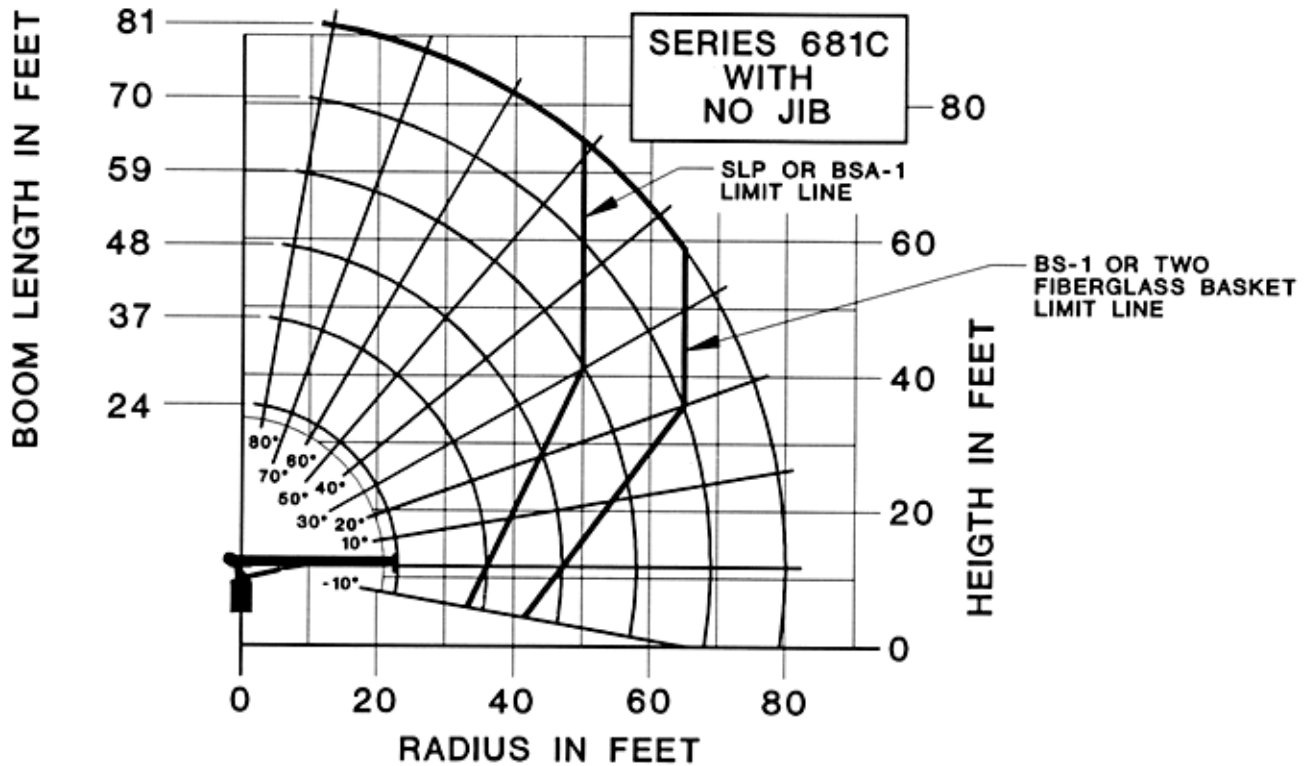




## LIFTING CHARTS - Boom Trucks

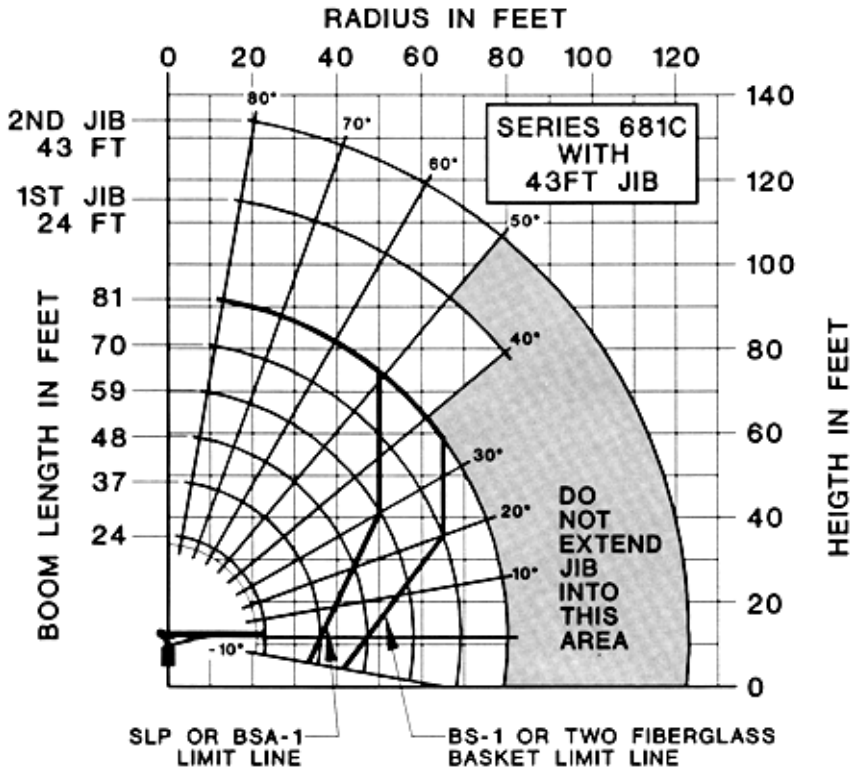
### NATIONAL MODEL 681C - 17 TON CAPACITY



### Load Ratings

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	24FT BOOM (LBS)	LOADED BOOM ANGLE	37FT BOOM (LBS)	LOADED BOOM ANGLE	48FT BOOM (LBS)	LOADED BOOM ANGLE	59FT BOOM (LBS)	LOADED BOOM ANGLE	70FT BOOM (LBS)	LOADED BOOM ANGLE	81FT BOOM (LBS)	LOADLINE EQUIPMENT DEDUCT
4.75	79	34,000											
8	69.5	22,500	78	19,600									DOWNHAUL WEIGHT = 150
10	64	18,700	74.5	16,200	78.5	14,800							ONE SHEAVE BLOCK = 200
12	58	16,100	71	13,900	76	12,400	79.5	11,500					TWO SHEAVE BLOCK = 355
14	52	14,300	67.5	12,200	73.5	10,900	77	9,800	80	9,200			
16	45.5	12,700	64	10,900	71	9,700	75	8,800	78	8,000			
20	28.5	10,100	57	9,000	66	8,000	71.5	7,300	75	6,800	77	6,500	
25			47.5	7,500	59.5	6,600	66.5	6,000	70.5	5,400	73.5	5,200	
30			35.5	6,200	52	5,500	60	5,000	66.5	4,500	70	4,400	
35			16	4,800	43.5	4,700	55	4,300	61.5	3,900	66	3,700	
40					33.5	4,000	48.5	3,700	56.5	3,400	62	3,200	
45					19	3,250	41	3,200	51.5	2,900	58	2,800	
50							32.5	2,750	45.5	2,600	53.5	2,450	
55							20.5	2,300	39.5	2,200	48.5	2,100	
60									32	1,850	43.5	1,800	
65									22	1,550	37.5	1,550	
70											31	1,300	
75											22.5	1,050	
80											3.5	550	
	0	6,400	0	3,600	0	2,250	0	1,400	0	800			

# STERLING CRANE



**NOTE:**

1. Operate with jib by radius When main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib-capacities at any reduced boom lengths.

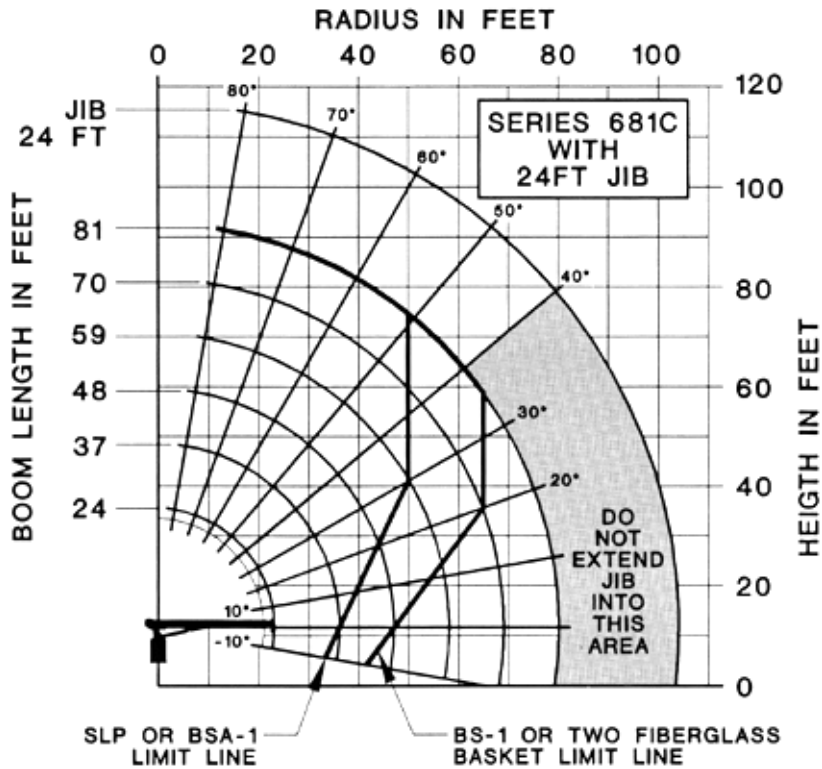
**Jib Load Ratings**

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	24FT JIB (LBS)	LOADED BOOM ANGLE	43FT JIB (LBS)
20	78	3,200		
25	77.5	2,800	79.5	2,000
30	74.5	2,500	77.5	1,700
35	72	2,200	75	1,500
40	69	1,900	73	1,300
45	66	1,600	70.5	1,100
50	63	1,400	68	1,000
55	60	1,200	65.5	900
60	57	1,000	63	800
65	53.5	800	60.5	700
70	50	700	57.5	600
75	46	600		

**Boom Load Ratings**

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	24FT BOOM (LBS)	LOADED BOOM ANGLE	37FT BOOM (LBS)	LOADED BOOM ANGLE	48FT BOOM (LBS)	LOADED BOOM ANGLE	59FT BOOM (LBS)	LOADED BOOM ANGLE	70FT BOOM (LBS)	LOADED BOOM ANGLE	81FT BOOM (LBS)	LOADLINE EQUIPMENT DEDUCT
4.75	78.5	34,000											DOWNHAUL WEIGHT = 150 ONE SHEAVE BLOCK = 200 TWO SHEAVE BLOCK = 355
8	69.5	22,050	77.5	19,350									
10	64	18,250	74.5	15,850	78.5	14,350							
12	58	15,650	71	13,600	76	12,150	79	10,950					
14	52	13,850	67.5	11,900	73.5	10,650	77	9,550	79.5	8,800			
16	45.5	12,350	64	10,600	71	9,450	75	8,500	78	7,800			
20	28.5	9,750	56.5	8,700	65.5	7,750	71	7,050	74.5	6,400	77	6,150	
25			47	7,250	59	6,400	66	5,700	70.5	5,200	73.5	4,950	
30			35	5,950	51.5	5,350	60.5	4,800	66	4,350	69.5	4,100	
35			15	4,500	43.5	4,550	54.5	4,100	61	3,750	65.5	3,500	
40					33	3,850	48	3,550	56.5	3,250	61.5	3,050	
45					18	3,100	40.5	3,100	51	2,850	57.5	2,650	
50							32	2,675	45.5	2,500	53	2,350	
55							20	2,200	39	2,200	48	2,050	
60									31.5	1,850	43	1,800	
65									21.5	1,550	37.5	1,550	
70											30.5	1,300	
75											22	1,050	
80											3.5	550	
	0	6,400	0	3,450	0	2,150	0	1,350	0	800			

# STERLING CRANE



**NOTE:**

1. Operate with jib by radius When main boom is fully extended. If necessary increase boom angle to maintain loaded radius.
2. Operate with jib by boom angle when main boom is not fully extended. Do not exceed rated jib-capacities at any reduced boom lengths.


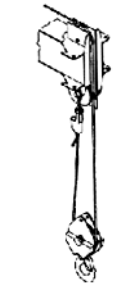



### Jib Load Ratings

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	24FT JIB (LBS)
20	78	3,200
25	77.5	2,800
30	74.5	2,500
35	72	2,200
40	69	1,900
45	66	1,600
50	63	1,400
55	60	1,200
60	57	1,000
65	53.5	800
70	50	700
75	46	600

### Boom Load Ratings

LOAD RADIUS (FEET)	LOADED BOOM ANGLE	24FT BOOM (LBS)	LOADED BOOM ANGLE	37FT BOOM (LBS)	LOADED BOOM ANGLE	48FT BOOM (LBS)	LOADED BOOM ANGLE	59FT BOOM (LBS)	LOADED BOOM ANGLE	70FT BOOM (LBS)	LOADED BOOM ANGLE	81FT BOOM (LBS)	LOADLINE EQUIPMENT DEDUCT
4.75	78.5	34,000											DOWNHAUL WEIGHT = 150 ONE SHEAVE BLOCK = 200 TWO SHEAVE BLOCK = 355
8	69.5	22,050	77.5	19,350									
10	64	18,250	74.5	15,850	78.5	14,350							
12	58	15,650	71	13,600	76	12,150	79	10,950					
14	52	13,850	67.5	11,900	73.5	10,650	77	9,550	79.5	8,800			
16	45.5	12,350	64	10,600	71	9,450	75	8,500	78	7,800			
20	28.5	9,750	56.5	8,700	65.5	7,750	71	7,050	74.5	6,400	77	6,150	
25			47	7,250	59	6,400	66	5,700	70.5	5,200	73.5	4,950	
30			35	5,950	51.5	5,350	60.5	4,800	66	4,350	69.5	4,100	
35			15	4,500	43.5	4,550	54.5	4,100	61	3,750	65.5	3,500	
40					33	3,850	48	3,550	56.5	3,250	61.5	3,050	
45					18	3,100	40.5	3,100	51	2,850	57.5	2,650	
50							32	2,675	45.5	2,500	53	2,350	
55							20	2,200	39	2,200	48	2,050	
60									31.5	1,850	43	1,800	
65									21.5	1,550	37.5	1,550	
70											30.5	1,300	
75											22	1,050	
80											3.5	550	
	0	6,400	0	3,450	0	2,150	0	1,350	0	800			

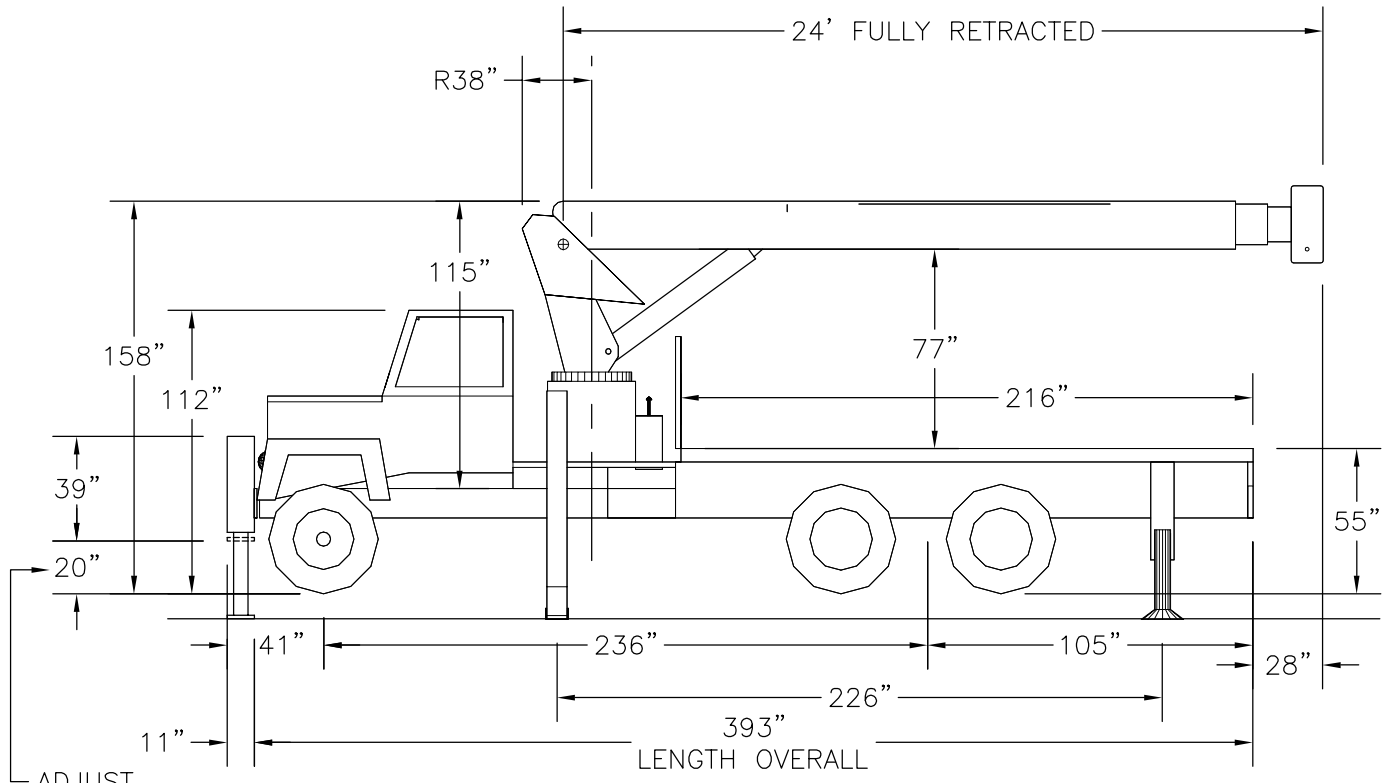
# STERLING CRANE

NATIONAL SERIES 600C WINCH DATA			1 Part Line	2 Part Line	3 Part Line	4 Part Line	5 Part Line
<b>CAUTION:</b> <input type="checkbox"/> Do not deadhead lineblock against boom tip when extending boom. <input type="checkbox"/> Keep at least three wraps of loadline on drum at all times. <input type="checkbox"/> Use only 9/16" diameter rotation resistant cable with 38,500 pounds breaking strength on this machine. <input type="checkbox"/> Maximum capacity with optional "Burst-of-Speed" is 3,000 lbs.							
Winch	Cable Supplied	Average Breaking Strength	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed	Lift and Speed
Standard Planetary Winch	9/16" diameter rotation resistant 19x7 IWRC	38,500 lbs.	7,700 lbs. 164 fpm	15,400 lbs. 82 fpm	23,100 lbs. 55 fpm	30,800 lbs. 41 fpm	34,000 lbs. 33 fpm
	Optional 9/16" diameter 6 x 25 IWRC	29,750 lbs.	7,700 lbs. 164 fpm	15,400 lbs. 82 fpm	23,100 lbs. 55 fpm	30,800 lbs. 41 fpm	34,000 lbs. 33 fpm
With Optional Burst-of-Speed Feature	Same as corresponding cable data shown above.		3,000 lbs. 265 fpm	6,000 lbs. 133 fpm	9,000 lbs. 88 fpm	12,000 lbs. 66 fpm	15,000 lbs. 53 fpm

All winch pulls and speeds are shown on the fourth layer. Winch pulls would increase on the first, second and third layers. Winch line speeds would decrease on the first, second and third layers. Winch line pulls may be limited by the winch capacity or the cable safety factor. These are shown below:

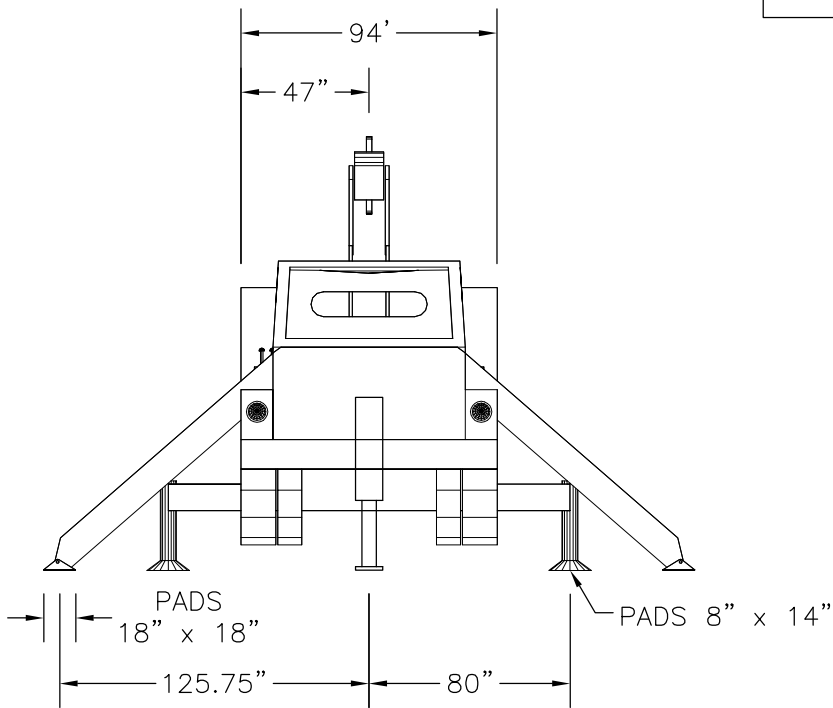
# STERLING CRANE

## DIMENSIONS



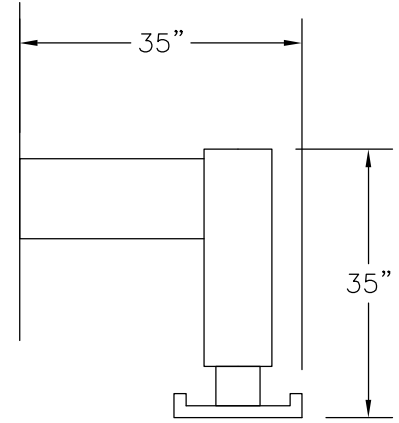
ADJUST MANUALLY 15"-20"

BOOM TRUCK =	OVERHANG	DECK
11-7-1000	N/A	18'
11-7-1001	N/A	18'



FRONT STABILIZER

REAR STABILIZER



REAR STABILIZER 26" STROKE