

Specifications R160LC-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) / 1,400 rpm	
Bore x stroke	105 x 127 mm (4.13" x 5.0")	
Piston displacement	4,400 cc (268.5 in ³)	
Batteries	2 x 12 V x 100 Ah	
Starting motor	24 V- 4.5 kW	
Alternator	24 V- 80 A	

* 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 164 l/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 piston 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	
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- 1st: 2-115 x 960 mm (4.5" x 37.8")
	boom 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	11.3 rpm

COOLANT & LUBRICANT CAPACITY

	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)	240	63.4	52.8
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	49
No. of carrier rollers on each side	2
No. of track rollers on each side	7
No. of rail guards on each side	1

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 5,100 mm (16' 9") boom, 2,600 mm (8' 6") arm, SAE heaped 0.70 m³ (0.92 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)

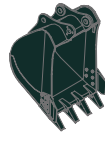
OPERATING WEIGHT			
Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf/cm ² (psi)
Triple grouser	500 (20")	R160LC-9A	17,550 (38,690) / 0.51 (7.25)
		R160LCD-9A	18,550 (40,900) / 0.54 (7.68)
	600 (24")	R160LC-9A	17,800 (39,240) / 0.43 (6.11)
		R160LCD-9A	18,800 (41,450) / 0.46 (6.54)
	700 (30")	R160LC-9A	18,050 (39,790) / 0.38 (5.40)
		R160LCD-9A	19,050 (42,000) / 0.40 (5.69)

BUCKETS R160LC-9A

All buckets are welded with high-strength steel.



0.39 (0.51)



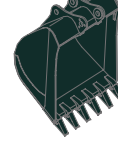
0.50 (0.65)



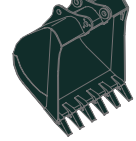
0.64 (0.84)



0.70 (0.92)



0.89 (1.16)



⊕ 0.69 (0.90)

SAE heaped m³ (yd³)

Capacity m ³ (yd ³)		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)	●	●	■	●	■
0.70 (0.92)	0.60 (0.78)	990 (39.0)	1,110 (43.7)	540 (1,190)	●	■	▲	■	▲
0.89 (1.16)	0.77 (1.01)	1,220 (48.0)	1,340 (52.8)	610 (1,340)	■	▲	-	▲	-
⊕ 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 R160LC-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.

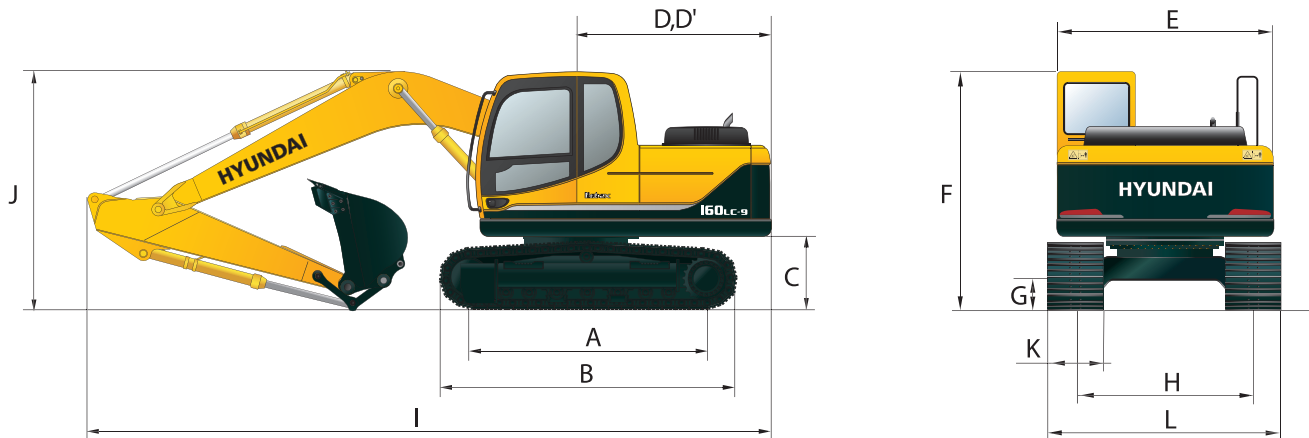
DIGGING FORCE R160LC-9A

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")	[]: Power Boost
	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]	
		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 R160LC-9A



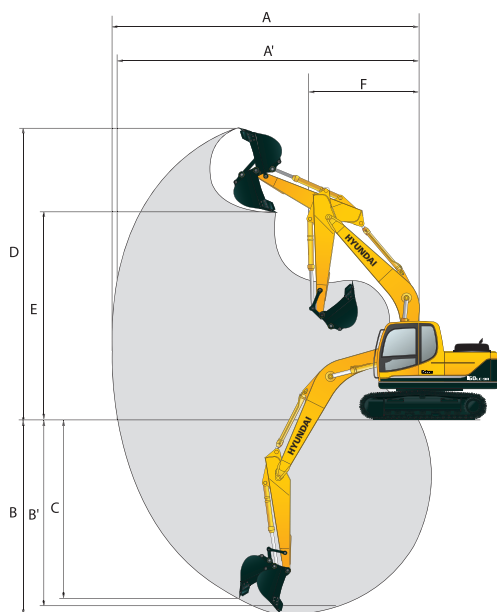
mm (ft · in)

mm (ft · in)

A Tumbler distance	3,170 (10' 5")	Boom length	5,100 (16' 9")		
B Overall length of crawler	3,960 (13' 0")	Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
C Ground clearance of counterweight	1,055 (3' 6")	I Overall length	8,660 (28' 5")	8,650 (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")	3,150 (10' 4")
D' Rear-end length	2,480 (8' 2")	K Track shoe width	500 (20")	600 (24")	700 (28")
E Overall width of upperstructure	2,475 (8' 1")	L Overall width	2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")
F Overall height of cab	2,980 (9' 9")				
G Min. ground clearance	460 (1' 6")				
H Track gauge	1,990 (6' 6")				

WORKING RANGES R160LC-9A

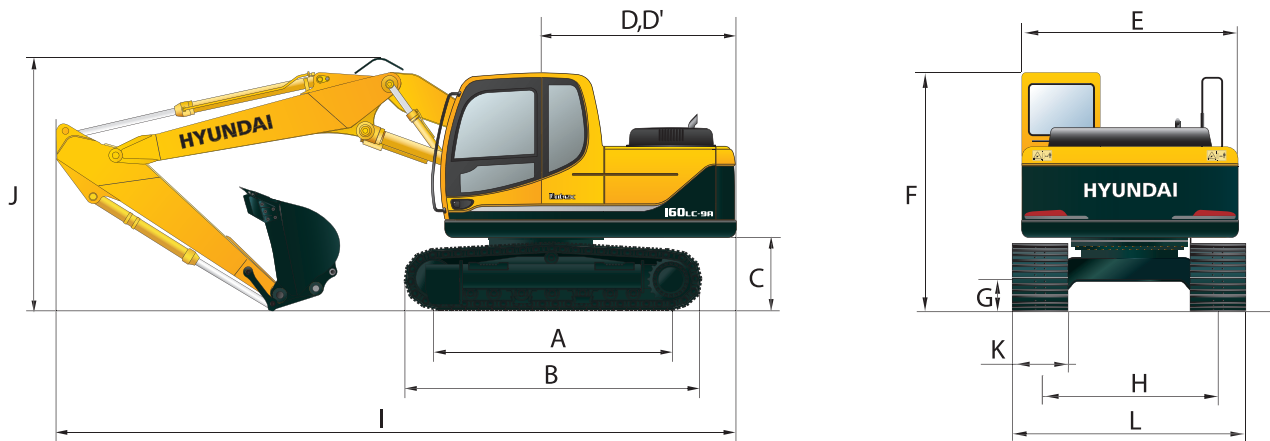
mm (ft · in)



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 R160LC-9A HYDRAULIC ADJUSTABLE BOOM



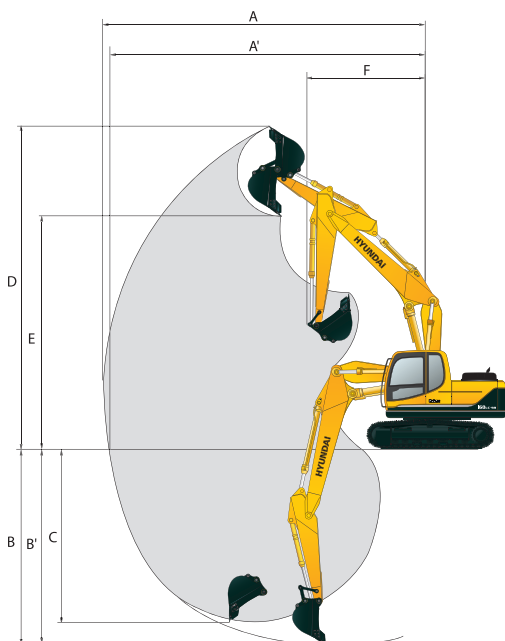
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A Tumbler distance	3,170 (10' 5")	Boom length	5,100 (16' 9")		
B Overall length of crawler	3,960 (13' 0")	Arm length	2,200 (7' 3")	2,600 (8' 6")	
C Ground clearance of counterweight	1,055 (3' 6")	I Overall length	8,610 (28' 3")		
D Tail swing radius	2,530 (8' 4")	J Overall height of boom	3,040 (9' 12")		
D' Rear-end length	2,480 (8' 2")	K Track shoe width	500 (20")	600 (24")	700 (28")
E Overall width of upperstructure	2,475 (8' 1")	L Overall width	2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")
F Overall height of cab	2,980 (9' 9")				
G Min. ground clearance	460 (1' 6")				
H Track gauge	1,990 (6' 6")				

WORKING RANGES R160LC-9A HYDRAULIC ADJUSTABLE BOOM

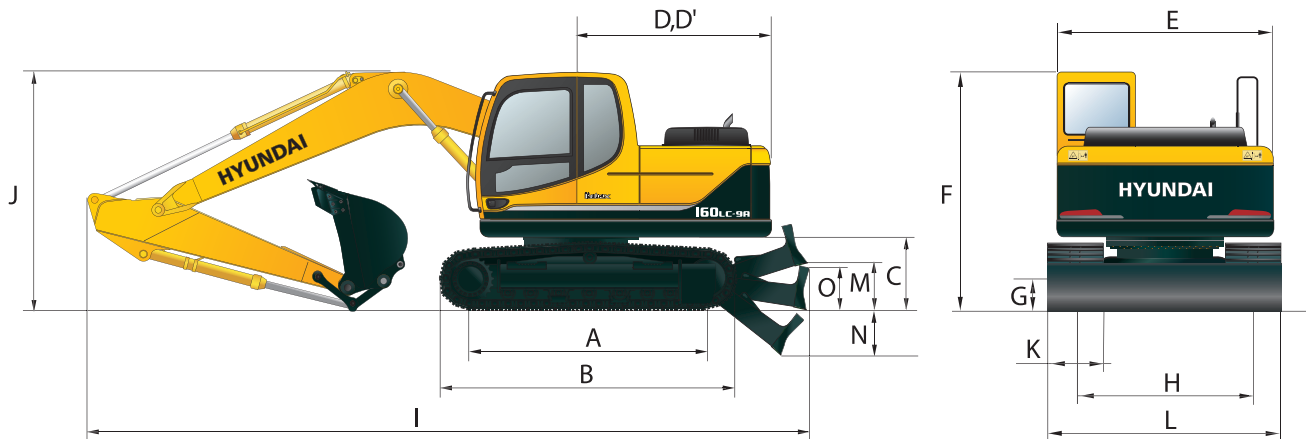
mm (ft · in)



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")	

Dimensions & Working Ranges

DIMENSIONS R160LCD-9A (DOZER TYPE)



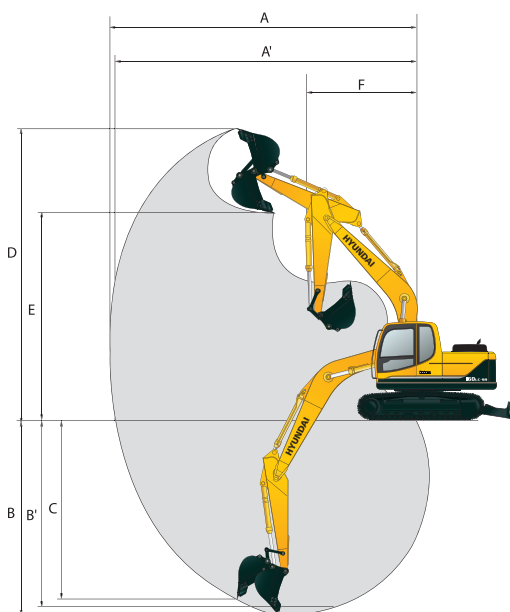
mm (ft · in)

mm (ft · in)

A Tumbler distance	3,170 (10' 5")	Boom length	5,100 (16' 9")		
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C Ground clearance of counterweight	1,055 (3' 6")	I Overall length	9,110 (29' 11")	9,100 (29' 10")	9,100 (29' 10")
D Tail swing radius	2,530 (8' 4")	J Overall height of boom	3,010 (9' 11")	2,990 (9' 10")	3,150 (10' 4")
D' Rear-end length	2,480 (8' 2")	K Track shoe width	500 (20")	600 (24")	700 (28")
E Overall width of upperstructure	2,475 (8' 1")	L Overall width	2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")
F Overall height of cab	2,980 (9' 9")				
G Min. ground clearance	460 (1' 6")				
H Track gauge	1,990 (6' 6")				
M Max. lifting height of dozer blade	615 (2' 0")				
N Max. depth of dozer blade	675 (2' 3")				
O Height of dozer blade	640 (2' 1")				

WORKING RANGES R160LCD-9A (DOZER TYPE)

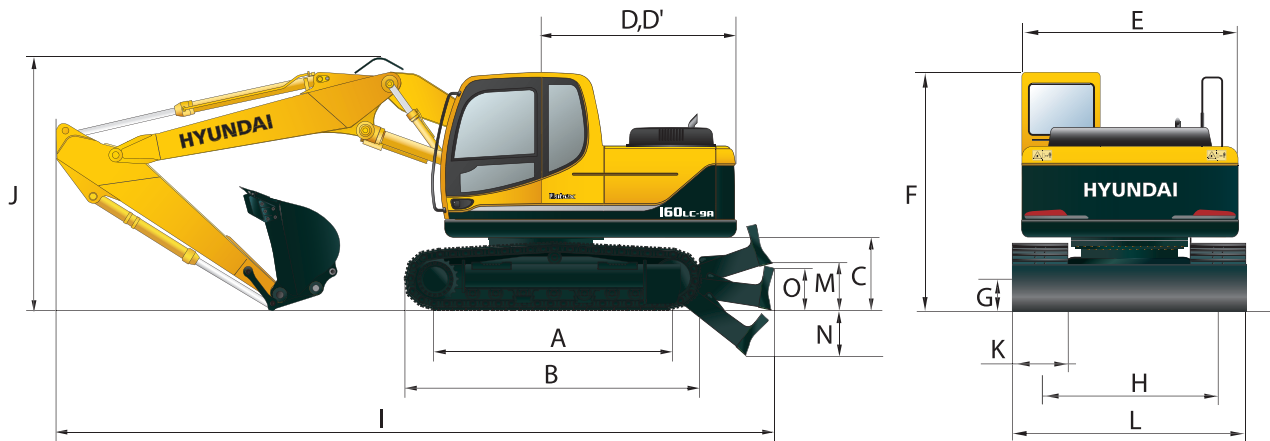
mm (ft · in)



Boom length	5,100 (16' 9")		
Arm length	2,200 (7' 3")	2,600 (8' 6")	3,100 (10' 2")
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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 R160LCD-9A HYDRAULIC ADJUSTABLE BOOM (DOZER TYPE)



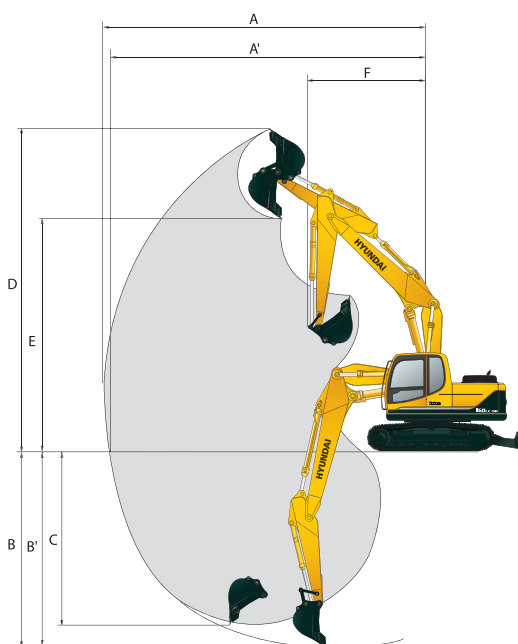
mm (ft · in)

mm (ft · in)

A Tumbler distance	3,090 (10' 2")	Boom length	5,100 (16' 9")		
B Overall length of crawler	3,820 (12' 6")	Arm length	2,200 (7' 3")	2,600 (8' 6")	
C Ground clearance of counterweight	930 (3' 1")	I Overall length	9,080 (29' 9")	9,080 (29' 9")	
D Tail swing radius	1,480 (4' 10")	J Overall height of boom	3,040 (9' 12")	3,060 (10' 0")	
D' Rear-end length	1,480 (4' 10")	K Track shoe width	500 (20")	600 (24")	700 (28")
E Overall width of upperstructure	2,500 (8' 2")	L Overall width	2,490 (8' 2")	2,590 (8' 6")	2,690 (8' 10")
F Overall height of cab	2,900 (9' 6")				
G Min. ground clearance	440 (1' 5")				
H Track gauge	2,000 (6' 7")				
M Max. lifting height of dozer blade	420 (1' 8")				
N Max. depth of dozer blade	430 (1' 6")				
O Height of dozer blade	575 (1' 8")				

WORKING RANGES R160LCD-9A HYDRAULIC ADJUSTABLE BOOM (DOZER TYPE)

mm (ft · in)













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A' Max. digging reach on ground	8,590 (28' 2")	8,950 (29' 4")	
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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













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 Rating over-front  Rating over-side or 360 degrees













Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach m (ft)
												
7.5 m (25.0 ft)	kg									*3770	3660	5.60
	lb									*8310	8070	(18.4)
6.0 m (20.0 ft)	kg									*3690	2460	6.98
	lb									*8140	5420	(22.9)
4.5 m (15.0 ft)	kg					*4590	*4590	*4130	3120	3240	1980	7.76
	lb					*10120	*10120	*9110	6880	7140	4370	(25.5)
3.0 m (10.0 ft)	kg			*9120	8860	*5810	4720	*4620	2990	2930	1770	8.15
	lb			*20110	19530	*12810	10410	*10190	6590	6460	3900	(26.7)
1.5 m (5.0 ft)	kg					*7050	4360	4680	2830	2850	1700	8.20
	lb					*15540	9610	10320	6240	6280	3750	(26.9)
Ground Line	kg			*7100	*7100	7170	4150	4550	2710	2980	1770	7.94
	lb			*15650	*15650	15810	9150	10030	5970	6570	3900	(26.0)
-1.5 m (-5.0 ft)	kg	*7010	*7010	*11130	7780	7100	4090	4500	2670	3390	2030	7.31
	lb	*15450	*15450	*24540	17150	15650	9020	9920	5890	7470	4480	(24.0)
-3.0 m (-10.0 ft)	kg	*11210	*11210	*9650	7930	*6690	4150			*3780	2700	6.19
	lb	*24710	*24710	*21270	17480	*14750	9150			*8330	5950	(20.3)
-4.5 m (-15.0 ft)	kg			*6300	*6300							
	lb			*13890	*13890							

Boom : 5.10 m (16'9") / Arm : 2.60 m (8'6") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
														
7.5 m (25.0 ft)	kg											*3410	3190	6.11
	lb											*7520	7030	(20.0)
6.0 m (20.0 ft)	kg							*3040	*3040			*3380	2240	7.37
	lb							*6700	*6700			*7450	4940	(24.2)
4.5 m (15.0 ft)	kg							*3790	3150			3000	1820	8.11
	lb							*8360	6940			6610	4010	(26.6)
3.0 m (10.0 ft)	kg			*7930	*7930	*5330	4770	*4320	2990	*2830	2020	2730	1630	8.48
	lb			*17480	*17480	*11750	10520	*9520	6590	*6240	4450	6020	3590	(27.8)
1.5 m (5.0 ft)	kg			*8090	8060	*6680	4380	4670	2820	3250	1940	2650	1560	8.53
	lb			*17840	17770	*14730	9660	10300	6220	7170	4280	5840	3440	(28.0)
Ground Line	kg			*7880	7700	7150	4130	4520	2680	3190	1880	2750	1620	8.28
	lb			*17370	16980	15760	9110	9960	5910	7030	4140	6060	3570	(27.2)
-1.5 m (-5.0 ft)	kg	*6690	*6690	*10670	7660	7030	4020	4440	2610			3090	1830	7.69
	lb	*14750	*14750	*23520	16890	15500	8860	9790	5750			6810	4030	(25.2)
-3.0 m (-10.0 ft)	kg	*9970	*9970	*10310	7780	*6990	4050	4470	2640			*3770	2350	6.64
	lb	*21980	*21980	*22730	17150	*15410	8930	9850	5820			*8310	5180	(21.8)
-4.5 m (-15.0 ft)	kg			*7500	*7500	*4980	4230							
	lb			*16530	*16530	*10980	9330							

Boom : 5.10 m (16'9") / Arm : 3.10 m (11'1") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
														
7.5 m (25.0 ft)	kg											*3030	2700	6.73
	lb											*6680	5950	(22.1)
6.0 m (20.0 ft)	kg							*2890	*2890			*3050	1980	7.88
	lb							*6370	*6370			*6720	4370	(25.9)
4.5 m (15.0 ft)	kg							*3370	3180	*2150	2080	2720	1630	8.57
	lb							*7430	7010	*4740	4590	6000	3590	(28.1)
3.0 m (10.0 ft)	kg					*4730	*4730	*3950	3010	*3110	2020	2490	1460	8.91
	lb					*10430	*10430	*8710	6640	*6860	4450	5490	3220	(29.2)
1.5 m (5.0 ft)	kg			*10240	8300	*6180	4430	*4640	2820	3240	1920	2420	1400	8.96
	lb			*22580	18300	*13620	9770	*10230	6220	7140	4230	5340	3090	(29.4)
Ground Line	kg			*8650	7710	7150	4120	4500	2660	3150	1840	2490	1440	8.73
	lb			*19070	17000	15760	9080	9920	5860	6940	4060	5490	3170	(28.6)
-1.5 m (-5.0 ft)	kg	*6290	*6290	*10300	7570	6980	3970	4390	2560	3110	1800	2760	1600	8.17
	lb	*13870	*13870	*22710	16690	15390	8750	9680	5640	6860	3970	6080	3530	(26.8)
-3.0 m (-10.0 ft)	kg	*8930	*8930	*10930	7630	6960	3960	4380	2550			3390	2000	7.21
	lb	*19690	*19690	*24100	16820	15340	8730	9660	5620			7470	4410	(23.7)
-4.5 m (-15.0 ft)	kg	*12410	*12410	*8670	7850	*5820	4070					*3390	3110	5.59
	lb	*27360	*27360	*19110	17310	*12830	8970					*7470	6860	(18.3)













- 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













R160LC-9A HYDRAULIC ADJUSTABLE BOOM

 Rating over-front  Rating over-side or 360 degrees

Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
													m (ft)	
6.0 m (20.0 ft)	kg											*3750	2390	7.06
	lb											*8270	5270	(23.2)
4.5 m (15.0 ft)	kg						*4170	3120				3190	1920	7.83
	lb						*9190	6880				7030	4230	(25.7)
3.0 m (10.0 ft)	kg				*5860	4710	*4630	2970				2890	1710	8.21
	lb				*12920	10380	*10210	6550				6370	3770	(26.9)
1.5 m (5.0 ft)	kg				*7010	4330	4700	2800	3270	1930		2820	1650	8.27
	lb				*15450	9550	10360	6170	7210	4250		6220	3640	(27.1)
Ground Line	kg			*6200	*6200	7180	4100	4560	2680			2950	1730	8.01
	lb			*13670	*13670	15830	9040	10050	5910			6500	3810	(26.3)
-1.5 m (-5.0 ft)	kg	*6200	*6200	*10330	7710	7110	4040	4510	2640			3360	1990	7.39
	lb	*13670	*13670	*22770	17000	15670	8910	9940	5820			7410	4390	(24.2)
-3.0 m (-10.0 ft)	kg			*9150	7900	*6410	4120					*3300	2650	6.28
	lb			*20170	17420	*14130	9080					*7280	5840	(20.6)

Boom : 5.10 m (16'9") / Arm : 2.60 m (8'6") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
													m (ft)	
6.0 m (20.0 ft)	kg											*3450	2160	7.48
	lb											*7610	4760	(24.5)
4.5 m (15.0 ft)	kg											2950	1760	8.20
	lb											6500	3880	(26.9)
3.0 m (10.0 ft)	kg						*4350	2980	*3250	2000		2680	1570	8.57
	lb						*9590	6570	*7170	4410		5910	3460	(28.1)
1.5 m (5.0 ft)	kg			*6980	*6980	*6660	4350	4690	2790	3260	1920	2610	1510	8.62
	lb			*15390	*15390	*14680	9590	10340	6150	7190	4230	5750	3330	(28.3)
Ground Line	kg			*7040	*7040	7160	4080	4530	2650	3190	1850	2710	1570	8.37
	lb			*15520	*15520	15790	8990	9990	5840	7030	4080	5970	3460	(27.5)
-1.5 m (-5.0 ft)	kg	*6030	*6030	*9960	7580	7040	3970	4450	2580			3050	1780	7.78
	lb	*13290	*13290	*21960	16710	15520	8750	9810	5690			6720	3920	(25.5)
-3.0 m (-10.0 ft)	kg	*9490	*9490	*9860	7730	*6740	4010	4490	2610			*3350	2290	6.76
	lb	*20920	*20920	*21740	17040	*14860	8840	9900	5750			*7390	5050	(22.2)
-4.5 m (-15.0 ft)	kg			*6840	*6840	*4560	4220							
	lb			*15080	*15080	*10050	9300							











- 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













R160LCD-9A

 Rating over-front  Rating over-side or 360 degrees













Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		Capacity		Reach m (ft)
												
7.5 m (25.0 ft)	kg									*3770	*3770	5.60
	lb									*8310	*8310	(18.4)
6.0 m (20.0 ft)	kg									*3690	2600	6.98
	lb									*8140	5730	(22.9)
4.5 m (15.0 ft)	kg					*4590	*4590	*4130	3290	3590	2110	7.76
	lb					*10120	*10120	*9110	7250	7910	4650	(25.5)
3.0 m (10.0 ft)	kg			*9120	*9120	*5810	4950	*4620	3150	3260	1880	8.15
	lb			*20110	*20110	*12810	10910	*10190	6940	7190	4140	(26.7)
1.5 m (5.0 ft)	kg					*7050	4600	5170	2990	3180	1810	8.20
	lb					*15540	10140	11400	6590	7010	3990	(26.9)
Ground Line	kg			*7100	*7100	*7710	4390	5040	2880	3320	1890	7.94
	lb			*15650	*15650	*17000	9680	11110	6350	7320	4170	(26.0)
-1.5 m (-5.0 ft)	kg	*7010	*7010	*11130	8200	*7620	4320	4990	2830	3770	2160	7.31
	lb	*15450	*15450	*24540	18080	*16800	9520	11000	6240	8310	4760	(24.0)
-3.0 m (-10.0 ft)	kg	*11210	*11210	*9650	8360	*6690	4380			*3780	2860	6.19
	lb	*24710	*24710	*21270	18430	*14750	9660			*8330	6310	(20.3)
-4.5 m (-15.0 ft)	kg			*6300	*6300							
	lb			*13890	*13890							

Boom : 5.10 m (16'9") / Arm : 2.60 m (8'6") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
														
7.5 m (25.0 ft)	kg											*3410	3350	6.11
	lb											*7520	7390	(20.0)
6.0 m (20.0 ft)	kg						*3040	*3040				*3380	2370	7.37
	lb						*6700	*6700				*7450	5220	(24.2)
4.5 m (15.0 ft)	kg						*3790	3310				3340	1940	8.11
	lb						*8360	7300				7360	4280	(26.6)
3.0 m (10.0 ft)	kg			*7930	*7930	*5330	5000	*4320	3160	*2830	2140	3040	1730	8.48
	lb			*17480	*17480	*11750	11020	*9520	6970	*6240	4720	6700	3810	(27.8)
1.5 m (5.0 ft)	kg			*8090	*8090	*6680	4620	*4950	2980	3620	2070	2960	1670	8.53
	lb			*17840	*17840	*14730	10190	*10910	6570	7980	4560	6530	3680	(28.0)
Ground Line	kg			*7880	*7880	*7520	4360	5010	2840	*3490	2010	3080	1730	8.28
	lb			*17370	*17370	*16580	9610	11050	6260	*7690	4430	6790	3810	(27.2)
-1.5 m (-5.0 ft)	kg	*6690	*6690	*10670	8080	*7650	4260	4930	2780			3450	1950	7.69
	lb	*14750	*14750	*23520	17810	*16870	9390	10870	6130			7610	4300	(25.2)
-3.0 m (-10.0 ft)	kg	*9970	*9970	*10310	8200	*6990	4280	*4900	2800			*3770	2500	6.64
	lb	*21980	*21980	*22730	18080	*15410	9440	*10800	6170			*8310	5510	(21.8)
-4.5 m (-15.0 ft)	kg			*7500	*7500	*4980	4460							
	lb			*16530	*16530	*10980	9830							

Boom : 5.10 m (16'9") / Arm : 3.10 m (11'1") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach m (ft)
														
7.5 m (25.0 ft)	kg											*3030	2850	6.73
	lb											*6680	6280	(22.1)
6.0 m (20.0 ft)	kg							*2890	*2890			*3050	2090	7.88
	lb							*6370	*6370			*6720	4610	(25.9)
4.5 m (15.0 ft)	kg							*3370	3340	*2150	*2150	3040	1740	8.57
	lb							*7430	7360	*4740	*4740	6700	3840	(28.1)
3.0 m (10.0 ft)	kg					*4730	*4730	*3950	3180	*3110	2140	2790	1560	8.91
	lb					*10430	*10430	*8710	7010	*6860	4720	6150	3440	(29.2)
1.5 m (5.0 ft)	kg			*10240	8720	*6180	4670	*4640	2980	3610	2050	2710	1500	8.96
	lb			*22580	19220	*13620	10300	*10230	6570	7960	4520	5970	3310	(29.4)
Ground Line	kg			*8650	8130	*7240	4360	4990	2820	3520	1970	2800	1540	8.73
	lb			*19070	17920	*15960	9610	11000	6220	7760	4340	6170	3400	(28.6)
-1.5 m (-5.0 ft)	kg	*6290	*6290	*10300	7990	*7610	4210	4880	2730	*3250	1930	3090	1720	8.17
	lb	*13870	*13870	*22710	17610	*16780	9280	10760	6020	*7170	4250	6810	3790	(26.8)
-3.0 m (-10.0 ft)	kg	*8930	*8930	*10930	8050	*7230	4190	4870	2710			*3660	2130	7.21
	lb	*19690	*19690	*24100	17750	*15940	9240	10740	5970			*8070	4700	(23.7)
-4.5 m (-15.0 ft)	kg	*12410	*12410	*8670	8270	*5820	4310					*3390	3290	5.59
	lb	*27360	*27360	*19110	18230	*12830	9500					*7470	7250	(18.3)













- 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













R160LCD-9A HYDRAULIC ADJUSTABLE BOOM

 Rating over-front  Rating over-side or 360 degrees

Boom : 5.10 m (16'9") / Arm : 2.20 m (7'3") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
													m (ft)	
6.0 m (20.0 ft)	kg											*3750	2520	7.06
	lb											*8270	5560	(23.2)
4.5 m (15.0 ft)	kg						*4170	3280				3540	2040	7.83
	lb						*9190	7230				7800	4500	(25.7)
3.0 m (10.0 ft)	kg				*5860	4950	*4630	3130				3220	1830	8.21
	lb				*12920	10910	*10210	6900				7100	4030	(26.9)
1.5 m (5.0 ft)	kg				*7010	4560	*5140	2970	*3450	2060		3140	1760	8.27
	lb				*15450	10050	*11330	6550	*7610	4540		6920	3880	(27.1)
Ground Line	kg			*6200	*6200	*7590	4340	5050	2840			3290	1840	8.01
	lb			*13670	*13670	*16730	9570	11130	6260			7250	4060	(26.3)
-1.5 m (-5.0 ft)	kg	*6200	*6200	*10330	8130	*7430	4280	5000	2800			*3710	2120	7.39
	lb	*13670	*13670	*22770	17920	*16380	9440	11020	6170			*8180	4670	(24.2)
-3.0 m (-10.0 ft)	kg			*9150	8320	*6410	4350					*3300	2800	6.28
	lb			*20170	18340	*14130	9590					*7280	6170	(20.6)

Boom : 5.10 m (16'9") / Arm : 2.60 m (8'6") / Bucket : 0.70 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 (5.0 ft)		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		Capacity		Reach	
													m (ft)	
6.0 m (20.0 ft)	kg											*3450	2280	7.48
	lb											*7610	5030	(24.5)
4.5 m (15.0 ft)	kg											3280	1870	8.20
	lb											7230	4120	(26.9)
3.0 m (10.0 ft)	kg							*4350	3150	*3250	2120	2990	1680	8.57
	lb							*9590	6940	*7170	4670	6590	3700	(28.1)
1.5 m (5.0 ft)	kg			*6980	*6980	*6660	4590	*4920	2960	3630	2040	2920	1620	8.62
	lb			*15390	*15390	*14680	10120	*10850	6530	8000	4500	6440	3570	(28.3)
Ground Line	kg			*7040	*7040	*7420	4310	5020	2810	3560	1980	3030	1680	8.37
	lb			*15520	*15520	*16360	9500	11070	6190	7850	4370	6680	3700	(27.5)
-1.5 m (-5.0 ft)	kg	*6030	*6030	*9960	8010	*7480	4210	4940	2740			3400	1900	7.78
	lb	*13290	*13290	*21960	17660	*16490	9280	10890	6040			7500	4190	(25.5)
-3.0 m (-10.0 ft)	kg	*9490	*9490	*9860	8150	*6740	4250	*4700	2780			*3350	2430	6.76
	lb	*20920	*20920	*21740	17970	*14860	9370	*10360	6130			*7390	5360	(22.2)
-4.5 m (-15.0 ft)	kg			*6840	*6840	*4560	4460							
	lb			*15080	*15080	*10050	9830							

- 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 R160LC-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
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
Electric transducer
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)
Rear view camera
Smart key + Start button

OPTIONAL EQUIPMENT R160LC-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 boom
Arm
2.2 m; 7' 3"
3.1 m; 10' 2"
Cabin FOPS/FOG (ISO/DIS 10262 Level II)
FOPS (Falling Object Protective Structure)
FOG (Falling Object Guard)
Cabin guard-front
Wire net
Fine net
Cabin roof-steel cover
Cabin lights
Track shoes
Triple grousers shoe (500 mm; 20")
Triple grousers shoe (700 mm; 28")
Dozer blade - R160LCD-9A
640 mm (2' 1") x 2,490 mm (8' 2")
640 mm (2' 1") x 2,590 mm (8' 6")
Additional lower frame - reinforced under cover
Tool kit
Seat
Adjustable air suspension seat with heater
Pattern change valve (2 patterns)
Quick coupler piping

- * 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

