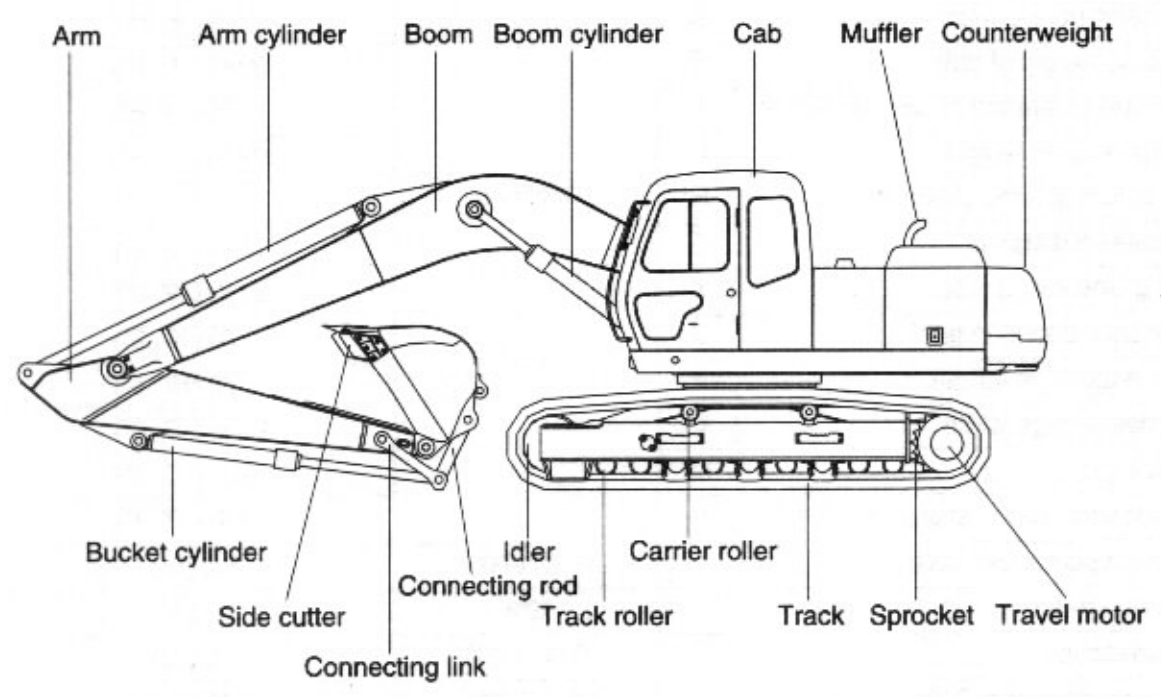
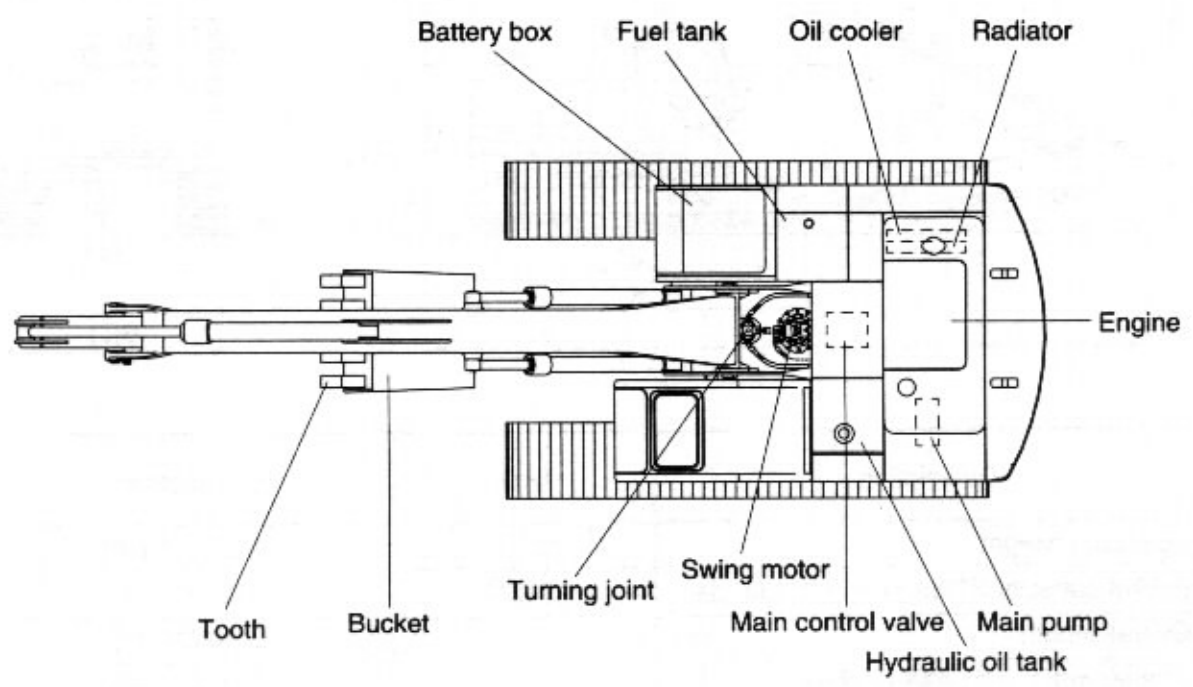


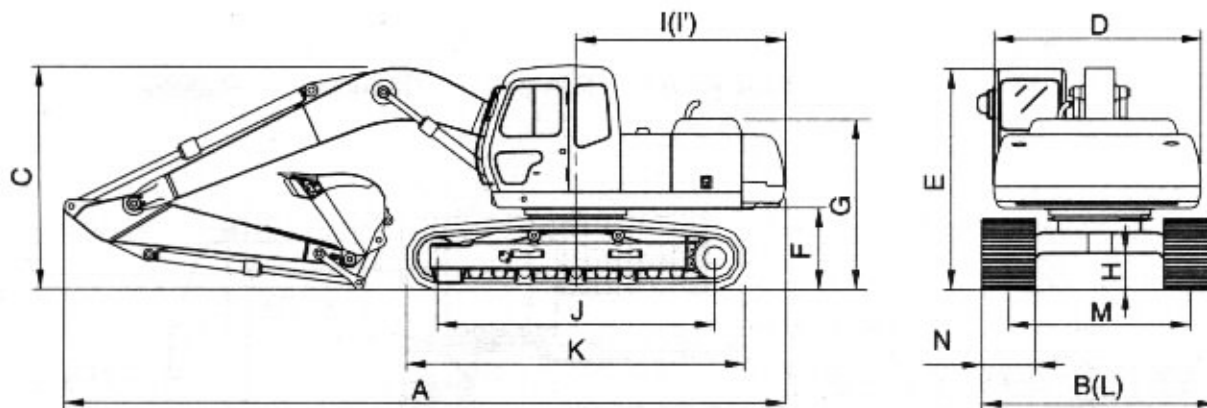
GROUP 2 SPECIFICATIONS

1. MAJOR COMPONENT



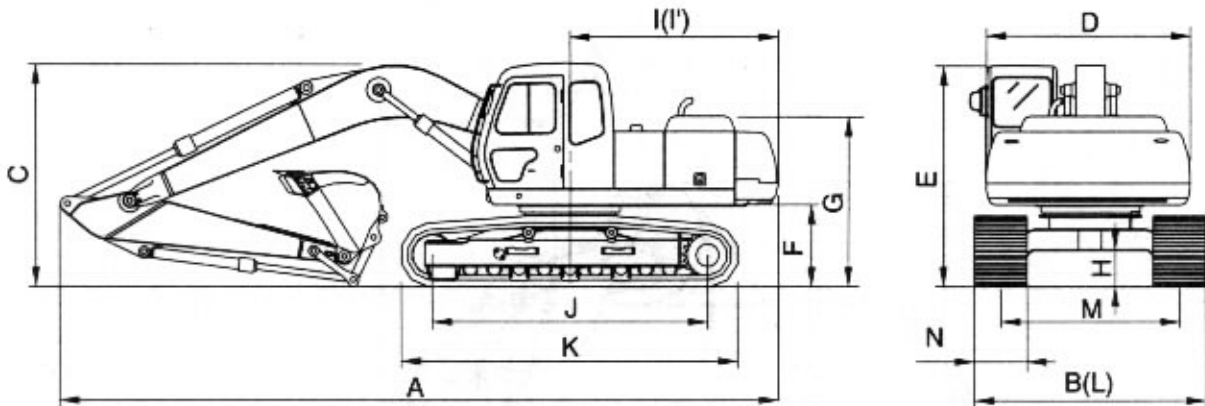
2. SPECIFICATION

1) ROBEX 210-3



Description		Unit	Specification
Operating weight		kg (lb)	20620 (45460)
Bucket capacity(PCSA heaped) ,standard		m ³ (yd ³)	0.87 (1.14)
Overall length	A	mm(ft-in)	9460 (31' 0")
Overall width, with 700mm shoe	B		2900 (9' 6")
Overall height	C		2970 (9' 9")
Superstructure width	D		2720 (8' 11")
Overall height of cab	E		2940 (9' 8")
Ground clearance of counterweight	F		1070 (3' 6")
Engine cover height	G		2230 (7' 4")
Minimum ground clearance	H		470 (1' 7")
Rear-end distance	I		2740 (9' 0")
Rear-end swing radius	I'		2750 (9' 0")
Distance between tumblers	J		3270 (10' 9")
Undercarriage length	K		4070 (13' 4")
Undercarriage width	L		2900 (9' 6")
Track gauge	M		2200 (7' 3")
Track shoe width, standard	N		700 (2' 4")
Travel speed (low/high)		km/hr(mph)	3.1 / 5.2 (1.9 / 3.2)
Swing speed		rpm	12.5
Gradeability		degree (%)	35 (70)
Ground pressure(700mm shoe)		kg/cm ² (psi)	0.41 (5.83)

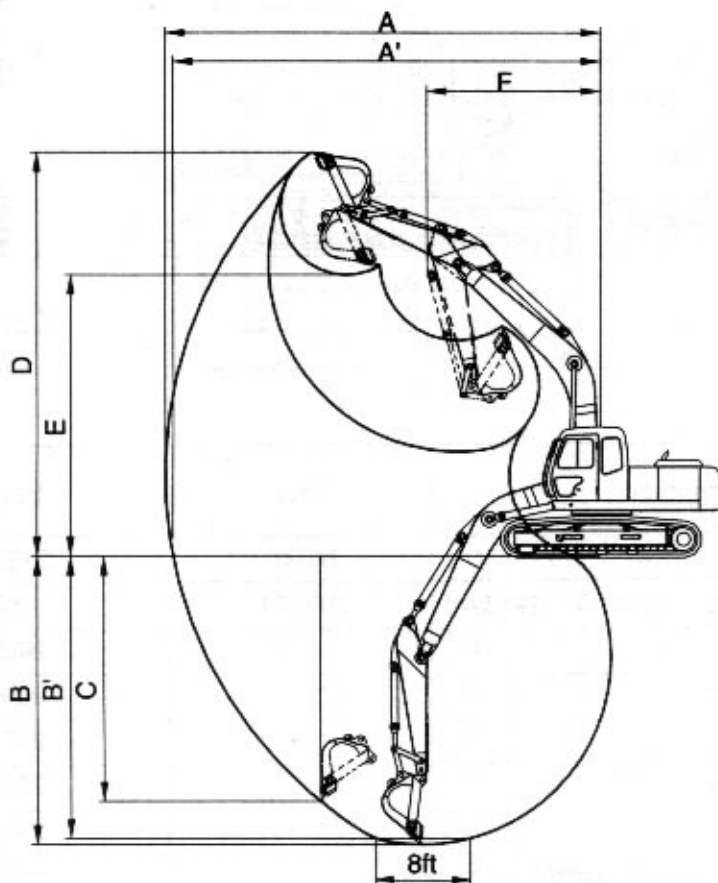
2) ROBEX 210LC-3



Description		Unit	Specification
Operating weight		kg (lb)	21300 (46960)
Bucket capacity(PCSA heaped) ,standard		m ³ (yd ³)	0.87 (1.14)
Overall length	A	mm(ft-in)	9460 (31' 0")
Overall width, with 700mm shoe	B		3090 (10' 2")
Overall height	C		2970 (9' 9")
Superstructure width	D		2720 (8' 11")
Overall height of cab	E		2940 (9' 8")
Ground clearance of counterweight	F		1070 (3' 6")
Engine cover height	G		2230 (7' 4")
Minimum ground clearance	H		470 (1' 7")
Rear-end distance	I		2740 (9' 0")
Rear-end swing radius	I'		2750 (9' 0")
Distance between tumblers	J		3640 (11' 11")
Undercarriage length	K		4440 (14' 7")
Undercarriage width	L		3090 (10' 2")
Track gauge	M		2390 (7' 10")
Track shoe width, standard	N		700 (2' 4")
Travel speed (low/high)		km/ hr(mph)	3.1 / 5.2 (1.9 / 3.2)
Swing speed		rpm	12.5
Gradeability		degree (%)	35 (70)
Ground pressure(700mm shoe)		kg/ cm ² (psi)	0.39 (5.55)

3. WORKING RANGE

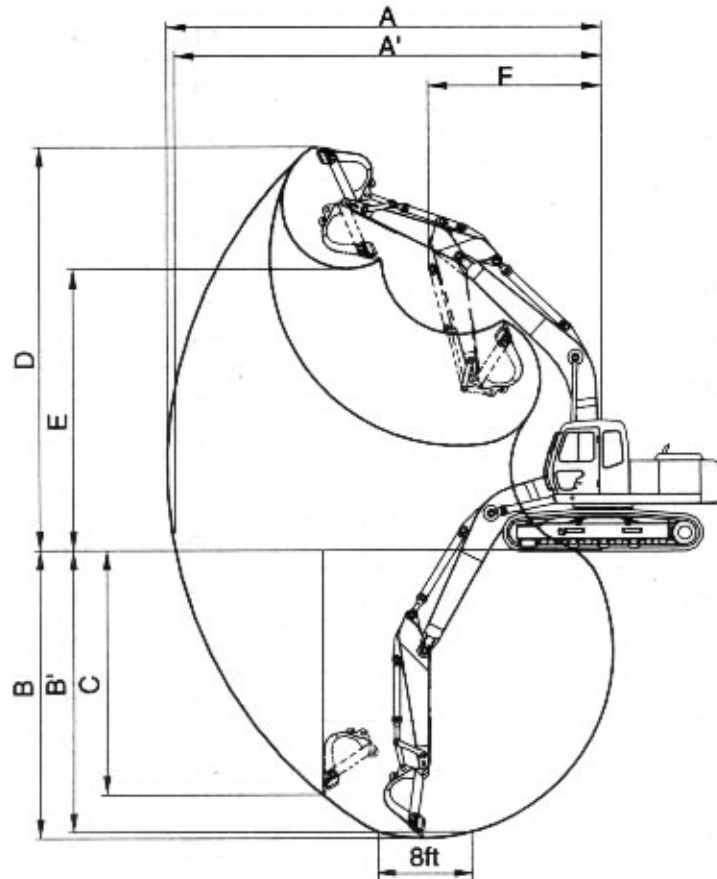
1) STANDARD BOOM (5.68m, 18' 8")



Description		2.0m(6' 7")Arm	2.40m(7' 10")Arm	2.92m(9' 7")Arm	3.90m(12' 9")Arm
Max. digging reach	A	9120 mm (29' 11")	9470 mm (31' 1")	9920 mm (32' 7")	10650 mm (35' 7")
Max. digging reach on ground	A'	8940 mm (29' 4")	9300 mm (30' 6")	9720 mm (31' 11")	10700 mm (35' 2")
Max. digging depth	B	5820 mm (19' 1")	6220 mm (20' 5")	6740 mm (22' 1")	7710 mm (25' 4")
Max. digging depth (8ft level)	B'	5580 mm (18' 4")	6010 mm (19' 9")	6530 mm (21' 3")	7570 mm (24' 10")
Max. vertical wall digging depth	C	5100 mm (16' 9")	5520 mm (18' 1")	6040 mm (19' 10")	7010 mm (23' 0")
Max. digging height	D	9080 mm (29' 10")	9250 mm (30' 4")	9400 mm (30' 10")	9900 mm (32' 6")
Max. dumping height	E	6300 mm (20' 8")	6460 mm (21' 3")	6620 mm (21' 9")	7120 mm (23' 5")
Max. swing radius	F	3650 mm (12' 0")	3790 mm (12' 5")	3580 mm (11' 9")	3610 mm (11' 10")
Bucket digging force		114.7 [125.5] KN	114.7 [125.5] KN	114.7 [125.5] KN	114.7 [125.5] KN
		11700 [12800] kgf	11700 [12800] kgf	11700 [12800] kgf	11700 [12800] kgf
		25790 [28220] lbf	25790 [28220] lbf	25790 [28220] lbf	25790 [28220] lbf
Arm digging force		128.0 [140.0] KN	114.1 [124.7] KN	93.2 [102.0] KN	76.2 [83.2] KN
		13050 [14270] kgf	11630 [12720] kgf	9500 [10400] kgf	7770 [8490] kgf
		28770 [31460] lbf	25640 [28040] lbf	20940 [22930] lbf	17130 [18720] lbf

* [] : Power boost

2) OPTION BOOM (5.2m, 17' 7")



Description		2.0m(6' 7") Arm	2.40m(7' 10") Arm
Max. digging reach	A	8630mm (28' 4")	8950mm (29' 4")
Max. digging reach on ground	A'	8440mm (27' 8")	8770mm (28' 9")
Max. digging depth	B	5470mm (17' 11")	6870mm (19' 3")
Max. digging depth (8ft level)	B'	5230mm (17' 2")	5640mm (18' 6")
Max. vertical wall digging depth	C	4700mm (15' 5")	4980mm (16' 4")
Max. digging height	D	8620mm (28' 3")	8700mm (28' 7")
Max. dumping height	E	5850mm (19' 2")	5940mm (19' 6")
Max. swing radius	F	3500mm (11' 6")	3410mm (11' 2")
Bucket digging force		114.7 [125.5] KN	114.7 [125.5] KN
		11700 [12800] kgf	11700 [12800] kgf
		25790 [28220] lbf	25790 [28220] lbf
Arm digging force		128.0 [140.0] KN	114.1 [124.7] KN
		13050 [14270] kgf	11630 [12720] kgf
		28770 [31460] lbf	25640 [28040] lbf

※ [] : Power boost

4. WEIGHT













Item	R210-3		R210LC-3	
	kg	lb	kg	lb
Upperstructure assembly	8780	19360	←	
Main frame weld assembly	2600	5730	←	
Engine assembly	423	933	←	
Main pump assembly	120	265	←	
Main control valve assembly	193	425	←	
Swing motor assembly	190	420	←	
Hydraulic oil tank assembly	240	530	←	
Fuel tank assembly	130	290	←	
Counterweight	3800	8380	←	
Cab assembly	275	610	←	
Undercarriage assembly	8090	17840	8350	18400
Track frame weld assembly	2600	5730	2870	6330
Swing bearing	260	570	←	
Travel motor assembly	305	670	←	
Turning joint	50	110	←	
Track recoil spring and idler	270	595	←	
Idler	168	370	←	
Carrier roller	21	46	←	
Track roller	38	84	←	
Track-chain assembly (standard triple grouser shoe)	1520	3350	1580	3490
Front attachment assembly (5.68 m boom, 2.92 m arm, 0.87 m ³ (PCSA heaped) bucket)	3700	8160	←	
5.68 m boom assembly	1310	2890	←	
2.92 m arm assembly	680	1500	←	
0.87 m ³ (PCSA heaped) bucket	655	1440	←	
Boom cylinder assembly	175	386	←	
Arm cylinder assembly	285	628	←	
Bucket cylinder assembly	140	309	←	
Bucket control rod assembly	73	161	←	

5. LIFTING CAPACITIES

1) ROBEX 210-3

(1) 5.68m(18' 8") boom, 2.92m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

-  : Rating over-front
-  : Rating over-side or 360 degree

Load point height		Load radius										At max. reach			
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach m(ft)	
															
7.5m (25' 0")	kg lb												*3110 *6860	*3110 *6860	7.63 (25.0)
6.0m (20' 0")	kg lb												*3210 *7080	2550 5620	8.63 (28.3)
4.5m (15' 0")	kg lb							*3840 *8470	*3840 *8470	*3640 *8020	3150 6940	3290 7250	2190 4830	9.23 (30.3)	
3.0m (10' 0")	kg lb			*9460 *20860	*9460 *20860	*5880 *12960	*5880 *12960	*4600 *10140	4400 9700	*4010 *8840	3030 6680	3060 6750	2010 4430	9.51 (31.2)	
1.5m (5' 0")	kg lb			*7210 *15900	*7210 *15900	*7500 *16530	6370 14040	*5430 *11970	4120 9080	4370 9630	2890 6370	3000 6610	1960 4320	9.52 (31.2)	
Ground Line	kg lb			*8330 *18360	*8330 *18360	*8550 *18850	6030 13290	6020 13270	3920 8640	4260 9390	2790 6150	3110 6860	2020 4450	9.25 (30.3)	
-1.5m (-5' 0")	kg lb	*7880 *17370	*7880 *17370	*11290 *24890	*11290 *24890	*8890 *19600	5900 13010	5910 13030	3820 8420	4200 9260	2730 6020	3430 7560	2240 4940	8.68 (28.5)	
-3.0m (-10' 0")	kg lb	*11070 *24410	*11070 *24410	*12760 *28130	11860 26150	*8580 *18920	5930 13070	5920 13050	3820 8420			4160 9170	2740 6040	7.71 (25.3)	
-4.5m (-15' 0")	kg lb			*10730 *23660	*10730 *23660	*7390 *16290	6110 13470					*4230 *9330	4050 8930	6.13 (20.1)	

- Note
1. Lifting capacity are based on SAE J1097, ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of 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 load limited by hydraulic capacity.

(2) 5.68m(18' 8") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius								At max. reach		
		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
												m(ft)
7.5m (25' 0")	kg lb									*3750 *8270	*3750 *8270	6.60 (21.7)
6.0m (20' 0")	kg lb					*4200 *9260	*4200 *9260			*3800 *8380	3040 6700	7.75 (25.4)
4.5m (15' 0")	kg lb			*5460 *12040	*5460 *12040	*4600 *10140	4530 9990			*3910 *8620	2560 5640	8.42 (27.6)
3.0m (10' 0")	kg lb			*7070 *15590	6700 14770	*5300 *11680	4310 9500	*4540 2990	2990 6590	3950 8710	2340 5160	8.74 (28.7)
1.5m (5' 0")	kg lb			*8450 *18630	6260 13800	*6000 *13230	4100 9040	*4860 *10710	2900 6390	3900 8600	2290 5050	8.75 (28.7)
Ground Line	kg lb			*9030 *19910	6070 13380	*6460 *14240	3960 8730	4860 10710	2840 6260	4090 9020	2400 5290	8.46 (27.8)
-1.5m (-5' 0")	kg lb	*12160 *26810	12140 26760	*8920 *19670	6060 13360	*6490 *14310	3930 8660			*4530 *9990	2740 6040	7.81 (25.6)
-3.0m (-10' 0")	kg lb	*11410 *25150	*11410 *25150	*8110 *17880	6170 13600	*5820 *12830	4010 8840			*4500 *9920	3560 7850	6.69 (21.9)

(3) 5.68m(18' 8") boom, 2.40m(7' 10") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
														m(ft)
7.5m (25' 0")	kg lb											*3420 *7540	*3420 *7540	7.05 (23.1)
6.0m (20' 0")	kg lb						*3780 *8330	*3780 *8330				*3490 *7690	2790 6150	8.13 (26.7)
4.5m (15' 0")	kg lb						*4230 *9330	*4230 *9330	*3970 *8750	3080 6790		*3620 *7980	2370 5220	8.77 (28.8)
3.0m (10' 0")	kg lb				*6510 *14350	*6510 *14350	*4960 *10930	4320 9520	*4270 *9410	2980 6570		3700 8160	2170 4780	9.07 (29.8)
1.5m (5' 0")	kg lb				*8010 *17660	6270 13820	*5720 *12610	4080 8990	*4640 *10230	2870 6330		3640 8020	2110 4650	9.08 (29.8)
Ground Line	kg lb				*8820 *19440	6020 13270	*6270 *13820	3910 8620	4810 10600	2780 6130		3800 8380	2200 4850	8.80 (28.9)
-1.5m (-5' 0")	kg lb			*11770 *25950	*11770 *25950	*8920 *19670	5960 13140	*6450 *14220	3850 8490			4260 9390	2480 5470	8.18 (26.8)
-3.0m (-10' 0")	kg lb	*12820 *28260	*12820 *28260	*12080 *26630	*12080 *26630	*8350 *18410	6030 13290	*6050 *13340	3890 8580			*4410 *9720	3140 6920	7.14 (23.4)
-4.5m (-15' 0")	kg lb			*9590 *21140	*9590 *21140	*6680 *14730	6270 13820							













(4) 5.68m(18' 8") boom, 3.90m(12' 9") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius												At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		9.0m(30' 0")		Capacity		Reach
																m(ft)
9.0m (30' 0")	kg lb													*2470 *5450	*2470 *5450	7.50 (24.6)
7.5m (25' 0")	kg lb								*2210 *4870	*2210 *4870				*2540 *5600	2460 2000	8.81 (28.9)
6.0m (20' 0")	kg lb								*2630 *5800	*2630 *5800				*2640 *5820	2000 4410	9.67 (31.7)
4.5m (15' 0")	kg lb								*2870 *6330	*2870 *6330	*2250 4960	2180 4810	*2760 *6080	1740 3840	10.20 (33.5)	
3.0m (10' 0")	kg lb						*3690 *8140	*3690 *8140	*3310 *7300	3020 6660	*3110 *6860	2120 4670	2860 6310	1600 3530	10.45 (34.3)	
1.5m (5' 0")	kg lb			*10500 *23150	*10500 *23150	*6230 *13730	*6230 *13730	*4620 *10190	4150 9150	*3830 *8440	2850 6280	*3410 *7520	2030 4480	2800 6170	1550 3420	10.46 (34.3)
Ground Line	kg lb	*4550 *10030	*4550 *10030	*9180 *20240	*9180 *20240	*7700 *16980	*6060 *13360	*5460 *12040	3880 8650	*4320 *9520	2700 5950	3500 7720	1960 4320	2880 6350	1580 3510	10.22 (33.5)
-1.5m (-5' 0")	kg lb	*6640 *14640	*6640 *14640	*10320 *22750	*10320 *22750	*8510 *18760	5790 12760	*6030 *13290	3700 8160	4620 10190	2600 5730			3120 6880	1730 3810	9.71 (31.9)
-3.0m (-10' 0")	kg lb	*8970 *19780	*8970 *19780	*12920 *28480	11480 25310	*8670 *19110	5710 12590	*6210 *13690	3640 8020	4590 10120	2560 5640			3620 7980	2040 4500	8.88 (29.1)
-4.5m (-15' 0")	kg lb	*11810 *26040	*11810 *26040	*12300 *27120	11700 25790	*8140 *17950	5790 12760	*5830 *12850	3680 8110					*3830 *8440	2710 5970	7.60 (24.9)
-6.0m (-20' 0")	kg lb			*9680 *21340	*9680 *21340	*6460 *14240	6030 13290									

(5) 5.20m(17' 7") boom, 2.0m(6' 7") arm equipped with 1.34m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius								At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		Capacity		Reach
												m(ft)
7.5m (25' 0")	kg lb									*3880 *8550	*3880 *8550	5.84 (19.2)
6.0m (20' 0")	kg lb									*3950 *8710	3450 7610	7.15 (23.5)
4.5m (15' 0")	kg lb					*5250 *11570	*5250 *11570	*4660 *10270	4500 9920	*4100 *9040	2830 6240	7.88 (25.9)
3.0m (10' 0")	kg lb					*6770 *14930	*6770 *14930	*5290 *11660	4320 9520	*4280 *9440	2550 5620	8.22 (27.0)
1.5m (5' 0")	kg lb					*8240 *18170	6400 14110	*5990 *13210	4120 9080	4260 9390	2490 5490	8.23 (27.0)
Ground Line	kg lb					*9000 *19840	6160 13580	*6460 *14240	3980 8770	4510 9940	2630 5800	7.91 (26.0)
-1.5m (-5' 0")	kg lb	*10730 *23660	*10730 *23660	*13370 *29480	12220 26940	*8970 *19780	6120 13490	*6450 *14220	3950 8710	*4900 *10800	3070 6770	7.21 (23.7)
-3.0m (-10' 0")	kg lb			*11610 *25600	*11610 *25600	*7990 *17610	6240 13760			*4840 *10670	4260 9390	5.95 (19.5)

(6) 5.20m(17' 7") boom, 2.40m(7' 10") arm equipped with 1.20m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.













Load point height		Load radius										At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
														m(ft)
7.5m (25' 0")	kg lb											*3520 *7760	*3520 *7760	6.32 (20.7)
6.0m (20' 0")	kg lb							*3970 *8750	*3970 *8750			*3640 *8020	3180 7010	7.53 (24.7)
4.5m (15' 0")	kg lb							*4270 *9410	*4270 *9410			*3800 *8380	2640 5820	8.22 (27.0)
3.0m (10' 0")	kg lb			*9850 *21720	*9850 *21720	*6220 *13710	*6220 *13710	*4950 *10910	4350 9590	*4420 9740	2950 6500	*3990 *8800	2380 5250	8.55 (28.1)
1.5m (5' 0")	kg lb					*7810 *17220	6440 14200	*5720 *12610	4130 9110	*4740 *10450	2860 6310	3990 8800	2320 5110	8.56 (28.1)
Ground Line	kg lb			*10640 *23460	*10640 *23460	*8790 *19380	6150 13560	*6300 *13890	3960 8730			4200 9260	2430 5360	8.25 (27.1)
-1.5m (-5' 0")	kg lb	*9990 *22020	*9990 *22020	*13790 *30400	12050 26570	*8990 *19820	6050 13340	*6460 *14240	3890 8580			*4700 *10360	2800 6170	7.58 (24.9)
-3.0m (-10' 0")	kg lb	*15200 *33510	*15200 *33510	*12350 *27230	12270 27050	*8340 *18390	6120 13490					*4830 *10650	3720 8200	6.42 (21.1)
-4.5m (-15' 0")	kg lb			*9150 *20170	*9150 *20170									

2) ROBEX 210LC-3

(1) 5.68m(18' 8") boom, 2.92m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.











•  : Rating over-front

•  : Rating over-side or 360 degree













Load point height		Load radius										At max. reach			
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach	
														m(ft)	
7.5m (25' 0")	kg lb												*3110 *6860	*3110 *6860	7.63 (25.0)
6.0m (20' 0")	kg lb												*3210 *7080	2640 5820	8.63 (28.3)
4.5m (15' 0")	kg lb							*3840 *8470	*3840 *8470	*3640 *8020	3260 7190	*3340 *7360	2270 5000	9.23 (30.3)	
3.0m (10' 0")	kg lb			*9460 *20860	*9460 *20860	*5880 *12960	*5880 *12960	*4600 *10140	4530 9990	*4010 *8840	3140 6920	*3490 *7690	2090 4610	9.51 (31.2)	
1.5m (5' 0")	kg lb			*7210 *15900	*7210 *15900	*7500 *16530	6580 14510	*5430 *11970	4260 9390	*4440 *9790	3000 6610	3510 7740	2040 4500	9.52 (31.2)	
Ground Line	kg lb			*8330 *18360	*8330 *18360	*8550 *18850	6230 13730	*6080 *13400	4060 8950	*4800 *10580	2890 6370	*3640 *8020	2100 4630	9.25 (30.3)	
-1.5m (-5' 0")	kg lb	*7880 *17370	*7880 *17370	*11290 *24890	*11290 *24890	*8890 *19600	6100 13450	*6390 *14090	3960 8730	4930 10870	2840 6260	4010 8840	2330 5140	8.68 (28.5)	
-3.0m (-10' 0")	kg lb	*11070 *24410	*11070 *24410	*12760 *28130	12240 26980	*8580 *18920	6130 13510	*6230 *13730	3960 8730			*4260 *9390	2840 6260	7.71 (25.3)	
-4.5m (-15' 0")	kg lb			*10730 *23660	*10730 *23660	*7390 *16290	6310 13910					*4230 *9330	4180 9220	6.13 (20.1)	

- Note
1. Lifting capacity are based on SAE J1097, ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of 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 load limited by hydraulic capacity.

(2) 5.68m(18' 8") boom, 2.0m(6' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius								At max. reach		
		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
												m(ft)
7.5m (25' 0")	kg lb									*3750 *8270	*3750 *8270	6.60 (21.7)
6.0m (20' 0")	kg lb					*4200 *9260	*4200 *9260			*3800 *8380	3140 6920	7.75 (25.4)
4.5m (15' 0")	kg lb			*5460 *12040	*5460 *12040	*4600 *10140	*4600 *10140			*3910 *8620	2650 5840	8.42 (27.6)
3.0m (10' 0")	kg lb			*7070 *15590	6900 15210	*5300 *11680	4450 9810	*4540 *10010	3100 6830	*4050 *8930	2430 5360	8.74 (28.7)
1.5m (5' 0")	kg lb			*8450 *18630	6460 14240	*6000 *13230	4240 9350	*4860 *10710	3000 6610	4040 8910	2380 5250	8.75 (28.7)
Ground Line	kg lb			*9030 *19910	6280 13850	*6480 *14240	4100 9040	5030 11090	2940 6480	4240 9350	2490 5490	8.46 (27.8)
-1.5m (-5' 0")	kg lb	*12160 *26810	12160 26810	*8920 *19670	6260 13800	*6490 *14310	4060 8950			*4530 *9990	2840 6260	7.81 (25.6)
-3.0m (-10' 0")	kg lb	*11410 *25150	*11410 *25150	*8110 *17880	6370 14040	*5820 *12830	4150 9150			*4500 *9920	3680 8110	6.69 (21.9)

(3) 5.68m(18' 8") boom, 2.40m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
														m(ft)
7.5m (25' 0")	kg lb											*3420 *7540	*3420 *7540	7.05 (23.1)
6.0m (20' 0")	kg lb					*3780 *8330	*3780 *8330					*3490 *7690	2890 6370	8.13 (26.7)
4.5m (15' 0")	kg lb							*4230 *9330	*4230 *9330	*3970 *8750	3180 7010	*3620 *7980	2460 5420	8.77 (28.8)
3.0m (10' 0")	kg lb					*6510 *14350	*6510 *14350	*4960 *10930	4460 9830	*4270 *9410	3090 6810	*3770 *8310	2250 4960	9.07 (29.8)
1.5m (5' 0")	kg lb					*8010 *17660	6480 14290	*5720 *12610	4220 9300	*4640 *10230	2970 6550	3770 8310	2200 4850	9.08 (29.8)
Ground Line	kg lb					*8820 *19440	6220 13710	*6270 *13820	4050 8930	*4930 *10870	2890 6370	3940 8690	2290 5050	8.80 (28.9)
-1.5m (-5' 0")	kg lb			*11770 *25950	*11770 *25950	*8920 *19670	6160 13580	*6450 *14220	3990 8800			*4320 *9520	2580 5690	8.18 (26.8)
-3.0m (-10' 0")	kg lb	*12820 *28260	*12820 *28260	*12080 *26630	*12080 *26630	*8350 *18410	6230 13730	*6050 *13340	4030 8880			*4410 *9720	3250 7170	7.14 (23.4)
-4.5m (-15' 0")	kg lb			*9590 *21140	*9590 *21140	*6680 *14730	6470 14260							













(4) 5.68m(18' 8") boom, 3.90m(9' 7") arm equipped with 0.87m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius												At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		9.0m(30' 0")		Capacity		Reach
																m(ft)
9.0m (30' 0")	kg lb													*2470 *5450	*2470 *5450	7.50 (24.6)
7.5m (25' 0")	kg lb								*2210 *4870	*2210 *4870				*2540 *5600	*2540 *5600	8.81 (28.9)
6.0m (20' 0")	kg lb								*2630 *5800	*2630 *5800				*2640 *5820	2080 4590	9.67 (31.7)
4.5m (15' 0")	kg lb								*2870 *6330	*2870 *6330	*2250 *4960	*2250 *4960		*2760 *6080	1810 3990	10.20 (33.5)
3.0m (10' 0")	kg lb							*3690 *8140	*3690 *8140	*3310 *7300	3120 6880	*3110 *6860	2200 4850	*2910 *6420	1670 3680	10.45 (34.3)
1.5m (5' 0")	kg lb			*10500 *23150	*10500 *23150	*6230 *13730	*6230 *13730	*4620 *10190	4280 9440	*3830 *8440	2950 6500	*3410 *7520	2120 4670	2920 6440	1620 3570	10.46 (34.3)
Ground Line	kg lb	*4550 *10030	*4550 *10030	*9180 *20240	*9180 *20240	*7700 *16980	*6260 *13800	*5460 *12040	*4020 *8860	*4320 *9520	*2800 *6170	*3640 *8020	*2040 *4500	*3000 *6610	*1600 *3660	10.22 (33.5)
-1.5m (-5' 0")	kg lb	*6640 *14640	*6640 *14640	*10320 *22750	*10320 *22750	*8510 *18760	5990 13210	*6030 *13290	3840 8470	*4660 *10270	2700 5950			3240 7140	1810 3990	9.71 (31.9)
-3.0m (-10' 0")	kg lb	*8970 *19780	*8970 *19780	*12920 *28480	11860 26150	*8670 *19110	5920 13050	*6210 *13690	3770 8310	*4720 *10410	2670 5890			*3660 *8070	2130 4700	8.88 (29.1)
-4.5m (-15' 0")	kg lb	*11810 *26040	*11810 *26040	*12300 *27120	12080 26630	*8140 *17950	5990 13210	*5830 *12850	3820 8420					*3830 *8440	2820 6220	7.60 (24.9)
-6.0m (-20' 0")	kg lb			*9680 *21340	*9680 *21340	*6460 *14240	6240 13760									

(5) 5.20m(18' 8") boom, 2.0m(9' 7") arm equipped with 1.34m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.




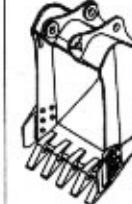


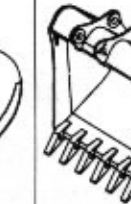
Load point height		Load radius								At max. reach				
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		Capacity		Reach		
												m(ft)		
7.5m (25' 0")	kg lb											*3880 *8550	*3880 *8550	5.84 (19.2)
6.0m (20' 0")	kg lb											*3950 *8710	3560 7850	7.15 (23.5)
4.5m (15' 0")	kg lb							*5250 *11570	*5250 *11570	*4660 *10270	4640 10230	*4100 *9040	2930 6460	7.88 (25.9)
3.0m (10' 0")	kg lb							*6770 *14930	*6770 *14930	*5290 *11660	4460 9830	*4280 *9440	2650 5840	8.22 (27.0)
1.5m (5' 0")	kg lb							*8240 *18170	6600 14550	*5990 *13210	4260 9390	4410 9720	2590 5710	8.23 (27.0)
Ground Line	kg lb							*9000 *19840	6970 14040	*6460 *14240	*4120 *9080	*6470 *10300	2730 6020	7.91 (26.0)
-1.5m (-5' 0")	kg lb	*10730 *23660	*10730 *23660	*13370 *29480	12600 27780	*8970 *19780	6330 13960	*6450 *14220	4090 9020	*4900 *10800	3180 7010	*4900 *10800	3180 7010	7.21 (23.7)
-3.0m (-10' 0")	kg lb			*11610 *25600	*11610 *25600	*7990 *17610	6440 14200					*4840 *10670	4400 9700	5.95 (19.5)

(6) 5.20m(18' 8") boom, 2.40m(6' 7") arm equipped with 1.20m³(PCSA heaped) bucket and 700mm (28") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5' 0")		3.0m(10' 0")		4.5m(15' 0")		6.0m(20' 0")		7.5m(25' 0")		Capacity		Reach
														m(ft)
7.5m (25' 0")	kg lb											*3520 *7760	*3520 *7760	6.32 (20.7)
6.0m (20' 0")	kg lb							*3970 *8750	*3970 *8750			*3640 *8020	3280 7230	7.53 (24.7)
4.5m (15' 0")	kg lb							*4270 *9410	*4270 *9410			*3800 *8380	2730 6020	8.22 (27.0)
3.0m (10' 0")	kg lb			*9850 *21720	*9850 *21720	*6220 *13710	*6220 *13710	*4950 *10910	4490 9900	*4420 *9740	3060 6750	*3990 *8800	2470 5450	8.55 (28.1)
1.5m (5' 0")	kg lb					*7810 *17220	6650 14660	*5720 *12610	4270 9410	*4740 *10450	2970 6550	4140 9130	2410 5310	8.56 (28.1)
Ground Line	kg lb			*10640 *23460	*10640 *23460	*8790 *19380	6350 14000	*6300 *13890	4100 9040			4350 9590	2530 5580	8.25 (27.1)
-1.5m (-5' 0")	kg lb	*9990 *22020	*9990 *22020	*13790 *30400	12430 27400	*8990 *19820	6260 13800	*6460 *14240	4030 8880			*4700 *10360	2900 6390	7.58 (24.9)
-3.0m (-10' 0")	kg lb	*15200 *33510	*15200 *33510	*12350 *27230	12350 *27230	*8340 *18390	6330 13960					*4830 *10650	3850 8490	6.42 (21.1)
-4.5m (-15' 0")	kg lb			*9150 *20170	*9150 *20170									

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

						
0.51 m³ PCSA heaped bucket	0.80 m³ PCSA heaped bucket	0.87 m³ PCSA heaped bucket	0.92 m³ PCSA heaped bucket	1.05 m³ PCSA heaped bucket	1.20 m³ PCSA heaped bucket	1.34 m³ PCSA heaped bucket



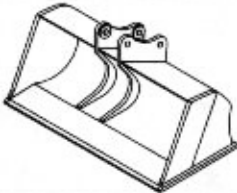
Capacity		Width		Weight	Recommendation					
PCSA heaped	CECE heaped	Without side cutter	With side cutter		5.68m (18' 8") boom				5.2m (17' 7") boom	
					2.0m arm (6' 7")	2.4m arm (7' 10")	2.92m arm (9' 7")	3.9m arm (12' 9")	2.0m arm (6' 7")	2.4m arm (7' 10")
0.51 m³ (0.67 yd³)	0.45 m³ (0.59 yd³)	700 mm (27.6")	820 mm (32.3")	580 kg (1280 lb)	■	■	■	■	■	■
0.80 m³ (1.05 yd³)	0.70 m³ (0.92 yd³)	1000 mm (39.4")	1120 mm (44.1")	650 kg (1430 lb)	■	■	■	■	■	■
0.87 m³ (1.14 yd³)	0.75 m³ (0.98 yd³)	1090 mm (42.9")	1210 mm (47.6")	660 kg (1460 lb)	■	■	■	■	■	■
0.92 m³ (1.20 yd³)	0.80 m³ (1.05 yd³)	1130 mm (44.5")	1090 mm (42.9")	710 kg (1570 lb)	■	■	■	■	■	■
1.05 m³ (1.37 yd³)	0.90 m³ (1.18 yd³)	1250 mm (49.2")	1370 mm (53.9")	740 kg (1630 lb)	■	■	■	■	■	■
1.20 m³ (1.57 yd³)	1.00 m³ (1.31 yd³)	1400 mm (55.1")	—	770 kg (1700 lb)	■	■	■	■	■	■
1.34 m³ (1.75 yd³)	1.15 m³ (1.50 yd³)	1550 mm (61.1")	—	800 kg (1760 lb)	■	■	■	■	■	■

■ Applicable for materials with density of 2000 kg/m³ (3370 lb/yd³) or less


■ Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less


■ Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less


2) ROCK AND SLOPE FINISHING BUCKET

			
0.87 m³ PCSA heaped bucket (770 kg, 1700 lb)	0.87 m³ PCSA heaped bucket (860 kg, 1900 lb)	0.75 m³ PCSA heaped bucket	0.86 m³ PCSA heaped bucket

Capacity		Width		Weight	Recommendation				
					5.68m (18' 8") boom			5.2m (17' 7") boom	
PCSA heaped	CECE heaped	Without side cutter	With side cutter		2.0m arm (6' 7")	2.4m arm (7' 10")	2.92m arm (9' 7")	2.0m arm (6' 7")	2.4m arm (7' 10")
0.87 m³ (1.14 yd³)	0.75 m³ (0.98 yd³)	1150 mm (45.3")	—	770 kg (1700 lb)					
0.87 m³ (1.14 yd³)	0.75 m³ (0.98 yd³)	1140 mm (44.9")	—	860 kg (1900 lb)					
0.75 m³ (0.98 yd³)	0.65 m³ (0.85 yd³)	1810 mm (71.3")	—	880 kg (1940 lb)					
0.86 m³ (1.12 yd³)	0.75 m³ (0.98 yd³)	1400 mm (55.2")	—	770 kg (1700 lb)					

 Applicable for materials with density of 2000 kg/m³ (3370 lb/yd³) or less

 Applicable for materials with density of 1600 kg/m³ (2700 lb/yd³) or less


 Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs, and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

Model	Shapes		Triple grouser		
					
R210-3	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	20360 (44890)	20620 (45460)	20900 (46080)
	Ground pressure	kg/cm ² (psi)	0.48 (6.83)	0.41 (5.83)	0.37 (5.26)
	Overall width	mm (ft-in)	2800 (9' 2")	2900 (9' 6")	3000 (9' 10")
R210LC-3	Shoe width	mm (in)	600 (24)	700 (28)	800 (32)
	Operating weight	kg (lb)	21020 (46340)	21300 (46960)	21600 (47620)
	Ground pressure	kg/cm ² (psi)	0.45 (6.40)	0.39 (5.55)	0.34 (4.84)
	Overall width	mm (ft-in)	2990 (9' 10")	3090 (10' 2")	3190 (10' 6")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity	
	ROBEX 210-3	ROBEX 210LC-3
Carrier rollers	2 EA	2 EA
Track rollers	7 EA	9 EA
Track shoes	45 EA	49 EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	CUMMINS 6BT5.9-C
Type	4-cycle turbocharged, after cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	102 × 120 mm (4.02" × 4.72")
Piston displacement	5800 cc (359 cu in)
Compression ratio	17.5 : 1
Rated gross horse power	142 Hp (106kw) at 2100 rpm
Maximum torque at 1600rpm	55.3 kgf · m (400 lb · ft)
Engine oil quantity	16.4 l (4.3 U.S. gal)
Dry weight	399 kg (880 lb)
High idling speed	2250 + 50 rpm
Low idling speed	800 ± 100 rpm
Rated fuel consumption	153.5 g / Hp · hr
Starting motor	DELCO REMY 37MT(24V)
Alternator	DAC HC60(24V-60AMP)
Battery	2 × 12V × 160 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axial piston pumps
Capacity	2 × 105 cc/rev
Maximum pressure	320 kg/cm ² (4550 psi) / 350 kg/cm ² (4980 psi)
Rated oil flow	2 × 220 l / min (58.1 U.S. gpm/48.4 U.K. gpm)
Rated speed	2100 rpm

3) PILOT PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10 cc/rev
Maximum pressure	40 kg/cm ² (570 psi)
Rated oil flow	21 l /min (5.5 U.S. gpm/4.6 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools mono-block
Operating method	Hydraulic pilot assist
Main relief valve pressure	320 kg/cm ² (4551 psi) / 350 kg/cm ² (4980 psi)
Overload relief valve pressure	380 kg/cm ² (5405 psi)

5) SWING MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	151 cc/rev
Relief pressure	240 kg/cm ² (3698 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	27 kgf · m (195 lb · ft)
Brake release pressure	20~50 kg/cm ² (284~711 psi)
Reduction gear type	2 - stage planetary
Swing speed	12.5 rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Operating pressure	320 kg/cm ² (4551 psi)
Reduction gear type	3 - stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	11 kg/cm ² (156 psi)
Braking torque	49.3 kgf · m (357 lb · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	minimum	5.5 kg/cm ² (78 psi)
	maximum	19.5 kg/cm ² (277 psi)
Single operation stroke	lever	61 mm (2.4 in)
	pedal	123 mm (4.8 in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 85 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 95 × 1460 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 115 × ∅ 80 × 1120 mm
	Cushion	Extend only

9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R210-3	Standard	700 mm (28")	0.41 kg/cm ² (5.83 psi)	45	2900 mm (9' 6")
	Option	600 mm (24")	0.48 kg/cm ² (6.83 psi)	45	2800 mm (9' 2")
		800 mm (32")	0.37 kg/cm ² (5.26 psi)	45	3000 mm (9' 10")
R210LC-3	Standard	700 mm (28")	0.39 kg/cm ² (5.55 psi)	49	3090 mm (10' 2")
	Option	600 mm (24")	0.45 kg/cm ² (6.40 psi)	49	2990 mm (9' 10")
		800 mm (32")	0.34 kg/cm ² (4.84 psi)	49	3190 mm (10' 6")

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	PCSA heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	4	1090 mm (42.9")	1210 mm (47.6")
Option	0.51 m ³ (0.67 yd ³)	0.45 m ³ (0.59 yd ³)	3	700 mm (27.6")	820 mm (32.3")
	0.80 m ³ (1.05 yd ³)	0.70 m ³ (0.92 yd ³)	4	1000 mm (39.4")	1120 mm (44.1")
	0.92 m ³ (1.20 yd ³)	0.80 m ³ (1.05 yd ³)	5	1130 mm (44.5")	1090 mm (42.9")
	1.05 m ³ (1.37 yd ³)	0.90 m ³ (1.18 yd ³)	5	1250 mm (49.2")	1370 mm (53.9")
	1.20 m ³ (1.57 yd ³)	1.00 m ³ (1.31 yd ³)	5	1400 mm (55.1")	—
	1.34 m ³ (1.75 yd ³)	1.15 m ³ (1.50 yd ³)	6	1550 mm (61.1")	—
	◆0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	5	1150 mm (45.3")	—
	◆0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	5	1140 mm (44.9")	—
	■0.75 m ³ (0.98 yd ³)	0.65 m ³ (0.85 yd ³)	—	1810 mm (71.3")	—
	■0.86 m ³ (1.12 yd ³)	0.75 m ³ (0.98 yd ³)	—	1400 mm (55.2")	—

◆ : Rock bucket

■ : Slope finishing bucket

10. RECOMMENDED OILS

Use only oils listed below or equivalent.
Do not mix different brand oil.

Service point	Kind of fluid	Capacity l (U.S. gal)	Ambient temperature °C (°F)								
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)	40 (104)		
Engine oil pan	Engine oil	16.4 (4.3)					SAE 30				
			SAE 10W								
			SAE 10W-30								
			SAE 15W-40								
Swing drive	Gear oil	5.0 (1.3)		SAE 85W-140							
Final drive		3.0 × 2 (0.79 × 2)									
Hydraulic tank	Hydraulic oil	Tank; 250 (66) System; 330 (87.2)	ISO VG 32								
			ISO VG 46								
			ISO VG 68								
Fuel tank	Diesel fuel	300 (79.3)	ASTM D975 NO. 1								
			ASTM D975 NO. 2								
Fitting (Grease nipple)	Grease	As required	NLGI NO. 1								
			NLGI NO. 2								
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	35(9.2)		Ethylene glycol base permanent type							

SAE : Society of Automotive Engineers.

API : American Petroleum Institute.

ISO : International Organization for Standardization.

NLGI : National Lubricating Grease Institute.

ASTM : American Society of Testing and Material.