UNIVERSAL CRANES

CRANE SPECIFICATION

Linmac FE420

COMPREHENSIVE LIFTING SOLUTIONS

We look forward to providing a full heavy lift engineering and crane solution for your next project. Our heavy lift engineers and on site personnel are experienced in managing and organising highly de-manding lift requirements.

Contact us to discuss your lifting requirements and a free quote.

BRISBANE (HQ)
07 3907 5800
37 Paringa Rd, Murarrie, QLD, 4172

BALLINA
02 6686 7748
5 Convair Ave, Ballina, NSW, 2478

GLADSTONE
07 4829 5219
7 Morgan St, Gladstone, QLD, 4680

ROMA
07 4622 5522
8 Wormwell Drive, Roma QLD 4455

TOWNSVILLE
07 4779 4088
16 Mackley St, Garbutt QLD 4814

RICHLANDS
07 3907 5800
462 Boundary Rd, Richlands QLD 4077

ROCKHAMPTON
07 4939 1095
39-42 Johnson St, Park Hurst, QLD, 4702

BILOELA
07 4939 1095
67 Dawson Hwy, Biloela QLD 4715

SUNSHINE COAST
0409 595 618
562 Maroochydore Rd, Kunda Park, QLD, 4556

MACKAY
07 4952 6998
135 Diesel Drive, Paget QLD 4740

Mobile Crane Important Notes

1. Axle lock outs must be engaged before any lifting takes place

2. This load rating chart applies to crane used on a firm level surface. Using largest boom section possible for each lift. Operation outside limits of reach or angle shown on chart is not permitted

3. When mobiling a load careful operation practice says that the load should be kept as close to the ground and the to the front of the crane as possible, at speeds not exceeding 3 km/h

4. Hoist rope compensator operates on boom 2 only

5. Rope fitted is ø16 mm 6 x 25 IWRC

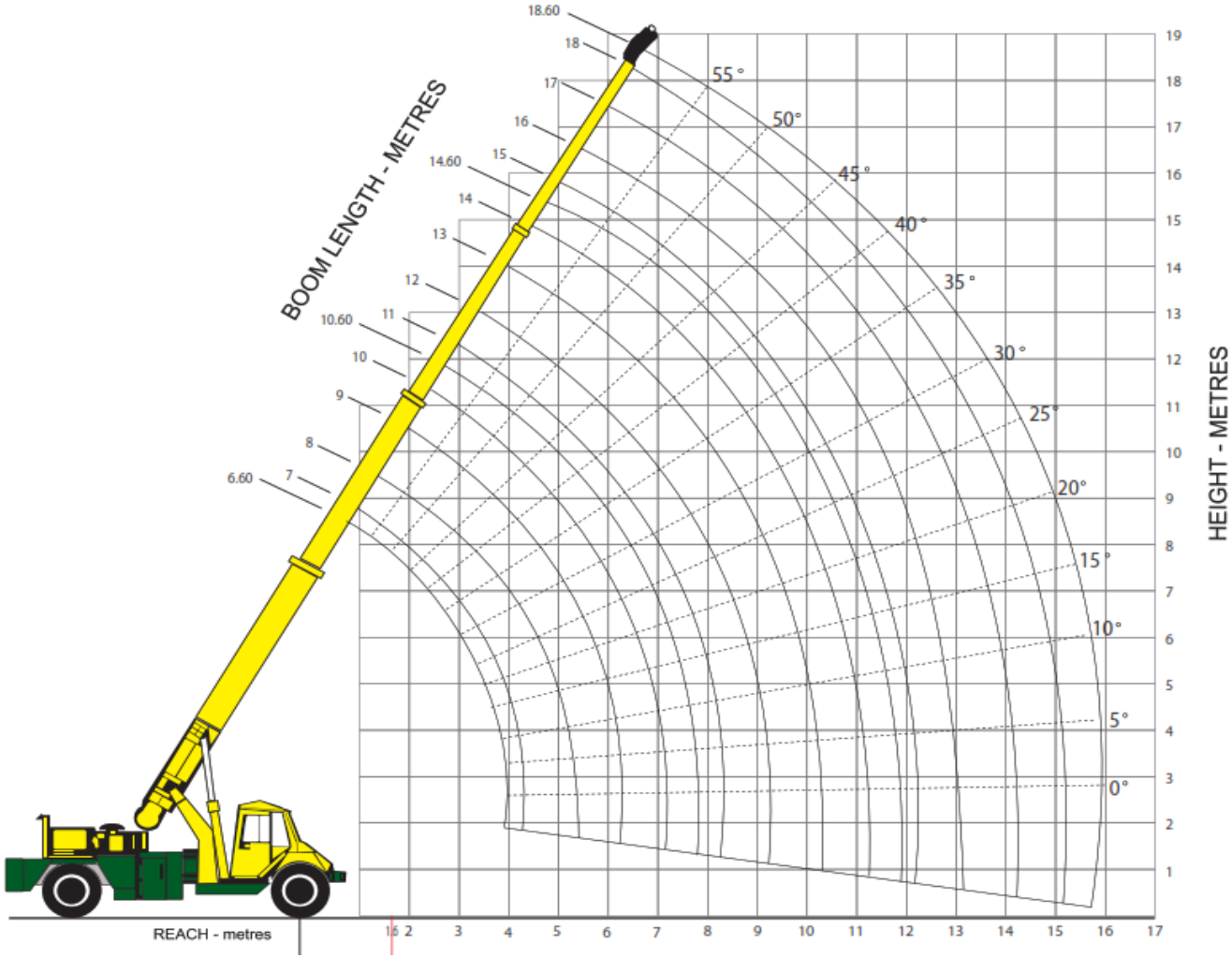
6. Full power boom operating mode
Out - Boom 2 extends to full length then booms 3 & 4 extend in equal amounts

In - Booms 3 & 4 retract in equal amounts then boom 2 retracts

7. Hook block Capacity

4 falls = 16000kg on top layer of drum

8. Tyre inflation should be 690 kPa for lifting purposes



LIFTING FROM MAIN BOOM (ON WINCH):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 0.0 **deg**

Boom Len Radius	**6.6**	**7**	**8**	**9**	**10**	**10.6**	**11**	**12**	**13**	**14**	**14.6**	**15**	**16**	**17**	**18**	**18.6**
1.6	16.00	16.00	16.00													
2	15.00	15.00	15.00	15.00												
2.5	13.44	13.44	13.44	13.44	13.44	13.44										
3	11.80	11.80	11.80	11.80	11.80	11.80	11.80									
3.5	10.17	10.17	10.17	10.17	10.17	10.17	10.17	10.17								
4	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64	8.64							
4.5		x	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63						
5			6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60				
5.5			x	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99			
6				5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37		
6.5				x	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
7					4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57
7.5					x	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
8						3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
8.5							x	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
9								3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
9.5								x	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
10									2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
10.5									x	2.68	2.68	2.68	2.68	2.68	2.68	2.68
11										2.53	2.53	2.53	2.53	2.53	2.53	2.53
11.5										x	2.38	2.38	2.38	2.38	2.38	2.38
12											2.23	2.23	2.23	2.23	2.23	2.23
12.5												x	2.07	2.07	2.07	2.07
13													1.91	1.91	1.91	1.91
13.5													x	1.86	1.86	1.86
14														1.81	1.81	1.81
14.5														x	1.77	1.77
15															1.73	1.73
15.5															x	1.62
16																1.51

LIFTING FROM MAIN BOOM (ON WINCH):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 0.0 **deg**

Boom Len Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	16.00	16.00	16.00	16.00												
2.5	15.12	15.12	15.12	15.12	15.12	15.12										
3	13.28	13.28	13.28	13.28	13.28	13.28	13.28									
3.5	11.44	11.44	11.44	11.44	11.44	11.44	11.44	11.44								
4	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72	9.72							
4.5		x	8.58	8.58	8.58	8.58	8.58	8.58	8.58	8.58						
5			7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43				
5.5			x	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73			
6				6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04		
6.5				x	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59
7					5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14
7.5					x	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
8						4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21
8.5							x	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94
9								3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65
9.5								x	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
10									3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
10.5									x	3.01	3.01	3.01	3.01	3.01	3.01	3.01
11										2.84	2.84	2.84	2.84	2.84	2.84	2.84
11.5										x	2.68	2.68	2.68	2.68	2.68	2.68
12											2.51	2.51	2.51	2.51	2.51	2.51
12.5												x	2.33	2.33	2.33	2.33
13													2.15	2.15	2.15	2.15
13.5													x	2.10	2.10	2.10
14														2.04	2.04	2.04
14.5														x	1.99	1.99
15															1.94	1.94
15.5															x	1.82
16																1.70

LIFTING FROM MAIN BOOM (ON WINCH):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 10 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	15.00	15.00	15.00	15.00												
2.5	13.16	13.16	13.16	13.16	13.16	13.16										
3	11.40	11.40	11.40	11.40	11.40	11.40	11.40									
3.5	9.83	9.83	9.83	9.83	9.83	9.83	9.83	9.83								
4	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36	8.36							
4.5		x	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37						
5			6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40				
5.5			x	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81			
6				5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23		
6.5				x	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
7					4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43
7.5					x	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04
8						3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
8.5							x	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
9								3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16
9.5								x	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96
10									2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
10.5									x	2.62	2.62	2.62	2.62	2.62	2.62	2.62
11										2.47	2.47	2.47	2.47	2.47	2.47	2.47
11.5										x	2.32	2.32	2.32	2.32	2.32	2.32
12											2.17	2.17	2.17	2.17	2.17	2.17
12.5												x	2.03	2.03	2.03	2.03
13													1.89	1.89	1.89	1.89
13.5													x	1.84	1.84	1.84
14														1.79	1.79	1.79
14.5														x	1.73	1.73
15															1.67	1.67
15.5															x	1.58
16																1.49

LIFTING FROM MAIN BOOM (ON WINCH):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 10 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	16.00	16.00	16.00	16.00												
2.5	14.80	14.80	14.80	14.80	14.80	14.80										
3	12.83	12.83	12.83	12.83	12.83	12.83	12.83									
3.5	11.06	11.06	11.06	11.06	11.06	11.06	11.06	11.06								
4	9.40	9.40	9.40	9.40	9.40	9.40	9.40	9.40	9.40							
4.5		x	8.29	8.29	8.29	8.29	8.29	8.29	8.29	8.29						
5			7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20				
5.5			x	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54			
6				5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88		
6.5				x	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43
7					4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98
7.5					x	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
8						4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
8.5							x	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
9								3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
9.5								x	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
10									3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
10.5									x	2.95	2.95	2.95	2.95	2.95	2.95	2.95
11										2.78	2.78	2.78	2.78	2.78	2.78	2.78
11.5										x	2.61	2.61	2.61	2.61	2.61	2.61
12											2.44	2.44	2.44	2.44	2.44	2.44
12.5												x	2.28	2.28	2.28	2.28
13													2.12	2.12	2.12	2.12
13.5													x	2.07	2.07	2.07
14														2.01	2.01	2.01
14.5														x	1.94	1.94
15															1.88	1.88
15.5															x	1.78
16																1.67

LIFTING FROM MAIN BOOM (ON WINCH):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 20 **deg**

Boom Len Radius	**6.6**	**7**	**8**	**9**	**10**	**10.6**	**11**	**12**	**13**	**14**	**14.6**	**15**	**16**	**17**	**18**	**18.6**
1.6	16.00	16.00	16.00													
2	15.00	15.00	15.00	15.00												
2.5	12.87	12.87	12.87	12.87	12.87	12.87										
3	11.00	11.00	11.00	11.00	11.00	11.00	11.00									
3.5	9.49	9.49	9.49	9.49	9.49	9.49	9.49	9.49								
4	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07							
4.5		x	7.11	7.11	7.11	7.11	7.11	7.11	7.11	7.11						
5			6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20				
5.5			x	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64			
6				5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09		
6.5				x	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69
7					4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
7.5					x	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
8						3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57
8.5							x	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
9								3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07
9.5								x	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
10									2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
10.5									x	2.56	2.56	2.56	2.56	2.56	2.56	2.56
11										2.41	2.41	2.41	2.41	2.41	2.41	2.41
11.5										x	2.26	2.26	2.26	2.26	2.26	2.26
12											2.11	2.11	2.11	2.11	2.11	2.11
12.5												x	1.99	1.99	1.99	1.99
13													1.86	1.86	1.86	1.86
13.5													x	1.81	1.81	1.81
14														1.76	1.76	1.76
14.5														x	1.69	1.69
15															1.61	1.61
15.5															x	1.54
16																1.46

LIFTING FROM MAIN BOOM (ON WINCH):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 20 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	16.00	16.00	16.00	16.00												
2.5	14.48	14.48	14.48	14.48	14.48	14.48										
3	12.38	12.38	12.38	12.38	12.38	12.38	12.38									
3.5	10.67	10.67	10.67	10.67	10.67	10.67	10.67	10.67								
4	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08	9.08							
4.5		x	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00						
5			6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98				
5.5			x	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35			
6				5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72		
6.5				x	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27
7					4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
7.5					x	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
8						4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
8.5							x	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
9								3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46
9.5								x	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
10									3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
10.5									x	2.88	2.88	2.88	2.88	2.88	2.88	2.88
11										2.72	2.72	2.72	2.72	2.72	2.72	2.72
11.5										x	2.55	2.55	2.55	2.55	2.55	2.55
12											2.38	2.38	2.38	2.38	2.38	2.38
12.5												x	2.23	2.23	2.23	2.23
13													2.09	2.09	2.09	2.09
13.5													x	2.03	2.03	2.03
14														1.98	1.98	1.98
14.5														x	1.90	1.90
15															1.82	1.82
15.5															x	1.73
16																1.64

LIFTING FROM MAIN BOOM (ON WINCH):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 30 **deg**

Boom Len Radius	**6.6**	**7**	**8**	**9**	**10**	**10.6**	**11**	**12**	**13**	**14**	**14.6**	**15**	**16**	**17**	**18**	**18.6**
1.6	16.00	16.00	16.00													
2	15.00	15.00	15.00	15.00												
2.5	12.59	12.59	12.59	12.59	12.59	12.59										
3	10.60	10.60	10.60	10.60	10.60	10.60	10.60									
3.5	9.14	9.14	9.14	9.14	9.14	9.14	9.14	9.14								
4	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79							
4.5		x	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86						
5			6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00				
5.5			x	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47			
6				4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94		
6.5				x	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
7					4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
7.5					x	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81
8						3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
8.5							x	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
9								2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
9.5								x	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
10									2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
10.5									x	2.51	2.51	2.51	2.51	2.51	2.51	2.51
11										2.36	2.36	2.36	2.36	2.36	2.36	2.36
11.5										x	2.21	2.21	2.21	2.21	2.21	2.21
12											2.06	2.06	2.06	2.06	2.06	2.06
12.5												x	1.94	1.94	1.94	1.94
13													1.83	1.83	1.83	1.83
13.5													x	1.78	1.78	1.78
14														1.73	1.73	1.73
14.5														x	1.64	1.64
15															1.56	1.56
15.5															x	1.49
16																1.43

LIFTING FROM MAIN BOOM (ON WINCH):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 30 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	16.00	16.00	16.00	16.00												
2.5	14.16	14.16	14.16	14.16	14.16	14.16										
3	11.93	11.93	11.93	11.93	11.93	11.93	11.93									
3.5	10.29	10.29	10.29	10.29	10.29	10.29	10.29	10.29								
4	8.76	8.76	8.76	8.76	8.76	8.76	8.76	8.76	8.76							
4.5		x	7.71	7.71	7.71	7.71	7.71	7.71	7.71	7.71						
5			6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75				
5.5			x	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16			
6				5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56		
6.5				x	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11
7					4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
7.5					x	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
8						3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
8.5							x	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
9								3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36
9.5								x	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
10									2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
10.5									x	2.82	2.82	2.82	2.82	2.82	2.82	2.82
11										2.65	2.65	2.65	2.65	2.65	2.65	2.65
11.5										x	2.48	2.48	2.48	2.48	2.48	2.48
12											2.31	2.31	2.31	2.31	2.31	2.31
12.5												x	2.19	2.19	2.19	2.19
13													2.06	2.06	2.06	2.06
13.5													x	2.00	2.00	2.00
14														1.94	1.94	1.94
14.5														x	1.85	1.85
15															1.75	1.75
15.5															x	1.68
16																1.61

LIFTING FROM MAIN BOOM (ON WINCH):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 40 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	15.00	15.00	15.00	15.00												
2.5	12.30	12.30	12.30	12.30	12.30	12.30										
3	10.20	10.20	10.20	10.20	10.20	10.20	10.20									
3.5	8.80	8.80	8.80	8.80	8.80	8.80	8.80	8.80								
4	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50							
4.5		x	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60						
5			5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80				
5.5			x	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30			
6				4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80		
6.5				x	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
7					4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
7.5					x	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
8						3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
8.5							x	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
9								2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
9.5								x	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
10									2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
10.5									x	2.45	2.45	2.45	2.45	2.45	2.45	2.45
11										2.30	2.30	2.30	2.30	2.30	2.30	2.30
11.5										x	2.15	2.15	2.15	2.15	2.15	2.15
12											2.00	2.00	2.00	2.00	2.00	2.00
12.5												x	1.90	1.90	1.90	1.90
13													1.80	1.80	1.80	1.80
13.5													x	1.75	1.75	1.75
14														1.70	1.70	1.70
14.5														x	1.60	1.60
15															1.50	1.50
15.5															x	1.45
16																1.40

LIFTING FROM MAIN BOOM (ON WINCH):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg of original OEM charts

Articulation: 40 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	16.00	16.00	16.00													
2	16.00	16.00	16.00	16.00												
2.5	13.84	13.84	13.84	13.84	13.84	13.84										
3	11.48	11.48	11.48	11.48	11.48	11.48	11.48									
3.5	9.90	9.90	9.90	9.90	9.90	9.90	9.90	9.90								
4	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44	8.44							
4.5		x	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43						
5			6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53				
5.5			x	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96			
6				5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40		
6.5				x	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
7					4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
7.5					x	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
8						3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
8.5							x	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
9								3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
9.5								x	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
10									2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93
10.5									x	2.76	2.76	2.76	2.76	2.76	2.76	2.76
11										2.59	2.59	2.59	2.59	2.59	2.59	2.59
11.5										x	2.42	2.42	2.42	2.42	2.42	2.42
12											2.25	2.25	2.25	2.25	2.25	2.25
12.5												x	2.14	2.14	2.14	2.14
13													2.03	2.03	2.03	2.03
13.5													x	1.97	1.97	1.97
14														1.91	1.91	1.91
14.5														x	1.80	1.80
15															1.69	1.69
15.5															x	1.63
16																1.58

LIFTING FROM RHINO LUG (8t CAPACITY):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 0.0 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07	8.07							
4.5		x	7.63	7.63	7.63	7.63	7.63	7.63	7.63	7.63						
5			6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60				
5.5			x	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99	5.99			
6				5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37	5.37		
6.5				x	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97	4.97
7					4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57	4.57
7.5					x	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
8						3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74	3.74
8.5							x	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50	3.50
9								3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24	3.24
9.5								x	3.04	3.04	3.04	3.04	3.04	3.04	3.04	3.04
10									2.83	2.83	2.83	2.83	2.83	2.83	2.83	2.83
10.5									x	2.68	2.68	2.68	2.68	2.68	2.68	2.68
11										2.53	2.53	2.53	2.53	2.53	2.53	2.53
11.5										x	2.38	2.38	2.38	2.38	2.38	2.38
12											2.23	2.23	2.23	2.23	2.23	2.23
12.5												x	2.07	2.07	2.07	2.07
13													1.91	1.91	1.91	1.91
13.5													x	1.86	1.86	1.86
14														1.81	1.81	1.81
14.5														x	1.77	1.77
15															1.73	1.73
15.5															x	1.62
16																1.51

LIFTING FROM RHINO LUG (8t CAPACITY):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 0.0 **deg**

Boom Len Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00							
4.5		x	8.08	8.08	8.08	8.08	8.08	8.08	8.08	8.08						
5			7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43				
5.5			x	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73	6.73			
6				6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04		
6.5				x	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59	5.59
7					5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14	5.14
7.5					x	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68	4.68
8						4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21	4.21
8.5							x	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94
9								3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65	3.65
9.5								x	3.42	3.42	3.42	3.42	3.42	3.42	3.42	3.42
10									3.18	3.18	3.18	3.18	3.18	3.18	3.18	3.18
10.5									x	3.01	3.01	3.01	3.01	3.01	3.01	3.01
11										2.84	2.84	2.84	2.84	2.84	2.84	2.84
11.5										x	2.68	2.68	2.68	2.68	2.68	2.68
12											2.51	2.51	2.51	2.51	2.51	2.51
12.5												x	2.33	2.33	2.33	2.33
13													2.15	2.15	2.15	2.15
13.5													x	2.10	2.10	2.10
14														2.04	2.04	2.04
14.5														x	1.99	1.99
15															1.94	1.94
15.5															x	1.82
16																1.70

LIFTING FROM RHINO LUG (8t CAPACITY):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 10 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	7.93	7.93	7.93	7.93	7.93	7.93	7.93	7.93	7.93							
4.5		x	7.37	7.37	7.37	7.37	7.37	7.37	7.37	7.37						
5			6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40	6.40				
5.5			x	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81	5.81			
6				5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23	5.23		
6.5				x	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83
7					4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43
7.5					x	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04	4.04
8						3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66	3.66
8.5							x	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
9								3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16	3.16
9.5								x	2.96	2.96	2.96	2.96	2.96	2.96	2.96	2.96
10									2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
10.5									x	2.62	2.62	2.62	2.62	2.62	2.62	2.62
11										2.47	2.47	2.47	2.47	2.47	2.47	2.47
11.5										x	2.32	2.32	2.32	2.32	2.32	2.32
12											2.17	2.17	2.17	2.17	2.17	2.17
12.5												x	2.03	2.03	2.03	2.03
13													1.89	1.89	1.89	1.89
13.5													x	1.84	1.84	1.84
14														1.79	1.79	1.79
14.5														x	1.73	1.73
15															1.67	1.67
15.5															x	1.58
16																1.49

LIFTING FROM RHINO LUG (8t CAPACITY):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 10 **deg**

Boom Len Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00							
4.5		x	7.92	7.92	7.92	7.92	7.92	7.92	7.92	7.92						
5			7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20	7.20				
5.5			x	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54	6.54			
6				5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88	5.88		
6.5				x	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43	5.43
7					4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98	4.98
7.5					x	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55	4.55
8						4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11	4.11
8.5							x	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
9								3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55	3.55
9.5								x	3.33	3.33	3.33	3.33	3.33	3.33	3.33	3.33
10									3.12	3.12	3.12	3.12	3.12	3.12	3.12	3.12
10.5									x	2.95	2.95	2.95	2.95	2.95	2.95	2.95
11										2.78	2.78	2.78	2.78	2.78	2.78	2.78
11.5										x	2.61	2.61	2.61	2.61	2.61	2.61
12											2.44	2.44	2.44	2.44	2.44	2.44
12.5												x	2.28	2.28	2.28	2.28
13													2.12	2.12	2.12	2.12
13.5													x	2.07	2.07	2.07
14														2.01	2.01	2.01
14.5														x	1.94	1.94
15															1.88	1.88
15.5															x	1.78
16																1.67

LIFTING FROM RHINO LUG (8t CAPACITY):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 20 **deg**

Boom Len Radius	**6.6**	**7**	**8**	**9**	**10**	**10.6**	**11**	**12**	**13**	**14**	**14.6**	**15**	**16**	**17**	**18**	**18.6**
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79	7.79							
4.5		x	7.11	7.11	7.11	7.11	7.11	7.11	7.11	7.11						
5			6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20	6.20				
5.5			x	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64	5.64			
6				5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09	5.09		
6.5				x	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69	4.69
7					4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
7.5					x	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93	3.93
8						3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57	3.57
8.5							x	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30	3.30
9								3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07	3.07
9.5								x	2.89	2.89	2.89	2.89	2.89	2.89	2.89	2.89
10									2.71	2.71	2.71	2.71	2.71	2.71	2.71	2.71
10.5									x	2.56	2.56	2.56	2.56	2.56	2.56	2.56
11										2.41	2.41	2.41	2.41	2.41	2.41	2.41
11.5										x	2.26	2.26	2.26	2.26	2.26	2.26
12											2.11	2.11	2.11	2.11	2.11	2.11
12.5												x	1.99	1.99	1.99	1.99
13													1.86	1.86	1.86	1.86
13.5													x	1.81	1.81	1.81
14														1.76	1.76	1.76
14.5														x	1.69	1.69
15															1.61	1.61
15.5															x	1.54
16																1.46

LIFTING FROM RHINO LUG (8t CAPACITY):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 20 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00							
4.5		x	7.75	7.75	7.75	7.75	7.75	7.75	7.75	7.75						
5			6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98	6.98				
5.5			x	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35	6.35			
6				5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72	5.72		
6.5				x	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27	5.27
7					4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82	4.82
7.5					x	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42	4.42
8						4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02	4.02
8.5							x	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71	3.71
9								3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46	3.46
9.5								x	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25
10									3.05	3.05	3.05	3.05	3.05	3.05	3.05	3.05
10.5									x	2.88	2.88	2.88	2.88	2.88	2.88	2.88
11										2.72	2.72	2.72	2.72	2.72	2.72	2.72
11.5										x	2.55	2.55	2.55	2.55	2.55	2.55
12											2.38	2.38	2.38	2.38	2.38	2.38
12.5												x	2.23	2.23	2.23	2.23
13													2.09	2.09	2.09	2.09
13.5													x	2.03	2.03	2.03
14														1.98	1.98	1.98
14.5														x	1.90	1.90
15															1.82	1.82
15.5															x	1.73
16																1.64

LIFTING FROM RHINO LUG (8t CAPACITY):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 30 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	7.64	7.64	7.64	7.64	7.64	7.64	7.64	7.64	7.64							
4.5		x	6.86	6.86	6.86	6.86	6.86	6.86	6.86	6.86						
5			6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00	6.00				
5.5			x	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47			
6				4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94	4.94		
6.5				x	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54	4.54
7					4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14	4.14
7.5					x	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81	3.81
8						3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
8.5							x	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20	3.20
9								2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
9.5								x	2.82	2.82	2.82	2.82	2.82	2.82	2.82	2.82
10									2.66	2.66	2.66	2.66	2.66	2.66	2.66	2.66
10.5									x	2.51	2.51	2.51	2.51	2.51	2.51	2.51
11										2.36	2.36	2.36	2.36	2.36	2.36	2.36
11.5										x	2.21	2.21	2.21	2.21	2.21	2.21
12											2.06	2.06	2.06	2.06	2.06	2.06
12.5												x	1.94	1.94	1.94	1.94
13													1.83	1.83	1.83	1.83
13.5													x	1.78	1.78	1.78
14														1.73	1.73	1.73
14.5														x	1.64	1.64
15															1.56	1.56
15.5															x	1.49
16																1.43

LIFTING FROM RHINO LUG (8t CAPACITY):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 30 **deg**

Boom Len Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00							
4.5		x	7.59	7.59	7.59	7.59	7.59	7.59	7.59	7.59						
5			6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75	6.75				
5.5			x	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16	6.16			
6				5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56	5.56		
6.5				x	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11	5.11
7					4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66	4.66
7.5					x	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29	4.29
8						3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92	3.92
8.5							x	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60	3.60
9								3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36	3.36
9.5								x	3.17	3.17	3.17	3.17	3.17	3.17	3.17	3.17
10									2.99	2.99	2.99	2.99	2.99	2.99	2.99	2.99
10.5									x	2.82	2.82	2.82	2.82	2.82	2.82	2.82
11										2.65	2.65	2.65	2.65	2.65	2.65	2.65
11.5										x	2.48	2.48	2.48	2.48	2.48	2.48
12											2.31	2.31	2.31	2.31	2.31	2.31
12.5												x	2.19	2.19	2.19	2.19
13													2.06	2.06	2.06	2.06
13.5													x	2.00	2.00	2.00
14														1.94	1.94	1.94
14.5														x	1.85	1.85
15															1.75	1.75
15.5															x	1.68
16																1.61

LIFTING FROM RHINO LUG (8t CAPACITY):

66.7% Chart

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 40 **deg**

Boom Len / Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50	7.50							
4.5		x	6.60	6.60	6.60	6.60	6.60	6.60	6.60	6.60						
5			5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80	5.80				
5.5			x	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30	5.30			
6				4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80	4.80		
6.5				x	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40	4.40
7					4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00	4.00
7.5					x	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70	3.70
8						3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40	3.40
8.5							x	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10	3.10
9								2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90	2.90
9.5								x	2.75	2.75	2.75	2.75	2.75	2.75	2.75	2.75
10									2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60
10.5									x	2.45	2.45	2.45	2.45	2.45	2.45	2.45
11										2.30	2.30	2.30	2.30	2.30	2.30	2.30
11.5										x	2.15	2.15	2.15	2.15	2.15	2.15
12											2.00	2.00	2.00	2.00	2.00	2.00
12.5												x	1.90	1.90	1.90	1.90
13													1.80	1.80	1.80	1.80
13.5													x	1.75	1.75	1.75
14														1.70	1.70	1.70
14.5														x	1.60	1.60
15															1.50	1.50
15.5															x	1.45
16																1.40

LIFTING FROM RHINO LUG (8t CAPACITY):

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

The articulation charts below are calculated based off a linear interpolation between the 5deg and 40deg OEM charts

Articulation: 40 **deg**

Boom Len Radius	6.6	7	8	9	10	10.6	11	12	13	14	14.6	15	16	17	18	18.6
1.6	8.00	8.00	8.00													
2	8.00	8.00	8.00	8.00												
2.5	8.00	8.00	8.00	8.00	8.00	8.00										
3	8.00	8.00	8.00	8.00	8.00	8.00	8.00									
3.5	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00								
4	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00							
4.5		x	7.43	7.43	7.43	7.43	7.43	7.43	7.43	7.43						
5			6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53	6.53				
5.5			x	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96	5.96			
6				5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40	5.40		
6.5				x	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95	4.95
7					4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50	4.50
7.5					x	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16	4.16
8						3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83	3.83
8.5							x	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49
9								3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26	3.26
9.5								x	3.09	3.09	3.09	3.09	3.09	3.09	3.09	3.09
10									2.93	2.93	2.93	2.93	2.93	2.93	2.93	2.93
10.5									x	2.76	2.76	2.76	2.76	2.76	2.76	2.76
11										2.59	2.59	2.59	2.59	2.59	2.59	2.59
11.5										x	2.42	2.42	2.42	2.42	2.42	2.42
12											2.25	2.25	2.25	2.25	2.25	2.25
12.5												x	2.14	2.14	2.14	2.14
13													2.03	2.03	2.03	2.03
13.5													x	1.97	1.97	1.97
14														1.91	1.91	1.91
14.5														x	1.80	1.80
15															1.69	1.69
15.5															x	1.63
16																1.58

LIFTING FROM WINCH - FLY JIB:

66.7% Chart

Articulation: 40 deg

Boom angle [deg]	SWL [t]	Max. Radius
60	1.30	8.4
50	1.15	11.3
40	0.97	14.1
30	0.85	16.2
20	0.79	17.8
10	0.75	18.8
0	0.75	19.1
-8	0.75	19.0

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

Articulation: 40 deg

Boom angle [deg]	SWL [t]	Max. Radius
60	1.46	8.4
50	1.29	11.3
40	1.09	14.1
30	0.95	16.2
20	0.88	17.8
10	0.84	18.8
0	0.84	19.1
-8	0.84	19.0

LIFTING FROM BOOM LUGS:

66.7% Chart

Articulation: **5** **deg (MAX)**

Boom Length Radius	BOOM 1 LUG	BOOM 2 LUG
<1.3	20.00	
1.3	18.00	
1.6	15.00	
2	12.30	
2.66	10.90	10.90
3		8.00
4		8.00

75% Chart - Calculated using the 66.7% chart with a 12.5% factor applied

Articulation: **5** **deg (MAX)**

Boom Length Radius	BOOM 1 LUG	BOOM 2 LUG
<1.3	20.00	
1.3	20.00	
1.6	16.88	
2	13.84	
2.66	12.26	12.26
3		9.00
4		9.00