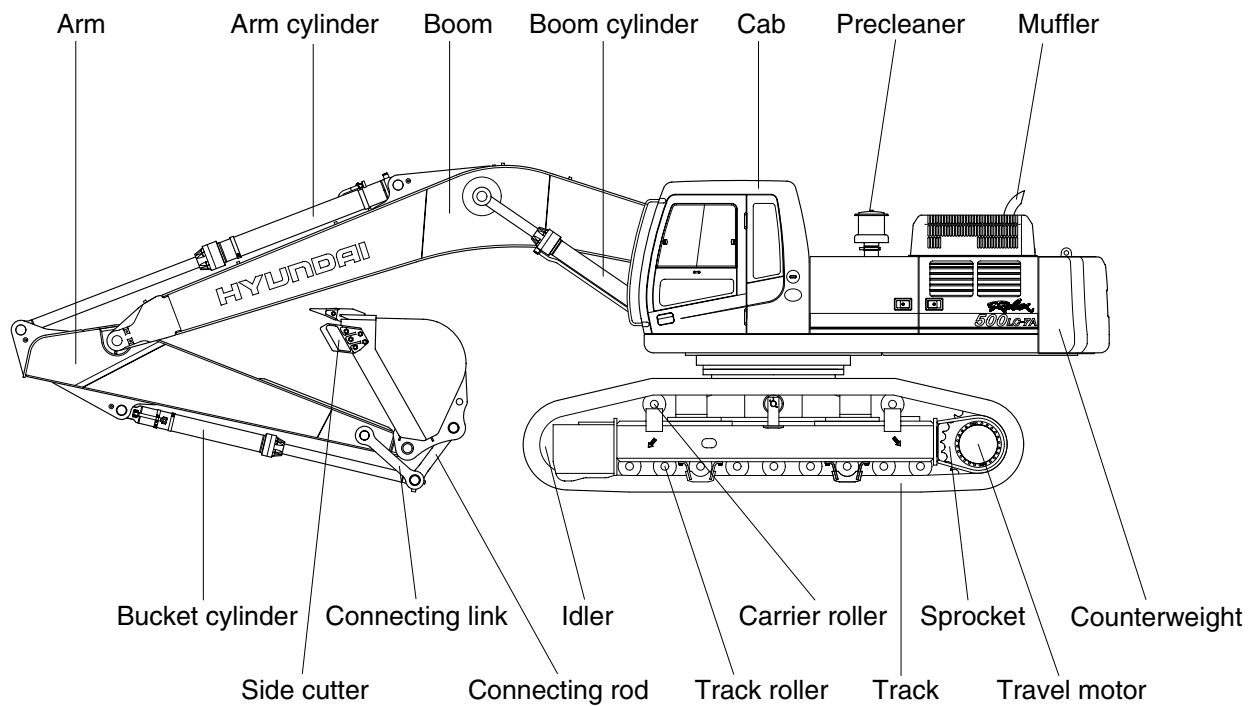
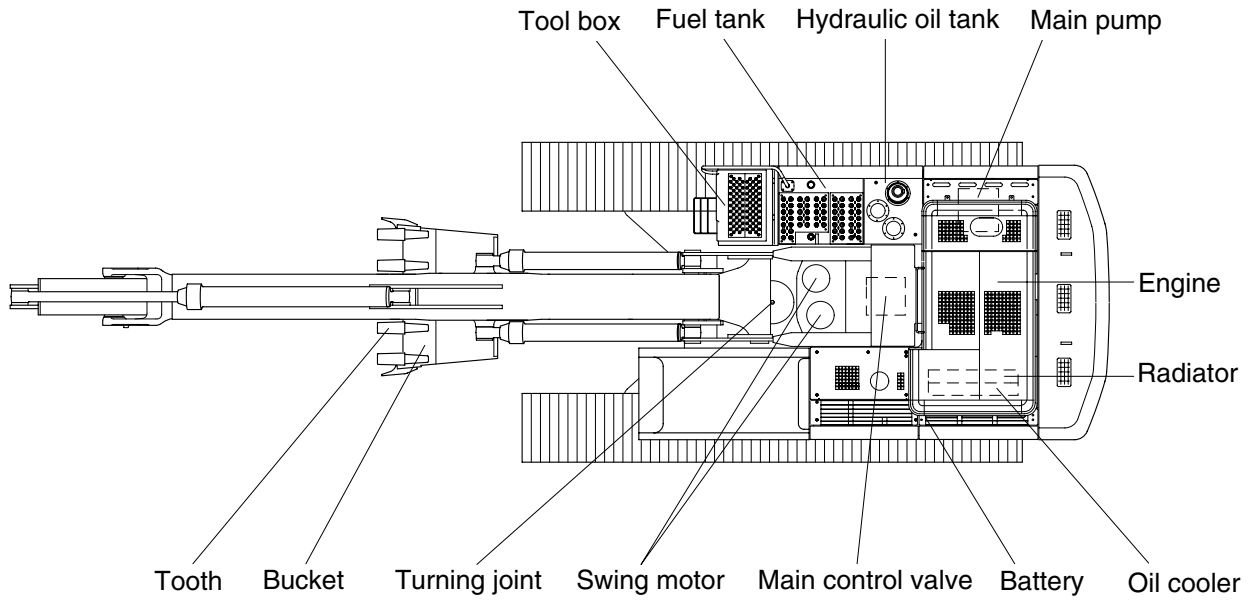


SPECIFICATIONS

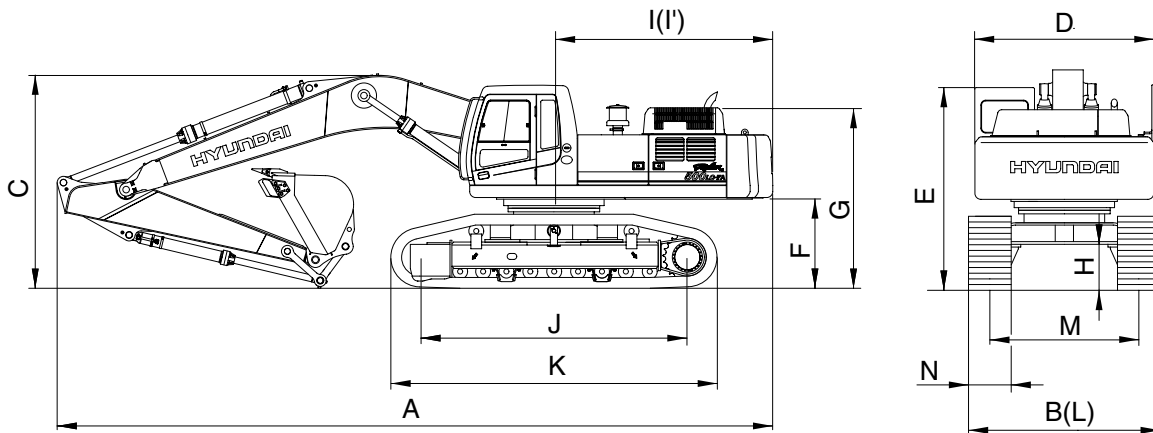
1. MAJOR COMPONENT



5007A2SP00

2. SPECIFICATIONS

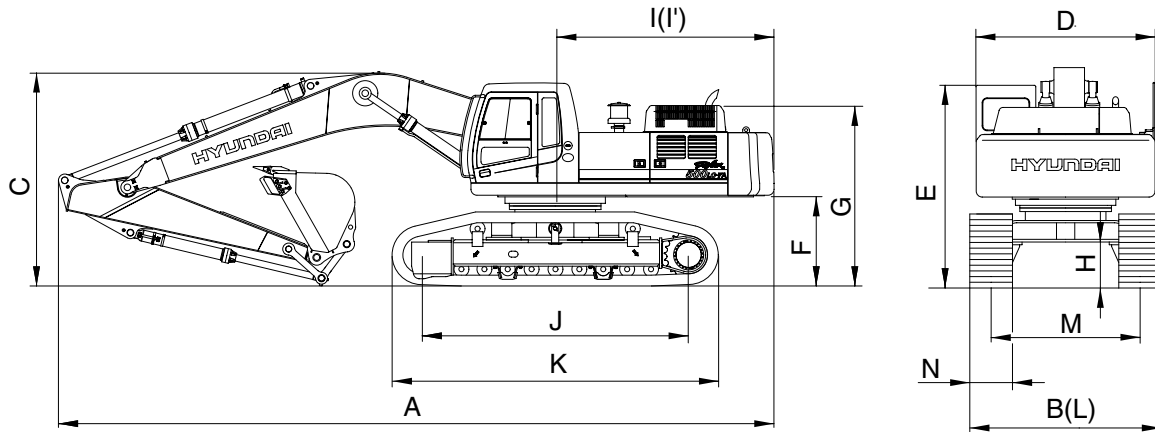
· 7.06m(23' 2") BOOM, 3.38m(11' 1") ARM



5007A2SP02

Description		Unit	Specification
Operating weight		kg(lb)	48800(107580)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	2.15(2.81)
Overall length	A	mm(ft-in)	12030(39' 6")
Overall width, with 600mm shoe (Transport position/Working position)	B		2990/3540(9'10"/11'7")
Overall height	C		3850(12' 8")
Superstructure width	D		2980(9' 9")
Overall height of cab	E		3390(11' 2")
Ground clearance of counterweight	F		1500(4'11")
Engine cover height	G		3015(9'11")
Minimum ground clearance	H		770(2' 6")
Rear-end distance	I		3665(12' 0")
Rear-end swing radius	I'		3720(12' 2")
Distance between tumblers	J		4470(14' 8")
Undercarriage length	K		5460(17'11")
Undercarriage width (Transport position/Working position)	L		2980/3540(9' 9"/11' 7")
Track gauge (Transport position/Working position)	M		2380/2940(7'10"/ 9' 8")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.3/5.2(2.0/3.2)
Swing speed		rpm	10.0
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm ² (psi)	0.86(12.2)

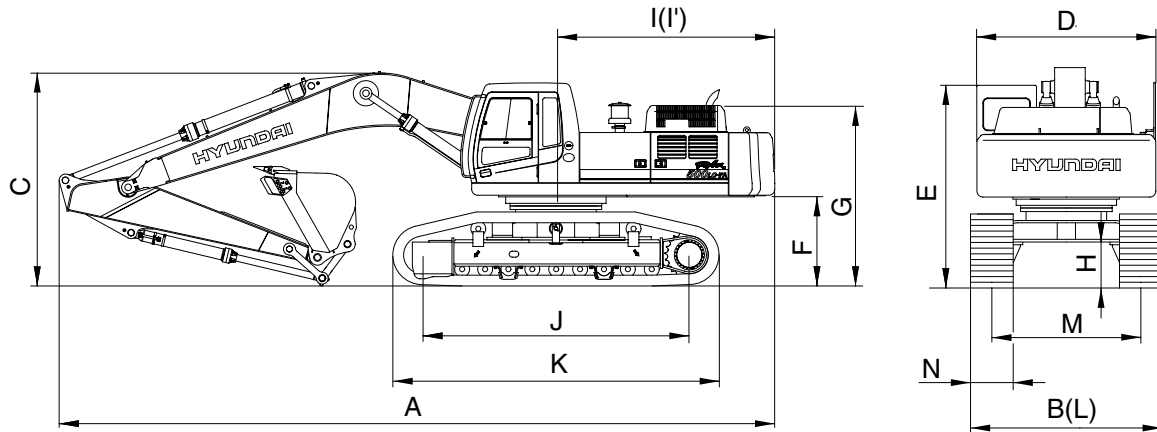
· 6.55m(21' 6") BOOM, 2.4m(7' 10")ARM



5007A2SP02

Description		Unit	Specification
Operating weight		kg(lb)	48570(107100)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	2.15(2.81)
Overall length	A	mm(ft-in)	11750(38' 7")
Overall width, with 600mm shoe (Transport position/Working position)	B		2990/3540(9'10"/11'7")
Overall height	C		4100(13' 5")
Superstructure width	D		2980(9' 9")
Overall height of cab	E		3390(11' 2")
Ground clearance of counterweight	F		1500(4'11")
Engine cover height	G		3015(9'11")
Minimum ground clearance	H		770(2' 6")
Rear-end distance	I		3665(12' 0")
Rear-end swing radius	I'		3720(12' 2")
Distance between tumbler	J		4470(14' 8")
Undercarriage length	K		5460(17'11")
Undercarriage width (Transport position/Working position)	L		2980/3540(9' 9"/11' 7")
Track gauge (Transport position/Working position)	M		2380/2940(7'10"/ 9' 8")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.3/5.2(2.0/3.2)
Swing speed		rpm	10.0
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm ² (psi)	0.86(12.2)

· 9.00m(29' 6") BOOM, 5.85m(19' 2") ARM

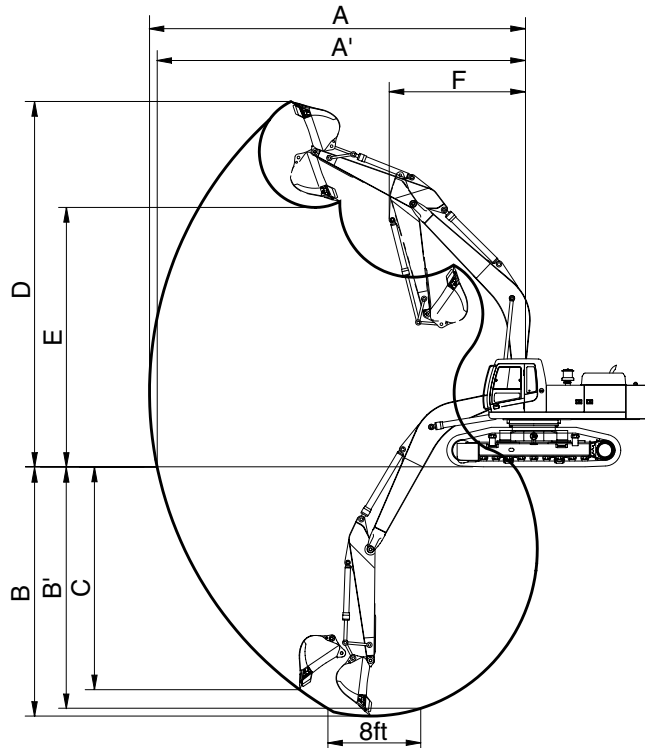


5007A2SP02

Description		Unit	Specification
Operating weight		kg(lb)	50180(110600)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	2.15(2.81)
Overall length	A	mm(ft-in)	13770(45' 2")
Overall width, with 600mm shoe (Transport position/Working position)	B		2990/3540(9'10"/11'7")
Overall height	C		5190(17' 0")
Superstructure width	D		2980(9' 9")
Overall height of cab	E		3390(11' 2")
Ground clearance of counterweight	F		1500(4'11")
Engine cover height	G		3015(9'11")
Minimum ground clearance	H		770(2' 6")
Rear-end distance	I		3665(12' 0")
Rear-end swing radius	I'		3720(12' 2")
Distance between tumbler	J		4470(14' 8")
Undercarriage length	K		5460(17'11")
Undercarriage width (Transport position/Working position)	L		2980/3540(9' 9"/11' 7")
Track gauge (Transport position/Working position)	M		2380/2940(7'10"/ 9' 8")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)			km/hr(mph)
Swing speed		rpm	10.0
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm ² (psi)	0.86(12.2)

3. WORKING RANGE

• 7.06m(23' 2") BOOM

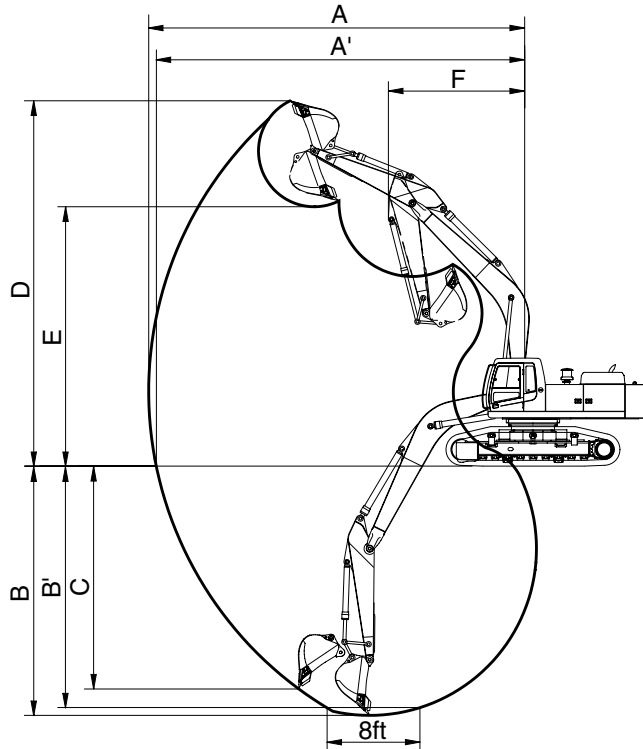


500072SP04

Description		2.40m(7'10") Arm	2.90m(9' 6") Arm	3.38m(11' 1") Arm	4.00m(13' 1") Arm	4.50m(14' 9") Arm
Max digging reach	A	11140mm (36' 7")	11530mm (37'10")	12080mm (39' 8")	12640mm (41' 6")	13130mm (43' 1")
Max digging reach on ground	A'	10890mm (35' 9")	11290mm (37' 0")	11840mm (38'10")	12420mm (40' 9")	12910mm (42' 4")
Max digging depth	B	6610mm (21' 8")	7110mm (23' 4")	7590mm (24'11")	8210mm (26'11")	8710mm (28' 7")
Max digging depth (8ft level)	B'	6430mm (21' 1")	6940mm (22' 9")	7440mm (24' 5")	8080mm (26' 6")	8590mm (28' 2")
Max vertical wall digging depth	C	4880mm (16' 0")	4780mm (15' 8")	5470mm (17'11")	5980mm (19' 7")	6480mm (21' 3")
Max digging height	D	10640mm (34'11")	10610mm (34'10")	11080mm (36' 4")	11290mm (37' 0")	11550mm (37'11")
Max dumping height	E	7290mm (23'11")	7350mm (24' 1")	7760mm (25' 6")	7980mm (26' 2")	8230mm (27' 0")
Min swing radius	F	5110mm (16' 9")	4910mm (16' 1")	4830mm (15'10")	4910mm (16' 1")	4960mm (16' 3")
Bucket digging force	SAE	247.1[269.6] kN	251.1[273.9] kN	253.0[276.0] kN	253.0[276.0] kN	253.0[276.0] kN
		25200[27490] kgf	25600[27930] kgf	25800[28150] kgf	25800[28150] kgf	25800[28150] kgf
		55560[60610] lbf	56440[61570] lbf	56880[62050] lbf	56880[62050] lbf	56880[62050] lbf
	ISO	286.4[312.4] kN	290.3[316.7] kN	292.2[318.8] kN	292.2[318.8] kN	292.2[318.8] kN
		29200[31850] kgf	29600[32290] kgf	29800[32510] kgf	29800[32510] kgf	29800[32510] kgf
		64370[70220] lbf	65260[71190] lbf	65700[71670] lbf	65700[71670] lbf	65700[71670] lbf
Arm crowd force	SAE	278.5[303.8] kN	225.6[246.1] kN	192.2[209.7] kN	171.6[187.2] kN	159.9[174.4] kN
		28400[30980] kgf	23000[25090] kgf	19600[21380] kgf	17500[19090] kgf	16300[17780] kgf
		62610[68300] lbf	50710[55320] lbf	43210[47140] lbf	38580[42090] lbf	35940[39210] lbf
	ISO	291.3[317.7] kN	235.4[256.8] kN	200.1[218.2] kN	177.5[193.6] kN	164.8[179.7] kN
		29700[32400] kgf	24000[26180] kgf	20400[22250] kgf	18100[19750] kgf	16800[18330] kgf
		65480[71430] lbf	52910[57720] lbf	44970[49060] lbf	39900[43530] lbf	37040[40410] lbf

[] : Power boost

• 6.55m(21' 6") BOOM

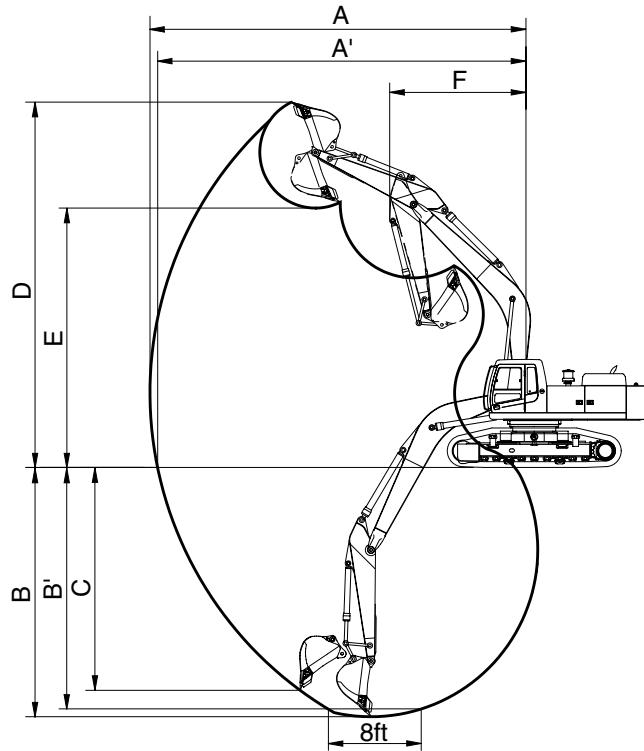


500072SP04

Description		2.40m(7' 10") Arm
Max digging reach	A	10590mm (34' 9")
Max digging reach on ground	A'	10320mm (33'10")
Max digging depth	B	6130mm (20' 1")
Max digging depth (8ft level)	B'	5950mm (19' 6")
Max vertical wall digging depth	C	4390mm (14' 5")
Max digging height	D	10260mm (33' 8")
Max dumping height	E	6920mm (22' 8")
Min swing radius	F	4650mm (15' 3")
Bucket digging force	SAE	247.1[269.6] kN
		25200[27490] kgf
		55560[60610] lbf
	ISO	286.4[312.4] kN
		29200[31850] kgf
		64370[70220] lbf
Arm crowd force	SAE	278.5[303.8] kN
		28400[30980] kgf
		62610[68300] lbf
	ISO	291.3[317.7] kN
		29700[32400] kgf
		65480[71430] lbf

[] : Power boost

· 9.00m(29' 6") BOOM



500072SP04

Description		5.85m(19' 2") Arm
Max digging reach	A	16280mm (53' 5")
Max digging reach on ground	A'	16100mm (52'10")
Max digging depth	B	11380mm (37' 4")
Max digging depth (8ft level)	B'	11280mm (37' 0")
Max vertical wall digging depth	C	10070mm (33' 0")
Max digging height	D	13930mm (45' 8")
Max dumping height	E	10530mm (34' 7")
Min swing radius	F	5940mm (19' 6")
Bucket digging force	SAE	251.1[273.9] kN
		25600[27930] kgf
		56440[61570] lbf
	ISO	296.2[323.1] kN
		30200[32950] kgf
		66580[72630] lbf
Arm crowd force	SAE	126.5[138.0] kN
		12900[14070] kgf
		28440[31030] lbf
	ISO	130.4[142.3] kN
		13300[14510] kgf
		29320[31990] lbf

[] : Power boost











4. WEIGHT

Item	R500LC-7A	
	kg	lb
Upperstructure assembly	24540	54100
Main frame weld assembly	3550	7830
Engine assembly	940	2070
Main pump assembly	180	400
Main control valve assembly	420	930
Swing motor assembly	230	510
Hydraulic oil tank assembly	450	990
Fuel tank assembly	250	550
Counterweight(for 7.06m boom)	10200	22500
Counterweight(for 9.0m boom)	10700	23590
Cab assembly	310	680
Lower chassis assembly	15200	33510
Lower track frame assy	8070	17790
Swing bearing	600	1320
Travel motor assembly	360	790
Turning joint	50	110
Track recoil spring and idler	300	660
Idler	250	550
Carrier roller	80	180
Track roller	80	180
Track-chain assembly(600mm standard triple grouser shoe)	6050	13330
Front attachment assembly(7.06m boom, 3.38m arm, 2.15m ³ SAE heaped bucket)	10160	22400
7.06m boom assembly	3310	7300
6.55m boom assy	3180	7010
9.0m boom assy	4060	8950
3.38m arm assembly	1450	3200
2.15m ³ SAE heaped bucket	2540	5600
Boom cylinder assembly	910	2010
Arm cylinder assembly	540	1190
Bucket cylinder assembly	300	660
Bucket control rod assembly	130	290

5. LIFTING CAPACITIES













1) 6.55m(21' 6") boom, 2.40m(7'10") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

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













Load point height		Load radius								At max. reach		
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		Capacity		Reach
												m(ft)
7.5m (25.0ft)	kg lb									*10150 *22380	8880 19580	8.27 (27.1)
6.0m (20.0ft)	kg lb					*13080 *28840	*13080 *28840	*11470 *25290	10290 22690	*9990 *22020	7350 16200	9.07 (29.8)
4.5m (15.0ft)	kg lb			*19660 *43340	*19660 *43340	*14710 *32430	14420 31790	*12180 *26850	9980 22000	*9970 *21980	6550 14440	9.53 (31.3)
3.0m (10.0ft)	kg lb					*16400 *36160	13610 30000	*13000 *28660	9580 21120	9970 21980	6190 13650	9.71 (31.9)
1.5m (5.0ft)	kg lb					*17480 *38540	12980 28620	*13580 *29940	9240 20370	9990 22020	6160 13580	9.62 (31.6)
Ground Line	kg lb			*23610 *52050	19860 43780	*17570 *38740	12640 27870	*13590 *29960	9010 19860	*10030 *22110	6510 14350	9.26 (30.4)
-1.5m (-5.0ft)	kg lb	*26350 *58090	*26350 *58090	*21600 *47620	19940 43960	*16560 *36510	12560 27690	*12700 *28000	8960 19750	*9750 *21500	7370 16250	8.59 (28.2)
-3.0m (-10.0ft)	kg lb	*22190 *48920	*22190 *48920	*18210 *40150	*18210 *40150	*14120 *31130	12730 28060			*8780 *19360	*8780 *19360	7.49 (24.6)
-4.5m (-15.0ft)	kg lb			*12470 *27490	*12470 *27490							

- 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) 7.06m(23' 2") boom, 2.40m(7' 10") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

Load point height		Load radius										At max. reach		
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		9.0m(30.0ft)		Capacity		Reach
														m(ft)
7.5m (25.0ft)	kg lb							*10340 *22800	*10340 *22800			*9180 *20240	7630 16820	8.92 (29.3)
6.0m (20.0ft)	kg lb					*12620 *27820	*12620 *27820	*10820 *23850	10180 22440			*9080 *20020	6440 14200	9.66 (31.7)
4.5m (15.0ft)	kg lb					*14390 *31720	14020 30910	*11680 *25750	9780 21560	*10120 *22310	7110 15670	*9080 *20020	5780 12740	10.10 (33.1)
3.0m (10.0ft)	kg lb					*16110 *35520	13140 28970	*12580 *27730	9330 20570	*10510 *23170	6910 15230	8950 19730	5480 12080	10.26 (33.7)
1.5m (5.0ft)	kg lb					*17120 *37740	12530 27620	*13210 *29120	8970 19780	*10760 *23720	6720 14820	8970 19780	5460 12040	10.18 (33.4)
Ground Line	kg lb					*17190 *37900	12240 26980	*13340 *29410	8740 19270			*9210 *20300	5730 12630	9.84 (32.3)
-1.5m (-5.0ft)	kg lb			*20900 *46080	19470 42920	*16330 *36000	12200 26900	*12750 *28110	8680 19140			*9040 *19930	6410 14130	9.22 (30.2)
-3.0m (-10.0ft)	kg lb	*21270 *46890	*21270 *46890	*18160 *40040	*18160 *40040	*14430 *31810	12370 27270	*11040 *24340	8820 19440			*8420 *18560	7840 17280	8.22 (27.0)
-4.5m (-15.0ft)	kg lb			*13760 *30340	*13760 *30340	*10760 *23720	*10760 *23720							















3) 7.06m(23' 2") boom, 2.90m(9' 6") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

Load point height		Load radius										At max. reach		
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		9.0m(30.0ft)		Capacity		Reach
														m(ft)
7.5m (25.0ft)	kg lb							*9570 *21100	*9570 *21100			*8450 *18630	7000 15430	9.38 (30.8)
6.0m (20.0ft)	kg lb							*10150 *22380	*10150 *22380			*8410 *18540	5960 13140	10.08 (33.1)
4.5m (15.0ft)	kg lb			*18310 *40370	*18310 *40370	*13530 *29830	*13530 *29830	*11080 *24430	9850 21720	*9630 *21230	7150 15760	*8460 *18650	5370 11840	10.50 (34.4)
3.0m (10.0ft)	kg lb			*22070 *48660	20540 45280	*15390 *33930	13290 29300	*12080 *26630	9370 20660	*10130 *22330	6900 15210	8380 18470	5080 11200	10.66 (35.0)
1.5m (5.0ft)	kg lb			*23640 *52120	19420 42810	*16690 *36800	12560 27690	*12870 *28370	8940 19710	*10520 *23190	6670 14700	8370 18450	5050 11130	10.58 (34.7)
Ground Line	kg lb			*23280 *51320	19120 42150	*17100 *37700	12160 26810	*13200 *29100	8660 19090	*10600 *23370	6510 14350	8740 19270	5270 11620	10.26 (33.7)
-1.5m (-5.0ft)	kg lb	*21630 *47690	*21630 *47690	*21870 *48220	19170 42260	*16590 *36570	12030 26520	*12890 *28420	8540 18830			*8740 *19270	5830 12850	9.66 (31.7)
-3.0m (-10.0ft)	kg lb	*24730 *54520	*24730 *54520	*19470 *42920	19440 42860	*15100 *33290	12130 26740	*11680 *25750	8610 18980			*8420 *18560	6980 15390	8.72 (28.6)
-4.5m (-15.0ft)	kg lb	*19310 *42570	*19310 *42570	*15640 *34480	*15640 *34480	*12190 *26870	*12190 *26870					*7260 *16010	*7260 *16010	7.30 (24.0)















4) 7.06m(23' 2") boom, 3.38m(11' 1") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

Load point height		Load radius										At max. reach				
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		9.0m(30.0ft)		Capacity		Reach		
														kg	lb	m(ft)
7.5m (25.0ft)	kg lb													*7940 *17500	6280 13850	10.00 (32.8)
6.0m (20.0ft)	kg lb							*9650 *21270	*9650 *21270	*8840 *19490	7490 16510	*7910 *17440	5420 11950	10.66 (35.0)		
4.5m (15.0ft)	kg lb			*17020 *37520	*17020 *37520	*12850 *28330	*12850 *28330	*10650 *23480	10010 22070	*9320 *20550	7270 16030	*7960 *17550	4930 10870	11.05 (36.3)		
3.0m (10.0ft)	kg lb			*21080 *46470	*21080 *46470	*14860 *32760	13540 29850	*11740 *25880	9510 20970	*9900 *21830	7000 15430	7740 17060	4690 10340	11.20 (36.7)		
1.5m (5.0ft)	kg lb			*23420 *51630	19860 43780	*16410 *36180	12770 28150	*12670 *27930	9050 19950	*10390 *22910	6740 14860	7730 17040	4650 10250	11.13 (36.5)		
Ground Line	kg lb			*23730 *52320	19320 42590	*17110 *37720	12290 27090	*13170 *29030	8730 19250	*10620 *23410	6540 14420	8030 17700	4830 10650	10.82 (35.5)		
-1.5m (-5.0ft)	kg lb	*19510 *43010	*19510 *43010	*22730 *50110	19240 42420	*16910 *37280	12090 26650	*13080 *28840	8570 18890	*10370 *22860	6450 14220	*8220 *18120	5280 11640	10.26 (33.7)		
-3.0m (-10.0ft)	kg lb	*26060 *57450	*26060 *57450	*20660 *45550	19410 42790	*15740 *34700	12110 26700	*12190 *26870	8570 18890			*8000 *17640	6180 13620	9.40 (30.8)		
-4.5m (-15.0ft)	kg lb	*22420 *49430	*22420 *49430	*17260 *38050	*17260 *38050	*13320 *29370	12340 27210	*9930 *21890	8780 19360			*7220 *15920	*7220 *15920	8.11 (26.6)		
-6.0m (-20.0ft)				*11650 *25680	*11650 *25680											















5) 7.06m(23' 2") boom, 4.00m(13' 1") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

Load point height		Load radius										At max. reach				
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		9.0m(30.0ft)		10.5m(35.0ft)		Capacity		Reach
																kg
7.5m (25.0ft)	kg lb							*6430 *14180	*6430 *14180					*7150 *15760	5540 12210	10.64 (34.9)
6.0m (20.0ft)	kg lb							*8080 *17810	7550 16640					*7160 *15790	4820 10630	11.26 (36.9)
4.5m (15.0ft)	kg lb							*9790 *21580	*9790 *21580	*8640 *19050	7280 16050	*5420 *11950	5370 11840	*7220 *15920	4390 9680	11.62 (38.1)
3.0m (10.0ft)	kg lb			*19190 *42310	*19190 *42310	*13770 *30360	13720 30250	*10980 *24210	9540 21030	*9310 *20530	6970 15370	*7050 *15540	5210 11490	7030 15500	4170 9190	11.77 (38.6)
1.5m (5.0ft)	kg lb			*22280 *49120	20090 44290	*15580 *34350	12820 28260	*12050 *26570	9020 19890	*9920 *21870	6670 14700	*7850 *17310	5050 11130	7000 15430	4120 9080	(11.70) (38.4)
Ground Line	kg lb	*14150 *31200	*14150 *31200	*23440 *51680	19230 42390	*16640 *36680	12200 26900	*12770 *28150	8630 19030	*10320 *22750	6420 14150	*7150 *15760	4920 10850	7230 15940	4260 9390	11.41 (37.4)
-1.5m (-5.0ft)	kg lb	*18510 *40810	*18510 *40810	*23100 *50930	18930 41730	*16830 *37100	11890 26210	*12950 *28550	8390 18500	*10320 *22750	6270 13820			*7620 *16800	4620 10190	10.88 (35.7)
-3.0m (-10.0ft)	kg lb	*23660 *52160	*23660 *52160	*21570 *47550	18980 41840	*16090 *35470	11820 26060	*12430 *27400	8320 18340	*9680 *21340	6250 13780			*7550 *16640	5320 11730	10.08 (33.1)
-4.5m (-15.0ft)	kg lb	*25710 *56680	*25710 *56680	*18800 *41450	*18800 *41450	*14260 *31440	11960 26370	*10880 *23990	8430 18580					*7150 *15760	6680 14730	8.91 (29.2)
-6.0m (-20.0ft)	kg lb	*18640 *41090	*18640 *41090	*14220 *31350	*14220 *31350	*10710 *23610	*10710 *23610									

6) 7.06m(23' 2") boom, 4.50m(14' 9") arm equipped with 2.15m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,200kg(22,490lb) counterweight.

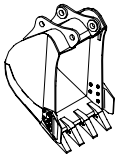
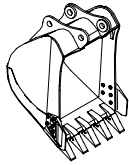
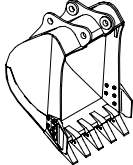
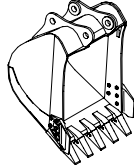
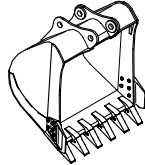
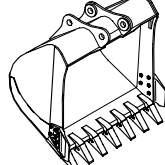
Load point height		Load radius												At max. reach		
		3.0m(10.0ft)		4.5m(15.0ft)		6.0m(20.0ft)		7.5m(25.0ft)		9.0m(30.0ft)		10.5m(35.0ft)		Capacity		Reach
																kg
7.5m (25.0ft)	kg lb									*6730 *14840	*6730 *14840			*6590 *14530	4990 11000	11.18 (36.7)
6.0m (20.0ft)	kg lb									*7500 *16530	*7500 *16530	*4930 *10870	*4930 *10870	*6620 *14590	4370 9630	11.76 (38.6)
4.5m (15.0ft)	kg lb							*9110 *20080	*9110 *20080	*8110 *17880	7320 16140	*6660 *14680	5390 11880	*6690 *14750	3990 8800	12.11 (39.7)
3.0m (10.0ft)	kg lb			*17640 *38890	*17640 *38890	*12870 *28370	*12870 *28370	*10360 *22840	9600 21160	*8840 *19490	6980 15390	*7820 *17240	5200 11460	6490 14310	3790 8360	12.25 (40.2)
1.5m (5.0ft)	kg lb			*21200 *46740	20380 44930	*14860 *32760	12910 28460	*11540 *25440	9040 19930	*9530 *21010	6640 14640	*8180 *18030	5000 11020	6450 14220	3740 8250	12.18 (40.0)
Ground Line	kg lb	*14310 *31550	*14310 *31550	*22980 *50660	19250 42440	*16190 *35690	12200 26900	*12400 *27340	8580 18920	*10040 *22130	6360 14020	8190 18060	4840 10670	6640 14640	3840 8470	11.91 (39.1)
-1.5m (-5.0ft)	kg lb	*17750 *39130	*17750 *39130	*23160 *51060	18780 41400	*16670 *36750	11780 25970	*12770 *28150	8290 18280	*10210 *22510	6170 13600	*7850 *17310	4740 10450	7110 15670	4140 9130	11.41 (37.4)
-3.0m (-10.0ft)	kg lb	*22170 *48880	*22170 *48880	*22090 *48700	18710 41250	*16250 *35830	11640 25660	*12510 *27580	8160 17990	*9840 *21690	6100 13450			*7120 *15700	4710 10380	10.65 (34.9)
-4.5m (-15.0ft)	kg lb	*27780 *61240	*27780 *61240	*19780 *43610	18920 41710	*14820 *32670	11710 25820	*11360 *25040	8210 18100	*8500 *18740	6190 13650			*6890 *15190	5790 12760	9.56 (31.4)
-6.0m (-20.0ft)	kg lb	*21610 *47640	*21610 *47640	*15870 *34990	*15870 *34990	*11960 *26370	*11960 *26370	*8670 *19110	8500 18740					*6000 *13230	*6000 *13230	7.98 (26.2)

7) 9.00m(29' 6") boom, 5.85m(19' 2") arm equipped with 1.65m³(SAE heaped) bucket, 600mm (24") triple grouser shoe and 10,700kg(23,590lb) counterweight.

Load point height		Load radius												At max. reach		
		3.0m(10.0ft)		5.0m(15.0ft)		7.0m(25.0ft)		9.0m(30.0ft)		11.0m(35.0ft)		13.0m(45.0ft)		Capacity		Reach
																kg
10.0m (35.0ft)	kg lb													*4350 *9590	3530 7780	13.66 (44.8)
8.0m (25.0ft)	kg lb									*4910 *10820	*4910 *10820	*2810 *6190	*2810 *6190	*4290 *9460	2860 6310	14.63 (48.0)
6.0m (20.0ft)	kg lb									*5320 *11730	*5320 *11730	*4370 *9630	3650 8050	*4290 *9460	2450 5400	15.25 (50.0)
4.0m (15.0ft)	kg lb					*9040 *19930	*9040 *19930	*7050 *15540	*7050 *15540	*5880 *12960	4990 11000	*5110 *11270	3450 7610	4200 9260	2200 4850	15.57 (51.1)
2.0m (-5.0ft)	kg lb			*16870 *37190	16620 36640	*10900 *24030	9970 21980	*8070 *17790	6630 14620	*6460 *14240	4600 10140	*5410 *11930	3230 7120	4080 8990	2100 4630	15.60 (51.2)
Ground Line	kg lb			*17270 *38070	15020 33110	*12210 *26920	9020 19890	*8880 *19580	6060 13360	*6930 *15280	4250 9370	5550 12240	3030 6680	4140 9130	2110 4650	15.35 (50.4)
-2.0m (-5.0ft)	kg lb	*11700 *25790	*11700 *25790	*18210 *40150	14440 31830	*12720 *28040	8480 18700	*9290 *20480	5680 12520	*7160 *15790	4010 8840	5400 11900	2890 6370	4390 9680	2270 5000	14.80 (48.6)
-4.0m (-15.0ft)	kg lb	*15000 *33070	*15000 *33070	*17860 *39370	14390 31720	*12450 *27450	8290 18280	*9180 *20240	5500 12130	*7000 *15430	3890 8580	*4190 *9240	2870 6330	*4530 *9990	2620 5780	13.91 (45.6)
-6.0m (-20.0ft)	kg lb	*18860 *41580	*18860 *41580	*15810 *34860	14660 32320	*11330 *24980	8360 18430	*8400 *18520	5530 12190	*6190 *13650	3940 8690			*4380 *9660	3290 7250	12.61 (41.4)
-8.0m (-25.0ft)	kg lb	*17900 *39460	*17900 *39460	*12440 *27430	*12440 *27430	*9090 *20040	8680 19140	*6540 *14420	5780 12740					*3820 *8420	*3820 *8420	10.72 (35.2)


6. BUCKET SELECTION GUIDE


1) GENERAL BUCKET


					
1.38m³ SAE ★1.38m³ SAE 1.65m³ SAE heaped bucket	★1.65m³ SAE 1.84m³ SAE heaped bucket	※2.15m³ SAE heaped bucket	2.56m³ SAE 2.79m³ SAE heaped bucket	3.03m³ SAE heaped bucket	3.20m³ SAE 3.60m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation							
SAE heaped	CECE heaped	Without side cutter	With side cutter		7.06m (23' 2") boom					6.55m(21'5") boom	9.00m(29'6") boom	
					2.4m arm (7' 10")	2.9m arm (9' 6")	3.38m arm (11' 1")	4.0m arm (13' 1")	4.5m arm (14' 9")	2.4m arm (7' 10")	5.85m arm (19' 2")	
1.38m³ (1.80yd³)	1.25m³ (1.63yd³)	995mm (39.2")	1145mm (45.1")	1420kg (3130lb)								
1.65m³ (2.16yd³)	1.48m³ (1.94yd³)	1140mm (44.9")	1290mm (50.8")	1520kg (3350lb)								
1.84m³ (2.41yd³)	1.65m³ (2.16yd³)	1245mm (49.0")	1395mm (54.9")	1630kg (3590lb)								
※2.15m³ (2.81yd³)	1.92m³ (2.51yd³)	1415mm (55.7")	1565mm (61.6")	1740kg (3840lb)								
2.56m³ (3.35yd³)	2.27m³ (2.97yd³)	1635mm (64.4")	1785mm (70.3")	1870kg (4120lb)								
2.79m³ (3.65yd³)	2.47m³ (3.23yd³)	1760mm (69.3")	1910mm (75.2")	1960kg (4320lb)								
3.03m³ (3.96yd³)	2.67m³ (3.49yd³)	1890mm (74.4")	2040mm (80.3")	2090kg (4610lb)								
3.20m³ (4.19yd³)	2.82m³ (3.69yd³)	1980mm (78.0")	2130mm (83.9")	2205kg (4860lb)								
3.60m³ (4.71yd³)	3.17m³ (4.15yd³)	2200mm (86.6")	2350mm (92.5")	2395kg (5280lb)								
★1.38m³ (1.80yd³)	1.20m³ (1.57yd³)	1100mm (43.3")	1250mm (49.2")	1360kg (3000lb)								
★1.65m³ (2.16yd³)	1.44m³ (1.88yd³)	1350mm (53.1")	1500mm (59.1")	1550kg (3420lb)								

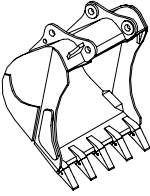
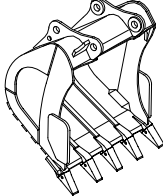
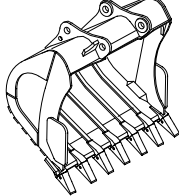
※ : Standard bucket, ★ : 9.00m Boom, 5.85m Arm only

 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

2) ROCK AND HEAVY DUTY BUCKET

		
◆ 2.2m ³ SAE heaped bucket	⊙ 1.8m ³ SAE ⊙ 2.2m ³ SAE ⊙ 2.43m ³ SAE heaped bucket	⊙ 3.20m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation					
					7.06m (23' 2") boom					6.55m boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.4m arm (7' 10")	2.9m arm (9' 6")	3.38m arm (11' 1")	4.0m arm (13' 1")	4.5m arm (14' 9")	2.4m arm (7' 10")
◆2.20m ³ (2.88yd ³)	1.80m ³ (2.35yd ³)	1840mm (72.4")	-	2170kg (4780lb)						
⊙1.80m ³ (2.35yd ³)	1.50m ³ (1.96yd ³)	1560mm (61.4")	-	2090kg (4610lb)						
⊙2.20m ³ (2.88yd ³)	1.80m ³ (2.35yd ³)	1835mm (72.2")	-	2295kg (5060lb)						
⊙2.43m ³ (3.18yd ³)	2.10m ³ (2.75yd ³)	1885mm (74.2")	-	2335kg (5150lb)						
⊙3.20m ³ (4.19yd ³)	2.80m ³ (3.66yd ³)	2095mm (82.5")	-	2900kg (6390lb)						

◆ : 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

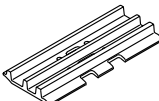
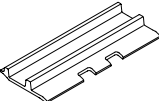
Applicable for materials with density of 1100kgf/m³ (1850lbf/yd³) or less

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				Double grouser	
								
R500LC-7A	Shoe width	mm(in)	600(24)	700(28)	750(30)	800(32)	600(24)	700(28)
	Operating weight	kg(lb)	48800(107580)	49340(108770)	49590(109330)	49850(109900)	48800(107580)	49340(108770)
	Ground pressure	kgf/cm ² (psi)	0.84(11.94)	0.73(10.38)	0.69(9.81)	0.65(9.24)	0.84(11.94)	0.73(10.38)
	Overall width	mm(ft-in)	3540(11' 7")	3640(11' 11")	3690(12' 1")	3740(12' 3")	3540(11' 7")	3640(11' 11")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	3EA
Track rollers	9EA
Track shoes	53EA

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
600mm double grouser	Option	A
700mm triple grouser, double grouser	Option	B
750mm triple grouser	Option	B
800mm 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 QSM 11
Type	4-cycle turbocharged charge air 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	125 × 147.1mm(4.92" × 5.79")
Piston displacement	10800cc(659cu in)
Compression ratio	16.3 : 1
Rated gross horse power(SAE J1995)	362ps at 1900rpm(357Hp / 266kW at 1900rpm)
Maximum torque	170.6kgf · m(1234lbf · ft) at 1400rpm
Engine oil quantity	37.85 l (10U.S. gal)
Dry weight	942kg(2077lb)
High idling speed	1850 ± 50rpm
Low idling speed	700 ± 50rpm
Rated fuel consumption	161.8g/Hp · hr at 1900rpm
Starting motor	Delco Remy 42MT (24V-7.2kW)
Alternator	Delco Remy 24V-50A
Battery	2 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 200cc/rev
Maximum pressure	330kgf/cm ² (4690psi)[360kgf/cm ² (5120psi)]
Rated oil flow	2 × 380 l /min (100.4U.S. gpm/83.6U.K. gpm)
Rated speed	1900rpm

[]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	35kgf/cm ² (498psi)
Rated oil flow	28.5 l /min(7.5U.S. gpm/6.3U.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	380kgf/cm ² (5400psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	148.5cc/rev
Relief pressure	285kgf/cm ² (4050psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	63kgf · m(456lb · ft)
Brake release pressure	23~50kgf/cm ² (327~711psi)
Reduction gear type	2 - stage planetary
Swing speed	10.0rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	345kgf/cm ² (4910psi)
Capacity(max / min)	160/100cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	17~50kgf/cm ² (242~711psi)
Braking torque	103kgf · m(745lb · 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 × Rod dia × Stroke	∅ 170 × ∅ 115 × 1570mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 190 × ∅ 130 × 1820mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 170 × ∅ 115 × 1370mm
	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
R500LC-7A	Standard	★600mm(24")	0.86kgf/cm ² (12.23psi)	53	3540mm(11' 7")
	Option	★700mm(28")	0.75kgf/cm ² (10.67psi)	53	3640mm(11' 11")
		★750mm(30")	0.70kgf/cm ² (9.96psi)	53	3690mm(12' 1")
		★800mm(32")	0.66kgf/cm ² (9.39psi)	53	3740mm(12' 3")
		※ 600mm(24")	0.86kgf/cm ² (12.23psi)	53	3540mm(11' 7")
		※ 700mm(28")	0.75kgf/cm ² (10.67psi)	53	3640mm(11' 11")

- ★ Triple grouser
- ※ Double grouser

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R500LC-7A	Standard	2.15m ³ (2.81yd ³)	1.92m ³ (2.51yd ³)	5	1415mm(55.7")	1565mm(61.6")
	Option	1.38m ³ (1.80yd ³)	1.25m ³ (1.63yd ³)	4	995mm(39.2")	1145mm(45.1")
		1.65m ³ (2.16yd ³)	1.48m ³ (1.94yd ³)	5	1140mm(44.9")	1290mm(50.8")
		1.84m ³ (2.41yd ³)	1.65m ³ (2.16yd ³)	5	1245mm(49.0")	1395mm(54.9")
		2.56m ³ (3.35yd ³)	2.27m ³ (2.97yd ³)	5	1635mm(64.4")	1785mm(70.3")
		2.79m ³ (3.65yd ³)	2.47m ³ (3.23yd ³)	5	1760mm(69.3")	1910mm(75.2")
		3.03m ³ (3.96yd ³)	2.67m ³ (3.49yd ³)	6	1890mm(74.4")	2040mm(80.3")
		3.20m ³ (4.19yd ³)	2.82m ³ (3.69yd ³)	7	1980mm(78.0")	2130mm(83.9")
		3.60m ³ (4.71yd ³)	3.17m ³ (4.15yd ³)	7	2200mm(86.6")	2350mm(92.5")
		★1.38m ³ (1.80yd ³)	1.20m ³ (1.57yd ³)	4	1100mm(43.3")	1250mm(49.2")
		★1.65m ³ (2.16yd ³)	1.44m ³ (1.88yd ³)	5	1350mm(53.1")	1500mm(59.1")
		◆2.20m ³ (2.88yd ³)	1.80m ³ (2.35yd ³)	5	1840mm(71.3")	-
		◎1.80m ³ (2.35yd ³)	1.50m ³ (1.96yd ³)	5	1560mm(61.4")	-
		◎2.20m ³ (2.88yd ³)	1.80m ³ (2.35yd ³)	5	1810mm(71.3")	-
		◎2.43m ³ (3.18yd ³)	2.10m ³ (2.75yd ³)	5	1860mm(73.2")	-
		◎3.20m ³ (4.19yd ³)	2.80m ³ (3.66yd ³)	7	2080mm(81.9")	-

★ : 9.00m Boom, 5.85m Arm only

◆ : 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 l (U.S. gal)	Ambient temperature °C (°F)					
			-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)
Engine oil pan	Engine oil	38(10)	SAE 30					
			SAE 10W					
			SAE 10W-30					
			SAE 15W-40					
Swing drive	Gear oil	5.0×2 (1.3×2)	SAE 85W-140					
Final drive		5.0×2 (1.3×2)						
Hydraulic tank	Hydraulic oil	Tank; 250(66)	ISO VG 32					
		System; 380(100)	ISO VG 46					
			ISO VG 68					
Fuel tank	Diesel fuel	610(161)	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	50(13.2)	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