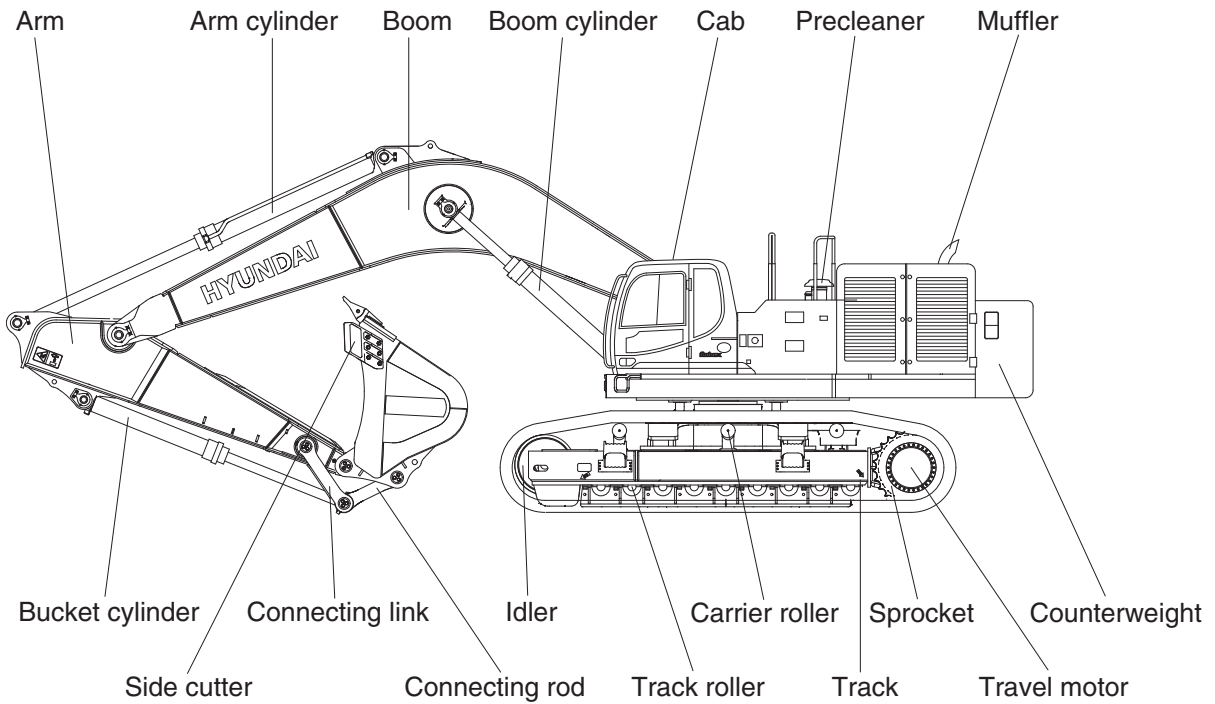
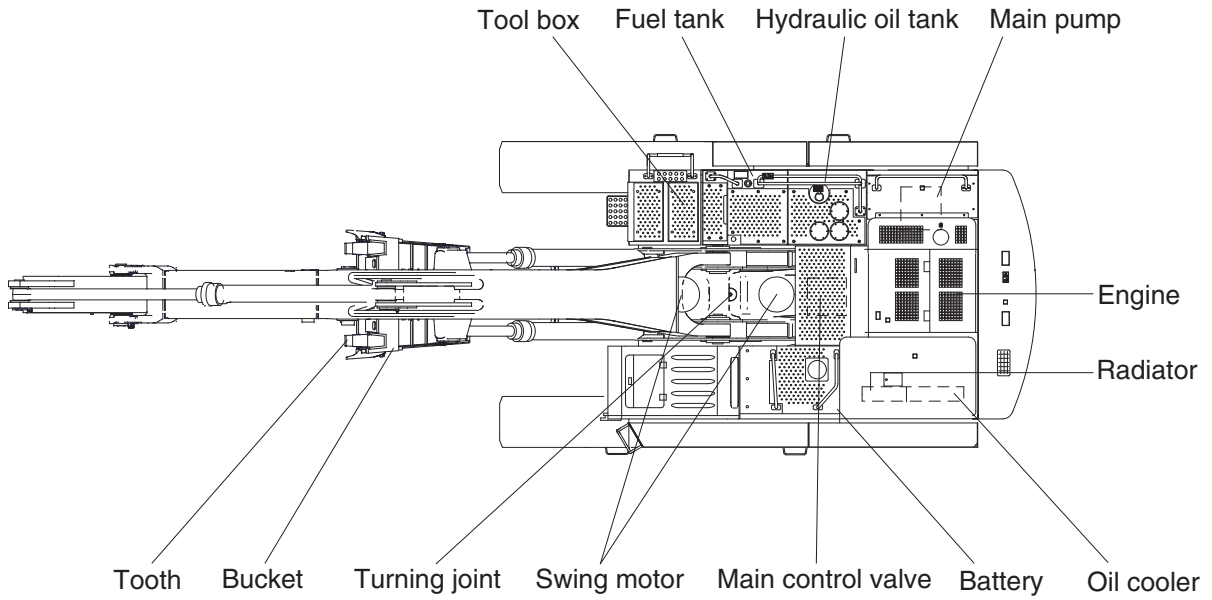


GROUP 2 SPECIFICATIONS

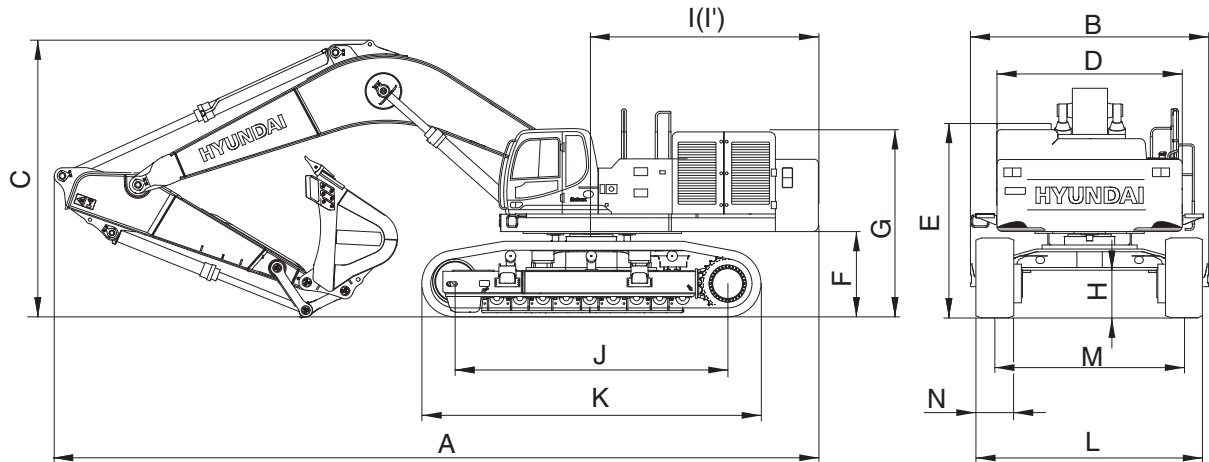
1. MAJOR COMPONENT



80092SP01

2. SPECIFICATIONS

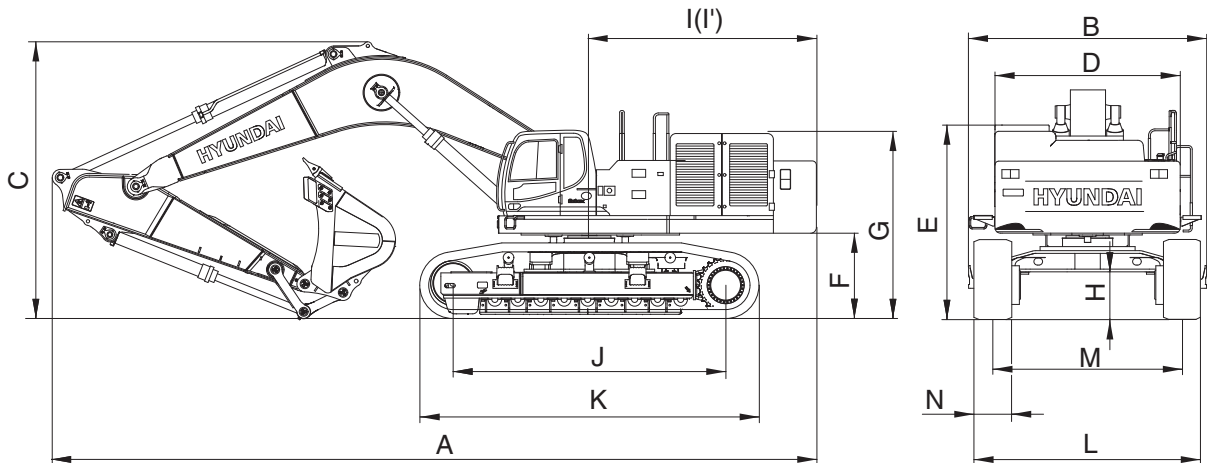
- 7.20 m (23' 7") BOOM, 2.95 m (9' 8") ARM



80092SP02

Description		Unit	Specification
Operating weight		kg (lb)	83120 (183250)
Bucket capacity(SAE heaped), standard		m ³ (yd ³)	4.53 (5.93)
Overall length	A	mm (ft-in)	13100 (43' 0")
Overall width, with 700mm shoe (Transport position/Working position)	B		3675/4395 (12' 1 1/4' 5")
Overall height	C		5040 (16' 6")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3830 (12' 7")
Ground clearance of counterweight	F		1570 (5' 2")
Engine cover height	G		3480 (11' 5")
Minimum ground clearance	H		928 (3' 1")
Rear-end distance	I		4200 (13' 9")
Rear-end swing radius	I'		4315 (14' 2")
Distance between tumbler	J		5030 (16' 6")
Undercarriage length	K		6335 (20' 9")
Undercarriage width (Transport position/Working position)	L		3480/4200 (11' 5"/13' 9")
Track gauge (Transport position/Working position)	M		2780/3500 (9' 1"/11' 6")
Track shoe width, standard	N		700 (28")
Travel speed(Low/high)		km/hr (mph)	2.6/4.0 (1.6/2.5)
Swing speed		rpm	6.5
Gradeability		Degree (%)	35 (70)
Ground pressure(700 mm shoe)		kgf/cm ² (psi)	1.08 (15.36)
Max traction force		kg (lb)	59300 (130730)

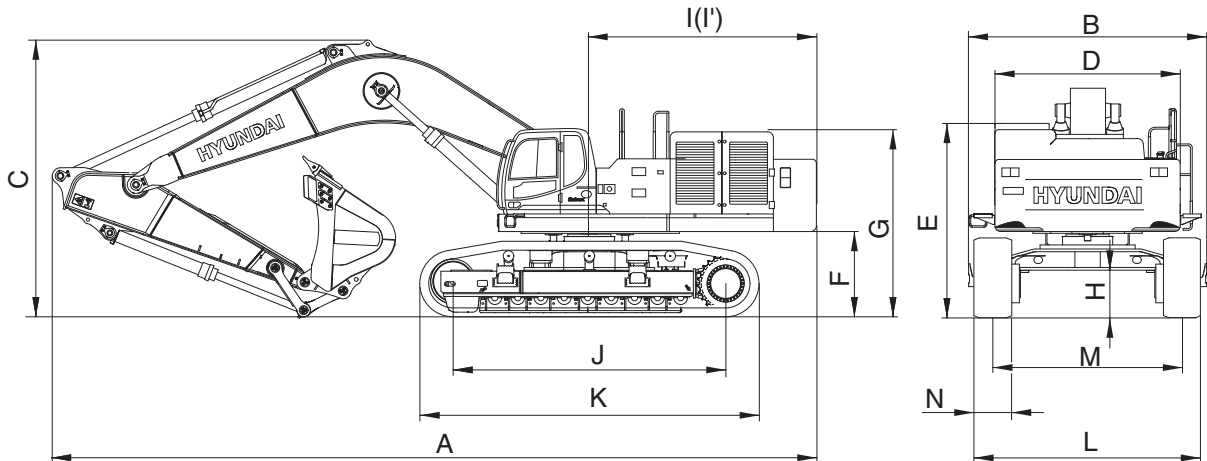
· 8.05 m (26' 5") BOOM, 3.40 m (11' 2") ARM



80092SP02

Description		Unit	Specification
Operating weight		kg (lb)	83600 (184300)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	3.40 (4.45)
Overall length	A	mm (ft-in)	13950 (45' 9")
Overall width, with 700 mm shoe (Transport position/Working position)	B		3675/4395 (12' 1"/14' 5")
Overall height	C		5360 (17' 7")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3580 (11' 9")
Ground clearance of counterweight	F		1570 (5' 2")
Engine cover height	G		3480 (11' 5")
Minimum ground clearance	H		928 (3' 1")
Rear-end distance	I		4200 (13' 9")
Rear-end swing radius	I'		4315 (14' 2")
Distance between tumbler	J		5030 (16' 6")
Undercarriage length	K		6335 (20' 9")
Undercarriage width (Transport position/Working position)	L		3480/4200 (11' 5"/13' 9")
Track gauge (Transport position/Working position)	M		2780/3500 (9' 1"/11' 6")
Track shoe width, standard	N		700 (28")
Travel speed (Low/high)		km/hr (mph)	2.6/4.0 (1.6/2.5)
Swing speed		rpm	6.3
Gradeability		Degree (%)	35 (70)
Ground pressure (700 mm shoe)		kgf/cm ² (psi)	1.09 (15.50)
Max traction force		kg (lb)	59300 (130730)

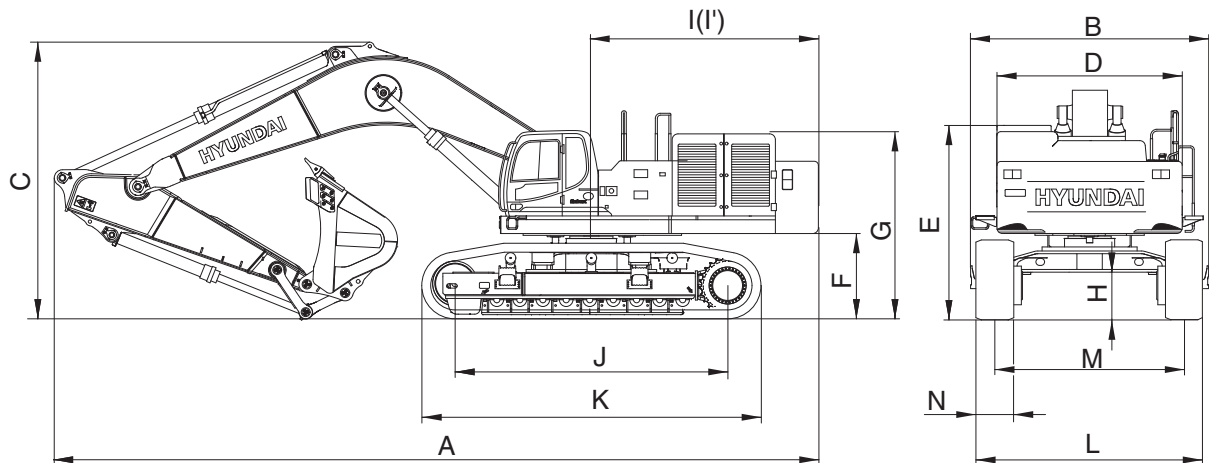
· 8.20 m (26' 11") BOOM, 3.60 m (11' 10") ARM



80092SP02

Description		Unit	Specification
Operating weight		kg (lb)	84300 (185850)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	3.40 (4.45)
Overall length	A	mm (ft-in)	14110 (46' 4")
Overall width, with 700 mm shoe (Transport position/Working position)	B		3675/4395 (12' 1"/14' 5")
Overall height	C		5390 (17' 8")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3580 (11' 9")
Ground clearance of counterweight	F		1570 (5' 2")
Engine cover height	G		3480 (11' 5")
Minimum ground clearance	H		928 (3' 1")
Rear-end distance	I		4200 (13' 9")
Rear-end swing radius	I'		4315 (14' 2")
Distance between tumbler	J		5030 (16' 6")
Undercarriage length	K		6335 (20' 9")
Undercarriage width (Transport position/Working position)	L		3480/4200 (11' 5"/13' 9")
Track gauge (Transport position/Working position)	M		2780/3500 (9' 1"/11' 6")
Track shoe width, standard	N		700 (28")
Travel speed (Low/high)		km/hr (mph)	2.6/4.0 (1.6/2.5)
Swing speed		rpm	6.3
Gradeability		Degree (%)	35 (70)
Ground pressure(700 mm shoe)		kgf/cm ² (psi)	1.10 (15.64)
Max traction force		kg (lb)	59300 (130730)

· 10.5 m (34' 5") BOOM, 6.50 m (21' 4") ARM

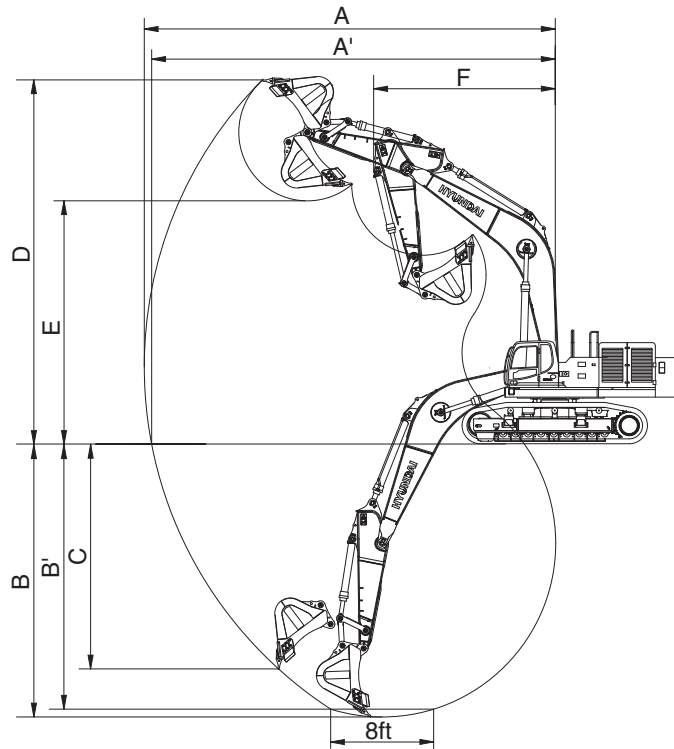


80092SP02

Description		Unit	Specification
Operating weight		kg (lb)	85420 (188320)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	2.56 (3.35)
Overall length	A	mm (ft-in)	16120 (52' 11")
Overall width, with 700 mm shoe (Transport position/Working position)	B		3675/4395 (12' 1"/14' 5")
Overall height	C		5500 (18' 1")
Superstructure width	D		3420 (11' 3")
Overall height of cab	E		3580 (11' 9")
Ground clearance of counterweight	F		1570 (5' 2")
Engine cover height	G		3480 (11' 5")
Minimum ground clearance	H		928 (3' 1")
Rear-end distance	I		4200 (13' 9")
Rear-end swing radius	I'		4315 (14' 2")
Distance between tumbler	J		5030 (16' 6")
Undercarriage length	K		6335 (20' 9")
Undercarriage width (Transport position/Working position)	L		3480/4200 (11' 5"/13' 9")
Track gauge (Transport position/Working position)	M		2780/3500 (9' 1"/11' 6")
Track shoe width, standard	N		700 (28")
Travel speed (Low/high)		km/hr (mph)	2.6/4.0 (1.6/2.5)
Swing speed		rpm	6.3
Gradeability		Degree (%)	35 (70)
Ground pressure(700 mm shoe)		kgf/cm ² (psi)	1.11 (15.78)
Max traction force		kg (lb)	59300 (130730)

3. WORKING RANGE

· 7.2 m (23' 7") BOOM

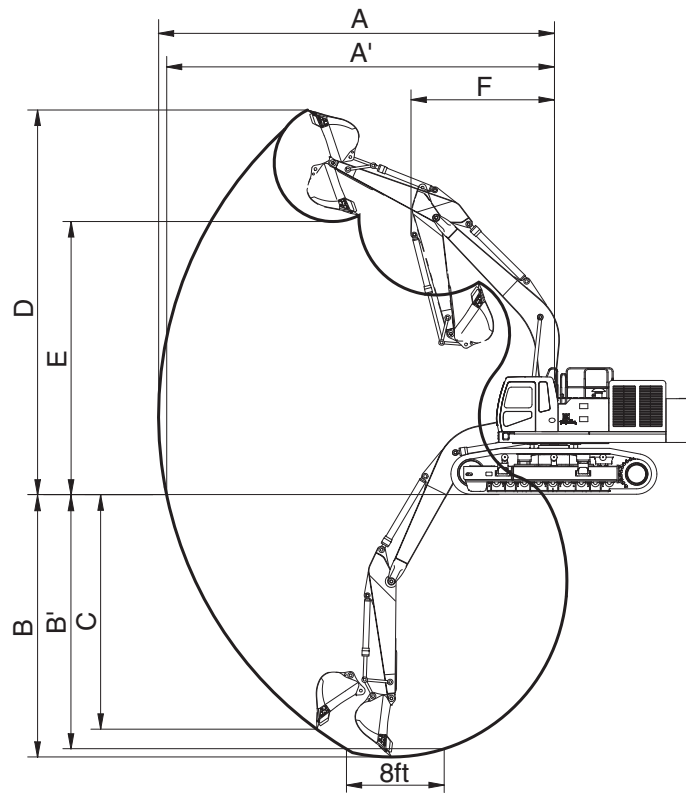


80092SP03

Description		2.95 m (9' 8") Arm
Max digging reach	A	12250 mm (40' 2")
Max digging reach on ground	A'	11970 mm (39' 3")
Max digging depth	B	7240 mm (23' 9")
Max digging depth (8ft level)	B'	7080 mm (23' 3")
Max vertical wall digging depth	C	5670 mm (18' 7")
Max digging height	D	11750 mm (38' 7")
Max dumping height	E	7500 mm (24' 7")
Min swing radius	F	5120 mm (16' 10")
Bucket digging force	SAE	388.3 [423.6] kN
		39600 [43200] kgf
		87300 [95240] lbf
	ISO	443.3 [483.6] kN
		45200 [49310] kgf
		99650 [108710] lbf
Arm crowd force	SAE	318.7 [347.7] kN
		32500 [35460] kgf
		71650 [78180] lbf
	ISO	333.4 [363.7] kN
		34000 [37090] kgf
		74960 [81770] lbf

[] : Power boost

· 8.05 m (26' 5") BOOM

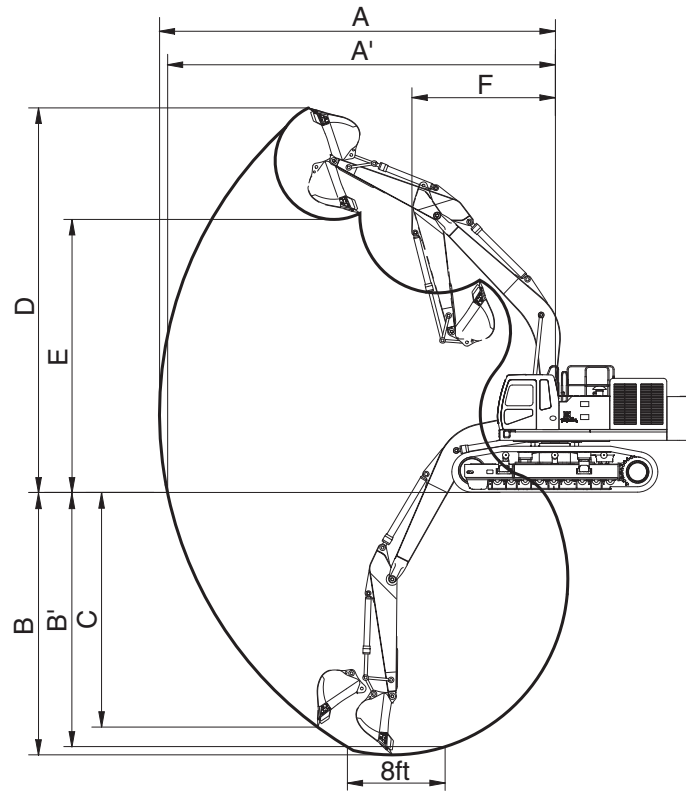


8007A2SP03

Description		3.40 m (11' 2") Arm
Max digging reach	A	13420 mm (44' 0")
Max digging reach on ground	A'	13160 mm (43' 2")
Max digging depth	B	8450 mm (27' 9")
Max digging depth (8ft level)	B'	8320 mm (27' 4")
Max vertical wall digging depth	C	6190 mm (20' 4")
Max digging height	D	11820 mm (38' 9")
Max dumping height	E	7740 mm (25' 5")
Min swing radius	F	6000 mm (19' 8")
Bucket digging force	SAE	336.4 [367.0] kN
		34300 [37420] kgf
		75620 [82500] lbf
	ISO	384.4 [419.3] kN
		39200 [42760] kgf
		86420 [94270] lbf
Arm crowd force	SAE	292.2 [318.8] kN
		29800 [32510] kgf
		65670 [71670] lbf
	ISO	305.0 [332.7] kN
		31100 [33930] kgf
		68560 [74800] lbf

[] : Power boost

· 8.20 m (26' 11") BOOM

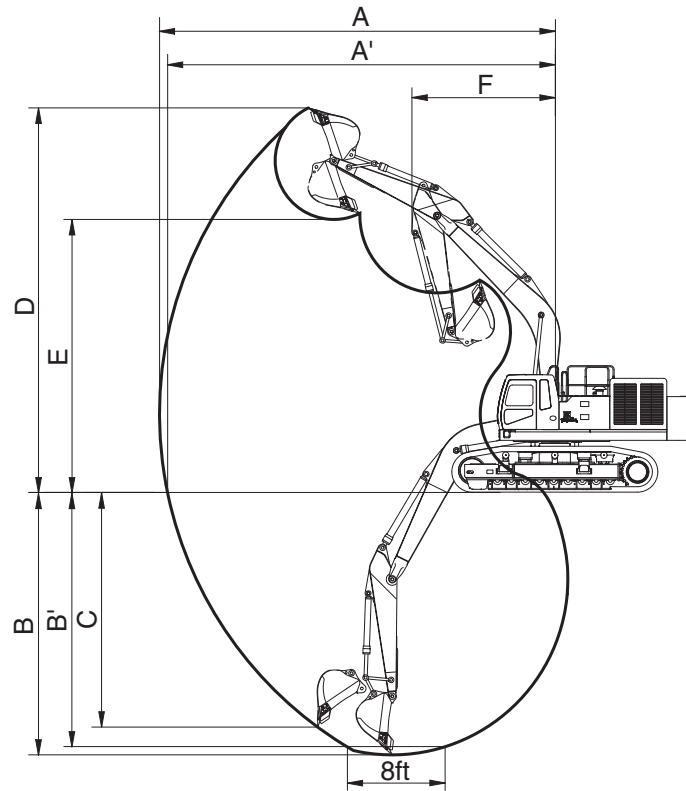


8007A2SP03

Description		3.60 m (11' 10") Arm
Max digging reach	A	13670 mm (44' 10")
Max digging reach on ground	A'	13420 mm (44' 0")
Max digging depth	B	8750 mm (28' 8")
Max digging depth (8ft level)	B'	8630 mm (28' 4")
Max vertical wall digging depth	C	6170 mm (20' 3")
Max digging height	D	11780 mm (38' 8")
Max dumping height	E	7770 mm (25' 6")
Min swing radius	F	6080 mm (19' 11")
Bucket digging force	SAE	336.4 [367.0] kN
		34300 [37420] kgf
		75620 [82500] lbf
	ISO	384.4 [419.3] kN
		39200 [42760] kgf
		86420 [94270] lbf
Arm crowd force	SAE	282.4 [308.1] kN
		28800 [31420] kgf
		63490 [69270] lbf
	ISO	294.2 [321.0] kN
		30000 [32730] kgf
		66140 [72160] lbf

[] : Power boost

· 10.5 m (34' 5") BOOM



8007A2SP03

Description		6.50 m (21' 4") Arm
Max digging reach	A	18470 mm (60' 7")
Max digging reach on ground	A'	18280 mm (60' 0")
Max digging depth	B	13040 mm (42' 9")
Max digging depth (8ft level)	B'	12940 mm (42' 5")
Max vertical wall digging depth	C	12190 mm (40' 0")
Max digging height	D	15050 mm (49' 5")
Max dumping height	E	11680 mm (38' 4")
Min swing radius	F	7620 mm (25' 0")
Bucket digging force	SAE	248.0 kN
		25290 kgf
		55750 lbf
	ISO	291.1 kN
		29680 kgf
		65430 lbf
Arm crowd force	SAE	181.4 kN
		18500 kgf
		40790 lbf
	ISO	186.1 kN
		18980 kgf
		41840 lbf

4. WEIGHT













Item		R850LC-9	
		kg	lb
Upperstructure assembly		37510	82700
Main frame weld assembly		7620	16800
Engine assembly		1450	3200
Main pump assembly		300	660
Main control valve assembly		420	930
Swing motor assembly		450	990
Hydraulic oil tank assembly		1860	4100
Fuel tank assembly		1825	4020
Counterweight	7.2, 8.05, 8.2 m boom	12500	27560
	10.5 m boom	15500	34170
Cab assembly		490	1080
Lower chassis assembly		26200	57760
Lower track frame assy		11960	26370
Swing bearing		1270	2800
Travel motor assembly		935	2060
Turning joint		75	165
Track recoil spring and tension body		740	1630
Idler		570	1260
Sprocket		240	530
Carrier roller		75	165
Track roller		185	410
Track-chain assembly (700 mm double grouser shoe)		4890	10780
Front attachment assembly (7.20 m boom, 2.95 m arm, 4.53 m ³ SAE heaped bucket)		18610	41030
7.20 m boom assembly		6370	14040
8.05 m boom assy		7020	15480
8.20 m boom assy		7480	16490
10.5 m boom assy		7230	15940
2.95 m arm assembly		2910	6420
3.40 m arm assembly		3070	6770
3.60 m arm assembly		3290	7250
6.50 m arm assembly		3600	7940
4.53 m ³ SAE heaped bucket		4190	9240
Boom cylinder assembly		1460	3220
Arm cylinder assembly		950	2090
Bucket cylinder assembly		760	1680
Bucket control rod assembly		410	900

5. LIFTING CAPACITIES

1) 7.20 m (23' 7") boom, 2.95 m (9' 8") arm equipped with 4.53 m³ (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

·  : Rating over-front

·  : Rating over-side or 360 degree















Load point height		Load radius										At max. reach		
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		Capacity		Reach
														m (ft)
9.0m (30.0ft)	kg lb											*13240 *29190	13230 29170	9.35 (30.7)
7.5m (25.0ft)	kg lb									*1950 *20710	*1950 *20710	*12490 *27540	10520 23190	10.28 (33.7)
6.0m (20.0ft)	kg lb							*17220 *37960	*17220 *37960	*14700 *32410	13810 30450	*12010 *26480	8990 19820	10.88 (35.7)
4.5m (15.0ft)	kg lb			*32860 *72440	*32860 *76440	*23600 *52030	*23600 *52030	*18560 *40920	*18560 *40920	*15320 *33770	13340 29410	*11640 *25660	8140 17950	11.22 (36.8)
3.0m (10.0ft)	kg lb			*37060 *81700	*37060 *81700	*25840 *56970	*25840 *56970	*19740 *43520	17990 39660	*15850 *34940	12790 28200	*11290 *24890	7760 17110	11.31 (37.1)
1.5m (5.0ft)	kg lb			*37380 *82410	*37380 *82410	*26820 *59130	25030 55180	*20330 *44820	17060 37610	*16020 *35320	12260 27030	*10860 *23940	7800 17200	11.18 (36.7)
Ground Lind	kg lb			*34900 *76940	*34900 *76940	*26180 *57720	24090 53110	*19990 *44070	16420 36200	*15520 *34220	11880 26190	*10220 *22490	8290 18280	10.80 (35.4)
-1.5m (-5.0ft)	kg lb	*32990 *72730	*32990 *72730	*30820 *67950	*30820 *67950	*23970 *52840	23750 52360	*18460 *40700	16120 35540	*13950 *30750	11710 25820	*9070 *20000	*9070 *20000	10.14 (33.3)
-3.0m (-10.0ft)	kg lb	*28600 *63050	*28600 *63050	*25100 *55340	*25100 *55340	*20080 *44270	*20080 *44270	*15360 *33860	*15360 *33860			*6950 *15320	*6950 *15320	9.15 (30.0)
-4.5m (-15.0ft)	kg lb			*17110 *37720	*17110 *37720	*13920 *30690	*13920 *30690							

- 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) 8.05 m (26' 5") boom, 3.40 m (11' 2") arm equipped with 3.4 m³ (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

Load point height		Load radius												At max. reach			
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)		Capacity		Reach	
																m (ft)	
10.5m (35.0ft)	kg lb														*11350 *25020	*11350 *25020	9.61 (31.5)
9.0m (30.0ft)	kg lb														*10840 *23900	*10840 *23900	10.76 (35.3)
7.5m (25.0ft)	kg lb								*12650 *27890	*12650 *27890					*10590 *23350	9140 20150	11.56 (37.9)
6.0m (20.0ft)	kg lb								*13400 *29540	*13400 *29540	*11780 *25970	10920 24070			*10470 *23080	8020 17680	12.09 (39.7)
4.5m (15.0ft)	kg lb			*31100 *68560	*31100 *68560	*21890 *48260	*21890 *48260	*17200 *37920	*17200 *37920	*14330 *31590	14240 31390	*12390 *27320	10540 23240	*10430 *22990	7350 16200	12.39 (40.6)	
3.0m (10.0ft)	kg lb					*24560 *54150	*24560 *54150	*18750 *41340	18410 40590	*15230 *33580	13470 29700	*12860 *28350	10100 22270	*10430 *22990	7010 15450	12.47 (40.9)	
1.5m (5.0ft)	kg lb					*26100 *57540	24700 54450	*19830 *43720	17290 38120	*15900 *35050	12770 28150	*13180 *29060	9680 21340	*10430 *22990	6960 15340	12.35 (40.5)	
Ground Line	kg lb			*28910 *63740	*28910 *63740	*26300 *57980	23680 52210	*20210 *44560	16510 36400	*16130 *35560	12240 26980	*13160 *29010	9340 20590	*10360 *22840	7230 15940	12.02 (39.4)	
-1.5m (-5.0ft)	kg lb	*25600 *56440	*25600 *56440	*32870 *72470	*32870 *72470	*25320 *55820	23260 51280	*19770 *43590	16080 35450	*15750 *34720	11910 26260	*12580 *27730	9160 20190	*10150 *22380	7890 17390	11.44 (37.5)	
-3.0m (-10.0ft)	kg lb	*33670 *74230	*33670 *74230	*29490 *65010	*29490 *65010	*23270 *51300	23260 51280	*18390 *40540	15970 35210	*14550 *32080	11820 26060			*9610 *21190	9180 20240	10.59 (34.7)	
-4.5m (-15.0ft)	kg lb	*29990 *66120	*29990 *66120	*24760 *54590	*24760 *54590	*19940 *43960	*19940 *43960	*15790 *34810	*15790 *34810					*8300 *18300	*8300 *18300	9.37 (30.7)	
-6.0m (-20.0ft)	kg lb			*17990 *39660	*17990 *39660	*14730 *32470	*14730 *32470	*11080 *24430	*11080 *24430								















3) 8.20 m (26' 11") boom, 3.60 m (11' 10") arm equipped with 3.4 m³ (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

Load point height		Load radius												At max. reach					
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)		Capacity		Reach			
																m (ft)			
10.5 m (35.0 ft)	kg																*9710	*9710	9.96
	lb																*21410	*21410	(32.7)
9.0 m (30.0 ft)	kg																*9250	*9250	11.06
	lb																*20390	*20390	(36.3)
7.5 m (25.0 ft)	kg									*11260	*11260	*8340	*8340	*9020	7830	11.84			
	lb									*24820	*24820	*18390	*18390	*19890	17260	(38.8)			
6.0 m (20.0 ft)	kg									*12020	*12020	*10540	10140	*8920	6760	12.36			
	lb									*26500	*26500	*23240	22350	*19670	14900	(40.6)			
4.5 m (15.0 ft)	kg			*29330	*29330	*20370	*20370	*15760	*15760	*12950	*12950	*11040	9700	*8900	6110	12.65			
	lb			*64660	*64660	*44910	*44910	*34740	*34740	*28550	*28550	*24340	21380	*19620	13470	(41.5)			
3.0 m (10.0 ft)	kg					*22960	*22960	*17280	*17280	*13850	12520	*11540	9200	*8910	5760	12.73			
	lb					*50620	*50620	*38100	*38100	*30530	27600	*25440	20280	*19640	12700	(41.8)			
1.5 m (5.0 ft)	kg					*24480	23410	*18350	16180	*14520	11760	*11890	8720	*8930	8690	12.61			
	lb					*53970	51610	*40450	35670	*32010	25930	*26210	19220	*19690	12540	(41.4)			
Ground Line	kg			*28020	*28020	*24720	22290	*18760	15330	*14790	11170	*11940	8350	*8900	5910	12.28			
	lb			*61770	*61770	*54500	49140	*41360	33800	*32610	24630	*26320	18410	*19620	13030	(40.3)			
-1.5 m (-5.0 ft)	kg	*24830	*24830	*31320	*31320	*23850	21820	*18410	14850	*14510	10810	*11510	8130	*8760	6490	11.72			
	lb	*54740	*54740	*69050	*69050	*52580	48100	*40590	32740	*31990	23830	*25380	17920	*19310	14310	(38.5)			
-3.0 m (-10.0 ft)	kg	*32270	*32270	*28170	*28170	*21980	21810	*17200	14720	*13490	10690			*8340	7630	10.90			
	lb	*71140	*71140	*62100	*62100	*48460	48080	*37920	32450	*29740	23570			*18390	16820	(35.8)			
-4.5 m (-15.0 ft)	kg	*29280	*29280	*23800	*23800	*18960	*18960	*14900	*14900	*11340	10860			*7310	*7310	9.72			
	lb	*64550	*64550	*52470	*52470	*41800	*41800	*32850	*32850	*25000	23940			*16120	*16120	(31.9)			
-6.0 m (-20.0 ft)	kg			*17630	*17630	*14310	*14310	*10890	*10890										
	lb			*38870	*38870	*31550	*31550	*24010	*24010										

4) 10.5 m (34' 5") boom, 6.50 m (21' 4") arm equipped with 2.56 m³ (SAE heaped) bucket, 700 mm (28") double grouser shoe and 15,500 kg (34,170 lb) counterweight.

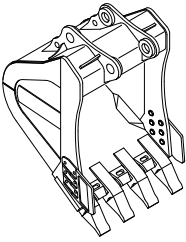
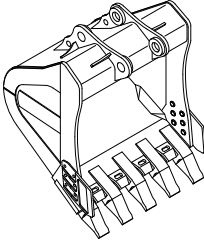
Load point height		Load radius														At max. reach				
		3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)		12.0 m (40.0 ft)		Capacity		Reach		
																		m (ft)		
12.0 m (40.0 ft)	kg																	*6740	*6740	15.14
	lb																	*14860	*14860	(49.7)
10.5 m (35.0 ft)	kg																	*6540	6250	16.01
	lb																	*14420	13780	(52.5)
9.0 m (30.0 ft)	kg																	*6440	5550	16.68
	lb																	*14200	12240	(54.7)
7.5 m (25.0 ft)	kg																	*6320	5040	17.19
	lb																	*13930	11110	(56.4)
6.0 m (20.0 ft)	kg													*8800	*8800			*6240	4670	17.54
	lb													*19400	*19400			*13760	10300	(57.5)
4.5 m (15.0 ft)	kg								*12460	*12460	*10610	*10610		*9270	*9270			*6180	4410	17.74
	lb								*27470	*27470	*23390	*23390		*20440	*20440			*13620	9720	(58.2)
3.0 m (10.0 ft)	kg				*22220	*22220	*16780	*16780	*13490	*13490	*11300	*11300	*9730	9500				*6130	4250	17.81
	lb				*48990	*48990	*36990	*36990	*29740	*29740	*24910	*24910	*21450	20940				*13510	9370	(58.4)
1.5 m (5.0 ft)	kg				*23920	*23920	*18000	*18000	*14340	14310	*11880	11230	*10120	8980				*6080	4180	17.74
	lb				*52730	*52730	*39680	*39680	*31610	31550	*26190	24760	*22310	19800				*13400	9220	(58.2)
Ground Line	kg			*12960	*12960	*21520	*21520	*18680	17660	*14890	13460	*12280	10610	*10390	8530			*6030	4210	17.53
	lb			*28570	*28570	*47440	*47440	*41180	38930	*32830	29670	*27070	23390	*22910	18810			*13290	9280	(57.5)
-1.5 m (-5.0 ft)	kg	*11860	*11860	*15180	*15180	*22180	*22180	*18800	16930	*15080	12850	*12440	10130	*10480	8170			*5940	4340	17.17
	lb	*26150	*26150	*33470	*33470	*48900	*48900	*41450	37320	*33250	28330	*27430	22330	*23100	18010			*13100	9570	(56.3)
-3.0 m (-10.0 ft)	kg	*14720	*14720	*17880	*17880	*23250	*23250	*18390	16520	*14890	12470	*12310	9810	*10340	7920			*5820	4590	16.66
	lb	*32450	*32450	*39420	*39420	*51260	*51260	*40540	36420	*32830	27490	*27140	21630	*22800	17460			*12830	10120	(54.7)
-4.5 m (-15.0 ft)	kg	*17670	*17670	*20980	*20980	*21760	*21760	*17490	16380	*14300	12280	*11860	9640	*9920	7790			*5610	4990	15.99
	lb	*38960	*38960	*46250	*46250	*47970	*47970	*38560	36110	*31530	27070	*26150	21250	*21870	17170			*12370	11000	(52.5)
-6.0 m (-20.0 ft)	kg	*20850	*20850	*24540	*24540	*19720	*19720	*16090	*16090	*13260	12270	*11010	9620	*9110	7780			*5280	*5280	15.11
	lb	*45970	*45970	*54100	*54100	*43480	*43480	*35470	*35470	*29230	27050	*24270	21210	*20080	17150			*11640	*11640	(49.6)

5) 8.20 m (26' 11") boom, 3.40 m (11' 2") arm equipped with 3.4 m³ (SAE heaped) bucket, 700 mm (28") double grouser shoe and 12,500 kg (27,560 lb) counterweight.

Load point height	Load radius												At max. reach			
	3.0 m (10.0 ft)		4.5 m (15.0 ft)		6.0 m (20.0 ft)		7.5 m (25.0 ft)		9.0 m (30.0 ft)		10.5 m (35.0 ft)		Capacity		Reach	
															m (ft)	
10.5 m (35.0 ft)	kg													*10100	*10100	9.72
	lb													*22270	*22270	(31.9)
9.0 m (30.0 ft)	kg													*9610	*9610	10.86
	lb													*21190	*21190	(35.6)
7.5 m (25.0 ft)	kg							*11590	*11590					*9370	8150	11.65
	lb							*15550	*15550					*20660	17970	(38.2)
6.0 m (20.0 ft)	kg							*12350	*12350	*10810	10120			*9260	7040	12.17
	lb							*27230	*27230	*23830	22310			*20410	15520	(39.9)
4.5 m (15.0 ft)	kg		*30400	*30400	*20970	*20970	*16190	*16190	*13270	*13270	*11300	9710		*9230	6370	12.47
	lb		*67020	*67020	*46230	*46230	*35690	*35690	*29260	*29260	*24910	21410		*20350	14040	(40.9)
3.0 m (10.0 ft)	kg				*23470	*23470	*17670	17430	*14150	12570	*11770	9250		*9230	6020	12.55
	lb				*51740	*51740	*38960	38430	*31200	27710	*25950	20390		*20350	13270	(41.2)
1.5 m (5.0 ft)	kg				*24840	23450	*18670	16270	*14780	11850	*12080	8810		*9240	5970	12.43
	lb				*54760	51700	*41160	35870	*32580	26120	*26630	19420		*20370	13160	(40.8)
Ground Line	kg		*27690	*27690	*24910	22450	*18990	15470	*14990	11300	*12080	8460		*9200	6220	12.10
	lb		*61050	*61050	*54920	49490	*41870	34110	*33050	24910	*26630	18650		*20280	13710	(39.7)
-1.5 m (-5.0 ft)	kg	*25220	*25220	*30910	*30910	*23880	22070	*18530	15050	*14620	10970	*11550	8260	*9020	6850	11.53
	lb	*55600	*55600	*68140	*68140	*52650	48660	*40850	33180	*32230	24180	*25460	18210	*19890	15100	(37.8)
-3.0 m (-10.0 ft)	kg	*33240	*33240	*27670	*27670	*21860	*21860	*17190	14950	*13480	10890			*8540	8100	10.69
	lb	*73280	*73280	*61000	*61000	*48190	*48190	*37900	32960	*29720	24010			*18830	17860	(35.1)
-4.5 m (-15.0 ft)	kg	*27700	*27700	*23160	*23160	*18670	*18670	*14720	*14720	*11100	*11100			*7350	*7350	9.48
	lb	*61070	*61070	*51060	*51060	*41160	*41160	*32450	*32450	*24470	*24470			*16200	*16200	(31.1)
-6.0 m (-20.0 ft)	kg			*16770	*16770	*13750	*13750	*10370	*10370							
	lb			*36970	*36970	*30310	*30310	*22860	*22860							

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

	
1.65 m ³ SAE heaped bucket	2.56 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation	
					10.5 m (34'5") boom	11.3 m (37'1") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		6.5 m arm (21' 4")	8.0 m arm (26' 3")
1.65 m ³ (2.16 yd ³)	1.48 m ³ (1.94 yd ³)	1140 mm (44.9")	1290 mm (50.8")	1520 kg (3350 lb)	-	
2.56 m ³ (3.35 yd ³)	2.27 m ³ (2.97 yd ³)	1635 mm (64.4")	1785 mm (70.3")	1870 kg (4120 lb)		-

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 BUCKET

⊙ 3.40m³ SAE heaped bucket (A TYPE)	⊙ 3.40m³ SAE heaped bucket (B TYPE)	⊙ 4.04m³, 4.50m³ SAE heaped bucket	◆ 3.40m³ SAE heaped bucket	◆ 4.04m³, 4.50m³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
					7.2 m (23' 7") boom	8.05 m (26' 5") boom	8.2 m (26' 11") boom
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.95 m arm (9' 8")	3.40 m arm (11' 2")	3.60 m arm (11' 10")
⊙ 3.40 m³ (4.45 yd³) A TYPE	3.05 m³ (3.99 yd³)	1740 mm (68.5")	-	4600 kg (10140 lb)			
⊙ 3.40 m³ (4.45 yd³) B TYPE	2.97 m³ (3.88 yd³)	1700 mm (66.9")	-	3780 kg (8330 lb)			
⊙ 4.04 m³ (5.28 yd³)	3.60 m³ (4.71 yd³)	1970 mm (77.6")	-	5020 kg (11070 lb)			
⊙ 4.50 m³ (5.88 yd³)	3.99 m³ (5.22 yd³)	2130 mm (83.8")	-	5240 kg (11550 lb)			
◆ 3.40 m³ (4.45 yd³)	3.05 m³ (3.99 yd³)	1740 mm (68.5")	-	4670 kg (10230 lb)			
◆ 4.04 m³ (5.28 yd³)	3.60 m³ (4.71 yd³)	1970 mm (77.6")	-	4890 kg (10780 lb)			
◆ 4.50 m³ (5.88 yd³)	3.99 m³ (5.22 yd³)	2130 mm (83.8")	-	5240 kg (11550 lb)			

⊙ : Rock bucket ◆ : Heavy duty bucket

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

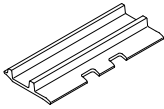
Applicable for materials with density of 1100 kg/m³ (1850 lb/yd³) or less

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		Double grouser		
					
R850LC-9	Shoe width	mm (in)	700 (28)	800 (32)	900 (36)
	Operating weight	kg (lb)	83400 (183860)	84270 (185780)	85150 (187720)
	Ground pressure	kgf/cm ² (psi)	1.08 (15.36)	0.96 (13.65)	0.86 (12.23)
	Overall width	mm (ft-in)	4200 (13' 9")	4300 (14' 1")	4400 (14' 5")

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	3EA
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
700 mm double grouser	Standard	A
800 mm double grouser	Option	B
900 mm double grouser	Option	C

※ **Table 2**

Category	Applications	Applications
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 QSX 15
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	137 × 169 mm (5.39" × 6.65")
Piston displacement	15000 cc (915 cu in)
Compression ratio	17 : 1
Rated gross horse power(SAE J1995)	510 hp at 1800 rpm (380 kW at 1800 rpm)
Maximum torque	241 kgf · m (1743 lbf · ft) at 1400 rpm
Engine oil quantity	45.4 ℓ (12 U.S. gal)
Dry weight	1451 kg (3200 lb)
High idling speed	1800 ± 50 rpm
Low idling speed	800 ± 50 rpm
Rated fuel consumption	165.5 g/Hp · hr at 1800 rpm
Starting motor	Prestolite MS7 (24V-9.0kW)
Alternator	Delco Remy 24V-100A
Battery	4 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 280 cc/rev
Maximum pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Rated oil flow	2 × 504 ℓ /min (133.1U.S. gpm/110.9U.K. gpm)
Rated speed	1800 rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15 cc/rev
Maximum pressure	40 kgf/cm ² (569 psi)
Rated oil flow	27 ℓ /min (7.1 U.S. gpm/5.9 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	330 kgf/cm ² (4690 psi) [360 kgf/cm ² (5120 psi)]
Overload relief valve pressure	380 kgf/cm ² (5400 psi)

[] : Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	250 cc/rev
Relief pressure	290 kgf/cm ² (4120 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	107 kgf · m (774 lbf · ft)
Brake release pressure	30~50 kgf/cm ² (427~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	350 kgf/cm ² (4980psi)
Capacity (max / min)	304.1/205.2 cc/rev
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	18 kgf/cm ² (256 psi)
Braking torque	114 kgf · m (825 lbf · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	6.5 kgf/cm ² (92 psi)
	Maximum	25 kgf/cm ² (360 psi)
Single operation stroke	Lever	61 mm (2.4 in)
	Pedal	123 mm (4.84 in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅200 × ∅140 × 1892 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅215 × ∅150 × 2250 mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅200 × ∅140 × 1593 mm
	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
R850LC-9	Standard	※ 700 mm (28")	1.08 kgf/cm ² (15.36 psi)	51	4200 mm (13' 9")
	Option	※ 800 mm (32")	0.95 kgf/cm ² (13.51 psi)	51	4300 mm (14' 1")
		※ 900 mm (36")	0.85 kgf/cm ² (12.09 psi)	51	4400 mm (14' 5")

※ Double grouser

10) BUCKET

Item		Capacity		Tooth quantity	Width	
		SAE heaped	CECE heaped		Without side cutter	With side cutter
R850LC-9	Standard	4.53 m ³ (5.93 yd ³)	3.95 m ³ (5.17 yd ³)	5	2040 mm (80.3")	2200 mm (86.6")
	Option	2.56 m ³ (3.35 yd ³)	2.27 m ³ (2.97 yd ³)	5	1635 mm (64.4")	1785 mm (70.3")
		3.40 m ³ (4.45 yd ³)	3.00 m ³ (3.92 yd ³)	4	1615 mm (63.6")	1775 mm (69.9")
		4.80 m ³ (6.28 yd ³)	4.19 m ³ (5.48 yd ³)	5	2135 mm (84.1")	2295 mm (90.4")
		5.10 m ³ (6.67 yd ³)	4.44 m ³ (5.81 yd ³)	6	2245 mm (88.4")	2405 mm (94.7")
		⊙3.40 m ³ (4.45 yd ³)	3.00 m ³ (3.92 yd ³)	4	1635 mm (64.4")	-
		⊙4.50 m ³ (5.86 yd ³)	3.94 m ³ (5.15 yd ³)	5	2050 mm (80.7")	-

⊙ : Rock bucket

9. RECOMMENDED OILS

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

Please use HYUNDAI genuine oil and grease.

Service point	Kind of fluid	Capacity ℓ (U.S. gal)	Ambient temperature °C (°F)							
			-50 (-58)	-30 (-22)	-20 (-4)	-10 (14)	0 (32)	10 (50)	20 (68)	30 (86)
Engine oil pan	Engine oil	43.5 (11.5)	★SAE 5W-40				SAE 30			
			SAE 10W				SAE 10W-30			
			SAE 15W-40							
Swing drive	Gear oil	8.0×2 (2.1×2)	★SAE 75W-90							
Final drive		20×2 (5.3×2)	SAE 80W-90							
Hydraulic tank	Hydraulic oil	Tank : 450 (119) System : 800 (210)	★ISO VG 15				ISO VG 32			
			ISO VG 46				ISO VG 68			
Fuel tank	Diesel fuel	940(248)	★ASTM D975 NO.1				ASTM D975 NO.2			
Lower roller	Gear oil	1.56 (0.4)	★SAE 75W-90							
Upper roller		0.6 (0.15)	SAE 85W-140							
Idler		1.1 (0.3)								
Fitting (grease nipple)	Grease	As required	★NLGI NO.1				NLGI NO.2			
Radiator (reservoir tank)	Mixture of antifreeze and soft water★1	65 (17)	Ethylene glycol base permanent type (50 : 50)							
			★Ethylene glycol base permanent type (60 : 40)							

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

★ : Cold region

Russia, CIS, Mongolia

★1 : Soft water

City water or distilled water