

STANDARD EQUIPMENT

ISO Standard cabin
All-weather steel cab with 360° visibility
Safety glass windows
Rise-up type windshield wiper
Sliding side window(LH)
Lockable door
Hot & cool box
Storage compartment & Ashtray
Transparent cabin roof-cover
Radio / USB Player
12 volt power outlet (24V DC to 12V DC converter)
Handsfree mobile phone system with USB
Sun visor
Computer aided power optimization (New CAPO) system
3-power mode, 2-work mode, User mode
Auto deceleration & one-touch deceleration system
Auto warm-up system
Auto overheat prevention system
Automatic climate control
Air conditioner & heater
Defroster
Self-diagnostics system
Starting Aid (air grid heater) for cold weather
Centralized monitoring
LCD display
Engine speed or Trip meter/Accel.
Clock
Gauges
Fuel level gauge
Engine coolant temperature gauge
Hyd. oil temperature gauge
Warnings
Check Engine
Overload
Communication error
Low battery
Air cleaner clogging
Indicators
Max power
Low speed/High speed
Fuel warmer
Auto idle
Door and cab locks, one key
Three outside rearview mirrors
Fully adjustable suspension seat with seat belt
Pilot-operated slidable joystick
Console box height adjust system
Four front working lights
Electric horn
Batteries (2 x 12V x 160 AH)
Battery master switch
Removable clean-out dust net for oil cooler
Automatic swing brake
Removable reservoir tank
Fuel pre-filter with fuel warmer
Boom holding system
Arm holding system
Track shoes (600mm, 24")
Track rail guard
Accumulator for lowering work equipment
Electric transducer
Lower frame under cover (Normal)

OPTIONAL EQUIPMENT

Fuel filler pump (50 L/min)
Beacon lamp
Safety lock valve for boom cylinder with overload warning device
Safety lock valve for arm cylinder
Single-acting piping kit (breaker, etc.)
Double-acting piping kit (clamshell, etc.)
Quick coupler
Travel alarm
Booms
6.15 m, 20' 2"
6.45 m, 21' 2"
6.45 m, 21' 2" Heavy Duty
Arms
2.2 m, 7' 3"
2.5 m, 8' 2"
3.2 m, 10' 6"
3.2 m, 10' 6" Heavy Duty
4.05 m, 13' 3"
Climate control
Air conditioner only
Heater only
Cabin FOPS (ISO 10262 Level II)
FOPS (Falling Object Protective Structure)
Cabin ROPS (ISO 12117-2)
ROPS (Roll Over Protective Structure)
Cabin roof-steel cover
Cabin lights
Cabin front window rain guard
Track shoes
Triple grouzers shoe (700 mm, 28")
Triple grouzers shoe (800 mm, 32")
Triple grouzers shoe (900 mm, 36")
Double grouzers shoe (700 mm, 28")
Full track rail guard
Lower frame under cover (Additional)
Tool kit
Operator suit
Rearview camera
Seat
Adjustable air suspension seat
Adjustable air suspension seat with heater
Mechanical suspension seat
Pattern change valve (2 patterns)
Hi-mate (Remote Management System)

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.

* The photos may include attachments and optional equipment that are not available in your area.

* Materials and specifications are subject to change without advance notice.

* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



Head Office (Sales office)
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MOVING YOU FURTHER

Robex
320LC-9
With Tier 3 Engine installed

*Photo may include optional equipment.



Pride at Work

Hyundai Heavy Industries strives to build state-of-the art earthmoving equipment to give every operator maximum performance, more precision, versatile machine preferences, and proven quality. Take pride in your work with Hyundai!



*Photo may include optional equipment.

Robex 320LC-9

Machine Walk-Around

Engine Technology

Proven / reliable, fuel efficient Cummins Tier III QSC engine
Electronically controlled for optimum fuel to air ratio and clean, efficient combustion
Low noise / Auto engine overheat feature / Anti-restart feature

Hydraulic System Improvements

New patented hydraulic control for improved controllability / Improved control valve design for added efficiency and smoother operation / New auto boom and swing priority system for optimum speed / New auto power boost feature for additional power when needed / Improved arm-in and boom-down flow regeneration system for added speed and efficiency

Pump Compartment

Industry-leading, powerful, reliable Kawasaki designed, variable volume in-line axial piston pumps
New compact solenoid block equipped with 4 solenoid valves, 1 EPPR valve, 1 check valve accumulator and pilot filter - controls 2 speed travel, power boost, boom priority, safety lock

Enhanced Operator Cab

Improved Visibility
Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation
Larger right-side glass, now one piece, for better right visibility
Safety glass windows on all sides - less expensive than (polycarbonate) and won't scratch or fade
Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

Improved Cab Construction
New steel tube construction for added operator safety, protection and durability
New window open/close mechanism designed with cable and spring lift assist and single latch release

Improved Suspension Seat / Console Assembly
Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling
Heated suspension (standard) or optional air ride suspension with heat
New joystick consoles - now adjustable in height by way of dial at bottom
Adjustable arm rests - turn dial to raise or lower for optimum comfort

Advanced 7" Color Cluster
New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature, and fuel. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.
3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference
Enhanced self-diagnostic features with GPS download capability
One pump flow or two pump flow for optional attachment is now selectable through the cluster / New anti-theft system with password capability
Boom speed and arm regeneration are selectable through the monitor.
Auto power boost is now available - selectable (on/off) through the monitor.
Powerful air conditioning and heat with auto climate control, 20% more heat and air output than 7A series!
RMS (Remote Management System) works through GPS/satellite technology to ultimately provide better customer service and support.

Undercarriage

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

Preference

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



*Photo may include optional equipment.



Wide Cabin with Excellent Visibility

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

Operator Comfort

In 9 series cabin you can easily adjust the seat, console and armrest settings to best suit your preferred comfort level. Seat and console position and height can be set together and independent from each other. Other preference settings that add to overall operator comfort include the full automatic high capacity airconditioning system and the Radio / USB player.



Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9 series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo, plus remotely located controls is perfect for listening to music favorites. Operators can even talk on the phone with the hands-free cell phone feature.



Operator - Friendly Cluster

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



Precision

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



Computer Aided Power

The engine horsepower and hydraulic horsepower together in unison through the advanced CAPO(Computer Aided Power Optimization) system, flow for the job at hand. Operator can set their own preferences for boom or swing priority, power mode selection and optional work tools at the touch of a button.

The CAPO system also provides complete self diagnostic features and digital gauges for important information like hydraulic oil temperature, water temperatures and fuel level. This system interfaces with multiple sensors placed throughout the hydraulic system as well as the electronically controlled engine to provide the optimum level of engine power and hydraulic flow.

Power Mode

P (Power Max) mode maximizes machine speed and power for mass production. S (Standard) mode provides a reduced, fixed rpm for optimum performance and improved fuel economy. For maximum fuel savings and improved control, E (Economy) mode provides precise flow and engine power based on load demand. Three unique power modes provide the operator with custom power, speed and fuel economy.

Work Mode

The work mode allows the operator to select single flow attachments like a hydraulic breaker or bi-directional flow attachments like a crusher. Flow settings unique to each attachment can be programmed from within the cluster.

User Mode

Some jobs require more precise machine settings. Using the versatile U (User) mode, the operator can customize engine speed, pump output, idle speed and other machine settings for the job at hand.

Improved Hydraulic System



To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort.

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9

series look like a smooth operator. Newly improved features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.

Auto Boom-swing Priority

This smart function automatically and continuously looks the ideal hydraulic flow balance for the boom and swing motions of the machine. The advanced CAPO system monitors the hydraulic system and adjusts its settings to maximize performance and productivity.



*Photo may include optional equipment.

Performance

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



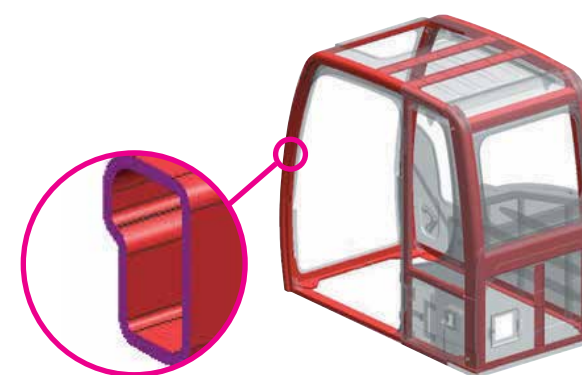
*Photo may include optional equipment.



Track Rail Guard & Adjusters

standard grease cylinder track adjusters and shock absorbing springs.

Durable track rail guards keep track links in place. Track adjustment is made easy with



Structure Strength

The 9 series cabin structure has been fitted with stronger but slimmer tubing for more safety and improved visibility. Low-stress, high strength steel is integrally welded to form a stronger, more durable upper and lower frame. Structural integrity was tested by way of FEM (Finite Elements Method) analysis and long-term durability tests.

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 work environment. Bearings have more surface area to handle higher loads with greater durability. The exhaust manifold allows for heat expansion and contraction, eliminating metal stress fractures. Reduced friction in the power cylinder means longer life and increased power output. From the structurally reinforced block to the stiffened gear housing, the QSC is built stronger to last longer.



Profitability

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



*Photo may include optional equipment.

Fuel Efficient

9 series excavators are engineered to be extremely fuel efficient. New innovations like the variable speed & remote fan, three-stage auto decel system and the new economy mode help to conserve fuel and reduce the impact on the environment.



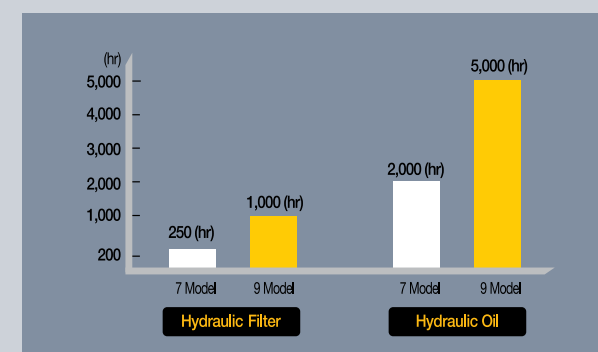
Hi-MATE (Remote Management System)

Hi-MATE, Hyundai's proprietary remote management system, provides operators and dealer service personnel access to vital service and diagnostic information on the machine from any computer with internet access. Users can pinpoint machine location using digital mapping and set machine work boundaries, reducing the need for multiple service calls. Hi-MATE saves time and money for the owner and dealer by promoting preventative maintenance and reducing machine downtime.



Easy Access

Ground-line access to filters, lube fittings, fuses, machine computer components and wide open compartments makes service more convenient on the 9 series.



Extended Life Components

9 series excavators were designed with bushings designed for extended lube intervals (250 hrs) & polymer shims (wear resistant, noise reducing), extended-life hydraulic filters (1,000hrs), long-life hydraulic oil (5,000hrs), more efficient cooling systems and integrated preheating systems which extend service intervals, minimize operating costs and reduce machine down time.

Specifications

ENGINE

MODEL			Cummins QSC
Type			Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charge air cooled, Low emission
Rated flywheel horsepower	SAE	J1995 (gross)	278HP (207kW)/ 1,750rpm
		J1349 (net)	263HP (196kW)/ 1,750rpm
	DIN	6271/1 (gross)	282PS (207kW)/ 1,750rpm
		6271/1 (net)	267PS (196kW)/ 1,750rpm
Max. torque			123.7kgf-m (895lbf-ft)/1,500rpm
Bore X stroke			114mm X 135mm (4.5" X 5.3")
Piston displacement			8,300cc (506 in ³)
Batteries			2 X 12V X 160AH
Starting motor			24V, 7.5kW
Alternator			24V, 70Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis 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 pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,690 psi)
Travel	350 kgf/cm² (4,690 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,120 psi)
Swing circuit	300 kgf/cm² (3,770 psi)
Pilot circuit	40 kgf/cm² (500 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder	Boom: 2-150 X1,480 mm (5.9" X 58.3")
bore X stroke	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 (65,040lbf)
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 on the battery box

SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.2 rpm

COOLANT & LUBRICANT CAPACITY

Re-filling	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	6	1.6	1.3
Final drive (each) - gear oil	8	2.1	1.8
Hydraulic system (including tank)	330	87.2	72.6
Hydraulic tank	190	50.2	41.8

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets, and a track chain with double or triple grouser shoes.

Center frame	X-leg type
Track frame	Pentagonal box type
No. of shoes on each side	48
No. of carrier rollers on each side	2
No. of track rollers on each side	9
No. of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

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

MAJOR COMPONENT WEIGHT	
Upperstructure	7,920kg (17,460lb)
Boom (with arm cylinder)	3,030kg (6,680lb)
Arm (with bucket cylinder)	1,770kg (3,900lb)

OPERATING WEIGHT				
Shoes		Operating weight		Ground pressure
Type	Width mm (in)	kg (lb)		kgf/cm² (psi)
Triple grouser	600 mm (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 mm (28")	R320LC-9	33,600 (74,080)	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 mm (32")	R320LC-9 H/W	36,500 (80,470)	0.53 (7.54)
		R320LC-9	34,400 (75,840)	0.44 (6.26)
		R320LC-9 H/W	37,000 (81,570)	0.61 (8.67)
	900 mm (36")	R320LC-9	34,400 (75,840)	0.44 (6.26)
		R320LC-9 H/W	37,000 (81,570)	0.61 (8.67)
	700 mm (28")	R320LC-9 H/W	37,000 (81,570)	0.61 (8.67)

AIR CONDITIONING SYSTEM

The air condition system for the machine contains the fluorinated greenhouse gas with global warming potential of R134a. (Global Warming Potential : 1430)
The system hold 0.8kg refrigerant consisting of a CO2 equivalent 1.14kg metric tonne.
For more information, Please refer to the manual.

BUCKETS

All buckets are welded with high-strength steel.

												
SAE heaped m³ (yd³)	0.90 (1.18)	1.14 (1.49)	1.44 (1.88)	1.74 (2.28) 2.10 (2.75)	1.44 (1.88) 1.73 (2.26)							
Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft-in)							
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		6,450 (21' 2") Boom				6,150 (20' 2") Boom			
					2,200 (7' 3") Arm				2,500 (8' 2") Arm	3,200 (10' 6") Arm	4,050 (13' 3") Arm	2,200 (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					● : Applicable for materials with density of 2,000 kg /m³ (3,370 lb/ yd³) or less							
○ Rock-Heavy duty bucket					■ : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less							
					▲ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less							

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 6.45m & 6.15m Booms and 2.2m, 2.5m, 3.2m, & 4.05m Arms are available.

DIGGING FORCE

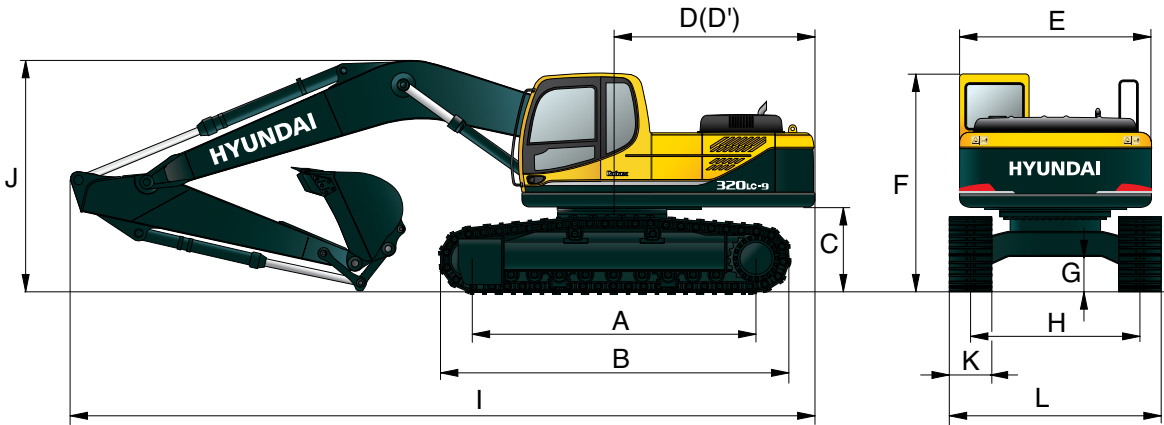
Boom	Length	mm (ft-in)	6,450 (21' 2")				Remarks
	Weight	kg (lb)	3,030 (6,680)				
Arm	Length	mm (ft-in)	2,200 (7' 3")	2,500 (8' 2")	3,200 (10' 6")	4,050 (13' 3")	
	Weight	kg (lb)	1,560 (3,440)	1,650 (3,640)	1,770 (3,900)	1,870 (4,120)	
Bucket digging force	SAE	kN	189.3 [205.5]	189.3 [205.5]	189.3 [205.5]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

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

Arm weight includes bucket cylinder, linkage, and pin

Dimensions & Working Range

R320LC-9 / R320NLC-9 DIMENSIONS



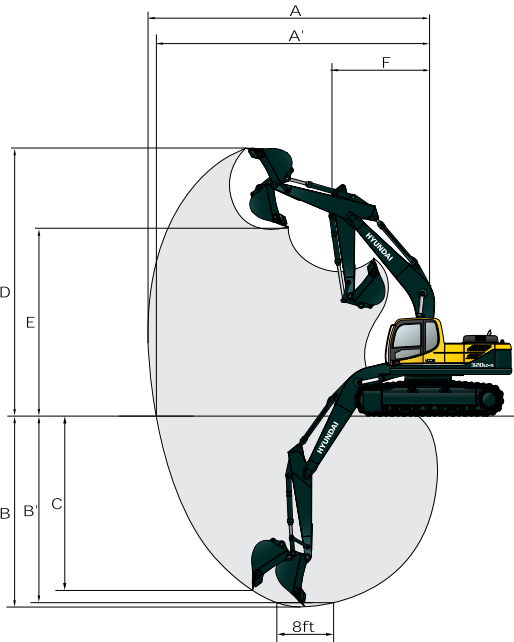
Unit : mm (ft . in)

A	Tumbler distance	R320LC-9	4,030 (13' 3")
		R320NLC-9	4,030 (13' 3")
B	Overall length of crawler		4,940 (16' 2")
C	Ground clearance of counterweight		1,200 (3' 11")
D	Tail swing radius		3,330 (10' 11")
D'	Rear-end length		3,265 (10' 9")
E	Overall width of upperstructure		2,980 (9' 9")
F	Overall height of cab		3,090 (10' 2")
G	Min. ground clearance		500 (1' 8")
H	Track gauge	R320LC-9	2,680 (8' 10")
		R320NLC-9	2,390 (7' 10")

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")
I	Overall length	11,230 (36' 10")	11,100 (36' 5")	10,980 (36' 0")	10,980 (36' 0")	10,930 (35' 10")
J	Overall height of boom	3,640 (11' 11")	3,670 (12' 0")	3,380 (11' 1")	3,860 (12' 8")	3,680 (12' 1")
K Track shoe width			600 (24")	700 (28")	800 (32")	900 (36")
L	Overall width	R320LC-9	3,280 (10' 9")	3,380 (11' 1")	3,480 (11' 5")	3,580 (11' 9")
		R320NLC-9	2,990 (9' 10")	-	-	-

R320LC-9 / R320NLC-9 WORKING RANGE

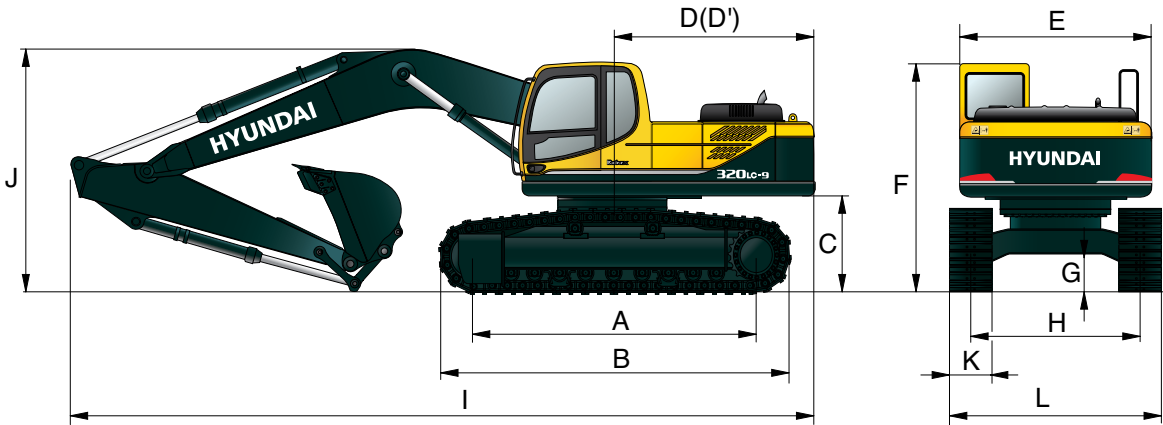
Unit : mm (ft . in)



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

Dimensions & Working Range

R320LC-9 HIGH WALKER DIMENSIONS



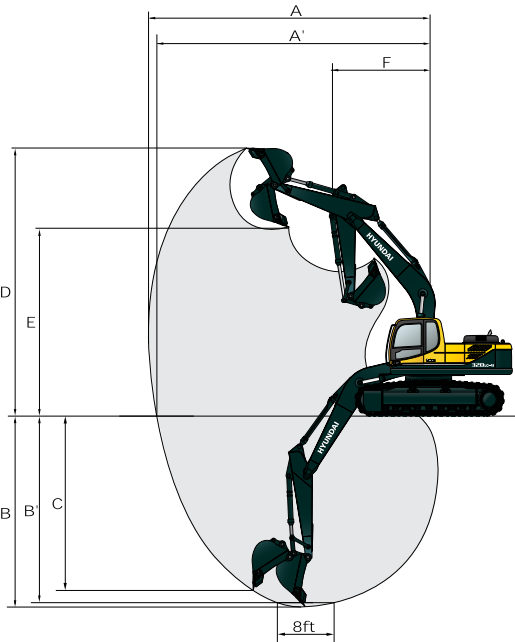
Unit : mm (ft . in)

A	Tumbler distance	4,030 (13' 3")
B	Overall length of crawler	4,940 (16' 2")
C	Ground clearance of counterweight	1,500 (4' 11")
D	Tail swing radius	3,330 (10' 11")
D'	Rear-end length	3,265 (10' 9")
E	Overall width of upperstructure	2,980 (9' 9")
F	Overall height of cab	3,390 (11' 1")
G	Min. ground clearance	765 (2' 6")
H	Track gauge	2,870 (9' 5")

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")
I	Overall length	11,220 (36' 10")	11,100 (36' 5")	10,910 (35' 10")	11,000 (36' 1")	10,920 (35' 10")
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")
K	Track shoe width	Type	Triple grouser			Double grouser
		Width	600 (24")	700 (28")	800 (32")	700 (28")
L	Overall width		3,470 (11' 5")	3,570 (11' 9")	3,670 (12' 0")	3,580 (11' 9")

R320LC-9 HIGH WALKER WORKING RANGE

Unit : mm (ft . in)



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

Lifting Capacity

R320LC-9

Boom : 6.45m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
7.5 m	kg											*6720	5040	8.34
(25 ft)	lb											*14820	11110	(27.4)
6.0 m	kg							*7320	5980			6430	4100	9.19
(20 ft)	lb							*16140	13180			14180	9040	(30.2)
4.5 m	kg			*11600	*11600	*9120	8430	*7930	5770			5740	3600	9.70
(15 ft)	lb			*25570	*25570	*20110	18580	*17480	12720			12650	7940	(31.8)
3.0 m	kg			*15130	12220	*10770	7870	8690	5490			5420	3360	9.92
(10 ft)	lb			*33360	26940	*23740	17350	19160	12100			11950	7410	(32.5)
1.5 m	kg			*17590	11360	12060	7390	8400	5240	6240	3860	5380	3310	9.88
(5 ft)	lb			*38780	25040	26590	16290	18520	11550	13760	8510	11860	7300	(32.4)
Ground	kg			*18360	11070	11730	7110	8200	5060			5630	3470	9.57
Line	lb			*40480	24410	25860	15670	18080	11160			12410	7650	(31.4)
-1.5 m	kg	*15010	*15010	*18010	11060	11630	7010	8130	4990			6280	3890	8.97
(-5 ft)	lb	*33090	*33090	*39710	24380	25640	15450	17920	11000			13850	8580	(29.4)
-3.0 m	kg	*22800	*22800	*16720	11240	11710	7090					7670	4800	7.98
(-10 ft)	lb	*50270	*50270	*36860	24780	25820	15630					16910	10580	(26.2)
-4.5 m	kg	*19110	*19110	*14080	11620	*10340	7380					*7300	7080	6.42
(-15 ft)	lb	*42130	*42130	*31040	25620	*22800	16270					*16090	15610	(21.1)

Boom : 6.45m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Reach
														m (ft)
7.5 m	kg									*5240	*5240			9.06
(25 ft)	lb									*11550	*11550			(29.7)
6.0 m	kg									*6500	6100			9.84
(20 ft)	lb									*14330	13450			(32.3)
4.5 m	kg							*8090	*8090	*7190	5850	*5440	4150	10.31
(15 ft)	lb							*17840	*17840	*15850	12900	*11990	9150	(33.8)
3.0 m	kg					*13400	12620	*9820	7990	*8110	5530	6390	3990	10.52
(10 ft)	lb					*29540	27820	*21650	17610	*17880	12190	14090	8800	(34.5)
1.5 m	kg					*16400	11540	*11460	7430	8400	5220	6210	3830	10.48
(5 ft)	lb					*36160	25440	*25260	16380	18520	11510	13690	8440	(34.4)
Ground	kg			*10240	*10240	*17910	11010	11690	7060	8140	4990	6080	3710	10.19
Line	lb			*22580	*22580	*39480	24270	25770	15560	17950	11000	13400	8180	(33.4)
-1.5 m	kg	*11380	*11380	*14470	*14470	*18150	10860	11490	6880	8010	4870			9.63
(-5 ft)	lb	*25090	*25090	*31900	*31900	*40010	23940	25330	15170	17660	10740			(31.6)
-3.0 m	kg	*15350	*15350	*19470	*19470	*17370	10940	11490	6880	8020	4800			8.74
(-10 ft)	lb	*33840	*33840	*42920	*42920	*38290	24120	25330	15170	17680	10760			(28.7)
-4.5 m	kg			*21820	*21820	*15410	11220	*11430	7060					7.37
(-15 ft)	lb			*48100	*48100	*33970	24740	*25200	15560					(24.2)
-6.0 m	kg					*11340	*11340							
(-20 ft)	lb					*25000	*25000							

Boom : 6.45m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Reach
														m (ft)
7.5 m	kg													10.00
(25 ft)	lb													(32.8)
6.0 m	kg											*4530	4380	10.71
(20 ft)	lb											*9990	9660	(35.1)
4.5 m	kg									*6270	6000	*5750	4250	11.13
(15 ft)	lb									*13820	13230	*12680	9370	(36.5)
3.0 m	kg			*18220	*18220	*11250	*11250	*8610	8250	*7280	5660	6460	4060	11.32
(10 ft)	lb			*40170	*40170	*24800	*24800	*18980	18190	*16050	12480	14240	8950	(37.1)
1.5 m	kg			*10440	*10440	*14750	12000	*10470	7630	*8360	5310	6240	3860	11.29
(5 ft)	lb			*23020	*23020	*32520	26460	*23080	16820	*18430	11710	13760	8510	(37.0)
Ground	kg			*10810	*10810	*17060	11210	11810	7150	8180	5020	6060	3690	11.03
Line	lb			*23830	*23830	*37610	24710	26040	15760	18030	11070	13360	8140	(36.2)
-1.5 m	kg	*9850	*9850	*13390	*13390	*18030	10860	11490	6880	7980	4830	5950	3580	10.52
(-5 ft)	lb	*21720	*21720	*29520	*29520	*39750	23940	25330	15170	17590	10650	13120	7890	(34.5)
-3.0 m	kg	*13020	*13020	*16980	*16980	*17900	10800	11380	6780	7900	4770	5930	3570	9.72
(-10 ft)	lb	*28700	*28700	*37430	*37430	*39460	23810	25090	14950	17420	10520	13070	7870	(31.9)
-4.5 m	kg	*16670	*16670	*21800	*21800	*16680	10950	11460	6850	7980	4840			8.53
(-15 ft)	lb	*36750	*36750	*48060	*48060	*36770	24140	25260	15100	17590	10670			(28.0)
-6.0 m	kg			*20030	*20030	*13950	11330	*10120	7130					6.71
(-20 ft)	lb			*44160	*44160	*30750	24980	*22310	15720					(22.0)

Lifting Capacity

R320LC-9

Boom : 6.45m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 800mm (32") triple grouser

Load point height m (ft)		Load radius										At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
														m (ft)
7.5 m	kg													
(25 ft)	lb													
6.0 m	kg							*7320	6150			*14820	11440	(27.4)
(20 ft)	lb							*16140	13560			6630	4230	9.19
4.5 m	kg											14620	9330	(30.2)
(15 ft)	lb											5930	3720	9.70
3.0 m	kg			*11600	*11600	*9120	8660	*7930	5940			5930	3720	9.70
(10 ft)	lb			*25570	*25570	*20110	19090	*17480	13100			13070	8200	(31.8)
1.5 m	kg			*15130	12550	*10770	8090	*8770	5660			5600	3480	9.92
(5 ft)	lb			*33360	27670	*23740	17840	*19330	12480			12350	7670	(32.5)
Ground	kg			*17590	11700	*12210	7610	8660	5400	6440	4000	5570	3440	9.88
Line	lb			*38780	25790	*26920	16780	19090	11900	14200	8820	12280	7580	(32.4)
	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	kg	*15010	*15010	*18010	11400	11990	7240	8400	5160			6490	4030	8.97
(-5 ft)	lb	*33090	*33090	*39710	25130	26430	15960	18520	11380			14310	8880	(29.4)
-3.0 m	kg	*22800	*22800	*16720	11570	12070	7310					7910	4960	7.98
(-10 ft)	lb	*50270	*50270	*36860	25510	26610	16120					17440	1930	(26.2)
-4.5 m	kg	*19110	*19110	*14080	11950	*10340	7600					*7300	7290	6.42
(-15 ft)	lb	*42130	*42130	*31040	26350	*22800	16760					*16090	16070	(21.1)

Lifting Capacity

R320NLC-9  Rating over-front  Rating over-side or 360 degree

Boom : 6.45m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser													
Load point height m (ft)		Load radius										At max. reach	
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity	
													
7.5 m	kg											*6720	4240
(25 ft)	lb											*14820	9350
6.0 m	kg							*7320	5050			6390	3410
(20 ft)	lb							*16140	11130			14090	7520
4.5 m	kg			*11600	11300	*9120	7100	*7930	4840			5700	2960
(15 ft)	lb			*25570	24910	*20110	15650	*17480	10670			12570	6530
3.0 m	kg			*15130	10060	*10770	6560	8630	4570			5380	2740
(10 ft)	lb			*33360	22180	*23740	14460	19030	10080			11860	6040
1.5 m	kg			*17590	9250	11980	6100	8350	4320	6190	3160	5340	2690
(5 ft)	lb			*38780	20390	26410	13450	18410	9520	13650	6970	11770	5930
Ground	kg			*18360	8980	11660	5830	8150	4150			5590	2820
Line	lb			*40480	19800	25710	12850	17970	9150			12320	6220
-1.5 m	kg	*15010	*15010	*18010	8970	11550	5740	8080	4080			6230	3180
(-5 ft)	lb	*33090	*33090	*39710	19780	25460	12650	17810	8990			13730	7010
-3.0 m	kg	*22800	18590	*16720	9130	11640	5810					7620	3960
(-10 ft)	lb	*50270	40980	*36860	20130	25660	12810					16800	8730
-4.5 m	kg	*19110	*19110	*14080	9490	*10340	6090					*7300	5910
(-15 ft)	lb	*42130	*42130	*31040	20920	*22800	13430					*16090	13030

Boom : 6.45m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)	
													
7.5 m	kg									*5240	*5240		*5970
(25 ft)	lb									*11550	*11550		*13160
6.0 m	kg									*6500	5160		5690
(20 ft)	lb									*14330	11380		12540
4.5 m	kg							*8090	7260	*7190	4910	*5440	5120
(15 ft)	lb							*17840	16010	*15850	10820	*11990	7580
3.0 m	kg					*13400	10430	*9820	6670	*8110	4600	6340	4850
(10 ft)	lb					*29540	22990	*21650	14700	*17880	10140	13980	7230
1.5 m	kg					*16400	9410	*11460	6140	8340	4310	6170	4800
(5 ft)	lb					*36160	20750	*25260	13540	18390	9500	13600	6880
Ground	kg			*10240	*10240	*17910	8920	11620	5780	8090	4080	6030	4980
Line	lb			*22580	*22580	*39480	19670	25620	12740	17840	8990	13290	10980
-1.5 m	kg	*11380	*11380	*14470	*14470	*18150	8780	11410	5610	7950	3960		5460
(-5 ft)	lb	*25090	*25090	*31900	*31900	*40010	19360	25150	12370	17530	8730		12040
-3.0 m	kg	*15350	*15350	*19470	17990	*17370	8850	11410	5610	7960	3970		6450
(-10 ft)	lb	*33840	*33840	*42920	39660	*38290	19510	25150	12370	17550	8750		14220
-4.5 m	kg			*21820	18520	*15410	9110	*11430	5780				*7480
(-15 ft)	lb			*48100	40830	*33970	20080	*25200	12740				*16490
-6.0 m	kg					*11340	9660						
(-20 ft)	lb					*25000	21300						

Boom : 6.45m (21' 2") / Arm : 4.05 m (13' 3") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach	
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)	
													
7.5 m	kg												*5250
(25 ft)	lb												*11570
6.0 m	kg											*4530	3660
(20 ft)	lb											*9990	8070
4.5 m	kg									*6270	5060	*5750	3530
(15 ft)	lb									*13820	11160	*12680	7780
3.0 m	kg			*18220	*18220	*11250	11040	*8610	6930	*7280	4720	6410	3340
(10 ft)	lb			*40170	*40170	*24800	24340	*18980	15280	*16050	10410	14130	7360
1.5 m	kg			*10440	*10440	*14750	9840	*10470	6320	*8360	4390	6200	3150
(5 ft)	lb			*23020	*23020	*32520	21690	*23080	13930	*18430	9680	13670	6940
Ground	kg			*10810	*10810	*17060	9090	11730	5870	8130	4110	6020	2980
Line	lb			*23830	*23830	*37610	20040	25860	12940	17920	9060	13270	6570
-1.5 m	kg	*9850	*9850	*13390	*13390	*18030	8760	11420	5600	7920	3930	5900	4670
(-5 ft)	lb	*21720	*21720	*29520	*29520	*39750	19310	25180	12350	17460	8660	13010	6350
-3.0 m	kg	*13020	*13020	*16980	*16980	*17900	8710	11310	5510	7840	3860	5890	2870
(-10 ft)	lb	*28700	*28700	*37430	*37430	*39460	19200	24930	12150	17280	8510	12990	6330
-4.5 m	kg	*16670	*16670	*21800	18000	*16680	8850	11390	5580	7920	3930		6710
(-15 ft)	lb	*36750	*36750	*48060	39680	*36770	19510	25110	12300	17460	8660		14790
-6.0 m	kg			*20030	18700	*13950	9210	*10120	5850				*6790
(-20 ft)	lb			*44160	41230	*30750	20300	*22310	12900				*14970

Lifting Capacity

R320LC-9 HIGH WALKER  Rating over-front  Rating over-side or 360 degree

Room : 6.45m (21' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser															
Load point height m (ft)		Load radius										At max. reach			
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach	
														m (ft)	
7.5 m	kg												*6730	5630	8.53
(25 ft)	lb												*14840	12410	(28.0)
6.0 m	kg							*7410	6920				*6840	4700	9.31
(20 ft)	lb							*16340	15260				*15080	10360	(30.5)
4.5 m	kg			*12260	*12260	*9420	*9420	*8070	6690				6250	4210	9.76
(15 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 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 ft)	lb			*39350	29520	*27400	19070	20260	13560				13210	8800	(32.3)
Ground	kg			*18370	13170	12850	8400	9020	5990				6330	4220	9.48
Line	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 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 ft)	lb	*49780	*49780	*36070	29560	*27010	18610						*17390	13210	(25.4)
-4.5 m	kg	*18050	*18050	*13340	*13340										
(-15 ft)	lb	*39790	*39790	*29410	*29410										

Boom : 6.45m (21' 2") / Arm : 3.2 m (10' 6") / Bucket : 1.44 m³ (1.20 yd³) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius												At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
																m (ft.)
7.5 m	kg									*5730	*5730			*5990	4920	9.24
(25 ft)	lb									*12630	*12630			*13210	10850	(30.3)
6.0 m	kg									*6600	*6600			*6130	4180	9.95
(20 ft)	lb									*14550	*14550			*13510	9220	(32.6)
4.5 m	kg							*8400	*8400	*7350	6760	*5820	4880	5660	3770	10.37
(15 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 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 ft)	lb					*37040	29830	*25840	19140	*20300	13510	15120	10030	11950	7850	(34.3)
Ground	kg			*10990	*10990	*18040	13080	*12750	8330	8980	5920	6740	4440	5670	3720	10.11
Line	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 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 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 ft)	lb			*46160	*46160	*32780	29610	*24210	18630					*16290	15410	(23.1)