



HYUNDAI CONSTRUCTION EQUIPMENT

Head Office(Sales Office)
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PLEASE CONTACT

Gross Power (SAE J1995)
126 HP (94 kW) / 2,100 rpm

Net Power (SAE J1349)
116 HP (87 kW) / 2,100 rpm

Bucket Capacity
0.39 ~ 1.05m³

Operating Weight
18,350 kg / 40,450 lb

Robex
180LC-9S
With Tier 2 Engine installed



PRIDE AT WORK

Robex 180LC-9S

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!

Machine Walk-Around

Engine Technology

Easy & Simple Serviceability / Auto engine warm up 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 valves, 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
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
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 / satellite technology
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 7 series!

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.

Operator Comfort

In 9S Series cabin you can easily adjust the seat, console and armrest settings to best suit your personal operating preferences.

Seat and console position can be set together and independent from each other.

Other preference settings that add to overall operator comfort include the fully 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 9S 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 is perfect for listening to music favorites.

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 - 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 were integrated into the cluster to make the machine more versatile and the operator more productive.



PREFERENCE

Operating a 9S 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

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 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 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 9S 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.



PRECISION

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



* Photo may include optional equipment.



PERFORMANCE

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



Mitsubishi S6S-DT

The six cylinders turbo-charged and charged air cooled, engine is built for power, reliability and economy. This engine meets EPA tier II and EU stage II emission regulation.

Reliability You Can Depend On

Mitsubishi S6S-DT engine is ideal solution for the toughest work environment. The engine is built from a cast iron, skirted block with main bearing support between each cylinder. This combination provides maximum strength, rigidity, and crankshaft support. Special liquid cooling results in uniform temperature distribution.

The compact size of the engine makes it easier to service than other engines. The low engine height allows easy access for maintenance due to a side-mounted, gear-driven camshaft.

Structure Strength

The 9S 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.



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.



*Photo may include optional equipment.



PROFITABILITY

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



HiMATE

Option

IT'S CONVENIENT, EASY AND VALUABLE

Hi-MATE Hyundai's newly developed remote management system, utilizes GPS-satellite technology to provide customers with the highest level of service and product support available. Hi-MATE enables users to remotely evaluate machine performance, access diagnostic information, and verify machine locations at the touch of a button.

WHAT IS BENEFITS



Increase Productivity

It helps you operate machines in efficient. You can check the difference between total engine hours and actual working hours. See how productive your machines are and plan any required cost saving solutions. Hi-MATE offers working information such as working / idling hours, fuel consumption and rate.



Convenient and Easy Monitoring

There is nothing much to do to monitor your machines. Just log on to the Hi-MATE website or mobile application. Hi-MATE allows you to watch your machines whenever and wherever you are.



Security

Protect your machines from theft or unauthorized usage with Hi-MATE. If the machine moves out of the Geo-fence boundary, you will get alerts.

Fuel Efficiency

9S Series excavators are engineered to be extremely fuel efficient. New innovations like 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 9S Series.

Extended Life Components

9S 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 pre-heating systems which extend service intervals, minimize operating costs and reduce machine downtime.

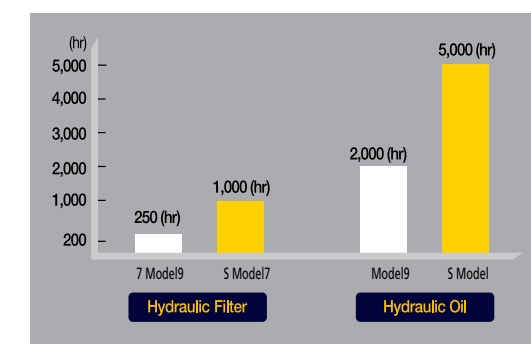


Photo may include optional equipment.

SPECIFICATIONS

ENGINE			
Maker / Model		Mitsubishi S6S-DT	
Type		Water cooled, 4 cycle Diesel, 6-cylinders in line, direct injection, turbocharged charger and air cooled	
Gross Power	SAE(J1995)	126 HP (94 kW) / 2,100 rpm	
	DIE(6271/1)	128 PS (94 kW) / 2,100 rpm	
Net Power	SAE(J1349)	116 HP (87 kW) / 2,100 rpm	
	DIE(6271/1)	118 PS (87 kW) / 2,100 rpm	
Max. torque		42.5 kgf.m (307 lbf.ft) / 1,500 rpm	
Bore X stroke		94 x 120mm (3.70" x 4.72")	
Piston displacement		4,996cc (305 in ³)	
Batteries		2 X 12V X 100 AH	
Starting motor		24V- 5.0kW	
Alternator		24V- 50Amp	

HYDRAULIC SYSTEM	
MAIN PUMP	
Type	Two variable displacement piston pumps
Rated flow	2 X 160L /min (42.3 US gpm / 35.2 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/cm ² (4,980 psi)
Travel	350 kgf/cm ² (4,980 psi)
Power Boost (Boom, Arm, Bucket)	380 kgf/cm ² (5,410 psi)
Swing Circuit	285 kgf/cm ² (4,050 psi)
Pilot Circuit	40 kgf/cm ² (570 psi)
Service Valve	Installed

HYDRAULIC CYLINDERS	
	Boom : 2-115 X 1,090 mm (4.5"X 42.9")
No. of Cylinder	Arm : 1-120 X 1,355 mm (4.7" X 53.3")
Bore X Stroke	Bucket : 1-110 X 995 mm (4.3" X 39.2")
	Blade : 2-110 X 320 mm (4.3" X 12.6")

DRIVES & BRAKES	
Drive Method	Fully hydrostatic type
Drive Motor	Axial piston maotor, in-shoe design
Reduction System	Planetary reduction gear
Max. Drawbar Pull	17,000 kgf (37,500 lbf)
Max. Travel Speed (High / Low)	5.5 km/hr(3.4mph) / 3.2 km/hr(2.0mph)
Gradeability	30°(58 %)
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	Two fixed displacement axial pistons motor
Swing Reduction	Planetary gear reduction
Swing Bearing Lubrication	Grease-bathed
Swing Brake	Multi wet disc
Swing Speed	11 rpm

COOLANT & LUBRICANT CAPACITY			
Refilling	liter	US gal	UK gal
Fuel tank	270	71.3	59.4
Engine coolant	17.5	4.6	3.8
Engine oil	16.5	4.4	3.6
Swing device-gear oil	5.0	1.3	1.1
Final drive(each)-gear oil	5.8	1.5	1.3
Hydraulic system(including tank)	270	71.3	59.4
Hydraulic tank	160	42.6	35.2

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	7
No. of Rail Guard on Each Side	1

OPERATING WEIGHT (APPROXIMATE)	
Operating weight, including 5,100mm (16' 9") boom, 2,600mm (8' 6") arm, SAE heaped 0.76m3 (0.99 yd3) bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.	

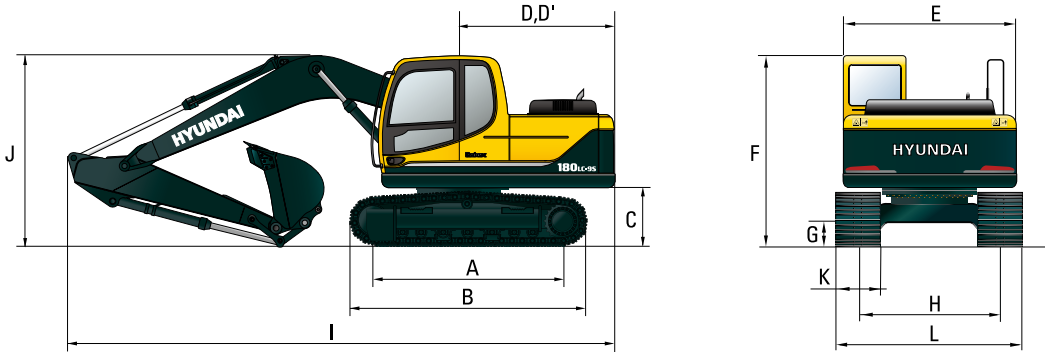
MAJOR COMPONENT WEIGHT	
Upperstructure	4,980 kg (10,980 lb)
5.1m (16' 9")mono boom (with arm cylinder)	1,250 kg (2,760 lb)

OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm(in)	kg(lb)	kgf/cm ² (psi)
	500 (20")	R180LC-9S	18,350(40,450) 0.51(7.25)
		R180LCD-9S	19,350(42,660) 0.53(7.54)
		R180NLC-9S	18,260(40,260) 0.50(7.11)
	600 (24")	R180LC-9S	18,600(41,010) 0.43(6.11)
		R180LCD-9S	19,600(43,210) 0.45(6.40)
		R180NLC-9S	18,510(40,810) 0.43(6.11)
Triple grouser	700 (28")	R180LC-9S	18,850(41,560) 0.37(5.26)
		R180LCD-9S	19,850(43,760) 0.39(5.55)
		R180NLC-9S	18,760(41,360) 0.37(5.26)
	800 (32")	R180LC-9S	19,100(42,110) 0.33(4.69)
		R180LCD-9S	20,100(44,310) 0.35(4.98)
		R180NLC-9S	19,010(41,910) 0.33(4.69)

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 0.75kg refrigerant consisting of a CO ² equivalent 1.07kg metric tonne.	
For more information, Please refer to the manual.	

DIMENSIONS & WORKING RANGE

R180LC-9S DIMENSIONS



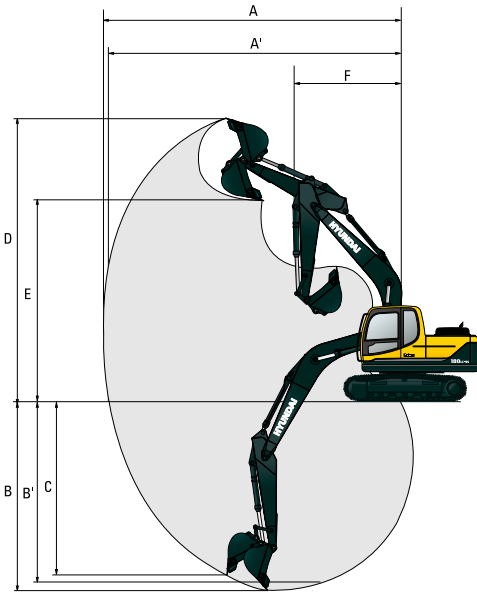
Unit : mm (ft · in)

A	Tumbler distance	3,360 (11' 0")
B	Overall length of crawler	4,150 (13' 7")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,530 (8' 4")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	2,250 (7' 5")

Boom length		5,100(16' 9")		
Arm length		2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
I	Overall length	8,660 (28'5")	8,650 (28' 5")	8,650 (28'5")
J	Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")
K	Track shoe width	500 (20")	600 (24")	700 (28")
L	Overall width	2,750 (9' 1")	2,850 (9' 5")	2,950 (9' 9")

R180LC-9S WORKING RANGE

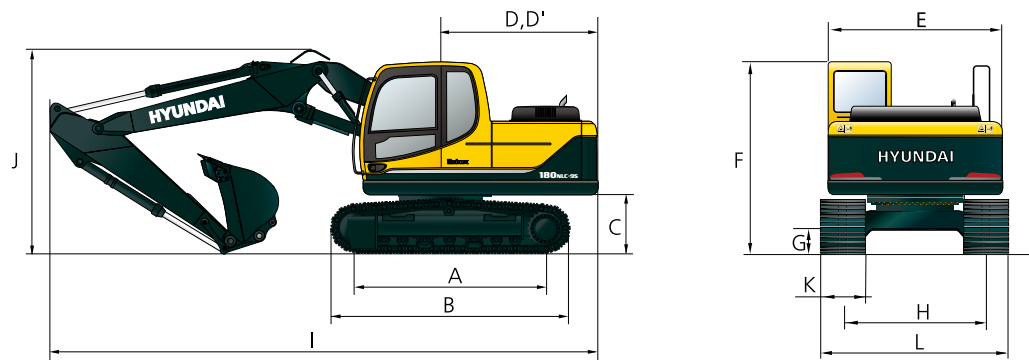
Unit : mm (ft · in)



Boom length		5,100(16' 9")		
Arm length		2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A	Max. digging reach	8,690 (28' 6")	9,020 (29' 7")	9,450 (31' 0")
A'	Max. digging reach on ground	8,530 (27' 12")	8,860 (29' 1")	9,300 (30' 6")
B	Max. digging depth	5,660 (18' 7")	6,060 (19' 11")	6,560 (21' 6")
B'	Max. digging depth (8' level)	5,430 (17' 10")	5,850 (19' 2")	6,370 (20' 11")
C	Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")	5,710 (18' 9")
D	Max. digging height	8,750 (28' 8")	8,840 (29' 0")	8,980 (29' 6")
E	Max. dumping height	6,110 (20' 1")	6,220 (20' 5")	6,390 (21' 0")
F	Min. swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

DIMENSIONS & WORKING RANGE

R180NLC-9S DIMENSIONS

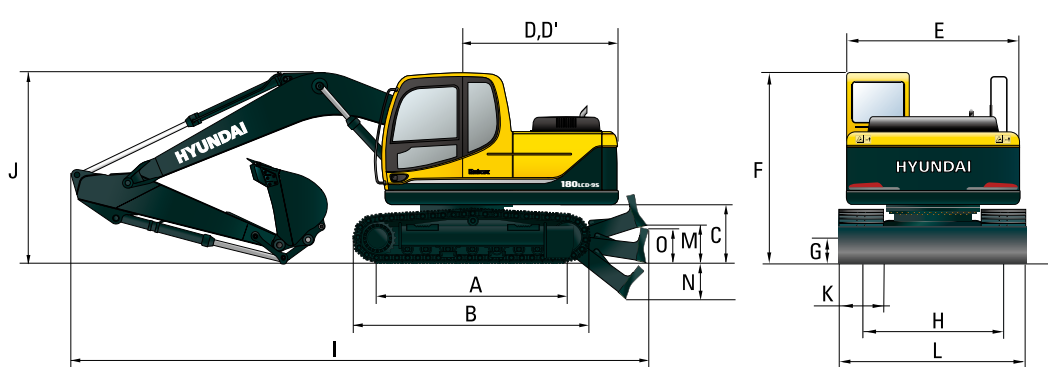


Unit : mm (ft · in)

A	Tumbler distance	3,360 (11' 0")
B	Overall length of crawler	4,150 (13' 7")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,530 (8' 4")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,990 (9' 10")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	2,000 (6' 7")

Boom length	5,100(16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
I Overall length	8,660 (28' 5")	8,650 (28' 5")	8,650 (28' 5")
J Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")
K Track shoe width	500 (20")	600 (24")	700 (28")
L Overall width	2,500 (8' 2")	2,600 (8' 6")	2,700 (8' 10")

R180LCD-9S DIMENSIONS



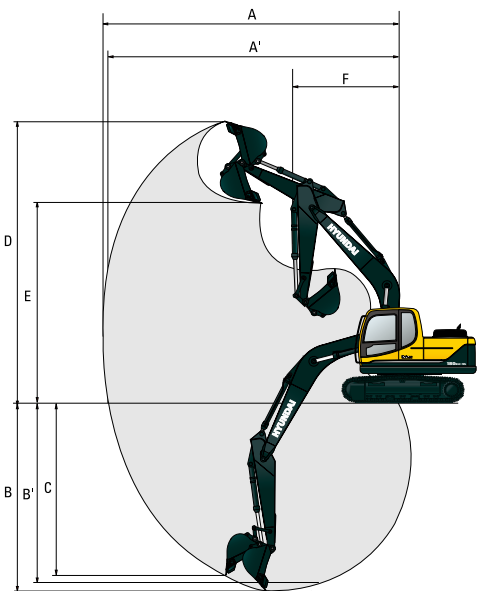
Unit : mm (ft · in)

A	Tumbler distance	3,360 (11' 0")
B	Overall length of crawler	4,150 (13' 7")
C	Ground clearance of counterweight	1,055 (3' 6")
D	Tail swing radius	2,530 (8' 4")
D'	Rear-end length	2,480 (8' 2")
E	Overall width of upperstructure	2,475 (8' 1")
F	Overall height of cab	2,980 (9' 9")
G	Min. ground clearance	460 (1' 6")
H	Track gauge	2,250 (7' 5")
M	Ground clearance of blade up	615 (2' 0")
N	Depth of blade down	675 (2' 3")
O	Height of blade	640 (2' 1")

Boom length		5,100(16' 9")			
Arm length		2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	
I	Overall length	9,110 (29'11")	9,100 (29' 10")	9,100 (29'10")	
J	Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")	
K Track shoe width		500 (20")	600 (24")	700 (28")	800 (32")
L	Overall width	2,750 (9' 1")	2,850 (9' 5")	2,950 (9' 9")	3,050 (10' 1")

R180NLC-9S WORKING RANGE

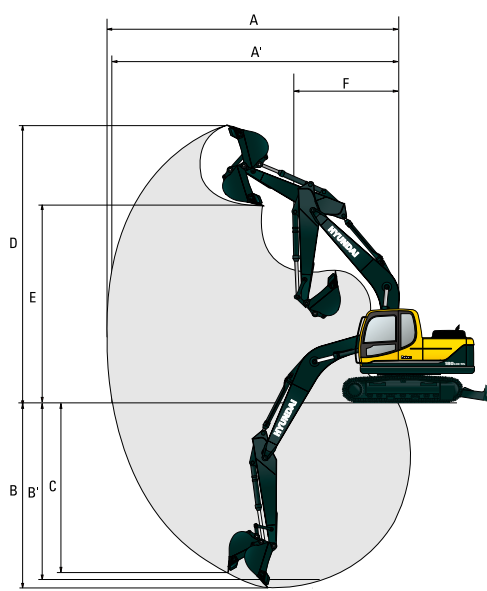
Unit : mm (ft · in)



Boom length	5,100(16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
A Max. digging reach	8,690 (28' 6")	9,020 (29' 7")	9,450 (31' 0")
A' Max. digging reach on ground	8,530 (27' 12")	8,860 (29' 1")	9,300 (30' 6")
B Max. digging depth	5,660 (18' 7")	6,060 (19' 11")	6,560 (21' 6")
B' Max. digging depth (8' level)	5,430 (17' 10")	5,850 (19' 2")	6,370 (20' 11")
C Max. vertical wall digging depth	5,120 (16' 10")	5,380 (17' 8")	5,710 (18' 9")
D Max. digging height	8,750 (28' 8")	8,840 (29' 0")	8,980 (29' 6")
E Max. dumping height	6,110 (20' 1")	6,220 (20' 5")	6,390 (21' 0")
F Min. swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

R180LCD-9S WORKING RANGE

Unit : mm (ft · in)



Boom length	5,100 (16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
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E Max. dumping height	6,110 (20' 1")	6,220 (20' 5")	6,390 (21' 0")
F Min. swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

R180LC-9S												
Boom : 5.10 m (16’ 9”) / Arm : 2.20 m (7’ 3”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser												
Lift-point height (m/ft)		Lift-point radius								At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach
												m (ft)
7.5 m (25 ft)	kg lb									*3,770 *8,270	*3,750 *8,270	5.60 (18.4)
6.0 m (20 ft)	kg lb									*3,660 *8,070	2,920 6,440	6.98 (22.9)
4.5 m (15 ft)	kg lb					*4,570 *10,080	*4,570 *10,080	*4,110 *9,060	3,690 8,140	*3,690 *8,140	2,370 5,220	7.76 (25.5)
3.0 m (10 ft)	kg lb			*9,100 *20,060	*9,100 *20,060	*5,790 *12,760	5,620 12,390	*4,600 *10,140	3,550 7,830	3,360 7,410	2,130 4,700	8.15 (26.7)
1.5 m (5 ft)	kg lb					*7,030 *15,500	5,250 11,570	*5,160 *11,380	3,390 7,470	3,280 7,230	2,060 4,540	8.20 (26.9)
Ground Line	kg lb			*7,120 *15,700	*7,120 *15,700	*7,680 *16,930	5,030 11,090	5,250 11,570	3,270 7,210	3,420 7,540	2,150 4,740	7.94 (26.0)
-1.5 m (-5ft)	kg lb	*7,040 *15,520	*7,040 *15,520	*11,150 *24,580	9,670 21,320	*7,590 *16,730	4,970 10,960	5,200 11,460	3,230 7,120	3,900 8,600	2,450 5,400	7.31 (24.0)
-3.0 m (-10ft)	kg lb	*11,230 *24,760	*11,230 *24,760	*9,630 *21,230	*9,630 *21,230	*6,670 *14,700	5,030 11,090			*3,750 *8,270	3,240 7,140	6.19 (20.3)
-4.5 m (-15ft)	kg lb			*6,270 *13,820	*6,270 *13,820							

 Rating over-front  Rating over-side or 360 degree

R180LC-9S												
Boom : 5.10 m (16’ 9”) / Arm : 3.10 m (11’ 1”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser												
Lift-point height (m/ft)		Lift-point 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)		Reach
												m (ft)
7.5 m (25 ft)	kg lb											*3,000 *6,610 (22.1)
6.0 m (20 ft)	kg lb							*2,870 *6,330	*2,870 *6,330			*3,020 *6,660 (25.9)
4.5 m (15 ft)	kg lb							*3,350 *7,390	*3,350 *7,390	*2,130 *4,700	*2,130 *4,700	*3,100 *6,830 (28.1)
3.0 m (10 ft)	kg lb					*4,710 *10,380	*4,710 *10,380	*3,930 *8,660	3,580 7,890	*3,090 *6,810	2,420 5,340	2,870 6,330 (29.2)
1.5 m (5 ft)	kg lb			*10,220 *22,530	*10,220 *22,530	*6,160 *13,580	5,330 11,750	*4,620 *10,190	3,380 7,450	3,730 8,220	2,330 5,140	2,790 6,150 (29.4)
Ground Line	kg lb			*8,670 *19,110	*8,670 *19,110	*7,210 *15,900	5,010 11,050	*5,180 *11,420	3,220 7,100	3,640 8,020	2,250 4,960	2,880 6,350 (28.6)
-1.5 m (-5 ft)	kg lb	*6,310 *13,910	*6,310 *13,910	*10,330 *22,770	9,460 20,860	*7,580 *16,710	4,850 10,690	5,090 11,220	3,120 6,880	*3,230 *7,120	2,210 4,870	3,190 7,030 (26.8)
-3.0 m (-10 ft)	kg lb	*8,950 *19,730	*8,950 *19,730	*10,900 *24,030	9,520 20,990	*7,200 *15,870	4,830 10,650	5,080 11,200	3,110 6,860			*3,630 *8,000 (23.7)
-4.5 m (-15 ft)	kg lb	*12,430 *27,400	*12,430 *27,400	*8,640 *19,050	*8,640 *19,050	*5,790 *12,760	4,950 10,910					*3,370 *7,430 (18.3)

I 1 | Lifting capacity are based on ISO 10567.
I 2 | Lifting capacity of HX Series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
I 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
I 4 | (*) indicates load limited by hydraulic capacity.

Boom : 5.10 m (16’ 9”) / Arm : 2.60 m (8’ 6”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser												
Lift-point height (m/ft)		Lift-point 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)		Reach
												m (ft)
7.5 m (25 ft)	kg lb											*3,380 *7,450 (20.0)
6.0 m (20 ft)	kg lb							*3,020 *6,660	*3,020 *6,660			*3,360 *7,410 (24.2)
4.5 m (15 ft)	kg lb							*3,770 *8,310	3,720 8,200			*3,410 *7,520 (26.6)
3.0 m (10 ft)	kg lb			*7,910 *17,440	*7,910 *17,440	*5,310 *11,710	*5,310 *11,710	*4,300 *9,480	3,560 7,850	*2,810 *6,190	2,420 5,340	3,130 6,900 (27.8)
1.5 m (5 ft)	kg lb			*8,120 *17,900	*8,120 *17,900	*6,650 *14,660	5,270 11,620	*4,920 *10,850	3,380 7,450	*3,650 *8,050	2,350 5,180	8.53 (28.0)
Ground Line	kg lb			*7,910 *17,440	*7,910 *17,440	*7,500 *16,530	5,010 11,050	5,220 11,510	3,240 7,140	*3,470 *7,650	2,280 5,030	3,170 6,990 (27.2)
-1.5 m (-5 ft)	kg lb	*6,710 *14,790	*6,710 *14,790	*10,690 *23,570	9,550 21,050	*7,620 *16,800	4,900 10,800	5,140 11,330	3,170 6,990			7.69 (25.2)
-3.0 m (-10 ft)	kg lb	*9,990 *22,020	*9,990 *22,020	*10,280 *22,020	9,680 21,340	*6,960 *15,340	4,930 10,870	*4,870 *10,740	3,200 7,050			*3,750 *8,270 (21.8)
-4.5 m (-15 ft)	kg lb			*7,470 *16,470	*7,470 *16,470	*4,960 *10,930	*4,960 *10,930					

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LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

R180NLC-9S													
Boom : 5.10 m (16' 9") / Arm : 2.20 m (7' 3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24") triple grouser													
Lift-point height (m/ft)		Lift-point radius								At max. reach			
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		Capacity		Reach	
												m (ft)	
7.5 m (25 ft)	kg lb									*3,750 *8,270	*3,750 *8,270	5.60 (18.4)	
6.0 m (20 ft)	kg lb									*3,660 *8,070	2,550 5,620	6.98 (22.9)	
4.5 m (15 ft)	kg lb					*4,570 *10,080	*4,570 *10,080	*4,110 *9,060	3,230 7,120	3,680 8,110	2,060 4,540	7.76 (25.5)	
3.0 m (10 ft)	kg lb			*9,100 *20,060	*9,100 *20,060	*5,790 *12,760	4,880 10,760	*4,600 *10,140	3,100 6,830	3,340 7,360	1,830 4,030	8.15 (26.7)	
1.5 m (5 ft)	kg lb					*7,030 *15,500	4,530 9,990	*5,160 *11,380	2,940 6,480	3,260 7,190	1,770 3,900	8.20 (26.9)	
Ground Line	kg lb			*7,120 *15,700	*7,120 *15,700	*7,680 *16,930	4,320 9,520	5,220 11,510	2,820 6,220	3,400 7,500	1,840 4,060	7.94 (26.0)	
-1.5 m (-5ft)	kg lb	*7,040 *15,520	*7,040 *15,520	*11,150 *24,580	8,100 17,860	*7,590 *16,730	4,250 9,370	5,160 11,380	2,780 6,130	3,870 8,530	2,110 4,650	7.31 (24.0)	
-3.0 m (-10ft)	kg lb	*11,230 *24,760	*11,230 *24,760	*9,630 *21,230	8,250 18,190	*6,670 *14,700	4,310 9,500			*3,750 *8,270	2,800 6,170	6.19 (20.3)	
-4.5 m (-15ft)	kg lb			*6,270 *13,820	*6,270 *13,820								

 Rating over-front  Rating over-side or 360 degree

R180NLC-9S													
Boom : 5.10 m (16' 9") / Arm : 3.10 m (11' 1") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24") triple grouser													
Lift-point height (m/ft)		Lift-point 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)		Capacity	
													
7.5 m (25 ft)	kg lb											*3,000 *6,610	2,790 6,150 (22.1)
6.0 m (20 ft)	kg lb							*2,870 *6,330	*2,870 *6,330			*3,020 *6,660	2,050 4,520 (25.9)
4.5 m (15 ft)	kg lb							*3,350 *7,390	3,280 7,230	*2,130 *4,700	*2,130 *4,700	*3,100 *6,830	1,690 3,730 (28.1)
3.0 m (10 ft)	kg lb					*4,710 *10,380	*4,710 *10,380	*3,930 *8,660	3,120 6,880	*3,090 *6,810	2,090 4,610	2,850 6,280	1,520 3,350 (29.2)
1.5 m (5 ft)	kg lb			*10,220 *22,530	8,620 19,000	*6,160 *13,580	4,600 10,140	*4,620 *10,190	2,930 6,460	3,700 8,160	2,000 4,410	2,770 6,110	1,450 3,200 (29.4)
Ground Line	kg lb			*8,670 *19,110	8,030 17,700	*7,210 *15,900	4,290 9,460	5,160 11,380	2,760 6,080	3,610 7,960	1,920 4,230	2,860 6,310	1,500 3,310 (28.6)
-1.5 m (-5 ft)	kg lb	*6,310 *13,910	*6,310 *13,910	*10,330 *22,770	7,890 17,390	*7,580 *16,710	4,140 9,130	5,060 11,160	2,670 5,890	*3,230 *7,120	1,880 4,140	3,170 6,990	1,670 3,680 (26.8)
-3.0 m (-10 ft)	kg lb	*8,950 *19,730	*8,950 *19,730	*10,900 *24,030	7,950 17,530	*7,200 *15,870	4,120 9,080	5,040 11,110	2,660 5,860			*3,630 *8,000	2,080 4,590 (23.7)
-4.5 m (-15 ft)	kg lb	*12,430 *27,400	*12,430 *27,400	*8,640 *19,050	8,170 18,010	*5,790 *12,760	4,240 9,350					*3,370 *7,430	3,230 7,120 (18.3)

I 1 | Lifting capacity are based on ISO 10567.
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 I 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
 I 4 | (*) indicates load limited by hydraulic capacity.

Boom : 5.10 m (16' 9") / Arm : 2.60 m (8' 6") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24") triple grouser													
Lift-point height (m/ft)		Lift-point 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)		Capacity	
												m (ft)	
7.5 m (25 ft)	kg lb											*3,380 *7,450	3,290 7,250 (20.0)
6.0 m (20 ft)	kg lb							*3,020 *6,660	*3,020 *6,660			*3,360 *7,410	2,320 5,110 (24.2)
4.5 m (15 ft)	kg lb							*3,770 *8,310	3,250 7,170			*3,410 *7,520	1,890 4,170 (26.6)
3.0 m (10 ft)	kg lb			*7,910 *17,440	*7,910 *17,440	*5,310 *11,710	4,930 10,870	*4,300 *9,480	3,100 6,830	*2,810 *6,190	2,090 4,610	3,110 6,860	1,690 3,730 (27.8)
1.5 m (5 ft)	kg lb			*8,120 *17,900	*8,120 *17,900	*6,650 *14,660	4,550 10,030	*4,920 *10,850	2,930 6,460	*3,650 *8,050	2,020 4,450	3,030 6,680	1,620 3,570 (28.0)
Ground Line	kg lb			*7,910 *17,440	*7,910 *17,440	*7,500 *16,530	4,290 9,460	5,180 11,420	2,790 6,150	*3,470 *7,650	1,960 4,320	3,150 6,940	1,680 3,700 (27.2)
-1.5 m (-5ft)	kg lb	*6,710 *14,790	*6,710 *14,790	*10,690 *23,570	7,980 17,590	*7,620 *16,800	4,190 9,240	5,110 11,270	2,720 6,000			3,540 7,800	1,900 4,190 (25.2)
-3.0 m (-10ft)	kg lb	*9,990 *22,020	*9,990 *22,020	*10,280 *22,660	8,100 17,860	*6,960 *15,340	4,210 9,280	*4,870 *10,740	2,750 6,060			*3,750 *8,270	2,440 5,380 (21.8)
-4.5 m (-15ft)	kg lb			*7,470 *16,470	*7,470 *16,470	*4,960 *10,930	4,390 9,680						

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LIFTING CAPACITY

 Rating over-front  Rating over-side or 360 degree

R180LCD-9S													
Boom : 5.10 m (16’ 9”) / Arm : 2.20 m (7’ 3”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser													
Lift-point height (m/ft)		Lift-point radius								At max. reach			
		1.5 m (5ft)		3.0 m (10ft)		4.5 m (15ft)		6.0 m (20ft)		Capacity		Reach	
												m (ft)	
7.5 m (25 ft)	kg lb									*3,750 *8,270	*3,750 *8,270	5.60 (18.4)	
6.0 m (20 ft)	kg lb									*3,660 *8,070	3,070 6,770	6.98 (22.9)	
4.5 m (15 ft)	kg lb					*4,570 *10,080	*4,570 *10,080	*4,110 *9,060	3,880 8,550	*3,690 *8,140	2,510 5,530	7.76 (25.5)	
3.0 m (10 ft)	kg lb			*9,100 *20,060	*9,100 *20,060	*5,790 *12,760	*5,790 *12,760	*4,600 *10,140	3,740 8,250	*3,760 *8,290	2,260 4,980	8.15 (26.7)	
1.5 m (5 ft)	kg lb					*7,030 *15,500	5,530 12,190	*5,160 *11,380	3,580 7,890	3,740 8,250	2,190 4,830	8.20 (26.9)	
Ground Line	kg lb			*7,120 *15,700	*7,120 *15,700	*7,680 *16,930	5,310 11,710	*5,520 *12,170	3,460 7,630	3,910 8,620	2,280 5,030	7.94 (26.0)	
-1.5 m (-5ft)	kg lb	*7,040 *15,520	*7,040 *15,520	*11,150 *24,580	10,180 22,440	*7,590 *16,730	5,240 11,550	*5,450 *12,020	3,420 7,540	*3,960 *8,730	2,600 5,730	7.31 (24.0)	
-3.0 m (-10ft)	kg lb	*11,230 *24,760	*11,230 *24,760	*9,630 *21,230	*9,630 *21,230	*6,670 *14,700	5,300 11,680			*3,750 *8,270	3,420 7,540	6.19 (20.3)	
-4.5 m (-15ft)	kg lb			*6,270 *13,820	*6,270 *13,820								

 Rating over-front  Rating over-side or 360 degree

R180LCD-9S													
Boom : 5.10 m (16’ 9”) / Arm : 3.10 m (11’ 1”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser													
Lift-point height (m/ft)		Lift-point 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)		Capacity	
													
7.5 m (25 ft)	kg lb											*3,000 *6,610	*3,000 *6,610
6.0 m (20 ft)	kg lb									*2,870 *6,330	*2,870 *6,330	*3,020 *6,660	2,490 5,490
4.5 m (15 ft)	kg lb									*3,350 *7,390	*3,350 *7,390	*2,130 *4,700	*2,130 *4,700
3.0 m (10 ft)	kg lb					*4,710 *10,380	*4,710 *10,380	*3,930 *8,660	3,770 8,310	*3,090 *6,810	2,570 5,670	*3,200 *7,050	1,890 4,170
1.5 m (5 ft)	kg lb			*10,220 *22,530	*10,220 *22,530	*6,160 *13,580	5,600 12,350	*4,620 *10,190	3,570 7,870	*3,850 *8,490	2,470 5,450	3,200 7,050	1,830 4,030
Ground Line	kg lb			*8,670 *19,110	*8,670 *19,110	*7,210 *15,900	5,280 11,640	*5,180 *11,420	3,410 7,520	*4,100 *9,040	2,390 5,270	3,310 7,300	1,880 4,140
-1.5 m (-5 ft)	kg lb	*6,310 *13,910	*6,310 *13,910	*10,330 *22,770	9,960 21,960	*7,580 *16,710	5,120 11,290	*5,420 *11,950	3,310 7,300	*3,230 *7,120	2,350 5,180	*3,570 *7,870	2,090 4,610
-3.0 m (-10 ft)	kg lb	*8,950 *19,730	*8,950 *19,730	*10,900 *24,030	10,020 22,090	*7,200 *15,870	5,110 11,270	*5,110 *11,270	3,300 7,280			*3,630 *8,000	2,580 5,690
-4.5 m (-15 ft)	kg lb	*12,430 *27,400	*12,430 *27,400	*8,640 *19,050	*8,640 *19,050	*5,790 *12,760	5,230 11,530					*3,370 *7,430	*3,370 *7,430

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 | 3 | The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
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Boom : 5.10 m (16’ 9”) / Arm : 2.60 m (8’ 6”) / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24”) triple grouser													
Lift-point height (m/ft)		Lift-point 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)		Capacity	
												m (ft)	
7.5 m (25 ft)	kg lb											*3,380 *7,450	*3,380 *7,450
6.0 m (20 ft)	kg lb							*3,020 *6,660	*3,020 *6,660			*3,360 *7,410	2,800 6,170
4.5 m (15 ft)	kg lb							*3,770 *8,310	*3,770 *8,310			*3,410 *7,520	2,320 5,110
3.0 m (10 ft)	kg lb			*7,910 *17,440	*7,910 *17,440	*5,310 *11,710	*5,310 *11,710	*4,300 *9,480	3,750 8,270	*2,810 *6,190	2,570 5,670	*3,500 *7,720	2,090 4,610
1.5 m (5 ft)	kg lb			*8,120 *17,900	*8,120 *17,900	*6,650 *14,660	5,550 12,240	*4,920 *10,850	3,570 7,870	*3,650 *8,050	2,490 5,490	3,490 7,690	2,020 4,450
Ground Line	kg lb			*7,910 *17,440	*7,910 *17,440	*7,500 *16,530	5,280 11,640	*5,380 *11,860	3,430 7,560	*3,470 *7,650	2,430 5,360	3,630 8,000	2,100 4,630
-1.5 m (-5 ft)	kg lb	*6,710 *14,790	*6,710 *14,790	*10,690 *23,570	11,060 22,180	*7,620 *16,800	5,180 11,420	*5,460 *12,040	3,360 7,410			*3,810 *8,400	2,360 5,200
-3.0 m (-10 ft)	kg lb	*9,990 *22,020	*9,990 *22,020	*10,280 *22,660	10,180 22,440	*6,960 *15,340	5,200 11,460	*4,870 *10,740	3,390 7,470			*3,750 *8,270	3,000 6,610
-4.5 m (-15 ft)	kg lb			*7,470 *16,470	*7,470 *16,470	*4,960 *10,930	*4,960 *10,930						

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BUCKET SELECTION GUIDE & DIGGING FORCE

BUCKETS



SAE heaped
m³ (yd³)

0.39(0.51)

0.50(0.65)

0.64(0.84)

0.76(0.99)

0.89(1.16)

1.05(1.37)

 0.69(0.90)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation mm (ft.in)		
					5,100 (16' 9") Mono Boom		
SAE heaped	CECE heaped	Without side cutters	With side cutters		2,200 (7' 3") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm
0.39(0.51)	0.34(0.44)	620(24.4)	740(29.1)	410(900)	●	●	●
0.50(0.65)	0.44(0.58)	760(29.9)	880(34.6)	470(1,040)	●	●	●
0.64(0.84)	0.55(0.72)	920(36.2)	1,040(40.9)	510(1,120)	●	●	■
0.76(0.99)	0.65(0.85)	1,060(41.7)	1,180(46.5)	570(1,260)	●	■	▲
0.89(1.16)	0.77(1.01)	1,220(48.0)	1,340(52.8)	610(1,340)	■	▲	-
1.05(1.37)	0.90(1.18)	1,400(55.1)	1,520(59.8)	680(1,500)	▲	-	-
 0.69(0.90)	0.62(0.81)	990(39.0)	-	700(1,540)	●	■	▲

 Heavy duty bucket

● : Applicable for materials with density of 2,000 kgf/m³ (3,370 lbf/yd³) or less

■ : Applicable for materials with density of 1,600 kgf/m³ (2,700 lbf/yd³) or less

▲ : Applicable for materials with density of 1,100 kgf/m³ (1,850 lbf/yd³) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design. 5.65 m, 5.68 m & 8.2 m Booms and 2.0 m, 2.4 m, 2.92 m, 3.9 m & 6.3 m Arms are available.

DIGGING FORCE						
Boom	Length	mm (ft.in)	5,100 (16' 9")			Remark
	Weight	kg (lb)	1,250 (2,760)			
Arm	Length	mm (ft.in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	Remark
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[] : Power Boost
		kgf	11,000 [11,940]	11,000 [11,940]	11,000 [11,940]	
		lbf	24,250 [26,330]	24,250 [26,330]	24,250 [26,330]	
	ISO	kN	123.6 [134.2]	123.6 [134.2]	123.6 [134.2]	
		kgf	12,600 [13,680]	12,600 [13,680]	12,600 [13,680]	
		lbf	27,780 [30,160]	27,780 [30,160]	27,780 [30,160]	
Arm crowd force	SAE	kN	87.2 [94.7]	77.3 [83.9]	69.0 [74.9]	
		kgf	8,890 [9,650]	7,880 [8,560]	7,030 [7,630]	
		lbf	19,600 [21,280]	17,370 [18,860]	15,500 [16,830]	
	ISO	kN	91.0 [98.8]	80.3 [87.2]	71.4 [77.5]	
		kgf	9,280 [10,080]	8,190 [8,890]	7,280 [7,900]	
		lbf	20,460 [22,210]	18,060 [19,600]	16,050 [17,430]	

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

STANDARD / OPTION

STANDARD EQUIPMENT	OPTIONAL EQUIPMENT
ISO Standard cabin	Fuel filler pump (35 L/min)
All-weather steel cab with 360° visibility	Beacon lamp
Safety glass windows	Single-acting piping kit (breaker, etc.)
Rise-up type windshield wiper	Double-acting piping kit (clamshell, etc.)
Sliding fold-in front window	Quick coupler
Sliding side window(LH)	Travel alarm
Lockable door	Booms
Hot & cool box	5.1 m, 16' 9"
Storage compartment & Ashtray	Arms
Radio & USB player	2.2 m, 7' 3"
Cabin roof-steel cover	2.6 m, 8' 6"
12 volt power outlet (24V DC to 12V DC converter)	3.1 m, 10' 2"
Computer aided power optimization (New CAPO) system	Cabin FOPS/FOG (ISO/DIS 10262 Level II)
3-power mode, 2-work mode, user mode	FOPS (Falling Object Protective Structure)
Auto deceleration & one-touch deceleration system	FOG (Falling Object Guard)
Auto warm-up system	Cabin lights
Auto overheat prevention system	Cabin front window rain guard
Automatic climate control	Sun visor
Air conditioner & heater	Track shoes
Defroster	Triple grousers shoe (500mm, 20")
Self-diagnostics system	Triple grousers shoe (700mm, 28")
Starting Aid (air grid heater) for cold weather	Triple grousers shoe (800 mm, 32")
Centralized monitoring	Lower frame under cover (Additional)
LCD display	Tool kit
Engine speed or Trip meter / Accel	Operator suit
Clock	Rearview camera
Gauges	Seat
Fuel level gauge	Mechanical suspension seat with heater
Engine coolant temperature gauge	Hi-mate (Remote Management System)
Hyd. oil temperature gauge	Fuel warmer
Warnings	Air compressor
Overload	Cabin-winenet guard / Finenet guard
Communication error	Blade
Low battery	640mm (2' 1") x 2,750mm (9' 1")
Air cleaner clogging	640mm (2' 1") x 2,850mm (9' 5")
Indicators	640mm (2' 1") x 3,050mm (10' 1")
Max power	
Low speed/High speed	
Fuel warmer	
Auto idle	
Door and cab locks, one key	
Two outside rearview mirrors	
Fully adjustable suspension seat with seat belt	
Pilot-operated slidable joystick	
Four front working lights (2 boom mounted, 2 front frame mounted)	
Electric horn	
Batteries (2 x 12V x 100 AH)	
Battery master switch	
Removable clean-out dust net for cooler	
Automatic swing brake	
Removable reservoir tank	
Fuel pre-filter	
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)	

* 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.