

## STANDARD EQUIPMENT

### ISO Standard cabin

All-weather steel cab with 360° visibility  
 Safety glass windows  
 Rise-up type windshield wiper  
 Sliding fold-in front window  
 Sliding side window(LH)  
 Lockable door  
 Hot & cool box  
 Storage compartment & Ashtray  
 Transparent cabin roof-cover  
 Radio & USB player  
 Handsfree mobile phone system with USB  
 12 volt power outlet (24V DC to 12V DC converter)  
 Sun visor

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

3-power mode, 2-work mode, User mode  
 Auto deceleration & one-touch deceleration system  
 Auto warm-up system  
 Auto overheat prevention system

### Automatic climate control

Air conditioner & heater  
 Defroster

### Self-diagnostics system

Starting Aid (air grid heater) for cold weather

### Centralized monitoring

LCD display  
 Engine speed or Trip meter/Accel.  
 Clock  
 Gauges  
 Fuel level gauge  
 Engine coolant temperature gauge  
 Hyd. oil temperature gauge  
 Warnings  
 Check engine  
 Overload  
 Communication error  
 Low battery  
 Air cleaner clogging  
 Indicators  
 Max power  
 Low speed/High speed  
 Fuel warmer  
 Auto idle

### Door and cab locks, one key

### Three outside rearview mirrors

### Mechanical suspension seat with heater

### Pilot-operated slidable joystick

### Console box height adjust system

### Four front working lights, one rear light

### Electric horn

### Batteries (2 x 12V x 200 AH)

### Battery master switch

### Removable clean-out dust net for cooler

### Automatic swing brake

### Automatic fuel line deaeration

### Fuel pre-filter with fuel warmer

### Boom holding system

### Arm holding system

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

### Track rail guard

### Accumulator for lowering work equipment

### Electric transducer

### Lower frame under cover (Normal)

### Viscous fan clutch

### Travel alarm

## 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

### Booms

Heavy duty boom (7.06m, 23'2")

Short boom (6.55m, 21'6")

Long boom (9.0m, 29'6")

Long reach boom (10m, 32'10")

### Arms

Heavy duty arm (3.38m, 11'1")

Super short arm (2.4m, 7'10")

Short arm (2.9m, 9'6")

Long arm (4.0m, 13'1")

Long arm (5.85m, 19'2")

Long reach arm (6.85m, 22'6")

### Counterweight

10,200kg (22,490 lb)

10,700kg (23,590 lb)

11,700kg (25,790 lb)

### Climate control

Air conditioner only

Heater only

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

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

### Cabin guard - Front

Wire net

Fine net

### Cabin roof-steel cover

### Cabin lights

### Cabin front window rain guard

### Track shoes

Triple grousers shoe (700mm, 28")

Triple grousers shoe (750mm, 30")

Triple grousers shoe (800mm, 32")

Double grousers shoe (600mm, 24")

Double grousers shoe (700mm, 28")

Heavy duty track shoe (600mm, 24")

Heavy duty track shoe (700mm, 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)

### Oil washed air cleaner

### Oil bath precleaner

### Hi-mate (Remote Management System)

### Automatic lubrication

\* 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



**HYUNDAI**  
 HEAVY INDUSTRIES CO.,LTD.  
**CONSTRUCTION EQUIPMENT**

Head Office  
 1000 BANGEUJINSUNHWAN-DORO, DONG-GU, ULSAN, 682-792, KOREA  
 TEL:(82)52-202-7722, 9807 FAX:(82)52-202-7720



We build a better future

**Robex**  
**520LC-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!

## Robex 520LC-9

### Machine Walk-Around

#### Engine Technology

Proven / reliable, fuel efficient Cummins Tier III QSM11 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 seat(standard) or optional air ride suspension seat with heater  
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 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

\*Photo may include optional equipment.

# 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.

## 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.



## 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.

# 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

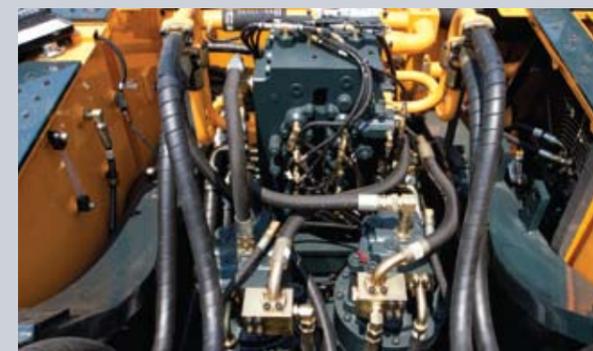


To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

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.



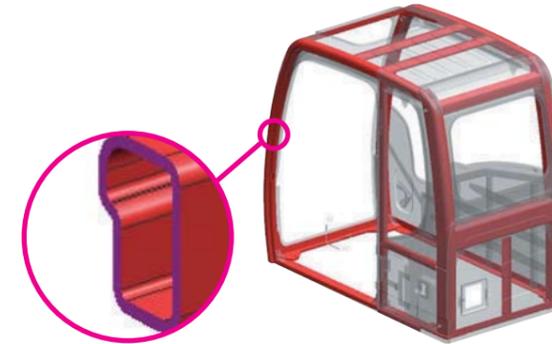
\*Photo may include optional equipment.



## 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.

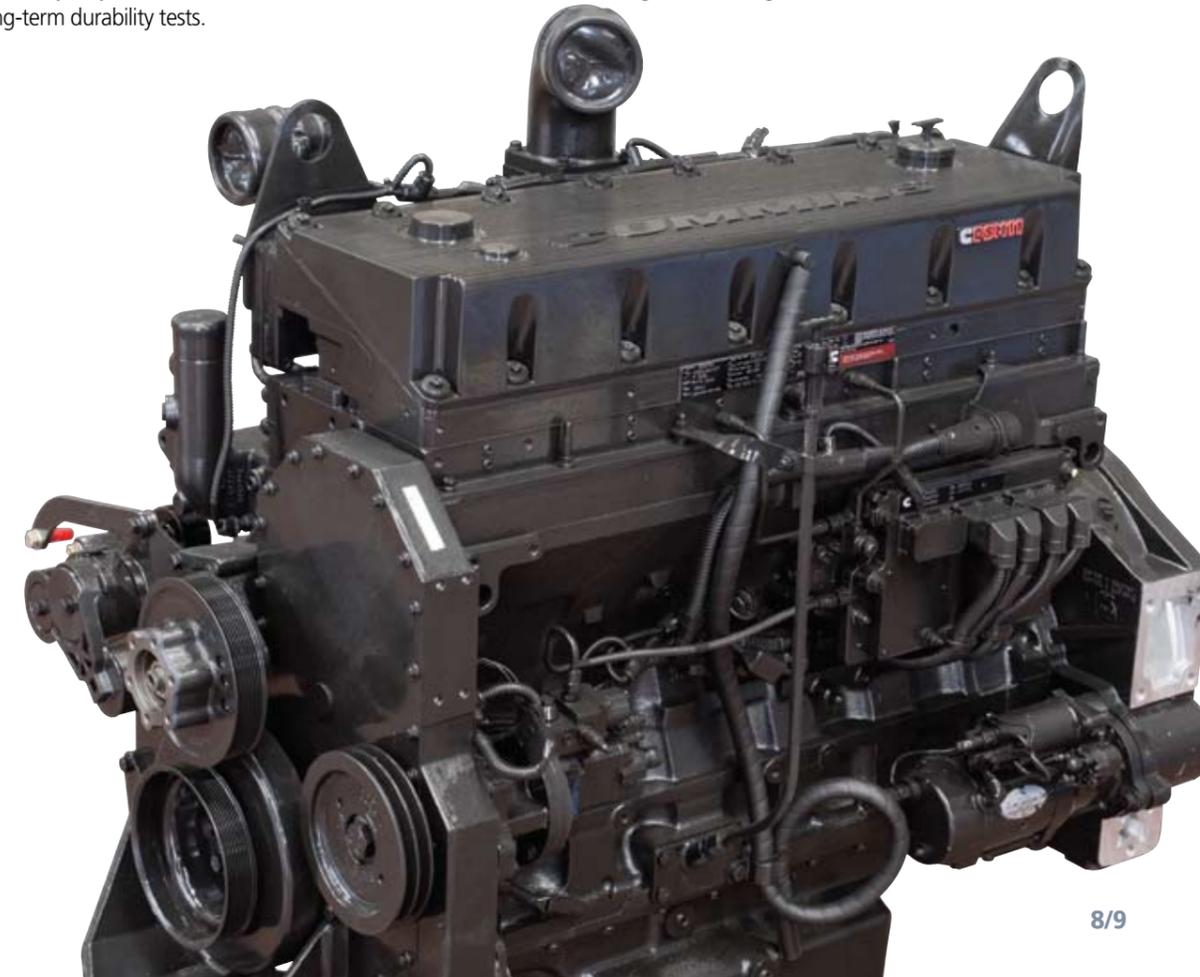
## CUMMINS QSM11 Engine

The Tier III compliant, six cylinder, turbo-charged, 4 cycle, water cooled, Cummins QSM11 diesel engine is built for power, reliability, efficiency and reduced emissions.

## Heavy-duty strength

The QSM11 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 QSM11 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 QSM11 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.



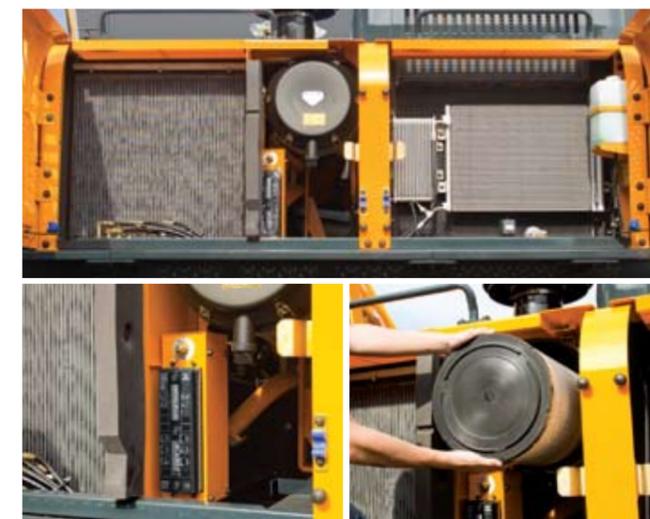
## Hi-mate (Remote Management System)

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.



## Fuel Efficiency

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



## 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.



## Long-Life Components

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

# Specifications

## ENGINE

MODEL	CUMMINS QSM11		
Type	Water-cooled, 4-cycle Diesel, 6-Cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horsepower	SAE	J1995 (gross)	357HP (266kW) / 1,900rpm
		J1349 (net)	342HP (255kW) / 1,900rpm
Rated horsepower	DIN	6271/1 (gross)	362PS (266kW) / 1,900rpm
		6271/1 (net)	347PS (255kW) / 1,900rpm
Max. torque	170.8kgf-m (1,235lbf-ft) / 1,400rpm		
Bore X stroke	125mm X 147mm (4.92" X 5.79")		
Piston displacement	10,800cc (659 in <sup>3</sup> )		
Batteries	2 X 12V X 200AH		
Starting motor	24V, 7.2kW		
Alternator	24V, 70Amp		

## HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement tandem-axis piston pumps
Max. flow	2 X 370 L/min (97.7 US gpm / 81.4 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTING	
Implement circuits	330 kgf/cm <sup>2</sup> (4,690 psi)
Travel	330 kgf/cm <sup>2</sup> (4,690 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	285 kgf/cm <sup>2</sup> (4,050 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder	Boom: 2-170 X 1,570 mm (6.7" X 61.8")
bore X stroke	Arm: 1-190 X 1,820 mm (7.5" X 71.7") Bucket: 1-170 X 1,370 mm (6.7" X 53.9")

## DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	38,500 kgf (82,000 lbf)
Max. travel speed (high / low)	5.0 km/hr (3.3 mph) / 3.2 km/hr (2.0 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

## CONTROL

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

Pilot control	Two joysticks with one safety lever (LH): Swing and arm, (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

## SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.0 rpm

## COOLANT & LUBRICANT CAPACITY

Re-filling	liter	US gal	UK gal
Fuel tank	621.0	164.0	136.6
Engine coolant	45.0	11.9	9.9
Engine oil	37.9	10.0	8.3
Swing device - gear oil	5.0	1.3	1.1
Final drive (each) - gear oil	5.0	1.3	1.1
Hydraulic system (including tank)	380.0	100.4	83.6
Hydraulic tank	262.0	69.2	57.6

## 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	53
No. of carrier rollers on each side	3
No. of track rollers on each side	9
No. of rail guards on each side	2

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 7,060mm (23' 2") boom, 3,380mm (11' 1") arm, SAE heaped 2.15m<sup>3</sup> (2.81 yd<sup>3</sup>) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	11,210kg (24,710lb)
Boom (with arm cylinder)	4,140kg (9,130lb)

OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm <sup>2</sup> (psi)
Triple grouser	600 mm (24")	51,000 (112,440)	0.88 (12.51)
	700 mm (28")	51,540 (113,630)	0.76 (10.81)
	750 mm (30")	51,810 (114,220)	0.72 (10.24)
Double grouser	800 mm (32")	52,080 (114,820)	0.67 (9.53)
	600 mm (24")	51,000 (112,440)	0.88 (12.51)
	700 mm (28")	51,540 (113,630)	0.76 (10.81)

## BUCKETS

All buckets are welded with high-strength steel.



SAE heaped m <sup>3</sup> (yd <sup>3</sup> )	1.00 (1.31) 1.38 (1.80)	1.65 (2.16) 2.15 (2.81) 2.79 (3.65)	3.03 (3.96)	● 1.80 (2.35) ● 2.70 (3.53) ● 3.20 (4.19)	◆ 2.20 (2.88)
--	----------------------------	---	-------------	---	---------------

Capacity m <sup>3</sup> (yd <sup>3</sup> )		Width mm (in)		Weight kg (lb)	Recommendation mm (ft-in)						
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		7,060(23' 2")Boom				6,550(21' 6")Boom	9,000(29' 6")Boom	10,000(32' 10")Boom
					2,400(7' 10")Arm	2,900(9' 6")Arm	3,380(11' 1")Arm	4,000(13' 1")Arm	2,400(7' 10")Arm	5,850(19' 2")Arm	6,850(22' 6")Arm
1.00 (1.31)	0.9 (1.18)	915 (36.0)	1,065 (41.9)	1,220 (2,690)	-	-	-	-	-	●	■
1.38 (1.80)	1.25 (1.63)	1,100 (43.3)	1,250 (49.2)	1,420 (3,130)	-	-	-	-	-	■	▲
1.65 (2.16)	1.48 (1.94)	1,140 (44.9)	1,290 (50.8)	1,520 (3,350)	●	●	●	■	●	-	-
2.15 (2.81)	1.92 (2.51)	1,415 (55.7)	1,565 (61.6)	1,740 (3,840)	●	●	■	▲	●	-	-
2.79 (3.65)	2.47 (3.23)	1,760 (69.3)	1,910 (75.2)	1,960 (4,320)	■	■	▲	-	●	-	-
3.03 (3.96)	2.67 (3.49)	1,890 (74.4)	2,040 (80.3)	2,090 (4,610)	▲	▲	-	-	■	-	-
◆ 2.20 (2.88)	1.80 (2.35)	1,840 (72.4)	-	2,170 (4,780)	●	●	■	-	●	-	-
● 1.80 (2.35)	1.50 (1.96)	1,560 (61.4)	-	2,110 (4,650)	●	●	■	-	●	-	-
● 2.70 (3.53)	2.5 (3.27)	1,790 (70.5)	-	2,715 (5,990)	▲	-	-	-	■	-	-
● 3.20 (4.19)	2.80 (3.66)	2,095 (82.5)	-	2,900 (6,390)	-	-	-	-	■	-	-

◆ Heavy duty bucket

● Rock-Heavy duty 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 with a low-stress, full-box section design. 6,550mm(21' 6"), 7,060mm(23' 2"), 9,000mm(29' 6"), 10,000mm(32' 10")booms and 2,400mm(7' 10"), 2,900mm(9' 6"), 3,380mm(11' 1"), 4,000mm(13' 1"), 5,850mm(19' 2"), 6,850mm(22' 6")arms are available.

## DIGGING FORCE

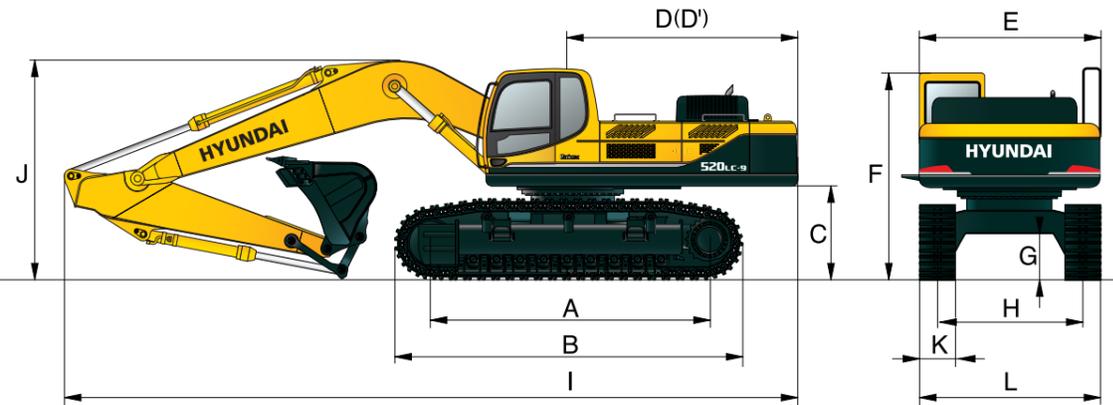
Boom	Length	mm (ft-in)	7,060(23' 2")				Remarks			
			Weight	kg (lb)						
Arm	Length	mm (ft-in)	2,400 (7' 10")		2,900 (9' 6")		3,380 (11' 1")		4,000 (13' 1")	
			Weight	kg (lb)	2,370 (5,220)	2,540 (5,600)	2,380 (5,250)	2,670 (5,890)		
Bucket digging force	SAE	kN	247.1 [269.6]	251.1 [273.9]	253.0 [276.0]	253.0 [276.0]				
		kgf	25,200 [27,490]	25,600 [27,930]	25,800 [28,150]	25,800 [28,150]				
		lbf	55,560 [60,610]	56,440 [61,570]	56,880 [62,050]	56,880 [62,050]				
	ISO	kN	286.4 [312.4]	290.3 [316.7]	292.2 [318.8]	292.2 [318.8]				
		kgf	29,200 [31850]	29,600 [32,290]	29,800 [32,510]	29,800 [32,510]				
		lbf	64,370 [70220]	65,260 [71,190]	65,700 [71,670]	65,700 [71,670]				
Arm crowd force	SAE	kN	278.5 [303.8]	225.6 [246.1]	192.2 [209.7]	171.6 [187.2]				
		kgf	28,400 [30,980]	23,000 [25,090]	19,600 [21,380]	17,500 [19,090]				
		lbf	62,610 [68,300]	50,710 [55,320]	43,210 [47,140]	38,580 [42,090]				
	ISO	kN	291.3 [317.7]	235.4 [256.8]	200.1 [218.2]	177.5 [193.6]				
		kgf	29,700 [32,400]	24,000 [26,180]	20,400 [22,250]	18,100 [19,750]				
		lbf	65,480 [71,430]	52,910 [57,720]	44,970 [49,060]	39,900 [43,530]				

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

Arm weight includes bucket cylinder, linkage, and pin

# Dimensions & Working Range

## R520LC-9 DIMENSIONS

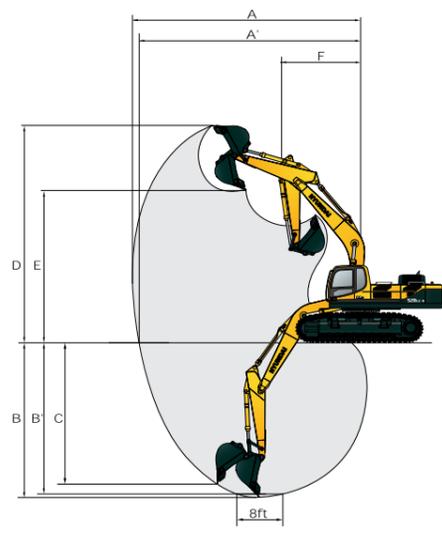


mm (ft-in)

<b>A</b> Tumbler distance	4,470 (14' 8")	<b>Boom length</b>	7,060 (23' 2")				6,550 (21' 6")	9,000 (29' 6")	10,000 (32' 10")
<b>B</b> Overall length of crawler	5,460 (17' 11")	<b>Arm length</b>	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")	6,850 (22' 6")
<b>C</b> Ground clearance of counterweight	1,500 (4' 11")	<b>I</b> Overall length	12,280 (40' 3")	12,180 (40' 0")	12,060 (39' 7")	12,050 (39' 6")	11,780 (38' 8")	13,800 (45' 3")	14,470 (47' 6")
<b>D</b> Tail swing radius	3,750 (12' 4")	<b>J</b> Overall height of boom	3,970 (13' 0")	3,880 (12' 9")	3,850 (12' 8")	4,100 (13' 5")	4,100 (13' 5")	5,190 (17' 0")	5,860 (19' 3")
<b>D'</b> Rear-end length	3,695 (12' 1")	<b>K</b> Track shoe width	600 (24")	700 (28")	750 (30")	800 (32")			
<b>E</b> Overall width of upperstructure	2,980 (9' 9")	<b>L</b> Overall width	Extended		3,540 (11' 7")	3,640 (11' 11")	3,690 (12' 1")	3,740 (12' 3")	
<b>F</b> Overall height of cab	3,400 (11' 2")		Retracted		2,990 (9' 10")	3,080 (10' 1")	3,130 (10' 3")	3,180 (10' 5")	
<b>G</b> Min. ground clearance	770 (2' 6")								
<b>H</b> Track gauge (Extended/Retracted)	2,940 (9' 8") / 2,380 (7' 10")								

mm (ft-in)

## R520LC-9 WORKING RANGE



<b>Boom length</b>	7,060 (23' 2")				6,550 (21' 6")	9,000 (29' 6")	10,000 (32' 10")
<b>Arm length</b>	2,400 (7' 10")	2,900 (9' 6")	3,380 (11' 1")	4,000 (13' 1")	2,400 (7' 10")	5,850 (19' 2")	6,850 (22' 6")
<b>Max. digging reach</b>	11,140 (36' 7")	11,530 (37' 10")	12,080 (39' 8")	12,640 (41' 6")	10,590 (34' 9")	16,280 (53' 5")	18,170 (59' 7")
<b>Max. digging reach on ground</b>	10,890 (35' 9")	11,290 (37' 0")	11,840 (38' 10")	12,420 (40' 9")	10,320 (33' 10")	16,100 (52' 10")	18,010 (59' 1")
<b>Max. digging depth</b>	6,610 (21' 8")	7,110 (23' 4")	7,590 (24' 11")	8,210 (26' 11")	6,130 (20' 1")	11,380 (37' 4")	13,010 (42' 8")
<b>Max. digging depth (8' level)</b>	6,430 (21' 1")	6,940 (22' 9")	7,440 (24' 5")	8,080 (26' 6")	5,950 (19' 6")	11,280 (37' 0")	12,930 (42' 5")
<b>Max. vertical wall digging depth</b>	4,880 (16' 0")	4,780 (15' 8")	5,470 (17' 11")	5,980 (19' 7")	4,390 (14' 5")	10,070 (33' 0")	11,640 (38' 2")
<b>Max. digging height</b>	10,640 (34' 11")	10,610 (34' 10")	11,080 (36' 4")	11,290 (37' 0")	10,260 (33' 8")	13,930 (45' 8")	15,150 (49' 8")
<b>Max. dumping height</b>	7,290 (23' 11")	7,350 (24' 1")	7,760 (25' 6")	7,980 (26' 2")	6,920 (22' 8")	10,530 (34' 7")	11,760 (38' 7")
<b>Min. swing radius</b>	5,110 (16' 9")	4,910 (16' 1")	4,830 (15' 10")	4,910 (16' 1")	4,650 (15' 3")	5,940 (19' 6")	6,510 (21' 4")

# Lifting Capacity

## R520LC-9

Rating over-front Rating over-side or 360 degree

Boom : 6.55m (21' 6") / Arm : 2.40 m (7' 10") / Bucket : 2.15 m<sup>3</sup> (2.81 yd<sup>3</sup>) 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)		Capacity	Reach	
7.5 m (25 ft)	kg									*9680	9450	8.27
	lb									*21340	20830	(27.1)
6.0 m (20 ft)	kg					*12520	*12520	*10940	10930	*9510	7850	9.07
	lb					*27600	*27600	*24120	24100	*20970	17310	(29.8)
4.5 m (15 ft)	kg			*18820	*18820	*14060	*14060	*11610	10610	*9480	7010	9.53
	lb			*41490	*41490	*31000	*31000	*25600	23390	*20900	15450	(31.3)
3.0 m (10 ft)	kg					*15650	14440	*12390	10200	*9510	6620	9.71
	lb					*34500	31830	*27320	22490	*20970	14590	(31.9)
1.5 m (5 ft)	kg					*16660	13790	*12920	9840	*9540	6600	9.62
	lb					*36730	30400	*28480	21690	*21030	14550	(31.6)
Ground	kg			*22490	21060	*16730	13430	*12920	9610	*9500	6960	9.26
Line	lb			*49580	46430	*36880	29610	*28480	21190	*20940	15340	(30.4)
-1.5 m (-5 ft)	kg	*25000	*25000	*20550	*20550	*15740	13350	*12050	9550	*9220	7870	8.59
	lb	*55120	*55120	*45300	*45300	*34700	29430	*26570	21050	*20330	17350	(28.2)
-3.0 m (-10 ft)	kg	*20980	*20980	*17260	*17260	*13380	*13380			*8260	*8260	7.49
	lb	*46250	*46250	*38050	*38050	*29500	*29500			*18210	*18210	(24.6)
-4.5 m (-15 ft)	kg			*11720	*11720							
	lb			*25840	*25840							

Boom : 7.06m (23' 2") / Arm : 2.40 m (7' 10") / Bucket : 2.15 m<sup>3</sup> (2.81 yd<sup>3</sup>) 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)				
7.5 m (25 ft)	kg							*9860	*9860			*8740	8150	8.92
	lb							*21740	*21740			*19270	17970	(29.3)
6.0 m (20 ft)	kg					*12070	*12070	*10320	*10320			*8630	6890	9.66
	lb					*26610	*26610	*22750	*22750			*19030	15190	(31.7)
4.5 m (15 ft)	kg					*13750	*13750	*11130	10410	*9620	7600	*8620	6210	10.10
	lb					*30310	*30310	*24540	22950	*21210	16760	*19000	13690	(33.1)
3.0 m (10 ft)	kg					*15370	13980	*11980	9950	*9980	7390	*8670	5890	10.26
	lb					*33890	30820	*26410	21940	*22000	16290	*19110	12990	(33.7)
1.5 m (5 ft)	kg					*16320	13350	*12570	9570	*10220	7200	*8720	5870	10.18
	lb					*35980	29430	*27710	21100	*22530	15870	*19220	12940	(33.4)
Ground	kg					*16370	13040	*12680	9340			*8720	6160	9.84
Line	lb					*36090	28750	*27950	20590			*19220	13580	(32.3)
-1.5 m (-5 ft)	kg			*19880	*19880	*15530	13000	*12110	9280			*8550	6880	9.22
	lb			*43830	*43830	*34240	28660	*26700	20460			*18850	15170	(30.2)
-3.0 m (-10 ft)	kg	*20120	*20120	*17240	*17240	*13690	13170	*10450	9420			*7940	*7940	8.22
	lb	*44360	*44360	*38010	*38010	*30180	29030	*23040	20770			*17500	*17500	(27.0)
-4.5 m (-15 ft)	kg			*12990	*12990	*10140	*10140							
	lb			*28640	*28640	*22350	*22350							

- 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 Capacity

## R520LC-9

Rating over-front Rating over-side or 360 degree

Boom : 7.06m (23' 2") / Arm : 2.90 m (9' 6") / Bucket : 2.15 m<sup>3</sup> (2.81 yd<sup>3</sup>) 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 (25 ft)	kg							*9130	*9130			*8030	7490	9.38
	lb							*20130	*20130			*17700	16510	(30.8)
6.0 m (20 ft)	kg							*9680	*9680			*7980	6390	10.08
	lb							*21340	*21340			*17590	14090	(33.1)
4.5 m (15 ft)	kg			*17520	*17520	*12920	*12920	*10560	10490	*9150	7650	*8020	5780	10.50
	lb			*38620	*38620	*28480	*28480	*23280	23130	*20170	16870	*17680	12740	(34.4)
3.0 m (10 ft)	kg			*21080	*21080	*14680	14130	*11500	9990	*9620	7390	*8110	5480	10.66
	lb			*46470	*46470	*32360	31150	*25350	22020	*21210	16290	*17880	12080	(35.0)
1.5 m (5 ft)	kg			*22550	20650	*15900	13380	*12240	9560	*9990	7150	*8210	5440	10.58
	lb			*49710	45530	*35050	29500	*26980	21080	*22020	15760	*18100	11990	(34.7)
Ground	kg			*22180	20340	*16280	12970	*12550	9260	*10050	6980	*8290	5670	10.26
	lb			*48900	44840	*35890	28590	*27670	20410	*22160	15390	*18280	12500	(33.7)
-1.5 m (-5 ft)	kg	*21080	*21080	*20820	20390	*15780	12830	*12240	9140			*8260	6270	9.66
	lb	*46470	*46470	*45900	44950	*34790	28290	*26980	20150			*18210	13820	(31.7)
-3.0 m (-10 ft)	kg	*23440	*23440	*18490	*18490	*14330	12930	*11060	9200			*7950	7480	8.72
	lb	*51680	*51680	*40760	*40760	*31590	28510	*24380	20280			*17530	16490	(28.6)
-4.5 m (-15 ft)	kg	*18200	*18200	*14780	*14780	*11520	*11520					*6800	*6800	7.30
	lb	*40120	*40120	*32580	*32580	*25400	*25400					*14990	*14990	(24.0)

Boom : 7.06m (23' 2") / Arm : 3.38 m (11' 1") / Bucket : 2.15 m<sup>3</sup> (2.81 yd<sup>3</sup>) 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 (25 ft)	kg											*7510	6700	10.00
	lb											*16560	14770	(32.8)
6.0 m (20 ft)	kg							*9190	*9190	*8380	7980	*7470	5810	10.66
	lb							*20260	*20260	*18470	17590	*16470	12810	(35.0)
4.5 m (15 ft)	kg			*16290	*16290	*12260	*12260	*10120	*10120	*8830	7750	*7510	5290	11.05
	lb			*35910	*35910	*27030	*27030	*22310	*22310	*19470	17090	*16560	11660	(36.3)
3.0 m (10 ft)	kg			*20110	*20110	*14150	*14150	*11160	10110	*9380	7470	*7590	5040	11.20
	lb			*44330	*44330	*31200	*31200	*24600	22290	*20680	16470	*16730	11110	(36.7)
1.5 m (5 ft)	kg			*22300	21040	*15600	13560	*12020	9640	*9840	7200	*7680	5000	11.13
	lb			*49160	46390	*34390	29890	*26500	21250	*21690	15870	*16930	11020	(36.5)
Ground	kg			*22570	20490	*16260	13060	*12490	9310	*10050	7000	*7750	5190	10.82
	lb			*49760	45170	*35850	28790	*27540	20530	*22160	15430	*17090	11440	(35.5)
-1.5 m (-5 ft)	kg	*19050	*19050	*21590	20400	*16040	12850	*12390	9130	*9790	6900	*7740	5670	10.26
	lb	*42000	*42000	*47600	44970	*35360	28330	*27320	20130	*21580	15210	*17060	12500	(33.7)
-3.0 m (-10 ft)	kg	*25420	*25420	*19580	*19580	*14900	12870	*11510	9130			*7520	6620	9.40
	lb	*56040	*56040	*43170	*43170	*32850	28370	*25380	20130			*16580	14590	(30.8)
-4.5 m (-15 ft)	kg	*21120	*21120	*16290	*16290	*12560	*12560	*9330	*9330			*6750	*6750	8.11
	lb	*46560	*46560	*35910	*35910	*27690	*27690	*20570	*20570			*14880	*14880	(26.6)
-6.0 m (-20 ft)	kg			*10870	*10870									
	lb			*23960	*23960									

- 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 Capacity

## R520LC-9

Rating over-front Rating over-side or 360 degree

Boom : 7.06m (23' 2") / Arm : 4.00 m (13' 1") / Bucket : 2.15 m<sup>3</sup> (2.81 yd<sup>3</sup>) 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)		10.5 m (35 ft)		Capacity		Reach												
																m (ft)												
7.5 m (25 ft)	kg													*6160	*6160		*6770	5950	10.64									
	lb													*13580	*13580		*14930	13120	(34.9)									
6.0 m (20 ft)	kg													*7670	*7670		*6770	5200	11.26									
	lb													*16910	*16910		*14930	11460	(36.9)									
4.5 m (15 ft)	kg													*9320	*9320	*8200	7790	*5180	*5180	*6830	4750	11.62						
	lb													*20550	*20550	*18080	17170	*11420	*11420	*15060	10470	(38.1)						
3.0 m (10 ft)	kg															*18340	*18340	*13130	*13130	*10450	10170	*8830	7470	*6760	5620	*6920	4520	11.77
	lb															*40430	*40430	*28950	*28950	*23040	22420	*19470	16470	*14900	12390	*15260	9960	(38.6)
1.5 m (5 ft)	kg															*21260	*21260	*14840	13650	*11460	9640	*9410	7150	*7540	5450	*7030	4480	11.70
	lb															*46870	*46870	*32720	30090	*25260	21250	*20750	15760	*16620	12020	*15500	9880	(38.4)
Ground	kg	*13810	*13810	*22360	20460	*15850	13020	*12130	9240	*9780	6900	*6850	5310	*7130	4620	11.41												
	lb	*30450	*30450	*49300	45110	*34940	28700	*26740	20370	*21560	15210	*15100	11710	*15720	10190	(37.4)												
-1.5 m (-5 ft)	kg	*18040	*18040	*22000	20150	*16010	12700	*12290	8990	*9780	6750			*7190	5000	10.88												
	lb	*39770	*39770	*48500	44420	*35300	28000	*27090	19820	*21560	14880			*15850	11020	(35.7)												
-3.0 m (-10 ft)	kg	*23040	*23040	*20520	20190	*15290	12620	*11780	8920	*9150	6730			*7110	5740	10.08												
	lb	*50790	*50790	*45240	44510	*33710	27820	*25970	19670	*20170	14840			*15670	12650	(33.1)												
-4.5 m (-15 ft)	kg	*24400	*24400	*17830	*17830	*13520	12770	*10290	9030					*6710	*6710	8.91												
	lb	*53790	*53790	*39310	*39310	*29810	28150	*22690	19910					*14790	*14790	(29.2)												
-6.0 m (-20 ft)	kg	*17570	*17570	*13410	*13410	*10090	*10090																					
	lb	*38740	*38740	*29560	*29560	*22240	*22240																					

Boom : 9.00m (29' 6") / Arm : 5.85 m (19' 2") / Bucket : 1.38 m<sup>3</sup> (1.80 yd<sup>3</sup>) SAE heaped / Shoe : 600mm (24") triple grouser

Load point height m (ft)		Load radius										At max. reach																		
		3.0 m (10 ft)		5.0 m (15 ft)		7.0 m (25 ft)		9.0 m (30 ft)		11.0 m (35 ft)		13.0 m (45 ft)		Capacity		Reach														
																m (ft)														
10.0 m (35 ft)	kg																*4210	3970	13.66											
	lb																*9280	8750	(44.8)											
8.0 m (25 ft)	kg																*4750	*4750	*2800	*2800	*4140	3270	14.63							
	lb																*10470	*10470	*6170	*6170	*9130	7210	(48.0)							
6.0 m (20 ft)	kg																*5130	*5130	*4310	4110	*4130	2840	15.25							
	lb																*11310	*11310	*9500	9060	*9110	6260	(50.0)							
4.0 m (15 ft)	kg																		*8700	*8700	*6790	*6790	*5650	5520	*4910	3900	*4170	2580	15.57	
	lb																			*19180	*19180	*14970	*14970	*12460	12170	*10820	8600	*9190	5690	(51.1)
2.0 m (5 ft)	kg																													
	lb																													
Ground	kg																													
	lb																													
-2.0 m (-5 ft)	kg	*11290	*11290	*17600	15570	*12130	9250	*8870	6270	*6840	4500	*5410	3320	*43																