

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 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)
Viscous fan clutch

OPTIONAL EQUIPMENT

Fuel filler pump (35 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
5.1m, 16' 9"
5.1m, 16' 9"
Arms
2.2m, 7' 3"
2.6m, 8' 6"
3.1m, 10' 2"
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 roof-steel cover
Cabin lights
Cabin front window rain guard
Track shoes
Triple grouzers shoe (500mm, 20")
Triple grouzers shoe (700mm, 28")
Triple grouzers shoe (800mm, 32")
R180LCD-9A Blade : 640mm(2' 1") x 2,750mm(9' 1")
640mm(2' 1") x 2,850mm(9' 5")
640mm(2' 1") x 3,050mm(10' 1")
Lower frame under cover(Additional)
Tool kit
Rearview camera
Seat
Adjustable air suspension seat with heater
Pattern change valve (2 patterns)
Hi-mate (Remote Management System)
Rear work lamp

* 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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Robex

I80LC-9A

With Tier 4 Interim Engine installed

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



*Photo may include optional equipment.

HYUNDAI

HEAVY INDUSTRIES CO.,LTD.

PRIDE AT WORK

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

Take pride in your work with Hyundai!



*Photo may include optional equipment.

Robex 180LC-9A

Machine Walk-Around

Engine Technology

Proven, reliable, fuel efficient, low emission and low noise
Perkins 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 - less expensive than (polycarbonate) and won't scratch or fade
Closeable sunshade for operator convenience / Reduced front window seam for improved operator view

Improved Cab Construction

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

Improved Suspension Seat / Console Assembly

Ergonomic joysticks with auxiliary control buttons for attachment use. Now with new sleek styling
Heated suspension (standard) or optional air ride suspension with heat
New joystick consoles - now adjustable in height by 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. 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 (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

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.

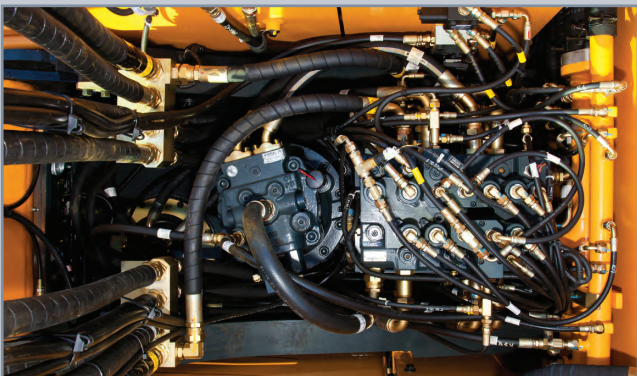
Improved spool valves in the control valve are engineered to provide more precise flow to each function with less effort.

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.

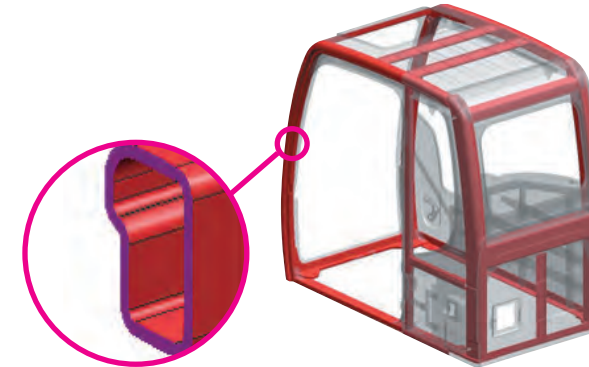


*Photo may include optional equipment.



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.



Perkins 1204E Engine

Tier 4 interim, four cylinder, 4 cycle, turbo-charged, charge air cooled Perkins 1204E engine provides maximum power, reliability, optimum fuel economy, and reduced emissions. Electronically controlled fuel injection and diagnostic capabilities add to the engines efficiency and serviceability.

Better Performance

Using DPF (Diesel Particulate Filter) enables uncompromised, fuel economy and reduced cooling pack size, because the engine calibration does not solely need to be focussed on low particulates. By using mainly passive regeneration and low back pressure aftertreatment designs fuel economy is not negatively impacted.

Integrated aftertreatment without operating impact

The 1204E engines have fully transparent regeneration strategies and service free DPF, completely seamless to the operator.

One solution for all regions

Area mandating the use of DPF are increasing and european air quality directive will drive more non-attainment zones. Because our products use DPFs, our customers don't have to offer a retrofit DPF option to allow machines to operate in these territories.

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, and the Radio / USB player.



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.



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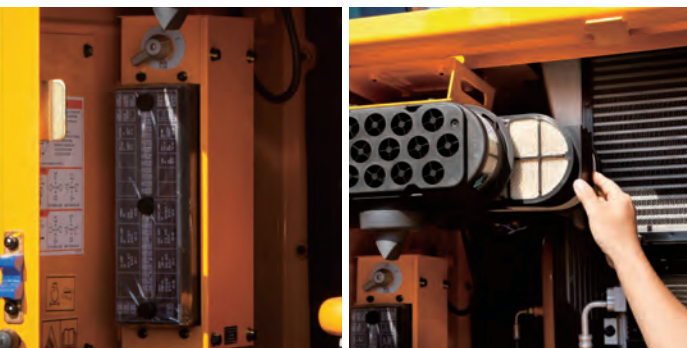
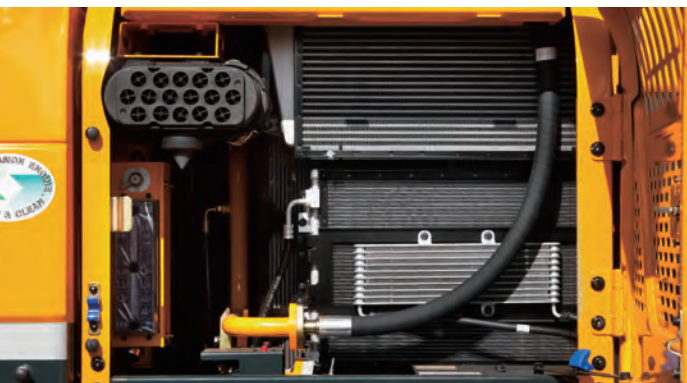
Fuel Efficiency

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

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



Long-Life Components

9A 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			Perkins 1204E
Type			Water cooled, 4 cycle Diesel, 4-cylinders in line, direct injection, turbocharged charger and air cooled
Rated flywheel horse power	SAE	J1995 (gross) J1349 (net)	137 HP (102.2 kW)/ 2,050 rpm 128 HP (96 kW)/ 2,050 rpm
	DIN	6271/1 (gross) 6271/1 (net)	139 PS (102.2 kW)/ 2,050 rpm 130 PS (96 kW)/ 2,050 rpm
Max. torque			57.1 kgf-m(413 lbf-ft)/ 1,500 rpm
Bore X stroke			105 x 127 mm (4.13" x 5.0")
Piston			4,400cc (268.5 in³)
Batteries			2 X 12V X 100AH
Starting motor			24V- 4.5kW
Alternator			24V- 85Amp

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement piston pumps
Rated flow	2 X 164L /min (43.3 US gpm / 36.1 UK gpm)
Sub-pump for pilot circuit	Gear pump
Cross-sensing and fuel saving pump system.	

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

RELIEF VALVE SETTING	
Implement circuits	350 kgf/cm² (4,980 psi)
Travel	350 kgf/cm² (4,980 psi)
Power boost (boom, arm, bucket)	380 kgf/cm² (5,410 psi)
Swing circuit	285 kgf/cm² (4,050 psi)
Pilot circuit	40 kgf/cm² (570 psi)
Service valve	Installed

HYDRAULIC CYLINDERS	
No. of cylinder bore X stroke	Boom: 2-115 X 1,090 mm (4.5" X 42.9")
	Arm: 1-120 X 1,355 mm (4.7" X 53.3")
	Bucket: 1-110 X 995 mm (4.3" X 39.2")
	Blade: 2-110 X 320 mm (4.3" X 12.6")
	2PCS 1st: 2-115 X 960 mm (4.5" X 37.8") 2nd: 1-160 X 650 mm (6.3" X 25.6")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	17,000 kgf (37,500 lbf)
Max. travel speed(high) / (low)	5 km/hr (3.1 mph) / 3.2 km/hr (2.0 mph)
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
Lights	Two lights mounted on the boom Two on the upper frame

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	11.2 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter	US gal	UK gal
Fuel tank	270	71.3	59.4
Engine coolant	15.5	4.1	3.4
Engine oil	10.5	2.8	2.3
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	42.3	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)
(Hydraulic adjustable boom(with arm cylinder))	1,780 kg (3,920 lb)

OPERATING WEIGHT				
Shoes			Operating weight	Ground pressure
Type	Width mm(in)		kg(lb)	kgf/cm²(psi)
Triple grouser	500 (20")	R180LC-9A	18,350(40,450)	0.51(7.25)
		R180LCD-9A	19,350(42,660)	0.53(7.54)
		R180NLC-9A	18,260(40,260)	0.50(7.11)
	600 (24")	R180LC-9A	18,600(41,010)	0.43(6.11)
		R180LCD-9A	19,600(43,210)	0.45(6.40)
		R180NLC-9A	18,510(40,810)	0.43(6.11)
	700 (28")	R180LC-9A	18,850(41,560)	0.37(5.26)
		R180LCD-9A	19,850(43,760)	0.39(5.55)
		R180NLC-9	18,760(41,360)	0.37(5.26)
	800 (32")	R180LC-9A	19,100(42,110)	0.33(4.69)
		R180LCD-9A	20,100(44,310)	0.35(4.98)
		R180NLC-9A	19,010(41,910)	0.33(4.69)

BUCKETS

All buckets are welded with high-strength steel.

							
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)				
SAE heaped	CECE heaped	Without sidecutters	With sidecutters		5,100 (16' 9") Mono Boom			5,100 (16' 9") Hydraulic Adjustable Boom	
					2,200 (7' 3") Arm	2,600 (8' 6") Arm	3,100 (10' 2") Arm	2,200 (7' 3") Arm	2,600 (8' 6") 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 kg /m³ (3,370 lb/ yd³) or less
- : Applicable for materials with density of 1,600 kg /m³ (2,700 lb/ yd³) or less
- ▲ : Applicable for materials with density of 1,100 kg /m³ (1,850 lb/ yd³) or less

ATTACHMENT

Booms and arms are welded, a low-stress, full-box section design. 5.1m(16’ 9”) boom, 5.1m(16’ 9”) hydraulic adjustable boom and 2.20m(7’ 3”), 2.60m(8’ 6”), 3.10m(10’ 2”) arms are available.

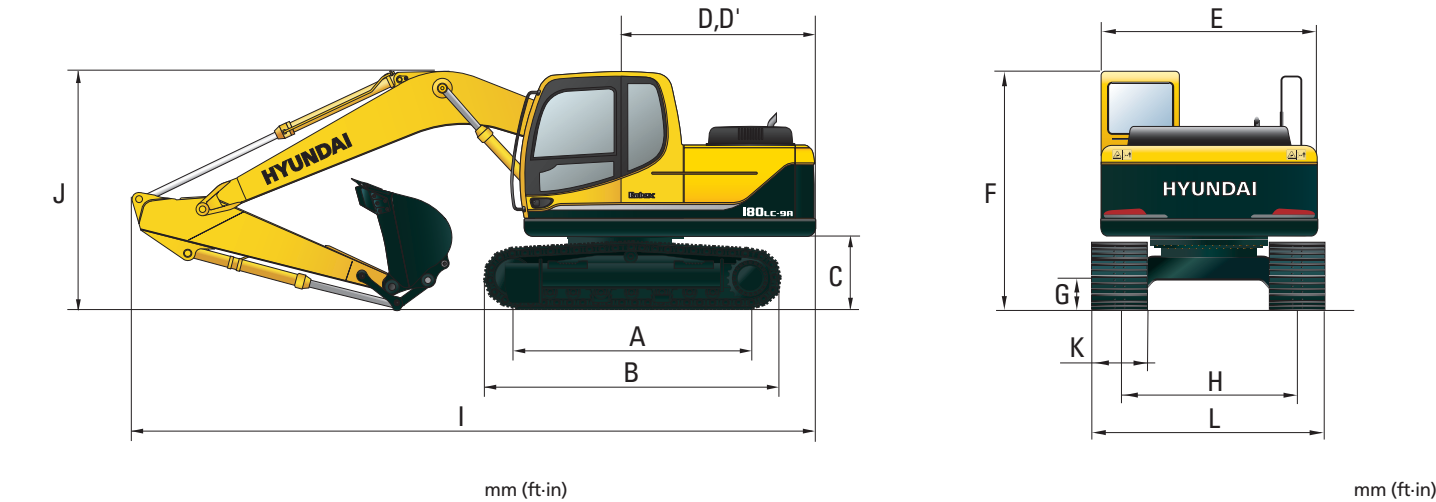
DIGGING FORCE

Boom	Length	mm (ft.in)	5,100 (16' 9")			Remarks
	Weight	kg (lb)	1,250 (2,760)			
Arm	Length	mm (ft.in)	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")	
	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

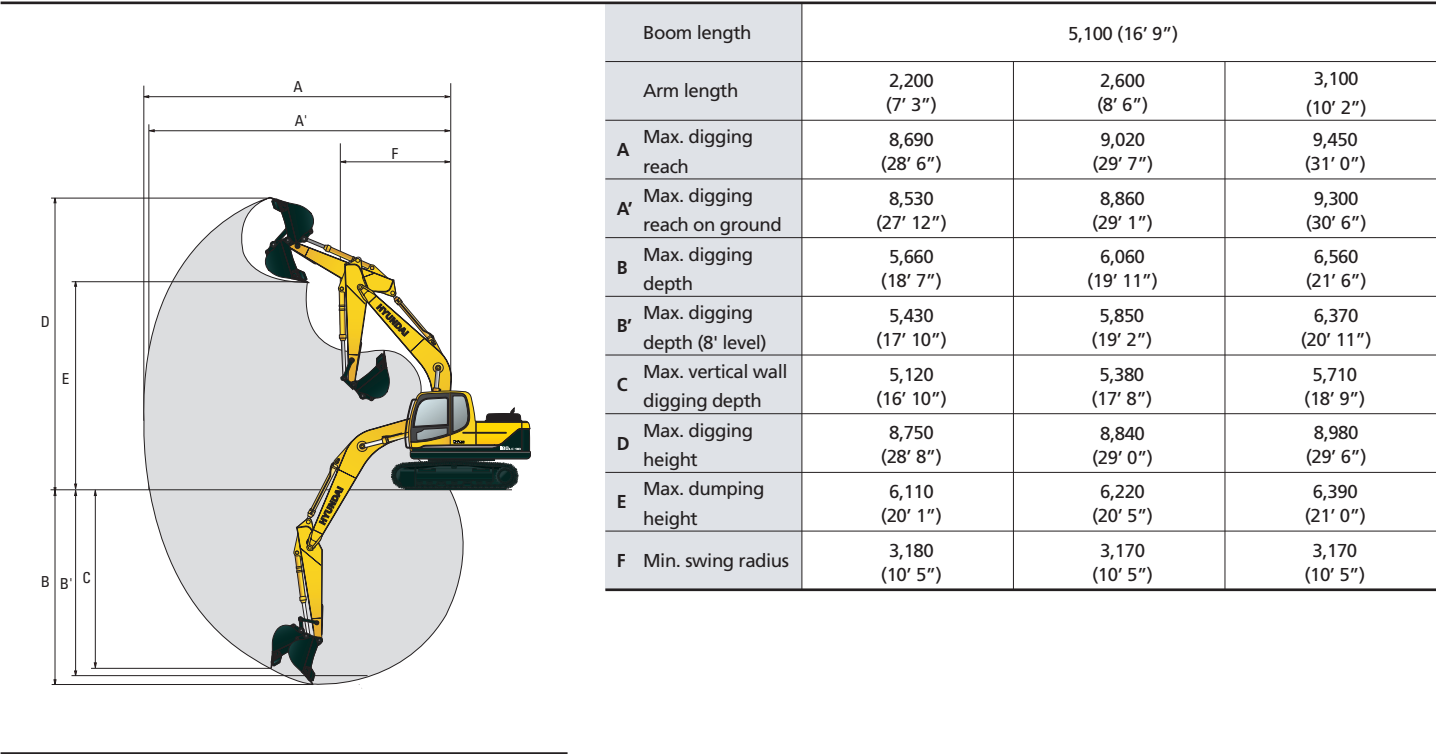
Dimensions & Working Range

R180LC-9A DIMENSIONS



mm (ft-in)		mm (ft-in)			
A	Tumbler distance	3,360 (11' 0")		Boom length	
B	Overall length of crawler	4,150 (13' 7")		5,100(16' 9")	
C	Ground clearance of counterweight	1,055 (3' 6")		Arm length	
D	Tail swing radius	2,530 (8' 4")		2,200 (7' 3")	2,600 (8' 6")
D'	Rear-end length	2,480 (8' 2")		3,100 (10' 2")	
E	Overall width of upperstructure	2,475 (8' 1")		I	Overall length
F	Overall height of cab	2,980 (9' 9")		8,660 (28' 5")	8,650 (28' 5")
G	Min. ground clearance	460 (1' 6")		8,650 (28' 5")	
H	Track gauge	2,250 (7' 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")	

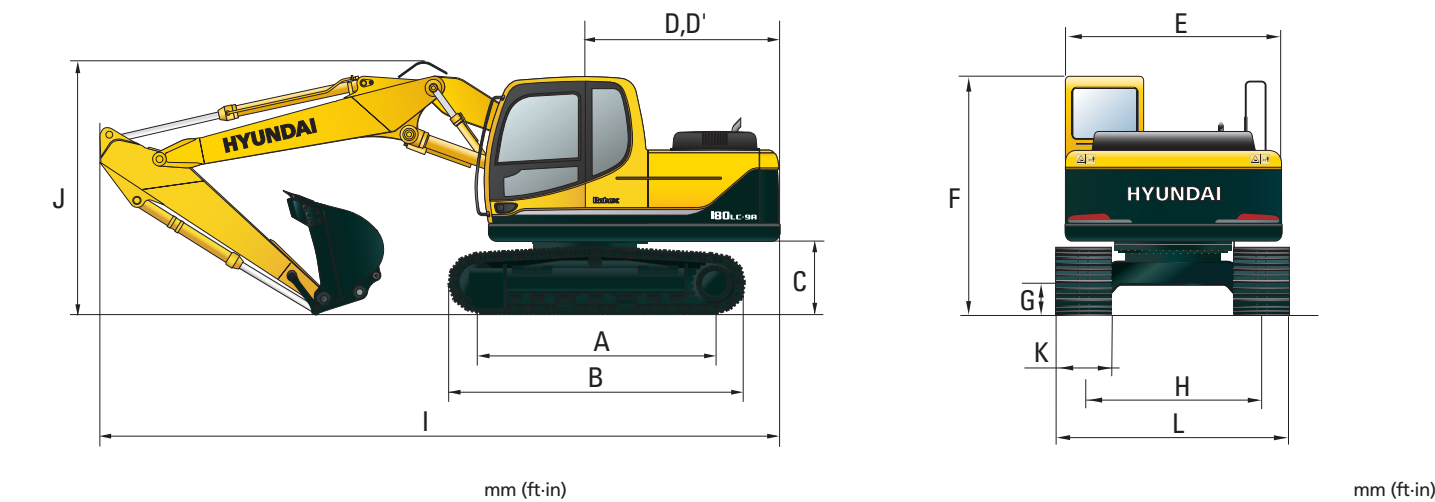
R180LC-9A WORKING RANGE



mm (ft-in)		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")	
A'	Max. digging reach on ground	8,530 (27' 12")		8,860 (29' 1")	
B	Max. digging depth	5,660 (18' 7")		6,060 (19' 11")	
B'	Max. digging depth (8' level)	5,430 (17' 10")		5,850 (19' 2")	
C	Max. vertical wall digging depth	5,120 (16' 10")		5,380 (17' 8")	
D	Max. digging height	8,750 (28' 8")		8,840 (29' 0")	
E	Max. dumping height	6,110 (20' 1")		6,220 (20' 5")	
F	Min. swing radius	3,180 (10' 5")		3,170 (10' 5")	

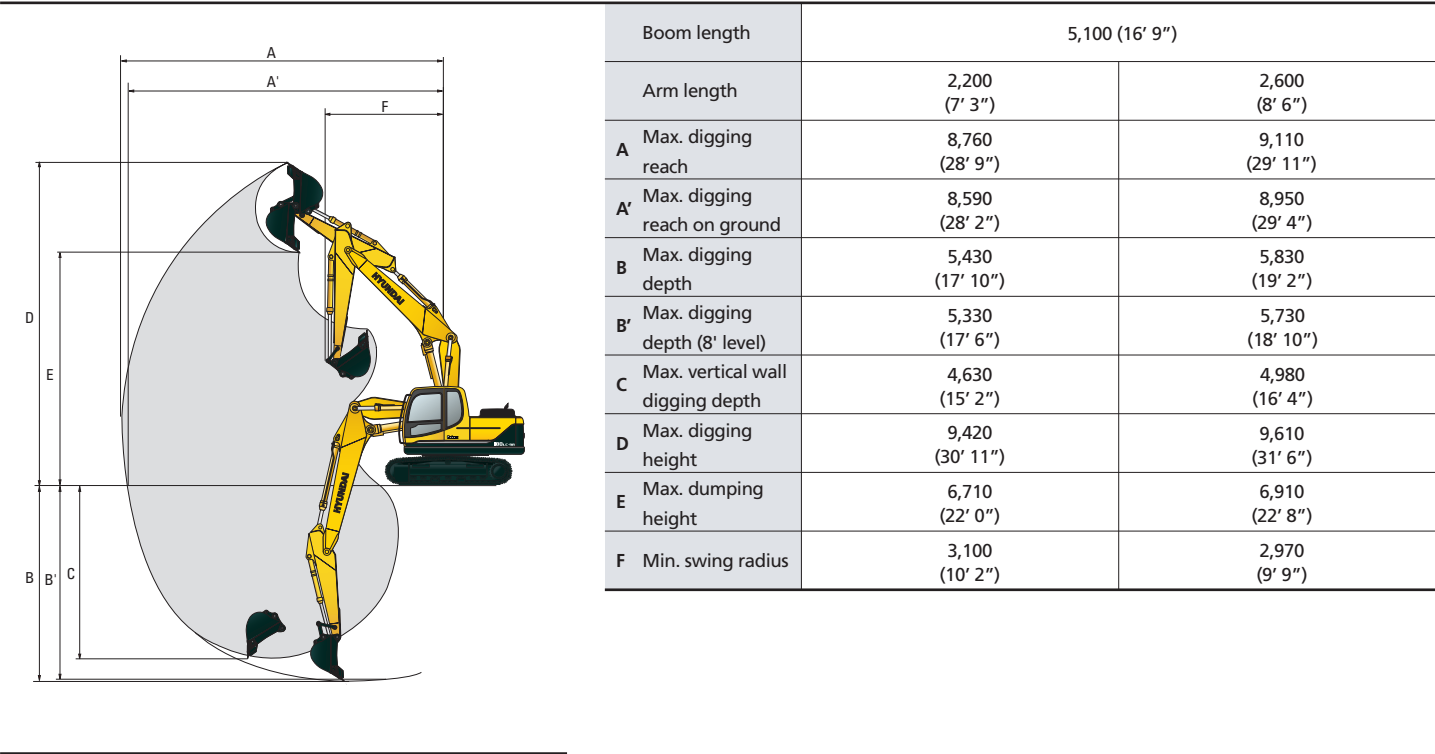
Dimensions & Working Range

R180LC-9A 2-PIECE BOOM DIMENSIONS



mm (ft-in)		mm (ft-in)			
A	Tumbler distance	3,360 (11' 0")		Boom length	
B	Overall length of crawler	4,150 (13' 7")		5,100(16' 9")	
C	Ground clearance of counterweight	1,055 (3' 6")		Arm length	
D	Tail swing radius	2,530 (8' 4")		2,200 (7' 3")	2,600 (8' 6")
D'	Rear-end length	2,480 (8' 2")		I	Overall length
E	Overall width of upperstructure	2,475 (8' 1")		8,610 (28' 3")	8,610 (28' 3")
F	Overall height of cab	2,980 (9' 9")		J	Overall height of boom
G	Min. ground clearance	460 (1' 6")		3,040 (9' 12")	3,060 (10' 0")
H	Track gauge	2,250 (7' 5")			
				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")	

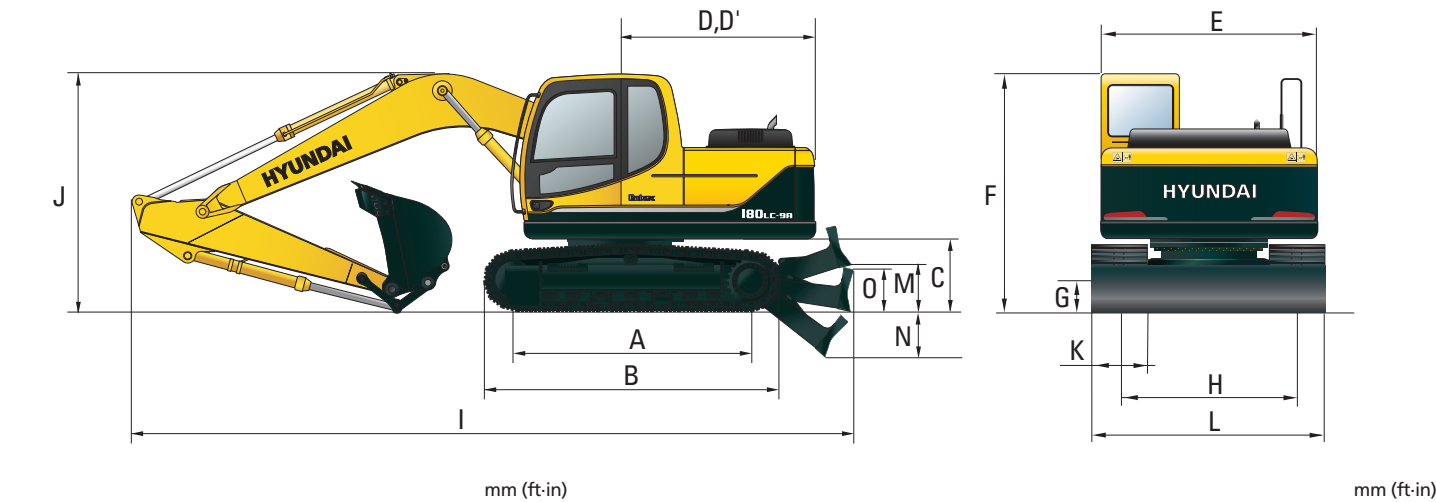
R180LC-9A 2-PIECE BOOM WORKING RANGE



mm (ft-in)		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	8,760 (28' 9")		9,110 (29' 11")	
A'	Max. digging reach on ground	8,590 (28' 2")		8,950 (29' 4")	
B	Max. digging depth	5,430 (17' 10")		5,830 (19' 2")	
B'	Max. digging depth (8' level)	5,330 (17' 6")		5,730 (18' 10")	
C	Max. vertical wall digging depth	4,630 (15' 2")		4,980 (16' 4")	
D	Max. digging height	9,420 (30' 11")		9,610 (31' 6")	
E	Max. dumping height	6,710 (22' 0")		6,910 (22' 8")	
F	Min. swing radius	3,100 (10' 2")		2,970 (9' 9")	

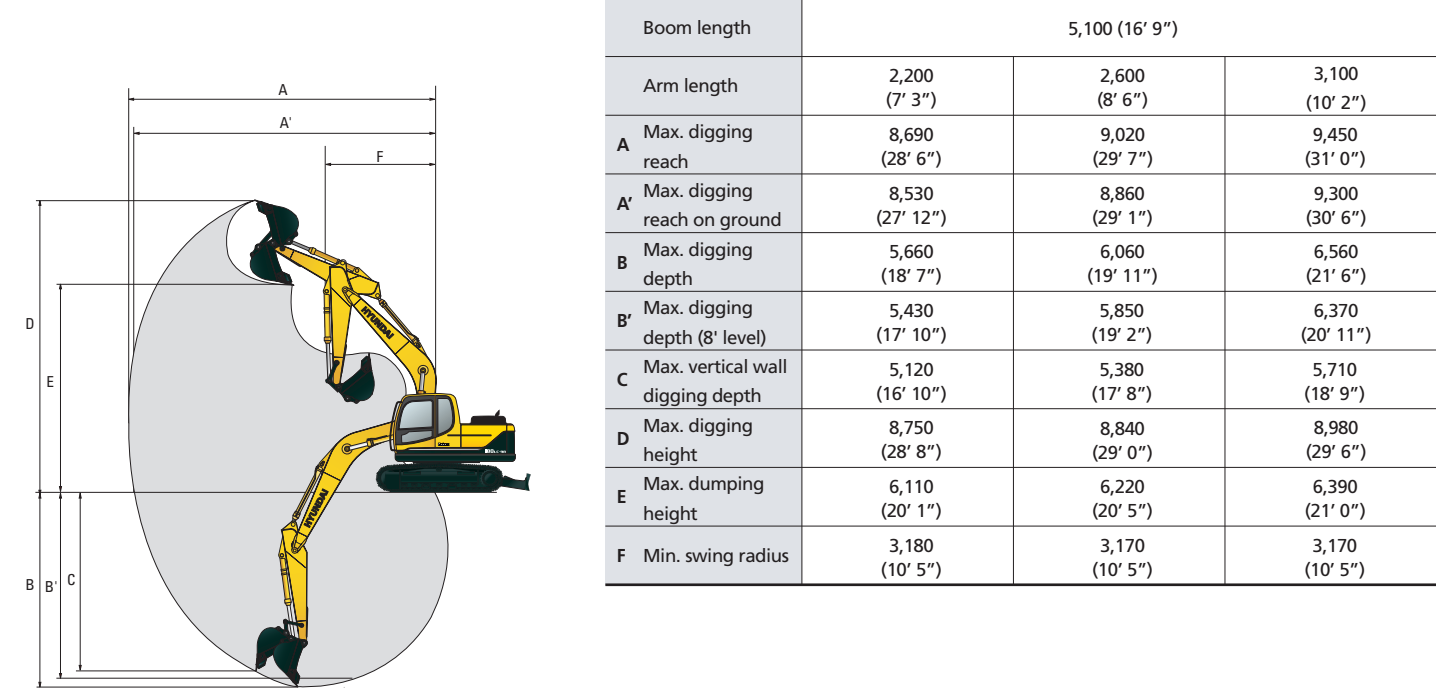
Dimensions & Working Range

R180LCD-9A DIMENSIONS



mm (ft-in)		mm (ft-in)			
A	Tumbler distance	5,100(16' 9")			
B	Overall length of crawler				
C	Ground clearance of counterweight				
D	Tail swing radius				
D'	Rear-end length				
E	Overall width of upperstructure				
F	Overall height of cab				
G	Min. ground clearance				
H	Track gauge				
M	Ground clearance of blade up				
N	Depth of blade down				
O	Height of blade				
		Boom length			
		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")
		L Overall width	2,750 (9' 1")	2,850 (9' 5")	3,050 (10' 1")

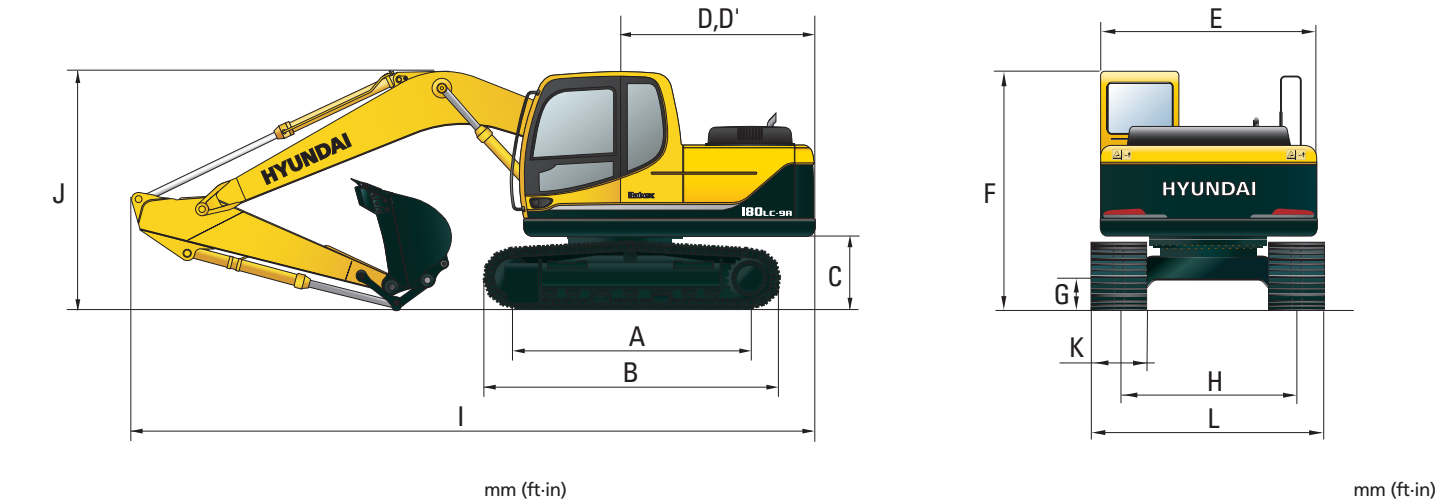
R180LCD-9A WORKING RANGE



mm (ft-in)		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")	

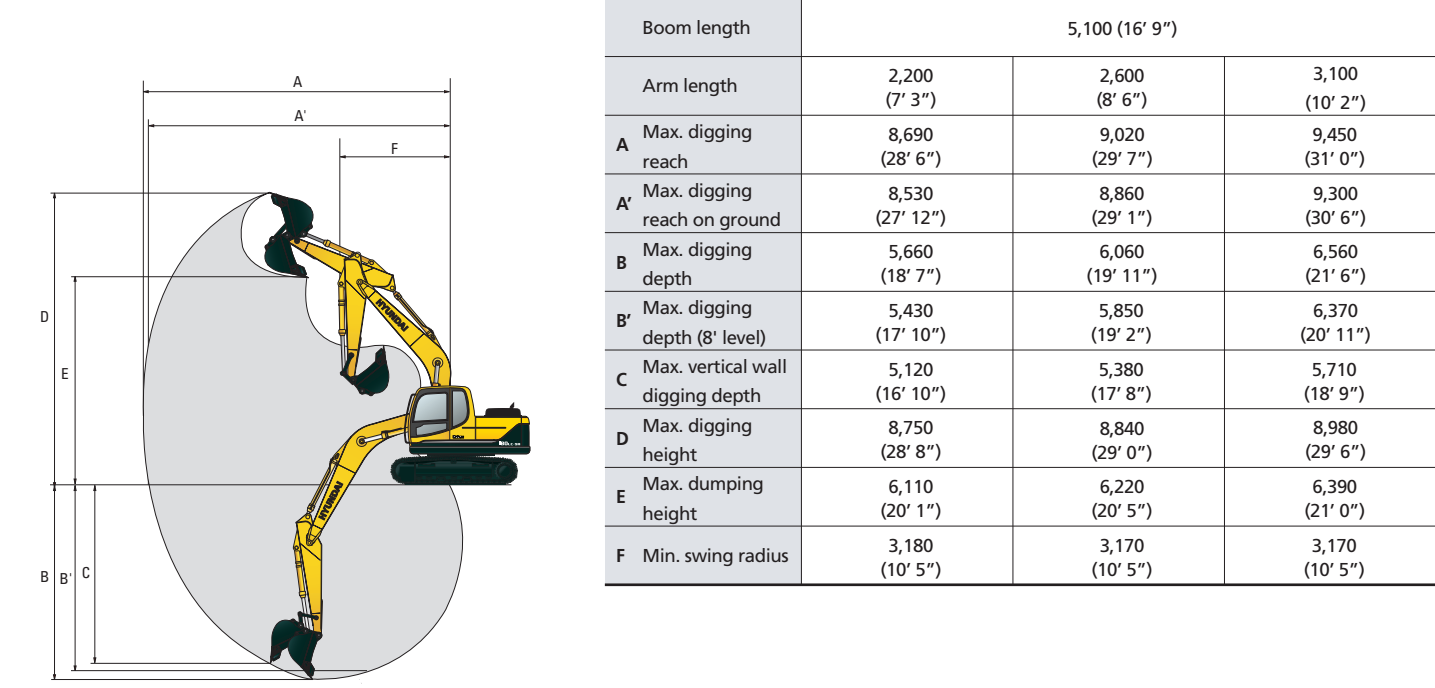
Dimensions & Working Range

R180NLC-9A DIMENSIONS



mm (ft-in)		mm (ft-in)			
A	Tumbler distance	5,100(16' 9")			
B	Overall length of crawler				
C	Ground clearance of counterweight				
D	Tail swing radius				
D'	Rear-end length				
E	Overall width of upperstructure				
F	Overall height of cab				
G	Min. ground clearance				
H	Track gauge				
		Boom length			
		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")

R180NLC-9A WORKING RANGE



mm (ft-in)		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")	

Lifting Capacity

R180LCD-9A

Boom : 5.10 m (16' 3") / Arm : 2.20 m (7' 3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600mm(24") triple grouser

Load point height m (ft)		Load 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 (25ft)	kg									*3750	*3750	5.60
	lb									*8270	*8270	(18.4)
6.0 m (20ft)	kg									*3660	3070	6.98
	lb									*8070	6770	(22.9)
4.5 m (15ft)	kg					*4570	*4570	*4110	3880	*3690	2510	7.76
	lb					*10080	*10080	*9060	8550	*8140	5530	(25.5)
3.0m (10ft)	kg			*9100	*9100	*5790	*5790	*4600	3740	*3760	2260	8.15
	lb			*20060	*20060	*12760	*12760	*10140	8250	*8290	4980	(26.7)
1.5 m (5ft)	kg					*7030	5530	*5160	3580	3740	2190	8.20
	lb					*15500	12190	*11380	7890	8250	4830	(26.9)
Ground	kg			*7120	*7120	*7680	5310	*5520	3460	3910	2280	7.94
Line	lb			*15700	*15700	*16930	11710	*12170	7630	8620	5030	(26.0)
-1.5 m (-5ft)	kg	*7040	*7040	*11150	10180	*7590	5240	*5450	3420	*3960	2600	7.31
	lb	*15520	*15520	*24580	22440	*16730	11550	*12020	7540	*8730	5730	(24.0)
-3.0 m (-10ft)	kg	*11230	*11230	*9630	*9630	*6670	5300			*3750	3420	6.19
	lb	*24760	*24760	*21230	*21230	*14700	11680			*8270	7540	(20.3)
-4.5 m (-15ft)	kg			*6270	*6270							
	lb			*13820	*13820							

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

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5ft)		3.0 m (10ft)		4.5 m (15ft)		6.0 m (20ft)		7.5 m (25ft)		Reach
												m (ft)
7.5 m (25ft)	kg											*3380
	lb											*7450
6.0 m (20ft)	kg							*3020	*3020			*3360
	lb							*6660	*6660			*7410
4.5 m (15ft)	kg							*3770				*3410
	lb							*8310	*8310			*7520
3.0m (10ft)	kg			*7910	*7910	*5310	*5310	*4300	3750	*2810	2570	*3500
	lb			*17440	*17440	*11710	*11710	*9480	8270	*6190	5670	*7720
1.5 m (5ft)	kg			*8120	*8120	*6650	5550	*4920	3570	*3650	2490	3490
	lb			*17900	*17900	*14660	12240	*10850	7870	*8050	5490	7690
Ground	kg			*7910	*7910	*7500	5280	*5380	3430	*3470	2430	3630
Line	lb			*17440	*17440	*16530	11640	*11860	7560	*7650	5360	8000
-1.5 m (-5ft)	kg	*6710	*6710	*10690	11060	*7620	5180	*5460	3360			*3810
	lb	*14790	*14790	*23570	22180	*16800	11420	*12040	7410			*8400
-3.0 m (-10ft)	kg	*9990	*9990	*10280	10180	*6960	5200	*4870	3390			*3750
	lb	*22020	*22020	*22660	22440	*15340	11460	*10740	7470			*8270
-4.5 m (-15ft)	kg			*7470	*7470	*4960	*4960					
	lb			*16470	*16470	*10930	*10930					

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

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5ft)		3.0 m (10ft)		4.5 m (15ft)		6.0 m (20ft)		7.5 m (25ft)		Reach
												m (ft)
7.5 m (25ft)	kg											*3000
	lb											*6610
6.0 m (20ft)	kg							*2870	*2870			*3020
	lb							*6330	*6330			*6660
4.5 m (15ft)	kg							*3350		*2130	*2130	*3100
	lb							*7390	*7390	*4700	*4700	*6830
3.0m (10ft)	kg					*4710	*4710	*3930	3770	*3090	2570	*3200
	lb					*10380	*10380	*8660	8310	*6810	5670	*7050
1.5 m (5ft)	kg			*10220	*10220	*6160	5600	*4620	3570	*3850	2470	3200
	lb			*22530	*22530	*13580	12350	*10190	7870	*8490	5450	7050
Ground	kg			*8670	*8670	*7210	5280	*5180	3410	*4100	2390	3310
Line	lb			*19110	*19110	*15900	11640	*11420	7520	*9040	5270	7300
-1.5 m (-5ft)	kg	*6310	*6310	*10330	9960	*7580	5120	*5420	3310	*3230	2350	*3570
	lb	*13910	*13910	*22770	21960	*16710	11290	*11950	7300	*7120	5180	*7870
-3.0 m (-10ft)	kg	*8950	*8950	*10900	10020	*7200	5110	*5110	3300			*3630
	lb	*19730	*19730	*24030	22090	*15870	11270	*11270	7280			*8000
-4.5 m (-15ft)	kg	*12430	*12430	*8640	*8640	*5790	5230					*3370
	lb	*27400	*27400	*19050	*19050	*12760	11530					*7430

- 1. Lifting capacity is based on SAE J1097, ISO 10567.
- 2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The load point is a hook located on the back of the bucket.
- 4. (*) indicates the load limited by hydraulic capacity.

Lifting Capacity













R180NLC-9A

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

Load point height m (ft)		Load 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 (25ft)	kg									*3750	*3750	5.60
	lb									*8270	*8270	(18.4)
6.0 m (20ft)	kg									*3660	2550	6.98
	lb									*8070	5620	(22.9)
4.5 m (15ft)	kg					*4570	*4570	*4110	3230	*3680	2060	7.76
	lb					*10080	*10080	*9060	7120	*8110	4540	(25.5)
3.0m (10ft)	kg			*9100	*9100	*5790	*5790	*4600	3100	*3340	1830	8.15
	lb			*20060	*20060	*12760	*12760	*10140	6830	*7360	4030	(26.7)
1.5 m (5ft)	kg					*7030	4530	*5160	2940	*3260	1770	8.20
	lb					*15500	9990	*11380	6480	*7190	3900	(26.9)
Ground	kg			*7120	*7120	*7680	4320	5220	2820	3400	1840	7.94
Line	lb			*15700	*15700	*16930	9520	11510	6220	7500	4060	(26.0)
-1.5 m (-5ft)	kg	*7040	*7040	*11150	9670	*7590	4250	5160	2780	3870	2110	7.31
	lb	*15520	*15520	*24580	21320	*16730	9370	11380	6130	*8530	4650	(24.0)
-3.0 m (-10ft)	kg	*11230	*11230	*9630	*9630	*6670	4310			*3750	2800	6.19
	lb	*24760	*24760	*21230	*21230	*14700	9500			*8270	6170	(20.3)
-4.5 m (-15ft)	kg			*6270	*6270							
	lb			*13820	*13820							

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

Load point height m (ft)		Load radius								At max. reach		
		1.5 m (5ft)		3.0 m (10ft)		4.5 m (15ft)		6.0 m (20ft)		7.5 m (25ft)		Reach
												m (ft)
7.5 m (25ft)	kg											*3380
	lb											*7450
6.0 m (20ft)	kg							*3020	*3020			*3360
	lb							*6660	*6660			*7410
4.5 m (15ft)	kg							*3770	3250			*3410
	lb							*8310	7170			*7520
3.0m (10ft)	kg			*7910	*7910	*5310	4930	*4300	3100	*2810	2090	*3110
	lb			*17440	*17440	*11710	10870	*9480	6830	*6190	4610	*6860
1.5 m (5ft)	kg			*8120	*8120	*6650	4550	*4920	2930	*3650	2020	3030
	lb			*17900	*17900	*14660	10030	*10850	6460	*8050	4450	6680
Ground	kg			*7910	*7910	*7500	4290	5180	2790	*3470	1960	3150
Line	lb			*17440	*17440	*16530	9460	11420	6150	*7650	4320	6940
-1.5 m (-5ft)	kg	*6710	*6710	*10690	7980	*7620	4190	5110	2720			3540
	lb	*14790	*14790	*23570	17590	*16800	9240	11270	6000			7800
-3.0 m (-10ft)	kg	*9990	*9990	*10280	8100	*6960	4210	*4870	2750			*3750
	lb	*22020	*22020	*22660	17860	*15340	9280	*10740	6060			*8270
-4.5 m (-15ft)	kg			*7470	*7470	*4960	4390					
	lb			*16470	*16470	*10930	9680					

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																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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		1.5 m (5ft)		3.0 m (10ft)		4.5 m (15ft)		6.0 m (20ft)		7.5 m (25ft)		Capacity		Reach																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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