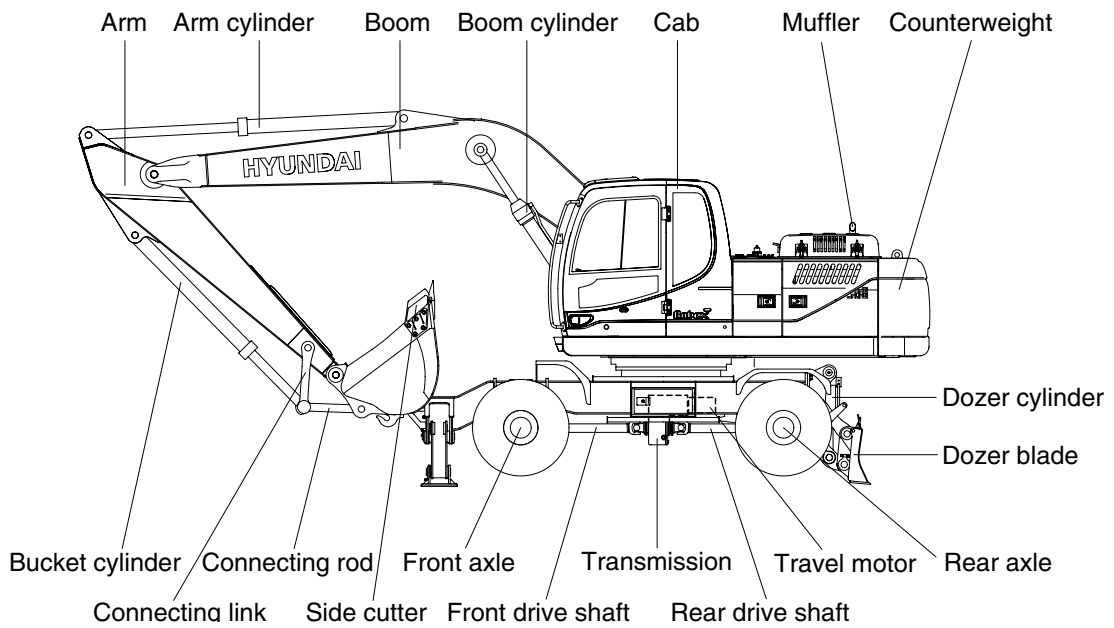
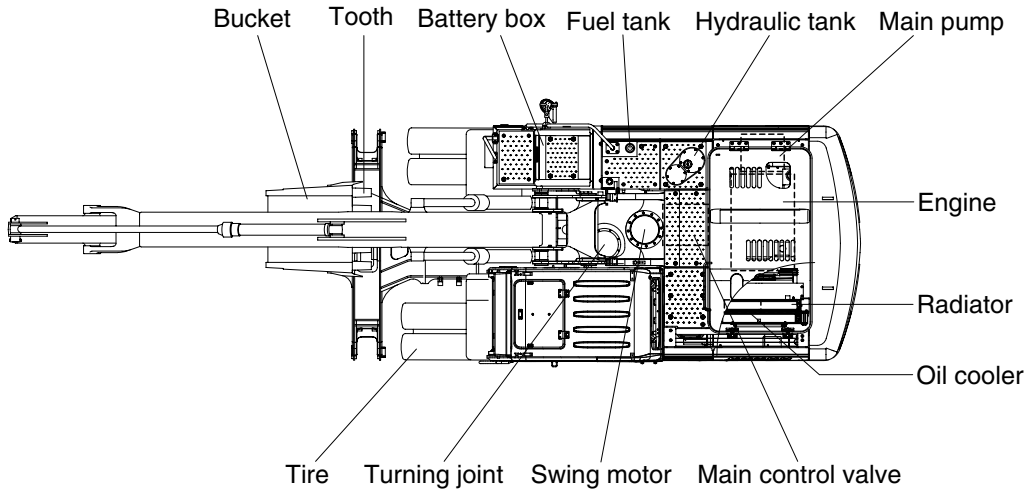


GROUP 2 SPECIFICATIONS

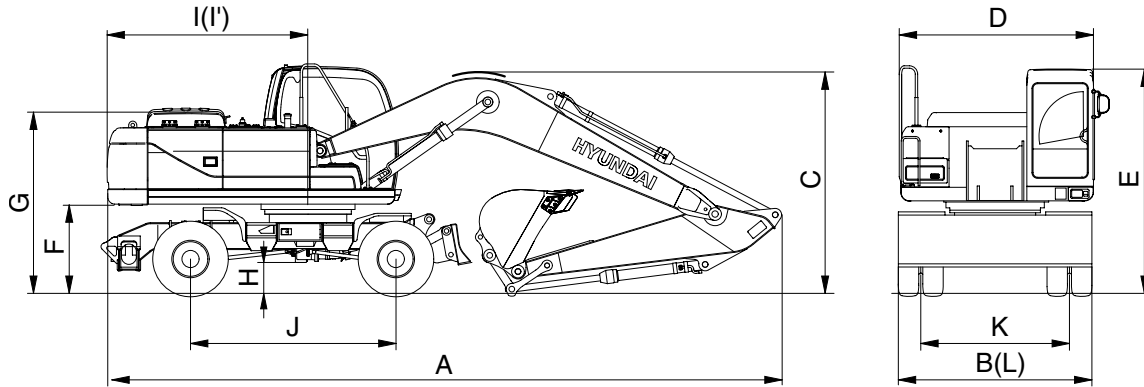
1. MAJOR COMPONENT



20W92SP01

2. SPECIFICATIONS

1) 5.65 m (18' 6") ONE PIECE BOOM, 2.92 m (9' 7") ARM, FRONT OUTRIGGER AND REAR DOZER BLADE

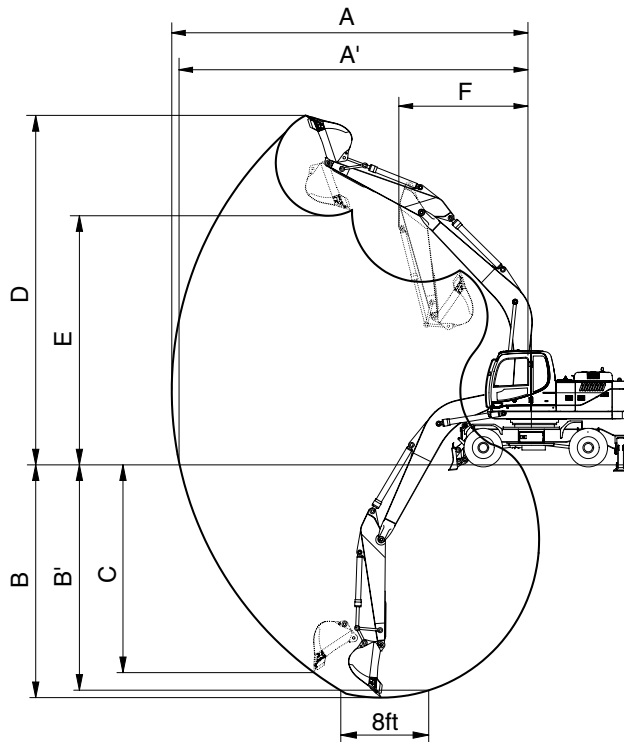


20W92SP02

Description		Unit	Specification
Operating weight		kg (lb)	20500 (45200)
Bucket capacity (SAE heaped)		m ³ (yd ³)	0.80 (1.05)
Overall length	A	mm (ft-in)	9500 (31' 2")
Overall width	B		2490 (8' 2")
Overall height of boom	C		3150 (10' 4")
Upperstructure width	D		2530 (8' 4")
Cab height	E		3180 (10' 5")
Ground clearance of counterweight	F		1310 (4' 3")
Engine cover height	G		2570 (8' 5")
Minimum ground clearance	H		345 (1' 2")
Rear-end distance	I		2765 (9' 1")
Rear-end swing radius	I'		2800 (9' 2")
Wheel base	J		2800 (9' 2")
Tread	K		1874 (6' 2")
Dozer blade width	L		2490 (8' 2")
Travel speed	Low		km/hr (mph)
	High	35 (21.8)	
Swing speed		rpm	11.0
Gradeability		Degree (%)	31.5 (61)

3. WORKING RANGE

5.65 m (18' 6") BOOM



20W92SP03

Description		2.0 m (6' 7") Arm	2.40 m (7' 10") Arm	※ 2.92 m (9' 7") Arm
Max digging reach	A	9110 mm (29' 11")	9480 mm (31' 1")	9960 mm (32' 8")
Max digging reach on ground	A'	8870 mm (29' 1")	9260 mm (30' 5")	9750 mm (31' 12")
Max digging depth	B	5480 mm (18' 0")	5880 mm (19' 3")	6380 mm (20' 11")
Max digging depth (8ft level)	B'	5240 mm (17' 2")	5670 mm (18' 7")	6210 mm (20' 4")
Max vertical wall digging depth	C	4970 mm (16' 4")	5440 mm (17' 10")	5990 mm (19' 8")
Max digging height	D	9500 mm (31' 2")	9730 mm (31' 11")	10000 mm (32' 10")
Max dumping height	E	6670 mm (21' 11")	6900 mm (22' 8")	7160 mm (23' 6")
Min swing radius	F	3700 mm (12' 2")	3620 mm (11' 11")	3580 mm (11' 9")
Bucket digging force	SAE	130.4 [141.6] kN	130.4 [141.6] kN	130.4 [141.6] kN
		13300 [14440] kgf	13300 [14440] kgf	13300 [14440] kgf
		29320 [31830] lbf	29320 [31830] lbf	29320 [31830] lbf
	ISO	149.1 [161.8] kN	149.1 [161.8] kN	149.1 [161.8] kN
		15200 [16500] kgf	15200 [16500] kgf	15200 [16500] kgf
		33510 [36380] lbf	33510 [36380] lbf	33510 [36380] lbf
Arm digging force	SAE	144.2 [156.5] kN	119.6 [129.9] kN	102.0 [110.7] kN
		14700 [15960] kgf	12200 [13250] kgf	10400 [11290] kgf
		32410 [35190] lbf	26900 [29210] lbf	22930 [24900] lbf
	ISO	151.0 [164.0] kN	125.5 [136.3] kN	106.9 [116.1] kN
		15400 [16720] kgf	12800 [13900] kgf	10900 [11830] kgf
		33950 [36860] lbf	28220 [30640] lbf	24030 [26090] lbf

[] : Power boost ※ : Standard

4. WEIGHT

Item	R210W-9	
	kg	lb
Upperstructure assembly	8950	19730
Main frame weld assembly	1760	3880
Engine assembly	560	1240
Main pump assembly	170	370
Main control valve assembly	220	490
Swing motor assembly	240	530
Hydraulic oil tank assembly	240	530
Fuel tank assembly	200	440
Counterweight	3400	7500
Cab assembly	500	1100
Lower frame weld assembly	2450	5400
Swing bearing	260	570
Travel motor assembly	83	180
Turning joint	124	270
Transmission assembly	140	310
Front axle assembly	740	1630
Rear axle assembly	700	1540
Dozer blade assembly	990	2180
Front attachment assembly (5.65 m boom, 2.92 m arm, 0.80 m ³ SAE heaped bucket)	3935	8680
5.65 m boom assembly	1480	3260
2.92 m arm assembly	750	1650
0.80 m ³ SAE heaped bucket assembly	710	1570
Boom cylinder assembly	180/1EA	400/1EA
Arm cylinder assembly	290	640
Bucket cylinder assembly	175	390
Bucket control link assembly	170	370
Oscillating cylinder assembly	30/1EA	70/1EA
Front outrigger assembly	390	860
Rear outrigger assembly	1020	2250
Outrigger cylinder assembly	100/1EA	220/1EA
Blade cylinder assembly	82/1EA	180/1EA











5. LIFTING CAPACITIES

1) ROBEX 210W-9

(1) 5.65 m (18' 6") boom, 2.0 m (6' 7") arm equipped with 0.80m³ (SAE heaped) bucket and 4 outrigger down with 3400 kg (7500 lb) counterweight.

•  : Rating over-front











•  : Rating over-side or 360 degree

Load point height		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
7.5 m (25 ft)	kg lb									*4110 *9060	*4110 *9060	6.85 (22.5)
6.0 m (20 ft)	kg lb					*4570 *10080	*4570 *10080			*4210 *9280	3840 8470	7.89 (25.9)
4.5 m (15 ft)	kg lb	*8880 *19580	*8880 *19580	*6080 *13400	*6080 *13400	*5080 *11200	*5080 *11200			*4350 *9590	3320 7320	8.48 (27.8)
3.0 m (10 ft)	kg lb			*7900 *17420	*7900 *17420	*5880 *12960	5740 12650	*5030 *11090	3960 8730	*4530 *9990	3090 6810	8.73 (28.6)
1.5 m (5 ft)	kg lb			*9370 *20660	8740 19270	*6660 *14680	5500 12130	*5390 *11880	3850 8490	*4730 *10430	3080 6790	8.67 (28.4)
Ground Line	kg lb			*9970 *21980	8550 18850	*7140 *15740	5360 11820			*4940 *10890	3290 7250	8.30 (27.2)
-1.5 m (-5 ft)	kg lb	*14240 *31390	*14240 *31390	*9810 *21630	8550 18850	*7150 *15760	5330 11750			*5100 *11240	3850 8490	7.57 (24.8)
-3.0 m (-10 ft)	kg lb	*12530 *27620	*12530 *27620	*8840 *19490	8700 19180					*5000 *11020	*5000 *11020	6.30 (20.7)











Note 1. Lifting capacity are based on SAE J1097 and ISO 10567.

- 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.
- The load point is a hook (standard equipment) located on the back of the bucket.
- *indicates load limited by hydraulic capacity.











(2) 5.65 m (18' 6") boom, 2.0 m (6' 7") arm equipped with 0.80m³ (SAE heaped) bucket and 4-outrigger up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
7.5 m (25 ft)	kg									*4110	2490	6.85
	lb									*9060	5490	(22.5)
6.0 m (20 ft)	kg					*4570	3070			3630	1820	7.89
	lb					*10080	6770			8000	4010	(25.9)
4.5 m (15 ft)	kg	*8880	8790	*6080	4680	*5080	2910			3130	1510	8.48
	lb	*19580	19380	*13400	10320	*11200	6420			6900	3330	(27.8)
3.0 m (10 ft)	kg			*7900	4150	5380	2680	3730	1800	2920	1360	8.73
	lb			*17420	9150	11860	5910	8220	3970	6440	3000	(28.6)
1.5 m (5 ft)	kg			8080	3770	5150	2480	3630	1710	2900	1340	8.67
	lb			17810	8310	11350	5470	8000	3770	6390	2950	(28.4)
Ground Line	kg			7890	3620	5010	2360			3100	1440	8.30
	lb			17390	7980	11050	5200			6830	3170	(27.2)
-1.5 m (-5 ft)	kg	*14240	6960	7890	3620	4990	2340			3630	1730	7.57
	lb	*31390	15340	17390	7980	11000	5160			8000	3810	(24.8)
-3.0 m (-10 ft)	kg	*12530	7160	8040	3740					4970	2470	6.30
	lb	*27620	15790	17730	8250					10960	5450	(20.7)













(3) 5.65 m (18' 6") boom, 2.0 m (6' 7") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade down with 3400 kg (7500 lb) counterweight.

Load point height		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
7.5 m (25 ft)	kg									*4140	*4140	6.85
	lb									*9130	*9130	(22.5)
6.0 m (20 ft)	kg					*4600	*4600			*4220	3170	7.89
	lb					*10140	*10140			*9300	6990	(25.9)
4.5 m (15 ft)	kg	*8940	*8940	*6120	*6120	*5110	4940			*4360	2710	8.48
	lb	*19710	*19710	*13490	*13490	*11270	10890			*9610	5970	(27.8)
3.0 m (10 ft)	kg			*7930	7390	*5910	4680	*5040	3240	*4540	2520	8.73
	lb			*17480	16290	*13030	10320	*11110	7140	*10010	5560	(28.6)
1.5 m (5 ft)	kg			*9390	6940	*6680	4460	*5400	3140	*4730	2500	8.67
	lb			*20700	15300	*14730	9830	*11900	6920	*10430	5510	(28.4)
Ground Line	kg			*9970	6770	*7150	4330			*4930	2680	8.30
	lb			*21980	14930	*15760	9550			*10870	5910	(27.2)
-1.5 m (-5 ft)	kg	*14180	*14180	*9800	6770	*7140	4300			*5080	3140	7.57
	lb	*31260	*31260	*21610	14930	*15740	9480			*11200	6920	(24.8)
-3.0 m (-10 ft)	kg	*12450	*12450	*8810	6910					*4960	4320	6.30
	lb	*27450	*27450	*19420	15230					*10930	9520	(20.7)













(4) 5.65 m (18' 6") boom, 2.0 m (6' 7") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
7.5 m (25 ft)	kg											
	lb									*4140	2490	6.85
										**9130	5490	(22.5)
6.0 m (20 ft)	kg					*4600	3060			3630	1820	7.89
	lb					*10140	6750			8000	4010	(25.9)
4.5 m (15 ft)	kg	*8940	8790	*6120	4680	*5110	2910			3130	1500	8.48
	lb	*19710	19380	*13490	10320	*11270	6420			6900	3310	(27.8)
3.0 m (10 ft)	kg			*7930	4150	5380	2680	3730	1800	2920	1360	8.73
	lb			*17480	9150	11860	5910	8220	3970	6440	3000	(28.6)
1.5 m (5 ft)	kg			8070	3770	5150	2480	3630	1710	2900	1340	8.67
	lb			17790	8310	11350	5470	8000	3770	6390	2950	(28.4)
Ground Line	kg			7890	3620	5010	2360			3100	1440	8.30
	lb			17390	7980	11050	5200			6830	3170	(27.2)
-1.5 m (-5 ft)	kg	*14180	6960	7890	3620	4990	2340			3630	1730	7.57
	lb	*31260	15340	17390	7980	11000	5160			8000	3810	(24.8)
-3.0 m (-10 ft)	kg	*12450	7160	8030	3740					*4960	2460	6.30
	lb	*27450	15790	17700	8250					*10930	5420	(20.7)













(5) 5.65 m (18' 6") boom, 2.4 m (7' 10") arm equipped with 0.80m³ (SAE heaped) bucket and 4 outrigger down with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
7.5 m (25 ft)	kg													
	lb											*3810	*3810	7.34
												*8400	*8400	(24.1)
6.0 m (20 ft)	kg							*4150	*4150			*3910	3510	8.31
	lb							*9150	*9150			*8620	7740	(27.3)
4.5 m (15 ft)	kg					*5500	*5500	*4710	*4710	*4390	4070	*4050	3060	8.87
	lb					*12130	*12130	*10380	*10380	*9680	8970	*8930	6750	(29.1)
3.0 m (10 ft)	kg					*7330	*7330	*5550	*5550	*4760	3960	*4230	2860	9.10
	lb					*16160	*16160	*12240	*12240	*10490	8730	*9330	6310	(29.9)
1.5 m (5 ft)	kg					*8950	8770	*6390	5490	*5180	3830	*4430	2840	9.05
	lb					*19730	19330	*14090	12100	*11420	8440	*9770	6260	(29.7)
Ground Line	kg			*9840	*9840	*9780	8500	*6980	5320	*5480	3750	*4640	3020	8.70
	lb			*21690	*21690	*21560	18740	*15390	11730	*12080	8270	*10230	6660	(28.5)
-1.5 m (-5 ft)	kg	*10680	*10680	*14730	*14730	*9850	8450	*7130	5260			*4830	3470	8.00
	lb	*23550	*23550	*32470	*32470	*21720	18630	*15720	11600			*10650	7650	(26.2)
-3.0 m (-10 ft)	kg	*15190	*15190	*13270	*13270	*9140	8560	*6600	5340			*4870	4560	6.84
	lb	*33490	*33490	*29260	*29260	*20150	18870	*14550	11700			*10740	10050	(22.4)
-4.5 m (-15 ft)	kg			*10270	*10270	*7070	*7070							
	lb			*22640	*22640	*15590	*15590							













(6) 5.65 m (18' 6") boom, 2.4 m (7' 10") arm equipped with 0.80m³ (SAE heaped) bucket and 4 outrigger up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach		
														m (ft)		
7.5 m (25 ft)	kg													*3810	2180	7.34
	lb													*8400	4810	(24.1)
6.0 m (20 ft)	kg							*4150	3110					3310	1630	8.31
	lb							*9150	6860					7300	3590	(27.3)
4.5 m (15 ft)	kg					*5500	4770	*4710	2930	3840	1900			2890	1350	8.87
	lb					*12130	10520	*10380	6460	8470	4190			6370	2980	(29.1)
3.0 m (10 ft)	kg					*7330	4220	5400	2690	3730	1800			2700	1220	9.10
	lb					*16160	9300	11900	5930	8220	3970			5950	2690	(29.9)
1.5 m (5 ft)	kg					8100	3780	5140	2470	3600	1690			2680	1200	9.05
	lb					17860	8330	11330	5450	7940	3730			5910	2650	(29.7)
Ground Line	kg			*9840	6700	7850	3570	4970	2320	3520	1610			2840	1280	8.70
	lb			*21690	14770	17310	7870	10960	5110	7760	3550			6260	2820	(28.5)
-1.5 m (-5 ft)	kg	*10680	*10680	*14730	6770	7800	3530	4920	2270					3270	1520	8.00
	lb	*23550	*23550	*32470	14930	17200	7780	10850	5000					7210	3350	(26.2)
-3.0 m (-10 ft)	kg	*15190	*15190	*13270	6960	7900	3620	4990	2330					4290	2080	6.84
	lb	*33490	*33490	*29260	15340	17420	7780	11000	5140					9460	4590	(22.4)
-4.5 m (-15 ft)	kg			*10270	7350	*7070	3880									
	lb			*22640	16200	*15590	8550									













(7) 5.65 m (18' 6") boom, 2.4 m (7' 10") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade down with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach		
														m (ft)		
7.5 m (25 ft)	kg													*3810	3690	7.34
	lb													*8400	8140	(24.1)
6.0 m (20 ft)	kg							*4150	*4150					*3910	2890	8.31
	lb							*9150	*9150					*8620	6370	(27.3)
4.5 m (15 ft)	kg					*5500	*5500	*4710	*4710	*4390	3350			*4050	2500	8.87
	lb					*12130	*12130	*10380	*10380	*9680	7390			*8930	5510	(29.1)
3.0 m (10 ft)	kg					*7330	*7330	*5550	4700	*4760	3230			*4230	2320	9.10
	lb					*16160	*16160	*12240	10360	*10490	7120			*9330	5110	(29.9)
1.5 m (5 ft)	kg					*8950	6970	*6390	4450	*5180	3110			*4430	2300	9.05
	lb					*19730	15370	*14090	9810	*11420	6860			*9770	5070	(29.7)
Ground Line	kg			*9840	*9840	*9780	6720	*6980	4290	*5480	3030			*4640	2440	8.70
	lb			*21690	*21690	*21560	14820	*15390	9460	*12080	6680			*10230	5380	(28.5)
-1.5 m (-5 ft)	kg	*10680	*10680	*14730	14050	*9850	6680	*7130	4230					*4830	2820	8.00
	lb	*23550	*23550	*32470	30970	*21720	14730	*15720	9330					*10650	6220	(26.2)
-3.0 m (-10 ft)	kg	*15190	*15190	*13270	*13270	*9140	6780	*6600	4300					*4870	3730	6.84
	lb	*33490	*33490	*29260	*29260	*20150	14950	*14550	9480					*10740	8220	(22.4)
-4.5 m (-15 ft)	kg			*10270	*10270	*7070	*7070									
	lb			*22640	*22640	*15590	*15590									













(8) 5.65 m (18' 6") boom, 2.4 m (7' 10") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
7.5 m (25 ft)	kg											*3810	2180	7.34
	lb											*8400	4810	(24.1)
6.0 m (20 ft)	kg							*4150	3110			3310	1630	8.31
	lb							*9150	6860			7300	3590	(27.3)
4.5 m (15 ft)	kg					*5500	4770	*4710	2930	3840	1900	2890	1350	8.87
	lb					*12130	10520	*10380	6460	8470	4190	6370	2980	(29.1)
3.0 m (10 ft)	kg					*7330	4220	5400	2690	3730	1800	2700	1220	9.10
	lb					*16160	9300	11900	5930	8220	3970	5950	2690	(29.9)
1.5 m (5 ft)	kg					8100	3780	5140	2470	3600	1690	2680	1200	9.05
	lb					17860	8330	11330	5450	7940	3730	5910	2650	(29.7)
Ground Line	kg			*9840	6700	7850	3570	4970	2320	3520	1610	2840	1280	8.70
	lb			*21690	14770	17310	7870	10960	5110	7760	3550	6260	2820	(28.5)
-1.5 m (-5 ft)	kg	*10680	*10608	*14730	6770	7800	3530	4920	2270			3270	1520	8.00
	lb	*23550	*23550	*32470	14930	17200	7780	10850	5000			7210	3350	(26.2)
-3.0 m (-10 ft)	kg	*15190	*15190	*13270	6960	7900	3620	4990	2330			4290	2080	6.84
	lb	*33490	*33490	*29260	15340	17420	7980	11000	5140			9460	4590	(22.4)
-4.5 m (-15 ft)	kg			*10270	7350	*7070	3880							
	lb			*22640	16200	*15590	8550							













(9) 5.65 m (18' 6") boom, 2.92 m (9' 7") arm equipped with 0.80m³ (SAE heaped) bucket and 4 outrigger down with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach		
														m (ft)		
9.0 m (30 ft)	kg											*3410	*3410	6.52		
	lb											*7520	*7520	(21.4)		
7.5 m (25 ft)	kg											*3470	*3470	7.96		
	lb											*7650	*7650	(26.1)		
6.0 m (20 ft)	kg									*2690	*2690	*3580	3140	8.85		
	lb									*5930	*5930	*7890	6920	(29.0)		
4.5 m (15 ft)	kg									*4210	*4210	*3980	*3980	*3720	2770	9.37
	lb									*9280	*9280	*8770	*8770	*8200	6110	(30.7)
3.0 m (10 ft)	kg			*10720	*10720	*6550	*6550	*5090	*5090	*4410	3970	*3890	2600	9.59		
	lb			*23630	*23630	*14440	*14440	*11220	*11220	*9720	8750	*8580	5730	(31.5)		
1.5 m (5 ft)	kg			*8900	*8900	*8350	*8350	*6020	5510	*4900	3820	*4080	2570	9.54		
	lb			*19620	*19620	*18410	*18410	*13270	12150	*10800	8420	*8990	5670	(31.3)		
Ground Line	kg			*10210	*10210	*9470	8490	*6730	5290	*5300	3710	*4290	2710	9.21		
	lb			*22510	*22510	*20880	18720	*14840	11660	*11680	8180	*9460	5970	(30.2)		
-1.5 m (-5 ft)	kg	*9470	*9470	*13480	*13480	*9820	8360	*7060	5190	*5440	3660	*4500	3060	8.56		
	lb	*20880	*20880	*29720	*29720	*21650	18430	*15560	11440	*11990	8070	*9920	6750	(28.1)		
-3.0 m (-10 ft)	kg	*12940	*12940	*14070	*14070	*9430	8410	*6830	5220			*4640	3860	7.50		
	lb	*28530	*28530	*31020	*31020	*20790	18540	*15060	11510			**10230	8510	(24.6)		
-4.5 m (-15 ft)	kg			*11670	*11670	*7990	*7990									
	lb			*25730	*25730	*17610	*17610									













(10) 5.65 m (18' 6") boom, 2.92 m (9' 7") arm equipped with 0.80m³ (SAE heaped) bucket and 4 outrigger up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach		
														m (ft)		
9.0m (30 ft)	kg													*3410	2840	6.52
	lb													*7520	6260	(21.4)
7.5 m (25 ft)	kg													*3470	1870	7.96
	lb													*7650	4120	(26.1)
6.0 m (20 ft)	kg									*2690	2010	2970	1420	8.85		
	lb									*5930	4430	6550	3130	(29.0)		
4.5 m (15 ft)	kg							*4210	2990	3880	1930	2610	1190	9.37		
	lb							*9280	6590	8550	4250	5750	2620	(30.7)		
3.0 m (10 ft)	kg			*10720	7970	*6550	4340	*5090	2730	3740	1810	2450	1070	9.59		
	lb			*23630	17570	*14440	9570	*11220	6020	8250	3990	5400	2360	(31.5)		
1.5 m (5 ft)	kg			*8900	6830	8180	3840	5160	2470	3590	1670	2420	1040	9.54		
	lb			*19620	15060	18030	8470	11380	5450	7910	3680	5340	2290	(31.3)		
Ground Line	kg			*10210	6570	7830	3550	4950	2290	3480	1570	2550	1100	9.21		
	lb			*22510	14480	17260	7830	10910	5050	7670	3460	5620	2430	(30.2)		
-1.5 m (-5 ft)	kg	*9470	*9470	*13480	6590	7710	3450	4850	2200	3440	1530	2880	1290	8.56		
	lb	*20880	*20880	*29720	14530	17000	7610	10690	4850	7580	3370	6350	2840	(28.1)		
-3.0 m (-10 ft)	kg	*12940	*12940	*14070	6740	7760	3790	4870	2220			3630	1700	7.50		
	lb	*28530	*28530	*31020	14860	17110	7690	10740	4890			8000	3750	(24.6)		
-4.5 m (-15 ft)	kg			*11670	7050	7980	3670									
	lb			*25730	15540	17590	8090									

(11) 5.65 m (18' 6") boom, 2.92 m (9' 7") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade down with 3400 kg (7500 lb) counterweight.

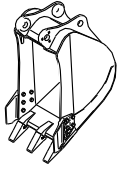
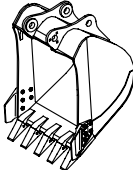
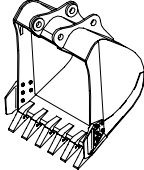
Load point height		Load radius										At max. reach				
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach		
														m (ft)		
9.0m (30 ft)	kg													*3410	*3410	6.52
	lb													*7520	*7520	(21.4)
7.5 m (25 ft)	kg													*3470	3210	7.96
	lb													*7650	7080	(26.1)
6.0 m (20 ft)	kg									*2690	*2690	*3580	2580	8.85		
	lb									*5930	*5930	*7890	5690	(29.0)		
4.5 m (15 ft)	kg							*4210	*4210	*3980	3380	*3720	2250	9.37		
	lb							*9280	*9280	*8770	7450	*8200	4960	(30.7)		
3.0 m (10 ft)	kg			*10720	*10720	*6550	*6550	*5090	4750	*4410	3250	*3890	2090	9.59		
	lb			*23630	*23630	*14440	*14440	*11220	10470	*9720	7170	*8580	4610	(31.5)		
1.5 m (5 ft)	kg			*8900	*8900	*8350	7040	*6020	4460	*4900	3100	*4080	2070	9.54		
	lb			*19620	*19620	*18410	15520	*13270	9830	*10800	6830	*8990	4560	(31.3)		
Ground Line	kg			*10210	*10210	*9470	6700	*6730	4260	*5300	2990	*4290	2180	9.21		
	lb			*22510	*22510	*20880	14770	*14840	9390	*11680	6590	*9460	4810	(30.2)		
-1.5 m (-5 ft)	kg	*9470	*9470	*13480	*13480	*9820	6590	*7060	4160	*5440	2950	*4500	2470	8.56		
	lb	*20880	*20880	*29720	*29720	*21650	14530	*15560	9170	*11990	6500	*9920	5450	(28.1)		
-3.0 m (-10 ft)	kg	*12940	*12940	*14070	14020	*9430	6640	*6830	4190			*4640	3130	7.50		
	lb	*28530	*28530	*31020	30910	*20790	14640	*15060	9240			*10230	6900	(24.6)		
-4.5 m (-15 ft)	kg			*11670	*11670	*7990	6850									
	lb			*25730	*25730	*17610	15100									

(12) 5.65 m (18' 6") boom, 2.92 m (9' 7") arm equipped with 0.80m³ (SAE heaped) bucket, front outrigger and rear dozer blade up with 3400 kg (7500 lb) counterweight.

Load point height		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
														m (ft)
9.0m (30 ft)	kg lb											*3410 *7520	2840 6260	6.52 (21.4)
7.5 m (25 ft)	kg lb											*3470 *7650	1870 4120	7.96 (26.1)
6.0 m (20 ft)	kg lb								*2690 *5930	2010 4430	2970 6550	1420 3130	8.85 (29.0)	
4.5 m (15 ft)	kg lb						*4210 *9280	2990 6590	3880 8550	1930 4250	2610 5750	1190 2620	9.37 (30.7)	
3.0 m (10 ft)	kg lb			*10720 *23630	7970 17570	*6550 *14440	4340 9570	*5090 *11220	2730 6020	3740 8250	1810 3990	2450 5400	1070 2360	9.59 (31.5)
1.5 m (5 ft)	kg lb			*8900 *19620	6830 15060	8180 18030	3840 8470	5160 11380	2470 5450	3590 7910	1670 3680	2420 5340	1040 2290	9.54 (31.3)
Ground Line	kg lb			*10210 *22510	6570 14480	7830 17260	3550 7830	4950 10910	2290 5050	3480 7670	1570 3460	2550 5620	1100 2430	9.21 (30.2)
-1.5 m (-5 ft)	kg lb	*9470 *20880	*9470 *20880	*13480 *29720	6590 14530	7710 17000	3450 7610	4850 10690	2200 4850	3440 7580	1530 3370	2880 6350	1290 2840	8.56 (28.1)
-3.0 m (-10 ft)	kg lb	*12940 *28530	*12940 *28530	*14070 *31020	6740 14860	7760 17110	3490 7690	4870 10740	2220 4890			3630 8000	1700 3750	7.50 (24.6)
-4.5 m (-15 ft)	kg lb			*11670 *25730	7050 15540	7980 17590	3670 8090							

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET

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

Capacity		Width		Weight	Recommendation		
					5.65 m (18' 6") Mono boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter		2.0 m arm (6' 7")	2.4 m arm (7' 10")	2.92 m arm (9' 7")
0.51 m ³ (0.67 yd ³)	0.45 m ³ (0.59 yd ³)	700 mm (27.6")	820 mm (312.3)	570 kg (1260 lb)			
※ 0.80 m ³ (1.05 yd ³)	0.70 m ³ (0.92 yd ³)	1000 mm (39.4")	1120 mm (44.1")	700 kg (1540 lb)			
0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	1090 mm (42.9")	1210 mm (47.6")	740 kg (1630 lb)			
0.92 m ³ (1.20 yd ³)	0.80 m ³ (1.05 yd ³)	1150 mm (45.3")	1270 mm (50.0")	770 kg (1700 lb)			
1.10 m ³ (1.44 yd ³)	0.96 m ³ (1.26 yd ³)	1320 mm (52.0")	1440 mm (56.7")	830 kg (1830 lb)			
1.20 m ³ (1.57 yd ³)	1.00 m ³ (1.31 yd ³)	1400 mm (55.1")	1520 mm (60.0")	850 kg (1870 lb)			
1.34 m ³ (1.75 yd ³)	1.15 m ³ (1.50 yd ³)	1550 mm (61.0")	1670 mm (65.7")	920 kg (2030 lb)			

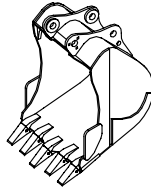
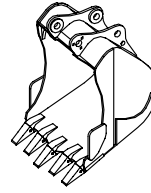
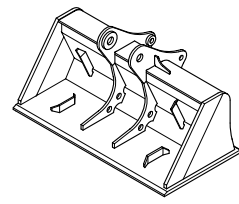
※ : Standard bucket

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

2) HEAVY DUTY, ROCK-HEAVY DUTY AND SLOPE FINISHING BUCKET

Heavy duty bucket	Rock-Heavy duty bucket	Slope finishing bucket
		
◆ 0.74, 0.90, 1.05 m ³ SAE heaped bucket	◎ 0.87 m ³ SAE heaped bucket	■ 0.75 m ³ SAE heaped bucket

Capacity		Width		Weight	Recommendation		
SAE heaped	SAE heaped	Without side cutter	With side cutter		5.65 m (18' 6") boom		
					2.0 m arm (6' 7")	2.4 m arm (7' 10")	2.92 m arm (9' 7")
◆ 0.74 m ³ (0.97 yd ³)	0.65 m ³ (0.85 yd ³)	985 mm (38.8")	-	770 kg (1700 lb)			
◆ 0.90 m ³ (1.18 yd ³)	0.80 m ³ (1.05 yd ³)	1070 mm (42.1")	-	810 kg (1790 lb)			
◆ 1.05 m ³ (1.37 yd ³)	0.92 m ³ (1.20 yd ³)	1290 mm (50.8")	-	890 kg (1960 lb)			
◎ 0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	1140 mm (44.9")	-	900 kg (1980 lb)			
■ 0.75 m ³ (0.98 yd ³)	0.65 m ³ (0.85 yd ³)	1790 mm (70.5")	-	880 kg (1940 lb)			

◆ : Heavy duty bucket ◎ : Rock-Heavy duty bucket ■ : Slope finishing 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. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins QSB6.7
Type	4-cycle turbocharged 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 borexstroke	107×124 mm (4.2"×4.9")
Piston displacement	6700 cc (409 cu in)
Compression ratio	17.2 : 1
Rated gross horse power (SAE J1995)	176 Hp at 1900 rpm (131 kW at 1900 rpm)
Maximum torque at 1400 rpm	81.4 kgf·m (799 lbf·ft)
Engine oil quantity	24l (6.3 U.S. gal)
Dry weight	556 kg (1226 lb)
High idling speed	2000 ± 50 rpm
Low idling speed	850 ± 100 rpm
Rated fuel consumption	165.9 g/Hp·hr at 1900 rpm
Starting motor	Nippon denso (24 V-4.5 kW)
Alternator	Delco Remy (24 V-50 A)
Battery	2 × 12 V × 100 Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 117 cc/rev
Maximum pressure	330 kgf/cm ² (4694 psi) [360 kgf/cm ² (5120 psi)]
Rated oil flow	2 × 222 l /min (58.6 U.S. gpm / 48.8 U.K. gpm)
Rated speed	1900 rpm

[]: Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	15cc/rev
Maximum pressure	40 kgf/cm ² (570 psi)
Rated oil flow	28.5 l /min (7.5 U.S. gpm/6.3 U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	9 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	350 kgf/cm ² (4980 psi) [380 kgf/cm ² (5400 psi)]
Overload relief valve pressure	400 kgf/cm ² (5690 psi)

[]: Power boost

5) SWING MOTOR

Item	Specification
Type	Fixed displacement axial piston motor
Capacity	151 cc/rev
Relief pressure	265 kgf/cm ² (3770 psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	59 kgf · m (427 lbf · ft)
Brake release pressure	33~50 kgf/cm ² (470~711 psi)
Reduction gear type	2 - stage planetary

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement bent-axis axial piston motor
Rated pressure	380 kgf/cm ² (5400 psi)
Counter balance valve	Applied
Capacity	160/61 cc/rev

7) POWER TRAIN

Item	Description	Specification	
Transmission	Type	2 speed power shift transmission	
	Gear ratio	1st	4.87
		2nd	1.20
Parking brake	Type	Multi disc brake integrated in transmission	
	Maximum braking torque	2937 kgf · m (21240 lbf · ft)	
Axle	Type	4 wheel drive with differential	
	Gear ratio	16.0	
	Brake	Multi disc brake	

8) REMOTE CONTROL VALVE

Item	Description	Specification
Type		Pressure reducing
Operating pressure	Maximum	6.5 kgf / cm ² (92 psi)
	Maximum	25 kgf / cm ² (360 psi)
Single operation stroke	Lever (1.3 port)	90 mm (3.5 in)
	Lever (2.4 port)	130 mm (4.4 in)

9) CYLINDER

Item	Specification	
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 120 × ∅ 85 × 1290 mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 100 × 1510mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 125 × ∅ 85 × 1055mm
	Cushion	Extend only
Dozer cylinder	Bore dia × Rod dia × Stroke	∅ 125 × ∅ 75 × 206mm
	Cushion	Extend only
Outrigger cylinder	Bore dia × Rod dia × Stroke	∅ 130 × ∅ 80 × 427mm
	Cushion	-
Adjust boom cylinder	Bore dia × Rod dia × Stroke	∅ 160 × ∅ 100 × 1040mm
	Cushion	Extend only

10) BUCKET

Item	Capacity		Tooth quantity	Width	
	SAE heaped	CECE heaped		Without side cutter	With side cutter
Standard	0.80 m ³ (1.05 yd ³)	0.70 m ³ (0.92 yd ³)	5	1000 mm (39.4")	1120 mm (44.1")
Option	0.51 m ³ (0.67 yd ³)	0.45 m ³ (0.59 yd ³)	3	700 mm (27.6")	820 mm (32.3")
	0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	5	1090 mm (42.9")	1120 mm (47.6")
	0.92 m ³ (1.20 yd ³)	0.80 m ³ (1.05 yd ³)	5	1150 mm (45.3")	1270 mm (50.0")
	1.10 m ³ (1.44 yd ³)	0.96 m ³ (1.26 yd ³)	5	1320 mm (52.0")	1440 mm (56.7")
	1.20 m ³ (1.57 yd ³)	1.00 m ³ (1.31 yd ³)	5	1400 mm (55.1")	1520 mm (60.0")
	1.34 m ³ (1.75 yd ³)	1.15 m ³ (1.50 yd ³)	6	1550 mm (61.0")	1670 mm (65.7")
	◆0.74 m ³ (0.97 yd ³)	0.65 m ³ (0.85 yd ³)	5	985 mm (38.8")	-
	◆0.90 m ³ (1.18 yd ³)	0.80 m ³ (1.05 yd ³)	5	1070 mm (42.1")	-
	◆1.05 m ³ (1.37 yd ³)	0.92 m ³ (1.20 yd ³)	5	1290 mm (50.8")	-
	⊙0.87 m ³ (1.14 yd ³)	0.75 m ³ (0.98 yd ³)	5	1140 mm (44.9")	-
	■0.75 m ³ (0.98 yd ³)	0.65 m ³ (0.85 yd ³)	-	1790 mm (70.5")	-

◆ : Heavy duty bucket

⊙ : Rock bucket

■ : Slope finishing bucket

8. 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 (6.3)				SAE 30				
			SAE 10W							
Transmission case		2.5 (0.66)	SAE 10W-30							
			SAE 15W-40							
Swing drive	Gear oil	5.0 (1.3)	SAE 85W-140							
	Grease	1.2 (0.3)	NLGI NO.1				NLGI NO.2			
Front axle	Gear oil Center : 9.6 (2.5) Hub : 2.5×2 (0.7×2)		SAE 85W-90 LSD							
Rear axle		Center : 13.1(3.5) Hub : 2.5×2 (0.7×2)								
Hydraulic tank	Hydraulic oil	Tank: 165 (43.6) System: 340 (89.8)	ISO VG 32							
			ISO VG 46							
			ISO VG 68							
Fuel tank	Diesel fuel	310 (81.9)	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