

Robex

# 380LC-9A

With Tier 4 Interim Engine installed

HYUNDAI HEAVY INDUSTRIES

MOVING YOU FURTHER



\*Photo may include optional equipment.

 **HYUNDAI**  
CONSTRUCTION EQUIPMENT AMERICAS, INC.



# PRIDE AT WORK

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

*Take pride in your work with Hyundai!*





# Robex 380LC-9A

## Machine Walk-Around

### Engine Technology

Proven, reliable, fuel efficient, low emission and low noise  
Cummins Tier 4 interim & EU stage III B engine

### Hydraulic System Improvements

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

### Pump Compartment

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

### Enhanced Operator Cab

#### Improved Visibility

Enlarged cab with improved visibility / See-through upper skylight for visibility and ventilation  
Larger right-side glass, now one piece, for better right visibility / Safety glass windows on all sides  
Reduced front window seam for improved operator view  
Closeable sunshade and roll-up type sun visor for operator convenience

#### 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  
Heated suspension seat (standard) or optional air ride suspension seat with heater  
New joystick consoles - now adjustable in height by pushing the button  
Integrated seat with consoles - reduce the operator fatigue

#### Advanced 7" Color Cluster with Touch Screen

New Color LCD Display with easy to read digital gauges for hydraulic oil temperature, water temperature, and fuel level. Simplified design makes adjustment and diagnostics easier. Also, new enhanced features such as rear-view camera are integrated into monitor.  
3 power modes : (P) Power, (S) Standard, (E) Economy, 2 work modes : Dig & Attachment, (U) User mode for operator preference  
Enhanced self-diagnostic features with GPS download capability  
One pump flow or two pump flow for optional attachment is now selectable through the cluster /  
New anti-theft system with password capability  
Boom speed and arm regeneration are selectable through the monitor.  
Auto power boost is now available - selectable (on/off) through the monitor.  
Powerful air conditioning and heat with auto climate control

#### RMS

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.

# PRECISION

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



\*Photo may include optional equipment.



## Computer Aided Power

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

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

### Power Mode

P (Power Max) mode maximizes machine speed and power for mass production.

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

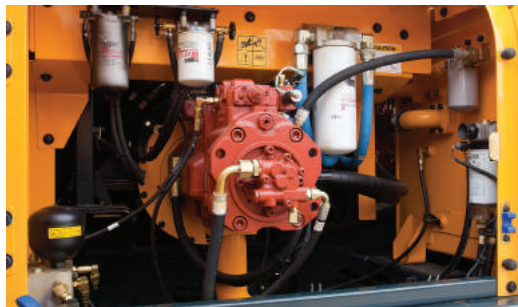
### Work Mode

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

### User Mode

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

## Improved Hydraulic System

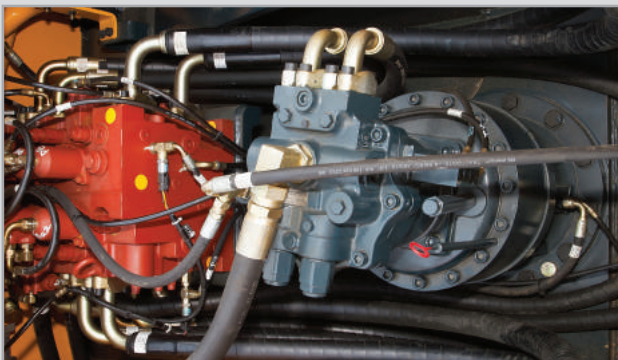


To achieve optimum precision, Hyundai redesigned the hydraulic system to provide the operator with super fine touch and improved controllability. Improved pump flow control reduces flow when controls are not being used to minimize fuel consumption.

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

Improved hydraulic valves, precision-designed variable volume piston pumps, fine-touch pilot controls, and enhanced travel functions make any operator running a 9A series look like a smooth operator. Newly improved

features include arm-in and boom-down flow regeneration, improved control valve technology and innovative auto boom and swing priority for optimal performance in any application.



## Auto Boom-swing Priority

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

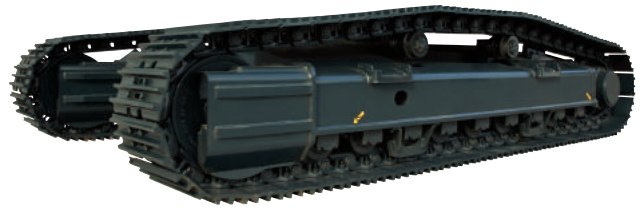
# PERFORMANCE

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



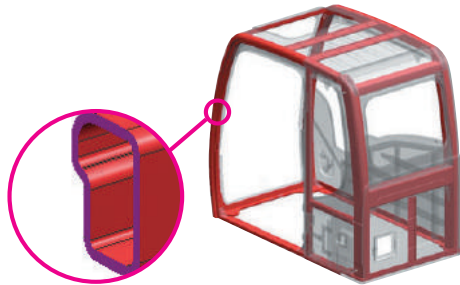
\*Photo may include optional equipment.





## Track Rail Guard & Adjusters

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



## Structure Strength

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

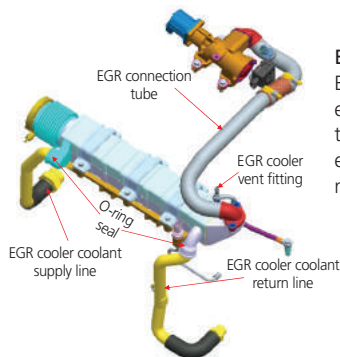
The optional ROPS (Roll Over Protective Structure) cab can be equipped to enhance operator safety.



## Cummins QSL9 Engine

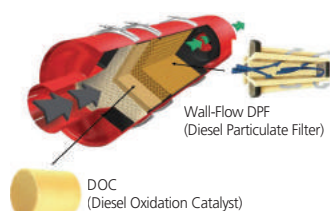
Built on a heritage of reliability and durability, Cummins QSL9 for Tier 4 Interim/Stage IIIB regulations takes a major step forward with the introduction of an Xtra-High Pressure Injection (XPI) fuel system. This heavy-duty system delivers a constant stream of pressurized fuel across all engine rpm speeds, providing cleaner combustion and improved engine response with multiple injections every combustion cycle. The fuel system is complemented by Cummins VGT, which continuously varies the airflow to precisely match engine rpm and load demands for optimal performance.

Each component and system is carefully matched and managed through a more robust Electronic Control Module (ECM) and the Cummins Particulate Filter. The total integration and optimization of all elements working together results in better performance, lower maintenance and better fuel economy than the previous model. The QSL9 for Tier 4 Interim/Stage IIIB is designed to provide the lowest cost of operation in its class, delivering superior lifetime value.



### EGR (Exhaust Gas Recirculation)

EGR works by recirculating a portion of an engine's exhaust gas back to the engine cylinders. In a diesel engine, the exhaust gas replaces some of the excess oxygen in the pre-combustion mixture. The lower combustion chamber temperatures caused by EGR reduces the amount of NOx the combustion generates. This Eco-friendly system improves engine life through reduced cylinder temperatures and total cost of ownership is lower than that of SCR since there is no need for maintenance.



### DPF - Clean Emission Aftertreatment Module

DPF - Robust Clean Emission Aftertreatment Module - contains a DOC (Diesel Oxidation Catalyst) and DPF (Diesel Particulate Filter). High efficient DPF captures more than 90% reduction of particulate matter. Regeneration - the process by which soot is removed from DPF - is automatically done in both passive and active way depending on the soot level and dose not interrupt the daily machine operation. The operator can also initiate regeneration manually or disable regeneration on the working environment.



### VGT (Variable Geometry Turbocharger)

Newly designed VGT with electric actuator delivers optimum air flow resulting in cleaner exhaust gas, quick transient acceleration and improved fuel economy by combining the benefits at low & high engine speed.



# PREFERENCE

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



\*Photo may include optional equipment.



## Wide Cabin with Excellent Visibility

The newly designed cabin 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 9A series cabin you can easily adjust the seat, console and armrest settings to best suit your comfort level. The seat integrated with console absorb console vibration by seat suspension and reduce operator's fatigue. New joystick consoles are adjustable in height by pushing the button. Other preference settings that add to overall operator comfort include the fully automatic high capacity airconditioning system, transparent polycarbonate glass sun roof, large and easy to control sun visor, Radio / USB player, and a remote control for blue tooth-handsfree and radio <walkie-talkie> handsfree.



## Reduced Stress

Work is stressful enough. Your work environment should be stress free. Hyundai's 9A series provides improved cab amenities, additional space and a comfortable seat to minimize stress to the operator. A powerful climate control system provides the operator with optimum air temperature. An advanced audio system with USB player, AM/FM stereo and MP3 capabilities, plus remotely located controls is perfect for listening to music favorites.

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



## Smart Key System (Option)

9A series excavators provide smart key system as an option. This allows the operator to start the engine by the push of a starter button without inserting a key in the ignition.



## Operator - Friendly Cluster

The advanced new cluster with 7 inch wide color LCD with touch 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.

The newly applied FM transmitter application transmits signal to USB & Radio player with the same frequency as cluster. The player outputs the audio through the internal speaker in the cab. The video & firmware updates are possible with USB host support and an adjustable cluster hinge bracket improves cluster visibility.

## Monitor Tilt Range



**Horizontal**  
Total : 15°



**Vertical**  
Total : 30°





# PROFITABILITY

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



\*Photo may include optional equipment.



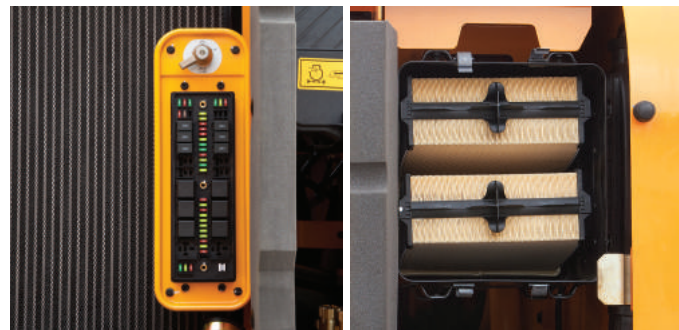
## Fuel Efficiency

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



### Hi-mate (Remote Management System)

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



## Easy Access

Wide service doors and latches make service more convenient on the 9A series. All lubrication fittings are centralized and close together for easy service.



## Long-Life Components

9A series excavators were designed with bushings designed for long-life lube intervals (250hrs) & 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 downtime.



# Specifications

## ENGINE

MODEL	Cummins QSL9		
Type	Water-cooled, 4-cycle diesel, 6-cylinder in-line, Direct injection, Turbocharged, Charger air cooled, Low emission		
Rated flywheel horse power	SAE	J1995 (gross)	310 HP (231 kW)/ 1,650 rpm
		J1349 (net)	290 HP (216 kW)/ 1,650 rpm
	DIN	6271/1 (gross)	314 PS (231 kW)/ 1,650 rpm
		6271/1 (net)	294 PS (216 kW)/ 1,650 rpm
Max. torque	148.0 kgf-m(1,070 lbf-ft)/ 1,400 rpm		
Bore X stroke	114 x 145 mm (4.5" x 5.7")		
Piston displacement	8,900 cc (540 in <sup>3</sup> )		
Batteries	2 X 12 V X 160 AH		
Starting motor	24 V- 7.5 kW		
Alternator	24 V- 95 Amp		

## HYDRAULIC SYSTEM

<b>MAIN PUMP</b>	
Type	Variable displacement piston pump
Rated flow	2 X 288.8L /min (76.3 US gpm / 63.5 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system.	

<b>HYDRAULIC MOTORS</b>	
Travel	Two speed axial pistons motor with brake valve and parking brake
Swing	Axial piston motor with automatic brake

<b>RELIEF VALVE SETTING</b>	
Implement circuits	330 kgf/cm <sup>2</sup> (4,690 psi)
Travel	360 kgf/cm <sup>2</sup> (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm <sup>2</sup> (5,120 psi)
Swing circuit	290 kgf/cm <sup>2</sup> (4,125 psi)
Pilot circuit	40 kgf/cm <sup>2</sup> (569 psi)
Service valve	Installed

<b>HYDRAULIC CYLINDERS</b>	
No. of cylinder bore X stroke	Boom: 2-160 X 1,500 mm (6.3" X 59.1")
	Arm: 1-170 X 1,760 mm (6.7" X 69.3")
	Bucket: 1-150 X 1,295 mm (5.9" X 51.0")

## DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	32,000 kgf (70,550 lbf)
Max. travel speed(high) / (low)	4.8 km/hr (3.0 mph) / 3.1 km/hr (1.9 mph)
Gradeability	35° (70 %)
Parking brake	Multi wet disc

## CONTROL

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

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

## SWING SYSTEM

Swing motor	Fixed displacement axial pistons motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.4 rpm

## COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Refilling			
Fuel tank	600	158.5	132
Engine coolant	40	10.5	8.8
Engine oil	30	7.9	6.6
Swing device-gear oil	8	2.1	1.8
Final drive(each)-gear oil	5.5	1.5	1.2
Hydraulic system(including tank)	410	108.3	90.2
Hydraulic tank	210	55.5	46.2

## 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	51
No. of carrier roller on each side	2
No. of track roller on each side	9
No. of rail guard on each side	2

## OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 6,500mm (21' 4") boom, 3,200mm (10' 6") arm, SAE heaped 1.62m<sup>3</sup> (2.12 yd<sup>3</sup>) HD bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

<b>MAJOR COMPONENT WEIGHT</b>		
Type	R380LC-9A	R380NLC-9A
Upperstructure	8,750 kg (19,290 lb)	
Boom (with Arm cylinder)	3,780 kg (8,330 lb)	
Arm (with Bucket cylinder)	2,010 kg (4,430 lb)	

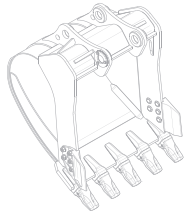
<b>OPERATING WEIGHT</b>				
Shoes		Operating weight		Ground pressure
Type	Width mm (in)	Type	kg(lb)	kgf/cm <sup>2</sup> (psi)
Triple grouser	600 (24")	R380LC-9A	38,450 (84,770)	0.69 (9.81)
		R380NLC-9A	38,350 (84,550)	0.69 (9.81)
	700 (28")	R380LC-9A	38,900 (85,760)	0.60 (8.53)
	750 (30")	R380LC-9A	39,125 (86,260)	0.56 (7.96)
	800 (32")	R380LC-9A	39,350 (86,750)	0.53 (7.54)
Heavy duty	900 (36")	R380LC-9A	39,800 (87,740)	0.47 (6.68)
	600 (24")	R380LC-9A	38,840 (85,630)	0.69 (9.81)
	700 (28")	R380LC-9A	39,360 (86,770)	0.60 (8.53)
Double grouser	600 (24")	R380LC-9A	38,695 (85,310)	0.69 (9.81)
	700 (28")	R380LC-9A	39,195 (86,410)	0.60 (8.53)



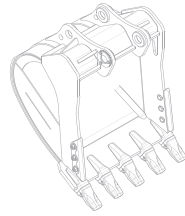
## BUCKETS

All buckets are welded with high-strength steel.

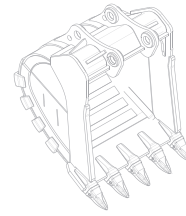
SAE heaped  
m<sup>3</sup> (yd<sup>3</sup>)



□ 1.46(1.91)  
1.62(2.12)  
1.90(2.49)  
2.10(2.75)  
2.32(3.03)



□ 1.46(1.91)  
1.62(2.12)  
1.90(2.49)  
2.10(2.75)



□ 1.46(1.91)  
1.62(2.12)  
1.90(2.49)

Capacity m <sup>3</sup> (yd <sup>3</sup> )		With mm (in)	Weight kg (lb)	Tooth EA	Recommendation mm (ft-in)							
SAE heaped	CECE heaped				6,150 (20' 2") Boom	6,500 (21' 4") Boom	6,500 (21' 4") Boom	6,500 (21' 4") Boom	6,500 (21' 4") Boom	6,500 (21' 4") Boom	8,600 (28' 3") Boom	
						2,500 (8' 2") Arm	2,500 (10' 6") Arm	2,900 (12' 10") Arm	3,200 (14' 1") Arm	3,900 (8' 2") Arm	4,300 (16' 9") Arm	5,100 (16' 9") Arm
□ 1.46(1.91)	1.28(1.67)	1,370(53.9")	1,430(3,150)	4	●	●	●	●	□	■	▲	-
□ 1.62(2.12)	1.42(1.86)	1,480(58.3")	1,530(3,370)	5	●	□	□	□	■	□	-	-
□ 1.90(2.49)	1.65(2.16)	1,665(65.6")	1,640(2,450)	5	□	■	■	■	□	▲	-	-
□ 2.10(2.75)	1.84(2.41)	1,800(70.9")	1,720(3,790)	5	■	■	□	□	▲	-	-	-
□ 2.32(3.03)	2.02(2.64)	1,950(76.8")	1,830(4,030)	6	■	□	□	▲	-	-	-	-
□ 1.46(1.91)	1.28(1.67)	1,370(53.9")	1,560(3,440)	4	●	●	●	□	□	■	-	-
□ 1.62(2.12)	1.42(1.86)	1,480(58.3")	1,660(3,660)	5	●	□	□	□	■	□	-	-
□ 1.90(2.49)	1.65(2.16)	1,665(65.6")	1,790(3,950)	5	□	■	■	□	□	▲	-	-
□ 2.10(2.75)	1.84(2.41)	1,800(70.9")	1,880(4,140)	5	■	□	□	□	▲	-	-	-
□ 1.46(1.91)	1.28(1.67)	1,370(53.9")	1,750(3,860)	4	●	●	□	□	■	□	-	-
□ 1.62(2.12)	1.42(1.86)	1,480(58.3")	1,850(4,080)	5	●	□	■	■	□	□	-	-
□ 1.90(2.49)	1.65(2.16)	1,665(65.6")	1,990(4,390)	5	■	■	□	□	-	-	-	-

- General Purpose
- heavy duty
- Rock

- : Applicable for materials with density of 2,100 kg /m<sup>3</sup> (3,500 lb/ yd<sup>3</sup>) or less
- : Applicable for materials with density of 1,800 kg /m<sup>3</sup> (3,000 lb/ yd<sup>3</sup>) or less
- : Applicable for materials with density of 1,500 kg /m<sup>3</sup> (2,500 lb/ yd<sup>3</sup>) or less
- : Applicable for materials with density of 1,200 kg /m<sup>3</sup> (2,000 lb/ yd<sup>3</sup>) or less
- ▲ : Applicable for materials with density of 900 kg /m<sup>3</sup> (1,500 lb/ yd<sup>3</sup>) or less
- : Not Recommended

## ATTACHMENT

Booms and arms are of all-welded, low-stress, full-box section design. 6.15m (20' 2"), 6.5m (21' 4"), 8.6m (28' 3") booms and 2.5m (8' 2"), 2.9m (9' 6"), 3.2m (10' 6"), 3.9m (12' 10"), 4.3m (14' 1"), 5.1m (16' 9") arms are available. Hyundai Bucket are all-welded, high-strength steel implements.

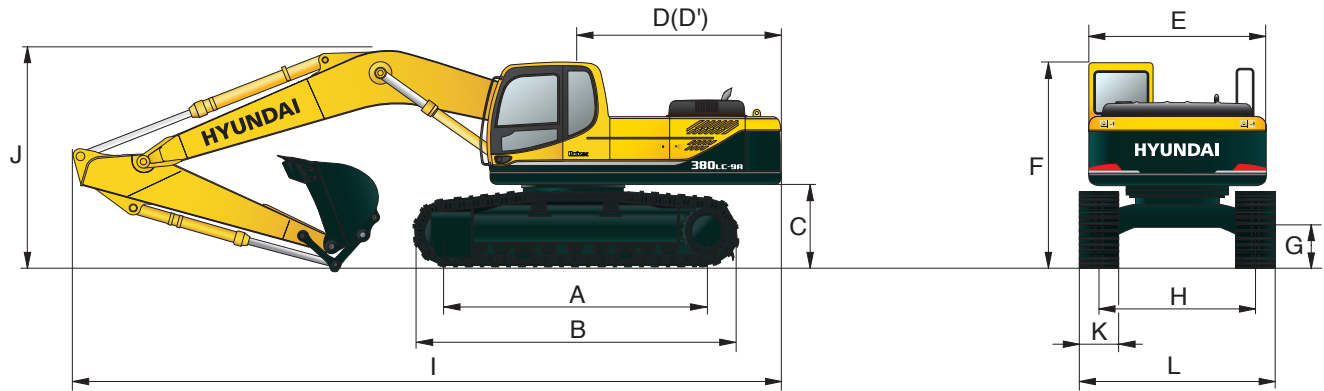
## DIGGING FORCE

Boom	Length	mm (ft-in)	6,150 (20' 2")		6,500 (21' 4")						8,600 (28' 3")		Remarks	
	Weight	kg (lb)	3,640 (8,020)		3,780 (8,330)						4,560 (10,050)			
Arm	Length	mm (ft-in)	2,500 (8' 2")		2,900 (9' 6")		3,200 (10' 6")		3,900 (12' 10")		4,300 (14' 1")		5,100 (16' 9")	
	Weight	kg (lb)	1,990 (4,390)		2,140 (4,730)		2,010 (4,430)		2,220 (4,890)		2,340 (5,160)		2,560 (5,640)	
Bucket digging force	SAE	kN	201.0	[219.3]	201.0	[219.3]	201.0	[219.3]	201.0	[219.3]	201.0	[219.3]	201.0	
		kgf	20,500	[22,360]	20,500	[22,360]	20,500	[22,360]	20,500	[22,360]	20,500	[22,360]	20,500	
		lbf	45,190	[49,300]	45,190	[49,300]	45,190	[49,300]	45,190	[49,300]	45,190	[49,300]	45,190	
	ISO	kN	228.5	[249.3]	228.5	[249.3]	228.5	[249.3]	228.5	[249.3]	228.5	[249.3]	228.5	
		kgf	23,300	[25,420]	23,300	[25,420]	23,300	[25,420]	23,300	[25,420]	23,300	[25,420]	23,300	
		lbf	51,370	[56,040]	51,370	[56,040]	51,370	[56,040]	51,370	[56,040]	51,370	[56,040]	51,370	
Arm crowd force	SAE	kN	184.4	[201.1]	164.8	[179.8]	152.0	[165.8]	135.3	[147.6]	124.5	[135.8]	124.5	
		kgf	18,800	[20,510]	16,800	[18,330]	15,500	[16,910]	13,800	[15,050]	12,700	[13,850]	12,700	
		lbf	41,450	[45,220]	37,040	[40,410]	34,170	[37,280]	30,420	[33,180]	28,000	[30,530]	28,000	
	ISO	kN	192.2	[209.7]	170.6	[186.1]	156.9	[171.1]	139.3	[151.9]	128.5	[140.1]	128.5	
		kgf	19,600	[21,380]	17,400	[18,980]	16,000	[17,450]	14,200	[15,490]	13,100	[14,290]	13,100	
		lbf	43,210	[47,140]	38,360	[41,840]	35,270	[38,470]	31,310	[34,150]	28,880	[31,500]	28,880	

Note : Boom weight includes arm cylinder, piping, and pin  
Arm weight includes bucket cylinder, linkage, and pin

# Dimensions & Working Range

## R380LC-9A / R380NLC-9A DIMENSIONS



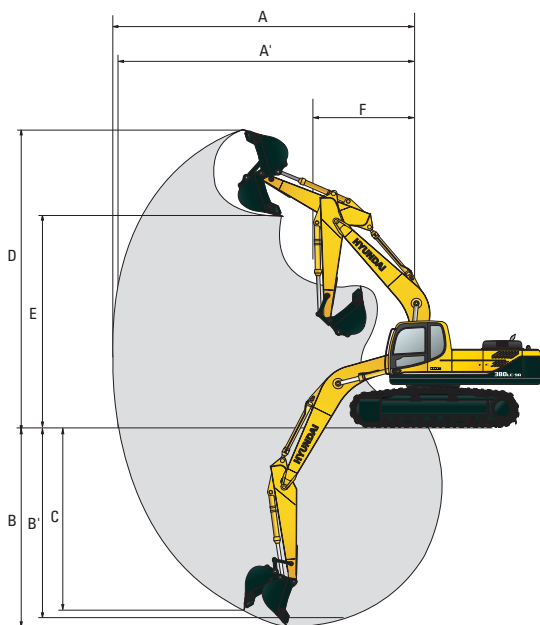
mm (ft-in)

Unit : mm (ft-in)

A Tumbler distance	4,340 (14' 3")	Boom length	6,150 (20' 2")	6,500 (21' 4")					8,600 (28' 3")
B Overall length of crawler	5,280 (17' 4")	Arm length	2,500 (8' 2")	2,500 (8' 2")	2,900 (9' 6")	3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	5,100 (18' 9")
C Ground clearance of counterweight	1,290 (4' 3")	I Overall length	10,880 (43' 0")	11,240 (36' 11")	11,180 (38' 8")	11,120 (36' 6")	11,160 (36' 7")	11,110 (36' 5")	13,070 (42' 11")
D Tail swing radius	3,415 (11' 2")	J Overall height of boom	3,760 (12' 4")	3,710 (12' 2")	3,540 (11' 7")	3,450 (11' 4")	3,880 (12' 9")	4,300 (14' 1")	4,910 (16' 1")
D' Rear-end length	3,350 (10' 12")	K Track shoe width	600 (24")	700 (28")	750 (30")	800 (32")	900 (36")		
E Overall width of upperstructure	2,980 (9' 9")	L Overall width	R380LC-9A	3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")	
F Overall height of cab	3,175 (10' 5")		R380NLC-9A	2,990 (9' 10")	-	-	-	-	
G Min. ground clearance	550 (1' 10")								
H Track gauge	R380LC-9A 2,740 (8' 12") R380NLC-9A 2,390 (7' 10")								

## R380LC-9A / R380NLC-9A WORKING RANGE

Unit : mm (ft-in)



Boom length	6,150 (20' 2")	6,500 (21' 4")					8,600 (28' 3")
Arm length	2,500 (8' 2")	2,500 (8' 2")	2,900 (10' 6")	3,200 (10' 6")	3,900 (12' 10")	4,300 (14' 1")	5,100 (16' 9")
A Max. digging reach	10,330 (33' 11")	10,720 (35' 2")	11,000 (36' 1")	11,250 (36' 11")	11,870 (38' 11")	12,380 (40' 7")	11,140 (36' 7")
A' Max. digging reach on ground	10,100 (33' 2")	10,490 (34' 5")	10,780 (35' 4")	11,040 (36' 3")	11,670 (38' 3")	12,180 (39' 12")	10,940 (35' 11")
B Max. digging depth	6,450 (21' 2")	6,820 (22' 5")	7,220 (23' 8")	7,520 (24' 8")	8,220 (26' 12")	8,620 (28' 3")	7,370 (24' 2")
B' Max. digging depth (8' level)	6,720 (20' 7")	6,540 (21' 9")	7,080 (23' 2")	7,360 (24' 2")	8,080 (26' 6")	8,490 (27' 10")	7,210 (23' 8")
C Max. vertical wall digging dept	5,490 (18' 0")	5,930 (19' 5")	5,970 (19' 7")	6,330 (20' 9")	7,040 (23' 1")	7,540 (24' 9")	6,360 (20' 10")
D Max. digging height	10,320 (33' 10")	10,590 (34' 9")	10,480 (34' 5")	10,570 (34' 8")	10,800 (35' 5")	11,360 (37' 3")	10,310 (33' 10")
E Max. dumping height	7,120 (23' 4")	7,370 (24' 2")	7,330 (24' 1")	7,410 (24' 4")	7,840 (25' 1")	8,160 (26' 9")	7,240 (23' 9")
F Min. swing radius	4,220 (13' 10")	4,530 (14' 10")	4,540 (14' 11")	4,450 (14' 7")	4,440 (14' 7")	4,460 (14' 8")	4,470 (14' 8")













# Lifting Capacity











## R380LC-9A

 Rating over-front  Rating over-side or 360 degree















Boom : 6.15 m (20' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m<sup>3</sup> (2.12 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 m (ft)	
												
9.0 m (30 ft)	kg									*7340	*7340	6.65
	lb									*16180	*16180	(21.8)
7.5 m (25 ft)	kg									*7180	6040	8.02
	lb									*15830	13320	(26.3)
6.0 m (20 ft)	kg					*8390	*8390	*6360	*6360	*7220	4820	8.88
	lb					*18500	*18500	*14020	*14020	*15920	10630	(29.1)
4.5 m (15 ft)	kg	*18060	*18060	*11970	*11970	*9590	9590	*8420	6440	7310	4180	9.38
	lb	*39820	*39820	*26390	*26390	*21140	21140	*18560	14200	16120	9220	(30.8)
3.0 m (10 ft)	kg			*15150	14110	*11090	8920	*9140	6130	6880	3870	9.58
	lb			*33400	31110	*24450	19670	*20150	13510	15170	8530	(31.4)
1.5 m (5 ft)	kg			*17500	12970	*12420	8330	*9850	5810	6840	3810	9.52
	lb			*38580	28590	*27380	18360	*21720	12810	15080	8400	(31.2)
Ground	kg	*13560	*13560	*18320	12430	*13190	7930	10000	5580	7200	4000	9.19
	lb	*29890	*29890	*40390	27400	*29080	17480	22050	12300	15870	8820	(30.2)
-1.5 m (-5 ft)	kg	*21190	*21190	*17920	12300	*13180	7760	9890	5480	*8100	4550	8.53
	lb	*46720	*46720	*39510	27120	*29060	17710	21800	12080	*17860	10030	(28.0)
-3.0 m (-10 ft)	kg	*22680	*22680	*16340	12430	*12110	7820			*7940	5800	7.47
	lb	*50000	*50000	*36020	27400	*26700	17240			*17500	12790	(24.5)
-4.5 m (-15 ft)	kg	*17610	*17610	*12880	*12880							
	lb	*38820	*38820	*28400	*28400							

Boom : 6.5 m (21' 4") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m<sup>3</sup> (2.12 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 m (ft)	
												
9.0 m (30 ft)	kg									*6590	*6590	7.22
	lb									*14530	*14530	(23.7)
7.5 m (25 ft)	kg									*6530	5230	8.49
	lb									*14400	11530	(27.9)
6.0 m (20 ft)	kg					*7780	*7780	*7270	6480	*6610	4240	9.29
	lb					*17150	*17150	*16030	14290	*14570	9350	(30.5)
4.5 m (15 ft)	kg			*11660	*11660	*9080	*9080	*7850	6220	6630	3700	9.77
	lb			*25710	*25710	*20020	*20020	*17310	13710	14620	8160	(32.1)
3.0 m (10 ft)	kg			*14960	13320	*10660	8520	*8660	5880	6280	3450	9.97
	lb			*32980	29370	*23500	18780	*19090	12960	13850	7610	(32.7)
1.5 m (5 ft)	kg			*17220	12300	*12020	7940	*9440	5570	6250	3400	9.91
	lb			*37960	27120	*26500	17500	*20810	12280	13780	7500	(32.5)
Ground	kg			*17930	11940	*12830	7600	9750	5350	6580	3580	9.59
	lb			*39530	26320	*28290	16760	21500	11790	14510	7890	(31.5)
-1.5 m (-5 ft)	kg	*17990	*17990	*17600	11930	*12940	7480	9660	5280	7380	4070	8.97
	lb	*39660	*39660	*38800	26300	*28530	16490	21300	11640	16270	8970	(29.4)
-3.0 m (-10 ft)	kg	*22550	*22550	*16330	12140	*12200	7580			*7610	5100	7.97
	lb	*46710	*46710	*36000	26760	*26900	16710			*16780	11240	(26.1)
-4.5 m (-15 ft)	kg	*18530	*18530	*13650	12620					*6880	*6880	6.39
	lb	*40850	*40850	*30090	27820					*15170	*15170	(21.0)

Boom : 6.5 m (21' 4") / Arm : 2.9 m (10' 6") / Bucket : 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) 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)			
																		
9.0 m (30 ft)	kg												*5910	*5910	7.62			
	lb												*13030	*13030	(25.0)			
7.5 m (25 ft)	kg												*5940	4840	8.82			
	lb												*13100	10670	(28.9)			
6.0 m (20 ft)	kg												*6070	3940	9.59			
	lb												*13380	8690	(31.5)			
4.5 m (15 ft)	kg					*10480	*10480	*8360	*8360	*7290	6230		6250	3440	10.05			
	lb					*23100	*23100	*18430	*18430	*16070	13730		13780	7580	(33.0)			
3.0 m (10 ft)	kg					*13800	13560	*9980	8560	*8160	5850	*5850	4130	5910	3180	10.25		
	lb					*30420	29890	*22000	18870	*17990	12900	*12900	9110	13030	7010	(33.6)		
1.5 m (5 ft)	kg					*16400	12350	*11470	7910	*9010	5500	*6870	3960	5870	3130	10.19		
	lb					*36160	27230	*25290	17440	*19860	12130	*15150	8730	12940	6900	(33.4)		
Ground	kg					*12680	*12680	*17570	11810	*12460	7490	*9640	5240	*5550	3830	6140	3280	9.88
	lb					*27950	*27950	*38740	26040	*27470	16510	*21250	11550	*12240	8440	13540	7230	(32.4)
-1.5 m (-5 ft)	kg	*14590	*14590	*18220	*18220	*17600	11690	*12780	7310	9500	5120				6830	3690	9.28	
	lb	*32170	*32170	*40170	*40170	*38800	25770	*28180	16120	20940	11290				15060	8140	(30.4)	
-3.0 m (-10 ft)	kg	*19350	*19350	*23760	*23760	*16660	11830	*12320	7350	*9350	5170				*7520	4560	8.33	
	lb	*42660	*42660	*52380	*52380	*36730	26080	*27160	16200	*20610	11400				*16580	10050	(27.3)	
-4.5 m (-15 ft)	kg					*20160	*20160	*14470	12240	*10640	7640				*7280	6640	6.85	
	lb					*44450	*44450	*31900	26980	*23460	16840				*16050	14640	(22.5)	

- Lifting capacity are 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 (standard equipment) located on the back of the bucket.
- (\*) indicates load limited by hydraulic capacity.

















# Lifting Capacity











## R380NLC-9A

 Rating over-front  Rating over-side or 360 degree













Boom : 6.15 m (20' 2") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m<sup>3</sup> (2.12 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 m (ft)	
												
9.0 m (30 ft)	kg									*7340	*7340	6.65
	lb									*16180	*16180	(21.8)
7.5 m (25 ft)	kg									*7180	5140	8.02
	lb									*15830	11330	(26.3)
6.0 m (20 ft)	kg					*8390	*8390	*6360	5650	*7220	4050	8.88
	lb					*18500	*18500	*14020	12460	*15920	8930	(29.1)
4.5 m (15 ft)	kg	*18060	*18060	*11970	*11970	*9590	8170	*8420	5460	7290	3470	9.38
	lb	*39820	*39820	*26390	*26390	*21140	18010	*18560	12040	16070	7650	(30.8)
3.0 m (10 ft)	kg			*15150	11780	*11090	7530	*9140	5150	6860	3190	9.58
	lb			*33400	25970	*24450	16600	*20150	11350	15120	7030	(31.4)
1.5 m (5 ft)	kg			*17500	10700	*12420	6960	*9850	4840	6820	3120	9.52
	lb			*38580	23590	*27380	15340	*21720	10670	15040	6880	(31.2)
Ground	kg	*13560	*13560	*18320	10200	*13190	6580	9970	4620	7180	3280	9.19
	lb	*29890	*29890	*40390	22490	*29080	14510	21980	10190	15830	7230	(30.2)
Line	kg											
-1.5 m (-5 ft)	kg	*21190	20510	*17920	10070	*13180	6410	9860	4520	*8100	3750	8.53
	lb	*46720	45220	*39510	22200	*29060	14130	21740	9960	*17860	8270	(28.0)
-3.0 m (-10 ft)	kg	*22680	20880	*16340	10190	*12110	6460			*7940	4820	7.47
	lb	*50000	46030	*36020	22470	*26700	14240			*17500	10630	(24.5)
-4.5 m (-15 ft)	kg	*17610	*17610	*12880	10620							
	lb	*38820	*38820	*28400	23410							

Boom : 6.5 m (21' 4") / Arm : 2.5 m (8' 2") / Bucket : 1.62 m<sup>3</sup> (2.12 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 m (ft)	
												
9.0 m (30 ft)	kg									*6590	6220	7.22
	lb									*14530	13710	(23.7)
7.5 m (25 ft)	kg									*6530	4410	8.49
	lb									*14400	9720	(27.9)
6.0 m (20 ft)	kg					*7780	*7780	*7270	5490	*6610	3520	9.29
	lb					*17150	*17150	*16030	12100	*14570	7760	(30.5)
4.5 m (15 ft)	kg			*11660	*11660	*9080	7800	*7850	5240	6610	3030	9.77
	lb			*25710	*25710	*20020	17200	*17310	11550	14570	6680	(32.1)
3.0 m (10 ft)	kg			*14960	11030	*10660	7140	*8660	4910	6260	2800	9.97
	lb			*32980	24320	*23500	15740	*19090	10820	13800	6170	(32.7)
1.5 m (5 ft)	kg			*17220	10070	*12020	6580	*9440	4600	6230	2750	9.91
	lb			*37960	22200	*26500	14510	*20810	10140	13730	6060	(32.5)
Ground	kg			*17930	9730	*12830	6250	9720	4390	6550	2900	9.59
	lb			*39530	21450	*28290	13780	21430	9680	14440	6390	(31.5)
Line	kg											
-1.5 m (-5 ft)	kg	*17990	*17990	*17600	9710	*12940	6140	9630	4320	7360	3320	8.97
	lb	*39660	*39660	*38800	21410	*28530	13540	21230	9520	16230	7320	(29.4)
-3.0 m (-10 ft)	kg	*22550	20580	*16330	9910	*12200	6230			*7610	4220	7.97
	lb	*49710	45370	*36000	21850	*26900	13730			*16780	9300	(26.1)
-4.5 m (-15 ft)	kg	*18530	*18530	*13650	10370					*6880	6460	6.39
	lb	*40850	*40850	*30090	22860					*15170	14240	(21.0)

Boom : 6.5 m (21' 4") / Arm : 2.9 m (10' 6") / Bucket : 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) 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)			
																		
9.0 m (30 ft)	kg													*5910	5640	7.62		
	lb													*13030	12430	(25.0)		
7.5 m (25 ft)	kg								*3960	*3960				*5940	4060	8.82		
	lb								*8730	*8730				*13100	8950	(28.9)		
6.0 m (20 ft)	kg								*6640	5520				*6070	3250	9.59		
	lb								*14640	12170				*13380	7170	(31.5)		
4.5 m (15 ft)	kg					*10480	*10480	*8360	7880	*7290	5240			6230	2790	10.05		
	lb					*23100	*23100	*18430	17370	*16070	11550			13730	6150	(33.0)		
3.0 m (10 ft)	kg					*13800	11250	*9980	7170	*8160	4880	*5850	3390	5890	2560	10.25		
	lb					*30420	24800	*22000	15810	*17990	10760	*12900	7470	12990	5640	(33.6)		
1.5 m (5 ft)	kg					*16400	10100	*11470	6550	*9010	4530	*6870	3210	5850	2500	10.19		
	lb					*36160	22270	*25290	14440	*19860	9990	*15150	7080	12900	5510	(33.4)		
Ground	kg					*12680	*12680	*17570	9590	*12460	6140	9610	4280	*5550	3090	6120	2620	9.88
	lb					*27950	*27950	*38740	21140	*27470	13540	21190	9440	*12240	6810	13490	5780	(32.4)
Line	kg																	
-1.5 m (-5 ft)	kg	*14590	*14590	*18220	*17600	9480	*12780	5970	9480	4160				6810	2970	9.28		
	lb	*32170	*32170	*40170	*40170	*38800	20900	*28180	13160	20900	9170			15010	6550	(30.4)		
-3.0 m (-10 ft)	kg	*19350	*19350	*23760	19990	*16660	9610	*12320	6000	*9350	4210			*7520	3730	8.33		
	lb	*42660	*42660	*52380	44070	*36730	21190	*27160	13230	*20610	9280			*16580	8220	(27.3)		
-4.5 m (-15 ft)	kg			*20160	*20160	*14470	10000	*10640	6280					*7280	5520	6.85		
	lb			*44450	*44450	*31900	22050	*23460	13850					*16050	12170	(22.5)		

- 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

## R380NLC-9A

Rating over-front Rating over-side or 360 degree

Boom : 6.5 m (21' 4") / Arm : 3.2 m (10' 6") / Bucket : 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) 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)					
9.0 m (30 ft)													*5710	5300	7.97					
													*12590	11680	(26.1)					
7.5 m (25 ft)													*4390	*4390	9.12					
													*9680	*9680	(29.9)					
6.0 m (20 ft)													*6420	5710	9.87					
													*14150	12590	(32.4)					
4.5 m (15 ft)													*8060	*8060	10.32					
													*17770	*17770	(33.9)					
3.0 m (10 ft)													*13300	11710	10.50					
													*29320	25820	(34.4)					
1.5 m (5 ft)													*16150	10500	10.45					
													*35600	23150	(34.3)					
Ground													*17630	9880	10.14					
Line													*29260	*29260	(33.3)					
-1.5 m (-5 ft)	*13890	*13890	*17710	*17710	*17910	9690	*12940	6130	9590	4280			6550	2890	9.57					
	*30620	*30620	*39040	*39040	*39480	21360	*28530	13510	21140	9440			14440	6370	(31.4)					
-3.0 m (-10 ft)	*18060	*18060	*23000	20130	*17190	9750	*12660	6120	9600	4290			*7490	3550	8.65					
	*39820	*39820	*50710	44380	*37900	21500	*27910	13490	21160	9460			*16510	7830	(28.4)					
-4.5 m (-15 ft)	*22790	*22790	*21610	20770	*15290	10060	*11290	6320					*7450	5030	7.25					
	*50240	*50240	*47640	45790	*33710	22180	*24890	13930					*16420	11090	(23.8)					
-6.0 m (-20 ft)													*11190	10720						
													*24670	23630						

Boom : 6.5 m (21' 4") / Arm : 3.9 m (12' 10") / Bucket : 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) 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)				
9.0 m (30 ft)													*4980	4370	8.81				
													*10980	9630	(28.9)				
7.5 m (25 ft)													*5090	3320	9.85				
													*11220	7320	(32.3)				
6.0 m (20 ft)													*5620	*5620	10.54				
													*12390	*12390	(34.6)				
4.5 m (15 ft)													*6360	5450	10.95				
													*14020	12020	(35.9)				
3.0 m (10 ft)													*7330	5050	11.13				
													*42900	*42900	(36.5)				
1.5 m (5 ft)													*12880	*12880	11.07				
													*28400	*28400	(36.3)				
Ground													*13900	*13900	10.79				
Line													*30640	*30640	(35.4)				
-1.5 m (-5 ft)	*12810	*12810	*17050	*17050	*17630	9470	*12590	5960	*9430	4120	6970	2980	5710	2400	10.26				
	*28240	*28240	*37590	*37590	*38870	20880	*27760	13140	*20790	9080	15370	6570	12590	5290	(33.7)				
-3.0 m (-10 ft)	*16420	*16420	*21270	19510	*17360	94300	*12630	5870	9360	4060			6630	2880	9.42				
	*36200	*36200	*46890	43010	*38270	20790	*27840	12940	20640	8950			14620	6350	(30.9)				
-4.5 m (-15 ft)	*20490	*20490	*23270	20020	*15990	9630	*11750	5980	*8760	4190			*7130	3890	8.17				
	*45170	*45170	*51300	44140	*35250	21230	*25900	13180	*19310	9240			*15720	8580	(26.8)				
-6.0 m (-20 ft)													*18470	*18470	10130				
													*40720	*40720	*28570	22330			

Boom : 6.5 m (21' 4") / Arm : 4.3 m (14' 1") / Bucket : 1.62 m<sup>3</sup> (2.12 yd<sup>3</sup>) 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)		10.5 m (35 ft)		Capacity		Reach
																	m (ft)
9.0 m (30 ft)															*4730	3710	9.45
															*10430	8180	(31.0)
7.5 m (25 ft)															*4540	2860	10.42
															*5560	*5560	(34.2)
6.0 m (20 ft)															*4240	3950	11.07
															*9350	8710	(36.3)
4.5 m (15 ft)															*5830	5540	11.46
															*12850	12210	(37.6)
3.0 m (10 ft)															*16650	*16650	11.63
															*36710	*36710	(38.2)
1.5 m (5 ft)															*13910	*13910	11.58
															*30670	*30670	(38.0)
Ground															*13270	*13270	11.31
Line															*29260	*29260	(37.1)
-1.5 m (-5 ft)	*11300	*11300	*15660	*15660	*17380	9440	*12340	5940	9400	4080	6920	2920	5160	2080	10.81		
	*24910	*24910	*34520	*34520	*38320	20810	*27210	13100	20720	8990	15260	6440	11380	4590	(35.5)		
-3.0 m (-10 ft)	*14610	*14610	*19300	19220	*17440	9310	*12590	5790	9280	3970	*6440	2880	5910	2480	10.02		
	*32210	*32210	*42550	42370	*38450	20530	*27760	12760	20460	8750	*14200	6350	13030	5470	(32.9)		
-4.5 m (-15 ft)	*18400	*18400	*24280	19650	*16450	9440	*12020	5840	*9090	4030			*6480	3260	8.87		
	*40570	*40570	*53530	43320	*36270	20810	*26500	12870	*20040	8880			*14290	7190	(29.1)		
-6.0 m (-20 ft)	*23070	*23070	*20270	*20270	*14020	9840	*10130	6130					*6280	5080	7.15		
	*50860	*50860	*44690	*44690	*30910	21690	*22330	13510					*13850	11200	(23.5)		

- 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(LH)  
Lockable door  
Hot & cool box  
Storage compartment & Ashtray  
Radio & USB player  
Handsfree mobile phone system with USB  
Transparent cabin roof-cover  
12 volt power outlet (24V DC to 12V DC converter)  
Sun visor

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

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

### Automatic climate control

Air conditioner & heater  
Defroster

### Self-diagnostics system

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

### Centralized monitoring

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

### Door and cab locks, one key

### Three outside rearview mirrors

### Mechanical suspension seat with heater

### Pilot-operated slidable joystick

### Console box height adjust system

### Four front working lights

### Electric horn

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

### Battery master switch

### Removable clean-out dust net for cooler

### Automatic swing brake

### Removable reservoir tank

### Fuel pre-filter with fuel warmer

### Boom holding system

### Arm holding system

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

### Track rail guard

### Accumulator for lowering work equipment

### Electric transducer

### Lower frame under cover (Normal)

### Viscous fan clutch

## OPTIONAL EQUIPMENT

### Fuel filler pump (50 L/min)

### Beacon lamp

### Safety lock valve for boom cylinder with overload warning device

### Safety lock valve for arm cylinder

### Single-acting piping kit (breaker, etc.)

### Double-acting piping kit (clamshell, etc.)

### Quick coupler

### Travel alarm

### Booms

6.15 m, 20' 2"  
6.5 m, 21' 4"  
6.5 m, 21' 4" Heavy Duty  
8.6 m, 28' 3"

### Arms

2.5 m, 8' 2"  
2.9 m, 9' 6" Heavy Duty  
3.2 m, 10' 6"  
3.2 m, 10' 6" Heavy Duty  
3.9 m, 12' 10"  
4.3 m, 14' 1"  
5.1 m, 16' 9"

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

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

### Cabin ROPS (ISO 12117-2)

ROPS (Roll Over Protective Structure)

### Cabin guard-front

Wire net

Fine net

### Cabin roof-steel cover

### Cabin lights

### Cabin front window rain guard

### Track shoes

Double grousers shoe (600mm, 24")  
Double grousers shoe (700mm, 28")  
Heavy duty type shoe (600mm, 24")  
Heavy duty type shoe (700mm, 28")  
Triple grousers shoe (700mm, 28")  
Triple grousers shoe (750mm, 30")  
Triple grousers shoe (800mm, 32")  
Triple grousers shoe (900mm, 36")  
Full track rail guard

### Lower frame under cover (Additional)

### Fuel pre-filter with dual warmer

### Tool kit

### Operator suit

### Rearview camera

### Seat

Adjustable air suspension seat with heater

### Pattern change valve (2 patterns)

### Hi-mate (Remote Management System)

- \* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
- \* The photos may include attachments and optional equipment that are not available in your area.
- \* Materials and specifications are subject to change without advance notice.
- \* All imperial measurements rounded off to the nearest pound or inch.

PLEASE CONTACT



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