

We build a better future

# Robex 320LC-9

Equipped with Tier 3 Engine



\*Photo may include optional equipment.



# Pleasure works

An operator, who takes pleasure in his work, does a better job. That is why we at Hyundai Heavy Industries do everything we can to make that happen. We merged operator preference, fast precision and lasting performance into a quality product. Hyundai 9 series earthmoving equipment simply makes time fly, makes pleasure work!



\*Photo may include optional equipment.

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## Machine Walk-Around

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### Robust Undercarriage

Track chain with urethane seals / Track rail guard / Comfortable bolt-on steps / Large upper roller cut-outs / Grease-type track adjusters.

### Engine Technology

Powerful and reliable, fuel efficient Cummins Tier III QSC engine.  
Electronical controlled, clean and efficient combustion.  
Low noise / Auto engine overheat prevention / Anti-restart function.

### Hydraulic System Improvements

New patented hydraulic system for maximum controllability / Improved main control valve for higher efficiency and smoother operation / Auto boom vs. swing priority system for maximum speed / Auto power boost for extra power / Improved arm & boom regeneration for higher speed and better efficiency.

### Pump Compartment

Powerful and reliable axial piston pumps, designed by Kawasaki.  
Compact solenoid block to control: 2 speed travel, power boost, boom priority, arm regeneration and safety lock.

### Enhanced Operators' Cabin

#### Improved Visibility

Enlarged cabin with improved visibility / See-through sunroof for visibility and ventilation.  
Large right-side window, for better visibility on foot of boom.  
All windows consist of Safety glass.  
Roll-up type sun visor for operators' convenience / Reduced front window seam for improved operator view.

#### Rigid Cabin Construction

New steel tube construction for increased operator safety, higher protection and better durability.  
New front window mechanism designed with spring assist.

#### Improved Seat & Console

Ergonomic joysticks equipped with auxiliary buttons for attachment use.  
Standard mechanic suspension with heater or optional air suspension.  
New joystick consoles - adjustable in height.  
Adjustable arm rests - for optimum comfort.

#### Advanced 7" Color Cluster

New Color LCD Display with digital gauges for hydraulic oil temperature, coolant temperature and fuel level.  
Toggle switch makes it easier to tune your machine and to check diagnostics. A new developed rear-view camera is integrated into the cluster.  
3 power modes : Power / Standard / Economy, 3 work modes : Digging / Breaker / Crusher, User mode for saving operators' preferences.  
Enhanced self-diagnostic features with remote access through the Hi-Mate system.  
One pump flow or two pump flow summation for optional attachment, selectable through the cluster /  
Anti-theft system with password entry.  
Boom speed and arm regeneration can be adjusted through the cluster.  
Auto power boost in Power-mode - activated through the cluster.  
Air conditioning and heater with automatic climate control.  
Hi-Mate (Remote Management System) enables machine owners to follow-up machine performance, to verify machine location and to access diagnostic information on a distance through any internet connection.



# Preference

An operator, who sets his machine to his needs, takes pleasure in his work. 9 Series respects operator preference with regards to comfort, ease-of-use and controllability. The dashboard cluster with 7 inch screen and toggle switch is the preference nerve centre.



\*Photo may include optional equipment.



## Spacious Cabin with Excellent Visibility

The spacious cabin is ergonomically designed with low noise levels and high visibility. Special attention was paid to create a clear, open and convenient interior with excellent visibility in all directions. This well balanced operators' environment put the operator in the perfect position to work safely and securely.

## Operator Comfort

In a 9 series cabin you can adjust the seat, console and armrests to suit your preferred comfort level. Seat and console can be adjusted in position and height together and independent from each other. A fully automatic, high capacity air conditioning system maintains a constant temperature.



## Stressless

Work is stressful enough; your working environment should be stressless. Hyundai's 9 series provides improved cabin interior, additional space and a comfortable seat to minimize the stress of the operator. A powerful climate control system provides the operator with his preferred air temperature. An advanced audio system with CD player, AM/FM stereo and MP3 capabilities, plus remote controls is installed to listen to your preferred music favorites. Operators can even call while operating with the hands-free mobile phone feature.



## Easy to Use Cluster

The advanced 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 are integrated into the cluster to make the machine more versatile and the operator more productive.





# Precision

An operator, who feels his machine respond smoothly, takes pleasure in his work. 9 Series delivers fast precision by combining smoother hydraulics with wider view and less stress. The innovative Negative hydraulic system combines straightforward technology with superior response.



\*Photo may include optional equipment.

## Computer Aided Power

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. Operators can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

### Power Mode

Three unique power modes provide the operator with custom engine power, attachment speed and fuel economy. Power-mode maximizes machine speed and power for maximum productivity. Standard-mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. Economy-mode provides precise flow and engine power based on load conditions, for maximum fuel efficiency and controllability.

### Work Mode

Through the different work modes, the operator can select general digging, single-acting attachments like a hydraulic breaker or double-acting attachments like a crusher. Flow settings can be preset through the cluster.

### User Mode

Some jobs require more precise machine settings; some operators prefer different machine settings. Using the User-mode, the operator can customize engine speed, pump output, idle speed and other machine settings according to personal preferences.

## Hydraulic System Improvements



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and top level controllability. Spool valves in the control valve are engineered to provide more precise flow to each function with less effort.

Improved hydraulic valves, variable volume piston pumps, fine-touch pilot controls and enhanced travel functions make any operator look like a smooth operator.

Newly improved features include arm and boom regeneration, enhanced control valve technology

and innovative auto boom and swing priority for best performances in any application.



### Auto Boom vs. Swing Priority

This smart function adapts the ideal hydraulic flow balance for the boom and swing operation for your application. The advanced CAPO system monitors the hydraulic operations and adjusts the balance to maximize performance and productivity.

# Performance

An operator, who can rely on his machine, takes pleasure in his work. 9 Series stands for lasting performance in strength, speed and reliability. The Auto boom-swing priority results into faster movements and shorter cycle times.



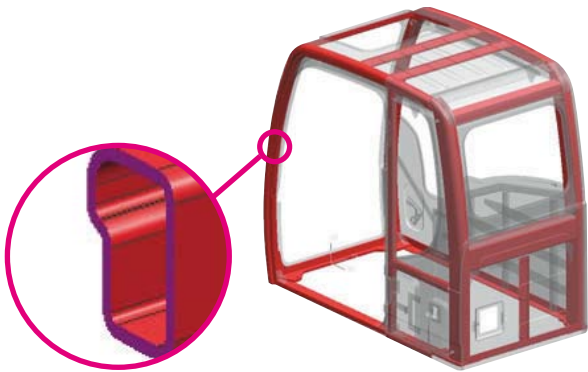
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## Track Rail Guard & Adjusters

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



## Structural Strength

The 9 series cabin structure is designed with slimmer but stronger tubing for more safety and better visibility. Low-stress and high-strength steel is welded to form a strong and stable lower frame. Structural durability is analyzed and tested by FEM-analysis (Finite Elements Method) and long-term durability tests.

## CUMMINS QSC Engine

The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSC diesel engine is built for power, reliability, efficiency and reduced emissions.

## Heavy-duty strength

The QSC from Cummins. With advanced electronics. Higher torque. Better throttle response. Shorter service times. Longer maintenance intervals. Increased fuel economy. Decreased noise. Diagnostics. Prognostics. Engine protection, and more. All wrapped up in something we call the Quantum system. The QSC is built to withstand the toughest circumstances. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold compensates heat expansion and contraction, eliminating metal stress. Reduced friction in the power cylinder means longer life and increased power output. From the reinforced block to the stiffened gear housing, the QSC is built stronger to last longer.



# Profitable

An owner, who knows his machine saves money, takes pleasure in owning it. 9 Series excavators contribute to your business as a time, fuel, spare-part and cost saving earthmoving solution. The Remote Management System allows machine owners to track, monitor and manage at a distance.



\*Photo may include optional 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.



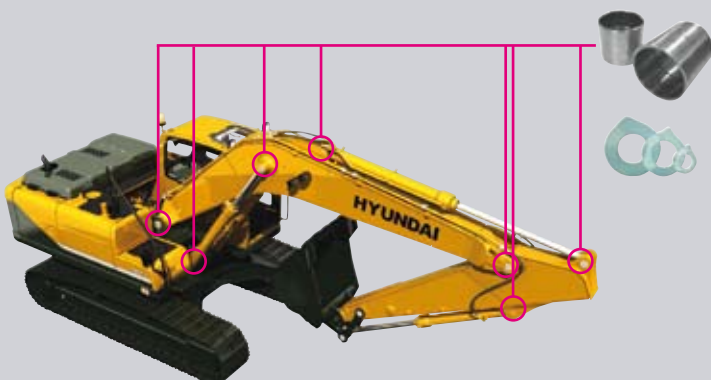
## Fuel Economy

9 series excavators are developed to do more work with less fuel. Implemented innovations like the variable speed hydraulic driven fan, three-stage auto decel system and the new economy mode, are helping to save fuel and reduce the impact on the environment.



## Easy Access

Access from ground to filters, lube fittings, fuses, drains and machine computer components, combined with wide open compartments makes servicing the 9-series a pleasure for your mechanics.



## Extended Life of Components

New long-life bushings are designed for extended lube intervals. Wear-resistant polymer shims reduce noise and reduce wear of bushings. Extended-life hydraulic filters last up to 1,000 hrs and new long-life hydraulic oil need only be changed every 5,000 hrs.

# Specifications

## ENGINE

MODEL	CUMMINS QSC		
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)	278 HP (213 kW) / 1,750 rpm
		J1349 (net)	263 HP (196 kW) / 1,750 rpm
	DIN	6271/1 (gross)	282 PS (213 kW) / 1,750 rpm
		6271/1 (net)	267 PS (196 kW) / 1,750 rpm
Max. torque	123.7 kgf.m (895 lbf.ft) / 1,500 rpm		
Bore x stroke	114 mm x 135 mm (4.5" x 5.3")		
Piston displacement	8,300 cc (506 in <sup>3</sup> )		
Batteries	2 x 12V x 160AH		
Starting motor	24 V, 7.5 kW		
Alternator	24 V, 50 Amp		

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Two variable displacement piston pumps
Max. flow	2 x 270 L/min (68.7 US gpm/57.2 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system	
HYDRAULIC MOTORS	
Travel	Two speed axial piston motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm <sup>2</sup> (4,690 psi)
Travel	350 kgf/cm <sup>2</sup> (4,690 psi)
Power boost (boom, arm, bucket)	380 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	300 kgf/cm <sup>2</sup> (3,770 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (500 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
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	9.2 rpm

## COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	500	132.1	110.0
Engine coolant	45.0	11.9	9.9
Engine oil	35	9.2	7.7
Swing device - gear oil	11	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 6,450 mm (21' 2") boom; 3,200 mm (10' 6") arm, SAE heaped 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	8,320 kg (18,340 lb)
Counterweight	6,200 kg (13,670 lb)
Boom (with arm cylinder)	3,030 kg (6,680 lb)
Arm (with bucket cylinder)	1,770 kg (3,900 lb)

OPERATING WEIGHT				
Shoes			Operating weight	Ground pressure
Type	Width mm (in)		kg (lb)	kgf/cm <sup>2</sup> (psi)
Triple grouser	600 (24")	R320LC-9	33,000 (72,750)	0.63 (8.96)
		R320NLC-9	32,800 (72,310)	0.63 (8.96)
		R320LC-9 H/W	35,500 (78,260)	0.68 (9.67)
	700 (28")	R320LC-9	33,600 (74,070)	0.55 (7.82)
		R320LC-9 H/W	36,100 (79,590)	0.59 (8.39)
		R320LC-9	34,000 (74,960)	0.49 (6.97)
800 (32")	R320LC-9 H/W	36,500 (80,470)	0.53 (7.54)	
	R320LC-9	34,400 (75,840)	0.44 (6.26)	
Double grouser	700 (28")	R320LC-9 H/W	37,000 (81,570)	0.61 (8.67)



## BUCKETS

All buckets are welded with high-strength steel.



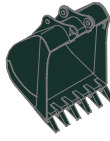
0.90 (1.18)



1.14 (1.49)



1.44 (1.88)



1.74 (2.28)

2.10 (2.75)



■ 1.44 (1.88)



● 1.44 (1.88)

● 1.73 (2.26)

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		6.45 (21' 2") Boom				6.15 (20' 2") Boom
					2.2 (7' 3") Arm	2.5 (8' 2") Arm	3.2 (10' 6") Arm	4.05 (13' 3") Arm	2.2 (7' 3") Arm
0.90 (1.18)	0.80 (1.05)	950 (37.4)	1,070 (42.1)	870 (1920)	●	●	●	■	●
1.14 (1.49)	1.00 (1.31)	1,110 (43.7)	1,230 (48.4)	980 (2160)	●	●	●	■	●
1.44 (1.88)	1.25 (1.63)	1,380 (54.3)	1,500 (59.1)	1,110 (2450)	●	●	■	▲	●
1.74 (2.28)	1.50 (1.96)	1,620 (63.8)	1,740 (68.5)	1,230 (2710)	■	■	▲	-	●
2.10 (2.75)	1.80 (2.35)	1,910 (75.2)	2,030 (79.9)	1,370 (3020)	▲	▲	-	-	■
■ 1.44 (1.88)	1.25 (1.63)	1,470 (57.9)	-	1,380 (3040)	●	●	■	-	●
● 1.44 (1.88)	1.25 (1.63)	1,470 (57.9)	-	1,470 (3240)	●	●	■	-	●
● 1.73 (2.26)	1.50 (1.96)	1,710 (67.3)	-	1,610 (3550)	■	■	-	-	●

■ Heavy-duty 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

■ 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. 6.45 m and 6.15 m booms and 2.2 m; 2.5 m; 2.92 m; 3.2 m & 4.05 m arms are available.

## DIGGING FORCE

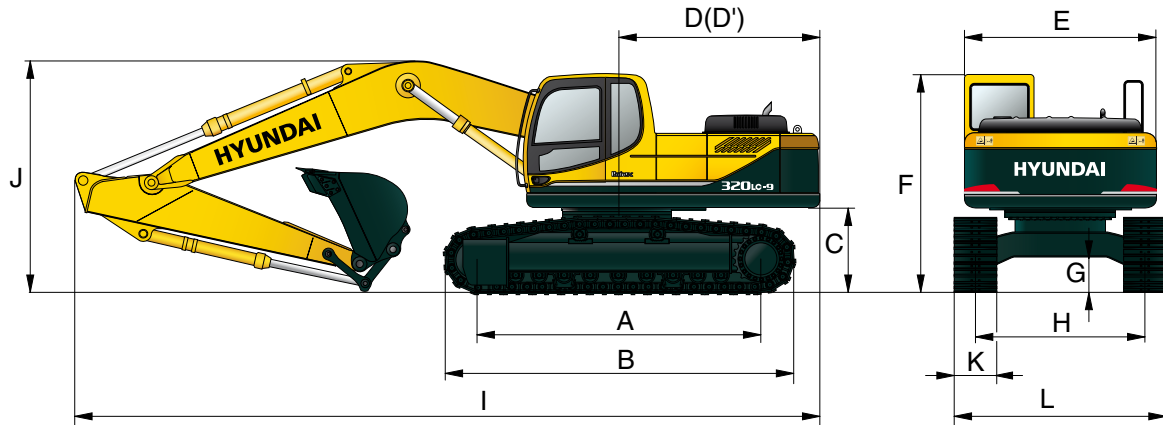
Boom	Length	mm (ft.in)	6,450 (21' 2")				Remarks
	Weight	kg (lb)	3,030 (6,680)				
Arm	Length	mm (ft.in)	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	[ ]: Power Boost
	Weight	kg (lb)	1,560 (3,440)	1,650 (3,640)	1,770 (3,900)	1,870 (4,120)	
Bucket digging force	SAE	kN	189.3 [205.5]	189.3 [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 Ranges

## DIMENSIONS R320LC-9 / R320NLC-9

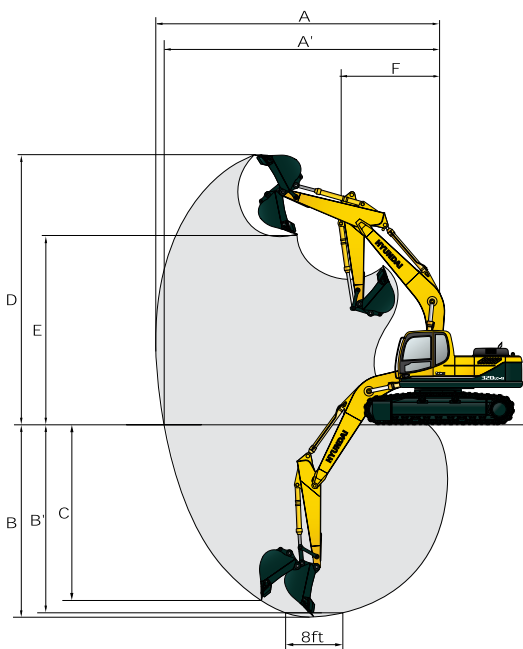


mm (ft · in)

		mm (ft · in)						mm (ft · in)				
A	Tumbler distance	R320LC-9	4,030 (13' 3")				I	Overall length	11,230 (36' 10")			
	R320NLC-9	4,030 (13' 3")				J		Overall height of boom	3,640 (11' 11")			
B	Overall length of crawler	4,940 (16' 2")					K	Track shoe width	600 (24")			
C	Ground clearance of counterweight	1,200 (3' 11")				L		Overall width	R320LC-9	3,280 (10' 9")		
D	Tail swing radius	3,330 (10' 11")					R320NLC-9		2,990 (9' 10")			-
D'	Rear-end length	3,265 (10' 9")				Boom length			6,450 (21' 2")			
E	Overall width of upperstructure	2,980 (9' 9")					Arm length		2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")
F	Overall height of cab	3,090 (10' 2")				Overall length			11,230 (36' 10")	11,100 (36' 5")	10,980 (36' 0")	10,980 (36' 0")
G	Min. ground clearance	500 (1' 8")					Overall height of boom		3,640 (11' 11")	3,670 (12' 0")	3,380 (11' 1")	3,860 (12' 8")
H	Track gauge	R320LC-9	2,680 (8' 10")			Overall width			600 (24")	700 (28")	800 (32")	900 (36")
		R320NLC-9	2,390 (7' 10")						3,280 (10' 9")	3,380 (11' 1")	3,480 (11' 5")	3,580 (11' 9")

## WORKING RANGES R320LC-9 / R320NLC-9

mm (ft · in)

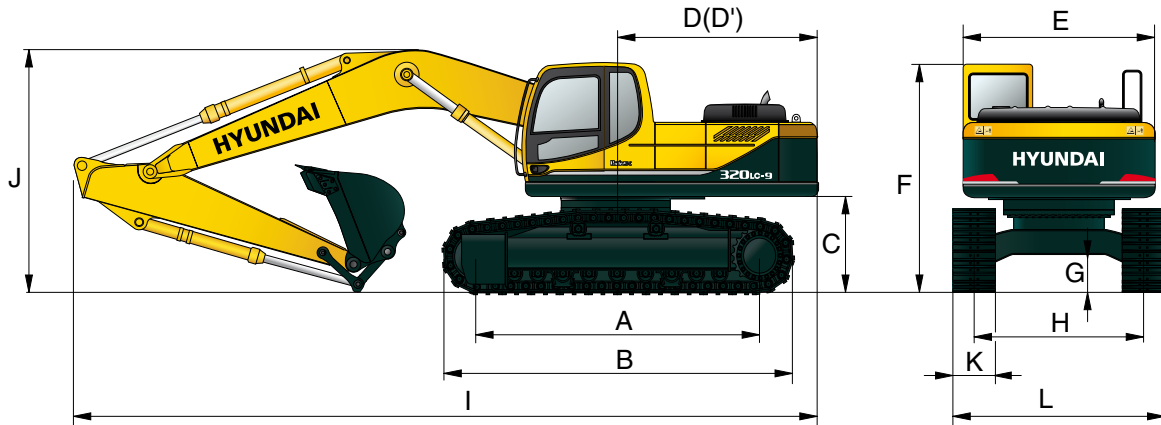


		mm (ft · in)						mm (ft · in)			
A	Max. digging reach	10,330 (33' 11")				B	Max. digging depth	6,370 (20' 11")			
	A'	Max. digging reach on ground	10,110 (33' 2")				B'	Max. digging depth (8' level)	6,160 (20' 3")		
C	Max. vertical wall digging depth	5,980 (19' 7")			D	Max. digging height		10,220 (33' 6")			9,940 (32' 7")
	E	Max. dumping height	7,050 (23' 2")			F	Min. swing radius	4,700 (15' 5")			4,520 (14' 10")
D		Max. digging height	10,170 (33' 4")				Arm length		2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")
	E	Max. dumping height	7,240 (23' 9")			Max. digging reach			10,330 (33' 11")	10,550 (34' 7")	11,140 (36' 7")
F		Min. swing radius	4,470 (14' 8")				Max. digging reach on ground		10,110 (33' 2")	10,330 (33' 11")	10,940 (35' 11")
	B	Max. digging depth	6,670 (21' 11")			Max. digging depth (8' level)			6,370 (20' 11")	6,670 (21' 11")	7,370 (24' 2")
B'		Max. digging depth (8' level)	6,470 (21' 3")				Max. vertical wall digging depth		6,160 (20' 3")	6,470 (21' 3")	7,210 (23' 8")
	C	Max. vertical wall digging depth	5,920 (19' 5")			Max. digging height			5,980 (19' 7")	5,920 (19' 5")	6,360 (20' 10")
D		Max. digging height	10,310 (33' 10")				Max. dumping height		10,170 (33' 4")	10,310 (33' 10")	10,710 (35' 2")



# Dimensions & Working Ranges

## DIMENSIONS R320LC-9 HIGH WALKER



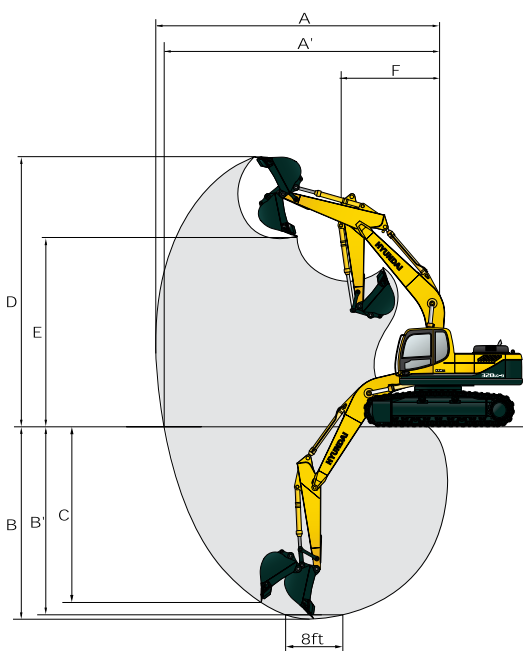
mm (ft · in)

mm (ft · in)

A Tumbler distance	4,030 (13' 3")	Boom length	6,450 (21' 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	11,220 (36' 10")	11,100 (36' 5")	10,910 (35' 10")	11,000 (36' 1")	10,920 (35' 10")
D Tail swing radius	3,330 (10' 11")	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	3,265 (10' 9")	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")
F Overall height of cab	3,390 (11' 1")	L Overall width	3,470 (11' 5")	3,570 (11' 9")	3,670 (12' 0")	3,580 (11' 9")	
G Min. ground clearance	765 (2' 6")						
H Track gauge	2,870 (9' 5")						

## WORKING RANGES R320LC-9 HIGH WALKER

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")

# Lifting Capacities

## R320LC-9



Rating over-front



Rating over-side or 360 degrees

Boom : 6.45 m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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)		9.0 m (30.0 ft)		Capacity		Reach	
														m (ft)	
7.5 m (25.0 ft)	kg												*6720	5040	8.34
	lb												*14820	11110	(27.4)
6.0 m (20.0 ft)	kg							*7320	5980				6430	4100	9.19
	lb							*16140	13180				14180	9040	(30.2)
4.5 m (15.0 ft)	kg			*11600	*11600	*9120	8430	*7930	5770				5740	3600	9.70
	lb			*25570	*25570	*20110	18580	*17480	12720				12650	7940	(31.8)
3.0 m (10.0 ft)	kg			*15130	12220	*10770	7870	8690	5490				5420	3360	9.92
	lb			*33360	26940	*23740	17350	19160	12100				11950	7410	(32.5)
1.5 m (5.0 ft)	kg			*17590	11360	12060	7390	8400	5240	6240	3860		5380	3310	9.88
	lb			*38780	25040	26590	16290	18520	11550	13760	8510		11860	7300	(32.4)
Ground Line	kg			*18360	11070	11730	7110	8200	5060				5630	3470	9.57
	lb			*40480	24410	25860	15670	18080	11160				12410	7650	(31.4)
-1.5 m (-5.0 ft)	kg	*15010	*15010	*18010	11060	11630	7010	8130	4990				6280	3890	8.97
	lb	*33090	*33090	*39710	24380	25640	15450	17920	11000				13850	8580	(29.4)
-3.0 m (-10.0 ft)	kg	*22800	*22800	*16720	11240	11710	7090						7670	4800	7.98
	lb	*50270	*50270	*36860	24780	25820	15630						16910	10580	(26.2)
-4.5 m (-15.0 ft)	kg	*19110	*19110	*14080	11620	*10340	7380						*7300	7080	6.42
	lb	*42130	*42130	*31040	25620	*22800	16270						*16090	15610	(21.1)

Boom : 6.45 m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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									*5240	*5240				*5970	4370	9.06
	lb									*11550	*11550				*13160	9630	(29.7)
6.0 m (20.0 ft)	kg									*6500	6100				5730	3620	9.84
	lb									*14330	13450				12630	7980	(32.3)
4.5 m (15.0 ft)	kg							*8090	*8090	*7190	5850	*5440	4150	5160	3200	10.31	
	lb							*17840	*17840	*15850	12900	*11990	9150	11380	7050	(33.8)	
3.0 m (10.0 ft)	kg					*13400	12620	*9820	7990	*8110	5530	6390	3990	4880	2990	10.52	
	lb					*29540	27820	*21650	17610	*17880	12190	14090	8800	10760	6590	(34.5)	
1.5 m (5.0 ft)	kg					*16400	11540	*11460	7430	8400	5220	6210	3830	4830	2930	10.48	
	lb					*36160	25440	*25260	16380	18520	11510	13690	8440	10650	6460	(34.4)	
Ground Line	kg			*10240	*10240	*17910	11010	11690	7060	8140	4990	6080	3710	5020	3040	10.19	
	lb			*22580	*22580	*39480	24270	25770	15560	17950	11000	13400	8180	11070	6700	(33.4)	
-1.5 m (-5.0 ft)	kg	*11380	*11380	*14470	*14470	*18150	10860	11490	6880	8010	4870			5500	3350	9.63	
	lb	*25090	*25090	*31900	*31900	*40010	23940	25330	15170	17660	10740			12130	7390	(31.6)	
-3.0 m (-10.0 ft)	kg	*15350	*15350	*19470	*19470	*17370	10940	11490	6880	8020	4800			6500	4010	8.74	
	lb	*33840	*33840	*42920	*42920	*38290	24120	25330	15170	17680	10760			14330	8840	(28.7)	
-4.5 m (-15.0 ft)	kg			*21820	*21820	*15410	11220	*11430	7060					*7480	5470	7.37	
	lb			*48100	*48100	*33970	24740	*25200	15560					*16490	12060	(24.2)	
-6.0 m (-20.0 ft)	kg					*11340	*11340										
	lb					*25000	*25000										

Boom : 6.45 m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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														*5250	3640	10.00
	lb														*11570	8020	(32.8)
6.0 m (20.0 ft)	kg											*4530	4380	4940	3080	10.71	
	lb											*9990	9660	10890	6790	(35.1)	
4.5 m (15.0 ft)	kg									*6270	6000	*5750	4250	4500	2750	11.13	
	lb									*13820	13230	*12680	9370	9920	6060	(36.5)	
3.0 m (10.0 ft)	kg			*18220	*18220	*11250	*11250	*8610	8250	*7280	5660	6460	4060	4280	2570	11.32	
	lb			*40170	*40170	*24800	*24800	*18980	18190	*16050	12480	14240	8950	9440	5670	(37.1)	
1.5 m (5.0 ft)	kg			*10440	*10440	*14750	12000	*10470	7630	*8360	5310	6240	3860	4230	2520	11.29	
	lb			*23020	*23020	*32520	26460	*23080	16820	*18430	11710	13760	8510	9330	5560	(37.0)	
Ground Line	kg			*10810	*10810	*17060	11210	11810	7150	8180	5020	6060	3690	4360	2590	11.03	
	lb			*23830	*23830	*37610	24710	26040	15760	18030	11070	13360	8140	9610	5710	(36.2)	
-1.5 m (-5.0 ft)	kg	*9850	*9850	*13390	*13390	*18030	10860	11490	6880	7980	4830	5950	3580	4700	2810	10.52	
	lb	*21720	*21720	*29520	*29520	*39750	23940	25330	15170	17590	10650	13120	7890	10360	6190	(34.5)	
-3.0 m (-10.0 ft)	kg	*13020	*13020	*16980	*16980	*17900	10800	11380	6780	7900	4770	5930	3570	5390	3270	9.72	
	lb	*28700	*28700	*37430	*37430	*39460	23810	25090	14950	17420	10520	13070	7870	11880	7210	(31.9)	
-4.5 m (-15.0 ft)	kg	*16670	*16670	*21800	*21800	*16680	10950	11460	6850	7980	4840			6760	4180	8.53	
	lb	*36750	*36750	*48060	*48060	*36770	24140	25260	15100	17590	10670			14900	9220	(28.0)	
-6.0 m (-20.0 ft)	kg			*20030	*20030	*13950	11330	*10120	7130					*6790	6430	6.71	
	lb			*44160	*44160	*30750	24980	*22310	15720					*14970	14180	(22.0)	

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 Capacities













## R320LC-9

 Rating over-front  Rating over-side or 360 degrees













Boom : 6.45 m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 800 mm (32") triple grouser with 6,200 kg (13,670 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)		9.0 m (30.0 ft)		Capacity		Reach	
														m (ft)	
7.5 m (25.0 ft)	kg												*6720	5190	8.34
	lb												*14820	11440	(27.4)
6.0 m (20.0 ft)	kg							*7320	6150				6630	4230	9.19
	lb							*16140	13560				14620	9330	(30.2)
4.5 m (15.0 ft)	kg			*11600	*11600	*9120	8660	*7930	5940				5930	3720	9.70
	lb			*25570	*25570	*20110	19090	*17480	13100				13070	8200	(31.8)
3.0 m (10.0 ft)	kg			*15130	12550	*10770	8090	*8770	5660				5600	3480	9.92
	lb			*33360	27670	*23740	17840	*19330	12480				12350	7670	(32.5)
1.5 m (5.0 ft)	kg			*17590	11700	*12210	7610	8660	5400	6440	4000		5570	3440	9.88
	lb			*38780	25790	*26920	16780	19090	11900	14200	8820		12280	7580	(32.4)
Ground Line	kg			*18360	11400	12100	7330	8470	5230				5820	3590	9.57
	lb			*40480	25130	26680	16160	18670	11530				12830	7910	(31.4)
-1.5 m (-5.0 ft)	kg	*15010	*15010	*18010	11400	11990	7240	8400	5160				6490	4030	8.97
	lb	*33090	*33090	*39710	25130	26430	15960	18520	11380				14310	8880	(29.4)
-3.0 m (-10.0 ft)	kg	*22800	*22800	*16720	11570	12070	7310						7910	4960	7.98
	lb	*50270	*50270	*36860	25510	26610	16120						17440	1930	(26.2)
-4.5 m (-15.0 ft)	kg	*19110	*19110	*14080	11950	*10340	7600						*7300	7290	6.42
	lb	*42130	*42130	*31040	26350	*22800	16760						*16090	16070	(21.1)

Boom : 6.45 m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 800 mm (32") triple grouser with 6,200 kg (13,670 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									*5240	*5240			*5970	4500	9.06
	lb									*11550	*11550			*13160	9920	(29.7)
6.0 m (20.0 ft)	kg									*6500	6270			5910	3740	9.84
	lb									*14330	13820			13030	8250	(32.3)
4.5 m (15.0 ft)	kg						*8090	*8090	*7190	6020	*5440	4290		5330	3320	10.31
	lb						*17840	*17840	*15850	13270	*11990	9460		11750	7320	(33.8)
3.0 m (10.0 ft)	kg				*13400	12950	*9820	8210	*8110	5700	6590	4130		5050	3100	10.52
	lb				*29540	28550	*21650	18100	*17880	12570	14530	9110		11130	6830	(34.5)
1.5 m (5.0 ft)	kg				*16400	11870	*11460	7660	8660	5390	6420	3970		5010	3050	10.48
	lb				*36160	26170	*25260	16890	19090	11880	14150	8750		11050	6720	(34.4)
Ground Line	kg			*10240	*10240	*17910	11350	12060	7280	8410	5160	6280	3840	5190	3160	10.19
	lb			*22580	*22580	*39480	25020	26590	16050	18540	11380	13850	8470	11440	6970	(33.4)
-1.5 m (-5.0 ft)	kg	*11380	*11380	*14470	*14470	*18150	11200	11850	7110	8270	5040			5690	3480	9.63
	lb	*25090	*25090	*31900	*31900	*40010	24690	26120	15670	18230	11110			12540	7670	(31.6)
-3.0 m (-10.0 ft)	kg	*15350	*15350	*19470	*19470	*17370	11280	11850	7110	8280	5050			6710	4150	8.74
	lb	*33840	*33840	*42920	*42920	*38290	24870	26120	15670	18250	11130			14790	9150	(28.7)
-4.5 m (-15.0 ft)	kg			*21820	*21820	*15410	11560	*11430	7290					*7480	5640	7.37
	lb			*48100	*48100	*33970	2490	*25200	16070					*16490	12430	(24.2)
-6.0 m (-20.0 ft)	kg					*11340	*11340									
	lb					*25000	*25000									

Boom : 6.45 m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 800 mm (32") triple grouser with 6,200 kg (13,670 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													*5250	3760	10.00
	lb													*11570	8290	(32.8)
6.0 m (20.0 ft)	kg											*4530	4520	5110	3190	10.71
	lb											*9990	9960	11270	7030	(35.1)
4.5 m (15.0 ft)	kg									*6270	6170	*5750	4380	4660	2850	11.13
	lb									*13820	13600	*12680	9600	10270	6280	(36.5)
3.0 m (10.0 ft)	kg			*18220	*18220	*11250	*11250	*8610	8480	*7280	5820	*6530	4190	4440	2670	11.32
	lb			*40170	*40170	*24800	*24800	*18980	18700	*16050	12830	*14400	9240	9790	5890	(37.1)
1.5 m (5.0 ft)	kg			*10440	*10440	*14750	12330	*10470	7850	*8360	5480	6450	3990	4390	2620	11.29
	lb			*23020	*23020	*32520	27180	*23080	17310	*18430	12080	14220	8800	9680	5780	(37.0)
Ground Line	kg			*10810	*10810	*17060	11540	*11950	7380	8440	5190	6270	3820	4520	2700	11.03
	lb			*23830	*23830	*37610	25440	*26350	16270	18610	11440	13820	8420	9960	5950	(36.2)
-1.5 m (-5.0 ft)	kg	*9850	*9850	*13390	*13390	*18030	11190	11860	7100	8240	5000	6150	3720	4870	2930	10.52
	lb	*21720	*21720	*29520	*29520	*39750	24670	26150	15650	18170	11020	13560	8200	10740	6460	(34.5)
-3.0 m (-10.0 ft)	kg	*13020	*13020	*16980	*16980	*17900	11130	11750	7000	8160	4930	6140	3710	5570	3390	9.72
	lb	*28700	*28700	*37430	*37430	*39460	24540	25900	15430	17990	10870	13540	8180	12280	7470	(31.9)
-4.5 m (-15.0 ft)	kg	*16670	*16670	*21800	*21800	*16680	11280	11830	7080	8240	5010			6980	4320	8.53
	lb	*36750	*36750	*48060	*48060	*36770	24870	26080	15610	18170	11050			15390	9520	(28.0)
-6.0 m (-20.0 ft)	kg			*20030	*20030	*13950	11670	*10120	7360					*6790	6630	6.71
	lb			*44160	*44160	*30750	25730	*22310	16230					*14970	14620	(22.0)













- 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













## R320NLC-9

 Rating over-front  Rating over-side or 360 degrees













Boom : 6.45 m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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)		9.0 m (30.0 ft)		Capacity		Reach
														m (ft)
7.5 m	kg											*6720	4240	8.34
(25.0 ft)	lb											*14820	9350	(27.4)
6.0 m	kg							*7320	5050			6390	3410	9.19
(20.0 ft)	lb							*16140	11130			14090	7520	(30.2)
4.5 m	kg			*11600	11300	*9120	7100	*7930	4840			5700	2960	9.70
(15.0 ft)	lb			*25570	24910	*20110	15650	*17480	10670			12570	6530	(31.8)
3.0 m	kg			*15130	10060	*10770	6560	8630	4570			5380	2740	9.92
(10.0 ft)	lb			*33360	22180	*23740	14460	19030	10080			11860	6040	(32.5)
1.5 m	kg			*17590	9250	11980	6100	8350	4320	6190	3160	5340	2690	9.88
(5.0 ft)	lb			*38780	20390	26410	13450	18410	9520	13650	6970	11770	5930	(32.4)
Ground Line	kg			*18360	8980	11660	5830	8150	4150			5590	2820	9.57
	lb			*40480	19800	25710	12850	17970	9150			12320	6220	(31.4)
-1.5 m	kg	*15010	*15010	*18010	8970	11550	5740	8080	4080			6230	3180	8.97
(-5.0 ft)	lb	*33090	*33090	*39710	19780	25460	12650	17810	8990			13730	7010	(29.4)
-3.0 m	kg	*22800	18590	*16720	9130	11640	5810					7620	3960	7.98
(-10.0 ft)	lb	*50270	40980	*36860	20130	25660	12810					16800	8730	(26.2)
-4.5 m	kg	*19110	*19110	*14080	9490	*10340	6090					*7300	5910	6.42
(-15.0 ft)	lb	*42130	*42130	*31040	20920	*22800	13430					*16090	13030	(21.1)

Boom : 6.45 m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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	kg									*5240	*5240			*5970	3650	9.06		
(25.0 ft)	lb									*11550	*11550			*13160	8050	(29.7)		
6.0 m	kg									*6500	5160			5690	2990	9.84		
(20.0 ft)	lb									*14330	11380			12540	6590	(32.3)		
4.5 m	kg							*8090	7260	*7190	4910	*5440	3440	5120	2610	10.31		
(15.0 ft)	lb							*17840	16010	*15850	10820	*11990	7580	11290	5750	(33.8)		
3.0 m	kg					*13400	10430	*9820	6670	*8110	4600	6340	3280	4850	2410	10.52		
(10.0 ft)	lb					*29540	22990	*21650	14700	*17880	10140	13980	7230	10690	5310	(34.5)		
1.5 m	kg					*16400	9410	*11460	6140	8340	4310	6170	3120	4800	2360	10.48		
(5.0 ft)	lb					*36160	20750	*25260	13540	18390	9500	13600	6880	10580	5200	(34.4)		
Ground Line	kg					*10240	*10240	*17910	8920	11620	5780	8090	4080	6030	3000	4980	2440	10.19
	lb					*22580	*22580	*39480	19670	25620	12740	17840	8990	13290	6610	10980	5380	(33.4)
-1.5 m	kg	*11380	*11380	*14470	*14470	*18150	8780	11410	5610	7950	3960			5460	2710	9.63		
(-5.0 ft)	lb	*25090	*25090	*31900	*31900	*40010	19360	25150	12370	17530	8730			12040	5970	(31.6)		
-3.0 m	kg	*15350	*15350	*19470	17990	*17370	8850	11410	5610	7960	3970			6450	3280	8.74		
(-10.0 ft)	lb	*33840	*33840	*42920	39660	*38290	19510	25150	12370	17550	8750			14220	7230	(28.7)		
-4.5 m	kg					*21820	18520	*15410	9110	*11430	5780			*7480	4520	7.37		
(-15.0 ft)	lb					*48100	40830	*33970	20080	*25200	12740			*16490	9960	(24.2)		
-6.0 m	kg							*11340	9660									
(-20.0 ft)	lb							*25000	21300									

Boom : 6.45 m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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	kg													*5250	3010	10.00		
(25.0 ft)	lb													*11570	6640	(32.8)		
6.0 m	kg											*4530	3660	4910	2510	10.71		
(20.0 ft)	lb											*9990	8070	10820	5530	(35.1)		
4.5 m	kg											*6270	5060	*5750	3530	4470	2210	11.13
(15.0 ft)	lb											*13820	11160	*12680	7780	9850	4870	(36.5)
3.0 m	kg					*18220	*18220	*11250	11040	*8610	6930	*7280	4720	6410	3340	4250	2050	11.32
(10.0 ft)	lb					*40170	*40170	*24800	24340	*18980	15280	*16050	10410	14130	7360	9370	4520	(37.1)
1.5 m	kg					*10440	*10440	*14750	9840	*10470	6320	*8360	4390	6200	3150	4200	2000	11.29
(5.0 ft)	lb					*23020	*23020	*32520	21690	*23080	13930	*18430	9680	13670	6940	9260	4410	(37.0)
Ground Line	kg					*10810	*10810	*17060	9090	11730	5870	8130	4110	6020	2980	4330	2050	11.03
	lb					*23830	*23830	*37610	20040	25860	12940	17920	9060	13270	6570	9550	4520	(36.2)
-1.5 m	kg	*9850	*9850	*13390	*13390	*18030	8760	11420	5600	7920	3930	5900	2880	4670	2240	10.52		
(-5.0 ft)	lb	*21720	*21720	*29520	*29520	*39750	19310	25180	12350	17460	8660	13010	6350	10300	4940	(34.5)		
-3.0 m	kg	*13020	*13020	*16980	*16980	*17900	8710	11310	5510	7840	3860	5890	2870	5350	2630	9.72		
(-10.0 ft)	lb	*28700	*28700	*37430	*37430	*39460	19200	24930	12150	17280	8510	12990	6330	11790	5800	(31.9)		
-4.5 m	kg	*16670	*16670	*21800	18000	*16680	8850	11390	5580	7920	3930			6710	3410	8.53		
(-15.0 ft)	lb	*36750	*36750	*48060	39680	*36770	19510	25110	12300	17460	8660			14790	7520	(28.0)		
-6.0 m	kg					*20030	18700	*13950	9210	*10120	5850			*6790	5340	6.71		
(-20.0 ft)	lb					*44160	41230	*30750	20300	*22310	12900			*14970	11770	(22.0)		












- 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













## R320LC-9 / HIGH WALKER

 Rating over-front  Rating over-side or 360 degrees













Boom : 6.45 m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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)		9.0 m (30.0 ft)		Capacity		Reach	
														m (ft)	
7.5 m	kg												*6730	5630	8.53
(25.0 ft)	lb												*14840	12410	(28.0)
6.0 m	kg							*7410	6920				*6840	4700	9.31
(20.0 ft)	lb							*16340	15260				*15080	10360	(30.5)
4.5 m	kg			*12260	*12260	*9420	*9420	*8070	6690				6250	4210	9.76
(15.0 ft)	lb			*27030	*27030	*20770	*20770	*17790	14750				13780	9280	(32.0)
3.0 m	kg			*15720	14150	*11070	9100	*8930	6400	7000	4710		5970	4000	9.93
(10.0 ft)	lb			*34660	31200	*24410	20060	*19690	14110	15430	10380		13160	8820	(32.6)
1.5 m	kg			*17850	13390	*12430	8650	9190	6150				5990	3990	9.84
(5.0 ft)	lb			*39350	29520	*27400	19070	20260	13560				13210	8800	(32.3)
Ground Line	kg			*18370	13170	12850	8400	9020	5990				6330	4220	9.48
	lb			*40500	29030	28330	18520	19890	13210				13960	9300	(31.1)
-1.5 m	kg	*16360	*16360	*17850	13200	12780	8330	8970	5950				7140	4780	8.82
(-5.0 ft)	lb	*36070	*36070	*39350	29100	28180	18360	19780	13120				15740	10540	(28.9)
-3.0 m	kg	*22580	*22580	*16360	13410	*12250	8440						*7890	5990	7.75
(-10.0 ft)	lb	*49780	*49780	*36070	29560	*27010	18610						*17390	13210	(25.4)
-4.5 m	kg	*18050	*18050	*13340	*13340										
(-15.0 ft)	lb	*39790	*39790	*29410	*29410										

Boom : 6.45 m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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	kg									*5730	*5730			*5990	4920	9.24
(25.0 ft)	lb									*12630	*12630			*13210	10850	(30.3)
6.0 m	kg									*6600	*6600			*6130	4180	9.95
(20.0 ft)	lb									*14550	*14550			*13510	9220	(32.6)
4.5 m	kg							*8400	*8400	*7350	6760	*5820	4880	5660	3770	10.37
(15.0 ft)	lb							*18520	*18520	*16200	14900	*12830	10760	12480	8310	(34.0)
3.0 m	kg				*14050	*14050	*10150	9210	*8290	6430	7030	4710	5420	3580	10.53	
(10.0 ft)	lb				*30970	*30970	*22380	20300	*18280	14180	15500	10380	11950	7890	(34.5)	
1.5 m	kg				*16800	13530	*11720	8680	*9210	6130	6860	4550	5420	3560	10.45	
(5.0 ft)	lb				*37040	29830	*25840	19140	*20300	13510	15120	10030	11950	7850	(34.3)	
Ground Line	kg			*10990	*10990	*18040	13080	*12750	8330	8980	5920	6740	4440	5670	3720	10.11
	lb			*24230	*24230	*39770	28840	*28110	18360	19800	13050	14860	9790	12500	8200	(33.2)
-1.5 m	kg	*12090	*12090	*15330	*15330	*18080	12980	12670	8190	8870	5820		6270	4140	9.50	
(-5.0 ft)	lb	*26650	*26650	*33800	*33800	*39860	28620	27930	18060	19550	12830		13820	9130	(31.2)	
-3.0 m	kg	*16150	*16150	*20540	*20540	*17110	13090	*12630	8220	8910	5850		7510	5000	8.53	
(-10.0 ft)	lb	*35600	*35600	*45280	*45280	*37720	28860	*27840	18120	19640	12900		16560	11020	(28.0)	
-4.5 m	kg			*20940	*20940	*14870	13430	*10980	8450				*7390	6990	7.03	
(-15.0 ft)	lb			*46160	*46160	*32780	29610	*24210	18630				*16290	15410	(23.1)	

Boom : 6.45 m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m<sup>3</sup> (1.88 yd<sup>3</sup>) SAE heaped / Shoe : 600 mm (24") triple grouser with 6,200 kg (13,670 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	kg											*3030	*3030	*5280	4150	10.16	
(25.0 ft)	lb											*6680	*6680	*11640	9150	(33.3)	
6.0 m	kg												*4770	*4770	5370	3600	10.81
(20.0 ft)	lb												*10520	*10520	11840	7940	(35.5)
4.5 m	kg									*6440	*6440	*5980	4970	4950	3270	11.19	
(15.0 ft)	lb									*14200	*14200	*13180	10960	10910	7210	(36.7)	
3.0 m	kg			*20040	*20040	*11950	*11950	*8970	*8970	*7490	6560	*6650	4770	4750	3110	11.33	
(10.0 ft)	lb			*44180	*44180	*26350	*26350	*19780	*19780	*16510	14460	*14660	10520	10470	6860	(37.2)	
1.5 m	kg			*10150	*10150	*15290	13960	*10790	8860	*8550	6210	6870	4570	4740	3090	11.26	
(5.0 ft)	lb			*22380	*22380	*33710	30780	*23790	19530	*18850	13690	15150	10080	10450	6810	(36.9)	
Ground Line	kg	*7400	*7400	*11200	*11200	*17340	13230	*12170	8410	8970	5940	6690	4410	4920	3200	10.95	
	lb	*16310	*16310	*24690	*24690	*38230	29170	*26830	18540	19780	13100	14750	9720	10850	7050	(35.9)	
-1.5 m	kg	*10420	*10420	*13990	*13990	*18090	12940	12600	8160	8790	5770	6590	4320	5350	3500	10.39	
(-5.0 ft)	lb	*22970	*22970	*30840	*30840	*39880	28530	27780	17990	19380	12720	14530	9520	11790	7720	(34.1)	
-3.0 m	kg	*13660	*13660	*17770	*17770	*17760	12920	12530	8100	8740	5720		6190	4090	9.53		
(-10.0 ft)	lb	*30120	*30120	*39180	*39180	*39150	28480	27620	17860	19270	12610		13650	9020	(31.3)		
-4.5 m	kg	*17430	*17430	*22910	*22910	*16310	13120	*12000	8200	8860	5830		*7060	5280	8.25		
(-15.0 ft)	lb	*38430	*38430	*50510	*50510	*35960	28920	*26460	18080	19530	12850		*15560	11640	(27.1)		
-6.0 m	kg			*18860	*18860	*13180	*13180	*9410	8550								
(-20.0 ft)	lb			*41580	*41580	*29060	*29060	*20750	18850								

- 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  
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

### Automatic temperature 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  
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 (6,200 kg; 13,670 lb)

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

### Track rail guard

### Hydraulic driven fan

### Accumulator for lowering work equipment

### 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

6.15 m; 20' 2"

6.45 m; 21' 2"

6.45 m; 21' 2" Heavy Duty

### Arm

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"

### Temperature control

Air conditioner only

Heater only

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

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

### Cabin roof-steel cover

### Rain guard - front window

### Cabin lights

### 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

### Additional cover under lower frame

### Coolant pre-heating system

### Tool kit

### Operator suit

### 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

