



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

ROMA

07 4622 5522
8 Wormwell Drive, Roma QLD 4455

GOLD COAST

07 5593 4688
9 Kimberley Rd, Burleigh Heads, QLD, 4220

SUNSHINE COAST

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

GLADSTONE

07 4972 9326
7 Red Cover Rd, Gladstone, QLD, 4680

TOWNSVILLE

07 4779 4088
16 Mackley St, Garbutt QLD 4814

ROCKHAMPTON

07 4939 1095
371 Leichhardt St, Rockhampton QLD, 4700

MACKAY

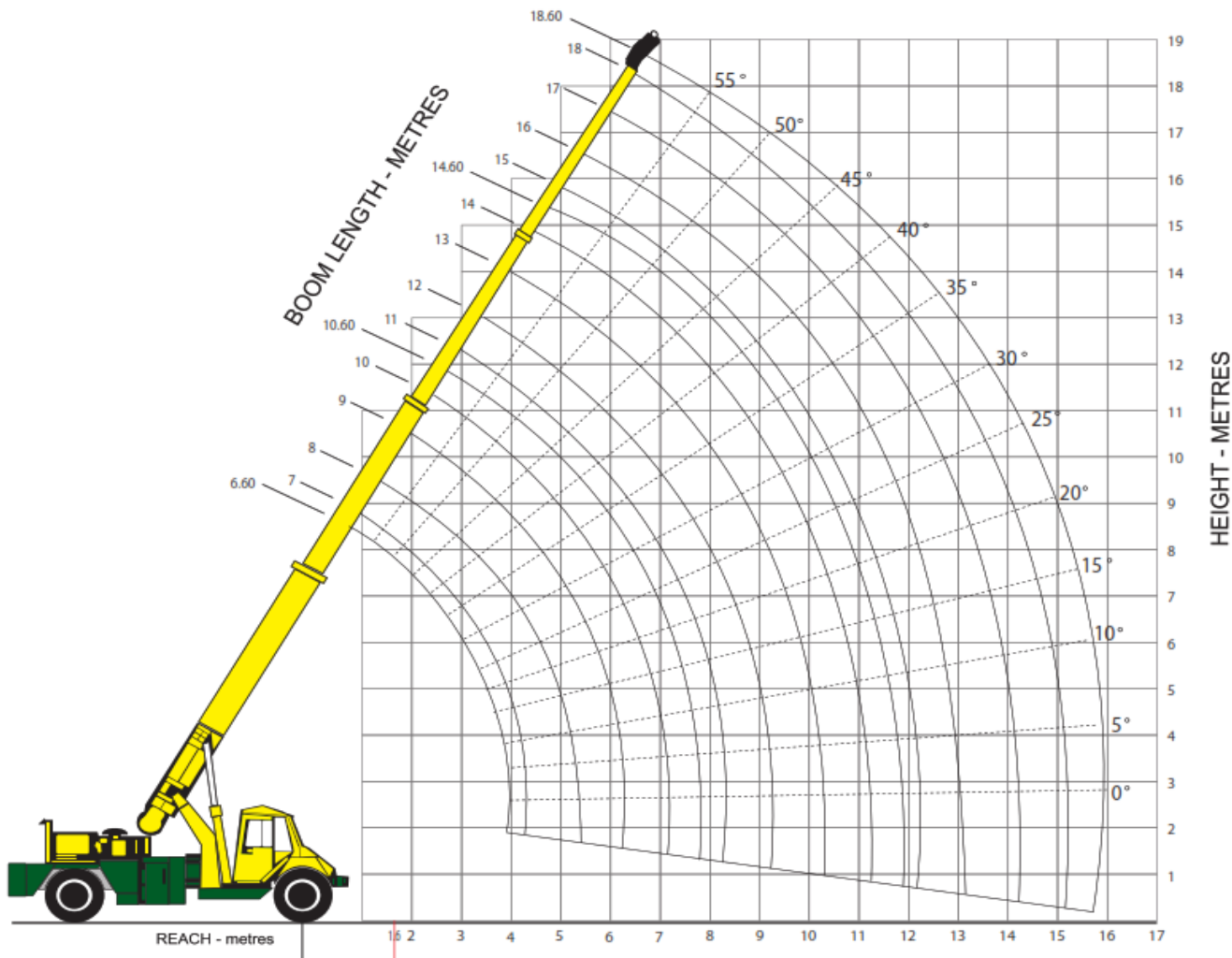
07 4952 6998
135 Diesel Drive, Paget QLD 4740



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 mobilising 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 $\varnothing 16$ 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
14															1.81	1.81
14.5															x	1.77
15																1.73
15.5																x
16																1.62
																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	6.73		
6				6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	6.04	
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
14															2.04	2.04
14.5															x	1.99
15																1.94
15.5																x
16																1.82
																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
14															1.79	1.79
14.5															x	1.73
15																1.67
15.5																x
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
14															2.01	2.01
14.5															x	1.94
15																1.88
15.5																x
16																1.78
																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	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
14															1.76	1.76
14.5															x	1.69
15																1.61
15.5																x
16																1.54
																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
14															1.98	1.98
14.5															x	1.90
15																1.82
15.5																x
16																1.73
																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
14															1.94	1.94
14.5															x	1.85
15																1.75
15.5																x
16																1.68
																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
14															1.70	1.70
14.5															x	1.60
15																1.50
15.5																x
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	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	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
14															1.91	1.91
14.5															x	1.80
15																1.69
15.5																x
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
14															2.04	2.04
14.5															x	1.99
15																1.94
15.5																x
16																1.82
																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
14															1.79	1.79
14.5															x	1.73
15																1.67
15.5																x
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
14															2.01	2.01
14.5															x	1.94
15																1.88
15.5																x
16																1.78
																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
14															1.76	1.76
14.5															x	1.69
15																1.61
15.5																x
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
14															1.98	1.98
14.5															x	1.90
15																1.82
15.5																x
16																1.73
																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
14															1.73	1.73
14.5															x	1.64
15																1.56
15.5																x
16																1.49
																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
14															1.94	1.94
14.5															x	1.85
15																1.75
15.5																x
16																1.68
																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
14															1.70	1.70
14.5															x	1.60
15																1.50
15.5																x
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
14															1.91	1.91
14.5															x	1.80
15																1.69
15.5																x
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



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Client:
Project:
Title

Matherson Crane Hire
Variable Slew Position Chart
Calculation

Document: 00581-001-C001A
Date: 2/02/2021
Author: DV
Approved: JG

LIFTING FROM BOOM LUGS:

66.7% Chart

Articulation: 5 deg (MAX)

Boom Length Radius	<u>BOOM 1 LUG</u>	<u>BOOM 2 LUG</u>
<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	<u>BOOM 1 LUG</u>	<u>BOOM 2 LUG</u>
<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