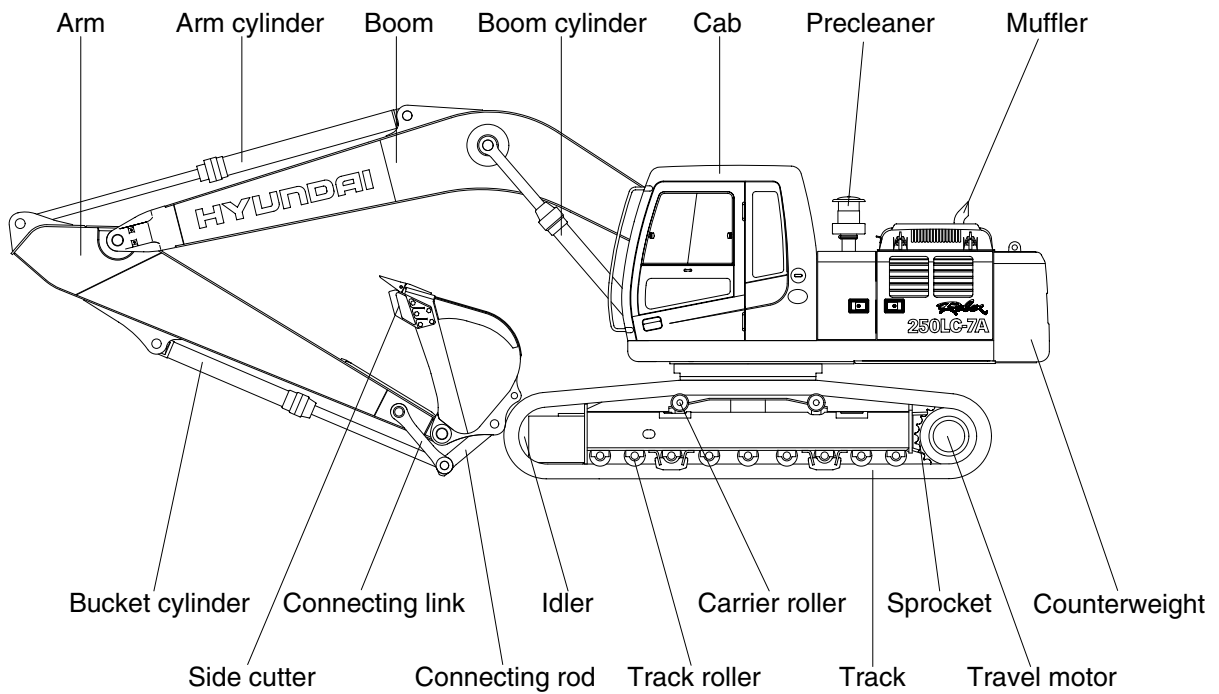
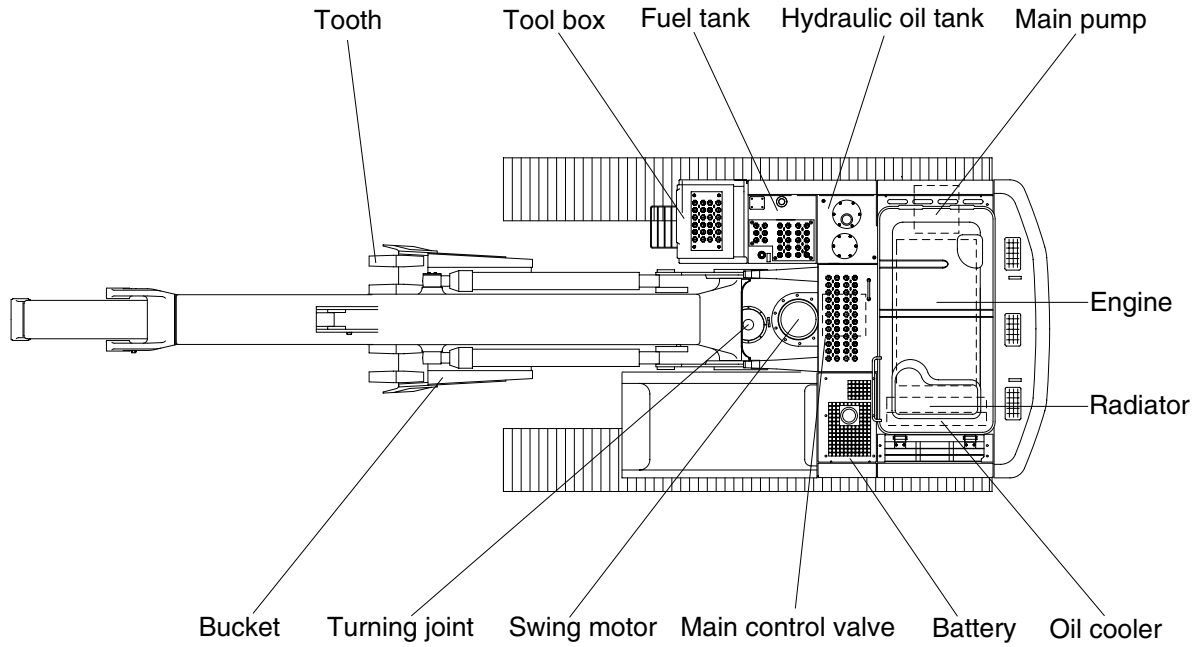


# GROUP 2 SPECIFICATIONS

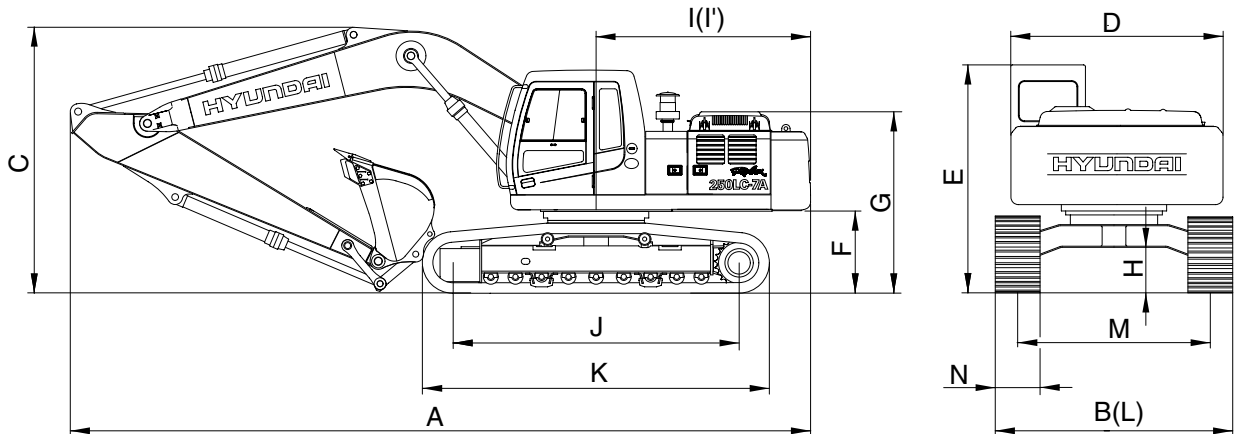
## 1. MAJOR COMPONENT



2507A2SP00

## 2. SPECIFICATIONS

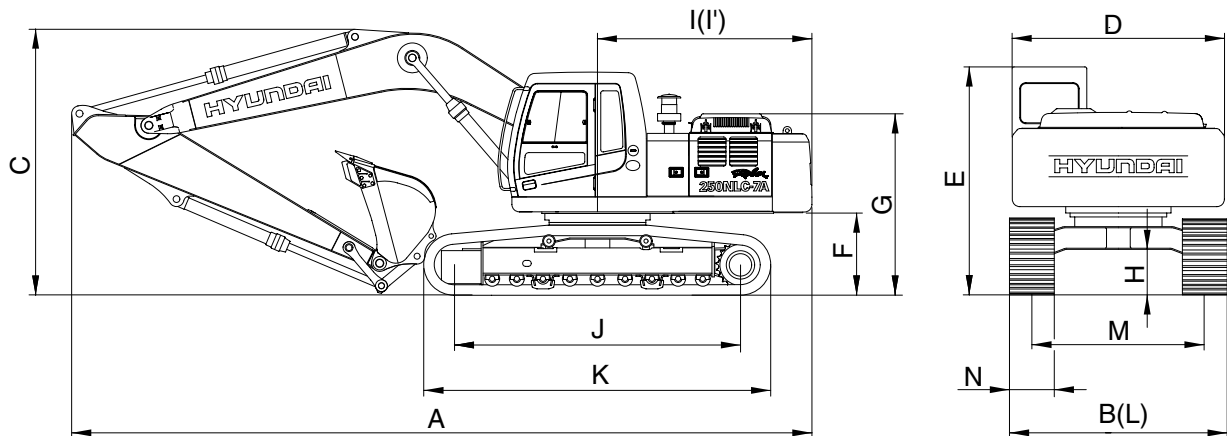
### 1) R250LC-7A



2507A2SP01

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

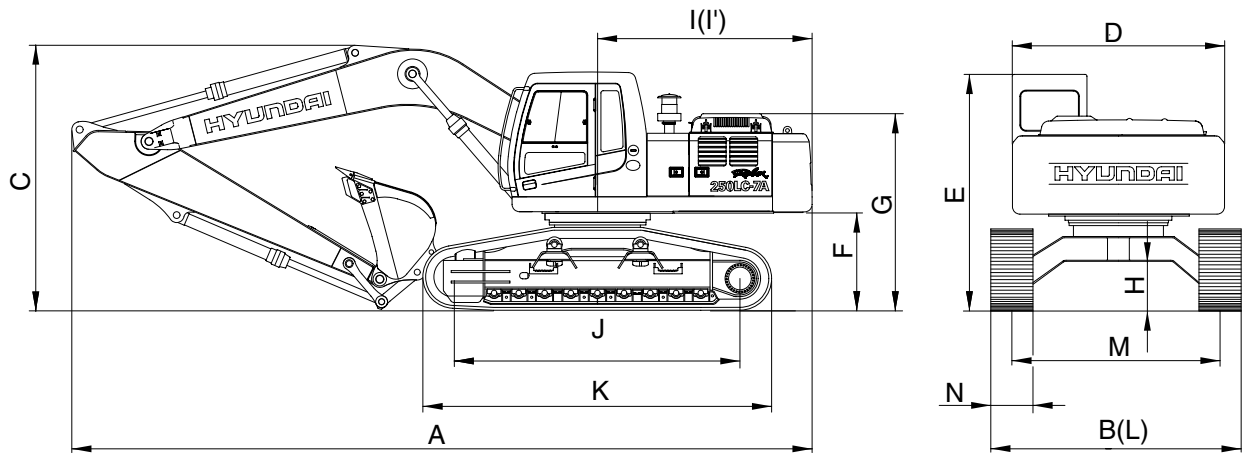
## 2) R250NLC-7A



2507A2SP02

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

### 3) R250LC-7A HIGH WALKER

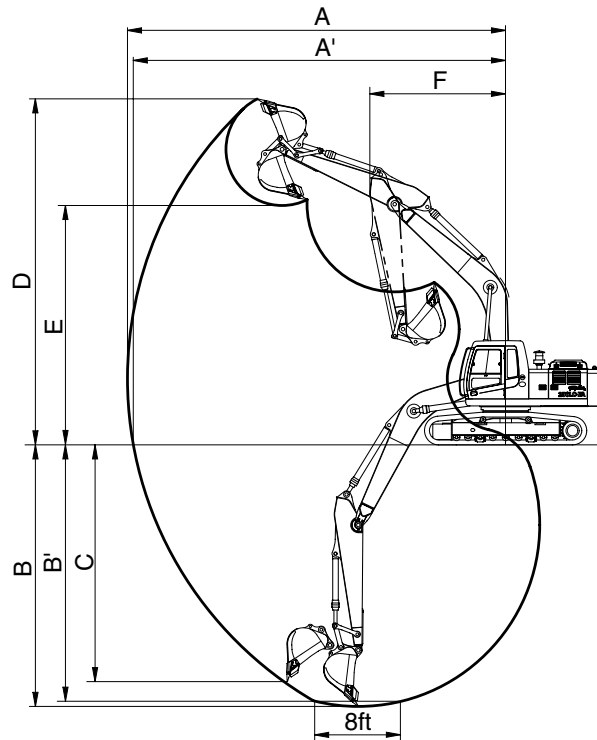


2507A2SP03

Description		Unit	Specification
Operating weight		kg(lb)	27450(60520)
Bucket capacity(SAE heaped), standard		m <sup>3</sup> (yd <sup>3</sup> )	1.08(1.41)
Overall length	A	mm(ft-in)	9760(32' 0")
Overall width, with 600mm shoe	B		3390(11' 1")
Overall height	C		3240(10' 8")
Superstructure width	D		2840( 9' 4")
Overall height of cab	E		3345(11' 0")
Ground clearance of counterweight	F		1470( 4' 10")
Engine cover height	G		2782( 9' 2")
Minimum ground clearance	H		765( 2' 6")
Rear-end distance	I		2965( 9' 9")
Rear-end swing radius	I'		2870( 9' 5")
Distance between tumblers	J		4030(13' 3")
Undercarriage length	K		4940(16' 2")
Undercarriage width	L		3390(11' 1")
Track gauge	M		2790( 9' 2")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.5/5.5(2.2/3.4)
Swing speed		rpm	12
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kgf/cm <sup>2</sup> (psi)	0.53(7.54)

### 3. WORKING RANGE

#### 1) R250LC-7A, R250NLC-7A [5.85m(19' 2") BOOM]



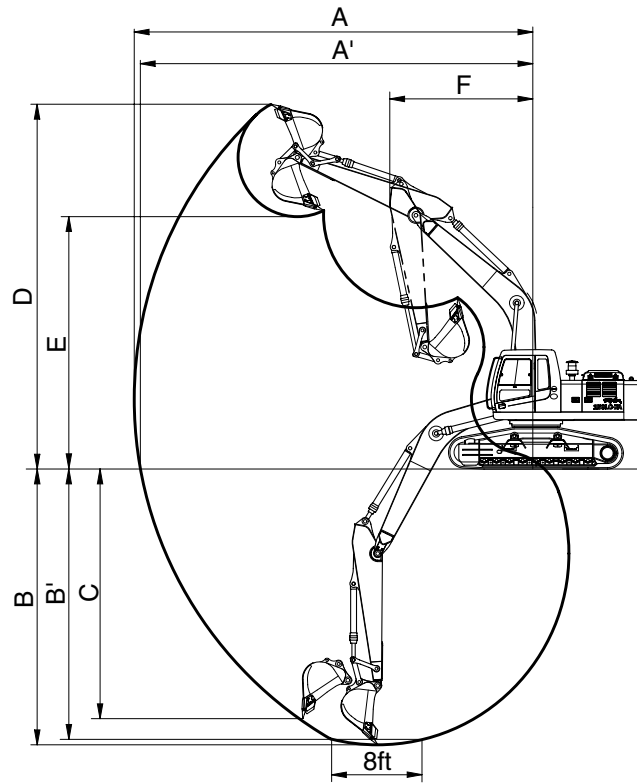
2507A2SP04

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

[ ] : Power boost

※ : STD

## 2) R250LC-7A HIGH WALKER [5.85m(19' 2") BOOM]



2507A2SP05

Description		2.10m(6' 11") Arm	2.50m(8' 2") Arm	※3.05m(10' 0") Arm	3.60m(11' 10") Arm
Max digging reach	A	9550mm(31' 4")	9870mm(32' 5")	10360mm(34' 0")	10870mm(35' 8")
Max digging reach on ground	A'	9280mm(30' 5")	9160mm(31' 6")	10110mm(33' 2")	10360mm(34' 11")
Max digging depth	B	5680mm(18' 8")	6080mm(19' 11")	6630mm(21' 9")	7180mm(23' 7")
Max digging depth (8ft level)	B'	5470mm(17' 11")	5890mm(19' 4")	6460mm(21' 2")	7030mm(23' 1")
Max vertical wall digging depth	C	5120mm(16' 10")	5300mm(17' 5")	5790mm(19' 0")	6470mm(21' 3")
Max digging height	D	9820mm(32' 3")	9840mm(32' 3")	10040mm(32' 11")	10280mm(33' 9")
Max dumping height	E	6730mm(22' 1")	6790mm(22' 3")	7000mm(23' 0")	7220mm(23' 8")
Min swing radius	F	4140mm(13' 7")	4030mm(13' 3")	3940mm(12' 11")	3900mm(12' 10")
Bucket digging force	SAE	157[171]kN	157[171]kN	157[171]kN	157[171]kN
		16000[17450]kgf	16000[17450]kgf	16000[17450]kgf	16000[17450]kgf
		35270[38480]lbf	35270[38480]lbf	35270[38480]lbf	35270[38480]lbf
	ISO	179[195]kN	179[195]kN	179[195]kN	179[195]kN
		18200[19850]kgf	18200[19850]kgf	18200[19850]kgf	18200[19850]kgf
		40120[43770]lbf	40120[43770]lbf	40120[43770]lbf	40120[43770]lbf
Arm crowd force	SAE	135[148]kN	130[142]kN	115[125]kN	117[127]kN
		13800[15050]kgf	13300[14510]kgf	11700[12760]kgf	11900[12980]kgf
		30420[33190]lbf	29320[31990]lbf	25790[28130]lbf	26230[28610]lbf
	ISO	140[153]kN	134[147]kN	119[129]kN	121[132]kN
		14300[15600]kgf	13700[14950]kgf	12100[13200]kgf	12300[13420]kgf
		31530[34400]lbf	30200[32950]lbf	26680[29110]lbf	27120[29590]lbf

[ ] : Power boost

※ : STD

## 4. WEIGHT

### 1) R250LC-7A, R250NLC-7A

Item	R250LC-7A		R250NLC-7A	
	kg	lb	kg	lb
Upperstructure assembly	10330	22770	←	←
Main frame weld assembly	2210	4870	←	←
Engine assembly	560	1240	←	←
Main pump assembly	120	260	←	←
Main control valve assembly	200	440	←	←
Swing motor assembly	345	760	←	←
Hydraulic oil tank assembly	190	420	←	←
Fuel tank assembly	180	400	←	←
Counterweight	4600	10140	←	←
Cab assembly	310	680	←	←
Lower chassis assembly	9910	21850	9810	21630
Track frame weld assembly	3070	6770	2980	6570
Swing bearing	360	800	←	←
Travel motor assembly	310	680	←	←
Turning joint	50	110	←	←
Track recoil spring and idler	300	660	←	←
Idler	170	370	←	←
Carrier roller	20	45	←	←
Track roller	50	110	←	←
Track-chain assembly (600mm standard triple grouser shoe)	1500	3310	←	←
Front attachment assembly(5.85m boom, 3.05m arm,1.08m <sup>3</sup> SAE heaped bucket)	4960	10930	←	←
5.85m boom assembly	1970	4340	←	←
3.05m arm assembly	1000	2200	←	←
1.08m <sup>3</sup> SAE heaped bucket	910	2010	←	←
Boom cylinder assembly	240	530	←	←
Arm cylinder assembly	340	750	←	←
Bucket cylinder assembly	220	490	←	←
Bucket control rod assembly	110	240	←	←

## 2) R250LC-7A HIGH WALKER

Item	R250LC-7A HIGH WALKER	
	kg	lb
Upperstructure assembly	10330	22770
Main frame weld assembly	2210	4870
Engine assembly	560	1240
Main pump assembly	120	260
Main control valve assembly	200	440
Swing motor assembly	345	760
Hydraulic oil tank assembly	190	420
Fuel tank assembly	180	400
Counterweight	4600	10140
Cab assembly	310	680
Lower chassis assembly	12160	26800
Track frame weld assembly	5280	11640
Swing bearing	360	800
Travel motor assembly	310	680
Turning joint	50	110
Track recoil spring and idler	300	660
Idler	170	370
Carrier roller	20	45
Track roller	50	110
Track-chain assembly (600mm standard triple grouser shoe)	1500	3310
Front attachment assembly(5.85m boom, 3.05m arm, 1.08m <sup>3</sup> SAE heaped bucket)	4960	10930
5.85m boom assembly	1970	4340
3.05m arm assembly	1000	2200
1.08m <sup>3</sup> SAE heaped bucket	910	2010
Boom cylinder assembly	240	530
Arm cylinder assembly	340	750
Bucket cylinder assembly	220	490
Bucket control rod assembly	110	240













## 5. LIFTING CAPACITIES

### 1) R250LC-7A













(1) 5.85m(19' 2") boom, 2.10m(6' 11") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb					*5900 *13010	5840 12870			5220 11510	3200 7050	8.32 (27.3)
4.5m (15ft)	kg lb			*7950 *17530	*7950 *17530	*6630 *14620	5570 12280	6060 13360	3690 8140	4520 9960	2710 5970	8.91 (29.2)
3.0m (10ft)	kg lb			*10440 *23020	8200 18080	*7750 *17090	5190 11440	5900 13010	3550 7830	4210 9280	2480 5470	9.17 (30.1)
1.5m (5ft)	kg lb			*12520 *27600	7520 16580	8250 18190	4850 10690	5720 12610	3380 7450	4170 9190	2430 5360	9.14 (30.0)
Ground Line	kg lb			13110 28900	7250 15980	8010 17660	4640 10230	5600 12350	3270 7210	4410 9720	2580 5690	8.80 (28.9)
-1.5m (-5ft)	kg lb	*15590 *34370	15160 33420	13090 28860	7230 15940	7940 17500	4580 10100			5060 11160	2990 6590	8.13 (26.7)
-3.0m (-10ft)	kg lb	*17410 *38380	15470 34110	*12310 *27140	7390 16290	8050 17750	4680 10320			*6420 *14150	3980 8770	6.98 (22.9)
-4.5m (-15ft)	kg lb	*13610 *30000	*13610 *30000	*9640 *21250	7790 17170							

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
















(2) 5.85m(19' 2") boom, 2.50m(8' 2") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb											4900 10800	3000 6610	8.67 (28.4)
4.5m (15ft)	kg lb							*6190 *13650	5670 12500	*5740 *12650	3770 8310	4280 9440	2550 5620	9.23 (30.3)
3.0m (10ft)	kg lb					*9730 *21450	8410 18540	*7350 *16200	5280 11640	5950 13120	3590 7910	3990 8800	2340 5160	9.48 (31.1)
1.5m (5ft)	kg lb					*12000 *26460	7650 16870	8310 18320	4910 10820	5750 12680	3410 7520	3950 8710	2290 5050	9.45 (31.0)
Ground Line	kg lb					13150 28990	7280 16050	8030 17700	4660 10270	5600 12350	3270 7210	4150 9150	2410 5310	9.13 (30.0)
-1.5m (-5ft)	kg lb			*15230 *33580	14960 32980	13050 28770	7190 15850	7910 17440	4560 10050	5550 12240	3220 7100	4690 10340	2750 6060	8.49 (27.9)
-3.0m (-10ft)	kg lb	*16500 *36380	*16500 *36380	*18440 *40650	15250 33620	*12700 *28000	7300 16090	7970 17570	4610 10160			5940 13100	3550 7830	7.41 (24.3)
-4.5m (-15ft)	kg lb			*15140 *33380	*15140 *33380	*10620 *23410	7620 16800							

(3) 5.85m(19' 2") boom, 3.05m(10' 0") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb									*4100 *9040	3950 8710	4400 9700	2660 5860	9.22 (30.2)
4.5m (15ft)	kg lb							*5460 *12040	*5460 *12040	*5160 *11380	3830 8440	3880 8550	2280 5030	9.74 (32.0)
3.0m (10ft)	kg lb			*13880 *30600	*13880 *30600	*8560 *18870	*8560 *18870	*6670 *14700	5360 11820	*5780 *12740	3620 7980	3630 8000	2090 4610	9.98 (32.7)
1.5m (5ft)	kg lb			*9530 *21010	*9530 *21010	*11070 *24410	7800 17200	*7970 *17570	4950 10910	5750 12680	3400 7500	3580 7890	2040 4500	9.95 (32.6)
Ground Line	kg lb			*10660 *23500	*10660 *23500	*12720 *28040	7280 16050	8010 17660	4640 10230	5560 12260	3230 7120	3730 8220	2130 4700	9.65 (31.7)
-1.5m (-5ft)	kg lb	*10020 *22090	*10020 *22090	*13980 *30820	*13980 *30820	12930 28510	7090 15630	7830 17260	4480 9880	5460 12040	3140 6920	4150 9150	2390 5270	9.05 (29.7)
-3.0m (-10ft)	kg lb	*13650 *30090	*13650 *30090	*18590 *40980	14860 32760	12960 28570	7110 15670	7820 17240	4470 9850			5080 11200	2980 6570	8.06 (26.4)
-4.5m (-15ft)	kg lb	*17980 *39640	*17980 *39640	*16880 *37210	15340 33820	*11570 *25510	7340 16180	8020 17680	4640 10230			*6060 *13360	4480 9880	6.48 (21.3)

(4) 5.85m(19' 2") boom, 3.60m(11' 10") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) counterweight.











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

## 2) R250NLC-7A

(1) 5.85m(19' 2") boom, 2.10m(6' 11") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb					*5900 *13010	5290 11660			5200 11460	2870 6330	8.32 (27.3)
4.5m (15ft)	kg lb			*7950 *17530	*7950 *17530	*6630 *14620	5030 11090	6040 13320	3310 7300	4500 9920	2410 5310	8.91 (29.2)
3.0m (10ft)	kg lb			*10440 *23020	7330 16160	*7750 *17090	4660 10270	5870 12940	3170 6990	4190 9240	2190 4830	9.17 (30.1)
1.5m (5ft)	kg lb			*12520 *27600	6670 14700	8210 18100	4330 9550	5690 12540	3010 6640	4150 9150	2150 4740	9.14 (30.0)
Ground Line	kg lb			13050 28770	6410 14130	7970 17570	4120 9080	5570 12280	2900 6390	4390 9680	2280 5030	8.80 (28.9)
-1.5m (-5ft)	kg lb	*15590 *34370	13120 28920	13030 28730	6390 14090	7900 17420	4060 8950			5040 11110	2660 5860	8.13 (26.7)
-3.0m (-10ft)	kg lb	*17410 *38380	13420 29590	*12310 *27140	6540 14420	8020 17680	4160 9170			*6420 *14150	3560 7850	6.98 (22.9)
-4.5m (-15ft)	kg lb	*13610 *30000	*13610 *30000	*9640 *21250	6930 15280							













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

2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.













3. The load point is a hook located on the back of the bucket.

4. \*indicates load limited by hydraulic capacity.
















(2) 5.85m(19' 2") boom, 2.50m(8' 2") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb											4880 10760	2680 5910	8.67 (28.4)
4.5m (15ft)	kg lb						*6190 *13650	5130 11310	*5740 *12650	3380 7450	4260 9390	2270 5000	9.23 (30.3)	
3.0m (10ft)	kg lb					*9730 *21450	7530 16600	*7350 *16200	4750 10470	5920 13050	3210 7080	3970 8750	2070 4560	9.48 (31.1)
1.5m (5ft)	kg lb					*12000 *26460	6790 14970	8270 18230	4380 9660	5720 12610	3030 6680	3930 8660	2020 4450	9.45 (31.0)
Ground Line	kg lb					13090 28860	6440 14200	7990 17610	4140 9130	5570 12280	2900 6390	4130 9110	2120 4670	9.13 (30.0)
-1.5m (-5ft)	kg lb			*15230 *33580	12930 28510	12990 28640	6350 14000	7880 17370	4040 8910	5520 12170	2850 6280	4670 10300	2440 5380	8.49 (27.9)
-3.0m (-10ft)	kg lb	*16500 *36380	*16500 *36380	*18440 *40650	13210 29120	*12700 *28000	6450 14220	7940 17500	4090 9020			5910 13030	3170 6990	7.41 (24.3)
-4.5m (-15ft)	kg lb			*15140 *33380	13750 30310	*10620 *23410	6760 14900							

(3) 5.85m(19' 2") boom, 3.05m(10' 0") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb									*4100 *9040	3570 7870	4380 9660	2370 5220	9.22 (30.2)
4.5m (15ft)	kg lb							*5460 *12040	5230 11530	*5160 *11380	3440 7580	3860 8510	2020 4450	9.74 (32.0)
3.0m (10ft)	kg lb			*13880 *30600	*13880 *30600	*8560 *18870	7780 17150	*6670 *14700	4830 10650	*5780 *12740	3240 7140	3610 7960	1840 4060	9.98 (32.7)
1.5m (5ft)	kg lb			*9530 *21010	*9530 *21010	*11070 *24410	6940 15300	*7970 *17570	4420 9740	5720 12610	3030 6680	3560 7850	1790 3950	9.95 (32.6)
Ground Line	kg lb			*10660 *23500	*10660 *23500	*12720 *28040	6430 14180	7980 17590	4120 9080	5530 12190	2850 6280	3710 8180	1860 4100	9.65 (31.7)
-1.5m (-5ft)	kg lb	*10020 *22090	*10020 *22090	*13980 *30820	12620 27820	12870 28370	6250 13780	7790 17170	3960 8730	5430 11970	2760 6080	4130 9110	2100 4630	9.05 (29.7)
-3.0m (-10ft)	kg lb	*13650 *30090	*13650 *30090	*18590 *40980	12840 28310	12900 28440	6270 13820	7780 17150	3950 8710			5060 11160	2640 5820	8.06 (26.4)
-4.5m (-15ft)	kg lb	*17980 *39640	*17980 *39640	*16880 *37210	13290 29300	*11570 *25510	6490 14310	7980 17590	4120 9080			*6060 *13360	4010 8840	6.48 (21.3)

(4) 5.85m(19' 2") boom, 3.60m(11' 10") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) counterweight.











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

### 3) R250LC-7A HIGH WALKER

(1) 5.85m(19' 2") boom, 2.10m(6' 11") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb					*6020 *13270	*6020 *13270			*5390 *11880	3780 8330	8.49 (27.9)
4.5m (15ft)	kg lb			*8510 *18760	*8510 *18760	*6870 *15150	6680 14730	*6200 *13670	4530 9990	5310 11710	3310 7300	9.00 (29.5)
3.0m (10ft)	kg lb			*11020 *24290	9880 21780	*8020 *17680	6290 13870	*6710 *14790	4370 9630	5040 11110	3110 6860	9.19 (30.2)
1.5m (5ft)	kg lb			*12840 *28310	9280 20460	*9060 *19970	5970 13160	6840 15080	4210 9280	5080 11200	3120 6880	9.09 (29.8)
Ground Line	kg lb			*13480 *29720	9080 20020	9620 21210	5790 12760	6740 14860	4120 9080	5450 12020	3360 7410	8.68 (28.5)
-1.5m (-5ft)	kg lb	*17660 *38930	*17660 *38930	*13180 *29060	9100 20060	9590 21140	5760 12700			6380 14070	3950 8710	7.91 (26.0)
-3.0m (-10ft)	kg lb	*16740 *36910	*16740 *36910	*11890 *26210	9310 20530	*8600 *18960	5920 13050			*6310 *13910	5420 11950	6.61 (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) 5.85m(19' 2") boom, 2.50m(8' 2") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb							*5540 *12210	*5540 *12210			*5050 *11130	3560 7850	8.83 (29.0)
4.5m (15ft)	kg lb					*7770 *17130	*7770 *17130	*6440 *14200	*6440 *14200	*5850 10140	4600	5030 11090	3140 6920	9.32 (30.6)
3.0m (10ft)	kg lb					*10330 22770	10080 22220	*7650 *16870	6380 14070	*6430 *14180	4410 9720	4790 10560	2950 6500	9.50 (31.2)
1.5m (5ft)	kg lb					*12400 *27340	9390 20700	*8780 *19360	6020 13270	6860 15120	4230 9330	4810 10600	2940 6480	9.40 (30.8)
Ground Line	kg lb					*13360 *29450	9090 20040	*9520 *20990	5800 12790	6730 14840	4110 9060	5120 11290	3140 6920	9.01 (29.6)
-1.5m (-5ft)	kg lb	*12220 *26940	*12220 *26940	*16770 *36970	*16770 *36970	*13340 *29410	9050 19950	9560 21080	5730 12630			5900 13010	3640 8020	8.28 (27.2)
-3.0m (-10ft)	kg lb	*17990 *39660	*17990 *39660	*17840 *39330	*17840 *39330	*12370 *27270	9210 20300	*9020 *19890	5830 12850			*6400 *14110	4810 10660	7.07 (23.2)
-4.5m (-15ft)	kg lb			*13960 *30780	*13960 *30780	*9750 *21500	9610 21190							

(3) 5.85m(19' 2") boom, 3.05m(10' 0") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) 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)
6.0m (20ft)	kg lb									*4570 *10080	*4570 *10080	*4600 *10140	3190 7030	9.37 (30.7)
4.5m (15ft)	kg lb							*5720 *12610	*5720 *12610	*5290 *11660	4650 10250	4590 10120	2830 6240	9.82 (32.2)
3.0m (10ft)	kg lb			*15600 *34390	*15600 *34390	*9200 *20280	*9200 *20280	*6980 *15390	6450 14220	*5940 *13100	4430 9770	4370 9630	2660 5860	9.99 (32.8)
1.5m (5ft)	kg lb			*9380 *20680	*9380 *20680	*11560 *25490	9510 20970	*8240 *18170	6050 13340	*6640 *14640	4220 9300	4380 9660	2650 5840	9.90 (32.5)
Ground Line	kg lb	*7400 *16310	*7400 *16310	*11330 *24980	*11330 *24980	*12950 *28550	9060 19970	*9180 *20240	5760 12700	6680 14730	4060 8950	4620 10190	2800 6170	9.53 (31.3)
-1.5m (-5ft)	kg lb	*10840 *23900	*10840 *23900	*14940 *32940	*14940 *32940	*13340 *29410	8920 19670	9460 20860	5640 12430	6610 14570	3990 8800	5220 11510	3180 7010	8.85 (29.0)
-3.0m (-10ft)	kg lb	*14600 *32190	*14600 *32190	*19040 *41980	*19040 *41980	*12790 *28200	9000 19840	*9310 *20530	5660 12480			*6120 *13490	4040 8910	7.76 (25.5)
-4.5m (-15ft)	kg lb			*15960 *35190	*15960 *35190	*10980 *24210	9290 20480							

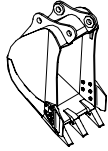
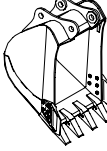
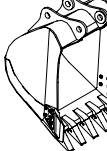
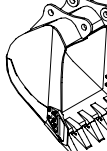


(4) 5.85m(19' 2") boom, 3.60m(11' 10") arm equipped with 1.08m<sup>3</sup>(SAE heaped) bucket and 600mm (24") triple grouser shoe and 4600kg(10140lb) counterweight.

Load point height		Load radius												At max. reach		
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
																m(ft)
6.0m (20ft)	kg lb									*4280 *9440	*4280 *9440			*4210 *9280	2870 6330	9.92 (32.5)
4.5m (15ft)	kg lb									*4760 *10490	4720 10410	*3150 *6940	*3150 *6940	4190 9240	2560 5640	10.34 (33.9)
3.0m (10ft)	kg lb			*12780 *28180	*12780 *28180	*8090 *17840	*8090 *17840	*6340 *13980	*6340 *13980	*5480 *12080	4480 9880	*4200 *9260	3200 7050	4000 8820	2410 5310	10.50 (34.4)
1.5m (5ft)	kg lb			*11520 *25400	*11520 *25400	*10710 *23610	9730 21450	*7720 *17020	6130 13510	*6260 *13800	4240 9350	*4810 *10600	3070 6770	4000 8820	2390 5270	10.42 (34.2)
Ground Line	kg lb	*6860 *15120	*6860 *15120	*11460 *25260	*11460 *25260	*12470 *27490	9150 20170	*8820 *19440	5800 12790	6680 14730	4050 8930	*4500 *9920	2980 6570	4200 9260	2510 5530	10.07 (33.0)
-1.5m (-5ft)	kg lb	*9790 *21580	*9790 *21580	*14050 *30970	*14050 *30970	*13240 *29190	8910 19640	9440 20810	5610 12370	6560 14460	3940 8690			4670 10300	2810 6190	9.44 (31.0)
-3.0m (-10ft)	kg lb	*13030 *28730	*13030 *28730	*18050 *39790	*18050 *39790	*13080 *28840	8900 19620	9400 20720	5580 12300	6560 14460	3940 8690			5650 12460	3450 7610	8.43 (27.7)
-4.5m (-15ft)	kg lb	*16990 *37460	*16990 *37460	*17530 *38650	*17530 *38650	*11820 *26060	9100 20060	*8500 *18740	5720 12610					*5890 *12990	5000 11020	6.86 (22.5)


## 6. BUCKET SELECTION GUIDE


### 1) GENERAL BUCKET


			
0.60m <sup>3</sup> SAE 0.79m <sup>3</sup> SAE heaped bucket	1.03m <sup>3</sup> SAE heaped bucket	※ 1.08m <sup>3</sup> SAE heaped bucket	1.50m <sup>3</sup> SAE heaped bucket

Capacity		Width		Weight	Recommendation			
SAE heaped	CECE heaped	Without side cutter	With side cutter		5.85m (19' 2") boom			
					2.1m arm (6' 11")	2.5m arm (8' 2")	3.05m arm (10' 0")	3.6m arm (11' 10")
0.60m <sup>3</sup> (0.78yd <sup>3</sup> )	0.55m <sup>3</sup> (0.72yd <sup>3</sup> )	760mm (29.9")	880mm (34.6")	720kg (1590lb)				
0.79m <sup>3</sup> (1.03yd <sup>3</sup> )	0.70m <sup>3</sup> (0.92yd <sup>3</sup> )	890mm (35.0")	1010mm (39.8")	790kg (1740lb)				
1.03m <sup>3</sup> (1.35yd <sup>3</sup> )	0.90m <sup>3</sup> (1.18yd <sup>3</sup> )	1090mm (42.9")	1210mm (47.6")	890kg (1960lb)				
※ 1.08m <sup>3</sup> (1.41yd <sup>3</sup> )	0.95m <sup>3</sup> (1.24yd <sup>3</sup> )	1130mm (44.5")	1250mm (49.2")	910kg (2010lb)				
1.50m <sup>3</sup> (1.96yd <sup>3</sup> )	1.30m <sup>3</sup> (1.70yd <sup>3</sup> )	1490mm (58.7")	1610mm (63.4")	1080kg (2380lb)				

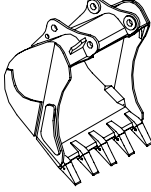
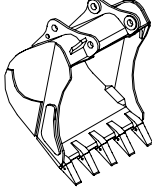
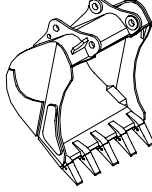
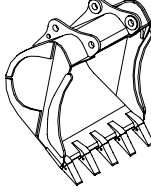
※ : Standard bucket

 Applicable for materials with density of 2000kgf/m<sup>3</sup> (3370lbf/yd<sup>3</sup>) or less

 Applicable for materials with density of 1600kgf/m<sup>3</sup> (2700lbf/yd<sup>3</sup>) or less

 Applicable for materials with density of 1100kgf/m<sup>3</sup> (1850lbf/yd<sup>3</sup>) or less

## 2) ROCK AND HEAVY DUTY BUCKET

			
<p>◆ 1.07m<sup>3</sup> SAE ◆ 1.15m<sup>3</sup> SAE heaped bucket</p>	<p>◆ 1.27m<sup>3</sup> SAE heaped bucket</p>	<p>◆ 1.46m<sup>3</sup> SAE heaped bucket</p>	<p>◎ 1.16m<sup>3</sup> SAE heaped bucket</p>

Capacity		Width		Weight	Recommendation			
SAE heaped	CECE heaped	Without side cutter	With side cutter		5.85m (19' 2") boom			
					2.1m arm (6' 11")	2.5m arm (8' 2")	3.05m arm (10' 0")	3.6m arm (11' 10")
◆ 1.07m <sup>3</sup> (1.40yd <sup>3</sup> )	0.95m <sup>3</sup> (1.24yd <sup>3</sup> )	1150mm (45.3")	-	1120kg (2470lb)				
◆ 1.15m <sup>3</sup> (1.50yd <sup>3</sup> )	1.00m <sup>3</sup> (1.31yd <sup>3</sup> )	1210mm (47.6")	-	1160kg (2560lb)				
◆ 1.27m <sup>3</sup> (1.66yd <sup>3</sup> )	1.10m <sup>3</sup> (1.44yd <sup>3</sup> )	1310mm (51.6")	-	1240kg (2730lb)				
◆ 1.46m <sup>3</sup> (1.91yd <sup>3</sup> )	1.28m <sup>3</sup> (1.67yd <sup>3</sup> )	1460mm (57.5")	-	1320kg (2910lb)				
◎ 1.16m <sup>3</sup> (1.52yd <sup>3</sup> )	1.00m <sup>3</sup> (1.31yd <sup>3</sup> )	1340mm (52.8")	-	1280kg (2820lb)				

◆ : Heavy duty bucket

◎ : Rock bucket

Applicable for materials with density of 2000kgf/m<sup>3</sup> (3370lbf/yd<sup>3</sup>) or less

Applicable for materials with density of 1600kgf/m<sup>3</sup> (2700lbf/yd<sup>3</sup>) or less

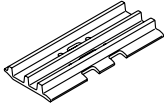
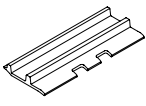
Applicable for materials with density of 1100kgf/m<sup>3</sup> (1850lbf/yd<sup>3</sup>) or less

## 7. UNDERCARRIAGE

### 1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

### 2) TYPES OF SHOES

Model	Shapes		Triple grouser				Double grouser
							
R250LC-7A	Shoe width	mm(in)	600(24)	700(28)	800(32)	900(36)	710(28)
	Operating weight	kg(lb)	25200(55600)	25500(26200)	25800(56900)	26100(57500)	-
	Ground pressure	kgf/cm <sup>2</sup> (psi)	0.51(7.25)	0.44(6.26)	0.39(5.55)	0.35(4.98)	-
	Overall width	mm(ft-in)	3180(10' 5")	3280(10' 9")	3380(11' 1")	3480(11' 5")	-
R250NLC-7A	Shoe width	mm(in)	600(24)	-	-	-	-
	Operating weight	kg(lb)	25100(55300)	-	-	-	-
	Ground pressure	kgf/cm <sup>2</sup> (psi)	0.51(7.25)	-	-	-	-
	Overall width	mm(ft-in)	2980( 9' 9")	-	-	-	-
R250LC-7A HIGH WALKER	Shoe width	mm(in)	600(24)	700(28)	800(32)	-	710(28)
	Operating weight	kg(lb)	27450(60520)	28020(61770)	28400(62610)	-	28620(63100)
	Ground pressure	kgf/cm <sup>2</sup> (psi)	0.53(7.54)	0.46(6.54)	0.41(5.83)	-	0.46(6.54)
	Overall width	mm(ft-in)	3180(10' 5")	3280(10' 9")	3380(11' 1")	-	3290(10' 10")

### 3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity	
	R250LC-7A, R250NLC-7A	R250LC-7A HIGH WALKER
Carrier rollers	2EA	2EA
Track rollers	9EA	9EA
Track shoes	51EA	48EA

#### 4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

##### Method of selecting shoes

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

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

※ **Table 1**

Track shoe	Specification	Category
600mm triple grouser	Standard	A
700mm triple grouser	Option	B
710mm double grouser★1	Option	B
800mm triple grouser	Option	C
900mm triple grouser	Option	C

★1 : R250LC-7A HIGH WALKER ONLY

※ **Table 2**

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

## 8. SPECIFICATIONS FOR MAJOR COMPONENTS

### 1) ENGINE

Item	Specification
Model	Cummins QSB6.7
Type	4-cycle turbocharged, charger air coded diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	107 × 124mm(4.2" × 4.9")
Piston displacement	6700cc(409cu in)
Compression ratio	17.2 : 1
Rated gross horse power(SAE J1995)	176Hp at 1900rpm(131kW at 1900rpm)
Maximum torque	81.4kgf · m(589lbf · ft) at 1400rpm
Engine oil quantity	24 l (4.9U.S. gal)
Dry weight	556kg(1115lb)
High idling speed	1950+ 50rpm
Low idling speed	850 ± 100rpm
Rated fuel consumption	165.9g/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 <sup>2</sup> (4690psi)[360kgf/cm <sup>2</sup> (5120psi)]
Rated oil flow	2 × 222 l /min (58.7U.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 <sup>2</sup> (500psi)
Rated oil flow	28.5 l /min(7.45U.S. gpm/6.27U.K. gpm)

### 4) MAIN CONTROL VALVE

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

[ ]: Power boost

### 5) SWING MOTOR

Item	Specification
Type	Axial piston motor
Capacity	148.5cc/rev
Relief pressure	280kgf/cm <sup>2</sup> (3980psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	70kgf · m(506lb · ft)
Brake release pressure	35kgf/cm <sup>2</sup> (500psi)
Reduction gear type	2 - stage planetary

### 6) TRAVEL MOTOR

Item	Specification
Type	Axial piston motor
Relief pressure	330kgf/cm <sup>2</sup> (4690psi)
Capacity(max / min)	168.4/102.5cc/rev
Reduction gear type	Planetary differential
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	8.0kgf/cm <sup>2</sup> (114psi)
Braking torque	49.3kgf · m(357lb · ft)

## 7) REMOTE CONTROL VALVE

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

## 8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	∅ 140 × ∅ 95 × 1345mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	∅ 150 × ∅ 100 × 1620mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	∅ 135 × ∅ 90 × 1185mm
	Cushion	Extend only

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

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

## 9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R250LC-7A	Standard	600mm(24")	0.51kgf/cm <sup>2</sup> (7.25psi)	51	3180mm(10' 5")
	Option	700mm(28")	0.44kgf/cm <sup>2</sup> (6.26psi)	51	3280mm(10' 9")
		800mm(32")	0.39kgf/cm <sup>2</sup> (5.55psi)	51	3380mm(11' 1")
		900mm(36")	0.35kgf/cm <sup>2</sup> (4.98psi)	51	3480mm(11' 5")
R250NLC-7A	Standard	600mm(24")	0.51kgf/cm <sup>2</sup> (7.25psi)	51	2980mm(9' 9")
R250LC-7A HIGH WALKER	Standard	600mm(24")	0.53kgf/cm <sup>2</sup> (7.54psi)	48	3180mm(10' 5")
	Option	700mm(28")	0.46kgf/cm <sup>2</sup> (6.54psi)	48	3280mm(10' 9")
		800mm(32")	0.41kgf/cm <sup>2</sup> (5.83psi)	48	3380mm(11' 1")
		★710mm(28")	0.46kgf/cm <sup>2</sup> (6.54psi)	48	3290mm(10' 10")

★: Double grouser



10) BUCKET

Item		Capacity		Tooth quantity	Width		
		SAE heaped	CECE heaped		Without side cutter	With side cutter	
R250LC-7A R250NLC-7A R250LC-7A H/WALKER	Standard	1.08m <sup>3</sup> (1.41yd <sup>3</sup> )	0.95m <sup>3</sup> (1.24yd <sup>3</sup> )	5	1130mm(44.5")	1250mm(49.2")	
	Option	◆	0.60m <sup>3</sup> (0.78yd <sup>3</sup> )	0.55m <sup>3</sup> (0.72yd <sup>3</sup> )	3	760mm(29.9")	880mm(34.6")
		◆	0.79m <sup>3</sup> (1.03yd <sup>3</sup> )	0.70m <sup>3</sup> (0.92yd <sup>3</sup> )	3	890mm(35.0")	1010mm(39.8")
		◆	1.03m <sup>3</sup> (1.35yd <sup>3</sup> )	0.90m <sup>3</sup> (1.18yd <sup>3</sup> )	4	1090mm(42.9")	1210mm(47.6")
		◆	◆1.07m <sup>3</sup> (1.40yd <sup>3</sup> )	0.95m <sup>3</sup> (1.24yd <sup>3</sup> )	5	1150mm(45.3")	-
		◆	◆1.15m <sup>3</sup> (1.50yd <sup>3</sup> )	1.00m <sup>3</sup> (1.31yd <sup>3</sup> )	5	1210mm(47.6")	-
		◆	◆1.27m <sup>3</sup> (1.66yd <sup>3</sup> )	1.10m <sup>3</sup> (1.44yd <sup>3</sup> )	5	1310mm(51.6")	-
		◆	◆1.46m <sup>3</sup> (1.91yd <sup>3</sup> )	1.28m <sup>3</sup> (1.67yd <sup>3</sup> )	5	1460mm(57.5")	-
		◎	◎1.16m <sup>3</sup> (1.52yd <sup>3</sup> )	1.00m <sup>3</sup> (1.31yd <sup>3</sup> )	5	1340mm(52.8")	-
		◆	1.50m <sup>3</sup> (1.96yd <sup>3</sup> )	1.30m <sup>3</sup> (1.70yd <sup>3</sup> )	6	1490mm(58.7")	1610mm(63.4")

◆ : Heavy duty bucket

◎ : Rock bucket(ESCO type)

## 9. RECOMMENDED OILS

Use only oils listed below or equivalent.

Do not mix different brand oil.

Service point	Kind of fluid	Capacity 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	25(6.6)	SAE 30						
			SAE 10W						
			SAE 10W-30						
							SAE 15W-40		
Swing drive	Gear oil	6.0(1.6)	SAE 85W-140						
Final drive		3.3 × 2 (0.9 × 2)							
Hydraulic tank	Hydraulic oil	Tank; 190(50.2) System; 300(79.3)	ISO VG 32						
			ISO VG 46						
						ISO VG 68			
Fuel tank	Diesel fuel	340(89.8)	ASTM D975 NO.1						
							ASTM D975 NO.2		
Fitting (Grease nipple)	Grease	As required	NLGI NO.1						
							NLGI NO.2		
Radiator (Reservoir tank)	Mixture of antifreeze and water 50 : 50	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