

4.3 Boom

4.3.1 Boom, fully-extended outriggers, 25 t counterweight

	13m~36.4m 25t 6.55m×7.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
2.5	100*										3
3	90*	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	70	62	38	47	37	38					5
5.5	64	58	38	47	37	38	36				5.5
6	58	55	38	46	37	38	36	38			6
7	48	47	38	45	37	38	36	38	23	31	7
8	41.5	41	38	40.5	37	38	35	38	22	30	8
9	36	35.5	36	35	36	38	32	38	22	28	9
10		31	33	31	32	32	30	32	22	26	10
12		24.8	26.5	24.5	26	26	25	26	20.9	24	12
14			21.9	19	21.1	22.8	20.6	22.1	18.5	21	14
16				14.7	16.8	18.4	16.2	17.7	16.8	17.1	16
18					13.6	15.2	13.1	14.5	15.3	13.9	18
20						12.7	10.7	12.1	13.2	11.5	20
22							8.8	10.2	11.3	9.6	22
24								8.6	9.7	8.1	24
26									8.4	6.8	26
28										5.7	28
30											30
32											32
34											34
2nd boom section	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	



Notes: The lifting capacity with * is under the maximum torque. It only indicates the lifting capacity, while can not be used in actual lifting operation.











	38.8m~50.5m 25t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	23	21					9
10	22	18	23	21	20.9	18.1			10
12	21	16.8	22	21	19.1	16.8	14.7		12
14	19.4	15.2	20	20	17.9	15.5	14.2		14
16	17.8	13.9	17.2	17.1	15.9	14.2	13.2		16
18	15	12.5	14.4	14.5	14.2	13	11.9		18
20	12.6	11.6	11.9	12.2	12.2	12.1	11.1		20
22	10.7	10.7	10	10.2	10.3	11	10		22
24	9.1	9.9	8.5	8.6	8.8	9.5	9		24
26	7.8	8.7	7.2	7.4	7.5	8.2	7.8		26
28	6.8	7.6	6.1	6.3	6.4	7.1	6.7		28
30	5.9	6.7	5.2	5.4	5.5	6.2	5.8		30
32		5.9	4.5	4.6	4.7	5.4	5.1		32
34				3.9	4.1	4.7	4.3		34
36					3.5	4.1	3.7		36
38							3.2		38
40							2.8		40
42							2.4		42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.2 Boom on outriggers fully-extended with 20t counterweight

	13m~36.4m 20t 6.55m×7.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	90*	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	68	62	38	47	37	38					5
5.5	60	58	38	47	37	38	36				5.5
6	55	55	38	46	37	38	36	38			6
7	46	46	38	45	37	38	36	38	23	31	7
8	40	39	38	39	37	38	35	38	22	30	8
9	34.5	34	36	33.5	35	36	32	36	22	28	9
10		30	31	29.5	31	32	30	32	22	26	10
12		22.6	25.4	22.2	24.5	26	23.9	25.5	20.9	24	12
14			19.5	16.5	18.7	20.3	18.1	19.6	18.5	19	14
16				12.6	14.7	16.3	14.2	15.6	16.8	15	16
18					11.8	13.4	11.2	12.6	13.8	12.1	18
20						11.1	9	10.4	11.6	9.9	20
22							7.3	8.6	9.8	8.3	22
24								7.2	8.3	6.8	24
26									7.2	5.6	26
28										4.7	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 20t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7	-							-	7
8	23								8
9	22	18.5	23	21					9
10	22	18	23	21	20.9	18.1			10
12	21	16.8	22	21	19.1	16.8	14.7		12
14	19.4	15.2	19.5	20	17.9	15.5	14.2		14
16	16.2	13.9	15.5	15.7	15.8	14.2	13.2		16
18	13.2	12.5	12.5	12.7	12.8	13	11.9		18
20	10.9	11.6	10.5	10.6	10.8	11.3	10.9		20
22	9.2	10.1	8.6	8.7	8.9	9.6	9.2		22
24	7.8	8.6	7.2	7.3	7.5	8.2	7.8		24
26	6.6	7.5	6.1	6.1	6.3	7	6.6		26
28	5.6	6.5	5.1	5.2	5.4	6.1	5.6		28
30	4.8	5.6	4.3	4.3	4.6	5.2	4.8		30
32		4.9	3.6	3.6	3.9	4.5	4.1		32
34				3	3.3	3.9	3.5		34
36					2.7	3.4	3		36
38							2.5		38
40							2.1		40
42									42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.3 Boom on outriggers fully-extended with 15t counterweight

	13m~36.4m 15t 6.55m×7.9m										
											
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	64	62	38	47	37	38					5
5.5	57	58	38	47	37	38	36				5.5
6	52	52	38	46	37	38	36	38			6
7	43.5	43.5	38	43	37	38	36	38	23	31	7
8	37	37	38	37	37	38	35	38	22	30	8
9	31.3	30.6	33.5	30.2	32.6	34.5	32	33.7	22	28	9
10		24.8	27.5	24.5	26.7	28.5	26.1	27.7	22	26	10
12		17.5	19.9	17.1	19.2	20.8	18.6	20.1	20.9	19.5	12
14			15.1	12.3	14.4	15.9	13.9	15.2	16.5	14.7	14
16				9.2	11.1	12.6	10.5	11.9	13.1	11.4	16
18					8.7	10.2	8.2	9.5	10.6	9	18
20						8.4	6.5	7.7	8.7	7.2	20
22							5.1	6.3	7.4	5.8	22
24								5.2	6.2	4.8	24
26									5.3	3.8	26
28										3	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 15t 6.55m×7.9m										
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m				
3											3
3.5											3.5
4											4
4.5											4.5
5											5
5.5											5.5
6											6
7											7
8	23										8
9	22	18.5	23	21							9
10	22	18	23	21	20.9	18.1					10
12	20.6	16.8	19.9	20	19.1	16.8	14.7				12
14	15.8	15.2	15.1	15.3	15.5	15.5	14.2				14
16	12.4	13.3	11.8	12	12.1	12.8	12.3				16
18	10	10.9	9.5	9.5	9.7	10.4	10				18
20	8.2	9	7.6	7.7	7.9	8.5	8.1				20
22	6.8	7.7	6.2	6.4	6.5	7.1	6.7				22
24	5.7	6.5	5.1	5.2	5.4	6	5.6				24
26	4.8	5.5	4.1	4.3	4.4	5	4.7				26
28	4	4.8	3.4	3.5	3.7	4.3	3.9				28
30	3.3	4	2.8	2.9	3	3.6	3.2				30
32		3.5	2.1	2.3	2.4	3	2.7				32
34				1.9	2	2.6	2.1				34
36					1.5	2.2	1.8				36
38							1.3				38
40											40
42											42
2nd	50%	0%	100%	100%	100%	50%	100%				2nd
3rd	75%	100%	67%	75%	83%	100%	100%				3rd
4th	75%	100%	67%	75%	83%	100%	100%				4th
5th	75%	100%	67%	75%	83%	100%	100%				5th
n	4	4	4	4	4	3	3				n
	80t	80t	80t	80t	80t	80t	80t				
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s				

4.3.4 Boom on outriggers fully-extended with 14.7t counterweight

	13m~36.4m 14.7t 6.55m×7.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	64	62	38	47	37	38					5
5.5	57	58	38	47	37	38	36				5.5
6	52	52	38	46	37	38	36	38			6
7	43.5	43.5	38	43	37	38	36	38	23	31	7
8	37	37	38	37	37	38	35	38	22	30	8
9	31.3	30.6	33.5	30.2	32.6	34.5	32	33.7	22	28	9
10		24.8	27.5	24.5	26.7	28.5	26.1	27.7	22	26	10
12		17.5	19.9	17.1	19.2	20.8	18.6	20.1	20.9	19.5	12
14			15.1	12.3	14.4	15.9	13.9	15.2	16.5	14.7	14
16				9.2	11.1	12.6	10.5	11.9	13.1	11.4	16
18					8.7	10.2	8.2	9.5	10.6	9	18
20						8.4	6.5	7.7	8.7	7.2	20
22							5.1	6.3	7.4	5.8	22
24								5.2	6.2	4.8	24
26									5.3	3.8	26
28										3	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	











	38.8m~50.5m 14.7t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	23	21					9
10	22	18	23	21	20.9	18.1			10
12	20.6	16.8	19.9	20	19.1	16.8	14.7		12
14	15.8	15.2	15.1	15.3	15.5	15.5	14.2		14
16	12.4	13.3	11.8	12	12.1	12.8	12.3		16
18	10	10.9	9.5	9.5	9.7	10.4	10		18
20	8.2	9	7.6	7.7	7.9	8.5	8.1		20
22	6.8	7.7	6.2	6.4	6.5	7.1	6.7		22
24	5.7	6.5	5.1	5.2	5.4	6	5.6		24
26	4.8	5.5	4.1	4.3	4.4	5	4.7		26
28	4	4.8	3.4	3.5	3.7	4.3	3.9		28
30	3.3	4	2.8	2.9	3	3.6	3.2		30
32		3.5	2.1	2.3	2.4	3	2.7		32
34				1.9	2	2.6	2.1		34
36					1.5	2.2	1.8		36
38							1.3		38
40									40
42									42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.5 Boom on outriggers fully-extended with 9.7t counterweight

	13m~36.4m 9.7t 6.55m×7.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	68	65	38	47	37						4.5
5	61	60	38	47	37	38					5
5.5	54	54	38	47	37	38	36				5.5
6	50	50	38	46	37	38	36	38			6
7	42	42	38	41	37	38	36	38	23	31	7
8	34.5	33.7	36.8	33.1	35.8	37.9	35	37	22	30	8
9	27.1	26.4	29.3	25.9	28.4	30.2	27.7	29.4	22	28	9
10		21.2	24	20.9	23.1	24.9	22.5	24.1	22	23.5	10
12		14.5	17	14	16.2	17.9	15.7	17.2	18.5	16.6	12
14			12.7	9.9	11.9	13.5	11.3	12.8	14	12.2	14
16				7.1	9	10.5	8.6	9.8	11	9.4	16
18					6.9	8.4	6.5	7.7	8.8	7.3	18
20						6.8	5	6.2	7.2	5.7	20
22							3.7	5	5.9	4.5	22
24								4	5	3.5	24
26									4.1	2.7	26
28										2.1	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 9.7t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	23	21					9
10	22	18	23	20	20.9	18.1			10
12	17.8	16.8	17.1	17.3	17.5	16.8	14.7		12
14	13.3	14.3	12.7	12.9	13	13.8	13.3		14
16	10.4	11.3	9.7	9.9	10.1	10.8	10.4		16
18	8.3	9.1	7.7	7.8	7.9	8.6	8.2		18
20	6.7	7.5	6	6.2	6.4	7	6.6		20
22	5.4	6.2	4.9	5	5.1	5.8	5.3		22
24	4.4	5.2	3.9	4	4.1	4.8	4.3		24
26	3.6	4.4	3.1	3.2	3.3	4	3.5		26
28	3	3.7	2.3	2.5	2.6	3.2	2.9		28
30	2.3	3.2	1.8	2	2.1	2.7	2.3		30
32		2.6	1.4	1.4	1.5	2.2	1.8		32
34					1.2	1.7	1.4		34
36									36
38									38
40									40
42									42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.6 Boom on outriggers fully-extended with 7t counterweight

	13m~36.4m 7t 6.55m×7.9m										
											
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	67	65	38	47	37						4.5
5	60	60	38	47	37	38					5
5.5	53	53	38	47	37	38	36				5.5
6	48	48	38	46	37	38	36	38			6
7	40	40	38	40	37	38	36	38	23	31	7
8	31.7	30.9	34	30.3	33	35.1	32.3	34.2	22	30	8
9	24.8	24	27	23.6	26	27.9	25.4	27.1	22	26.5	9
10		19.2	22.1	18.7	21.2	23	20.5	22.2	22	21.6	10
12		12.8	15.4	12.4	14.6	16.3	14	15.5	16.8	14.9	12
14			11.3	8.6	10.6	12.2	10.1	11.4	12.7	10.9	14
16				6	7.9	9.5	7.4	8.7	9.9	8.2	16
18					6	7.5	5.5	6.8	7.9	6.3	18
20						5.9	4.1	5.3	6.4	4.9	20
22							3	4.2	5.2	3.7	22
24								3.3	4.3	2.8	24
26									3.5	2.1	26
28										1.4	28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	











	38.8m~50.5m 7t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	23	21					9
10	22	18	22.1	20	20.9	18.1			10
12	16.1	16.8	15.4	15.6	15.8	16.6	14.7		12
14	12.1	13	11.3	11.5	11.7	12.4	12		14
16	9.3	10.2	8.6	8.8	8.9	9.6	9.2		16
18	7.3	8.2	6.7	6.8	7	7.7	7.2		18
20	5.9	6.7	5.2	5.4	5.5	6.2	5.8		20
22	4.7	5.5	4.1	4.2	4.4	5	4.6		22
24	3.8	4.6	3.2	3.3	3.4	4.1	3.7		24
26	3.1	3.8	2.4	2.6	2.7	3.3	3		26
28	2.4	3.2	1.8	2	2.1	2.7	2.3		28
30	1.9	2.6	1.3	1.4	1.5	2.2	1.8		30
32						1.7	1.4		32
34									34
36									36
38									38
40									40
42									42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		











4.3.7 Boom on outriggers fully-extended with 1.7t counterweight

	13m~36.4m 1.7t 6.55m×7.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	73	67	38								4
4.5	64	65	38	47	37						4.5
5	57	56	38	47	37	38					5
5.5	51	50	38	47	37	38	36				5.5
6	46	46	38	46	37	38	36	38			6
7	35.5	34.5	38	33.9	37	38	36	38	23	31	7
8	26.2	25.4	28.5	24.8	27.5	29.6	26.8	28.7	22	28.1	8
9	19.9	19.1	22.2	18.6	21.2	23.3	20.6	22.4	22	21.8	9
10		14.9	17.7	14.4	16.8	18.7	16.2	17.9	19.4	17.3	10
12		9.5	12.2	9.2	11.3	13.1	10.7	12.2	13.5	11.7	12
14			8.7	5.9	8	9.5	7.5	8.8	10.1	8.3	14
16				3.8	5.8	7.2	5.2	6.6	7.7	6	16
18					4.1	5.6	3.6	5	6	4.4	18
20						4.3	2.4	3.7	4.8	3.2	20
22							1.5	2.8	3.8	2.3	22
24								2	3	1.5	24
26									2.3		26
28											28
30											30
32											32
34											34
36											36
38											38
40											40
42											42
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 1.7t 6.55m×7.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	22.3	20					9
10	18.6	18	17.8	18	18.2	18.1			10
12	12.9	13.9	12.2	12.3	12.5	13.3	12.8		12
14	9.5	10.4	8.7	8.9	9.1	9.8	9.4		14
16	7.1	8	6.5	6.7	6.8	7.5	7		16
18	5.5	6.3	4.9	5	5.1	5.8	5.4		18
20	4.2	5	3.6	3.8	3.9	4.5	4.1		20
22	3.2	4.1	2.6	2.8	2.9	3.6	3.2		22
24	2.4	3.2	1.9	2.1	2.2	2.8	2.3		24
26	1.8	2.6	1.3	1.4	1.5	2.2	1.7		26
28	1.3	2.1				1.6	1.3		28
30									30
32									32
34									34
36									36
38									38
40									40
42									42
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.8 Boom on outriggers half-extended with 25t counterweight

	13m~36.4m 25t 6.55m×5.9m										
											
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	70	62	38	47	37	38					5
5.5	64	58	38	47	37	38	36				5.5
6	58	55	38	46	37	38	36	38			6
7	44.6	43.7	38	43.2	37	38	36	38	23	31	7
8	34.6	33.8	36.6	33.3	35.7	37.6	35	36.8	22	30	8
9	27.8	27.1	29.8	26.6	28.9	30.7	28.4	29.9	22	28	9
10		22.3	24.8	22	24	25.7	23.5	24.9	22	24.4	10
12		15.9	18.3	15.6	17.6	19.1	17	18.4	19.5	17.8	12
14			14	11.5	13.3	14.8	12.9	14.1	15.2	13.7	14
16				8.7	10.4	11.9	10	11.3	12.3	10.7	16
18					8.4	9.7	7.9	9.1	10.1	8.6	18
20						8	6.3	7.5	8.5	7	20
22							5	6.1	7.1	5.7	22
24								5.1	6	4.7	24
26									5.2	3.8	26
28										3.1	28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	











	38.8m~50.5m 25t 6.55m×5.9m									
										
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m			
3										3
3.5										3.5
4										4
4.5										4.5
5										5
5.5										5.5
6										6
7										7
8	23									8
9	22	18.5	23	21						9
10	22	18	23	20	20.9	18.1				10
12	18.9	16.8	18.3	18.5	18.5	16.8	14.7			12
14	14.7	15.2	14	14.2	14.3	15	14.2			14
16	11.7	12.6	11.2	11.3	11.4	12.1	11.7			16
18	9.5	10.4	9	9.1	9.3	9.9	9.5			18
20	7.9	8.7	7.4	7.5	7.7	8.2	7.8			20
22	6.6	7.4	6	6.2	6.3	6.9	6.6			22
24	5.6	6.3	5	5.1	5.2	5.9	5.5			24
26	4.7	5.4	4.1	4.2	4.4	5	4.6			26
28	4	4.7	3.4	3.5	3.6	4.2	3.9			28
30	3.3	4.1	2.8	2.9	3.1	3.6	3.2			30
32		3.5	2.3	2.3	2.5	3.1	2.7			32
34				1.9	2	2.6	2.3			34
36					1.6	2.2	1.8			36
2nd	50%	0%	100%	100%	100%	50%	100%			2nd
3rd	75%	100%	67%	75%	83%	100%	100%			3rd
4th	75%	100%	67%	75%	83%	100%	100%			4th
5th	75%	100%	67%	75%	83%	100%	100%			5th
n	4	4	4	4	4	3	3			n
	80t	80t	80t	80t	80t	80t	80t			
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s			

4.3.9 Boom on outriggers half-extended with 20t counterweight

	13m~36.4m 20t 6.55m×5.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	68	62	38	47	37	38					5
5.5	60	58	38	47	37	38	36				5.5
6	54.1	53.1	38	46	37	38	36	38			6
7	39.2	38.4	38	37.9	37	38	36	38	23	31	7
8	30.2	29.5	32.4	29.1	31.5	33.3	30.9	32.5	22	30	8
9	24.2	23.6	26.2	23.1	25.4	27.1	24.8	26.4	22	25.7	9
10		19.3	21.8	18.9	21	22.7	20.4	21.9	22	21.3	10
12		13.6	15.9	13.2	15.1	16.7	14.6	16	17.1	15.5	12
14			12.2	9.5	11.4	12.9	10.9	12.2	13.3	11.7	14
16				7	8.8	10.2	8.4	9.6	10.6	9.1	16
18					6.9	8.3	6.5	7.7	8.6	7.2	18
20						6.8	5	6.2	7.2	5.8	20
22							3.9	5	6	4.6	22
24								4.1	5	3.6	24
26									4.2	2.9	26
28										2.2	28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 20t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	23	20					9
10	22	18	21.8	20	20.9	18.1			10
12	16.6	16.8	15.8	16	16.2	16.8	14.7		12
14	12.7	13.6	12.1	12.2	12.4	13.1	12.7		14
16	10.1	10.9	9.5	9.6	9.7	10.4	10		16
18	8.2	8.9	7.6	7.7	7.8	8.5	8.1		18
20	6.7	7.5	6.1	6.2	6.4	6.9	6.6		20
22	5.5	6.2	5	5	5.2	5.8	5.4		22
24	4.5	5.3	4	4.1	4.2	4.9	4.4		24
26	3.8	4.5	3.2	3.3	3.4	4.1	3.7		26
28	3.1	3.8	2.5	2.7	2.8	3.4	3		28
30	2.5	3.2	2	2.1	2.3	2.8	2.4		30
32		2.8	1.5	1.6	1.7	2.3	2		32
34				1.2	1.4	1.9	1.5		34
36						1.5	1.2		36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.10 Boom on outriggers half-extended with 15t counterweight

	13m~36.4m 15t 6.55m×5.9m										
											
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	64	62	38	47	37	38					5
5.5	57	55.9	38	47	37	38	36				5.5
6	46.6	45.7	38	45.1	37	38	36	38			6
7	33.7	32.8	35.9	32.3	34.9	37	34.3	36.1	23	31	7
8	25.7	25	27.9	24.6	27	28.8	26.3	28	22	27.4	8
9	20.5	19.8	22.4	19.4	21.6	23.3	21	22.6	22	22	9
10		16	18.5	15.7	17.7	19.4	17.2	18.7	19.9	18.1	10
12		11.1	13.4	10.7	12.6	14.1	12.2	13.5	14.7	13	12
14			10.1	7.5	9.4	10.8	8.8	10.2	11.3	9.6	14
16				5.3	7.1	8.5	6.6	7.8	8.9	7.4	16
18					5.4	6.8	5	6.1	7.2	5.7	18
20						5.4	3.7	4.9	5.9	4.4	20
22							2.7	3.8	4.8	3.3	22
24								3	4	2.5	24
26									3.2	1.9	26
28										1.2	28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	6th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 15t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	22.5	20					9
10	19.3	18	18.5	18.8	18.9	18.1			10
12	14	14.9	13.4	13.5	13.7	14.4	14		12
14	10.7	11.5	10.1	10.2	10.4	11	10.6		14
16	8.4	9.2	7.7	7.9	8	8.6	8.3		16
18	6.7	7.5	6	6.2	6.3	6.9	6.6		18
20	5.3	6.1	4.8	4.9	5	5.7	5.2		20
22	4.3	5	3.7	3.9	4	4.6	4.2		22
24	3.4	4.2	2.9	3	3.2	3.8	3.3		24
26	2.8	3.5	2.2	2.3	2.4	3.1	2.7		26
28	2.2	2.9	1.6	1.8	1.9	2.4	2.1		28
30	1.7	2.4	1.1	1.2	1.3	2	1.6		30
32						1.5	1.1		32
34									34
36									36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.11 Boom on outriggers half-extended with 14.7t counterweight

	13m~36.4m 14.7t 6.55m×5.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	73	65	38	47	37						4.5
5	64	62	38	47	37	38					5
5.5	57	55.9	38	47	37	38	36				5.5
6	46.6	45.7	38	45.1	37	38	36	38			6
7	33.7	32.8	35.9	32.3	34.9	37	34.3	36.1	23	31	7
8	25.7	25	27.9	24.6	27	28.8	26.3	28	22	27.4	8
9	20.5	19.8	22.4	19.4	21.6	23.3	21	22.6	22	22	9
10		16	18.5	15.7	17.7	19.4	17.2	18.7	19.9	18.1	10
12		11.1	13.4	10.7	12.6	14.1	12.2	13.5	14.7	13	12
14			10.1	7.5	9.4	10.8	8.8	10.2	11.3	9.6	14
16				5.3	7.1	8.5	6.6	7.8	8.9	7.4	16
18					5.4	6.8	5	6.1	7.2	5.7	18
20						5.4	3.7	4.9	5.9	4.4	20
22							2.7	3.8	4.8	3.3	22
24								3	4	2.5	24
26									3.2	1.9	26
28										1.2	28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 14.7t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	23								8
9	22	18.5	22.5	20					9
10	19.3	18	18.5	18.8	18.9	18.1			10
12	14	14.9	13.4	13.5	13.7	14.4	14		12
14	10.7	11.5	10.1	10.2	10.4	11	10.6		14
16	8.4	9.2	7.7	7.9	8	8.6	8.3		16
18	6.7	7.5	6	6.2	6.3	6.9	6.6		18
20	5.3	6.1	4.8	4.9	5	5.7	5.2		20
22	4.3	5	3.7	3.9	4	4.6	4.2		22
24	3.4	4.2	2.9	3	3.2	3.8	3.3		24
26	2.8	3.5	2.2	2.3	2.4	3.1	2.7		26
28	2.2	2.9	1.6	1.8	1.9	2.4	2.1		28
30	1.7	2.4	1.1	1.2	1.3	2	1.6		30
32						1.5	1.1		32
34									34
36									36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.12 Boom on outriggers half-extended with 9.7t counterweight

	13m~36.4m 9.7t 6.55m×5.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	68	65	38	47	37						4.5
5	61	60	38	47	37	38					5
5.5	48.6	47.5	38	45	37	38	36				5.5
6	39.6	38.6	38	38.1	37	38	36	38			6
7	28.4	27.5	30.7	27	29.7	31.8	29	30.9	23	30.2	7
8	21.5	20.8	23.6	20.3	22.7	24.6	22.1	23.8	22	23.1	8
9	16.9	16.3	18.9	15.8	18.1	19.8	17.5	19	20.3	18.5	9
10		13.1	15.5	12.6	14.8	16.4	14.1	15.7	16.9	15	10
12		8.6	11	8.3	10.3	11.8	9.7	11.1	12.2	10.6	12
14			8.1	5.6	7.4	8.8	6.9	8.2	9.3	7.7	14
16				3.7	5.4	6.8	5	6.2	7.3	5.8	16
18					4	5.3	3.5	4.7	5.8	4.2	18
20						4.1	2.4	3.6	4.6	3.2	20
22							1.5	2.7	3.7	2.3	22
24								2	3	1.5	24
26									2.3		26
28											28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 9.7t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	22								8
9	19.7	18.5	18.9	19.2					9
10	16.2	17.2	15.6	15.8	15.8	16.7			10
12	11.7	12.6	11	11.2	11.3	12.1	11.6		12
14	8.7	9.6	8.1	8.3	8.4	9.1	8.6		14
16	6.7	7.6	6.1	6.2	6.4	7	6.7		16
18	5.2	6	4.6	4.8	4.9	5.5	5.1		18
20	4.1	4.9	3.5	3.6	3.8	4.4	4		20
22	3.2	4	2.6	2.7	2.9	3.5	3.1		22
24	2.4	3.2	1.9	2	2.2	2.7	2.3		24
26	1.8	2.6	1.3	1.4	1.5	2.2	1.7		26
28	1.4	2.1				1.6	1.3		28
30									30
32									32
34									34
36									36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.3.13 Boom on outriggers half-extended with 7t counterweight

	13m~36.4m 7t 6.55m×5.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	76	67	38								4
4.5	67	65	38	47	37						4.5
5	56.3	55	38	47	37	38					5
5.5	44	42.9	38	42.3	37	38	36				5.5
6	35.8	34.8	38	34.3	37	38	36	38			6
7	25.5	24.7	27.8	24.1	26.8	28.9	26.1	28	23	27.3	7
8	19.3	18.5	21.3	18	20.4	22.3	19.8	21.4	22	20.8	8
9	15	14.3	17	14	16.1	17.9	15.6	17.1	18.5	16.6	9
10		11.3	13.9	11	13.1	14.8	12.5	14	15.2	13.4	10
12		7.4	9.7	7	9	10.5	8.5	9.8	11	9.3	12
14			7	4.5	6.4	7.8	5.9	7.2	8.3	6.7	14
16				2.8	4.6	5.9	4.1	5.3	6.4	4.9	16
18					3.2	4.6	2.7	4	5	3.5	18
20						3.5	1.7	2.9	3.9	2.4	20
22								2.1	3.1	1.6	22
24								1.4	2.4		24
26									1.8		26
28											28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 7t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	22								8
9	17.7	18.5	17	17.2					9
10	14.6	15.6	13.9	14	14.2	15			10
12	10.4	11.3	9.7	9.9	10	10.7	10.4		12
14	7.7	8.6	7	7.2	7.4	8	7.7		14
16	5.9	6.7	5.2	5.4	5.5	6.1	5.8		16
18	4.4	5.2	3.9	4	4.1	4.8	4.3		18
20	3.4	4.1	2.8	3	3.1	3.7	3.3		20
22	2.5	3.3	2	2.2	2.3	2.9	2.4		22
24	1.9	2.6	1.4	1.4	1.6	2.2	1.8		24
26	1.4	2.1				1.6	1.3		26
28									28
30									30
32									32
34									34
36									36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		















4.3.14 Boom on outriggers half-extended with 1.7t counterweight

	13m~36.4m 1.7t 6.55m×5.9m										
	13m	17.6m	20m	22.3m	24.7m	27m	29.4m	31.7m	34.1m	36.4m	
3	80	70									3
3.5	80	68									3.5
4	73	67	38								4
4.5	61.7	60.1	38	45	37						4.5
5	45.2	43.9	38	43.2	37	38					5
5.5	35.1	34	38	33.4	36.8	38	35.9				5.5
6	28.4	27.4	31.1	26.8	29.9	32.3	29.1	31.2			6
7	19.9	19	22.1	18.5	21.2	23.2	20.5	22.3	22	21.7	7
8	14.7	14	16.8	13.5	15.9	17.8	15.3	16.9	18.4	16.3	8
9	11.3	10.5	13.2	10.2	12.4	14.1	11.8	13.3	14.7	12.8	9
10		8.1	10.6	7.7	9.8	11.5	9.3	10.8	12.1	10.2	10
12		4.9	7.2	4.5	6.5	8	5.9	7.3	8.5	6.8	12
14			5	2.4	4.3	5.8	3.8	5.1	6.2	4.6	14
16					2.8	4.2	2.3	3.6	4.6	3.1	16
18					1.7	3.1	1.3	2.4	3.4	2	18
20						2.2		1.6	2.6		20
22									1.9		22
24											24
26											26
28											28
30											30
32											32
34											34
36											36
2nd	0%	50%	0%	100%	50%	0%	100%	50%	0%	100%	2nd
3rd	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	3rd
4th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	4th
5th	0%	0%	25%	0%	25%	50%	25%	50%	75%	50%	5th
n	13	11	7	8	7	6	6	6	5	5	n
	80t	80t	80t	80t	80t	80t	80t	80t	80t	80t	
	14.1m/s	14.1m/s	14.1m/s	12.8m/s	12.8m/s	12.8m/s	12.8m/s	11.1m/s	11.1m/s	11.1m/s	

	38.8m~50.5m 1.7t 6.55m×5.9m								
	38.8m	41.1m	41.2m	43.5m	45.7m	45.8m	50.5m		
3									3
3.5									3.5
4									4
4.5									4.5
5									5
5.5									5.5
6									6
7									7
8	17.6								8
9	14	15	13.2	13.4					9
10	11.3	12.3	10.6	10.9	11	11.8			10
12	7.8	8.7	7.2	7.4	7.5	8.3	7.8		12
14	5.6	6.5	5	5.1	5.3	5.9	5.6		14
16	4.1	4.9	3.4	3.6	3.8	4.4	4		16
18	2.9	3.7	2.3	2.5	2.6	3.2	2.9		18
20	2.1	2.8	1.4	1.6	1.7	2.3	2		20
22	1.4	2.2				1.7	1.3		22
24									24
26									26
28									28
30									30
32									32
34									34
36									36
2nd	50%	0%	100%	100%	100%	50%	100%		2nd
3rd	75%	100%	67%	75%	83%	100%	100%		3rd
4th	75%	100%	67%	75%	83%	100%	100%		4th
5th	75%	100%	67%	75%	83%	100%	100%		5th
n	4	4	4	4	4	3	3		n
	80t	80t	80t	80t	80t	80t	80t		
	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s	11.1m/s		

4.4 Jib operation mode















4.4.1 Boom and jib on outriggers fully-extended with 25t counterweight

	25t 			7.9m x 6.55m 			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
										
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.9	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	6.4	5.8	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	6.0	5.2	4.0	3.1	2.0	1.6	2.4	1.6	1.0	65°
60°	4.8	4.3	3.7	3.1	1.8	1.5	2.4	1.6	1.0	60°
55°	3.8	3.6	3.2	2.6	1.7	1.4	2.2	1.3		55°
50°	3.0	2.8	2.7	2.1	1.5	1.3	1.6	1.1		50°
n	1									n
	7t									
	$v \leq 9$									

4.4.2 Boom and jib on outriggers fully-extended with 20t counterweight

	20t			7.9m x 6.55m			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
	A (°)									
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.9	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	6.4	5.8	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	5.5	5.0	4.0	3.1	2.0	1.6	2.4	1.6	1	65°
60°	4.2	3.8	3.6	3.1	1.8	1.5	2.4	1.6	1	60°
55°	3.0	2.8	2.7	2.2	1.7	1.4	1.8	1.3		55°
50°	2.2	2.1	1.9	1.6	1.5	1.3	1.1			50°
n	1									n
	7t									
	v ≤ 9									

4.4.3 Boom and jib on outriggers fully-extended with 15t counterweight

	15t 			7.9m × 6.55m 			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
										
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.9	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	6.4	5.8	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	4.6	4.2	3.9	3.1	2.0	1.6	2.4	1.6	1.0	65°
60°	3.2	3.0	2.7	2.5	1.8	1.5	1.9	1.6	1.0	60°
55°	2.1	2.0	1.9	1.7	1.5	1.4	1.2			55°
50°	1.6	1.5	1.3							50°
n	1									n
	7t									
	v ≤ 9									

4.4.4 Boom and jib on outriggers fully-extended with 14.7t counterweight

	14.7t			7.9m × 6.55m			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.9	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	6.4	5.8	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	4.6	4.2	3.9	3.1	2.0	1.6	2.4	1.6	1.0	65°
60°	3.2	3.0	2.7	2.5	1.8	1.5	1.9	1.6	1.0	60°
55°	2.1	2.0	1.9	1.7	1.5	1.4	1.2			55°
50°	1.6	1.5	1.3							50°
n	1									n
	7t									
	v ≤ 9									

4.4.5 Boom and jib on outriggers fully-extended with 9.7t counterweight

	7t			7.9m x 6.55m			ISO			
							ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	5.8	5	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	4.8	4.2	3.8	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	2.9	2.7	2.4	2.4	2	1.6	1.8	1.6	1	65°
60°	1.8	1.7	1.5	1.4	1.2	1.1				60°
n	1									n
	7t									
	v≤9									

4.4.6 Boom and jib on outriggers fully-extended with 7t counterweight

		7t			7.9m x 6.55m			ISO				
	50.5											
	10.5			17.5			7+17.5					
	0°	15°	30°	0°	15°	30°	0°	15°	30°			
	$(^\circ)$											
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°		
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°		
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°		
72°	5.8	5	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°		
70°	4.8	4.2	3.8	3.3	2.2	1.7	2.4	1.8	1.1	70°		
65°	2.9	2.7	2.4	2.4	2	1.6	1.8	1.6	1	65°		
60°	1.8	1.7	1.5	1.4	1.2	1.1				60°		
n	1										n	
	7t											
	$v \leq 9$											















4.4.7 Boom and jib on outriggers fully-extended with 1.7t counterweight

	1.7t 			7.9m x 6.55m 			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
(°)										(°)
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°
75°	6.3	5.3	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	4.4	3.8	3.4	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	3.5	3.1	2.8	2.8	2.2	1.7	2.2	1.8	1.1	70°
65°	2	1.7	1.6	1.5	1.3	1.1				65°
n	1									n
	7t									
	v≤9									

4.4.8 Boom and jib on outriggers half-extended with 25t counterweight

	25t			5.9m x 6.55m			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.9	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	6.4	5.7	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	4.3	4	3.7	3.1	2	1.6	2.4	1.6	1	65°
60°	3	2.8	2.7	2.5	1.8	1.5	1.9	1.6	1	60°
55°	2.1	2	1.9	1.6	1.5	1.4	1.2	1.1		55°
50°	1.4	1.3	1.3							50°
n	1									n
	7t									
	$v \leq 9$									

4.4.9 Boom and jib on outriggers half-extended with 20t counterweight

	20t 			5.9m x 6.55m 			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
 (°)										 (°)
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	6.5	5.7	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
70°	5.4	4.8	4.2	3.3	2.2	1.7	2.4	1.8	1.1	70°
65°	3.6	3.2	3	2.9	2	1.6	2.3	1.6	1	65°
60°	2.4	2.2	2	1.9	1.7	1.5	1.4	1.3		60°
55°	1.5	1.5	1.4	1.1						55°
n	1									n
	7t									
 m/s	v≤9									 m/s

4.4.10 Boom and jib on outriggers half-extended with 15t counterweight

		15t			5.9m × 6.55m			ISO				
	50.5											
	10.5			17.5			7+17.5					
	0°	15°	30°	0°	15°	30°	0°	15°	30°			
	n											
80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°		
78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°		
75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°		
72°	5.8	5.1	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°		
70°	4.7	4.2	3.8	3.3	2.2	1.7	2.4	1.8	1.1	70°		
65°	2.9	2.7	2.5	2.4	2	1.6	1.8	1.6	1	65°		
60°	1.8	1.6	1.6	1.3	1.2	1.1				60°		
n	1										n	
	7t											
	v ≤ 9											
















4.4.11 Boom and jib on outriggers half-extended with 14.7t counterweight

		14.7t			5.9m x 6.55m			ISO			
								ISO			
		50.5									
		10.5			17.5			7+17.5			
		0°	15°	30°	0°	15°	30°	0°	15°	30°	
	(°)										
	80°	6.5	6.5	4.3	4.3	3	2.2	2.4	2.2	1.5	80°
	78°	6.5	6.5	4.3	4	2.8	2.1	2.4	2.2	1.4	78°
	75°	6.5	6.2	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
	72°	5.8	5.1	4.3	3.5	2.5	1.8	2.4	1.8	1.2	72°
	70°	4.7	4.2	3.8	3.3	2.2	1.7	2.4	1.8	1.1	70°
	65°	2.9	2.7	2.5	2.4	2	1.6	1.8	1.6	1	65°
	60°	1.8	1.6	1.6	1.3	1.2	1.1				60°
n		1									n
		7t									
		v≤9									

4.4.12 Boom and jib on outriggers half-extended with 9.7t counterweight

	9.7t			5.9m x 6.55m			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.5	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	6.0	5.1	4.3	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	4.2	3.7	3.4	3.4	2.5	1.8	2.4	1.8	1.2	72°
70°	3.4	3.0	2.7	2.7	2.2	1.7	2.2	1.8	1.1	70°
65°	2.0	1.7	1.6	1.5	1.3	1.1				65°
n	1									n
	7t									
	$v \leq 9$									

4.4.13 Boom and jib on outriggers half-extended with 7t counterweight

	7t 			5.9m x 6.55m 			ISO			
	50.5									
	10.5			17.5			7+17.5			
	0°	15°	30°	0°	15°	30°	0°	15°	30°	
										
										
80°	6.5	6.5	4.3	4.3	3.0	2.2	2.4	2.2	1.5	80°
78°	6.5	6.4	4.3	4.0	2.8	2.1	2.4	2.2	1.4	78°
75°	5.2	4.5	3.9	3.7	2.6	1.9	2.4	2.2	1.3	75°
72°	3.6	3.1	2.9	2.9	2.4	1.8	2.3	1.8	1.2	72°
70°	2.9	2.5	2.3	2.3	1.9	1.7	1.7	1.5	1.1	70°
65°	1.5	1.3	1.3							65°
n	1									n
	7t									
	v≤9									