

Specifications R180LC-9A

ENGINE

MODEL		PERKINS 1204E
Type	Water cooled, 4 cycle Diesel, 4-Cylinders in line, direct injection, turbocharged, charged air cooled and low emission	
Rated flywheel horse power		
SAE	J1995 (gross)	137 HP (102.2 kW) / 2,050 rpm
	J1349 (net)	128 HP (96 kW) / 2,050 rpm
DIN	6271/1 (gross)	139 PS (102.2 kW) / 2,050 rpm
	6271/1 (net)	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 displacement		4,400 cc (268.5 in³)
Batteries		2 x 12 V x 100AH
Starting motor		24 V- 4.5 kW
Alternator		24 V- 80 Amp

* This engine meets the EPA (Tier 4 interim) / EU (Stage III-B) Emission regulation.

HYDRAULIC SYSTEM

MAIN PUMP	
Type	Variable displacement axial piston pumps
Max. flow	2 x 160 ℓ/min (44.4 US gpm / 37.0 UK gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS	
Travel	Two-speed axial piston 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")
	2PC-boom 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/h (3.1 mph) / 3.2 km/h (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

SWING SYSTEM

Swing motor	Two fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	11.2 rpm

COOLANT & LUBRICANT CAPACITY

	liter	US gal	UK gal
Refilling			
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 rollers on each side	2
No. of track rollers on each side	7
No. of rail guards on each side	2

OPERATING WEIGHT (APPROXIMATE)

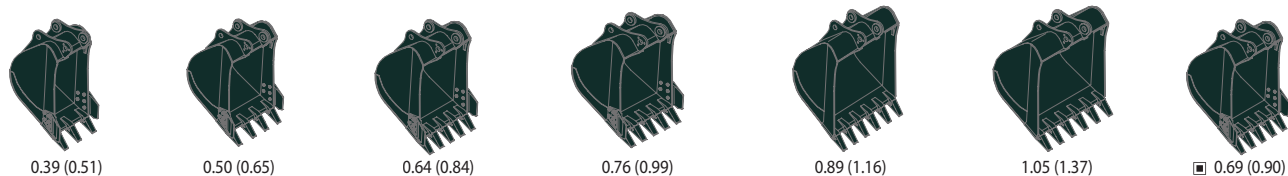
Operating weight, including 5,100 mm (16' 9") boom, 2,600 mm (8' 6") arm, SAE heaped 0.76 m³ (0.99 yd³) bucket, lubricant, coolant, full fuel tank, full hydraulic tank and all standard equipments.

MAJOR COMPONENT WEIGHT	
Upperstructure	4,980 kg (10,980 lb)
5.1 m (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)
	800 (32")	R180LC-9A	19,100 (42,110) 0.33 (4.69)
		R180LCD-9A	20,100 (44,310) 0.35 (4.98)

BUCKETS R180LC-9A

All buckets are welded with high-strength steel.



SAE heaped m³ (yd³)

Capacity m³ (yd³)		Width mm (in)		Weight kg (lb)	Recommendation m (ft.in)				
SAE heaped	CECE heaped	Without side cutters	With side cutters		5.1 (16'9") Mono Boom			5.1 (16'9") Hydraulic Adjustable Boom	
					2.2 (7'3") Arm	2.6 (8'6") Arm	3.1 (10'2") Arm	2.2 (7'3") Arm	2.6 (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 R180LC-9A

Booms and arms are welded, a low-stress, full-box section design.

5.1 m (16' 9") boom & 5.1 m (16' 9") hydraulic adjustable boom and 2.20 m (7' 3"); 2.60 m (8' 6") & 3.10 m (10' 2") arms are available.

DIGGING FORCE R180LC-9A

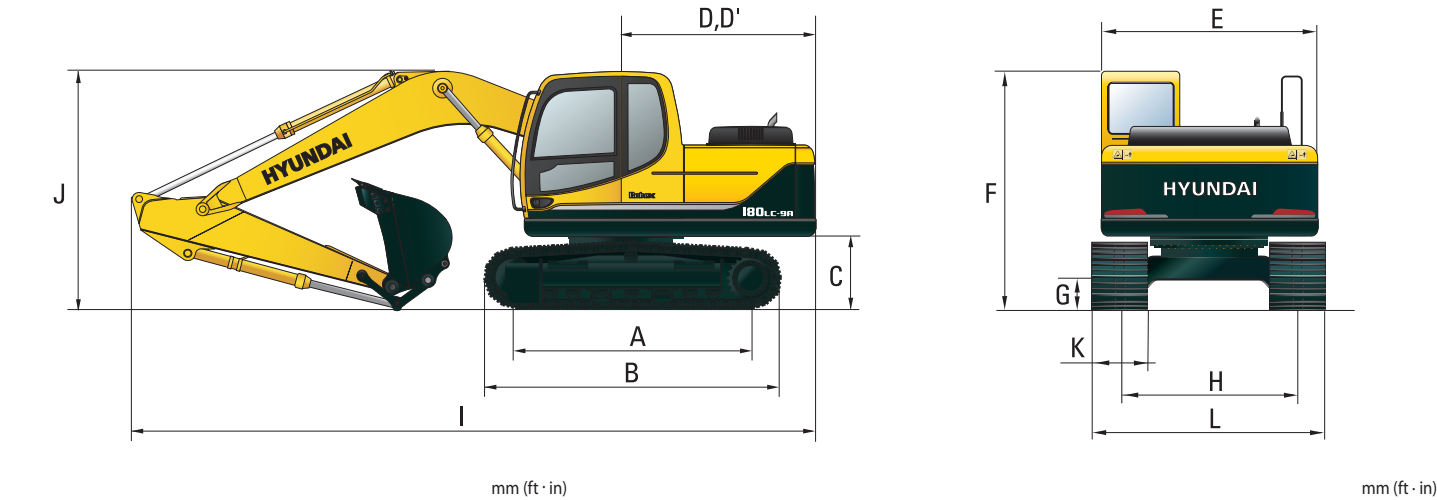
Boom	Length	mm (ft-in)	5,100 (16'9")			Remarks
	Weight	kg (lb)	1,250 (2,760)			
Arm	Length	mm (ft-in)	2,200 (7'3")	2,600 (8'6")	3,100 (10'2")	
	Weight	kg (lb)	750 (1,560)	810 (1,790)	890 (1,960)	
Bucket digging force	SAE	kN	107.9 [117.2]	107.9 [117.2]	107.9 [117.2]	[]: Power Boost
		kgf	11,000 [11,940]	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 Ranges

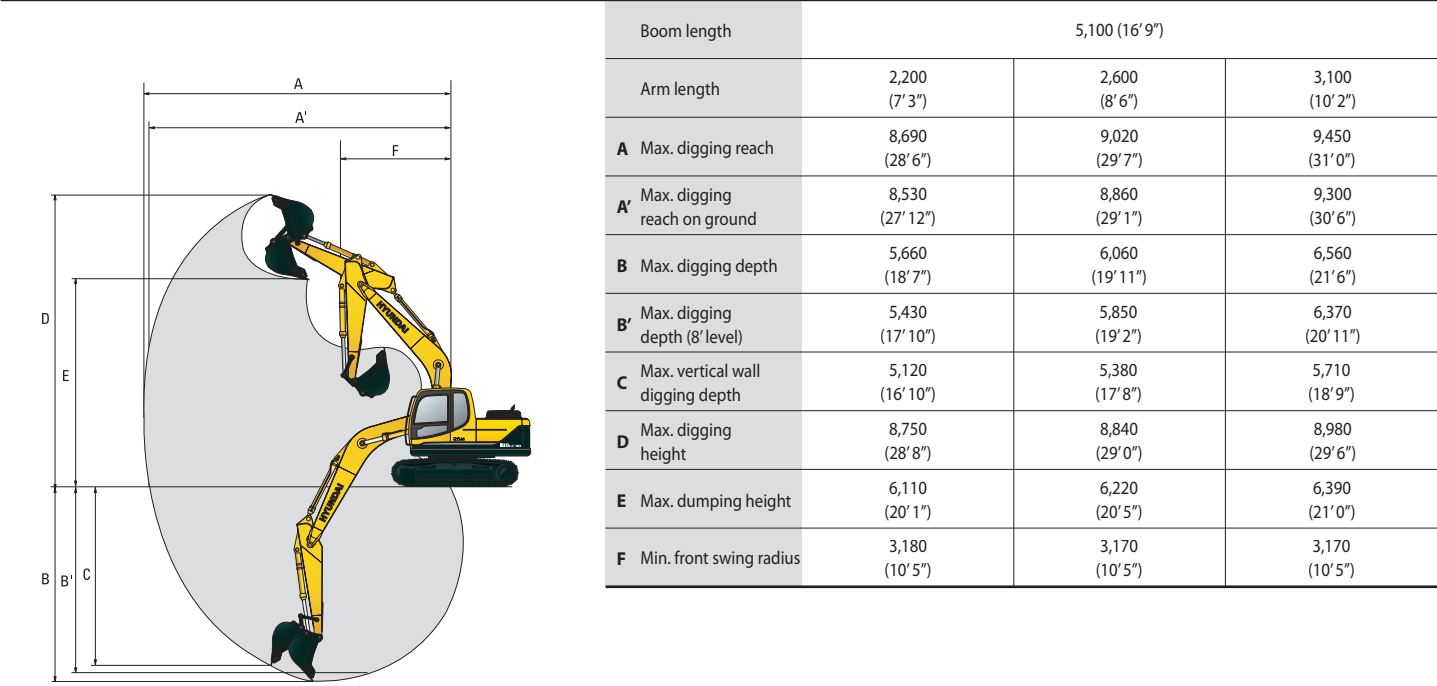
DIMENSIONS R180LC-9A



	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")

	mm (ft · in)		
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")

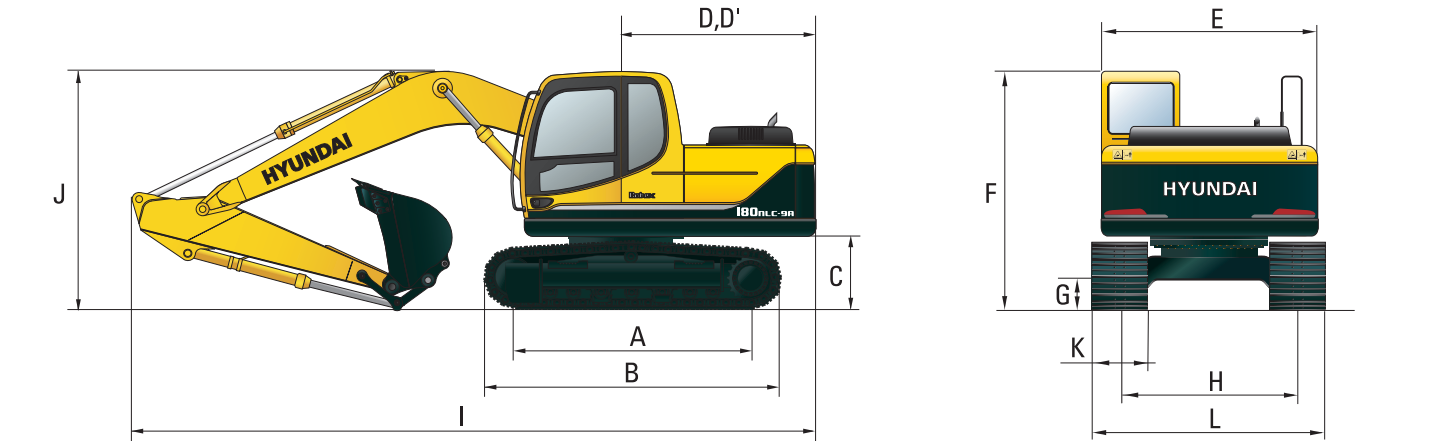
WORKING RANGES R180LC-9A



	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. front swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")

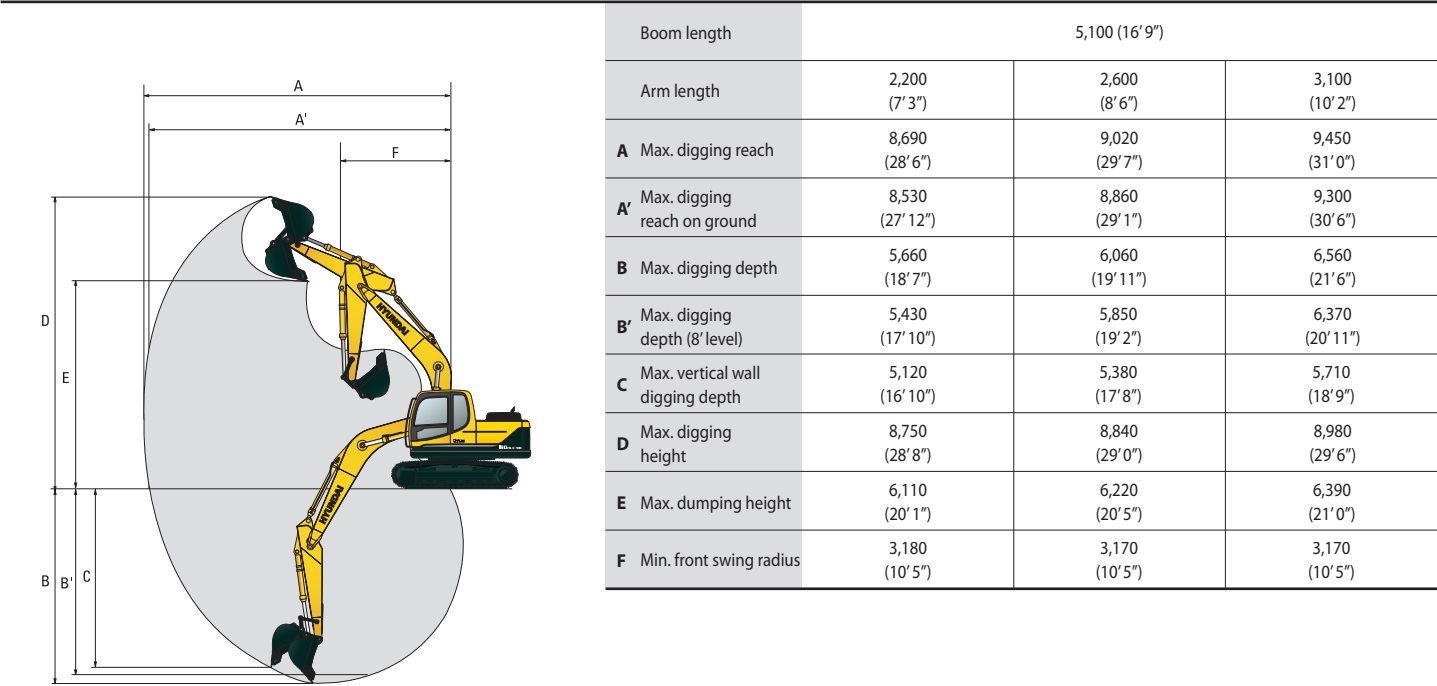
Dimensions & Working Ranges

DIMENSIONS R180NLC-9A



mm (ft · in)		mm (ft · in)		
A Tumbler distance	3,360 (11' 0")	Boom length 5,100 (16' 9")		
B Overall length of crawler	4,150 (13' 7")	Arm length	2,200 (7' 3")	2,600 (8' 6")
C Ground clearance of counterweight	1,055 (3' 6")	I Overall length	8,660 (28' 5")	8,650 (28' 5")
D Tail swing radius	2,530 (8' 4")	J Overall height of boom	3,010 (9' 11")	2,990 (9' 10")
D' Rear-end length	2,480 (8' 2")	K Track shoe width	500 (20")	600 (24")
E Overall width of upperstructure	2,475 (8' 1")	L Overall width	2,500 (8' 2")	2,600 (8' 6")
F Overall height of cab	2,980 (9' 9")			
G Min. ground clearance	460 (1' 6")			
H Track gauge	2,000 (6' 7")			

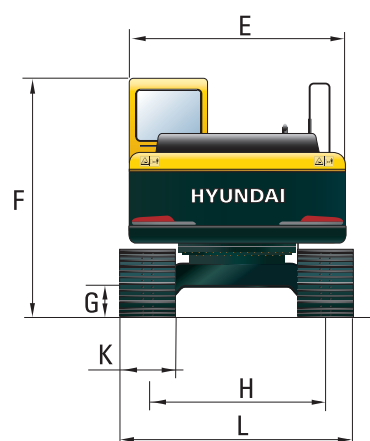
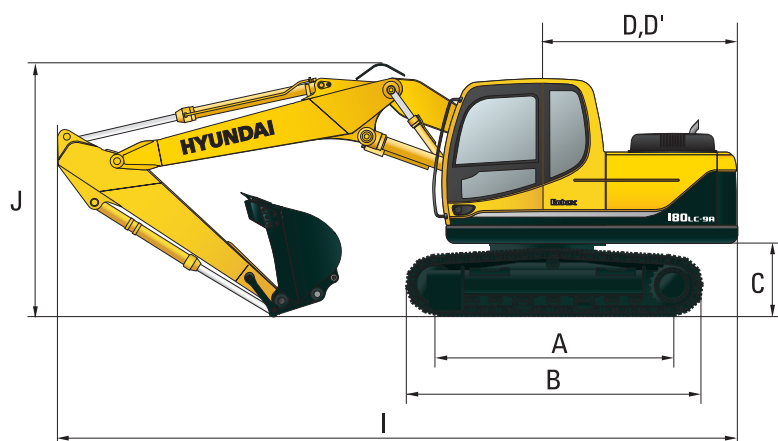
WORKING RANGES R180NLC-9A



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. front swing radius	3,180 (10' 5")	3,170 (10' 5")	3,170 (10' 5")	

Dimensions & Working Ranges

DIMENSIONS R180LC-9A 2-PIECE BOOM



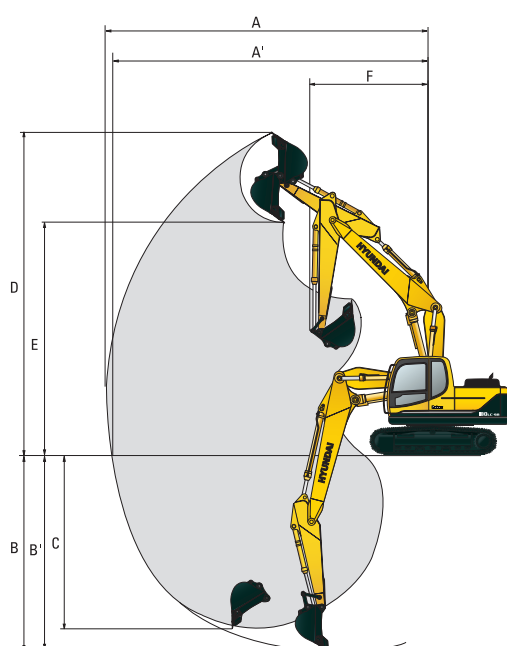
mm (ft · in)

mm (ft · in)

A Tumbler distance	3,360 (11' 0")	Boom length	5,100 (16' 9")		
B Overall length of crawler	4,150 (13' 7")	Arm length	2,200 (7' 3")	2,600 (8' 6")	
C Ground clearance of counterweight	1,055 (3' 6")	I Overall length	8,610 (28' 3")	8,610 (28' 3")	
D Tail swing radius	2,530 (8' 4")	J Overall height of boom	3,040 (9' 12")	3,060 (10' 0")	
D' Rear-end length	2,480 (8' 2")				
E Overall width of upperstructure	2,475 (8' 1")	K Track shoe width	500 (20")	600 (24")	700 (28")
F Overall height of cab	2,980 (9' 9")	L Overall width	2,750 (9' 1")	2,850 (9' 5")	2,950 (9' 9")
G Min. ground clearance	460 (1' 6")				
H Track gauge	2,250 (7' 5")				

WORKING RANGES R180LC-9A 2-PIECE BOOM

mm (ft · in)













Boom length	5,100 (16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	
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. front swing radius	3,100 (10' 2")	2,970 (9' 9")	

Lifting Capacities











R180LC-9A

 Rating over-front  Rating over-side or 360 degrees











Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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	2920	6.98
	lb									*8070	6440	(22.9)
4.5 m (15ft)	kg					*4570	*4570	*4110	3690	*3690	2370	7.76
	lb					*10080	*10080	*9060	8140	*8140	5220	(25.5)
3.0 m (10ft)	kg			*9100	*9100	*5790	5620	*4600	3550	3360	2130	8.15
	lb			*20060	*20060	*12760	12390	*10140	7830	7410	4700	(26.7)
1.5 m (5ft)	kg					*7030	5250	*5160	3390	3280	2060	8.20
	lb					*15500	11570	*11380	7470	7230	4540	(26.9)
Ground Line	kg			*7120	*7120	*7680	5030	5250	3270	3420	2150	7.94
	lb			*15700	*15700	*16930	11090	11570	7210	7540	4740	(26.0)
-1.5 m (-5ft)	kg	*7040	*7040	*11150	9670	*7590	4970	5200	3230	3900	2450	7.31
	lb	*15520	*15520	*24580	21320	*16730	10960	11460	7120	8600	5400	(24.0)
-3.0 m (-10ft)	kg	*11230	*11230	*9630	*9630	*6670	5030			*3750	3240	6.19
	lb	*24760	*24760	*21230	*21230	*14700	11090			*8270	7140	(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 : 600 mm (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	6.11
	lb										*7450	(20.0)
6.0 m (20ft)	kg							*3020	*3020		*3360	7.37
	lb							*6660	*6660		*7410	(24.2)
4.5 m (15ft)	kg							*3770	3720		*3410	8.11
	lb							*8310	8200		*7520	(26.6)
3.0 m (10ft)	kg			*7910	*7910	*5310	*5310	*4300	3560	*2810	3130	1970
	lb			*17440	*17440	*11710	*11710	*9480	7850	*6190	5340	4340
1.5 m (5ft)	kg			*8120	*8120	*6650	5270	*4920	3380	*3650	2350	1900
	lb			*17900	*17900	*14660	11620	*10850	7450	*8050	5180	4190
Ground Line	kg			*7910	*7910	*7500	5010	5220	3240	*3470	2280	1970
	lb			*17440	*17440	*16530	11050	11510	7140	*7650	5030	6990
-1.5 m (-5ft)	kg	*6710	*6710	*10690	9550	*7620	4900	5140	3170		3560	2220
	lb	*14790	*14790	*23570	21050	*16800	10800	11330	6990		7850	4890
-3.0 m (-10ft)	kg	*9990	*9990	*10280	9680	*6960	4930	*4870	3200		*3750	2830
	lb	*22020	*22020	*22660	21340	*15340	10870	*10740	7050		*8270	6240
-4.5 m (-15ft)	kg			*7470	*7470	*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 : 600 mm (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	6.73
	lb										*6610	(22.1)
6.0 m (20ft)	kg							*2870	*2870		*3020	7.88
	lb							*6330	*6330		*6660	(25.9)
4.5 m (15ft)	kg							*3350	*3350	*2130	*2130	1970
	lb							*7390	*7390	*4700	*4700	4340
3.0 m (10ft)	kg					*4710	*4710	*3930	3580	*3090	2420	1780
	lb					*10380	*10380	*8660	7890	*6810	5340	3920
1.5 m (5ft)	kg			*10220	*10220	*6160	5330	*4620	3380	3730	2330	2790
	lb			*22530	*22530	*13580	11750	*10190	7450	8220	5140	6150
Ground Line	kg			*8670	*8670	*7210	5010	*5180	3220	3640	2250	2880
	lb			*19110	*19110	*15900	11050	*11420	7100	8020	4960	6350
-1.5 m (-5ft)	kg	*6310	*6310	*10330	9460	*7580	4850	5090	3120	*3230	2210	3190
	lb	*13910	*13910	*22770	20860	*16710	10690	11220	6880	*7120	4870	7030
-3.0 m (-10ft)	kg	*8950	*8950	*10900	9520	*7200	4830	5080	3110			*3630
	lb	*19730	*19730	*24030	20990	*15870	10650	11200	6860			*8000
-4.5 m (-15ft)	kg	*12430	*12430	*8640	*8640	*5790	4950					*3370
	lb	*27400	*27400	*19050	*19050	*12760	10910					*7430













- 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 Capacities













R180LC-9A 2-PIECE BOOM

 Rating over-front  Rating over-side or 360 degrees

Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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)		Capacity		Reach
														m (ft)
6.0 m (20ft)	kg											*3720	2840	7.06
	lb											*8200	6260	(23.2)
4.5 m (15ft)	kg							*4150	3700			3660	2310	7.83
	lb							*9150	8160			8070	5090	(25.7)
3.0 m (10ft)	kg					*5840	5630	*4600	3550			3330	2080	8.21
	lb					*12870	12410	*10140	7830			7340	4590	(26.9)
1.5 m (5ft)	kg					*6990	5230	*5120	3380	*3430	2350	3250	2010	8.27
	lb					*15410	11530	*11290	7450	*7560	5180	7170	4430	(27.1)
Ground Line	kg			*6220	*6220	*7560	4990	5270	3250			3400	2100	8.01
	lb			*13710	*13710	*16670	11000	11620	7170			7500	4630	(26.3)
-1.5 m (-5ft)	kg	*6220	*6220	*10360	9630	*7410	4930	5220	3200			*3680	2410	7.39
	lb	*13710	*13710	*22840	21230	*16340	10870	11510	7050			*8110	5310	(24.2)
-3.0 m (-10ft)	kg			*9130	*9130	*6390	5010					*3280	3180	6.28
	lb			*20130	*20130	*14090	11050					*7230	7010	(20.6)

Boom : 5.10 m (16'9") / Arm : 2.60 m (8'6") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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)		Capacity		Reach
														m (ft)
6.0 m (20ft)	kg											*3420	2580	7.48
	lb											*7540	5690	(24.5)
4.5 m (15ft)	kg											3380	2120	8.20
	lb											7450	4670	(26.9)
3.0 m (10ft)	kg							*4320	3560	*3220	2410	3090	1910	8.57
	lb							*9520	7850	*7100	5310	6810	4210	(28.1)
1.5 m (5ft)	kg			*7010	*7010	*6640	5260	*4900	3370	3760	2330	3010	1850	8.62
	lb			*15450	*15450	*14640	11600	*10800	7430	8290	5140	6640	4080	(28.3)
Ground Line	kg			*7070	*7070	*7400	4970	5240	3220	3690	2260	3130	1920	8.37
	lb			*15590	*15590	*16310	10960	11550	7100	8140	4980	6900	4230	(27.5)
-1.5 m (-5ft)	kg	*6050	*6050	*9980	9500	*7450	4870	5160	3150			3520	2170	7.78
	lb	*13340	*13340	*22000	20940	*16420	10740	11380	6940			7760	4780	(25.5)
-3.0 m (-10ft)	kg	*9510	*9510	*9830	9650	*6710	4900	*4670	3180			*3320	2770	6.76
	lb	*20970	*20970	*21670	21270	*14790	10800	*10300	7010			*7320	6110	(22.2)
-4.5 m (-15ft)	kg			*6820	*6820	*4540	*4540							
	lb			*15040	*15040	*10010	*10010							

- 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 Capacities

R180LCD-9A



Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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)
3.0 m (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 Line	kg			*7120	*7120	*7680	5310	*5520	3460	3910	2280	7.94
	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 : 600 mm (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	*3770			*3410
	lb							*8310	*8310			*7520
3.0 m (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 Line	kg			*7910	*7910	*7500	5280	*5380	3430	*3470	2430	3630
	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 : 600 mm (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	*3350	*2130	*2130	*3100
	lb							*7390	*7390	*4700	*4700	*6830
3.0 m (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 Line	kg			*8670	*8670	*7210	5280	*5180	3410	*4100	2390	3310
	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











- 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 Capacities











R180NLC-9A

 Rating over-front  Rating over-side or 360 degrees











Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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)
3.0 m (10ft)	kg			*9100	*9100	*5790	4880	*4600	3100	3340	1830	8.15
	lb			*20060	*20060	*12760	10760	*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 Line	kg			*7120	*7120	*7680	4320	5220	2820	3400	1840	7.94
	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 : 600 mm (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											3290 (20.0)
6.0 m (20ft)	kg							*3020	*3020			*7450
	lb							*6660	*6660			2320 (7.37)
4.5 m (15ft)	kg							*3770	3250			*7410
	lb							*8310	7170			5110 (24.2)
3.0 m (10ft)	kg			*7910	*7910	*5310	4930	*4300	3100	*2810	2090	*3410
	lb			*17440	*17440	*11710	10870	*9480	6830	*6190	4610	*7520
1.5 m (5ft)	kg			*8120	*8120	*6650	4550	*4920	2930	*3650	2020	3110
	lb			*17900	*17900	*14660	10030	*10850	6460	*8050	4450	1690 (8.48)
Ground Line	kg			*7910	*7910	*7500	4290	5180	2790	*3470	1960	6860
	lb			*17440	*17440	*16530	9460	11420	6150	*7650	4320	3730 (27.8)
-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			4190 (25.2)
	lb	*22020	*22020	*22660	17860	*15340	9280	*10740	6060			*3750
-4.5 m (-15ft)	kg			*7470	*7470	*4960	4390					*8270
	lb			*16470	*16470	*10930	9680					5380 (21.8)

Boom : 5.10 m (16'9") / Arm : 3.10 m (11'1") / Bucket : 0.76 m³ (0.92 yd³) SAE heaped / Shoe : 600 mm (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											2790 (22.1)
6.0 m (20ft)	kg							*2870	*2870			*6610
	lb							*6330	*6330			2050 (7.88)
4.5 m (15ft)	kg							*3350	3280	*2130	*2130	*3020
	lb							*7390	7230	*4700	*4700	2050 (25.9)
3.0 m (10ft)	kg					*4710	*4710	*3930	3120	*3090	2090	*6660
	lb					*10380	*10380	*8660	6880	*6810	4610	*3100
1.5 m (5ft)	kg			*10220	8620	*6160	4600	*4620	2930	3700	2000	*6830
	lb			*22530	19000	*13580	10140	*10190	6460	8160	4410	2850 (8.91)
Ground Line	kg			*8670	8030	*7210	4290	5160	2760	3610	1920	6280
	lb			*19110	17700	*15900	9460	11380	6080	7960	4230	3350 (29.2)
-1.5 m (-5ft)	kg	*6310	*6310	*10330	7890	*7580	4140	5060	2670	*3230	1880	2860
	lb	*13910	*13910	*22770	17390	*16710	9130	11160	5890	*7120	4140	1500 (8.73)
-3.0 m (-10ft)	kg	*8950	*8950	*10900	7950	*7200	4120	5040	2660			6310 (28.6)
	lb	*19730	*19730	*24030	17530	*15870	9080	11110	5860			3310 (26.8)
-4.5 m (-15ft)	kg	*12430	*12430	*8640	8170	*5790	4240					2850 (23.7)
	lb	*27400	*27400	*19050	18010	*12760	9350					1670 (8.17)

- 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 R180LC-9A

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)
One key fits all lockable doors
Hot & cool box
Storage compartment & Ashtray
Radio / MP3 Player with remote control and USB-input
Handsfree mobile phone system with USB-charging device
Transparent cabin roof-cover
12 volt power outlet (24V DC to 12V DC converter)
Sun visor
Rain guard - front window

Computer aided power optimization (CAPO) system

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

Automatic temperature 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
Clock
Gauges
- Fuel level gauge
- Engine coolant temperature gauge
- Hyd. oil temperature gauge
Warning lamps
- Engine warning
- Overload
- Communication error
- Low battery
- Air filter clogging
Indicators
- Max power
- Low speed/High speed
- Fuel warmer
- Auto deceleration
Rearview camera

Door and cab locks, one key

Three outside rearview mirrors

Mechanical suspension seat with heater

Adjustable joysticks

Console box tilting system

Four front working lights

Electric horn

Batteries (2 x 12V x 100 AH)

Battery master switch

Removable clean-out screen for coolers

Automatic swing brake

Fuel pre-filter with fuel warmer

Boom holding system

Arm holding system

Track shoes (600 mm; 24")

Track rail guard

Accumulator for lowering work equipment

Lower frame under cover

Viscous fan clutch

Fuel filler pump (35 l/min)

Safety lock valve for boom cylinder with overload warning device

Double-acting piping kit (clamshell, etc.)

Travel alarm

Boom

5.1 m; 16' 9"

Arm

2.6 m; 8' 6"

Cabin ROPS (ISO 12117-2)

ROPS (Roll Over Protective Structure)

Hi-mate (Remote Management System)

OPTIONAL EQUIPMENT R180LC-9A

Beacon lamp

Safety lock valve for arm cylinder

Single-acting piping kit (breaker, etc.)

Quick coupler

Boom

5.1 m; 16' 9" - hydraulic adjustable

Arm

2.2 m; 7' 3"

3.1 m; 10' 2" - not for hydraulic adjustable boom

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

FOPS (Falling Object Protective Structure)

FOG (Falling Object Guard)

Cabin roof-steel cover

Cabin lights

Track shoes

Triple grousers shoe (500 mm; 20")

Triple grousers shoe (700 mm; 28") - not for R180NLC-9A

Triple grousers shoe (800 mm; 32") - not for R180NLC-9A

Dozer blade - R180LCD-9A

640 mm (2' 1") x 2,750 mm (9' 1")

640 mm (2' 1") x 2,850 mm (9' 5")

640 mm (2' 1") x 3,050 mm (10' 1")

Additional lower frame - reinforced under cover

Seat

Adjustable air suspension seat

Adjustable air suspension seat with heater

Mechanical suspension seat

Pattern change valve (2 patterns)

- * 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

