### Viscous fan clutch

### Accumulator for lowering work equipment

### Electric transducer

### Lower frame under cover

## 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

### 12 volt power outlet (24V DC to 12V DC converter)

### Travel alarm

### Boom

6.25 m; 20' 6"

6.25 m; 20' 6" Heavy duty

10.2 m; 33' 6" Long reach

### Arm

2.1 m; 6' 11"

2.5 m; 8' 2"

3.05 m; 10' 0"

3.75 m; 12' 4"

3.05 m; 10' 0" Heavy duty

7.85 m; 25' 9" Long reach

### Automatic climate control

Full-automatic air conditioner & heater

Semi-automatic air conditioner & heater

Air conditioner

Heater

Defroster

### Cabin FOPS/FOG (ISO/DIS 10262)

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

### Cabin roof-steel cover

### Cabin lights

### Rain guard - front window

### 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 walker only)

### Additional cover under lower frame

### Coolant pre-heating system

### Tool kit

### Operator suit

### Low-noise kit

### Rearview camera

### Seat

Adjustable air suspension seat

Adjustable air suspension seat with heater

Mechanical suspension seat with heater

### Pattern change valve (4 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. All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT

