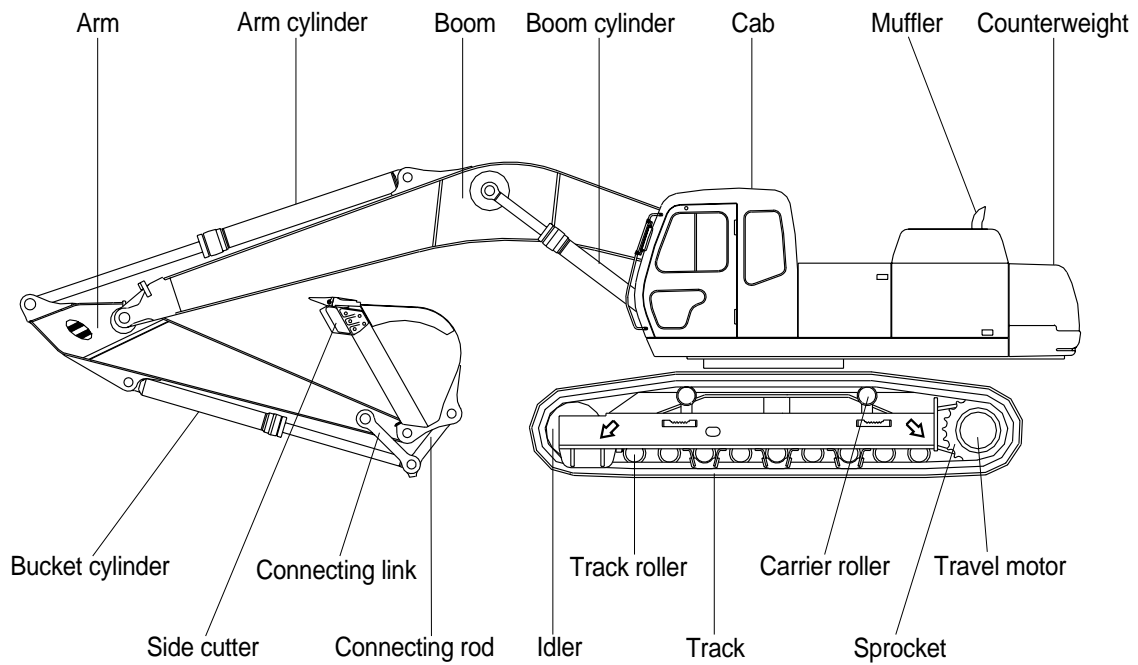
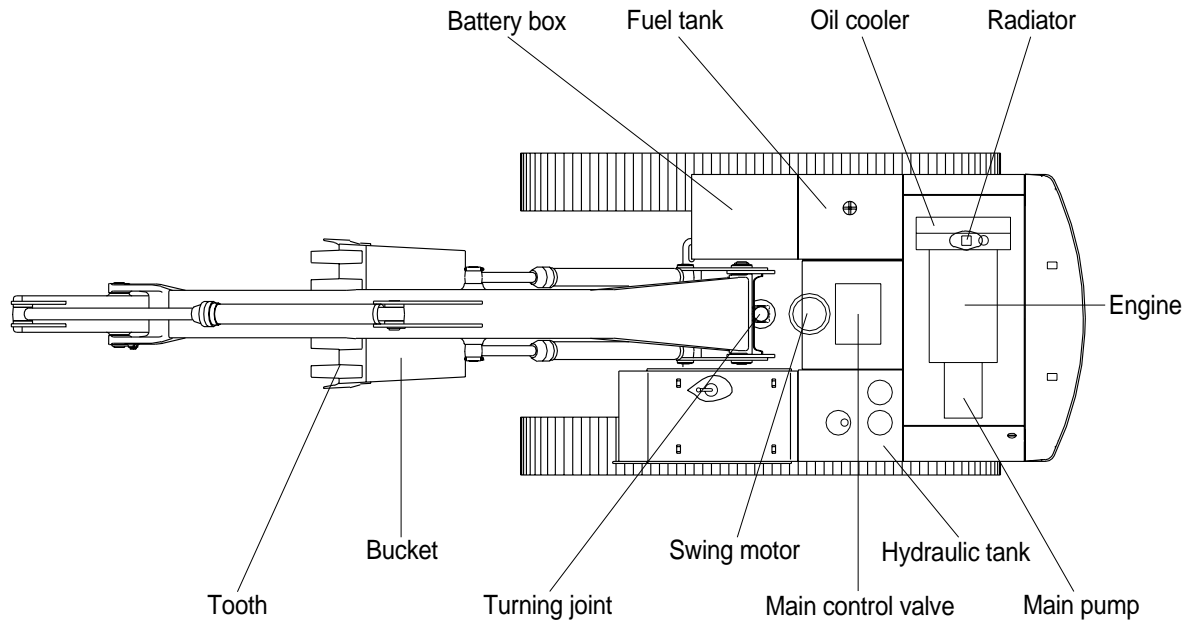


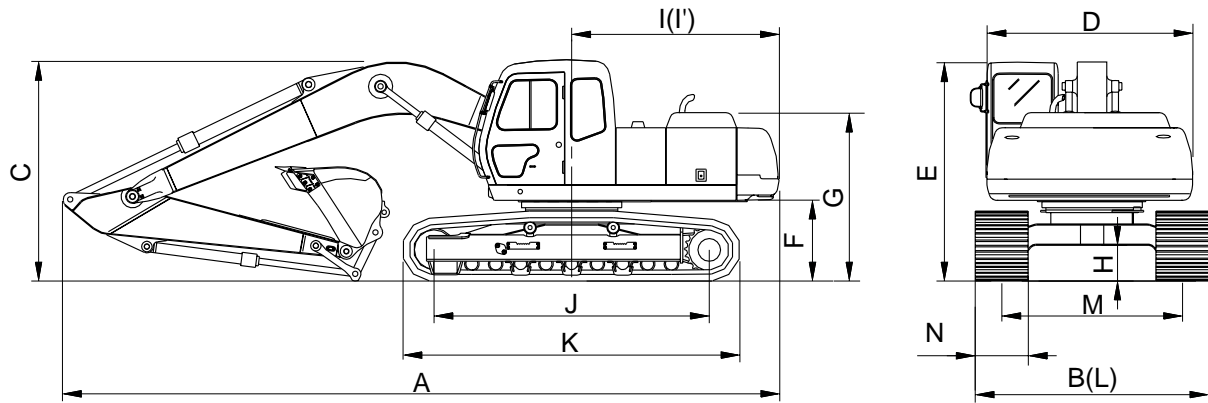
GROUP 2 SPECIFICATION

1. MAJOR COMPONENTS



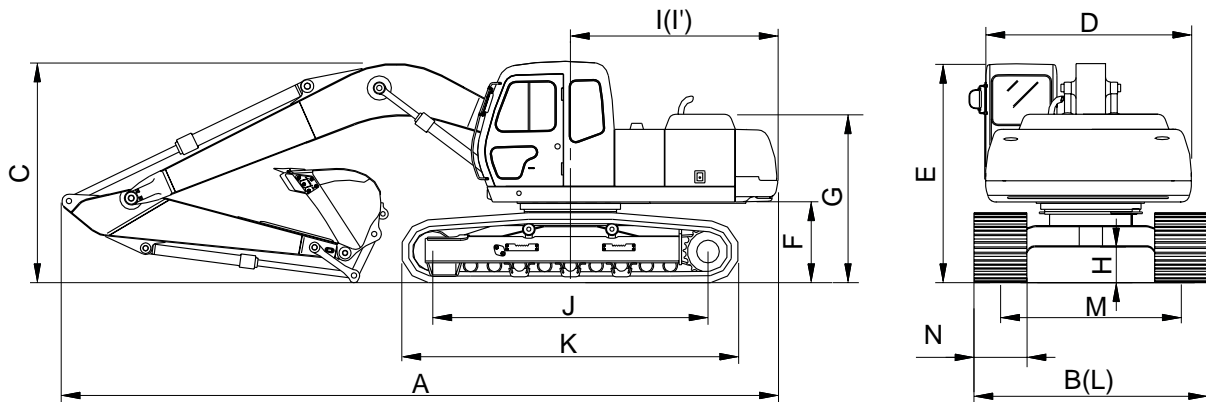
2. SPECIFICATIONS

1) ROBEX 320-3



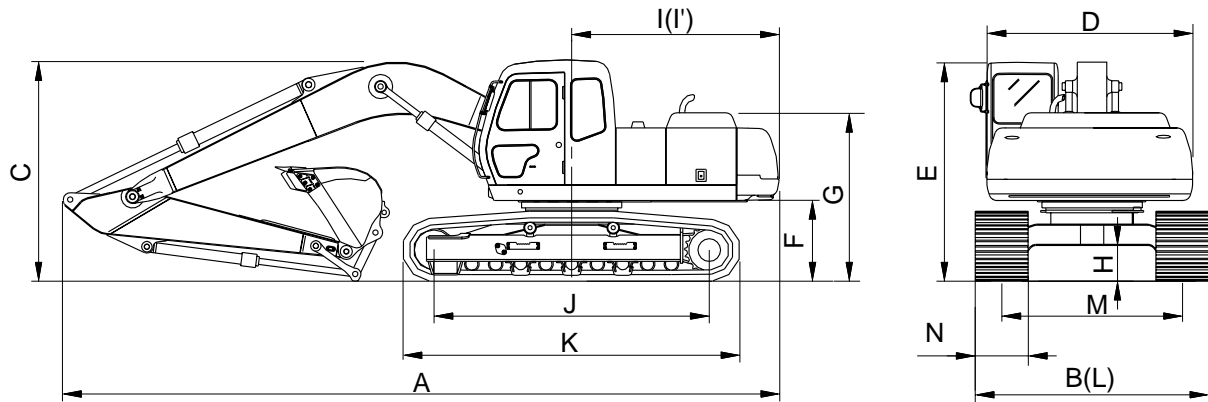
Description		Unit	Specification
Operating weight		kg(lb)	30150(66470)
Bucket capacity(PCSA heaped), standard		m ³ (yd ³)	1.44(1.89)
Overall length	A	mm(ft-in)	10860(35' 8")
Overall width, with 600mm shoe	B		3280(10' 9")
Overall height	C		3360(11' 0")
Superstructure width	D		2920(9' 7")
Overall height of cab	E		3060(10' 0")
Ground clearance of counterweight	F		1205(3' 11")
Engine cover height	G		2530(8' 4")
Minimum ground clearance	H		505(1' 8")
Rear-end distance	I		3250(10' 8")
Rear-end swing radius	I'		3250(10' 8")
Distance between tumblers	J		3710(12' 2")
Undercarriage length	K		4630(15' 2")
Undercarriage width	L		3280(10' 9")
Track gauge	M		2680(8' 10")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)			km/hr(mph)
Swing speed		rpm	9.0
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kg/cm ² (psi)	0.62(8.82)

2) ROBEX 320LC-3



Description		Unit	Specification
Operating weight		kg(lb)	31200(68780)
Bucket capacity(PCSA heaped), standard		m ³ (yd ³)	1.44(1.89)
Overall length	A	mm(ft-in)	10860(35' 8")
Overall width, with 600mm shoe	B		3280(10' 9")
Overall height	C		3360(11' 0")
Superstructure width	D		2920(9' 7")
Overall height of cab	E		3060(10' 0")
Ground clearance of counterweight	F		1205(3' 11")
Engine cover height	G		2530(8' 4")
Minimum ground clearance	H		505(1' 8")
Rear-end distance	I		3250(10' 8")
Rear-end swing radius	I'		3250(10' 8")
Distance between tumblers	J		4020(13' 2")
Undercarriage length	K		4940(16' 2")
Undercarriage width	L		3280(10' 9")
Track gauge	M		2680(8' 10")
Track shoe width, standard	N		600(24")
Travel speed(Low/high)		km/hr(mph)	3.1/4.6(1.9/2.8)
Swing speed		rpm	9.0
Gradeability		Degree(%)	35(70)
Ground pressure(600mm shoe)		kg/cm ² (psi)	0.60(8.53)

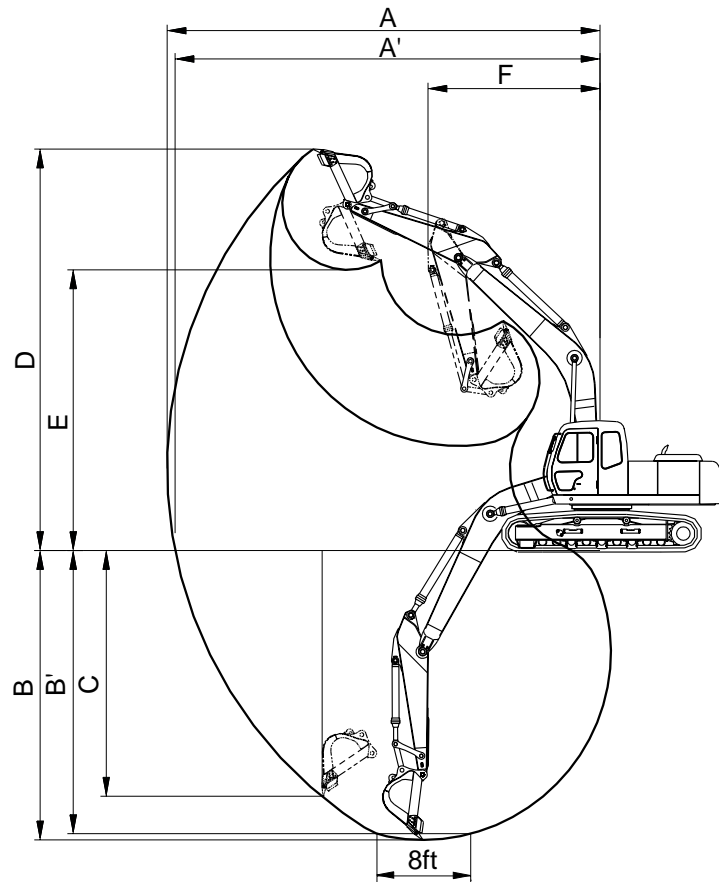
3) ROBEX 320NLC-3



Description		Unit	Specification	
Operating weight		kg(lb)	31000(68340)	
Bucket capacity(PCSA heaped), standard		m ³ (yd ³)	1.44(1.89)	
Overall length	A	mm(ft-in)	10860(35' 8")	
Overall width, with 600mm shoe	B		2990(9' 10")	
Overall height	C		3360(11' 0")	
Superstructure width	D		2920(9' 7")	
Overall height of cab	E		3060(10' 0")	
Ground clearance of counterweight	F		1205(3' 11")	
Engine cover height	G		2530(8' 4")	
Minimum ground clearance	H		505(1' 8")	
Rear-end distance	I		3250(10' 8")	
Rear-end swing radius	I'		3250(10' 8")	
Distance between tumbler	J		4020(13' 2")	
Undercarriage length	K		4940(16' 2")	
Undercarriage width	L		2990(9' 10")	
Track gauge	M		2390(7' 10")	
Track shoe width, standard	N		600(24")	
Travel speed(Low/high)			km/hr(mph)	3.1/4.6(1.9/2.9)
Swing speed			rpm	9.0
Gradeability		Degree(%)	35(70)	
Ground pressure(600mm shoe)		kg/cm ² (psi)	0.59(8.39)	

3. WORKING RANGE

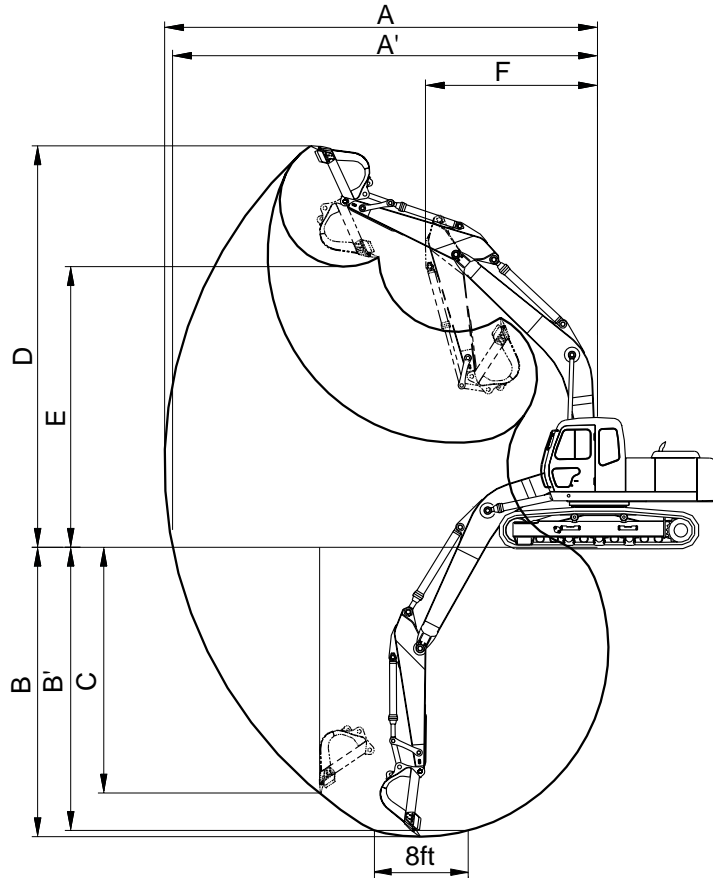
1) STANDARD BOOM (6.45m, 21' 2")



Description		2.2m(7' 3") Arm	2.5m(8' 2")Arm(A)	2.5m(8' 2")Arm(B)	3.2m(10' 6") Arm	4.05m(13' 3") Arm
Max digging reach	A	10340mm (33' 11")	10570mm (34' 8")	10740mm (35' 3")	11140mm (36' 7")	11930mm (39' 2")
Max digging reach on ground	A'	10130mm (33' 3")	10360mm (34' 0")	10540mm (34' 7")	10950mm (35' 11")	11750mm (38' 7")
Max digging depth	B	6500mm (21' 4")	6800mm (22' 4")	6870mm (22' 6")	7500mm (24' 7")	8350mm (27' 5")
Max digging depth (8ft level)	B'	6300mm (20' 8")	6610mm (21' 8")	6700mm (22' 0")	7330mm (24' 1")	8210mm (26' 11")
Max vertical wall digging depth	C	5650mm (18' 6")	5950mm (19' 6")	5960mm (19' 7")	6360mm (20' 10")	7280mm (23' 11")
Max digging height	D	10170mm (33' 4")	10170mm (33' 4")	10280mm (33' 9")	10210mm (33' 6")	10580mm (34' 9")
Max dumping height	E	7010mm (23' 0")	7020mm (23' 0")	7090mm (23' 3")	7140mm (23' 5")	7490mm (24' 7")
Min swing radius	F	4630mm (15' 2")	4550mm (14' 11")	4560mm (15' 0")	4460mm (14' 8")	4380mm (14' 4")
Bucket digging force		174 [190] kN	174 [190] kN	155 [170] kN	174 [190] kN	174 [190] kN
		17700 [19360] kgf	17700 [19360] kgf	15800 [17280] kgf	17700 [19360] kgf	17700 [19360] kgf
		39020 [42680] lbf	39020 [42680] lbf	34830 [38100] lbf	39020 [42680] lbf	39020 [42680] lbf
Arm digging force		177 [193] kN	157 [172] kN	156 [171] kN	129 [141] kN	111 [121] kN
		18000 [19690] kgf	16000 [17500] kgf	15900 [17390] kgf	13100 [14300] kgf	11300 [12360] kgf
		39680 [43410] lbf	35270 [38580] lbf	35050 [38340] lbf	28880 [31590] lbf	24910 [27250] lbf

[] : Power boost

2) OPTION BOOM (6.15m, 20' 2")



Description		2.2m(7' 3") Arm	2.5m(8' 2") Arm(A)	2.5m(8' 2") Arm(B)
Max digging reach	A	10020mm (32' 10")	10250mm (33' 8")	10430mm (34' 3")
Max digging reach on ground	A'	9810mm (32' 2")	10040mm (32' 11")	10220mm (33' 6")
Max digging depth	B	6170mm (20' 3")	6470mm (21' 3")	6660mm (21' 10")
Max digging depth (8ft level)	B'	5970mm (19' 7")	6300mm (20' 8")	6480mm (21' 3")
Max vertical wall digging depth	C	5480mm (18' 0")	5630mm (18' 6")	5900mm (19' 4")
Max digging height	D	9860mm (32' 4")	9850mm (32' 4")	9960mm (32' 8")
Max dumping height	E	6720mm (22' 1")	6930mm (22' 9")	6510mm (21' 4")
Min swing radius	F	4420mm (14' 6")	4400mm (14' 5")	4340mm (14' 3")
Bucket digging force		174 [190] kN	174 [190] kN	155 [170] kN
		17700 [19360] kgf	17700 [19360] kgf	15800 [17280] kgf
		39020 [42680] lbf	39020 [42680] lbf	34830 [38100] lbf
Arm digging force		177 [193] kN	157 [172] kN	156 [171] kN
		18000 [19690] kgf	16000 [17500] kgf	15900 [17390] kgf
		39680 [43410] lbf	35270 [38580] lbf	35050 [38340] lbf

[] : Power boost

4. WEIGHT

1) R320-3, R320LC-3

Item	R320-3		R320LC-3	
	kg	lb	kg	lb
Upperstructure assembly	12750	28110	←	
Main frame weld assembly	2720	6000	←	
Engine assembly	610	1340	←	
Main pump assembly	190	420	←	
Main control valve assembly	130	290	←	
Swing motor assembly	320	710	←	
Hydraulic oil tank assembly	280	620	←	
Fuel tank assembly	160	350	←	
Counterweight	5800	12790	←	
Cab assembly	275	610	←	
Lower chassis assembly	11110	24490	12160	26810
Track frame weld assembly	4050	8930	4570	10080
Swing bearing	410	900	←	
Travel motor assembly	410	900	←	
Turning joint	50	110	←	
Track recoil spring and idler	315	690	←	
Idler	205	450	←	
Carrier roller	35	80	←	
Track roller	50	110	←	
Track-chain assembly (600mm standard triple grouser shoe)	1790	3950	1900	4190
Front attachment assembly (6.45m boom, 3.20m arm, 1.44m ³ PCSA heaped bucket)	6290	13870	←	
6.45m boom assembly	2935	6470	←	
3.20m arm assembly	1710	3770	←	
1.44m ³ PCSA heaped bucket	1055	2330	←	
Boom cylinder assembly	590	1300	←	
Arm cylinder assembly	425	940	←	
Bucket cylinder assembly	270	600	←	
Bucket control link assembly	390	860	←	

2) ROBEX 320NLC-3

Item	R320NLC-3	
	kg	lb
Upperstructure assembly	12750	28110
Main frame weld assembly	2720	6000
Engine assembly	610	1340
Main pump assembly	190	420
Main control valve assembly	130	290
Swing motor assembly	320	710
Hydraulic oil tank assembly	280	620
Fuel tank assembly	160	350
Counterweight	5800	12790
Cab assembly	275	610
Lower chassis assembly	11960	26370
Track frame weld assembly	4400	9700
Swing bearing	410	900
Travel motor assembly	410	900
Turning joint	50	110
Track recoil spring and idler	315	700
Idler	205	450
Carrier roller	35	80
Track roller	50	110
Track-chain assembly (600mm standard triple grouser shoe)	1900	4190
Front attachment assembly (6.45m boom, 3.20m arm, 1.44m ³ PCSA heaped bucket)	6290	13870
6.45m boom assembly	2935	6470
3.20m arm assembly	1710	3770
1.44m ³ PCSA heaped bucket	1055	2330
Boom cylinder assembly	590	1300
Arm cylinder assembly	425	940
Bucket cylinder assembly	270	600
Bucket control link assembly	390	860











5. LIFTING CAPACITIES

1) ROBEX 320-3

(1) 6.15m(20' 2") boom, 2.2m(7' 3") arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.











·  : 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									*5230 *11530	4680 10320	8.02 (26.3)
6.0m (20ft)	kg lb					*6200 *13670	*6200 *13670			*5280 *11640	3720 8200	8.91 (29.2)
4.5m (15ft)	kg lb			*9040 *19930	*9040 *19930	*7100 *15650	*7100 *15650	*6210 *13690	4390 10870	4920 10850	3240 7140	9.43 (30.9)
3.0m (10ft)	kg lb			*11640 *25660	10630 23440	*8280 *18250	6810 15010	*6760 *14900	4700 10360	4640 10230	3010 6640	9.65 (31.7)
1.5m (5ft)	kg lb			*13440 *29630	9870 21760	*9320 *20550	6400 14110	6860 15120	4490 9900	4630 10210	2990 6590	9.58 (31.4)
Ground Line	kg lb			*13940 *30730	9620 21210	9560 21080	6150 13560	6700 14770	4350 9590	4900 10800	3170 6990	9.23 (30.3)
-1.5m (-5ft)	kg lb	*15520 *34220	*15520 *34220	*13530 *29830	9630 21230	9490 20920	6090 13430	6670 14700	4320 9520	5590 12320	3650 8050	8.56 (28.1)
-3.0m (-10ft)	kg lb	*16880 *37210	*16880 *37210	*12260 *27030	9820 21650	*9040 *19930	6190 13650			*5750 *12680	4740 10450	7.44 (24.4)
-4.5m (-15ft)	kg lb			*9500 *20940	*9500 *20940							

- 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) 6.15m(20' 2") boom, 2.5m(8' 2")-A arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4960 *10930	4460 9830	8.30 (27.2)
6.0m (20ft)	kg lb							*5580 *12300	5180 11420	*5040 *11110	3590 7910	9.16 (30.1)
4.5m (15ft)	kg lb					*6770 *14930	*6770 *14930	*5960 *13140	5020 11070	4760 10490	3130 6900	9.66 (31.7)
3.0m (10ft)	kg lb			*11070 *24410	10900 24030	*8000 *17640	6930 15280	*6560 *14460	4780 10540	4490 9900	2910 6420	9.87 (32.4)
1.5m (5ft)	kg lb			*13110 *28900	10050 22160	*9130 *20130	6490 14310	6920 15260	4550 10030	4470 9850	2880 6350	9.81 (32.2)
Ground Line	kg lb			*13920 *30690	9680 21340	9620 21210	6210 13690	6740 14860	4380 9660	4710 10380	3040 6700	9.47 (31.1)
-1.5m (-5ft)	kg lb	*15340 *33820	*15340 *33820	*13750 *30310	9630 21230	9500 20940	6100 13450	6670 14700	4320 9520	5320 11730	3470 7650	8.81 (28.9)
-3.0m (-10ft)	kg lb	*18010 *39710	*18010 *39710	*12720 *28040	9770 21540	*9350 *20610	6160 13580			*5850 *12900	4410 9720	7.74 (25.4)
-4.5m (-15ft)	kg lb	*14410 *31770	*14410 *31770	*10390 *22910	10140 22350							

(3) 6.15m(20' 2") boom, 2.5m(8' 2")-B arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4770 *10520	4320 9520	8.42 (27.6)
6.0m (20ft)	kg lb							*5490 *12100	5090 11220	*4860 *10710	3460 7630	9.29 (30.5)
4.5m (15ft)	kg lb					*6670 *14700	*6670 *14700	*5860 *12920	4930 10870	4610 10160	3010 6640	9.79 (32.1)
3.0m (10ft)	kg lb			*10960 *24160	10800 23810	*7890 *17390	6840 15080	*6460 *14240	4690 10340	4340 9570	2790 6150	10.01 (32.8)
1.5m (5ft)	kg lb			*12990 *28640	9930 21890	*9020 *19890	6390 14090	6830 15060	4460 9830	4320 9520	2760 6080	9.95 (32.6)
Ground Line	kg lb			*13800 *30420	9570 21100	9520 20990	6110 13470	6650 14660	4290 9460	4540 10010	2910 6420	9.61 (31.5)
-1.5m (-5ft)	kg lb	*15640 *34480	*15640 *34480	*13630 *30050	9520 20990	9400 20720	6000 13230	6580 14510	4230 9330	5130 11310	3320 7320	8.96 (29.4)
-3.0m (-10ft)	kg lb	*17860 *39370	*17860 *39370	*12590 *27760	9660 21300	*9240 *20370	6070 13380			*5670 *12500	4230 9330	7.89 (25.9)
-4.5m (-15ft)	kg lb	*14250 *31420	*14250 *31420	*10260 *22620	10030 22110							

(4) 6.45m(21' 2") boom, 2.2m(7' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*5120 *11290	4330 9550	8.42 (27.6)
6.0m (20ft)	kg lb					*6180 *13620	*6180 *13620	*5740 *12650	5150 11350	*5160 *11380	3510 7740	9.27 (30.4)
4.5m (15ft)	kg lb			*9350 *20610	*9350 *20610	*7160 *15790	*7160 *15790	*6140 *13540	4970 10960	4680 10320	3080 6790	9.76 (32.0)
3.0m (10ft)	kg lb					*8350 *18410	6760 14900	*6730 *14840	4730 10430	4430 9770	2880 6350	9.97 (32.7)
1.5m (5ft)	kg lb					*9360 *20640	6340 13980	6860 15120	4500 9920	4420 9740	2860 6310	9.91 (32.5)
Ground Line	kg lb			*13870 *30580	9510 20970	9500 20940	6110 13470	6700 14770	4350 9590	4660 10270	3020 6660	9.57 (31.4)
-1.5m (-5ft)	kg lb	*12840 *28310	*12840 *28310	*13400 *29540	9550 21050	9440 20810	6050 13340	6660 14680	4310 9500	5250 11570	3440 7580	8.93 (29.3)
-3.0m (-10ft)	kg lb	*16470 *36310	*16470 *36310	*12220 *26940	9740 21470	*9160 *20190	6150 13560			*5540 *12210	4350 9590	7.88 (25.9)
-4.5m (-15ft)	kg lb	*13130 *28950	*13130 *28950	*9880 *21780	*9880 *21780							

(5) 6.45m(21' 2") boom, 2.5m(8' 2")-A arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
														m(ft)
7.5m (25ft)	kg lb											*4860 *10710	4130 9110	8.70 (28.5)
6.0m (20ft)	kg lb							*5480 *12080	5230 11530			*4920 *10850	3370 7430	9.52 (31.2)
4.5m (15ft)	kg lb			*8800 *19400	*8800 *19400	*6860 *15120	*6860 *15120	*5920 *13050	5030 11090			4520 9960	2970 6550	10.00 (32.8)
3.0m (10ft)	kg lb			*11440 *25220	10600 23370	*8090 *17840	6840 15080	*6550 *14440	4770 10520	5240 11550	3440 7580	4280 9440	2780 6130	10.20 (33.5)
1.5m (5ft)	kg lb			*13290 *29300	9790 21580	*9170 *20220	6390 14090	6890 15190	4520 9960	5120 11290	3320 7320	4260 9390	2750 6060	10.14 (33.3)
Ground Line	kg lb			*13860 *30560	9510 20970	9520 20990	6120 13490	6700 14770	4350 9590			4470 9850	2880 6350	9.81 (32.2)
-1.5m (-5ft)	kg lb	*13340 *29410	*13340 *29410	*13570 *29920	9500 20940	9420 20770	6030 13290	6630 14620	4290 9460			4990 11000	3250 7170	9.19 (30.2)
-3.0m (-10ft)	kg lb	*17420 *38400	*17420 *38400	*12560 *27690	9660 21300	*9350 *20610	6100 13450					*5580 *12300	4040 8910	8.18 (26.8)
-4.5m (-15ft)	kg lb	*14260 *31440	*14260 *31440	*10500 *23150	10000 22050	*7670 *16910	6370 14040							
















(6) 6.45m(21' 2") boom, 2.5m(8' 2")-B arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach				
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach		
														m(ft)		
7.5m (25ft)	kg lb													*4870 *10740	4080 8990	8.76 (28.7)
6.0m (20ft)	kg lb							*5430 *11970	5310 11710					*4940 *10890	3360 7410	9.55 (31.3)
4.5m (15ft)	kg lb			*8650 *19070	*8650 *19070	*6800 *14990	*6800 *14990	*5890 *12990	5110 11270					4520 9960	2970 6550	10.01 (32.8)
3.0m (10ft)	kg lb			*11280 *24870	10740 23680	*8040 *17730	6930 15280	*6530 *14400	4840 10670	5300 11680	3490 7690			4290 9460	2790 6150	10.19 (33.4)
1.5m (5ft)	kg lb			*13210 *29120	9880 21730	*9150 *20170	6470 14260	6950 15320	4590 10120	5170 11400	3370 7430			4290 9460	2770 6110	10.11 (33.2)
Ground Line	kg lb			*13880 *30600	9560 21080	9580 21120	6180 13620	6760 14900	4410 9720					4520 9960	2920 6440	9.77 (32.1)
-1.5m (-5ft)	kg lb	*12780 *28180	*12780 *28180	*13670 *30140	9530 21010	9460 20860	6070 13380	6680 14730	4330 9550					5070 11180	3310 7300	9.12 (29.9)
-3.0m (-10ft)	kg lb	*17800 *39240	*17800 *39240	*12730 *28060	9680 21340	*9470 *20880	6130 13510	6750 14880	4400 9700					*5610 *12370	4150 9150	8.07 (26.5)
-4.5m (-15ft)	kg lb	*14730 *32470	*14730 *32470	*10780 *23770	10010 22070	*9720 *17460	6380 14070									

(7) 6.45m(21' 2") boom, 3.2m(10' 6") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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)		
7.5m (25ft)	kg lb									*4660 *10270	*4660 *10270					*4280 *9440	3600 7940	9.39 (30.8)
6.0m (20ft)	kg lb									*4820 *10630	*4820 *10630					*4370 *9630	2990 6590	10.14 (33.3)
4.5m (15ft)	kg lb							*6050 *13340	*6050 *13340	*5330 *11750	5100 11240	*4970 *10960	3590 7910	4080 8990	2650 5840	10.59 (34.7)		
3.0m (10ft)	kg lb					*10080 *22220	*10080 *22220	*7330 *16160	6960 15340	*6020 *13270	4800 10580	52580 11570	3450 7610	3860 8510	2470 5450	10.78 (35.4)		
1.5m (5ft)	kg lb					*12340 *27210	9960 21960	*8560 *18870	6440 14200	*6710 *14790	4510 9940	5090 11220	3290 7250	3830 8440	2430 5360	10.72 (35.2)		
Ground Line	kg lb			*9160 *20190	*9160 *20190	*13480 *29720	9460 20860	*9430 *20790	6080 13400	6650 14660	4290 9460	4960 10930	3170 6990	3980 8770	2520 5560	10.42 (34.2)		
-1.5m (-5ft)	kg lb	*10240 *22580	*10240 *22580	*13050 *28770	*13050 *28770	*13650 *30090	9310 20530	9290 20480	5910 13030	6520 14370	4170 9190			4380 9660	2800 6170	9.84 (32.3)		
-3.0m (-10ft)	kg lb	*13900 *30640	*13900 *30640	*17650 *38910	*17650 *38910	*13040 *28750	9380 20680	9280 20460	5900 13010	6520 14370	4180 9220			5200 11460	3370 7430	8.92 (29.3)		
-4.5m (-15ft)	kg lb			*16370 *36090	*16370 *36090	*11530 *25420	9630 21230	*8490 *18720	6060 13360					*5220 *11510	4650 10250	7.50 (24.6)		
-6.0m (-20ft)	kg lb					*8370 *18450	*8370 *18450											

(8) 6.45m(21' 2") boom, 4.05m(13' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.











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)
7.5m (25ft)	kg lb														*3680 *8110	2980 6570	10.31 (33.8)
6.0m (20ft)	kg lb											*4020 *8860	3790 8360	*3790 *8360	2510 5530	10.99 (36.1)	
4.5m (15ft)	kg lb									*4540 *10010	*4540 *10010	*4290 *9460	3660 8070	3530 7780	2230 4920	11.40 (37.4)	
3.0m (10ft)	kg lb			*13520 *29810	*13520 *29810	*8310 *18320	*8310 *18320	*6310 *13910	*6310 *13910	*5290 *11660	4890 10780	*4710 *10380	3470 7650	3350 7390	2080 4590	11.57 (38.0)	
1.5m (5ft)	kg lb			*19530 *21010	*9530 *21010	*10940 *24120	10360 22840	*7710 *17000	6590 14530	*6100 *13450	4560 10050	5080 11200	3280 7230	3310 7300	2040 4500	11.52 (37.8)	
Ground Line	kg lb			*9770 *21540	*9770 *21540	*12700 *28000	9580 21120	*8820 *19440	6120 13490	6640 14640	4280 9440	4910 10820	3120 6880	3420 7540	2100 4630	11.24 (36.9)	
-1.5m (-5ft)	kg lb	*8850 *19510	*8850 *19510	*12110 *26700	*12110 *26700	*13460 *29670	9230 20350	9240 20370	5840 12870	6440 14200	4090 9020	4790 10560	3010 6640	3700 8160	2300 5070	10.71 (35.1)	
-3.0m (-10ft)	kg lb	*11770 *25950	*11770 *25950	*15400 *33950	*15400 *33950	*13370 *29480	9160 20190	9120 20110	5740 12650	6360 14020	4020 8860	4780 10540	2990 6590	4270 9410	2700 5950	9.89 (32.4)	
-4.5m (-15ft)	kg lb	*15150 *33400	*15150 *33400	*18510 *40810	*18510 *40810	*12450 *27450	9300 20500	*9070 *20000	5800 12790	6430 14180	4080 8990			*4940 *10890	3500 7720	8.67 (28.4)	
-6.0m (-20ft)	kg lb			*15020 *33110	*15020 *33110	*10380 *22880	9650 21270	*7470 *16470	6060 13360								

2) ROBEX 320LC-3

(1) 6.15m(20' 2") boom, 2.2m(7' 3") arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.











·  : 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									*5230 *11530	5020 11070	8.02 (26.3)
6.0m (20ft)	kg lb					*6200 *13670	*6200 *13670			*5280 *11640	4020 8860	8.91 (29.2)
4.5m (15ft)	kg lb			*9040 *19930	*9040 *19930	*7100 *15650	*7100 *15650	*6210 *13690	5300 11680	*5390 *11880	3510 7740	9.43 (30.9)
3.0m (10ft)	kg lb			*11640 *25660	11430 25200	*8280 *18250	7320 16140	*6760 *14900	5070 11180	5410 11930	3270 7210	9.65 (31.7)
1.5m (5ft)	kg lb			*13440 *29630	10670 23520	*9320 *20550	6900 15210	*7310 *16120	4860 10710	5410 11930	3250 7170	9.58 (31.4)
Ground Line	kg lb			*13940 *30730	10410 22950	*9910 *21850	6650 14660	*7640 *16840	4710 10380	5720 12610	3450 7610	9.23 (30.3)
-1.5m (-5ft)	kg lb	*15520 *34220	*15520 *34220	*13530 *29830	10420 22970	*9890 *21800	6590 14530	*7510 *16560	4680 10320	*5960 *13140	3960 8730	8.56 (28.1)
-3.0m (-10ft)	kg lb	*16880 *37210	*16880 *37210	*12260 *27030	10610 23390	*9040 *19930	6700 14770			*5750 *12680	5110 11270	7.44 (24.4)
-4.5m (-15ft)	kg lb			*9500 *20940	*9500 *20940							

- 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) 6.15m(20' 2") boom, 2.5m(8' 2")-A arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4960 *10930	4790 10560	8.30 (27.2)
6.0m (20ft)	kg lb							*5580 *12300	5550 12240	*5040 *11110	3870 8530	9.16 (30.1)
4.5m (15ft)	kg lb					*6770 *14930	*6770 *14930	*5960 *13140	5390 11880	*5180 *11420	3390 7470	9.66 (31.7)
3.0m (10ft)	kg lb			*11070 *24410	*11070 *24410	*8000 *17640	7440 16400	*6560 *14460	5150 11350	5240 11550	3170 6990	9.87 (32.4)
1.5m (5ft)	kg lb			*13110 *28900	10840 23900	*9130 *20130	6990 15410	*7180 *15830	4910 10820	5220 11510	3140 6920	9.81 (32.2)
Ground Line	kg lb			*13920 *30690	10480 23100	*9840 *21690	6710 14790	*7590 *16730	4750 10470	5500 12130	3310 7300	9.47 (31.1)
-1.5m (-5ft)	kg lb	*15340 *33820	*15340 *33820	*13750 *30310	10420 22970	*9970 *21980	6600 14550	*7610 *16780	4680 10320	*5900 *13010	3760 8290	8.81 (28.9)
-3.0m (-10ft)	kg lb	*18010 *39710	*18010 *39710	*12720 *28040	10570 23300	*9350 *20610	6670 14700			*5850 *12900	4760 10490	7.74 (25.4)
-4.5m (-15ft)	kg lb	*14410 *31770	*14410 *31770	*10390 *22910	*10390 *22910							













(3) 6.15m(20' 2") boom, 2.5m(8' 2")-B arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4770 *10520	4640 10230	8.42 (27.6)
6.0m (20ft)	kg lb							*5490 *12100	5460 12040	*4860 *10710	3740 8250	9.29 (30.5)
4.5m (15ft)	kg lb					*6670 *14700	*6670 *14700	*5860 *12920	5300 11680	*5000 *11020	3270 7210	9.79 (32.1)
3.0m (10ft)	kg lb			*10960 *24160	*10960 *24160	*7890 *17390	7350 16200	*6460 *14240	5060 11160	5080 11200	3040 6700	10.01 (32.8)
1.5m (5ft)	kg lb			*12990 *28640	10730 23660	*9020 *19890	6900 15210	*7070 *15590	4820 10630	5050 11130	3010 6640	9.95 (32.6)
Ground Line	kg lb			*13800 *30420	10360 22840	*9730 *21450	6610 14570	*7490 *16510	4650 10250	5320 11730	3170 6990	9.61 (31.5)
-1.5m (-5ft)	kg lb	*15640 *34480	*15640 *34480	*13630 *30050	10310 22730	*9850 *21720	6500 14330	*7510 *16560	4590 10120	*5720 *12610	3610 7960	8.96 (29.4)
-3.0m (-10ft)	kg lb	*17860 *39370	*17860 *39370	*12590 *27760	10460 23060	*9240 *20370	6570 14480			*5670 *12500	4570 10080	7.89 (25.9)
-4.5m (-15ft)	kg lb	*14250 *31420	*14250 *31420	*10260 *22620	*10260 *22620							













(4) 6.45m(21' 2") boom, 2.2m(7' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*5120 *11290	4650 10250	8.42 (27.6)
6.0m (20ft)	kg lb					*6180 *13620	*6180 *13620	*5740 *12650	5520 12170	*5160 *11380	3790 8360	9.27 (30.4)
4.5m (15ft)	kg lb			*9350 *20610	*9350 *20610	*7160 *15790	*7160 *15790	*6140 *13540	5340 11770	*5250 *11570	3340 7360	9.76 (32.0)
3.0m (10ft)	kg lb					*8350 *18410	7270 16030	*6730 *14840	5090 11220	5170 11400	3130 6900	9.97 (32.7)
1.5m (5ft)	kg lb					*9360 *20640	6850 15100	*7290 *16070	4860 10710	5160 11380	3110 6860	9.91 (32.5)
Ground Line	kg lb			*13870 *30580	10300 22710	*9910 *21850	6610 14570	*7630 *16820	4710 10380	5440 11990	3280 7230	9.57 (31.4)
-1.5m (-5ft)	kg lb	*12840 *28310	*12840 *28310	*13400 *29540	10340 22800	*9880 *21780	6550 14440	*7580 *16710	4670 10300	*5720 *12610	3730 8220	8.93 (29.3)
-3.0m (-10ft)	kg lb	*16470 *36310	*16470 *36310	*12220 *26940	10540 23240	*9160 *20190	6650 14660			*5540 *12210	4690 10340	7.88 (25.9)
-4.5m (-15ft)	kg lb	*13130 *28950	*13130 *28950	*9880 *21780	*9880 *21780							















(5) 6.45m(21' 2") boom, 2.5m(8' 2")-A arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
														m(ft)
7.5m (25ft)	kg lb											*4880 *10760	4440 9790	8.70 (28.5)
6.0m (20ft)	kg lb							*5500 *12130	*5500 *12130			*4940 *10890	3660 8070	9.52 (31.2)
4.5m (15ft)	kg lb			*8830 *19470	*8830 *19470	*6880 *15170	*6880 *15170	*5940 *13100	5420 11950			*5050 *11130	3230 7120	10.00 (32.8)
3.0m (10ft)	kg lb			*11470 *25290	11430 25200	*8110 *17880	7370 16250	*6570 *14480	5160 11380	*5770 *12720	3740 8250	5010 11050	3030 6680	10.20 (33.5)
1.5m (5ft)	kg lb			*13330 *29390	10610 23390	*9200 *20280	6920 15260	*7180 *15830	4910 10820	5990 13210	3630 8000	4990 11000	3010 6640	10.14 (33.3)
Ground Line	kg lb			*13890 *30620	10330 22770	*9850 *21720	6650 14660	*7590 *16730	4740 10450			5230 11530	3160 6970	9.81 (32.2)
-1.5m (-5ft)	kg lb	*13330 *29390	*13330 *29390	*13610 *30000	10320 22750	*9940 *21910	6550 14440	*7640 *16840	4670 10300			*5650 *12460	3550 7830	9.19 (30.2)
-3.0m (-10ft)	kg lb	*17470 *38510	*17470 *38510	*12600 *27780	10480 23100	*9380 *20680	6620 14590					*5600 *12350	4380 9660	8.18 (26.8)
-4.5m (-15ft)	kg lb	*14300 *31530	*14300 *31530	*10530 *23210	*10530 *23210	*7690 *16950	6890 15190							
















(6) 6.45m(21' 2") boom, 2.5m(8' 2")-B arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach				
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach		
														m(ft)		
7.5m (25ft)	kg lb													*4860 *10710	4450 9810	8.69 (28.5)
6.0m (20ft)	kg lb							*5480 *12080	*5480 *12080					*4920 *10850	3650 8050	9.51 (31.2)
4.5m (15ft)	kg lb			*8800 *19400	*8800 *19400	*6860 *15120	*6860 *15120	*5920 *13050	5400 11900					*5040 *11110	3230 7120	9.99 (32.8)
3.0m (10ft)	kg lb			*11440 *25220	11400 25130	*8090 *17840	7350 16200	*6550 *14440	5140 11330					5000 11020	3030 6680	10.19 (33.4)
1.5m (5ft)	kg lb			*13290 *29300	10580 23320	*9170 *20220	6900 15210	*7160 *15790	4890 10780	5970 13160	3610 7960			4990 11000	3000 6610	10.13 (33.2)
Ground Line	kg lb			*13860 *30560	10300 22710	*9820 *21650	6620 14590	*7570 *16690	4720 10410					5230 11530	3150 6940	9.80 (32.2)
-1.5m (-5ft)	kg lb	*13370 *29480	*13370 *29480	*13570 *29920	10290 22690	*9910 *21850	6530 14400	*7620 *16800	4650 10250					*5650 *12460	3540 7800	9.18 (30.1)
-3.0m (-10ft)	kg lb	*17420 *38400	*17420 *38400	*12560 *27690	10450 23040	*9350 *20610	6600 14550							*5610 *12370	4380 9660	8.16 (26.8)
-4.5m (-15ft)	kg lb	*14250 *31420	*14250 *31420	*10500 *23150	*10500 *23150	*7670 *16910	6870 15150									

(7) 6.45m(21' 2") boom, 3.2m(10' 6") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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)		
7.5m (25ft)	kg lb									*4660 *10270	*4660 *10270					*4280 *9440	3880 8550	9.39 (30.8)
6.0m (20ft)	kg lb									*4820 *10630	*4820 *10630					*4370 *9630	3240 7140	10.14 (33.3)
4.5m (15ft)	kg lb							*6050 *13340	*6050 *13340	*5330 *11750	*5330 *11750	*4970 *10960	3880 8550	*4510 *9940	2880 6350	10.59 (34.7)		
3.0m (10ft)	kg lb					*10080 *22220	*10080 *22220	*7330 *16160	*7330 *16160	*6020 *13270	5170 11400	*5300 *11680	3730 8220	4520 9960	2700 5950	10.78 (35.4)		
1.5m (5ft)	kg lb					*12340 *27210	9960 21960	*8560 *18870	6940 15300	*6710 *14790	4880 10760	*5670 *12500	3580 7890	4490 9900	2660 5860	10.72 (35.2)		
Ground Line	kg lb			*9160 *20190	*9160 *20190	*13480 *29720	10250 22600	*9430 *20790	6580 14510	*7260 *16010	4660 10270	5810 12810	3460 7630	4670 10300	2760 6080	10.42 (34.2)		
-1.5m (-5ft)	kg lb	*10240 *22580	*10240 *22580	*13050 *28770	*13050 *28770	*13650 *30090	10100 22270	*9780 *21560	6410 14130	*7500 *16530	4540 10010			5130 11310	3050 6720	9.84 (32.3)		
-3.0m (-10ft)	kg lb	*13900 *30640	*13900 *30640	*17650 *38910	*17650 *38910	*13040 *28750	10170 22420	*9550 *21050	6400 14110	*7280 *16050	4540 10010			*5360 *11820	3660 8070	8.92 (29.3)		
-4.5m (-15ft)	kg lb			*16370 *36090	*16370 *36090	*11530 *25420	10430 22990	*8490 *18720	6560 14460					*5220 *11510	5020 11070	7.50 (24.6)		
-6.0m (-20ft)	kg lb					*8370 *18450	*8370 *18450											

(8) 6.45m(21' 2") boom, 4.05m(13' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.











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)
7.5m (25ft)	kg lb														*3680 *8110	3220 7100	10.31 (33.8)
6.0m (20ft)	kg lb											*4020 *8860	*4020 *8860	*3790 *8360	2740 6040	10.99 (36.1)	
4.5m (15ft)	kg lb									*4540 *10010	*4540 *10010	*4290 *9460	3950 8710	*3920 *8640	2450 5400	11.40 (37.4)	
3.0m (10ft)	kg lb			*13520 *29810	*13520 *29810	*8310 *18320	*8310 *18320	*6310 *13910	*6310 *13910	*5290 *11660	5260 11600	*4710 *10380	3760 8290	3950 8710	2290 5050	11.57 (38.0)	
1.5m (5ft)	kg lb			*19530 *21010	*9530 *21010	*10940 *24120	*10940 *24120	*7710 *17000	7090 15630	*6100 *13450	4920 10850	*5180 *11420	3570 7870	3920 8640	2250 4960	11.52 (37.8)	
Ground Line	kg lb			*9770 *21540	*9770 *21540	*12700 *28000	10370 22860	*8820 *19440	6620 14590	*6790 *14970	4640 10230	*5590 *12320	3400 7500	4040 8910	2320 5110	11.24 (36.9)	
-1.5m (-5ft)	kg lb	*8850 *19510	*8850 *19510	*12110 *26700	*12110 *26700	*13460 *29670	10020 22090	*9480 *20900	6340 13980	*7240 *15960	4460 9830	5650 12460	3290 7250	4370 9630	2530 5580	10.71 (35.1)	
-3.0m (-10ft)	kg lb	*11770 *25950	*11770 *25950	*15400 *33950	*15400 *33950	*13370 *29480	9950 21940	*9600 *21160	6240 13760	*7320 *16140	4380 9660	5630 12410	3280 7230	*4850 *10690	2950 6500	9.89 (32.4)	
-4.5m (-15ft)	kg lb	*15150 *33400	*15150 *33400	*18510 *40810	*18510 *40810	*12450 *27450	10090 22240	*9070 *20000	6300 13890	*6820 *15040	4440 9790			*4940 *10890	3800 8380	8.67 (28.4)	
-6.0m (-20ft)	kg lb			*15020 *33110	*15020 *33110	*10380 *22880	*10380 *22880	*7470 *16470	6560 14460								

3) ROBEX 320NLC-3

(1) 6.15m(20' 2") boom, 2.2m(7' 3") arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.











·  : 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									*5230 *11530	4380 9660	8.02 (26.3)
6.0m (20ft)	kg lb					*6200 *13670	*6200 *13670			*5280 *11640	3470 7650	8.91 (29.2)
4.5m (15ft)	kg lb			*9040 *19930	*9040 *19930	*7100 *15650	6800 14990	*6210 *13690	4590 10120	*5390 *11880	3000 6610	9.43 (30.9)
3.0m (10ft)	kg lb			*11640 *25660	9800 21610	*8280 *18250	6330 13960	*6760 *14900	4380 9660	5370 11840	2790 6150	9.65 (31.7)
1.5m (5ft)	kg lb			*13440 *29630	9070 20000	*9320 *20550	5920 13050	*7310 *16120	4160 9170	5360 11820	2760 6080	9.58 (31.4)
Ground Line	kg lb			*13940 *30730	8820 19440	*9910 *21850	5690 12540	*7640 *16840	4020 8860	5680 12520	2930 6460	9.23 (30.3)
-1.5m (-5ft)	kg lb	*15520 *34220	*15520 *34220	*13530 *29830	8830 19470	*9890 *21800	5620 12390	*7510 *16560	4000 8820	*5960 *13140	3390 7470	8.56 (28.1)
-3.0m (-10ft)	kg lb	*16880 *37210	*16880 *37210	*12260 *27030	9010 19860	*9040 *19930	5730 12630			*5750 *12680	4410 9720	7.44 (24.4)
-4.5m (-15ft)	kg lb			*9500 *20940	9430 20790							

- 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) 6.15m(20' 2") boom, 2.5m(8' 2")-A arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4960 *10930	4180 9220	8.30 (27.2)
6.0m (20ft)	kg lb							*5580 *12300	4840 10670	*5040 *11110	3340 7360	9.16 (30.1)
4.5m (15ft)	kg lb					*6770 *14930	*6770 *14930	*5960 *13140	4680 10320	*5180 *11420	2910 6420	9.66 (31.7)
3.0m (10ft)	kg lb			*11070 *24410	10060 22180	*8000 *17640	6450 14220	*6560 *14460	4450 9810	5200 11460	2700 5950	9.87 (32.4)
1.5m (5ft)	kg lb			*13110 *28900	9230 20350	*9130 *20130	6020 13270	*7180 *15830	4220 9300	5180 11420	2670 5890	9.81 (32.2)
Ground Line	kg lb			*13920 *30690	8880 19580	*9840 *21690	5740 12650	*7590 *16730	4060 8950	5460 12040	2810 6190	9.47 (31.1)
-1.5m (-5ft)	kg lb	*15340 *33820	*15340 *33820	*13750 *30310	8830 19470	*9970 *21980	5640 12430	*7610 *16780	4000 8820	*5900 *13010	3210 7080	8.81 (28.9)
-3.0m (-10ft)	kg lb	*18010 *39710	*18010 *39710	*12720 *28040	8970 19780	*9350 *20610	5700 12570			*5850 *12900	4100 9040	7.74 (25.4)
-4.5m (-15ft)	kg lb	*14410 *31770	*14410 *31770	*10390 *22910	9320 20550							

(3) 6.15m(20' 2") boom, 2.5m(8' 2")-B arm equipped with 2.1m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*4770 *10520	4040 8910	8.42 (27.6)
6.0m (20ft)	kg lb							*5490 *12100	4760 10490	*4860 *10710	3220 7100	9.29 (30.5)
4.5m (15ft)	kg lb					*6670 *14700	*6670 *14700	*5860 *12920	4600 10140	*5000 *11020	2790 6150	9.79 (32.1)
3.0m (10ft)	kg lb			*10960 *24160	9960 21960	*7890 *17390	6360 14020	*6460 *14240	4360 9610	5030 11090	2580 5690	10.01 (32.8)
1.5m (5ft)	kg lb			*12990 *23640	9120 20110	*9020 *19890	5920 13050	*7070 *15590	4130 9110	5010 11050	2540 5600	9.95 (32.6)
Ground Line	kg lb			*13800 *30420	8770 19330	*9730 *21450	5640 12430	*7490 *16510	3970 8750	5280 11640	2680 5910	9.61 (31.5)
-1.5m (-5ft)	kg lb	*15640 *34480	*15640 *34480	*13630 *30050	8720 19220	*9850 *21720	5540 12210	*7510 *16560	3910 8620	*5720 *12610	3070 6770	8.96 (29.4)
-3.0m (-10ft)	kg lb	*17860 *39370	*17860 *39370	*12590 *27760	8860 19530	*9240 *20370	5600 12350			*5670 *12500	3920 8640	7.89 (25.9)
-4.5m (-15ft)	kg lb	*14250 *31420	*14250 *31420	*10260 *22620	9220 20330							













(4) 6.45m(21' 2") boom, 2.2m(7' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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									*5120 *11290	4050 8930	8.42 (27.6)
6.0m (20ft)	kg lb					*6180 *13620	*6180 *13620	*5740 *12650	4820 10630	*5160 *11380	3270 7210	9.27 (30.4)
4.5m (15ft)	kg lb			*9350 *20610	*9350 *20610	*7160 *15790	6790 14970	*6140 *13540	4640 10230	*5250 *11570	2860 6310	9.76 (32.0)
3.0m (10ft)	kg lb					*8350 *18410	6280 13850	*6730 *14840	4400 9700	5130 11310	2670 5890	9.97 (32.7)
1.5m (5ft)	kg lb					*9360 *20640	5880 12960	*7290 *16070	4170 9190	5120 11290	2640 5820	9.91 (32.5)
Ground Line	kg lb			*13870 *30580	8720 19220	*9910 *21850	5650 12460	*7630 *16820	4030 8880	5400 11900	2790 6150	9.57 (31.4)
-1.5m (-5ft)	kg lb	*12840 *28310	*12840 *28310	*13400 *29540	8760 19310	*9880 *21780	5590 12320	*7580 *16710	3990 8800	*5720 *12610	3190 7030	8.93 (29.3)
-3.0m (-10ft)	kg lb	*16470 *36310	*16470 *36310	*12220 *26940	8950 19730	*9160 *20190	5690 12540			*5540 *12210	4040 8910	7.88 (25.9)
-4.5m (-15ft)	kg lb	*13130 *28950	*13130 *28950	*9880 *21780	9320 20550							















(5) 6.45m(21' 2") boom, 2.5m(8' 2")-A arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach		
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach
														m(ft)
7.5m (25ft)	kg lb											*4880 *10760	3870 8530	8.70 (28.5)
6.0m (20ft)	kg lb							*5500 *12130	4910 10820			*4940 *10890	3160 6970	9.52 (31.2)
4.5m (15ft)	kg lb			*8830 *19470	*8830 *19470	*6880 *15170	*6880 *15170	*5940 *13100	4720 10410			*5050 *11130	2770 6110	10.00 (32.8)
3.0m (10ft)	kg lb			*11470 *25290	9800 21610	*8110 *17880	6380 14070	*6570 *14480	4460 9830	*5770 *12720	3210 7080	4970 10960	2580 5690	10.20 (33.5)
1.5m (5ft)	kg lb			*13330 *29390	9020 19890	*9200 *20280	5950 13120	*7180 *15830	4220 9300	5940 13100	3100 6830	4950 10910	2550 5620	10.14 (33.3)
Ground Line	kg lb			*13890 *30620	8750 19290	*9850 *21720	5680 12520	*7590 *16730	4050 8930			5190 11440	2680 5910	9.81 (32.2)
-1.5m (-5ft)	kg lb	*13330 *29390	*13330 *29390	*13610 *30000	8740 19270	*9940 *21910	5590 12320	*7640 *16840	3990 8800			*5650 *12460	3030 6680	9.19 (30.2)
-3.0m (-10ft)	kg lb	*17470 *38510	*17470 *38510	*12600 *27780	8890 19600	*9380 *20680	5660 12480					*5600 *12350	3770 8310	8.18 (26.8)
-4.5m (-15ft)	kg lb	*14300 *31530	*14300 *31530	*10530 *23210	9220 20330	*7690 *16950	5920 13050							
















(6) 6.45m(21' 2") boom, 2.5m(8' 2")-B arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

Load point height		Load radius										At max. reach					
		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach			
														m(ft)			
7.5m (25ft)	kg lb														*4860 *10710	3880 8550	8.69 (28.5)
6.0m (20ft)	kg lb							*5480 *12080	4900 10800						*4920 *10850	3150 6940	9.51 (31.2)
4.5m (15ft)	kg lb			*8800 *19400	*8800 *19400	*6860 *15120	*6860 *15120	*5920 *13050	4700 10360						*5040 *11110	2770 6110	9.99 (32.8)
3.0m (10ft)	kg lb			*11440 *25220	9770 21540	*8090 *17840	6360 14020	*6550 *14440	4440 9790						4960 10930	2580 5690	10.19 (33.4)
1.5m (5ft)	kg lb			*13290 *29300	8990 19820	*9170 *20220	5920 13050	*7160 *15790	4200 9260	5920 13050	3080 6790				4950 10910	2540 5600	10.13 (33.2)
Ground Line	kg lb			*13860 *30560	8720 19220	*9820 *21650	5660 12480	*7570 *16690	4030 8880						5190 11440	2670 5890	9.80 (32.2)
-1.5m (-5ft)	kg lb	*13370 *29480	*13370 *29480	*13570 *29920	8710 19200	*9910 *21850	5570 12280	*7620 *16800	3970 8750						*5650 *12460	3020 6660	9.18 (30.1)
-3.0m (-10ft)	kg lb	*17420 *38400	*17420 *38400	*12560 *27690	8860 19530	*9350 *20610	5630 12410								*5610 *12370	3770 8310	8.16 (26.8)
-4.5m (-15ft)	kg lb	*14250 *31420	*14250 *31420	*10500 *23150	9200 20280	*7670 *16910	5900 13010										

(7) 6.45m(21' 2") boom, 3.2m(10' 6") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

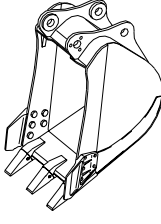
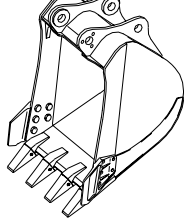
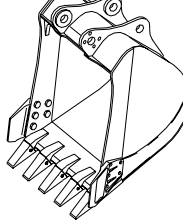
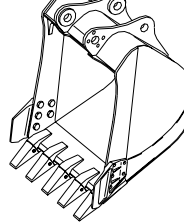
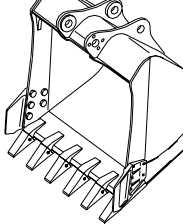
Load point height		Load radius										At max. reach						
		1.5m(5ft)		3.0m(10ft)		4.5m(15ft)		6.0m(20ft)		7.5m(25ft)		9.0m(30ft)		Capacity		Reach		
																m(ft)		
7.5m (25ft)	kg lb									*4660 *10270	*4660 *10270					*4280 *9440	3370 7430	9.39 (30.8)
6.0m (20ft)	kg lb									*4820 *10630	*4820 *10630					*4370 *9630	2780 6130	10.14 (33.3)
4.5m (15ft)	kg lb							*6050 *13340	*6050 *13340	*5330 *11750	4770 10520	*4970 *10960	3340 7360	*4510 *9940	2450 5400	10.59 (34.7)		
3.0m (10ft)	kg lb					*10080 *22220	*10080 *22220	*7330 *16160	6470 14260	*6020 *13270	4470 9850	*5300 *11680	3200 7050	4490 9900	2280 5030	10.78 (35.4)		
1.5m (5ft)	kg lb					*12340 *27210	9150 20170	*8560 *18870	5960 13140	*6710 *14790	4190 9240	*5670 *12500	3050 6720	4460 9830	2240 4940	10.72 (35.2)		
Ground Line	kg lb			*9160 *20190	*9160 *20190	*13480 *29720	8670 19110	*9430 *20790	5610 12370	*7260 *16010	3970 8750	5770 12720	2930 6460	4630 10210	2320 5110	10.42 (34.2)		
-1.5m (-5ft)	kg lb	*10240 *22580	*10240 *22580	*13050 *28770	*13050 *28770	*13650 *30090	8520 18780	*9780 *21560	5450 12020	*7500 *16530	3850 8490				5090 11220	2580 5690	9.84 (32.3)	
-3.0m (-10ft)	kg lb	*13900 *30640	*13900 *30640	*17650 *38910	17600 38800	*13040 *28750	8590 18940	*9550 *21050	5440 11990	*7280 *16050	3860 8510				*5360 *11820	3120 6880	8.92 (29.3)	
-4.5m (-15ft)	kg lb			*16370 *36090	*16370 *36090	*11530 *25420	8830 19470	*8490 *18720	5600 12350						*5220 *11510	4320 9520	7.50 (24.6)	
-6.0m (-20ft)	kg lb					*8370 *18450	*8370 *18450											

(8) 6.45m(21' 2") boom, 4.05m(13' 3") arm equipped with 1.44m³(PCSA heaped) bucket and 600mm (24") triple grouser shoe.

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)
7.5m (25ft)	kg lb														*3680 *8110	2770 6110	10.31 (33.8)
6.0m (20ft)	kg lb											*4020 *8860	3530 7780	*3790 *8360	2320 5110	10.99 (36.1)	
4.5m (15ft)	kg lb									*4540 *10010	*4540 *10010	*4290 *9460	3400 7500	*3920 *8640	2050 4520	11.40 (37.4)	
3.0m (10ft)	kg lb			*13520 *29810	*13520 *29810	*8310 *18320	*8310 *18320	*6310 *13910	*6310 *13910	*5290 *11660	4560 10050	*4710 *10380	3220 7100	3920 8640	1910 4210	11.57 (38.0)	
1.5m (5ft)	kg lb			*19530 *21010	*9530 *21010	*10940 *24120	9530 21010	*7710 *17000	6110 13470	*6100 *13450	4230 9330	*5180 *11420	3030 6680	3880 8550	1870 4120	11.52 (37.8)	
Ground Line	kg lb			*9770 *21540	*9770 *21540	*12700 *28000	8780 19360	*8820 *19440	5650 12460	*6790 *14970	3950 8710	*5590 *12320	2870 6330	4010 8840	1920 4230	11.24 (36.9)	
-1.5m (-5ft)	kg lb	*8850 *19510	*8850 *19510	*12110 *26700	*12110 *26700	*13460 *29670	8440 18610	*9480 *20900	5380 11860	*7240 *15960	3770 8310	5600 12350	2760 6080	4330 9550	2110 4650	10.71 (35.1)	
-3.0m (-10ft)	kg lb	*11770 *25950	*11770 *25950	*15400 *33950	*15400 *33950	*13370 *29480	8370 18450	*9600 *21160	5280 11640	*7320 *16140	3700 8160	5580 12300	2750 6060	*4850 *10690	2480 5470	9.89 (32.4)	
-4.5m (-15ft)	kg lb	*15150 *33400	*15150 *33400	*18510 *40810	17460 38490	*12450 *27450	8500 18740	*9070 *20000	5340 11770	*6820 *15040	3760 8290			*4940 *10890	3240 7140	8.67 (28.4)	
-6.0m (-20ft)	kg lb			*15020 *33110	*15020 *33110	*10380 *22880	8850 19510	*7470 *16470	5590 12320								


6. BUCKET SELECTION GUIDE


1) GUIDE 1


				
0.90m ³ PCSA heaped bucket	1.14m ³ PCSA heaped bucket	1.38m ³ PCSA heaped bucket	※1.44m ³ PCSA heaped bucket	1.74m ³ PCSA heaped bucket

Capacity		Width		Weight	Recommendation					
					6.45m(21' 2") boom				6.15m(20' 2") boom	
PCSA heaped	CECE heaped	Without side cutter	With side cutter		2.2m arm (7' 3")	2.5m arm (8' 2")	3.2m arm (10' 6")	4.05m arm (13' 3")	2.2m arm (6' 7")	2.5m arm (7' 10")
0.90m ³ (1.18yd ³)	0.80m ³ (1.05yd ³)	950mm (37.4")	1070mm (42.1")	835kg (1840lb)						
1.14m ³ (1.49yd ³)	1.00m ³ (1.30yd ³)	1140mm (44.9")	1260mm (49.6")	935kg (2060lb)						
1.38m ³ (1.81yd ³)	1.20m ³ (1.57yd ³)	1330mm (52.4")	1450mm (57.1")	1040kg (2290lb)						
※1.44m ³ (1.89yd ³)	1.25m ³ (1.63yd ³)	1380mm (54.3")	1500mm (59.1")	1055kg (2330lb)						
1.74m ³ (2.28yd ³)	1.50m ³ (1.96yd ³)	1610mm (63.4")	1730mm (68.1")	1145kg (2520lb)						

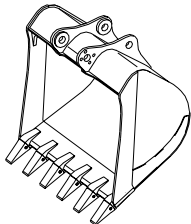
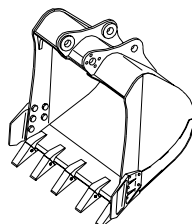
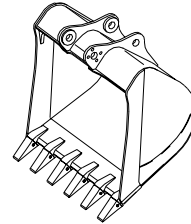
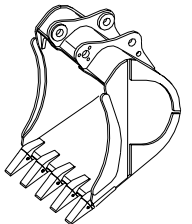
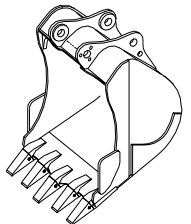
※ : Standard backhoe bucket

 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) GUIDE 2

				
1.97m ³ PCSA heaped bucket	⁽¹⁾ 2.10m ³ PCSA heaped bucket	⁽²⁾ 2.10m ³ PCSA heaped bucket	⁽³⁾ ◆1.38m ³ PCSA heaped bucket	⁽⁴⁾ ◆1.38m ³ PCSA heaped bucket

Capacity		Width		Weight	Recommendation					
PCSA heaped	CECE heaped	Without side cutter	With side cutter		6.45m(21' 2") boom				6.15m(20' 2") boom	
					2.2m arm (7' 3")	2.5m arm (8' 2")	3.2m arm (10' 6")	4.05m arm (13' 3")	2.2m arm (6' 7")	2.5m arm (7' 10")
1.97m ³ (2.58yd ³)	1.70m ³ (2.22yd ³)	1800mm (70.9")	—	1190kg (2620lb)						
⁽¹⁾ 2.10m ³ (2.75yd ³)	1.80m ³ (2.35yd ³)	1595mm (62.8")	1715mm (67.5")	1330kg (2930lb)						
⁽²⁾ 2.10m ³ (2.75yd ³)	1.80m ³ (2.35yd ³)	1900mm (74.8")	—	1230kg (2710lb)						
⁽³⁾ ◆1.38m ³ (1.80yd ³)	1.20m ³ (1.57yd ³)	1405mm (55.3")	—	1235kg (2720lb)						
⁽⁴⁾ ◆1.38m ³ (1.80yd ³)	1.20m ³ (1.57yd ³)	1430mm (56.3")	—	1460kg (3220lb)						

◆ : Rock 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

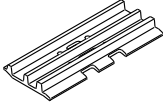
Applicable for materials with density of 1100kg/m³ (1850lb/yd³) or less

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				
							
R320-3	Shoe width	mm(in)	600(24")	700(28")	750(30")	800(32")	900(36")
	Operating weight	kg(lb)	30150(66470)	30550(67350)	30700(67680)	30850(68010)	31150(68670)
	Ground pressure	kg/cm ² (psi)	0.62(8.82)	0.54(7.68)	0.51(7.25)	0.48(6.82)	0.43(6.11)
	Overall width	mm(ft-in)	3280(10' 9")	3380(11' 1")	3430(11' 3")	3480(11' 5")	3580(11' 9")
R320LC-3	Shoe width	mm(in)	600(24")	700(28")	750(29.5")	800(32")	900(36")
	Operating weight	kg(lb)	31200(68780)	31600(69670)	31750(70000)	31900(70330)	32200(70990)
	Ground pressure	kg/cm ² (psi)	0.60(8.53)	0.52(7.40)	0.49(6.97)	0.46(6.54)	0.41(5.83)
	Overall width	mm(ft-in)	3280(10' 9")	3380(11' 1")	3430(11' 3")	3480(11' 5")	3580(11' 9")
R320NLC-3	Shoe width	mm(in)	600(24")	700(28")	—	—	—
	Operating weight	kg(lb)	31000(68340)	31400(69230)	—	—	—
	Ground pressure	kg/cm ² (psi)	0.59(8.39)	0.52(7.40)	—	—	—
	Overall width	mm(ft-in)	2990(9' 10")	3090(10' 2")	—	—	—

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity	
	ROBEX 320-3	ROBEX 320LC-3/R320NLC-3
Carrier rollers	2EA	2EA
Track rollers	8EA	9EA
Track shoes	48EA	51EA

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Cummins 6CTA8.3-C
Type	4-cycle turbocharged & after cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114 × 135mm(4.49" × 5.32")
Piston displacement	8300cc(504.5cu in)
Compression ratio	16.5 : 1
Rated gross horse power(SAE J1349)	230Hp at 2000rpm(172kW at 2000rpm)
Maximum torque at 1500rpm	99.6kgf · m(720lb · ft)
Engine oil quantity	21.9 ℓ (5.8U.S. gal)
Dry weight	610kg(1340lb)
High idling speed	2275 ± 50rpm
Low idling speed	800 ± 50rpm
Rated fuel consumption	151.5g/Ps · hr
Starting motor	Nippondenso, 7.5kW
Alternator	DAC HC60(24V-60AMP)
Battery	2 × 12V × 160Ah

2) MAIN PUMP

Item	Specification
Type	Variable displacement tandem axis piston pumps
Capacity	2 × 130cc/rev
Maximum pressure	320kg/cm ² (4550psi)[350kg/cm ² (4980psi)]
Rated oil flow	2 × 260 ℓ /min (68.7U.S. gpm/ 57.2U.K. gpm)
Rated speed	2000rpm

[] : Power boost

3) GEAR PUMP

Item	Specification
Type	Fixed displacement gear pump single stage
Capacity	10cc/rev
Maximum pressure	40kg/cm ² (570psi)
Rated oil flow	20 ℓ/min(5.3U.S. gpm/4.4U.K. gpm)

4) MAIN CONTROL VALVE

Item	Specification
Type	7 spools
Operating method	Hydraulic pilot system
Main relief valve pressure	320kg/cm ² (4551psi) [350kg/cm ² (4980psi)]
Overload relief valve pressure	380kg/cm ² (5405psi)

[] : Power boost

5) SWING MOTOR

Item	Specification
Type	Two fixed displacement axial piston motor
Capacity	169.4cc/rev
Relief pressure	250kg/cm ² (3556psi)
Braking system	Automatic, spring applied hydraulic released
Braking torque	70kg · m(506lb · ft)
Brake release pressure	26kg/cm ² (370psi)
Reduction gear type	2 - stage planetary
Swing speed	9rpm

6) TRAVEL MOTOR

Item	Specification
Type	Variable displacement axial piston motor
Relief pressure	325kg/cm ² (4623psi)
Reduction gear type	3-stage planetary
Braking system	Automatic, spring applied hydraulic released
Brake release pressure	8.5kg/cm ² (121psi)
Braking torque	2700kg · m(19530lb · ft)

7) REMOTE CONTROL VALVE

Item		Specification
Type		Pressure reducing type
Operating pressure	Minimum	5.5kg/cm ² (78psi)
	Maximum	19.5kg/cm ² (277psi)
Single operation stroke	Lever	61mm(2.4in)
	Pedal	123mm(4.8in)

8) CYLINDER

Item		Specification
Boom cylinder	Bore dia × Rod dia × Stroke	Ø140 × Ø100 × 1480mm
	Cushion	Extend only
Arm cylinder	Bore dia × Rod dia × Stroke	Ø160 × Ø110 × 1685mm
	Cushion	Extend and retract
Bucket cylinder	Bore dia × Rod dia × Stroke	Ø140 × Ø100 × 1285mm
	Cushion	Extend only

9) SHOE

Item		Width	Ground pressure	Link quantity	Overall width
R320-3	Standard	600mm(24")	0.62kg/cm ² (8.82psi)	48	3280mm(10' 9")
	Option	700mm(28")	0.54kg/cm ² (7.68psi)	48	3380mm(11' 1")
		750mm(30")	0.51kg/cm ² (7.25psi)	48	3430mm(11' 3")
		800mm(32")	0.48kg/cm ² (6.82psi)	48	3480mm(11' 5")
		900mm(36")	0.43kg/cm ² (6.11psi)	48	3580mm(11' 9")
R320LC-3	Standard	600mm(24")	0.60kg/cm ² (8.53psi)	51	3280mm(10' 9")
	Option	700mm(28")	0.52kg/cm ² (7.40psi)	51	3380mm(11' 1")
		750mm(30")	0.49kg/cm ² (6.67psi)	51	3430mm(11' 3")
		800mm(32")	0.46kg/cm ² (6.54psi)	51	3480mm(11' 5")
		900mm(36")	0.41kg/cm ² (5.83psi)	51	3580mm(11' 9")
R320NLC-3	Standard	600mm(24")	0.59kg/cm ² (8.39psi)	51	2990mm(9' 10")
	Option	700mm(28")	0.52kg/cm ² (7.40psi)	51	3090mm(10' 2")

10) BUCKET

Item		Capacity		Tooth quantity	Width		
		PCSA heaped	CECE heaped		Without side cutter	With side cutter	
R320-3 R320LC-3 R320NLC-3	Standard	1.44m ³ (1.89yd ³)	1.25m ³ (1.63yd ³)	5	1380mm(54.3")	1500mm(59.1")	
	Option		0.90m ³ (1.18yd ³)	0.80m ³ (1.05yd ³)	3	950mm(37.4")	1070mm(42.1")
			1.14m ³ (1.49yd ³)	1.00m ³ (1.30yd ³)	4	1140mm(44.9")	1260mm(49.6")
			1.38m ³ (1.81yd ³)	1.20m ³ (1.57yd ³)	5	1330mm(52.4")	1450mm(57.1")
			1.74m ³ (2.28yd ³)	1.50m ³ (1.96yd ³)	6	1610mm(63.4")	1730mm(68.1")
			1.97m ³ (2.58yd ³)	1.70m ³ (2.22yd ³)	6	1800mm(70.9")	—
			2.10m ³ (2.75yd ³)	1.80m ³ (2.35yd ³)	5	1595mm(62.8")	1715mm(67.5")
			2.10m ³ (2.75yd ³)	1.80m ³ (2.35yd ³)	6	1900mm(74.8")	—
			◆1.38m ³ (1.81yd ³)	1.20m ³ (1.57yd ³)	5	1405mm(55.3")	—
			◆1.38m ³ (1.81yd ³)	1.20m ³ (1.57yd ³)	5	1430mm(56.3")	—

◆ : Rock 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	21.9(5.8)						SAE 30			
			SAE 10W								
			SAE 10W-30								
			SAE 15W-40								
Swing drive	Gear oil	11(2.9)					SAE 85W-140				
Final drive		7 × 2 (1.8 × 2)									
Hydraulic tank	Hydraulic oil	Tank; 270(71.3) System; 400(105.7)	ISO VG 32								
			ISO VG 46								
			ISO VG 68								
Fuel tank	Diesel fuel	450(118.9)	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	49.8(13.2)		Ethylene glycol base permanent type							

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO : International Organization for Standardization

NLGI : National Lubricating Grease Institute

ASTM : American Society of Testing and Material