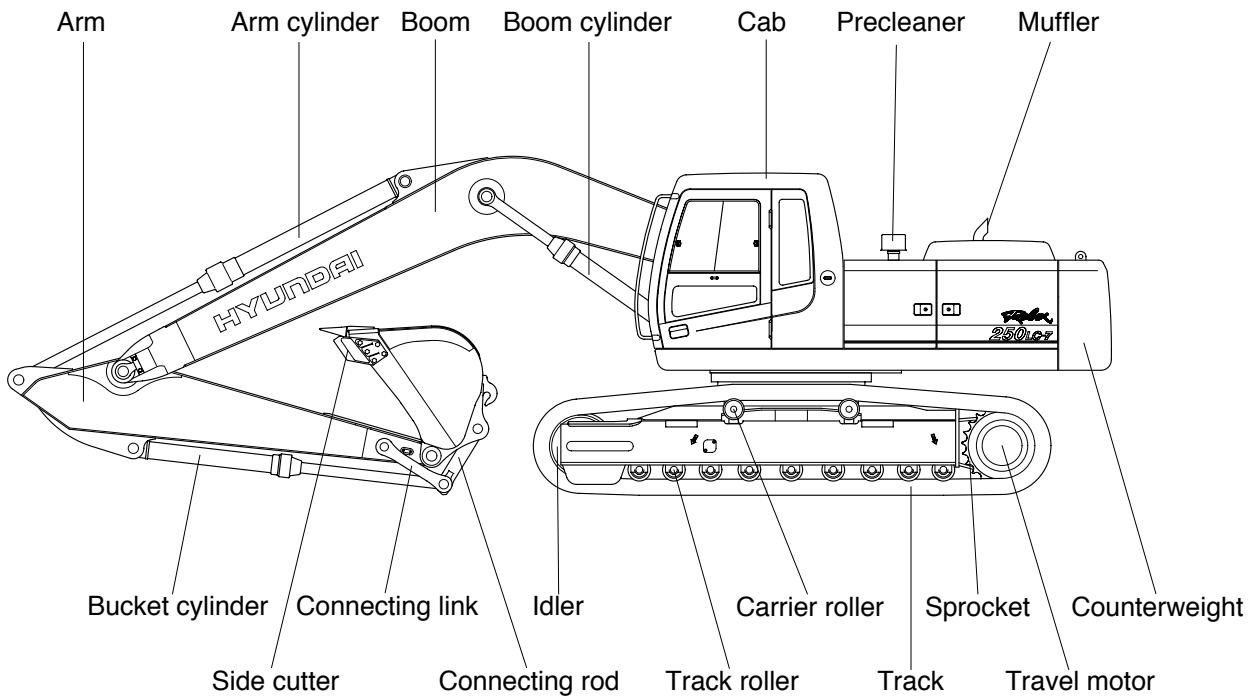
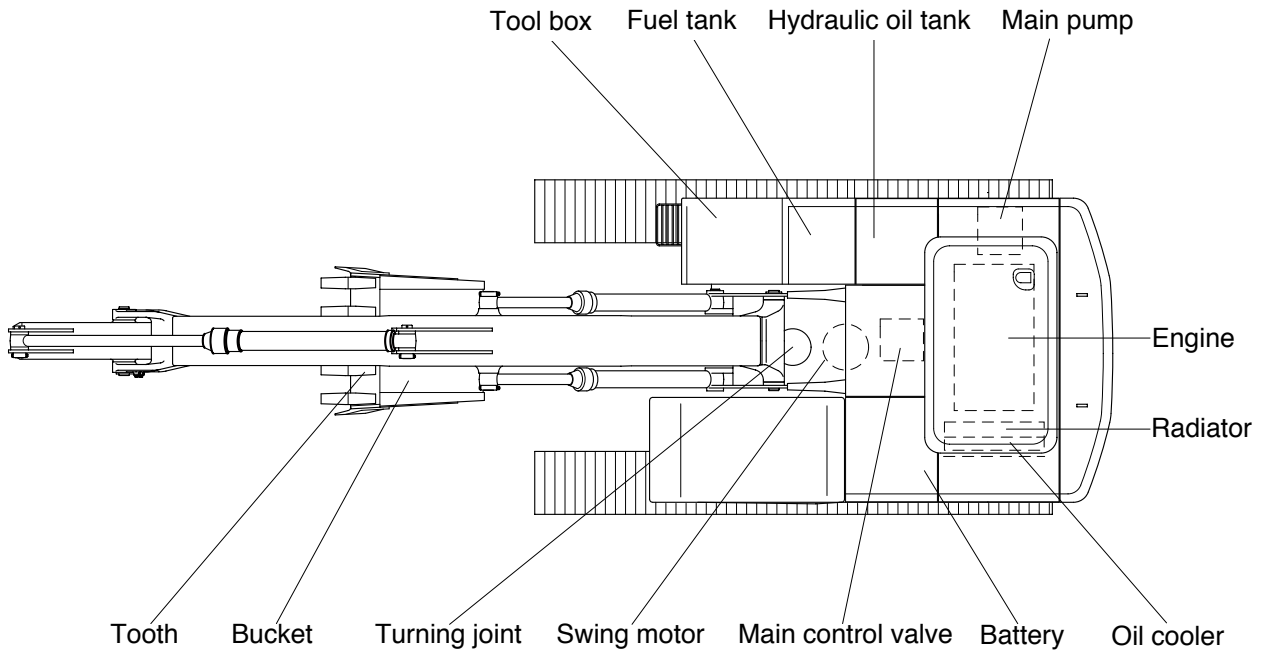


GROUP 2 SPECIFICATIONS

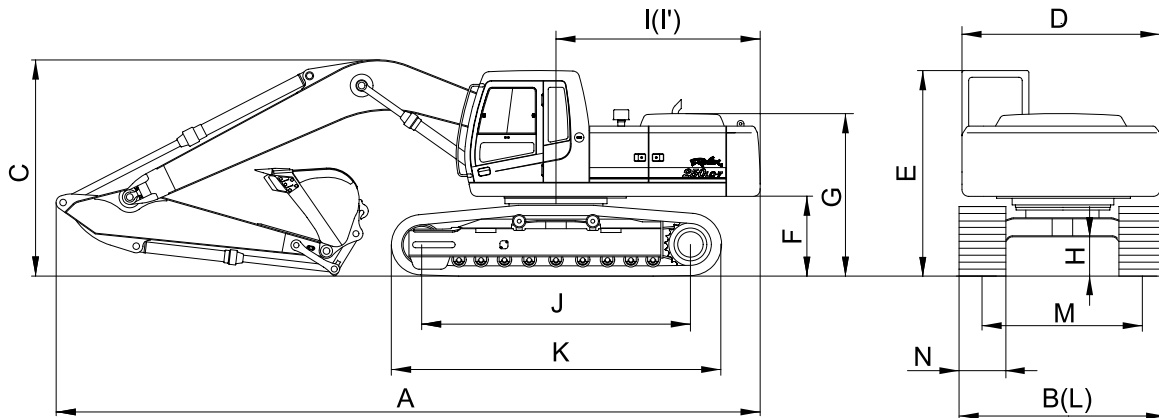
1. MAJOR COMPONENT



25072SP00

2. SPECIFICATIONS

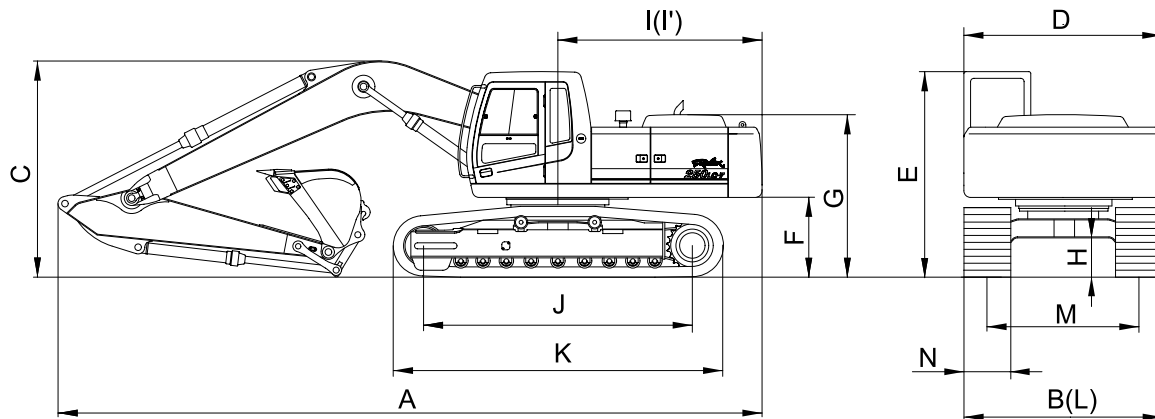
1) R250LC-7



25072SP01

Description		Unit	Specification
Operating weight		kg(lb)	25200(55600)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	1.08(1.41)
Overall length	A	mm(ft-in)	9920(32' 7")
Overall width, with 600mm shoe	B		3180(10' 5")
Overall height	C		3220(10' 7")
Superstructure width	D		2840(9' 4")
Overall height of cab	E		2990(9' 10")
Ground clearance of counterweight	F		1115(3' 8")
Engine cover height	G		2427(7' 12")
Minimum ground clearance	H		480(1' 7")
Rear-end distance	I		2870(9' 5")
Rear-end swing radius	I'		2965(9' 9")
Distance between tumblers	J		3830(12' 7")
Undercarriage length	K		4640(15' 3")
Undercarriage width	L		3180(10' 5")
Track gauge	M		2580(8' 6")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.5/5.5(2.2/3.4)
Swing speed		rpm	12.6
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm ² (psi)	0.51(7.25)

2) R250NLC-7

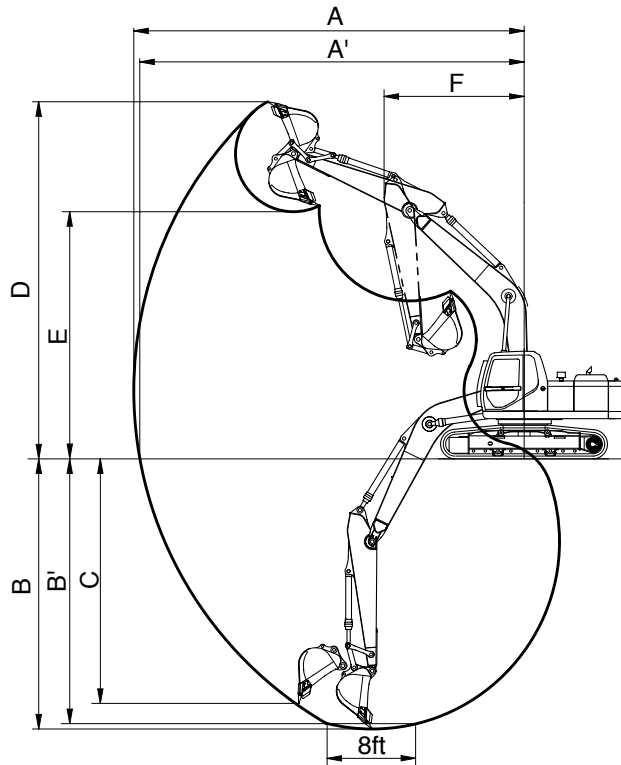


25072SP02

Description		Unit	Specification
Operating weight		kg(lb)	25100(55300)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	1.08(1.41)
Overall length	A	mm(ft-in)	9920(32' 7")
Overall width, with 600mm shoe	B		2980(9' 9")
Overall height	C		3220(10' 7")
Superstructure width	D		2840(9' 4")
Overall height of cab	E		2990(9' 10")
Ground clearance of counterweight	F		1115(3' 8")
Engine cover height	G		2427(7' 12")
Minimum ground clearance	H		480(1' 7")
Rear-end distance	I		2870(9' 5")
Rear-end swing radius	I'		2965(9' 9")
Distance between tumblers	J		3830(12' 7")
Undercarriage length	K		4640(15' 3")
Undercarriage width	L		2980(9' 9")
Track gauge	M		2380(7' 10")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.5/5.5(2.2/3.4)
Swing speed		rpm	12.6
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm ² (psi)	0.51(7.25)

3. WORKING RANGE

1) R250LC/NLC-7 [5.85m(19' 2") BOOM]



25072SP04

Description		2.10m(6' 11") Arm	2.50m(8' 2") Arm	3.05m(10' 0") Arm	3.60m(11' 10") Arm
Max digging reach	A	9550mm(31' 4")	9870mm(32' 5")	10360mm(34' 0")	10870mm(35' 8")
Max digging reach on ground	A'	9360mm(30' 9")	9680mm(31' 9")	10190mm(33' 5")	10700mm(35' 1")
Max digging depth	B	6050mm(19' 10")	6450mm(21' 2")	7000mm(23' 0")	7550mm(24' 9")
Max digging depth (8ft level)	B'	5840mm(19' 2")	6260mm(20' 6")	6830mm(22' 5")	7400mm(24' 3")
Max vertical wall digging depth	C	5480mm(18' 0")	5640mm(18' 6")	6150mm(20' 2")	6830mm(22' 5")
Max digging height	D	9450mm(31' 0")	9460mm(31' 0")	9670mm(31' 9")	9920mm(32' 7")
Max dumping height	E	6360mm(20' 10")	6420mm(21' 1")	6630mm(21' 9")	6860mm(22' 6")
Min swing radius	F	4420mm(14' 6")	4200mm(13' 9")	3980mm(13' 1")	3900mm(12' 10")
Bucket digging force	SAE	157[171]kN	157[171]kN	157[171]kN	157[171]kN
		16000[17450]kgf	16000[17450]kgf	16000[17450]kgf	16000[17450]kgf
		35270[38480]lbf	35270[38480]lbf	35270[38480]lbf	35270[38480]lbf
	ISO	179[195]kN	179[195]kN	179[195]kN	179[195]kN
		18200[19850]kgf	18200[19850]kgf	18200[19850]kgf	18200[19850]kgf
		40120[43770]lbf	40120[43770]lbf	40120[43770]lbf	40120[43770]lbf
Arm crowd force	SAE	135[148]kN	130[142]kN	115[125]kN	117[127]kN
		13800[15050]kgf	13300[14510]kgf	11700[12760]kgf	11900[12980]kgf
		30420[33190]lbf	29320[31990]lbf	25790[28130]lbf	26230[28610]lbf
	ISO	140[153]kN	134[147]kN	119[129]kN	121[132]kN
		14300[15600]kgf	13700[14950]kgf	12100[13200]kgf	12300[13420]kgf
		31530[34400]lbf	30200[32950]lbf	26680[29110]lbf	27120[29590]lbf

[] : Power boost











4. WEIGHT

Item	R250LC-7		R250NLC-7	
	kg	lb	kg	lb
Upperstructure assembly	5520	12170	←	←
Main frame weld assembly	2190	4800	←	←
Engine assembly	530	1170	←	←
Main pump assembly	120	260	←	←
Main control valve assembly	200	440	←	←
Swing motor assembly	330	730	←	←
Hydraulic oil tank assembly	190	420	←	←
Fuel tank assembly	180	400	←	←
Counterweight	4600	10140	←	←
Cab assembly	310	680	←	←
Lower chassis assembly	9880	21780	9780	21560
Track frame weld assembly	3070	6760	2965	6540
Swing bearing	360	800	←	←
Travel motor assembly	280	620	←	←
Turning joint	50	110	←	←
Track recoil spring and idler	300	660	←	←
Idler	170	370	←	←
Carrier roller	20	45	←	←
Track roller	50	110	←	←
Track-chain assembly (600mm standard triple grouser shoe)	1500	3310	←	←
Front attachment assembly(5.85m boom, 3.05m arm,1.08m ³ SAE heaped bucket)	4960	10930	←	←
5.85m boom assembly	1970	4340	←	←
3.05m arm assembly	1000	2200	←	←
1.08m ³ SAE heaped bucket	890	1960	←	←
Boom cylinder assembly	240	530	←	←
Arm cylinder assembly	340	750	←	←
Bucket cylinder assembly	220	490	←	←
Bucket control rod assembly	110	240	←	←

5. LIFTING CAPACITIES













(1) 5.85m(19' 2") boom, 2.10m(6' 11") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

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













Load point height		Load radius								At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
												m(ft)
6.0m (20ft)	kg lb					*5900 *13010	5840 12870			5220 11510	3200 7050	8.32 (27.3)
4.5m (15ft)	kg lb			*7950 *17530	*7950 *17530	*6630 *14620	5570 12280	6060 13360	3690 8140	4520 9960	2710 5970	8.91 (29.2)
3.0m (10ft)	kg lb			*10440 *23020	8200 18080	*7750 *17090	5190 11440	5900 13010	3550 7830	4210 9280	2480 5470	9.17 (30.1)
1.5m (5ft)	kg lb			*12520 *27600	7520 16580	8250 18190	4850 10690	5720 12610	3380 7450	4170 9190	2430 5360	9.14 (30.0)
Ground Line	kg lb			13110 28900	7250 15980	8010 17660	4640 10230	5600 12350	3270 7210	4410 9720	2580 5690	8.80 (28.9)
-1.5m (-5ft)	kg lb	*15590 *34370	15160 33420	13090 28860	7230 15940	7940 17500	4580 10100			5060 11160	2990 6590	8.13 (26.7)
-3.0m (-10ft)	kg lb	*17410 *38380	15470 34110	*12310 *27140	7390 16290	8050 17750	4680 10320			*6420 *14150	3980 8770	6.98 (22.9)
-4.5m (-15ft)	kg lb	*13610 *30000	*13610 *30000	*9640 *21250	7790 17170							

- Note
1. Lifting capacity are based on SAE J1097 and 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) 5.85m(19' 2") boom, 2.50m(8' 2") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb											4900 10800	3000 6610	8.67 (28.4)
4.5m (15ft)	kg lb							*6190 *13650	5670 12500	*5740 *12650	3770 8310	4280 9440	2550 5620	9.23 (30.3)
3.0m (10ft)	kg lb					*9730 *21450	8410 18540	*7350 *16200	5280 11640	5950 13120	3590 7910	3990 8800	2340 5160	9.48 (31.1)
1.5m (5ft)	kg lb					*12000 *26460	7650 16870	8310 18320	4910 10820	5750 12680	3410 7520	3950 8710	2290 5050	9.45 (31.0)
Ground Line	kg lb					13150 28990	7280 16050	8030 17700	4660 10270	5600 12350	3270 7210	4150 9150	2410 5310	9.13 (30.0)
-1.5m (-5ft)	kg lb			*15230 *33580	14960 32980	13050 28770	7190 15850	7910 17440	4560 10050	5550 12240	3220 7100	4690 10340	2750 6060	8.49 (27.9)
-3.0m (-10ft)	kg lb	*16500 *36380	*16500 *36380	*18440 *40650	15250 33620	*12700 *28000	7300 16090	7970 17570	4610 10160			5940 13100	3550 7830	7.41 (24.3)
-4.5m (-15ft)	kg lb			*15140 *33380	*15140 *33380	*10620 *23410	7620 16800							

(3) 5.85m(19'82") boom, 3.05m(10' 0") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb									*4100 *9040	3950 8710	4400 9700	2660 5860	9.22 (30.2)
4.5m (15ft)	kg lb							*5460 *12040	*5460 *12040	*5160 *11380	3830 8440	3880 8550	2280 5030	9.74 (32.0)
3.0m (10ft)	kg lb			*13880 *30600	*13880 *30600	*8560 *18870	*8560 *18870	*6670 *14700	5360 11820	*5780 *12740	3620 7980	3630 8000	2090 4610	9.98 (32.7)
1.5m (5ft)	kg lb			*9530 *21010	*9530 *21010	*11070 *24410	7800 17200	*7970 *17570	4950 10910	5750 12680	3400 7500	3580 7890	2040 4500	9.95 (32.6)
Ground Line	kg lb			*10660 *23500	*10660 *23500	*12720 *28040	7280 16050	8010 17660	4640 10230	5560 12260	3230 7120	3730 8220	2130 4700	9.65 (31.7)
-1.5m (-5ft)	kg lb	*10020 *22090	*10020 *22090	*13980 *30820	*13980 *30820	12930 28510	7090 15630	7830 17260	4480 9880	5460 12040	3140 6920	4150 9150	2390 5270	9.05 (29.7)
-3.0m (-10ft)	kg lb	*13650 *30090	*13650 *30090	*18590 *40980	14860 32760	12960 28570	7110 15670	7820 17240	4470 9850			5080 11200	2980 6570	8.06 (26.4)
-4.5m (-15ft)	kg lb	*17980 *39640	*17980 *39640	*16880 *37210	15340 33820	*11570 *25510	7340 16180	8020 17680	4640 10230			*6060 *13360	4480 9880	6.48 (21.3)











(4) 5.85m(19' 2") boom, 3.60m(11'10") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius												At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
																
6.0m (20ft)	kg lb									*4210 *9280	4040 8910			3960 8730	2360 5200	9.77 (32.1)
4.5m (15ft)	kg lb									*4620 *10190	3890 8580	*2800 *6170	2650 5840	3530 7780	2040 4500	10.27 (33.7)
3.0m (10ft)	kg lb							*6010 *13250	5490 12100	*5300 *11680	3670 8090	*3990 *8800	2550 5620	3310 7300	1870 4120	10.49 (34.4)
1.5m (5ft)	kg lb			*12710 *28020	*12170 *28020	*10140 *22350	8040 17730	*7400 *16310	5040 11110	5790 12760	3430 7560	4210 9280	2430 5360	3260 7190	1820 4010	10.46 (34.3)
Ground Line	kg lb			*11110 *24490	*11110 *24490	*12150 *26790	7390 16290	8070 17790	4680 10320	5570 12280	3230 7120	4090 9020	2320 5110	3380 7450	1890 4170	10.18 (33.4)
-1.5m (-5ft)	kg lb	*9080 *20020	*9080 *20020	*13310 *29340	*13310 *29340	12950 28550	7090 15630	7830 17260	4470 9850	5430 11970	3100 6830			3710 8180	2100 4630	9.62 (31.6)
-3.0m (-10ft)	kg lb	*12220 *26940	*12220 *26940	*16960 *37390	14680 32360	12880 28400	7040 15520	7750 17090	4400 9700	5390 11880	3070 6770			4420 9740	2550 5620	8.71 (28.6)
-4.5m (-15ft)	kg lb	*15960 *35190	*15960 *35190	*18260 *40260	15050 33180	*12250 *27010	7180 15830	7850 17310	4490 9900					*5900 *13010	3580 7890	7.30 (24.0)

2) R250NLC-7













(1) 5.85m(19' 2") boom, 2.10m(6' 11") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

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













Load point height		Load radius								At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
												m(ft)
6.0m (20ft)	kg lb					*5900 *13010	5290 11660			5200 11460	2870 6330	8.32 (27.3)
4.5m (15ft)	kg lb			*7950 *17530	*7950 *17530	*6630 *14620	5030 11090	6040 13320	3310 7300	4500 9920	2410 5310	8.91 (29.2)
3.0m (10ft)	kg lb			*10440 *23020	7330 16160	*7750 *17090	4660 10270	5870 12940	3170 6990	4190 9240	2190 4830	9.17 (30.1)
1.5m (5ft)	kg lb			*12520 *27600	6670 14700	8210 18100	4330 9550	5690 12540	3010 6640	4150 9150	2150 4740	9.14 (30.0)
Ground Line	kg lb			13050 28770	6410 14130	7970 17570	4120 9080	5570 12280	2900 6390	4390 9680	2280 5030	8.80 (28.9)
-1.5m (-5ft)	kg lb	*15590 *34370	13120 28920	13030 28730	6390 14090	7900 17420	4060 8950			5040 11110	2660 5860	8.13 (26.7)
-3.0m (-10ft)	kg lb	*17410 *38380	13420 29590	*12310 *27140	6540 14420	8020 17680	4160 9170			*6420 *14150	3560 7850	6.98 (22.9)
-4.5m (-15ft)	kg lb	*13610 *30000	*13610 *30000	*9640 *21250	6930 15280							

- Note
1. Lifting capacity are based on SAE J1097 and 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) 5.85m(19' 2") boom, 2.50m(8' 2") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb											4880 10760	2680 5910	8.67 (28.4)
4.5m (15ft)	kg lb							*6190 *13650	5130 11310	*5740 *12650	3380 7450	4260 9390	2270 5000	9.23 (30.3)
3.0m (10ft)	kg lb					*9730 *21450	7530 16600	*7350 *16200	4750 10470	5920 13050	3210 7080	3970 8750	2070 4560	9.48 (31.1)
1.5m (5ft)	kg lb					*12000 *26460	6790 14970	8270 18230	4380 9660	5720 12610	3030 6680	3930 8660	2020 4450	9.45 (31.0)
Ground Line	kg lb					13090 28860	6440 14200	7990 17610	4140 9130	5570 12280	2900 6390	4130 9110	2120 4670	9.13 (30.0)
-1.5m (-5ft)	kg lb			*15230 *33580	12930 28510	12990 28640	6350 14000	7880 17370	4040 8910	5520 12170	2850 6280	4670 10300	2440 5380	8.49 (27.9)
-3.0m (-10ft)	kg lb	*16500 *36380	*16500 *36380	*18440 *40650	13210 29120	*12700 *28000	6450 14220	7940 17500	4090 9020			5910 13030	3170 6990	7.41 (24.3)
-4.5m (-15ft)	kg lb			*15140 *33380	13750 30310	*10620 *23410	6760 14900							

(3) 5.85m(19' 2") boom, 3.05m(10' 0") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

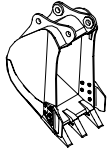
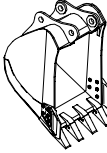
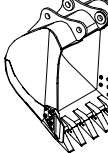
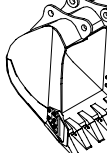
Load point height		Load radius										At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		Capacity		Reach
														m(ft)
6.0m (20ft)	kg lb									*4100 *9040	3570 7870	4380 9660	2370 5220	9.22 (30.2)
4.5m (15ft)	kg lb							*5460 *12040	5230 11530	*5160 *11380	3440 7580	3860 8510	2020 4450	9.74 (32.0)
3.0m (10ft)	kg lb			*13880 *30600	*13880 *30600	*8560 *18870	7780 17150	*6670 *14700	4830 10650	*5780 *12740	3240 7140	3610 7960	1840 4060	9.98 (32.7)
1.5m (5ft)	kg lb			*9530 *21010	*9530 *21010	*11070 *24410	6940 15300	*7970 *17570	4420 9740	5720 12610	3030 6680	3560 7850	1790 3950	9.95 (32.6)
Ground Line	kg lb			*10660 *23500	*10660 *23500	*12720 *28040	6430 14180	7980 17590	4120 9080	5530 12190	2850 6280	3710 8180	1860 4100	9.65 (31.7)
-1.5m (-5ft)	kg lb	*10020 *22090	*10020 *22090	*13980 *30820	12620 27820	12870 28370	6250 13780	7790 17170	3960 8730	5430 11970	2760 6080	4130 9110	2100 4630	9.05 (29.7)
-3.0m (-10ft)	kg lb	*13650 *30090	*13650 *30090	*18590 *40980	12840 28310	12900 28440	6270 13820	7780 17150	3950 8710			5060 11160	2640 5820	8.06 (26.4)
-4.5m (-15ft)	kg lb	*17980 *39640	*17980 *39640	*16880 *37210	13290 29300	*11570 *25510	6490 14310	7980 17590	4120 9080			*6060 *13360	4010 8840	6.48 (21.3)

(4) 5.85m(19' 2") boom, 3.60m(11'10") arm equipped with 1.08m³(SAE heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius												At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
																m(ft)
6.0m (20ft)	kg lb									*4210 *9280	3660 8070			3940 8690	2090 4610	9.77 (32.1)
4.5m (15ft)	kg lb									*4620 *10190	3510 7740	*2800 *6170	2350 5180	3510 7740	1790 3950	10.27 (33.7)
3.0m (10ft)	kg lb							*6010 *13250	4940 10890	*5300 *11680	3290 7250	*3990 *8800	2250 4960	3290 7250	1630 3590	10.49 (34.4)
1.5m (5ft)	kg lb			*12710 *28020	*12170 *28020	*10140 *22350	7160 15790	*7400 *16310	4510 9940	5760 12700	3060 6750	4180 9220	2130 4700	3240 7140	1580 3480	10.46 (34.3)
Ground Line	kg lb			*11110 *24490	*11110 *24490	*12150 *26790	6540 14420	8030 17700	4160 9170	5540 12210	2860 6310	4070 8970	2030 4480	3360 7410	1640 3620	10.18 (33.4)
-1.5m (-5ft)	kg lb	*9080 *20020	*9080 *20020	*13310 *29340	12560 27690	12890 28420	6250 13780	7790 17170	3950 8710	5400 11900	2730 6020			3690 8140	1830 4030	9.62 (31.6)
-3.0m (-10ft)	kg lb	*12220 *26940	*12220 *26940	*16960 *37390	12660 27910	12820 28260	6190 13650	7710 17000	3880 8550	5370 11840	2700 5950			4390 9680	2240 4940	8.71 (28.6)
-4.5m (-15ft)	kg lb	*15960 *35190	*15960 *35190	*18260 *40260	13010 28680	*12250 *27010	6330 13960	7820 17240	3970 8750					*5900 *13010	3190 7030	7.30 (24.0)

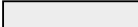


6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

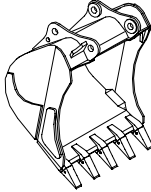
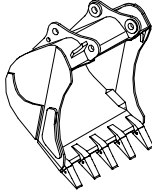
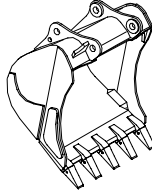
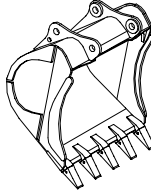
			
0.79m ³ SAE heaped bucket	1.03m ³ SAE heaped bucket	1.08m ³ SAE heaped bucket	1.50m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation			
					5.85m (19' 2") boom			
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.1m arm (6' 11")	2.5m arm (8' 2")	3.05m arm (10' 0")	3.6m arm (11' 10")
0.79m ³ (1.03yd ³)	0.70m ³ (0.92yd ³)	890mm (35.0")	1050mm (41.3")	740kg (1630lb)				
1.03m ³ (1.35yd ³)	0.90m ³ (1.18yd ³)	1090mm (42.9")	1230mm (48.4")	850kg (1870lb)				
1.08m ³ (1.41yd ³)	0.95m ³ (1.24yd ³)	1130mm (44.5")	1250mm (49.2")	890kg (1960lb)				
1.50m ³ (1.96yd ³)	1.30m ³ (1.70yd ³)	1490mm (58.7")	1610mm (63.4")	1020kg (2250lb)				

: Standard bucket

-  Applicable for materials with density of 2000kg/m³ (3370lb/yd³) or less
-  Applicable for materials with density of 1600kg/m³ (2700lb/yd³) or less
-  Applicable for materials with density of 1100kg/m³ (1850lb/yd³) or less


2) ROCK AND HEAVY DUTY BUCKET


			
1.07m ³ SAE heaped bucket	1.27m ³ SAE heaped bucket	1.46m ³ SAE heaped bucket	⚡1.16m ³ SAE heaped bucket


Capacity		Width		Weight	Recommendation			
SAE heaped	CECE heaped	Without side cutter	With side cutter		6.25m (20' 6") boom			
					2.1m arm (6' 11")	2.5m arm (8' 2")	3.05m arm (10' 0")	3.6m arm (11' 10")
1.07m ³ (1.40yd ³)	0.95m ³ (1.24yd ³)	1060mm (41.7")	-	1110kg (2430lb)				
1.27m ³ (1.66yd ³)	1.10m ³ (1.44yd ³)	1220mm (48.0")	-	1130kg (2490lb)				
1.46m ³ (1.91yd ³)	1.28m ³ (1.67yd ³)	1370mm (53.9")	-	1260kg (2780lb)				
⚡1.16m ³ (1.52yd ³)	1.00m ³ (1.31yd ³)	1305mm (51.6")	-	1260kg (2780lb)				

⚡ : Heavy duty bucket

⚡ : Rock bucket

 Applicable for materials with density of 2000kgf/m³ (3370lbf/yd³) or less

 Applicable for materials with density of 1600kgf/m³ (2700lbf/yd³) or less

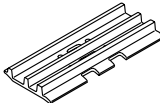
 Applicable for materials with density of 1100kgf/m³ (1850lbf/yd³) or less

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			
						
R250LC-7	Shoe width	mm(in)	600(24)	700(28)	800(32)	900(36)
	Operating weight	kg(lb)	25200(55600)	25500(26200)	25800(56900)	26100(57500)
	Ground pressure	kgf/cm ² (psi)	0.51(7.25)	0.44(6.26)	0.39(5.55)	0.35(4.98)
	Overall width	mm(ft-in)	3180(10' 5")	3280(10' 9")	3380(11' 1")	3480(11' 5")
R250NLC-7	Shoe width	mm(in)	600(24)	-	-	-
	Operating weight	kg(lb)	25100(55300)	-	-	-
	Ground pressure	kgf/cm ² (psi)	0.51(7.25)	-	-	-
	Overall width	mm(ft-in)	2980(9' 9")	-	-	-

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2EA
Track rollers	9EA
Track shoes	51EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes(Categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

Table 1

Track shoe	Specification	Category
600mm triple grouser	Standard	A
700mm triple grouser	Option	B
800mm triple grouser	Option	C
900mm triple grouser	Option	C

Table 2

Category	Applications	Precautions
A	Rocky ground, river beds, normal soil	<ul style="list-style-type: none"> Travel at low speed on rough ground with large obstacles such as boulders or fallen trees
B	Normal soil, soft ground	<ul style="list-style-type: none"> These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles
C	Extremely soft ground (Swampy ground)	<ul style="list-style-type: none"> Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins B5.9-C
Type	4-cycle turbocharged, charger air coded 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 × 120mm(4.0" × 4.7")
Piston displacement	5880cc(359cu in)
Compression ratio	17.3 : 1
Rated gross horse power(SAE J1995)	178Hp at 2000rpm(133kW at 2000rpm)
Maximum torque	72.2kgf · m(522lb · ft) at 1500rpm
Engine oil quantity	24 (4.9U.S. gal)
Dry weight	506kg(1115lb)
High idling speed	2250+ 50rpm
Low idling speed	1050 ± 100rpm
Rated fuel consumption	167.0g/Hp · hr at 2000rpm
Starting motor	Nippon denso(24V-4.5kW)
Alternator	Delco Remy 24V-50A
Battery	2 × 12V × 100Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 112cc/rev
Maximum pressure	330kgf/cm ² (4690psi)[360kgf/cm ² (5120psi)]
Rated oil flow	2 × 224 /min (59.2U.S. gpm/ 49.3U.K. gpm)
Rated speed	2000rpm

[]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	35kgf/cm ² (500psi)
Rated oil flow	30 l /min(7.9U.S. gpm/6.6U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330kgf/cm ² (4690psi) [360kgf/cm ² (5120psi)]
Overload relief valve pressure	390kgf/cm ² (5550psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	151cc/rev
Relief pressure	275kgf/cm ² (3910psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	59kgf · m(426lb · ft)
Brake release pressure	33~50kgf/cm ² (430~710psi)
Reduction gear type	2 - stage planetary
Swing speed	12.6rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	330kgf/cm ² (4690psi)
Capacity(max / min)	134.7/82cc/rev
Reduction gear type	Cluster type
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	6.0kgf/cm ² (85psi)
Braking torque	40.6kgf · m(293lb · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	6.5kgf/cm ² (92psi)
	Maximum	26kgf/cm ² (370psi)
Single operation stroke	Lever	61mm(2.4in)
	Pedal	123mm(4.84in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia x Rod dia x Stroke	Ø 140 x Ø95 x 1345mm
	Cushion	Extend only
Arm cylinder	Bore dia x Rod dia x Stroke	Ø 150 x Ø100 x 1620mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia x Rod dia x Stroke	Ø 135 x Ø90 x 1185mm
	Cushion	Extend only

Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

Discoloration does not cause any harmful effect on the cylinder performance.

9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R250LC-7	Standard	600mm(24")	0.51kgf/cm ² (7.25psi)	51	3180mm(10' 5")
	Option	700mm(28")	0.44kgf/cm ² (6.26psi)	51	3280mm(10' 9")
		800mm(32")	0.39kgf/cm ² (5.55psi)	51	3380mm(11' 1")
		900mm(36")	0.35kgf/cm ² (4.98psi)	51	3480mm(11' 5")
R250NLC-7	Standard	600mm(24")	0.51kgf/cm ² (7.25psi)	51	2980mm(9' 9")

10) BUCKET

Item		Capacity		Tooth quantity	Width		
		PCSA heaped	CECE heaped		Without side cutter	With side cutter	
R250LC-7 R250NLC-7	Standard	1.08m ³ (1.41yd ³)	0.95m ³ (1.24yd ³)	5	1130mm(44.5")	1250mm(49.2")	
	Option		0.79m ³ (1.03yd ³)	0.70m ³ (0.92yd ³)	3	890mm(35.0")	1050mm(41.3")
			1.03m ³ (1.35yd ³)	0.90m ³ (1.18yd ³)	4	1090mm(42.9")	1230mm(48.4")
			1.07m ³ (1.40yd ³)	0.95m ³ (1.24yd ³)	5	1060mm(41.7")	-
			1.27m ³ (1.66yd ³)	1.10m ³ (1.44yd ³)	5	1220mm(48.0")	-
			1.46m ³ (1.91yd ³)	1.28m ³ (1.67yd ³)	5	1370mm(53.9")	-
			≡ 1.16m ³ (1.52yd ³)	1.00m ³ (1.31yd ³)	5	1305mm(51.6")	-
			1.50m ³ (1.96yd ³)	1.30m ³ (1.70yd ³)	6	1490mm(58.7")	1610mm(63.4")

: Heavy duty bucket

≡ : Rock bucket(Esco type)

9. RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity (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	24(6.3)						SAE 30			
					SAE 10W						
			SAE 10W-30								
					SAE 15W-40						
Swing drive	Gear oil	6.0(1.6)						SAE 85W-140			
Final drive		5.4 x 2 (1.4 x 2)									
Hydraulic tank	Hydraulic oil	Tank; 190(50.2) System; 300(79.3)	ISO VG 32								
			ISO VG 46								
			ISO VG 68								
Fuel tank	Diesel fuel	340(89.8)	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	45(11.9)						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