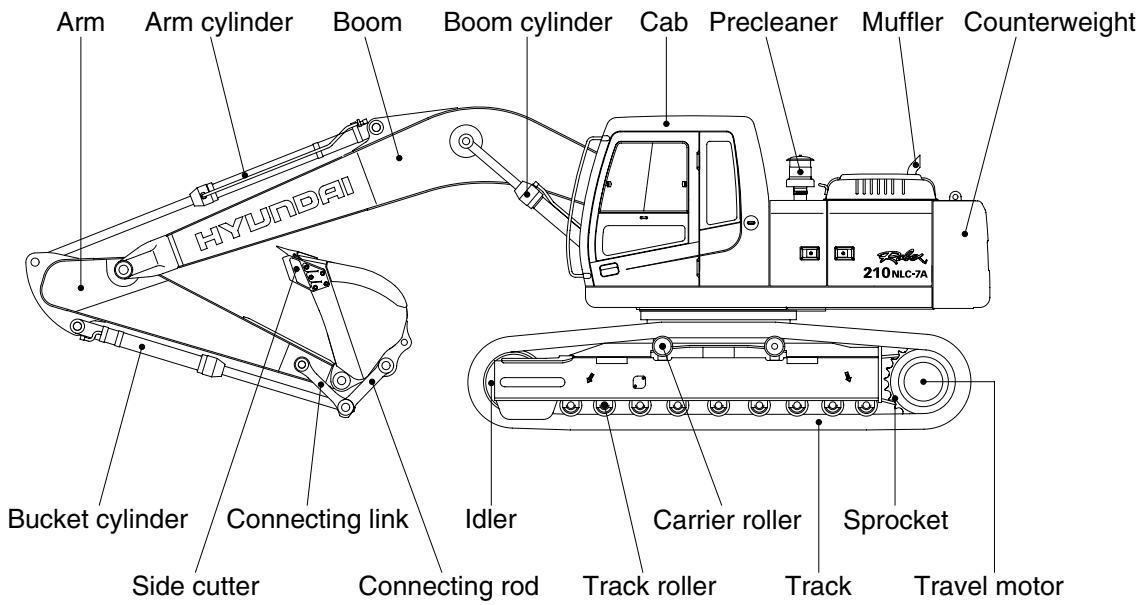
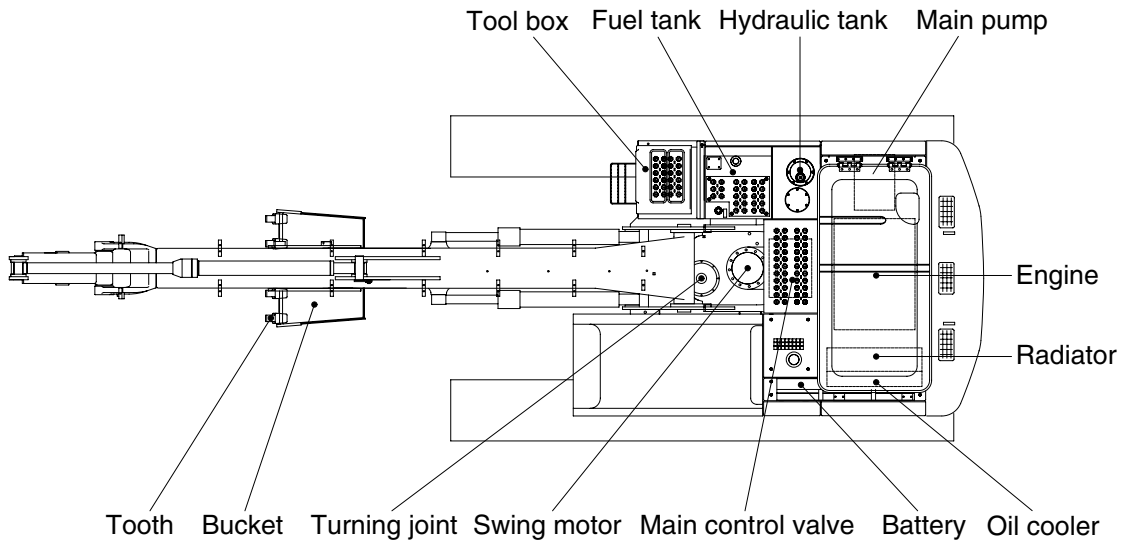


GROUP 2 SPECIFICATIONS

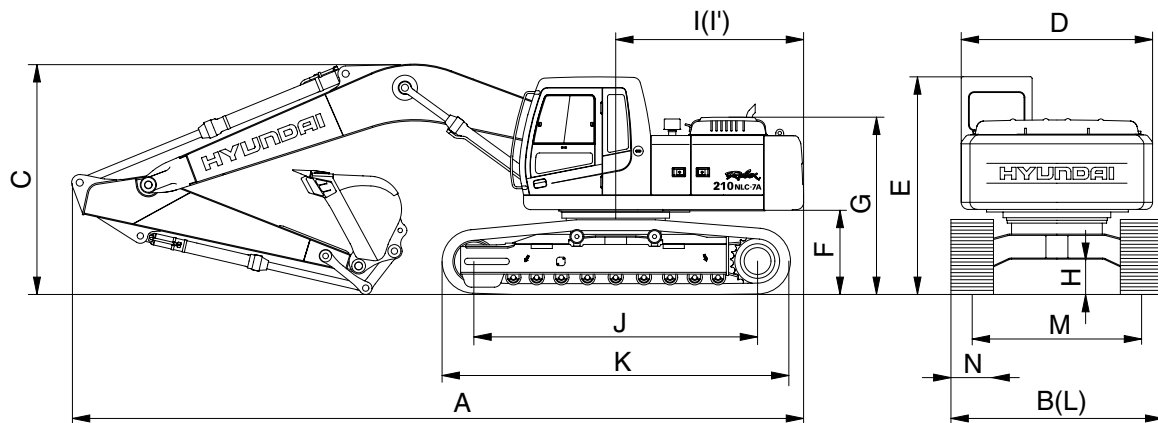
1. MAJOR COMPONENT



210N7A2SP01

2. SPECIFICATIONS

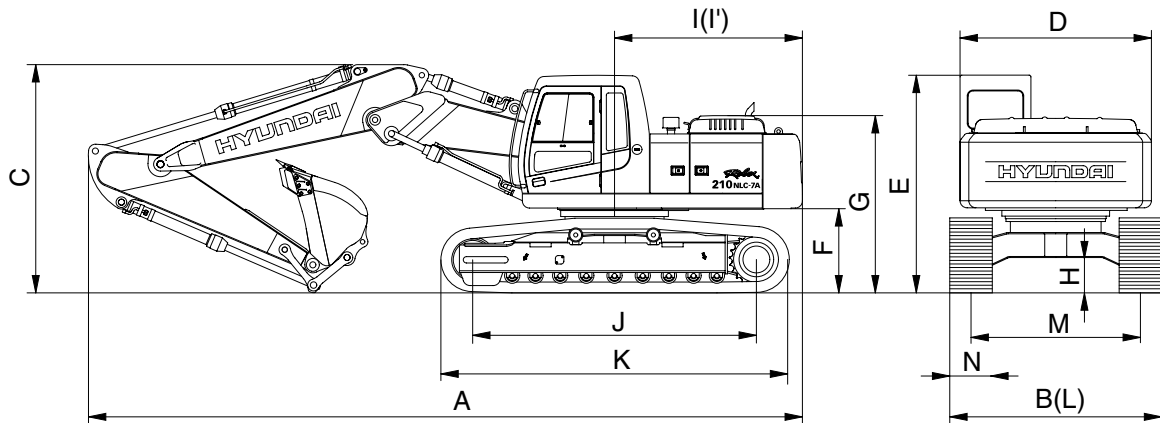
1) 5.65m (18' 6") MONO BOOM



210N7A2SP02A

Description	Unit	Specification
Operating weight	kg(lb)	22000(48500)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)	0.87(1.14)
Overall length	A	9540(31' 4")
Overall width, with 500mm shoe	B	2500(8' 2")
Overall height	C	3070(10' 1")
Superstructure width	D	2530(8' 4")
Overall height of cab	E	2920(9' 7")
Ground clearance of counterweight	F	1060(3' 6")
Engine cover height	G	2320(7' 7")
Minimum ground clearance	H	480(1' 7")
Rear-end distance	I	2770(9' 1")
Rear-end swing radius	I'	2800(9' 2")
Distance between tumblers	J	3650(12' 0")
Undercarriage length	K	4440(14' 7")
Undercarriage width	L	2500(8' 2")
Track gauge	M	2000(6' 7")
Track shoe width, standard	N	500(20")
Travel speed (Low/high)	km/hr(mph)	3.4/5.3(2.1/3.3)
Swing speed	rpm	12.0
Gradeability	Degree(%)	35(70)
Ground pressure (500mm shoe)	kgf/cm ² (psi)	0.56(7.96)

2) 5.56m (18' 3") HYDRAULIC ADJUSTABLE BOOM, 2.4m (7' 10") ARM

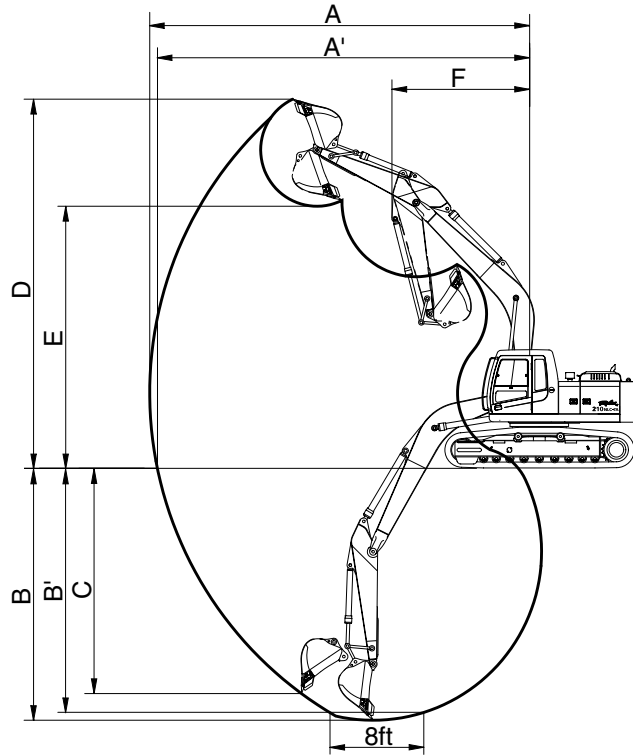


210N7A2SP03

Description		Unit	Specification
Operating weight		kg(lb)	21150(46630)
Bucket capacity (SAE heaped), standard		m ³ (yd ³)	0.87(1.14)
Overall length	A	mm(ft-in)	9450(31' 0")
Overall width, with 500mm shoe	B		2500(8' 2")
Overall height	C		3070(10' 1")
Superstructure width	D		2530(8' 4")
Overall height of cab	E		2920(9' 7")
Ground clearance of counterweight	F		1060(3' 6")
Engine cover height	G		2320(7' 7")
Minimum ground clearance	H		480(1' 7")
Rear-end distance	I		2770(9' 1")
Rear-end swing radius	I'		2800(9' 2")
Distance between tumblers	J		3650(12' 0")
Undercarriage length	K		4440(14' 7")
Undercarriage width	L		2500(8' 2")
Track gauge	M		2000(6' 7")
Track shoe width, standard	N		500(20")
Travel speed (Low/high)		km/hr(mph)	3.4/5.3(2.1/3.3)
Swing speed		rpm	12.0
Gradeability		Degree(%)	35(70)
Ground pressure (500mm shoe)		kgf/cm ² (psi)	0.56(7.96)

3. WORKING RANGE

1) 5.65m (18' 6") MONO BOOM

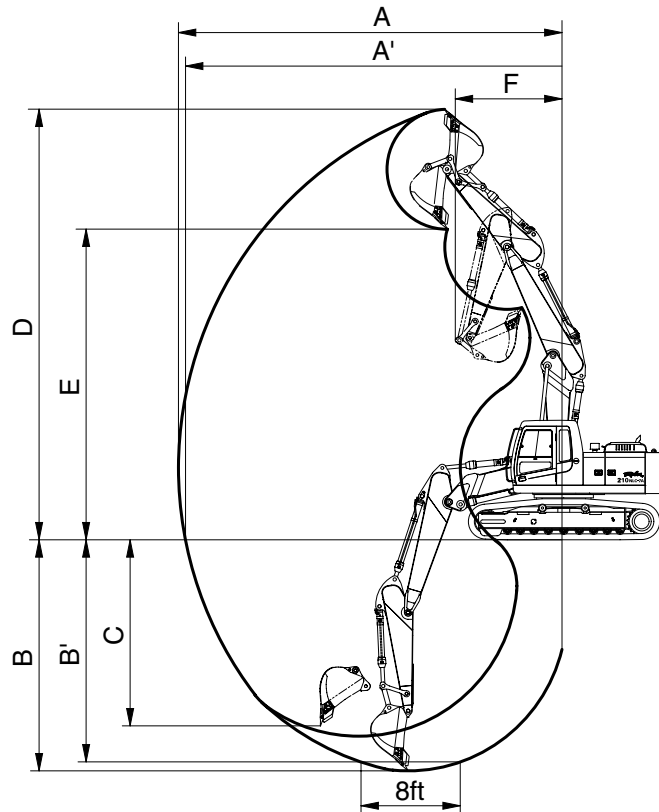


210N7A2SP04

Description		2.0m (6' 7") Arm	2.40m (7' 10") Arm	*2.90m (9' 6") Arm
Max digging reach	A	9140mm (30' 0")	9510mm (31' 2")	9960mm (32' 8")
Max digging reach on ground	A'	8960mm (29' 5")	9340mm (30' 8")	9790mm (32' 1")
Max digging depth	B	5750mm (18'10")	6150mm (20' 2")	6670mm (22'11")
Max digging depth (8ft level)	B'	5520mm (18' 1")	5950mm (19' 6")	6490mm (21' 4")
Max vertical wall digging depth	C	5320mm (17' 5")	5780mm (19' 0")	6180mm (20' 3")
Max digging height	D	9270mm (30' 5")	9500mm (31' 2")	9660mm (31' 8")
Max dumping height	E	6450mm (21' 2")	6660mm (21'10")	6840mm (22' 5")
Min swing radius	F	3710mm (12' 2")	3630mm (11'11")	3550mm (11' 8")
Bucket digging force	SAE	133 [146] kN	133 [146] kN	133 [146] kN
		13600 [14840] kgf	13600 [14840] kgf	13600 [14840] kgf
		29980 [32710] lbf	29980 [32710] lbf	29980 [32710] lbf
	ISO	152 [166] kN	152 [166] kN	152 [166] kN
		15500 [16910] kgf	15500 [16910] kgf	15500 [16910] kgf
		34170 [37280] lbf	34170 [37280] lbf	34170 [37280] lbf
Arm digging force	SAE	135 [148] kN	113 [123] kN	97 [106] kN
		13800 [15050] kgf	11500 [12550] kgf	9900 [10800] kgf
		30420 [33190] lbf	25350 [27650] lbf	21830 [23810] lbf
	ISO	142 [155] kN	118 [128] kN	101 [110] kN
		14500 [15820] kgf	12000 [13090] kgf	10300 [11240] kgf
		31970 [34880] lbf	26460 [28870] lbf	22710 [24770] lbf

* : Standard [] : Power boost

2) 5.56m (18' 3") HYDRAULIC ADJUSTABLE BOOM



210N7A2SP05

Description		2.0m (6' 7") Arm	*2.40m (7' 10") Arm
Max digging reach	A	9130(29' 11")	9500(31' 2")
Max digging reach on ground	A'	8950(29' 4")	9330(30' 7")
Max digging depth	B	5330(17' 6")	5720(18' 9")
Max digging depth (8ft level)	B'	5140(16' 10")	5530(18' 2")
Max vertical wall digging depth	C	4410(14' 6")	4830(15' 10")
Max digging height	D	10150(33' 4")	10450(34' 3")
Max dumping height	E	7240(23' 9")	7530(24' 8")
Min swing radius	F	2900(9' 6")	2640(8' 8")
Bucket digging force	SAE	133 [146]kN	133 [146]kN
		13600 [14840]kgf	13600 [14840]kgf
		29980 [32710]lbf	29980 [32710]lbf
	ISO	152 [166]kN	152 [166]kN
		15500 [16910]kgf	15500 [16910]kgf
		34170 [37280]lbf	34170 [37280]lbf
Arm crowd force	SAE	135 [148]kN	113 [123]kN
		13800 [15050]kgf	11500 [12550]kgf
		30420 [33190]lbf	25350 [27650]lbf
	ISO	142 [155]kN	118 [128]kN
		14500 [15820]kgf	12000 [13090]kgf
		31970 [34880]lbf	26460 [28870]lbf

* : Standard [] : Power boost

4. WEIGHT

1) MONO BOOM

Item	R210NLC-7A	
	kg	lb
Upperstructure assembly	8950	19730
Main frame weld assembly	2600	5730
Engine assembly	560	1240
Main pump assembly	170	370
Main control valve assembly	200	440
Swing motor assembly	190	420
Hydraulic oil tank assembly	240	530
Fuel tank assembly	195	430
Counterweight	4700	10360
Cab assembly	310	680
Lower chassis assembly	8400	18520
Track frame weld assembly	2525	5570
Swing bearing	260	570
Travel motor assembly	305	670
Turning joint	55	120
Track recoil spring and idler	270	600
Idler	170	370
Carrier roller	20	45
Track roller	40	90
Track-chain assembly (500mm standard triple grouser shoe)	1200	2650
Front attachment assembly (5.65m boom, 2.90m arm, 0.87m ³ SAE heaped bucket)	4050	8930
5.65m boom assembly	1600	3530
2.90m arm assembly	870	1920
0.87m ³ SAE heaped bucket	740	1630
Boom cylinder assembly	180	400
Arm cylinder assembly	290	640
Bucket cylinder assembly	175	390
Bucket control link assembly	170	370

2) HYDRAULIC ADJUSTABLE BOOM











Item	R210NLC-7A	
	kg	lb
Upperstructure assembly	8950	19730
Main frame weld assembly	2600	5730
Engine assembly	560	1240
Main pump assembly	170	370
Main control valve assembly	200	440
Swing motor assembly	190	420
Hydraulic oil tank assembly	240	530
Fuel tank assembly	195	430
Counterweight	4700	10360
Cab assembly	310	680
Lower chassis assembly	8400	18520
Track frame weld assembly	2525	5570
Swing bearing	260	570
Travel motor assembly	305	670
Turning joint	55	120
Track recoil spring and idler	270	600
Idler	170	370
Carrier roller	20	45
Track roller	40	90
Track-chain assembly (500mm standard triple grouser shoe)	1200	2650
Front attachment assembly (5.56m boom, 2.4m arm, 0.87m ³ SAE heaped bucket)	3185	7020
5.56m boom assembly	1810	3990
2.4m arm assembly	665	1470
0.87m ³ SAE heaped bucket	740	1630
Boom cylinder assembly	185	410
Arm cylinder assembly	290	640
Bucket cylinder assembly	175	390
Adjust cylinder assembly	200	440
Bucket control rod assembly	170	370

5. LIFTING CAPACITIES

1) MONO BOOM













(1) 5.65m (18' 6") boom, 2.00m (6' 7") arm equipped with 0.87m³ (SAE heaped) bucket, 500mm (20") triple grouser shoe and 4700kg (10360lb) counterweight.

-  : 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)
7.5m (25ft)	kg lb									*3740 *8250	3590 7910	6.65 (21.8)
6.0m (20ft)	kg lb					*4130 *9110	*4130 *9110			*3800 *8380	2640 5820	7.78 (25.5)
4.5m (15ft)	kg lb			*5340 *11770	*5340 *11770	*4530 *9990	4010 8840			*3910 *8620	2200 4850	8.44 (27.7)
3.0m (10ft)	kg lb			*6950 *15320	5820 12830	*5230 *11530	3770 8310	*4500 *9920	2590 5710	*4060 *8950	1990 4390	8.74 (28.7)
1.5m (5ft)	kg lb			*8390 *18500	5330 11750	*5960 *13140	3530 7780	*4830 *10650	2480 5470	4130 9110	1950 4300	8.74 (28.7)
Ground Line	kg lb			*9050 *19950	5120 11290	*6450 *14220	3370 7430	*5060 *11160	2410 5310	4350 9590	2050 4520	8.43 (27.7)
-1.5m (-5ft)	kg lb	*13120 *28920	9870 21760	*9010 *19860	5090 11220	*6540 *14420	3320 7320			*4580 *10100	2360 5200	7.76 (25.5)
-3.0m (-10ft)	kg lb	*11750 *25900	10070 22200	*8270 *18230	5200 11460	*5960 *13140	3410 7520			*4550 *10030	3140 6920	6.62 (21.7)

- 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) 5.65m (18' 6") boom, 2.40m (7' 10") arm equipped with 0.87m³ (SAE heaped) bucket, 500mm (20") triple grouser shoe and 4700kg (10360lb) counterweight.

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)		
7.5m (25ft)	kg lb													*3450 *7610	3160 6970	7.16 (23.5)
6.0m (20ft)	kg lb							*3730 *8220	*3730 *8220					*3520 *7760	2390 5270	8.21 (26.9)
4.5m (15ft)	kg lb					*4800 *10580	*4800 *10580	*4170 *9190	4060 8950	*3930 *8660	2700 5950			*3640 *8020	2010 4430	8.83 (29.0)
3.0m (10ft)	kg lb					*6410 *14130	5910 13030	*4910 *10820	3790 8360	*4240 *9350	2590 5710			*3780 *8330	1830 4030	9.12 (29.9)
1.5m (5ft)	kg lb					*7960 *17550	5370 11840	*5690 *12540	3520 7760	*4630 *10210	2470 5450			3830 8440	1780 3920	9.11 (29.9)
Ground Line	kg lb			*8350 *18410	*8350 *18410	*8840 *19490	5080 11200	*6280 *13850	3340 7360	*4930 *10870	2370 5220			4010 8840	1860 4100	8.82 (28.9)
-1.5m (-5ft)	kg lb	*9270 *20440	*9270 *20440	*12800 *28220	9660 21300	*9010 *19860	5010 11050	*6490 *14310	3260 7190					*4320 *9520	2120 4670	8.19 (26.9)
-3.0m (-10ft)	kg lb	*13370 *29480	*13370 *29480	*12400 *27340	9850 21720	*8500 *18740	5080 11200	*6160 *13580	3300 7280					*4390 *9680	2730 6020	7.13 (23.4)
-4.5m (-15ft)	kg lb			*9980 *22000	*9980 *22000	*6940 *15300	5320 11730									











(3) 5.65m (18' 6") boom, 2.90m (9' 6") arm equipped with 0.87m³ (SAE heaped) bucket, 500mm (20") triple grouser shoe and 4700kg (10360lb) counterweight.

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)		
7.5m (25ft)	kg lb													*3130 *6900	2790 6150	7.75 (25.4)
6.0m (20ft)	kg lb									*2000 *4410	*2000 *4410			*3220 *7100	2170 4780	8.71 (28.6)
4.5m (15ft)	kg lb							*3750 *8270	*3750 *8270	*3580 *7890	2770 6110			*3350 *7390	1840 4060	9.29 (30.5)
3.0m (10ft)	kg lb			*9130 *20130	*9130 *20130	*5750 *12680	*5750 *12680	*4520 *9960	3870 8530	*3950 *8710	2640 5820			*3500 *7720	1680 3700	9.56 (31.4)
1.5m (5ft)	kg lb			*8720 *19220	*8720 *19220	*7430 *16380	5500 12130	*5380 *11860	3580 7890	*4400 *9700	2490 5490			3550 7830	1630 3590	9.56 (31.4)
Ground Line	kg lb			*9350 *20610	*9350 *20610	*8570 *18890	5130 11310	*6070 *13380	3360 7410	*4790 *10560	2370 5220			3690 8140	1690 3730	9.28 (30.4)
-1.5m (-5ft)	kg lb	*8590 *18940	*8590 *18940	*12200 *26900	9550 21050	*8990 *19820	4990 11000	*6430 *14180	3240 7140	*4970 *10960	2310 5090			*4080 *8990	1890 4170	8.69 (28.5)
-3.0m (-10ft)	kg lb	*11720 *25840	*11720 *25840	*13130 *28950	9690 21360	*8740 *1927	5000 11020	*6320 *13930	3240 7140					*4250 *9370	2350 5180	7.72 (25.3)
-4.5m (-15ft)	kg lb			*11170 *24630	10000 22050	*7640 *16840	5170 11400							*4170 *9190	3550 7830	6.12 (20.1)

2) HYDRAULIC ADJUSTABLE BOOM











(1) 5.56m (18' 3") boom, 2.0m (6' 7") arm equipped with 0.87m³ (SAE heaped) bucket, 500mm (20") triple grouser shoe and 4700kg (10360lb) 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)
												
10.5m (35.0ft)	kg lb									*5510 *12150	*5510 *12150	4.92 (16.1)
9.0m (30.0ft)	kg lb									*6360 *14020	*6360 *14020	4.30 (14.1)
7.5m (25.0ft)	kg lb			*6390 *14090	*6390 *14090					*5090 *11220	4010 8840	6.48 (21.3)
6.0m (20.0ft)	kg lb			*6490 *14310	*6490 *14310	*5590 *12320	4430 9770			*4700 *10360	2920 6440	7.64 (25.1)
4.5m (15.0ft)	kg lb	*10550 *23260	*10550 *23260	*7310 *16120	6830 15060	*5840 *12870	4280 9440			*4500 *9920	2430 5360	8.31 (27.3)
3.0m (10.0ft)	kg lb			*8440 *18610	6230 13730	*6270 *13820	4030 8880	*5080 *11200	2780 6130	*4360 *9610	2210 4870	8.62 (28.3)
1.5m (5.0ft)	kg lb			*9140 *20150	5730 12630	*6580 14510	3790 8360	*5100 *11240	2680 5910	*4200 *9260	2160 4760	8.62 (28.3)
Ground Line	kg lb			*8910 *19460	5500 12130	*6510 *14350	3630 8000			*3950 *8710	2280 5030	8.30 (27.2)
-1.5m (-5.0ft)	kg lb	*9780 *21560	*9780 *21560	*7860 *17330	5470 12060	*5820 *12830	3590 7910			*3430 *7560	2630 5800	7.62 (25.0)
-3.0m (-10.0ft)	kg lb			*5860 *12920	5590 12320							

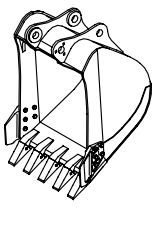
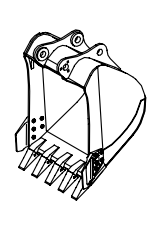
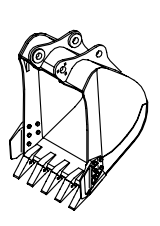
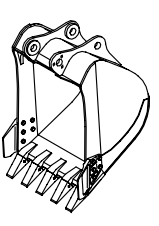
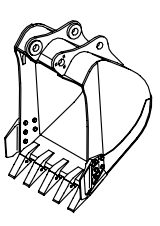
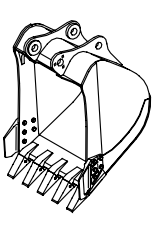
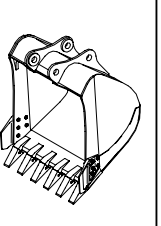
- Note
1. Lifting capacity are based on SAE J1097 and ISO 10567.
 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
 3. The load point is a hook located on the back of the bucket.
 4. *indicates load limited by hydraulic capacity.

(2) 5.56m (18' 3") boom, 2.40m (7' 10") arm equipped with 0.87m³ (SAE heaped) bucket, 500mm (20") triple grouser shoe and 4700kg (10360lb) 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)		Capacity		Reach
												m (ft)
9.0m (30.0ft)	kg lb									*5490 *12100	*5490 *12100	5.13 (16.8)
7.5m (25.0ft)	kg lb			*5270 *11620	*5270 *11620					*4670 *10300	3520 7760	7.00 (23.0)
6.0m (20.0ft)	kg lb			*6040 *13320	*6040 *13320	*5220 *11510	4500 9920			*4360 *9610	2650 5840	8.07 (26.5)
4.5m (15.0ft)	kg lb	*9540 *21030	*9540 *21030	*6870 *15150	*6870 *15150	*5560 *12260	4330 9550	*3280 *7230	2890 6370	*4200 *9260	2230 4920	8.70 (28.5)
3.0m (10.0ft)	kg lb	*13100 *28880	11610 25600	*8050 *17750	6330 13960	*6050 *13340	4060 8950	*4940 *10890	2790 6150	*4080 *8990	2030 4480	9.00 (29.5)
1.5m (5.0ft)	kg lb			*8940 *19710	5770 12720	*6450 *14220	3790 8360	*5040 *11110	2660 5860	*3960 *8730	1980 4370	8.99 (29.5)
Ground Line	kg lb	*9240 *20370	*9240 *20370	*8990 *19820	5460 12040	*6510 *14350	3600 7940	*4920 *10850	2560 5640	*3760 *8290	2070 4560	8.69 (28.5)
-1.5m (-5.0ft)	kg lb	*10990 *24230	10330 22770	*8190 *18060	5380 11860	*6020 *13270	3520 7760			*3330 *7430	2370 5220	8.05 (26.4)
-3.0m (-10.0ft)	kg lb	*8250 *18190	*8250 *18190	*6480 *14290	5470 12060	*4670 *10300	3580 7890					


6. BUCKET SELECTION GUIDE


1) GENERAL BUCKET


						
0.51m ³ SAE heaped bucket	0.80m ³ SAE heaped bucket	※ 0.87m ³ SAE heaped bucket	0.92m ³ SAE heaped bucket	1.10m ³ SAE heaped bucket	1.20m ³ SAE heaped bucket	1.34m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					5.65m (18' 6") boom			5.56m (18' 3") Adjustable boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.0m arm (6' 7")	2.4m arm (7' 10")	2.90m arm (9' 6")	2.0m arm (6' 7")	2.4m arm (7' 10")
0.51m ³ (0.67yd ³)	0.45m ³ (0.59yd ³)	700mm (27.6")	820mm (32.3")	570kg (1260lb)					
0.80m ³ (1.05yd ³)	0.70m ³ (0.92yd ³)	1000mm (39.4")	1120mm (44.1")	700kg (1540lb)					
※ 0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	1090mm (42.9")	1210mm (47.6")	740kg (1630lb)					
0.92m ³ (1.20yd ³)	0.80m ³ (1.05yd ³)	1150mm (45.3")	1270mm (50.0")	770kg (1700lb)					
1.10m ³ (1.44yd ³)	0.96m ³ (1.26yd ³)	1320mm (52.0")	1440mm (56.7")	830kg (1830lb)					
1.20m ³ (1.57yd ³)	1.00m ³ (1.31yd ³)	1400mm (55.1")	1520mm (59.8")	850kg (1870lb)					
1.34m ³ (1.75yd ³)	1.15m ³ (1.50yd ³)	1550mm (61.0")	1670mm (65.7")	920kg (2030lb)					

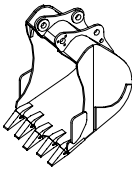
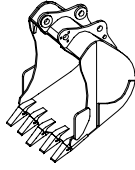
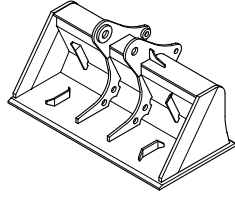
※ : Standard bucket

 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) HEAVY DUTY, ROCK AND SLOPE FINISHING BUCKET

		
◆0.74, 0.90, 1.05m ³ SAE heaped bucket	◎0.87m ³ SAE heaped bucket	■0.75m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation				
					5.65m (18' 6") boom			5.56m (18' 3") Adjustable boom	
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.0m arm (6' 7")	2.4m arm (7' 10")	2.90m arm (9' 6")	2.0m arm (6' 7")	2.4m arm (7' 10")
◆0.74m ³ (0.97yd ³)	0.65m ³ (0.85yd ³)	985mm (38.8")	-	770kg (1700lb)					
◆0.90m ³ (1.18yd ³)	0.80m ³ (1.05yd ³)	1070mm (42.1")	-	810kg (1790lb)					
◆1.05m ³ (1.37yd ³)	0.92m ³ (1.20yd ³)	1290mm (50.8")	-	890kg (1960lb)					
◎0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	1140mm (44.9")	-	900kg (1980lb)					
■0.75m ³ (0.98yd ³)	0.65m ³ (0.85yd ³)	1790mm (70.5")	-	880kg (1940lb)					

◆ : Heavy duty bucket ◎ : Rock bucket ■ : Slope finishing 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

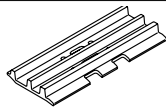
 Applicable for materials with density of 1100kgf/m³ (1850lbf/yd³) or less

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		
					
MONO BOOM	Shoe width	mm(in)	500(20)	600(24)	700(28)
	Operating weight	kg(lb)	22000(48500)	22300(49200)	22600(49820)
	Ground pressure	kgf/cm ² (psi)	0.56(7.96)	0.47(6.68)	0.41(5.83)
	Overall width	mm(ft-in)	2500(8' 2")	2600(8' 6")	2700(8'10")
2 PIECE BOOM	Shoe width	mm(in)	500(20)	600(24)	-
	Operating weight	kg(lb)	21150(46630)	21450(47290)	-
	Ground pressure	kgf/cm ² (psi)	0.56(7.96)	0.47(6.68)	-
	Overall width	mm(ft-in)	2500(8' 2")	2600(8' 6")	-

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2EA
Track rollers	9EA
Track shoes	49EA

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
500mm triple grouser	Standard	A
600mm triple grouser	Option	B
700mm 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 QSB 6.7
Type	4-cycle, turbocharged, charge air cooled, diesel engine, low emission
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	107 × 124mm (4.21" × 4.88")
Piston displacement	6700cc (408cu in)
Compression ratio	17.2 : 1
Rated gross horse power (SAE J1995)	151Hp at 1900rpm (113kW at 1900rpm)
Maximum torque at 1500rpm	63.0kgf · m (456lb · ft)
Engine oil quantity	24 l (6.3U.S. gal)
Dry weight	556kg (1226lb)
High idling speed	1950+ 50rpm
Low idling speed	850 ± 100rpm
Rated fuel consumption	167.8g/Hp · hr at 1900rpm
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 × 117cc/rev
Maximum pressure	330kgf/cm ² (4694psi) [360kgf/cm ² (5120psi)]
Rated oil flow	2 × 222 l /min (58.6U.S. gpm/ 48.8U.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 (500psi)
Rated oil flow	28.5 l /min (7.5U.S. gpm/6.3U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools twin-block
Operating method	Hydraulic pilot system
Main relief valve pressure	330kgf/cm ² (4695psi) [360kgf/cm ² (5120psi)]
Overload relief valve pressure	390kgf/cm ² (5550psi)

[]: Poer boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	151cc/rev
Relief pressure	240kgf/cm ² (3414psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	59kgf · m (427lbf · ft)
Brake release pressure	33~50kgf/cm ² (470~711psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	330kgf/cm ² (4695psi)
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	11kgf/cm ² (156psi)
Braking torque	49.3kgf · m (357lbf · ft)

7) REMOTE CONTROL VALVE

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

8) CYLINDER

Item		Specification	
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 85 × 1290mm	
	Cushion	Extend only	
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 100 × 1510mm	
	Cushion	Extend and retract	
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 125 × ∅ 85 × 1055mm	
	Cushion	Extend only	
Adjust boom cylinder	1st	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 85 × 1290mm
		Cushion	Extend only
	2nd	Bore dia × Rod dia × Stroke	∅ 160 × ∅ 100 × 1040mm
		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
MONO BOOM	Standard	500mm (20")	0.56kgf/cm ² (7.96psi)	49	2500mm (8' 2")
	Option	600mm (24")	0.47kgf/cm ² (6.68psi)	49	2600mm (8' 6")
		700mm (28")	0.41kgf/cm ² (5.83psi)	49	2700mm (8' 10")
ADJUST BOOM	Standard	500mm (20")	0.56kgf/cm ² (7.96psi)	49	2500mm (8' 2")
	Option	600mm (24")	0.48kgf/cm ² (6.83psi)	49	2600mm (8' 6")

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1090mm (42.9")	1210mm (47.6")
Option	0.51m ³ (0.67yd ³)	0.45m ³ (0.59yd ³)	3	700mm (27.6")	820mm (32.3")
	0.80m ³ (1.05yd ³)	0.70m ³ (0.92yd ³)	5	1000mm (39.4")	1120mm (44.1")
	0.92m ³ (1.20yd ³)	0.80m ³ (1.05yd ³)	5	1150mm (45.3")	1270mm (50.0")
	1.10m ³ (1.44yd ³)	0.96m ³ (1.26yd ³)	5	1320mm (52.0")	1440mm (56.7")
	1.20m ³ (1.57yd ³)	1.00m ³ (1.31yd ³)	5	1400mm (55.1")	1520mm (59.8")
	1.34m ³ (1.75yd ³)	1.15m ³ (1.50yd ³)	6	1550mm (61.1")	1670mm (65.7")
	◆0.74m ³ (0.97yd ³)	0.65m ³ (0.85yd ³)	5	985mm (38.8")	-
	◆0.90m ³ (1.18yd ³)	0.80m ³ (1.05yd ³)	5	1070mm (42.1")	-
	◆1.05m ³ (1.37yd ³)	0.92m ³ (1.20yd ³)	5	1290mm (50.8")	-
	◎0.87m ³ (1.14yd ³)	0.75m ³ (0.98yd ³)	5	1140mm (44.9")	-
	■0.75m ³ (0.98yd ³)	0.65m ³ (0.85yd ³)	-	1790mm (70.5")	-

◆ : Heavy duty bucket

◎ : Rock bucket

■ : Slope finishing bucket

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)	40 (104)
Engine oil pan	Engine oil	24.0 (6.3)							SAE 30
									SAE 10W
									SAE 10W-30
									SAE 15W-40
Swing drive	Gear oil	5.0 (1.3)							
Final drive		5.8 × 2 (1.5 × 2)						SAE 85W-140	
Hydraulic tank	Hydraulic oil	Tank; 180 (48) System; 290 (77)							ISO VG 32
									ISO VG 46
									ISO VG 68
Fuel tank	Diesel fuel	310 (82)							ASTM D975 NO.1
									ASTM D975 NO.2
Fitting (Grease nipple)	Grease	As required							NLGI NO.1
									NLGI NO.2
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	35 (9.2)							Ethylene glycol base permanent type

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material