LIFTING CHARTS - Crawler Cranes

KOBELCO MODEL CK1600-II - 160 TON CAPACITY

Main boom rated loads in pounds Counterweight: 116,840 lbs (53,000 kg) Carbody weight: 22,050 lbs (10,000 kg)

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Supplemental Data

- Rated loads included in the charts are the maximum allowable freely suspended loads at a given boom length, boom angle and load radius, and have been determined for the machine standing level on firm supporting surface under ideal operating conditions. The user must limit or de-rate rated loads to allow for adverse conditions (such as soft or uneven ground, out-of-level conditions, wind, side loads, pendulum action, jerking or sudden stopping of loads, inexperience of personnel, multiple machine lifts, and traveling with a load).
- 2. Rated loads do not exceed 75% of minimum tipping loads. Rated loads based on factors other than machine stability such as structural competence are shown by asterisk * in the charts.
- 3. The machine must be reeved and set-up as stated in the operation manual and all the instruction manuals if these manuals are missing, obtain replacements.
- 1) The crane must be leveled to within 1% on a firm supporting surface.
- 2) Boom backstops are required for all boom length.
- 3) Gantry must be fully raised position for all operations.
- 4) Counterweight: 116,840 lbs (53,000 kg) Refer to Fig.1.
- 5) Carbody weight: 22,050 lbs (10,000 kg) Carbody weights are fully installed.
- 4. Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- 5. Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 6. Weight of hooks, hook blocks, slings and other lifting devices are a part of the total load. Their total weight must be subtracted from the rated load to obtain the weight that can be lifted.
- 7. When lifting over boom point with jib or auxiliary sheave, rated loads for the boom must be deducted as shown below.

Jib length (ft)	Aux	40	60	80	100
Deductions (lbs)	1,250	7,055	8,010	8,965	9,920

- 8. The total load that can be lifted by jib is limited by rated jib loads.
- 9. Boom lengths for jib mounting are 90 ft (27.4 m) to 200 ft (61.0 m)

- 10. The total load that can be lifted by the auxiliary sheave is: the rated load for the boom (without auxiliary sheave installed) minus 1,250 lbs; however, the auxiliary sheave rated load should not exceed 59,000 lbs.
- 11. Boom lengths that can attach auxiliary sheave are from 50 ft (15.2 m) to 240 ft (73.2 m).
- 12. The boom should be erected over the front of the crawlers, not laterally. When lifting from or lowering to the ground the boom at length of 240 ft (73.2 m) or over, the blocks must be placed at the end of crawlers.
- 13. Least stable position is over the side.
- 14. Maximum hoist load for number of reeving parts of line for hoist rope.

Main Boom Hoist Loads

No. of Parts of Line	1	2	3	4
Maximum Loads (lbs)	29,500	59,000	88,500	118,000
No. of Parts of Line	5	6	7	8
Maximum Loads (lbs)	147,500	177,000	206,500	236,000
		1	1	1

No. of Parts of Line	9	10	11
Maximum Loads (lbs)	265,500	295,000	320,000

Jib Hoist Loads		
No. of Parts of Line	1	
Maximum Loads (lbs)	29,500	59

Auxiliary Sheave Hoist Loads

No. of Parts of Line	1	2
Maximum Loads (lbs)	29,500	59,000

- 15. Rated loads listed apply only to the machine as originally manufactured and designed by KOBELCO CRANES CO., LTD. Modifications to this machine or use of equipment other than that specified can reduce operating capacity.
- 16. Designed and rated to comply with ANSI Code B30.5.

C (6L)		C (6R)
B (5L)		B (5R)
B (4L)		B (4R)
B (3L)		B (3R)
B (2L)		B (2R)
	A (1)	

Total weight of counterweight is 116,840 lbs (53,000 kg).

Fig.1 Counterweight Arrangement

Operation of this equipment in excess of rated loads or disregard of instruction voids the warranty

STERLING CRANE

		ounterweights			carbody weig						
50 ' B	oom		60 ' B	oom		70 ' B	oom		80 ' E	oom	
Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Loa
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
15.0	79.9	320,000 *	17.0	79.6	280,000 *	19.0	79.5	251,100 *	22.0	78.6	211,800
16.0	78.7 77.5	300,100 *	18.0 19.0	78.7 77.7	266,000 * 251,900 *	20.0	78.6	238,500 * 217,100 *	24.0 26.0	77.1 75.7	190,200 172,600
17.0 18.0	77.5	282,500 * 266,800 *	20.0	76.7	231,900 239,300 *	22.0 24.0	76.9 75.3	217,100 194,600 *	28.0	75.7 74.2	172,800
19.0	75.1	252,700 *	22.0	74.7	218,000 *	26.0	73.5	176,300 *	30.0	72.7	145,500
20.0	73.9	240,100 *	24.0	72.7	197,500 *	28.0	71.8	160,900 *	32.0	71.1	134,400
22.0	71.5	218,300 *	26.0	70.7	178,300 *	30.0	70.1	147,900 *	34.0	69.6	123,000
24.0 26.0	69.1 66.5	197,700 * 177,400 *	28.0 30.0	68.6 66.5	162,200 * 148,300	32.0 34.0	68.3 66.5	134,700 123,400	36.0 38.0	68.1 66.5	113,300 105,100
28.0	64.0	160,400 *	32.0	64.4	134,900	36.0	64.7	113,700	40.0	64.9	97,800
30.0	61.4	145,900 *	34.0	62.2	123,600	38.0	62.8	105,500	45.0	60.8	83,300
32.0	58.7	133,300 *	36.0	60.0	113,900	40.0	61.0	98,300	50.0	56.6	72,300
34.0	55.9	122,100 *	38.0	57.7	105,800	45.0	56.1	83,700	55.0	52.1	63,900
36.0 38.0	53.0 50.0	112,200 * 103,300 *	40.0 45.0	55.4 49.3	98,500 83,900	50.0 55.0	50.9 45.3	72,700 64,300	60.0 65.0	47.4 42.2	56,800 51,300
40.0	46.8	95,200 *	40.0 50.0	49.0	72,000 *	60.0	39.0	57,300 *	70.0	36.3	46,700
45.0	38.0	76,900 *	55.0	34.4	60,100 *	65.0	31.7	48,700 *	75.0	29.5	40,300
90 ' B	oom		100 ' E	Boom		110 ' 1	Boom		120 ' E	Boom	
Load	Boom Boom Angle	360° Rated Load	Load Radius	Boom Boom Angle	360° Rated Load	Load Radius	Boom Boom Angle	360° Rated Load	Load Radius	Boom Boom Angle	360° Rated Lo
Load	Boom	Rated Load (lbs)	Load	Boom		Load	Boom		Load	Boom	
Load ladius (ft) 22.0	Boom Angle (deg.) 79.9	Rated Load (lbs) 207,600 *	Load Radius (ft) 24.0	Boom Angle (deg.) 79.8	Rated Load (lbs) 183,400 *	Load Radius (ft) 26.0	Boom Angle (deg.) 79.6	Rated Load (lbs) 164,200 *	Load Radius (ft) 28.0	Boom Angle (deg.) 79.5	Rated Lo (lbs) 147,000
Load adius (ft) 22.0 24.0	Boom Angle (deg.) 79.9 78.6	Rated Load (lbs) 207,600 * 186,500 *	Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 79.8 78.6	Rated Load (lbs) 183,400 * 166,400 *	Load Radius (ft) 26.0 28.0	Boom Angle (deg.) 79.6 78.6	Rated Load (lbs) 164,200 * 150,100 *	Load Radius (ft) 28.0 30.0	Boom Angle (deg.) 79.5 78.6	Rated Lo (lbs) 147,000 135,500
Load adius (ft) 22.0 24.0 26.0	Boom Angle (deg.) 79.9 78.6 77.3	Rated Load (lbs) 207,600 * 186,500 * 169,000 *	Load Radius (ft) 24.0 26.0 28.0	Boom Angle (deg.) 79.8 78.6 77.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 *	Load Radius (ft) 26.0 28.0 30.0	Boom Angle (deg.) 79.6 78.6 77.5	Rated Load (lbs) 164,200 * 150,100 * 138,200 *	Load Radius (ft) 28.0 30.0 32.0	Boom Angle (deg.) 79.5 78.6 77.6	Rated Lo (lbs) 147,000 135,500 125,600
Load adius (ft) 22.0 24.0	Boom Angle (deg.) 79.9 78.6	Rated Load (lbs) 207,600 * 186,500 *	Load Radius (ft) 24.0 26.0	Boom Angle (deg.) 79.8 78.6	Rated Load (lbs) 183,400 * 166,400 *	Load Radius (ft) 26.0 28.0	Boom Angle (deg.) 79.6 78.6	Rated Load (lbs) 164,200 * 150,100 *	Load Radius (ft) 28.0 30.0	Boom Angle (deg.) 79.5 78.6	Rated Lo (lbs) 147,000 135,500 125,600 117,000
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 *	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 *	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 34.0 36.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 *	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 122,700	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 122,700 113,000	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800 104,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 74.3 73.2 72.1	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 122,700	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200
Load (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 122,700 113,000 104,700 97,400 82,800	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800 104,700 97,400 82,800 71,800	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3	Rated Lc (lbs) 147,000 135,500 125,600 109,500 102,900 96,700 82,200 71,200 62,600 55,500
Load (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6	Rated Lc (lbs) 147,000 135,500 125,600 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000
Load (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8	Rated Lc (lbs) 147,000 135,500 125,600 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 50,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9	Rated Lc (lbs) 147,000 135,500 125,600 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200
_oad adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 50,700 46,000 41,800	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8	Rated Lc (lbs) 147,000 135,500 125,600 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800
Load (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4 39.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 56,400 50,900 46,200 42,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 50,700 46,000 41,800 38,500	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800 32,100
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 50,900 46,200	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0 37.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 56,400 50,700 46,000 41,800 38,500 35,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9 39.9	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200 32,800	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4 41.9	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800 32,100 29,900
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4 39.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 56,400 50,900 46,200 42,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 70.0 75.0 80.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 50,700 46,000 41,800 38,500	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4	Rated Lo
.oad adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 50.0 55.0 60.0 65.0 60.0 70.0 75.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4 39.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 56,400 50,900 46,200 42,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0 37.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 56,400 50,700 46,000 41,800 38,500 35,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9 39.9 35.6	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200 32,800 30,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4 41.9 38.1	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800 32,100 29,900 27,900
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4 39.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 56,400 50,900 46,200 42,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0 37.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 56,400 50,700 46,000 41,800 38,500 35,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9 39.9 35.6	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200 32,800 30,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4 41.9 38.1	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800 32,100 29,900 27,900
Load adius (ft) 22.0 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 60.0 65.0 70.0 75.0	Boom Angle (deg.) 79.9 78.6 77.3 76.0 74.6 73.3 72.0 70.6 69.3 67.9 64.4 60.8 57.0 53.1 48.9 44.4 39.6	Rated Load (lbs) 207,600 * 186,500 * 169,000 * 154,700 * 142,600 * 132,200 * 132,200 * 122,700 113,000 104,700 97,400 82,800 72,000 63,400 56,400 56,400 50,900 46,200 42,300	Load Radius (ft) 24.0 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0	Boom Angle (deg.) 79.8 78.6 77.4 76.2 75.0 73.8 72.6 71.4 70.2 67.1 63.9 60.7 57.3 53.8 50.1 46.2 42.0 37.4	Rated Load (lbs) 183,400 * 166,400 * 152,300 * 140,400 * 130,200 * 121,400 * 121,400 * 112,800 104,700 97,400 82,800 71,800 63,200 56,400 56,400 50,700 46,000 41,800 38,500 35,700	Load Radius (ft) 26.0 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0	Boom Angle (deg.) 79.6 78.6 77.5 76.4 75.4 75.4 75.4 74.3 73.2 72.1 69.3 66.5 63.6 60.6 57.5 54.4 51.1 47.6 43.9 39.9 35.6	Rated Load (lbs) 164,200 * 150,100 * 138,200 * 128,300 * 128,300 * 119,400 * 111,900 * 104,400 97,200 82,600 71,600 63,000 56,200 50,400 45,600 41,600 38,300 35,200 32,800 30,400	Load Radius (ft) 28.0 30.0 32.0 34.0 36.0 38.0 40.0 45.0 55.0 60.0 65.0 70.0 75.0 80.0 85.0 90.0 95.0 100.0	Boom Angle (deg.) 79.5 78.6 77.6 76.6 75.6 74.6 73.6 71.1 68.6 65.9 63.3 60.6 57.8 54.9 51.9 48.7 45.4 41.9 38.1	Rated Lc (lbs) 147,000 135,500 125,600 117,000 109,500 102,900 96,700 82,200 71,200 62,600 55,500 50,000 45,100 41,200 37,600 34,800 32,100 29,900 27,900

STERLING CRANE

Load Radius (ft)	Boom		140 ' E	Soom		150 ' E	Boom		160 ' E	Boom	
Radius		0000			0000			0000			0000
	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Load	Load Radius	Boom Angle	360° Rated Loa
110	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
30.0	79.5		32.0	79.4	122,100 *	34.0	79.3		34.0	80.0	110,800
30.0 32.0	79.5 78.6	134,000 * 124,100 *	32.0 34.0	79.4 78.5	122,100 * 113,500 *	34.0 36.0	79.3 78.5	112,600 * 105,100 *	34.0 36.0	80.0 79.3	103,600
34.0	78.0	124,100 115,500 *	34.0	78.5	106,200 *	38.0	78.5	98,700 *	38.0	79.5	97,000
36.0	76.7	108,200 *	38.0	76.9	99,800 *	40.0	77.0	93,000 *	40.0	77.8	91,200
38.0	75.8	101,600 *	40.0	76.0	94,100 *	45.0	75.0	81,100 *	45.0	76.0	79,500
40.0	74.9	95,600 *	45.0	73.9	81,700	50.0	73.0	70,500	50.0	74.1	70,100
45.0	72.6	82,000	50.0	71.7	70,700	55.0	71.0	61,900	55.0	72.2	61,500
50.0	70.3	70,900	55.0	69.6	62,100	60.0	69.0	54,800	60.0	70.3	54,600
55.0	67.9	62,300	60.0	67.4	55,100	65.0	66.9	49,100	65.0	68.4	48,900
60.0	65.5	55,500	65.0	65.1	49,300	70.0	64.8	44,500	70.0	66.5	44,000
65.0	63.0	49,800	70.0	62.8	44,700	75.0	62.6	40,300	75.0	64.5	40,100
70.0	60.5	44,900	75.0	60.5	40,700	80.0	60.4	37,000	80.0	62.5	36,500
75.0	57.9	41,000	80.0	58.1	37,200	85.0	58.2	33,900	85.0	60.4	33,500
80.0	55.3	37,400	85.0	55.6	34,100	90.0	55.9	31,300	90.0	58.3	30,800
85.0	52.5	34,600	90.0	53.1	31,700	95.0	53.6	29,100	95.0 100.0	56.2	28,600
90.0 95.0	49.7 46.7	31,900 29,700	95.0	50.5 47.7	29,300	100.0	51.1 48.6	26,800	100.0	54.0 51.7	26,600
95.0 100.0	40.7 43.5	29,700 27,500	100.0 105.0	47.7 44.9	27,300 25,300	105.0 110.0	46.0 46.0	25,100 23,300	105.0 110.0	49.4	24,600 23,100
105.0	43.5	25,700	110.0	44.9	23,800	115.0	40.0	23,300 22,000	115.0	49.4 47.0	23,100
110.0	36.6	24,200	115.0	38.6	22,200	120.0	40.3	20,700	120.0	44.4	20,200
115.0	32.6	22,700 *	120.0	35.2	20,900	125.0	37.2	19,400	125.0	41.8	18,900
	02.0	,	125.0	31.4	19,600 *	130.0	33.9	18,200 *	130.0	39.0	17,800
				-	-,	135.0	30.2	16,500 *	135.0	36.0	16,700
								-	140.0	32.8	15,600
170 ' E	Boom		180 ' E			190 ' E			200 ' E	Boom	
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Loa
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
36.0	79.9	102,000 *	38.0	79.8	88,400 *	40.0	79.8	88,100 *	45.0	78.8	75,100
38.0	79.2	95,600 *	40.0	79.2	88,400 *	45.0	78.2	76,400 *	50.0	77.3	66,100
40.0	78.5	89,900 *	45.0	77.6	77,600 *	50.0	76.7	67,200 *	55.0	75.9	58,800
45.0	76.8	78,200 *	50.0	75.9	68,500 *	55.0	75.1	59,900 *	60.0	74.4	52,900
50.0	75.1	69,200 *	55.0	74.3	61,000 *	60.0	73.5	53,700	65.0	72.9	47,600
55.0	73.3	61,200	60.0	72.6	54,000	65.0	72.0	48,000	70.0	71.4	42,900
60.0 65.0	71.5	54,200	65.0 70.0	70.9	48,200	70.0	70.4	43,200	75.0	69.9	38,800
	69.7 67.9	48,500 43,800	70.0 75.0	69.2 67.5	43,600 39,400	75.0 80.0	68.7 67.1	39,200 35,700	80.0 85.0	68.3 66.8	35,200 32,400
		43.000	75.0	07.5	39,400		07.1	35,700			
70.0				65.8				32 600	00 0		
70.0 75.0	66.1	39,600	80.0	65.8 64 0	36,100	85.0	65.5	32,600 29,900	90.0 95.0	65.2 63.6	29,700 27,300
70.0 75.0 80.0	66.1 64.2	39,600 36,300	80.0 85.0	64.0	36,100 33,000	85.0 90.0	65.5 63.8	29,900	95.0	63.6	27,300
70.0 75.0 80.0 85.0	66.1 64.2 62.3	39,600 36,300 33,200	80.0 85.0 90.0	64.0 62.2	36,100 33,000 30,400	85.0 90.0 95.0	65.5 63.8 62.1	29,900 27,700	95.0 100.0	63.6 62.0	27,300 25,300
70.0 75.0 80.0	66.1 64.2	39,600 36,300 33,200 30,600	80.0 85.0	64.0	36,100 33,000 30,400 27,900	85.0 90.0	65.5 63.8	29,900 27,700 25,500	95.0	63.6	27,300 25,300 23,300
70.0 75.0 80.0 85.0 90.0	66.1 64.2 62.3 60.4	39,600 36,300 33,200	80.0 85.0 90.0 95.0	64.0 62.2 60.4	36,100 33,000 30,400	85.0 90.0 95.0 100.0	65.5 63.8 62.1 60.4	29,900 27,700	95.0 100.0 105.0	63.6 62.0 60.3	27,300 25,300
70.0 75.0 80.0 85.0 90.0 95.0	66.1 64.2 62.3 60.4 58.4	39,600 36,300 33,200 30,600 28,200	80.0 85.0 90.0 95.0 100.0	64.0 62.2 60.4 58.5	36,100 33,000 30,400 27,900 26,000	85.0 90.0 95.0 100.0 105.0	65.5 63.8 62.1 60.4 58.6	29,900 27,700 25,500 23,800	95.0 100.0 105.0 110.0	63.6 62.0 60.3 58.7	27,300 25,300 23,300 21,800
70.0 75.0 80.0 85.0 90.0 95.0 100.0	66.1 64.2 62.3 60.4 58.4 56.4	39,600 36,300 33,200 30,600 28,200 26,200 24,400 22,700	80.0 85.0 90.0 95.0 100.0 105.0	64.0 62.2 60.4 58.5 56.6	36,100 33,000 27,900 26,000 24,000 22,400 20,900	85.0 90.0 95.0 100.0 105.0 110.0	65.5 63.8 62.1 60.4 58.6 56.8	29,900 27,700 25,500 23,800 22,000 20,500 19,100	95.0 100.0 105.0 110.0 115.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5	27,300 25,300 23,300 21,800 20,200 18,700 17,600
70.0 75.0 80.0 85.0 90.0 95.0 100.0 105.0	66.1 64.2 62.3 60.4 58.4 56.4 56.4	39,600 36,300 33,200 30,600 28,200 26,200 24,400	80.0 85.0 90.0 95.0 100.0 105.0 110.0	64.0 62.2 60.4 58.5 56.6 54.7	36,100 33,000 30,400 27,900 26,000 24,000 22,400	85.0 90.0 95.0 100.0 105.0 110.0 115.0	65.5 63.8 62.1 60.4 58.6 56.8 55.0	29,900 27,700 25,500 23,800 22,000 20,500	95.0 100.0 105.0 110.0 115.0 120.0	63.6 62.0 60.3 58.7 57.0 55.2	27,300 25,300 23,300 21,800 20,200 18,700
70.0 75.0 80.0 90.0 95.0 100.0 105.0 115.0 120.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8	39,600 36,300 33,200 30,600 28,200 26,200 24,400 22,700 21,100 19,800	80.0 85.0 90.0 95.0 100.0 115.0 115.0 120.0 125.0	64.0 62.2 60.4 58.5 56.6 54.7 52.7 50.6 48.5	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200	85.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0	65.5 63.8 62.1 60.4 58.6 56.8 55.0 53.1 51.2 49.2	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700	95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8	27,300 25,300 23,300 20,200 18,700 17,600 16,500 15,400
70.0 75.0 80.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8 45.5	39,600 36,300 33,200 30,600 28,200 26,200 24,400 22,700 21,100 19,800 18,700	80.0 85.0 90.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0	64.0 62.2 60.4 58.5 56.6 54.7 52.7 50.6 48.5 46.4	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100	85.0 90.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0	65.5 63.8 62.1 60.4 58.6 56.8 55.0 53.1 51.2 49.2 47.2	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800	95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9	27,300 25,300 23,300 20,200 18,700 17,600 16,500 15,400 14,300
70.0 75.0 80.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8 45.5 43.0	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400	80.0 85.0 90.0 100.0 105.0 115.0 120.0 125.0 130.0 135.0	64.0 62.2 60.4 58.5 56.6 54.7 52.7 50.6 48.5 46.4 44.1	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000	85.0 90.0 95.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0	65.5 63.8 62.1 60.4 58.6 55.0 53.1 51.2 49.2 47.2 45.0	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700	95.0 100.0 110.0 115.0 125.0 130.0 135.0 140.0 145.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9	27,300 25,300 23,300 20,200 18,700 17,600 16,500 15,400 14,300 13,400
70.0 75.0 80.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8 45.5 43.0 40.5	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400 16,500	80.0 85.0 90.0 100.0 105.0 110.0 120.0 125.0 130.0 135.0 140.0	64.0 62.2 60.4 58.5 56.6 54.7 52.7 50.6 48.5 46.4 44.1 41.7	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000 15,200	85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0	65.5 63.8 62.1 60.4 58.6 55.0 53.1 51.2 49.2 47.2 45.0 42.9	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700 13,800	95.0 100.0 110.0 115.0 125.0 130.0 135.0 140.0 145.0 150.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9 43.8	27,300 25,300 23,300 20,200 18,700 17,600 16,500 15,400 14,300 13,400 12,700
70.0 75.0 80.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0	66.1 64.2 62.3 60.4 58.4 56.4 52.2 50.1 47.8 45.5 43.0 40.5 37.8	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400 16,500 15,400	80.0 85.0 90.0 100.0 105.0 110.0 125.0 125.0 130.0 135.0 140.0 145.0	64.0 62.2 60.4 58.5 56.6 54.7 52.7 50.6 48.5 46.4 44.1 41.7 39.3	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000 15,200 14,300	85.0 90.0 95.0 100.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0 150.0	65.5 63.8 62.1 60.4 58.6 55.0 53.1 51.2 49.2 47.2 45.0 42.9 40.6	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700 13,800 13,000	95.0 100.0 115.0 125.0 125.0 130.0 135.0 140.0 145.0 155.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9 43.8 41.7	27,300 25,300 23,300 20,200 18,700 16,500 15,400 14,300 13,400 12,700 11,900
70.0 75.0 80.0 90.0 95.0 100.0 105.0 110.0 120.0 125.0 130.0 135.0 140.0 145.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8 45.5 43.0 40.5 37.8 34.9	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400 16,500 15,400 14,500	80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 135.0 140.0 145.0 150.0	$\begin{array}{c} 64.0\\ 62.2\\ 60.4\\ 58.5\\ 56.6\\ 54.7\\ 52.7\\ 50.6\\ 48.5\\ 46.4\\ 44.1\\ 41.7\\ 39.3\\ 36.6 \end{array}$	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000 15,200 14,300 13,400 *	85.0 90.0 95.0 100.0 110.0 115.0 125.0 135.0 140.0 145.0 155.0	$\begin{array}{c} 65.5\\ 63.8\\ 62.1\\ 60.4\\ 58.6\\ 56.8\\ 55.0\\ 53.1\\ 51.2\\ 49.2\\ 47.2\\ 45.0\\ 42.9\\ 40.6\\ 38.2\end{array}$	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700 13,800 13,000 12,300 *	95.0 100.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0 150.0 155.0 160.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9 43.8 41.7 39.5	27,300 25,300 23,300 20,200 18,700 16,500 15,400 14,300 13,400 12,700 11,900 11,200
70.0 75.0 80.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0	66.1 64.2 62.3 60.4 58.4 56.4 52.2 50.1 47.8 45.5 43.0 40.5 37.8	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400 16,500 15,400	80.0 90.0 95.0 100.0 105.0 110.0 125.0 130.0 135.0 140.0 145.0 155.0	$\begin{array}{c} 64.0\\ 62.2\\ 60.4\\ 58.5\\ 56.6\\ 54.7\\ 52.7\\ 50.6\\ 48.5\\ 46.4\\ 44.1\\ 41.7\\ 39.3\\ 36.6\\ 33.8\end{array}$	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000 15,200 14,300 13,400 * 12,300 *	85.0 90.0 95.0 100.0 110.0 115.0 125.0 130.0 135.0 140.0 145.0 155.0 160.0	$\begin{array}{c} 65.5\\ 63.8\\ 62.1\\ 60.4\\ 58.6\\ 56.8\\ 55.0\\ 53.1\\ 51.2\\ 49.2\\ 47.2\\ 45.0\\ 42.9\\ 40.6\\ 38.2\\ 35.6\end{array}$	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700 13,800 13,000 12,300 * 11,200 *	95.0 100.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0 155.0 160.0 165.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9 43.8 41.7 39.5 37.1	27,300 25,300 23,300 21,800 20,200 18,700 16,500 15,400 14,300 13,400 12,700 11,900 11,200 10,300
70.0 75.0 80.0 90.0 95.0 100.0 105.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0	66.1 64.2 62.3 60.4 58.4 56.4 54.4 52.2 50.1 47.8 45.5 43.0 40.5 37.8 34.9	39,600 36,300 33,200 28,200 26,200 24,400 22,700 21,100 19,800 18,700 17,400 16,500 15,400 14,500	80.0 85.0 90.0 95.0 100.0 110.0 115.0 120.0 135.0 140.0 145.0 150.0	$\begin{array}{c} 64.0\\ 62.2\\ 60.4\\ 58.5\\ 56.6\\ 54.7\\ 52.7\\ 50.6\\ 48.5\\ 46.4\\ 44.1\\ 41.7\\ 39.3\\ 36.6 \end{array}$	36,100 33,000 27,900 26,000 24,000 22,400 20,900 19,600 18,200 17,100 16,000 15,200 14,300 13,400 *	85.0 90.0 95.0 100.0 110.0 115.0 125.0 135.0 140.0 145.0 155.0	$\begin{array}{c} 65.5\\ 63.8\\ 62.1\\ 60.4\\ 58.6\\ 56.8\\ 55.0\\ 53.1\\ 51.2\\ 49.2\\ 47.2\\ 45.0\\ 42.9\\ 40.6\\ 38.2\end{array}$	29,900 27,700 25,500 23,800 22,000 20,500 19,100 18,000 16,700 15,800 14,700 13,800 13,000 12,300 *	95.0 100.0 110.0 115.0 120.0 125.0 130.0 135.0 140.0 145.0 150.0 160.0	63.6 62.0 60.3 58.7 57.0 55.2 53.5 51.6 49.8 47.9 45.9 43.8 41.7 39.5	27,300 25,300 23,300 20,200 18,700 16,500 15,400 14,300 13,400 12,700 11,900 11,200

STERLING CRANE

210 ' 8	Boom	ounterweights	220 ' E	,		230 ' E	,		240 ' E	Boom	
Load	Boom	360°	Load	Boom	360°	Load	Boom	360°	Load	Boom	360°
ladius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Load	Radius	Angle	Rated Loa
(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)	(ft)	(deg.)	(lbs)
45.0	79.4	73,800 *	45.0	79.8	58,800 *	50.0	79.0	58,800 *	50.0	79.5	54,400
50.0	78.0	65,000 *	50.0	78.5	58,800 *	55.0	77.7	55,700 *	55.0	78.3	51,300
55.0	76.6	57,700 *	55.0	77.2	57,700 *	60.0	76.5	50,700 *	60.0	77.0	48,200
60.0	75.1	51,800 *	60.0	75.8	51,800 *	65.0	75.2	45,800 *	65.0	75.8	44,700
65.0	73.7	46,900 *	65.0	74.5	46,700 *	70.0	73.9	41,400 *	70.0	74.6	40,500
70.0	72.3	42,500	70.0	73.1	42,300 *	75.0	72.6	37,900 *	75.0	73.3	37,000
75.0 80.0	70.9 69.4	38,300 34,800	75.0 80.0	71.8 70.4	38,300 34,800	80.0 85.0	71.3 69.9	34,600 31,500	80.0 85.0	72.1 70.8	33,700 31,000
85.0	67.9	34,800 31,900	80.0 85.0	69.0	34,800 31,700	90.0	68.6	28,800	90.0	69.5	28,400
90.0	66.5	29,300	90.0	67.6	29,100	95.0	67.3	26,400	95.0	68.3	26,000
95.0	64.9	26,800	95.0	66.2	26,800	100.0	65.9	24,400	100.0	67.0	24,000
100.0	63.4	24,900	100.0	64.7	24,600	105.0	64.5	22,400	105.0	65.7	22,000
105.0	61.9	22,900	105.0	63.3	22,900	110.0	63.1	20,900	110.0	64.3	20,500
110.0	60.3	21,300	110.0	61.8	21,100	115.0	61.7	19,400	115.0	63.0	18,900
115.0 120.0	58.7 57.1	19,800	115.0 120.0	60.3 58.8	19,600	120.0 125.0	60.3 58.8	17,800 16,700	120.0 125.0	61.7 60.3	17,600 16,300
120.0	57.1 55.5	18,500 17,100	120.0	58.8 57.2	18,200 16,900	125.0	58.8 57.4	15,400	125.0	60.3 58.9	15,200
130.0	53.8	16,000	120.0	55.7	15,800	135.0	55.9	14,500	135.0	57.5	14,100
135.0	52.1	14,900	135.0	54.1	14,700	140.0	54.3	13,400	140.0	56.0	13,000
140.0	50.3	13,800	140.0	52.4	13,800	145.0	52.8	12,500	145.0	54.6	12,100
145.0	48.5	13,000	145.0	50.8	13,000	150.0	51.2	11,600	150.0	53.1	11,000
150.0	46.6	12,300	150.0	49.1	12,100	155.0	49.6	10,800	155.0	51.6	10,300
155.0	44.7	11,400	155.0	47.3	11,200	160.0	47.9	9,900	160.0	50.0	9,400
160.0 165.0	42.7 40.6	10,500	160.0 165.0	45.5 43.6	10,300 9,700	165.0 170.0	46.2	9,200	165.0 170.0	48.5 46.8	8,800
170.0	40.6 38.5	9,900 9,200 *	165.0	43.6 41.7	9,700 9,000 *	170.0	44.4 42.6	8,500 7,900 *	170.0	46.8 45.2	7,900 7,200
175.0	36.2	3,200 8,100 *	175.0	39.7	8,100 *	180.0	40.7	7,000 *	180.0	43.4	6,800
180.0	33.8	7,200 *	180.0	37.6	7,200 *	185.0	38.7	6,300 *	185.0	41.7	6,100
185.0	31.2	6,300 *	185.0	35.3	6,600 *	190.0	36.7	5,700 *	190.0	39.8	5,200
			190.0	33.0	5,700 *	195.0	34.5	4,800 *	195.0	37.9	4,600
			195.0	30.5	4,800 *	200.0	32.2	4,100 *			
250 ' I	Boom		250 ' E	Boom							
Load ladius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)	Load Radius (ft)	Boom Angle (deg.)	360° Rated Load (lbs)						
50.0	79.9	50,200 *	145.0	56.2	11,600						
55.0	78.7	47,300 *	150.0	54.8	10,800						
60.0	77.6	44,500 *	155.0	53.4	9,900						
65.0	76.4	42,100 *	160.0	51.9 50.5	9,000 8,300						
70.0 75.0	75.2 74.0	39,600 * 36,100 *	165.0 170.0	50.5 49.0	8,300 7,400						
80.0	74.0	33,000 *	175.0	49.0 47.4	6,800						
85.0	71.6	30,200 *	180.0	45.8	6,300 *						
90.0	70.4	27,900 *	185.0	44.2	5,700 *						
95.0	69.2	25,700 *	190.0	42.5	5,000 *						
100.0	67.9	23,500	195.0	40.8	4,400 *						
105.0	66.7	21,800									
110.0	65.4 64.2	20,000 18,500									
	64.2 62.9	17,100									
115.0 120.0		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,									
120.0		15.800									
	61.6 60.3	15,800 14,700									
120.0 125.0	61.6										