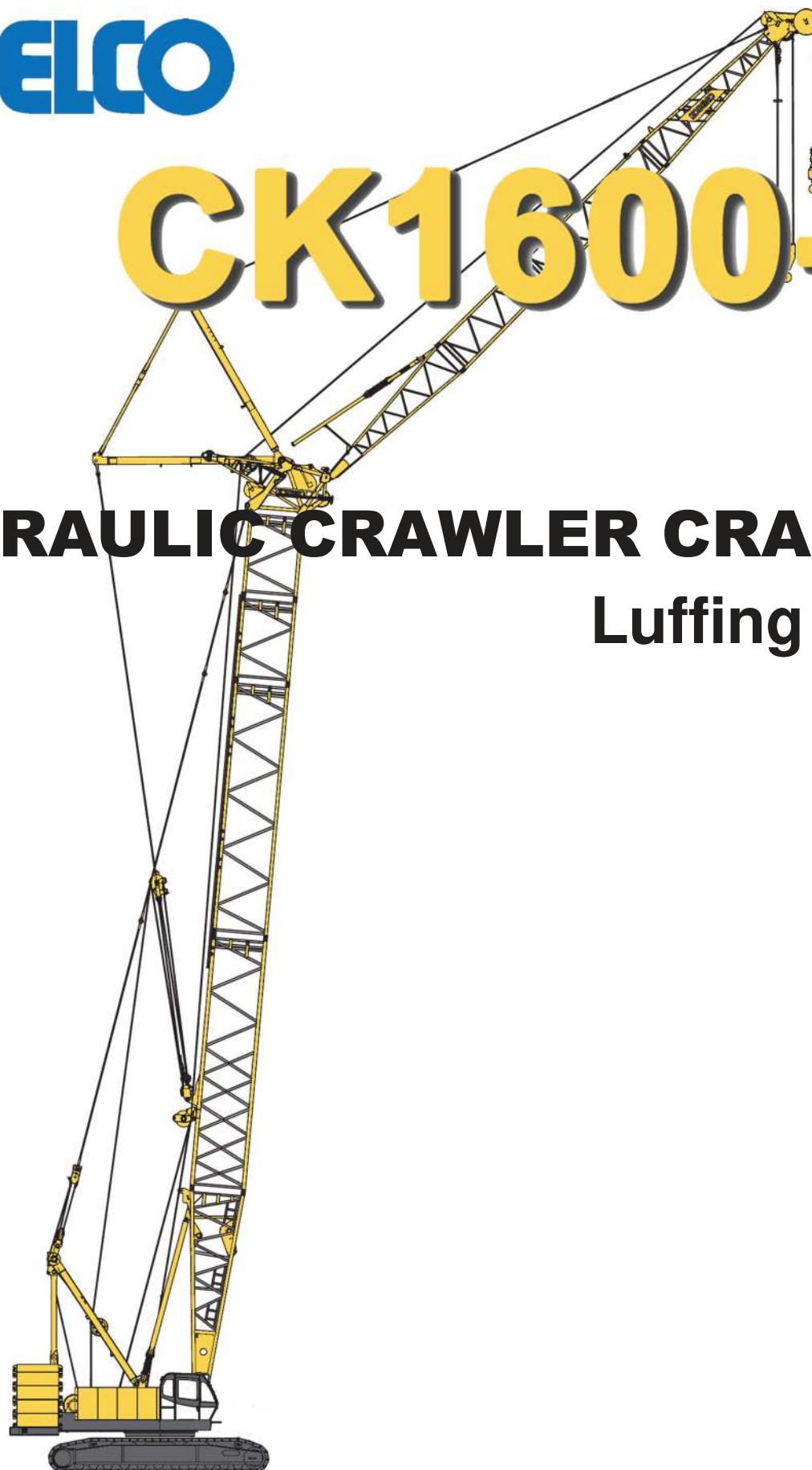


# KOBELCO

# CK1600-II



## HYDRAULIC CRAWLER CRANE Luffing Jib

Max. Lifting Capacity with Luffing Jib: 79,000 lbs

Max. Boom Length: 157 ft

Max. Luffing Jib Length: 175 ft

# SPECIFICATIONS FOR CK1600-II CRAWLER CRANE

## Luffing Jib

The Kobelco CK1600-II Crawler Crane is designed from the ground up for reliable operation, convenient maintenance and easy transport.

Please consult your Kobelco distributor for additional information regarding specifications, operating parameters and maintenance requirements.

### 1. GENERAL DESCRIPTION

Type	Crawler mounted, fully revolving
Maximum lifting capacity with luffing jib	79,000 lbs (35,800 kg) (at 40' operating radius)
Maximum boom length	157' (47.9 m)
Maximum luffing jib length	175' (53.3 m)
Working weight	Approx. 299,000 lbs (135.5 tons) (Including upper and lower machine, counterweights, 107' boom + 75' jib, hook block)
Ground bearing pressure (with 107' boom + 75' jib)	Approx. 11.5 psi (79.2 kPa)

### 2. WORKING SPEED

Hoist line speed (front and rear drum)	390 ~ 10 ft/min (120 ~ 3 m/min)
Lowering line speed (front and rear drum)	390 ~ 10 ft/min (120 ~ 3 m/min)
Boom hoist line speed	157 ~ 7 ft/min (48 ~ 2 m/min)
Boom lowering line speed	157 ~ 7 ft/min (48 ~ 2 m/min)
Jib hoist line speed	197 ft/min (60 m/min)
Jib lowering line speed	197 ft/min (60 m/min)
Swing speed	3.2 rpm (3.2 min <sup>-1</sup> )
Travel speed (High / Low)	0.81 / 0.56 mph (1.3 / 0.9 km/hour)

Line speed based on single line, no load and first layer of rope on the drum. Line speed is controllable by Dial-Type Speed Control System.

### 3. LUFTING JIB ATTACHMENTS

#### 3.1 Boom

The welded lattice construction uses tubular, high-tension steel chords with pin connections between sections, extensible up to 157' (47.9 m).

Basic boom length	107' (32.7 m)
Boom tip section (with pin connected boom point sheave)	2' (0.7 m)
Boom insert section (with idler sheave)	30' (9.14 m)
Boom base section	25' (7.6 m)
Maximum boom length	157' (47.9 m)

#### 3.2 Boom insert

Boom inserts are available to provide extension capabilities. They feature welded lattice construction with tubular, high-tension steel chords and pin connections on each one of 10' (3.1 m), 20' (6.1 m), 40' (12.2 m) in length.

#### 3.3 Jib

The jib employs welded lattice construction with tubular, high-tension steel chords with pin connections between sections, extendible up to 175' (53.3 m).

Basic jib length	75' (22.9 m)
Jib insert	14' (4.3 m), 20' (6.1 m)
Jib tip section	21' (6.1 m)
Jib base section	20' (6.4 m)
No. of point sheaves	2
Maximum lift capacity	79,000 lbs (35.8 tons)
Maximum jib length	175' (53.3 m)
Insert jib length	10' (3.05 m), 20' (6.10 m) 40' (12.2 m)

Jib boom inserts are available to provide extension capabilities. They feature welded lattice construction with tubular, high-tension steel chords and pin connections.

#### 3.4 Auxiliary sheave

One (1) sheave with rollers, required during erection of jib.

#### 3.5 Diameter of wire rope

Hoist rope	26 mm
Jib hoist rope (8 parts)	26 mm
Boom hoist rope (12 parts)	20 mm
Boom suspension rope	30 mm
Jib suspension rope	30 mm
Strut suspension rope	30 mm

#### 3.6 Boom hoist reeving

Twelve (12) parts of 20 mm dia. high strength wire rope.

#### 3.7 Jib hoist reeving

Eight (8) parts of 26 mm dia. high strength wire rope.

#### 3.8 Boom backstops

Telescopic type with spring bumper.

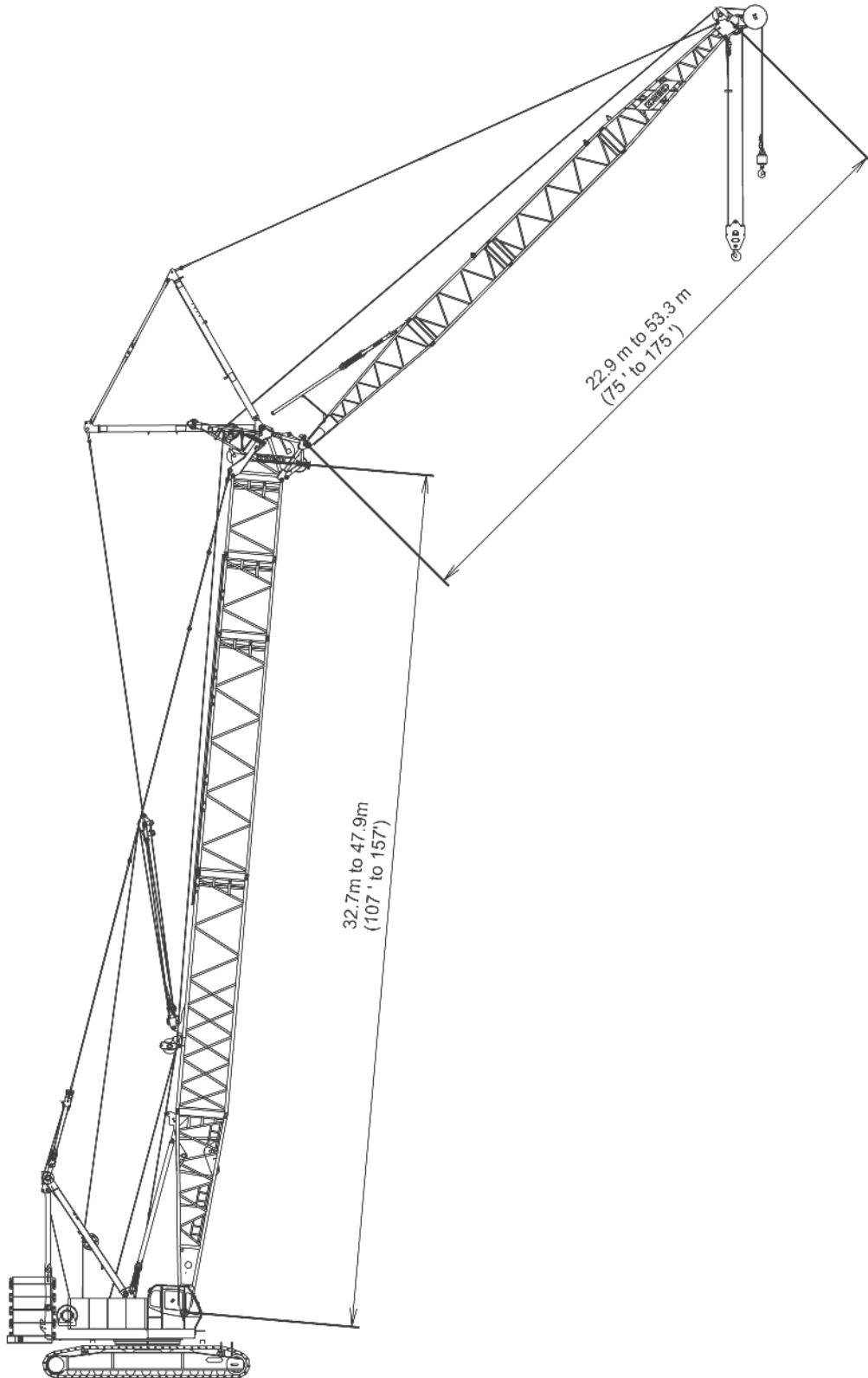
## 4. JIB HOIST DRUM

<b>Jib hoist drum</b>	(3rd drum on straight crane) Powered by hydraulic motor through planetary reducer.
<b>Drum</b>	Single drum grooved for 26 mm dia. wire rope
<b>Brake</b>	A spring-set, hydraulically released multiple-disc brake is internally configured in the hoist motor and is operated through a counter-balance valve. External ratcheter for locking drum.

## 9. SAFETY SERVICE

Function lock lever  
Hook over hoist shut off (Anti-two-block)  
Boom and jib over hoist limit switch  
Boom angle indicator  
Signal horn  
Boom and jib hoist drum lock  
Front and rear hoist drum lock  
Swing lock  
Swing alarm (Buzzer and lamps)  
Boom backstops  
Jib backstops  
Strut backstops  
Over load preventive device (Load Moment Indicator)

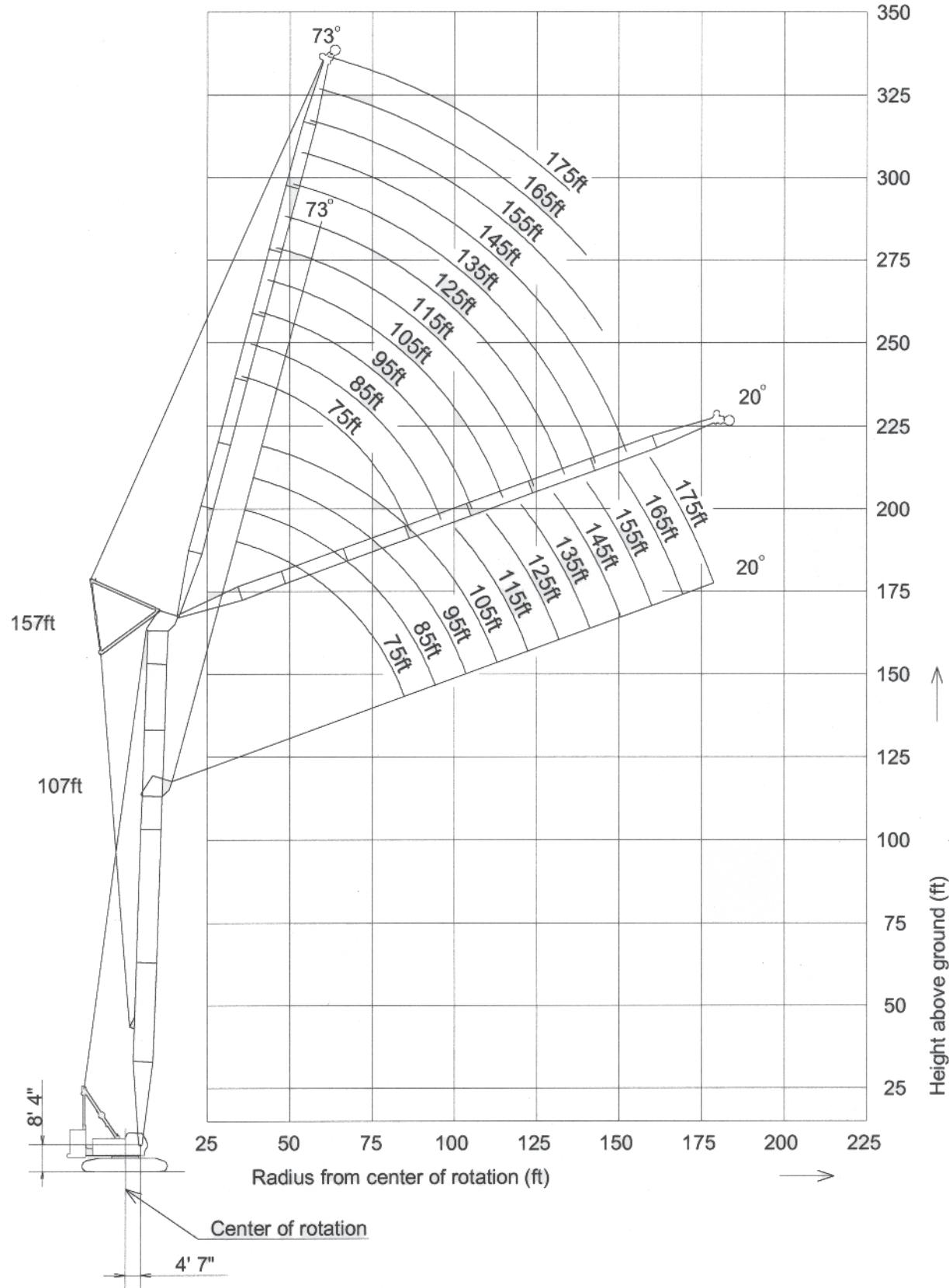
All specifications are subject to change without notice.



# Luffing Jib Working Ranges

**KOBELCO**

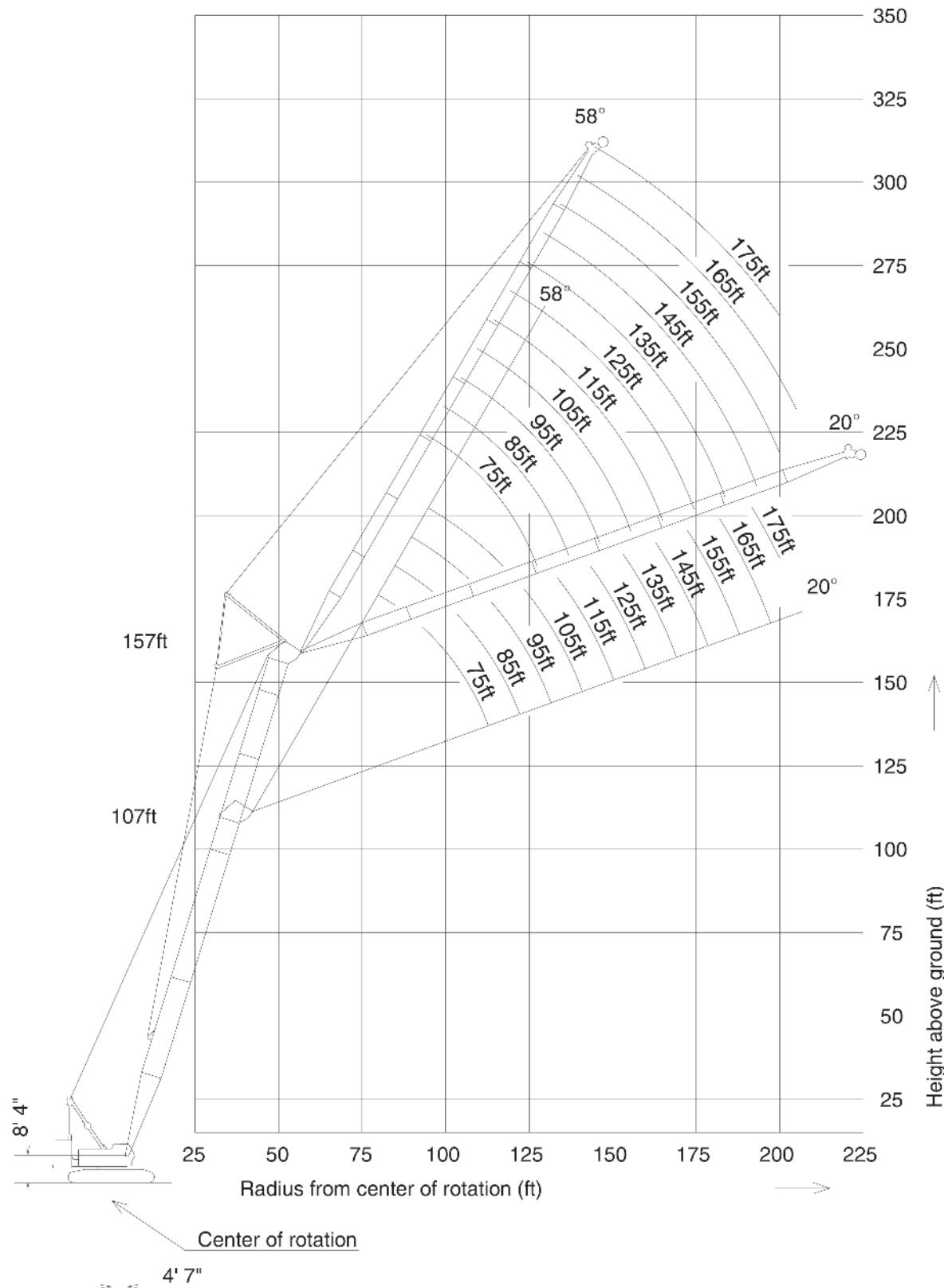
Boom Angle 88°



# Luffing Jib Working Ranges

KOBELCO

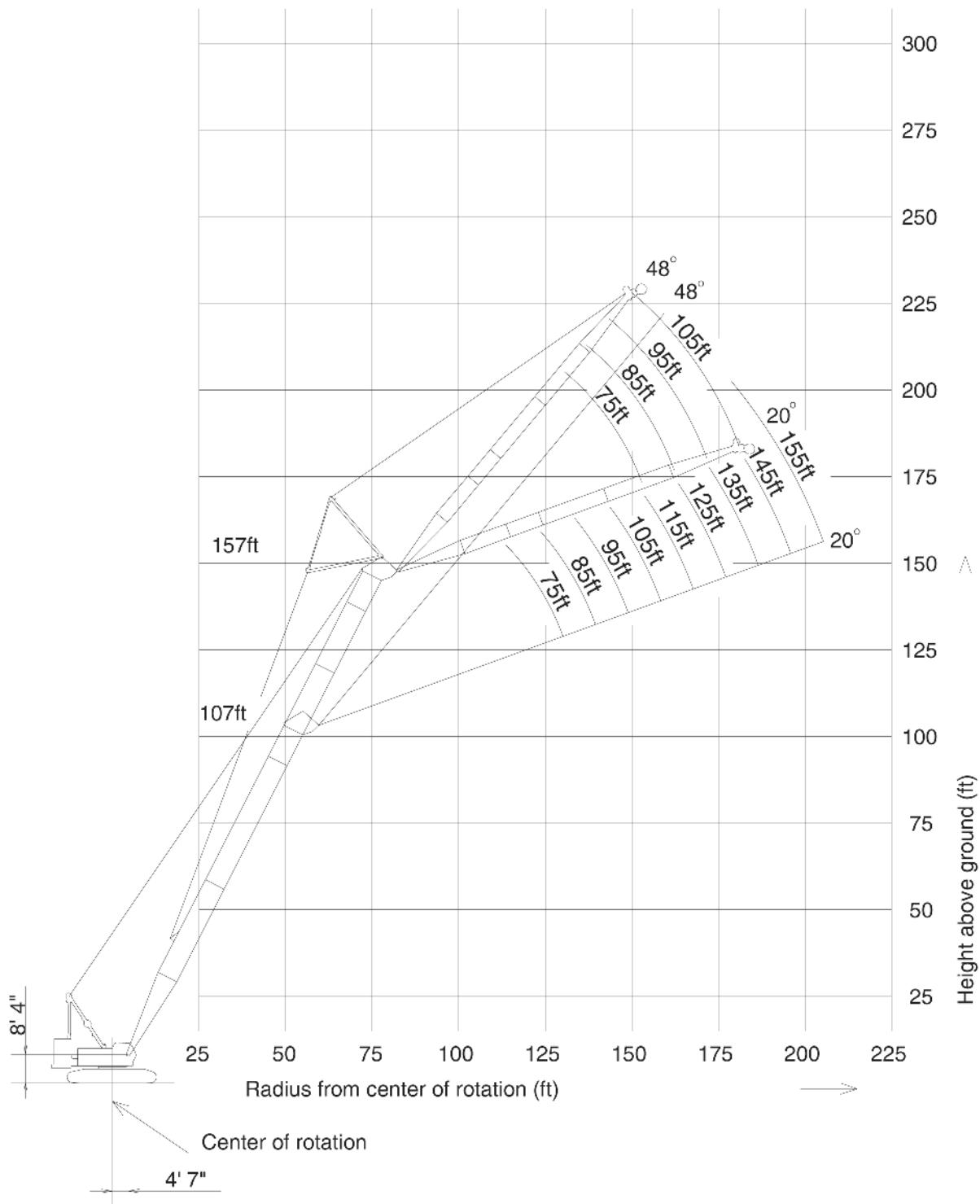
Boom Angle 73°



# Luffing Jib Working Ranges

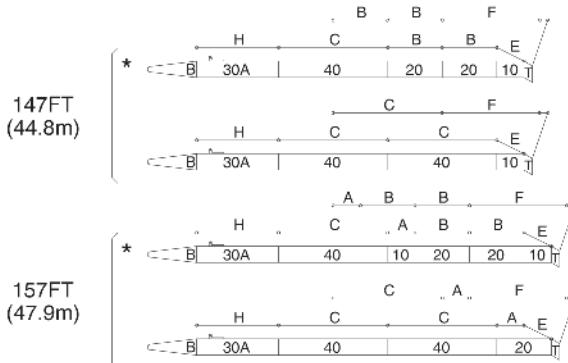
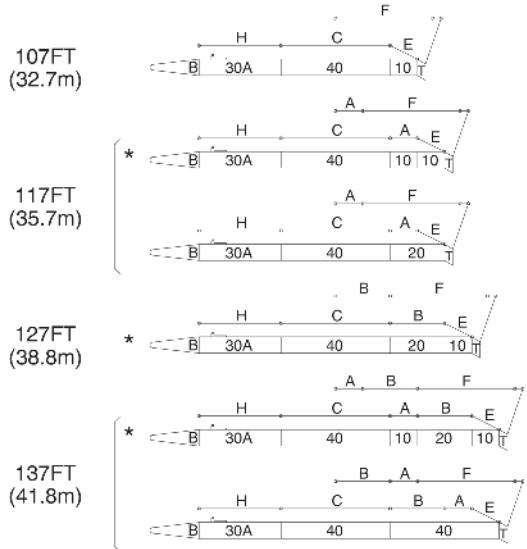
**KOBELCO**

Boom Angle 63°



# Boom and Guy Line Arrangement (Luffing Jib) 1/2

**KOBELCO**

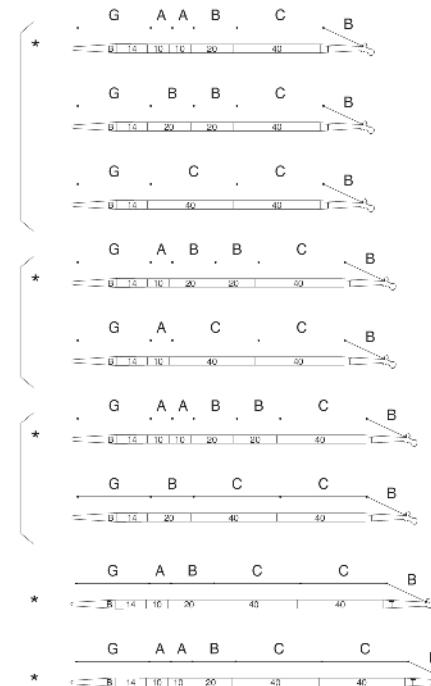
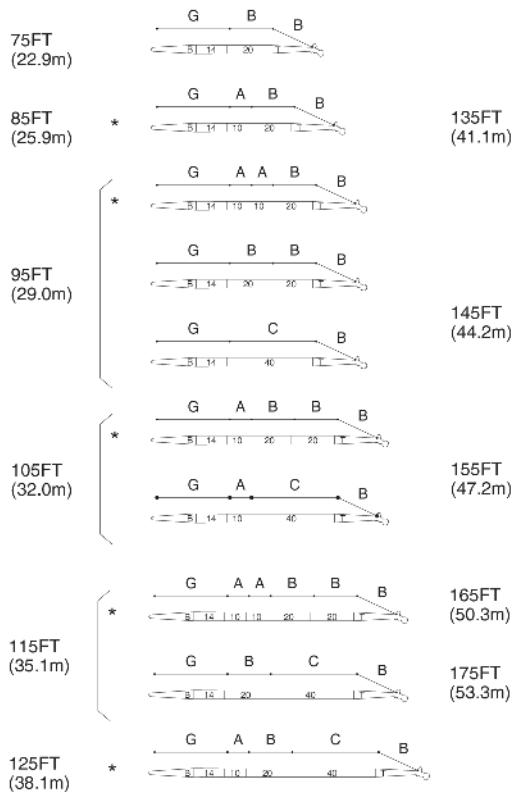


SYMBOL	DIA in (mm)	LENGTH ft (m)
A	1-3/16" (30)	10 (3.05)
B	1-3/16" (30)	20 (6.10)
C	1-3/16" (30)	40 (12.2)
E	1-3/16" (30)	9.5(2.88)
F	1-3/16" (30)	48.7(14.9)
H	1-3/16" (30)	30 (9.14)

ALWAYS CONSULT THIS PLATE FOR THE BOOM AND GUY LINE ARRANGEMENT.

\* MARK SHOWS THE STANDARD BOOM ARRANGEMENT WHICH MAKE THE BOOM ARRANGEMENT OF LESS THAN THE EACH BOOM LENGTH POSSIBLE

# Boom and Guy Line Arrangement (Luffing Jib) 2/2



ALWAYS CONSULT THIS PLATE FOR THE JIB AND GUY LINE ARRANGEMENT.

\* MARK SHOWS THE STANDARD JIB ARRANGEMENT WHICH MAKE THE JIB ARRANGEMENT OF LESS THAN THE EACH JIB LENGTH POSSIBLE.

SYMBOL	DIA in (mm)	LENGTH ft (m)
A	1-3/16" (30)	10 (3.05)
B	1-3/16" (30)	20 (6.10)
C	1-3/16" (30)	40 (12.2)
G	1-3/16" (30)	34 (10.3)

# **Rating Chart Supplemental Data**

## **with Luffing Boom Tip**

**KOBELCO**

1. 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.
  - Boom backstops are required for all boom length.
  - Gantry must be fully raised position for all operations.
  - The crane must be leveled to within 1% on a firm supporting surface.
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. The total load that can be lifted over boom point with auxiliary sheave is the value for the 1250 lbs deducted from rated load for the boom without auxiliary sheave.
8. The total load that can be lifted over an auxiliary sheave is the value for 1250 lbs deducted from rated load for the boom without auxiliary sheave, but it should not exceed 59,000 lbs.
9. Least stable position is over the side.
10. 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
Maximum Loads (lbs)	147,500	170,000

### **Auxilliary Sheave Hoist Loads**

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

11. Lifting capacities 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.

12. Designed and rated to comply with ANSI Code B30.5.

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

# Rating Chart Supplemental Data

## for Luffing

**KOBELCO**

- 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).
- 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.
- 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.
  - Boom backstops are required for all boom length.
  - Gantry must be fully raised position for all operations.
  - The crane must be leveled to within 1% on a firm supporting surface.
- Do not attempt to lift where no radius on load is listed as crane may tip or collapse.
- Attempting to lift more than rated loads may cause machine to tip or collapse. Do not tip machine to determine rated loads.
- 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.
- The total load that can be lifted over jib is limited by rated jib loads.
- The total load that can be lifted over an auxiliary sheave should not exceed 29,500 lbs.
- Luffing boom and jib combinations.

		Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
Boom Length (ft)	107	0	0	0	0	0	0	0	0	0	0	0
	117	0	0	0	0	0	0	0	0	0	0	0
	127	0	0	0	0	0	0	0	0	0	0	0
	137	0	0	0	0	0	0	0	0	0	0	0
	147	0	0	0	0	0	0	0	0	0	0	0
	157	0	0	0	0	0	0	0	0	0	0	0

0: Combinations which is allowed.

- The boom should be erected over the front of the crawlers, not laterally. When erecting and lowering for all boom and jib combinations, the blocks for erection must be placed at the end of the crawlers.

- Least stable position is over the side.
- The boom should be erected over the front of the crawlers, not laterally. The blocks for erection must be placed at the end of the crawlers when erecting and lowering the boom.
  - In the case of nine counterweight, the boom length are 127 ft or over.
  - In the case of eleven counterweight and two carbodyweight, the boom length are 147 ft or over.

- Maximum number of reeving parts of line for hoist rope

- Luffing Jib

		Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
Boom Length (ft)	107	3	3	3	3	2	2	2	2	2	2	2
	117	3	3	3	2	2	2	2	2	2	2	2
	127	3	3	3	2	2	2	2	2	2	2	2
	137	3	3	2	2	2	2	2	2	2	2	2
	147	3	2	2	2	2	2	2	2	2	2	2
	157	3	2	2	2	2	2	2	2	2	2	2

- Crane Boom with Luffing Jib attached

		Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
Boom Length (ft)	107	4	4	4	4	4	4	3	3	3	3	3
	117	4	4	4	4	4	4	3	3	3	3	3
	127	4	4	4	3	3	3	3	3	3	3	3
	137	3	3	3	3	3	3	3	3	3	2	2
	147	3	3	3	3	3	3	3	2	2	2	2
	157	3	3	3	3	3	3	2	2	2	2	2

- Maximum hoist load for number of reeving parts of line for hoist rope.

**Main Hoist Loads**

No. of Parts of line	1	2	3	4
Maximum Loads (lbs)	29,500	59,000	88,500	118,000

**Jib Hoist Loads**

No. of Parts of line	1	2	3
Maximum Loads (lbs)	29,500	59,000	79,000

**Auxiliary Hoist Loads**

No. of Parts of line	1
Maximum Loads (lbs)	29,500

- The total load that can be lifted over a luffing jib with main hook block is the value for 4,000 lbs deducted from rated load for the luffing jib without main hook block.

# **Rating Chart Supplemental Data**

## **for Luffing**

**KOBELCO**

16. Lifting capacities 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.

Designed and rated to comply with ANSI Code B30.5.

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

# Rated Loads in Pounds for CK1600-II Crane Boom with Luffing Jib Attached but not Used

LUFFING JIB ATTACHED TO BOOM AT 25 DEGREE OFFEST ANGLE

11 Counterweights + 2 Low Weights

## 107' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
30	79.0	109,100 *	105,800 *	102,000 *	98,800 *	95,500 *	91,100 *	87,400 *	83,700 *	78,900 *	74,700 *	70,400 *
32	77.9	99,700 *	96,300 *	92,800 *	89,600 *	86,500 *	82,400 *	78,800 *	75,100 *	70,600 *	66,500 *	62,300 *
34	76.8	91,500	88,300	84,800	81,800	78,800	74,900	71,400	67,800	63,400	59,500	55,400
36	75.7	84,300	81,200	77,800	74,900	71,900	68,200	64,700	61,300	57,100	53,400	49,400
38	74.6	77,000	74,100	70,700	68,000	65,100	61,400	58,100	54,900	50,800	47,200	43,300
40	73.4	70,300	67,400	64,200	61,500	58,700	55,200	51,900	48,800	44,900	41,400	37,700
45	70.6	56,500	53,700	50,700	48,100	45,400	42,100	39,100	36,200	32,500	29,100	25,800
50	67.7	46,000	43,300	40,600	38,100	35,600	32,400	29,700	26,800	23,200	20,100	17,000
55	64.7	37,600	35,000	32,300	30,000	27,600	24,600	22,000	19,200	15,800		
60	61.6	30,700	28,300	25,600	23,400	21,000	18,200					
65	58.4	25,300	22,900	20,400	18,200	16,000	13,100					
70	55.1	21,000	18,500	16,100	14,100							
75	51.7	17,200	14,900									
80	48.0	14,000										
85	44.2	11,100										

## 117' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
30	80.0	106,200 *	102,700 *	99,200 *	95,900 *	92,600 *	88,600 *	84,900 *	81,200 *	76,500 *	72,400 *	68,000 *
32	79.0	97,300 *	93,900 *	90,400 *	87,400 *	84,200 *	80,300 *	76,700 *	73,100 *	68,600 *	64,800 *	60,500 *
34	78.0	89,600 *	86,400 *	83,000 *	80,100 *	77,100 *	73,200 *	69,800 *	66,300 *	62,000 *	58,300 *	54,200 *
36	76.9	82,900 *	79,800 *	76,500 *	73,800 *	70,800 *	67,000 *	63,700 *	60,400 *	56,200 *	52,600 *	48,700 *
38	75.9	76,200 *	73,200 *	70,100 *	67,400 *	64,500 *	60,800 *	57,700 *	54,500 *	50,400 *	46,900 *	43,200 *
40	74.9	69,900	67,000	64,000	61,400	58,500	55,000	52,000	48,900	44,900	41,500	38,000
45	72.3	56,500	53,600	50,700	48,200	45,600	42,400	39,500	36,600	32,800	29,700	26,400
50	69.7	46,000	43,400	40,600	38,300	35,800	32,700	30,000	27,200	23,800	20,700	17,500
55	67.0	37,600	35,100	32,300	30,200	27,800	24,800	22,200	19,600	16,400		
60	64.3	30,700	28,300	25,600	23,700	21,300	18,400					
65	61.5	25,300	22,900	20,400	18,400	16,200	13,600					
70	58.6	20,800	18,500	16,100	14,100							
75	55.6	17,100	14,900									
80	52.5	14,000										
85	49.2	11,100										

## 127' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
32	79.9	95,400 *	92,100 *	88,600 *	85,500 *	82,500 *	78,500 *	75,200 *	71,500 *	67,300 *	63,400 *	59,200 *
34	78.9	87,300 *	84,300 *	81,000 *	78,000 *	75,000 *	71,300 *	67,800 *	64,400 *	60,300 *	56,600 *	52,700 *
36	78.0	80,700 *	77,700 *	74,500 *	71,700 *	68,800 *	65,100 *	61,800 *	58,500 *	54,500 *	50,900 *	47,200 *
38	77.1	74,100 *	71,200 *	68,100 *	65,300 *	62,600 *	59,000 *	55,900 *	52,700 *	48,800 *	45,300 *	41,600 *
40	76.1	68,100	65,200	62,200	59,500	56,900	53,400	50,400	47,300	43,600	40,100	36,600
45	73.8	55,800	53,100	50,200	47,800	45,300	42,000	39,300	36,400	32,800	29,700	26,300
50	71.4	45,600	42,900	40,200	37,900	35,500	32,500	29,800	27,100	23,700	20,800	17,700
55	69.0	37,200	34,600	32,100	29,900	27,500	24,700	22,100	19,500	16,200		
60	66.5	30,500	28,000	25,600	23,400	21,200	18,400					
65	63.9	25,100	22,700	20,200	18,200	16,000	13,400					
70	61.4	20,600	18,300	15,900	14,100							
75	58.7	16,700	14,600									

# Rated Loads in Pounds for CK1600-II Crane Boom with Luffing Jib Attached but not Used

LUFFING JIB ATTACHED TO BOOM AT 25 DEGREE OFFEST ANGLE

11 Counterweights + 2 Low Weights

## 137' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
34	79.7	85,500 *	82,300 *	79,000 *	76,100 *	73,300 *	69,600 *	66,300 *	62,800 *	58,700 *	54,900 *	51,200 *
36	78.9	79,100 *	76,000 *	72,800 *	70,000 *	67,200 *	63,700 *	60,500 *	57,100 *	53,100 *	49,600 *	45,900 *
38	78.0	72,700 *	69,700 *	66,600 *	63,900 *	61,200 *	57,800 *	54,600 *	51,500 *	47,600 *	44,200 *	40,600 *
40	77.2	66,900	64,000	61,000	58,400	55,700	52,400	49,400	46,300	42,600	39,300	35,800
45	75.0	55,600	52,900	50,000	47,800	45,100	42,000	39,300	36,400	32,900	29,700	26,600
50	72.8	45,600	42,900	40,200	38,000	35,600	32,600	30,000	27,300	23,900	21,100	18,000
55	70.6	37,200	34,600	32,100	29,900	27,700	24,700	22,300	19,800	16,500		
60	68.3	30,400	28,000	25,600	23,400	21,300	18,600	16,200				
65	66.0	24,900	22,700	20,200	18,200	16,200	13,600	11,200				
70	63.7	20,500	18,300	15,900	14,100							
75	61.3	16,700	14,500									

## 147' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
36	79.7	77,500 *	74,700 *	71,400 *	68,800 *	66,000 *	62,300 *	59,300 *	56,000 *	52,100 *	48,600 *	44,900 *
38	78.9	71,500 *	68,800 *	65,600 *	63,000 *	60,300 *	56,800 *	53,900 *	50,700 *	46,900 *	43,500 *	39,900 *
40	78.1	66,000 *	63,400 *	60,300 *	57,700 *	55,100 *	51,800 *	48,900 *	45,900 *	42,200 *	38,900 *	35,400 *
45	76.0	55,100 *	52,500 *	49,600 *	47,300 *	44,800 *	41,500 *	38,900 *	36,200 *	32,600 *	29,700 *	26,300 *
50	74.0	45,400	42,900	40,200	38,000	35,700	32,700	30,200	27,500	24,100	21,400	18,400
55	72.0	37,100	34,800	32,100	30,000	27,800	25,000	22,600	20,000	16,900		
60	69.9	30,200	28,000	25,400	23,400	21,300	18,600	16,200				
65	67.8	24,900	22,700	20,200	18,200	16,200	13,600	11,400				
70	65.6	20,400	18,200	15,900	13,900							
75	63.4	16,500	14,400									

## 157' Boom

Load Radius (ft.)	Boom Angle (deg)	Jib Length (ft)										
		75	85	95	105	115	125	135	145	155	165	175
38	79.6	69,900 *	67,000 *	64,000 *	61,400 *	58,600 *	55,300 *	52,300 *	49,200 *	45,400 *	42,200 *	38,700 *
40	78.8	64,900 *	62,100 *	59,200 *	56,600 *	54,000 *	50,700 *	47,800 *	44,800 *	41,100 *	38,000 *	34,500 *
45	77.0	53,800 *	51,100 *	48,500 *	46,000 *	43,600 *	40,600 *	37,800 *	35,100 *	31,700 *	28,600 *	25,500 *
50	75.1	44,800	42,300	39,800	37,500	35,200	32,300	29,700	27,100	23,900	21,100	18,200
55	73.2	36,900	34,600	32,100	30,000	27,800	25,000	22,600	20,100	17,000		
60	71.2	30,000	27,800	25,400	23,400	21,300	18,600	16,200				
65	69.3	24,600	22,400	20,000	18,200	16,200	13,600	11,400				
70	67.3	20,200	18,100	15,800	13,900							
75	65.2	16,300	14,300									

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

107' Boom							85 ft Jib						
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib					
	Boom Angle							Boom Angle					
88	83	78	73	68	63		88	83	78	73	68	63	
40	79,000 *						40						
45	72,000 *						45						
50	65,000 *						50	66,000 *					
55	59,000 *						55	59,000 *					
60	52,200 *	57,200					60	52,900 *	56,700				
65	45,400 *	51,500					65	46,200 *	51,400				
70	39,900 *	46,800 *	44,200				70	40,700 *	46,800				
75	35,000 *	42,700 *	40,600				75	36,100 *	42,800				
80	29,700 *	39,200 *	37,400				80	32,100 *	39,400	37,000			
85		35,200 *	34,700	32,100			85	28,800 *	36,400	34,200			
90		31,000 *	32,200	30,200			90		33,200 *	31,800			
95			30,000	28,100			95		29,700 *	29,700	27,900		
100			28,100	26,300	24,200		100		26,400 *	27,700	26,100		
105			26,300	24,600	23,100		105		20,700 *	26,100	24,500	22,100	
110				23,100	21,800		110			24,500	23,000	21,300	
115					20,500	18,600	115			23,000	21,700	20,100	
120					19,400	17,900	120				20,500	19,000	17,100
125						16,900	125					17,900	16,600
130							130						15,700
135							135						14,800
140							140						
145							145						
150							150						
155							155						
160							160						
165							165						
170							170						

107' Boom							105 ft Jib						
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib					
	Boom Angle							Boom Angle					
88	83	78	73	68	63		88	83	78	73	68	63	
40							40						
45							45						
50	66,000 *						50	64,000 *					
55	59,000 *						55	59,000 *					
60	53,100 *						60	53,300 *					
65	46,500 *						65	46,700 *					
70	41,000 *	46,400					70	41,200 *	46,100				
75	36,500 *	42,500					75	36,800 *	42,200				
80	32,600 *	39,100	36,300				80	33,000 *	38,900				
85	29,300 *	36,100	33,900				85	29,700 *	35,900	33,200			
90	26,400 *	33,300 *	31,500				90	26,800 *	33,100 *	31,100			
95	23,800 *	30,400 *	29,400				95	24,400 *	30,600 *	29,100			
100		27,300 *	27,400	25,700			100	22,000 *	27,900 *	27,200			
105		24,600 *	25,700	24,100			105		25,300 *	25,500	23,500		
110		21,800 *	24,200	22,700			110		22,900 *	24,000	22,400		
115			22,800	21,300	19,400		115		20,900 *	22,500	21,100		
120			21,400	20,100	18,700		120		18,500 *	21,300	19,900	18,100	
125				19,000	17,600	15,700	125			20,100	18,900	17,400	
130				18,000	16,700	15,300	130			19,000	17,800	16,500	
135					15,800	14,500	135				16,900	15,600	13,700
140					14,900	13,700	140					14,700	13,500
145						13,100	145					14,100	12,800
150						12,400	150						13,300
155							155						11,500
160							160						
165							165						
170							170						

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

107' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
50							50						
55	56,500 *						55	51,700 *					
60	53,000 *						60	49,500 *					
65	46,700 *						65	46,000 *					
70	41,400 *						70	41,800 *					
75	37,000 * 41,900						75	37,200 * 41,300					
80	33,200 * 38,600						80	33,500 * 38,200					
85	29,900 * 35,700						85	30,200 * 35,300					
90	27,100 * 32,900 *						90	27,300 * 32,400 *					
95	24,600 * 30,400 * 28,800						95	24,900 * 29,900 * 28,100					
100	22,400 * 28,200 * 27,000						100	22,700 * 27,700 * 26,800					
105	20,500 * 25,500 * 25,200						105	20,700 * 25,500 * 25,200					
110	18,700 * 23,300 * 23,800 22,200						110	18,900 * 23,300 * 23,600					
115	16,900 * 21,300 * 22,300 20,900						115	17,100 * 21,300 * 22,200			20,200		
120	19,400 * 21,100 19,700						120	15,600 * 19,600 * 21,000			19,400		
125	17,800 * 19,900 18,700 16,600						125	14,100 * 17,800 * 19,900			18,200		
130	15,600 * 18,900 17,700 16,200						130	16,500 * 18,800			17,300		
135	17,900 16,700 15,400						135	14,900 * 17,800			16,400	14,900	
140	16,300 * 15,900 14,500 12,600						140	13,200 * 16,900			15,500	14,200	
145		15,100 13,800 12,500					145		15,900 * 14,700			13,400	
150			13,200 11,900				150		14,500 * 14,100			12,700	11,400
155				12,500 11,200			155			13,400		12,200	10,800
160					10,600		160				11,500		10,200
165						10,100	165					11,000	9,700
170							170						9,100
175							175						8,700
180							180						
107' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	46,000 *						60	41,600 *					
65	44,000 *						65	40,000 *					
70	41,800 *						70	38,100 *					
75	37,200 *						75	36,800 *					
80	33,500 * 37,600						80	34,600 *					
85	30,200 * 35,000						85	30,800 *					
90	27,300 * 32,200 *						90	27,900 * 32,000 *					
95	24,900 * 29,700 *						95	25,300 * 29,500 *					
100	22,700 * 27,500 * 26,000						100	23,100 * 27,300 *					
105	20,700 * 25,500 * 24,900						105	21,100 * 25,300 *					
110	18,900 * 23,300 * 23,300						110	19,400 * 23,100 * 23,100					
115	17,400 * 21,300 * 22,000						115	17,800 * 21,300 * 21,800					
120	15,800 * 19,600 * 20,800 18,800						120	16,500 * 19,600 * 20,600					
125	14,500 * 18,000 * 19,700 18,000						125	15,200 * 18,000 * 19,400					
130	13,200 * 16,500 * 18,600 17,000						130	13,800 * 16,500 * 18,400 16,700					
135	11,900 * 15,200 * 17,600 16,200						135	12,700 * 15,200 * 17,400 15,800					
140	14,100 * 16,700 15,300 13,600						140	11,600 * 14,100 * 16,500 15,100					
145	12,700 * 15,900 14,500 13,200						145	13,000 * 15,700 14,300					
150	14,900 * 13,800 12,500						150	11,900 * 14,900 13,600			12,200		
155	13,600 * 13,200 11,900 9,800						155	11,000 * 13,900 * 13,000			11,500		
160	12,300 * 12,500 11,300 9,800						160	9,200 * 12,700 * 12,300			11,000	8,900	
165		12,000 10,600 9,300					165		11,600 * 11,700			10,400	8,900
170			11,300 10,100 8,900				170			11,200		9,900	8,500
175				9,700 8,300 7,900			175			10,600		9,300	8,100
180					7,400 180		185				8,900		7,700
185						190					8,400		7,200
190						195						6,800	
195												6,500	

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

107' Boom							165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
70	35,800 *						70	32,000 *					
75	34,200 *						75	31,000 *					
80	32,800 *						80	29,800 *					
85	30,400 *						85	28,500 *					
90	27,500 * 31,100 *						90	27,100 *					
95	25,100 * 29,300 *						95	24,900 * 29,100 *					
100	22,900 * 26,800 *						100	22,700 * 26,600 *					
105	20,900 * 24,900 * 23,500						105	20,700 * 24,600 *					
110	19,100 * 22,900 * 22,800						110	19,100 * 22,900 *					
115	17,600 * 20,900 * 21,300						115	17,600 * 21,100 * 21,000					
120	16,300 * 19,400 * 20,100						120	16,200 * 19,400 * 19,900					
125	14,900 * 17,800 * 19,000						125	14,700 * 17,800 * 18,800					
130	13,800 * 16,300 * 18,000						130	13,600 * 16,500 * 17,700					
135	12,700 * 15,200 * 17,000		15,200				135	12,500 * 15,200 * 16,800					14,500
140	11,600 * 13,800 * 16,200		14,700				140	11,600 * 13,800 * 15,900					14,400
145	10,800 * 12,700 * 15,400		13,900				145	10,500 * 12,700 * 15,100					13,600
150	9,700 * 11,900 * 14,600		13,200				150	9,200 * 11,900 * 14,300					13,000
155	8,300 * 11,000 * 13,800		12,500	10,800			155	11,000 * 13,600					12,300
160		9,900 * 12,700 *	12,000	10,500			160	10,100 * 12,700 * 11,600					9,800
165		9,000 * 11,600 *	11,300	10,000			165	9,200 * 11,600 * 11,100					9,700
170		10,800 *	10,800	9,400	7,800		170	8,300 * 10,800 * 10,500					9,100
175		9,900 *	10,200	8,900	7,600		175		9,900 * 10,000				8,500
180			9,800	8,400	7,100		180		9,200 * 9,400				8,100
185			9,200	8,000	6,800		185		8,300 * 9,000				7,700
190			8,800	7,600	6,300		190			8,500			7,200
195				7,100	6,000		195			8,100			6,900
200					5,700		200			7,700			6,500
205							205				6,100		
210							210					5,800	
107' Boom													
Load Radius (ft.)	175 ft Jib												
	Boom Angle												
	88	83	78	73	68	63							
70													
75	28,800 *												
80	27,500 *												
85	26,700 *												
90	25,500 *												
95	24,100 * 28,200												
100	22,400 * 27,100												
105	20,500 * 25,500												
110	18,900 * 24,000 *												
115	17,400 * 22,200 *												
120	15,800 * 20,500 * 19,100												
125	14,700 * 18,700 * 18,500												
130	13,400 * 17,100 * 17,500												
135	12,500 * 15,800 * 16,500												
140	11,200 * 14,700 * 15,600		13,400										
145		13,400 * 14,800	13,400										
150		12,500 * 14,100	12,600										
155		11,400 * 13,400	12,100										
160		10,500 * 12,600	11,400	9,100									
165		9,000 * 11,600 *	10,800	9,000									
170		10,800 *	10,200	8,800									
175		9,900 *	9,700	8,300									
180		9,000 *	9,100	7,800									
185			8,700	7,300									
190			8,200	7,000									
195			7,800	6,600									
200			7,300	6,200									
205				5,800									

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

117' Boom							85 ft Jib						
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40	78,000 *						40						
45	71,000 *						45						
50	64,000 *						50	64,500 *					
55	58,000 *						55	59,000 *					
60	52,600 * 56,600						60	53,300 * 56,200					
65	45,800 * 51,100						65	46,500 * 51,000					
70	40,100 * 46,500						70	41,000 * 46,400					
75	35,200 * 42,500	40,000					75	36,300 * 42,500					
80		39,200	36,800				80	32,400 * 39,100	36,400				
85		36,200	34,100				85	28,800 * 36,200	33,700				
90		31,900 * 31,700					90	24,900 * 33,600	31,300				
95			29,500	27,600			95		30,400 * 29,200	26,600			
100			27,600	25,900			100		27,100 * 27,300	25,400			
105			25,900	24,200			105		22,400 * 25,600	23,900			
110				22,800	21,000		110			22,400			
115					19,800		115			21,100	19,200		
120					18,700	17,100	120			19,900	18,200		
125						16,200	125				17,300	15,300	
130						15,300	130				16,400	14,900	
135							135					14,100	
140							140					13,400	
145							145						12,600
150							150						
155							155						

117' Boom							105 ft Jib						
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40							40						
45							45						
50	64,000 *						50	58,000 *					
55	58,300 *						55	53,500 *					
60	53,200 *						60	47,100 *					
65	46,900 * 50,300						70	41,600 * 45,400					
70	41,400 * 46,000						75	37,000 * 41,800					
75	36,800 * 42,100						80	33,200 * 38,500					
80	32,800 * 38,800						85	29,900 * 35,600	32,700				
85	29,500 * 35,900	33,200					90	27,100 * 33,000	30,600				
90	26,400 * 33,200	30,900					95	24,400 * 30,800	28,500				
95	23,800 * 31,000	28,800					100	22,200 * 28,600 * 26,600					
100		28,100 * 27,000	24,400				105	20,000 * 25,700 * 25,000	22,700				
105		25,300 * 25,300	23,400				110		23,500 * 23,500	21,800			
110		22,700 * 23,800	22,100				115		21,300 * 22,100	20,600			
115			22,300	20,800	18,500		120		19,100 * 20,900	19,400			
120			21,100	19,600	17,900		125		15,800 * 19,800	18,400	16,000		
125				19,900	18,600	16,900	130			18,700	17,400	15,700	
130					17,500	16,000	13,900	135		17,700	16,500	14,900	
135						14,400	13,000	140			15,600	14,200	12,600
140						13,600	12,200	145			14,800	13,400	12,000
145							11,500	150				12,700	11,300
150								155					10,600
155								160					10,100
160								165					9,500
165								170					
170								175					
175													

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

117' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
55	53,800 *						55	48,300 *					
60	50,900 *						60	46,400 *					
65	47,100 *						65	45,000 *					
70	41,600 *						70	41,000 *					
75	37,200 *	41,500					75	37,400 *					
80	33,200 *	38,200					80	33,700 * 37,500					
85	30,200 *	35,300					85	30,400 * 35,000					
90	27,300 *	32,800					90	27,500 * 32,500					
95	24,600 *	30,600	28,300				95	24,900 * 30,300					
100	22,400 *	28,500 *	26,400				100	22,700 * 28,100 *					
105	20,500 *	26,200 *	24,800				105	20,700 * 26,000 * 24,600					
110	18,700 *	23,800 *	23,200	20,900			110	18,900 * 23,800 * 23,200					
115	16,900 *	21,800 *	21,900	20,200			115	17,400 * 21,800 * 21,800	19,200				
120		19,800 *	20,700	19,100			120	15,800 * 20,000 * 20,600	18,700				
125		18,000 *	19,600	18,000			125	14,300 * 18,200 * 19,500	17,700				
130		16,500 *	18,500	17,100			130	16,700 * 18,500	16,700				
135			17,600	16,300	14,700		135	15,400 * 17,500	15,800				13,600
140			16,700	15,400	13,900		140	13,800 * 16,600	15,100				13,500
145				14,600	13,200	11,000	145		15,700	14,300			12,800
150				13,900	12,500	11,000	150			13,600			12,100
155					12,000	10,400	155			13,000			11,500
160					11,300	9,900	160			12,300			10,900
165					10,800	9,300	165			10,300			8,900
170						8,800	170						8,300
175							175						7,900
180							180						7,400
185							185						
117' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	43,500 *						60	39,400 *					
65	42,000 *						65	38,000 *					
70	40,200 *						70	36,300 *					
75	37,400 *						75	35,000 *					
80	33,500 *	37,200					80	33,000 *					
85	30,400 *	34,700					85	30,800 * 34,100					
90	27,500 *	32,100					90	27,900 * 31,900					
95	24,900 *	29,900					95	25,500 * 29,700					
100	22,700 *	27,800 *	25,400				100	23,300 * 27,600 *					
105	20,700 *	25,700 *	24,400				105	21,300 * 25,500 * 23,400					
110	18,900 *	23,800 *	22,900				110	19,600 * 23,500 * 22,700					
115	17,400 *	21,800 *	21,600				115	18,000 * 21,800 * 21,300					
120	15,800 *	20,000 *	20,300	17,800			120	16,500 * 20,000 * 20,100					
125	14,500 *	18,200 *	19,200	17,400			125	15,200 * 18,200 * 19,000	16,500				
130	13,400 *	16,900 *	18,100	16,500			130	13,800 * 16,900 * 17,900	16,200				
135	12,100 *	15,600 *	17,300	15,600			135	12,700 * 15,600 * 17,000	15,400				
140		14,300 *	16,400	14,800	12,500		140	11,600 * 14,300 * 16,200	14,500				
145		13,000 *	15,600	14,100	12,500		145	10,500 * 13,200 * 15,300	13,700	11,400			
150		11,900 *	14,800	13,300	11,900		150	12,100 * 14,600	13,100	11,400			
155			14,100	12,600	11,200		155	11,000 * 13,800	12,400	10,900			
160			13,000 *	12,100	10,500	8,300	160	9,900 * 13,200	11,900	10,300			
165			11,600 *	11,500	10,000	8,300	165		12,100 * 11,300	9,800	7,400		
170				11,000	9,500	8,000	170		11,000 * 10,800	9,200	7,400		
175					9,000	7,600	175			10,200	8,700	7,300	
180					8,500	7,200	180			9,700	8,200	6,900	
185						6,800	185				9,100	7,800	6,500
190							190					7,300	6,100
195							195						5,800
200							200						5,400

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

117' Boom							165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib					
	Boom Angle							Boom Angle					
88	83	78	73	68	63		88	83	78	73	68	63	
65							65						
70	34,000 *						70	30,800 *					
75	32,800 *						75	29,500 *					
80	31,500 *						80	28,300 *					
85	30,400 * 32,800						85	27,500 *					
90	27,700 * 30,800						90	26,300 *					
95	25,300 * 29,100						95	25,100 * 29,000					
100	23,100 * 27,200 *						100	22,900 * 27,100					
105	21,100 * 25,100 *						105	20,900 * 24,900 *					
110	19,400 * 23,300 *						110	19,100 * 23,100 *					
115	17,800 * 21,300 * 20,600						115	17,600 * 21,600 * 19,900					
120	16,300 * 19,600 * 19,700						120	16,300 * 19,800 * 19,500					
125	14,900 * 18,000 * 18,600						125	14,900 * 18,000 * 18,400					
130	13,800 * 16,700 * 17,600						130	13,600 * 16,700 * 17,400					
135	12,700 * 15,400 * 16,700	14,900					135	12,500 * 15,400 * 16,400					
140	11,600 * 14,100 * 15,800	14,200					140	11,600 * 14,100 * 15,500	13,400				
145	10,800 * 13,000 * 14,900	13,400					145	10,800 * 13,000 * 14,700	13,200				
150	9,700 * 12,100 * 14,300	12,700	10,200				150	8,800 * 12,100 * 13,900	12,400				
155	8,500 * 11,000 * 13,500	12,100	10,200				155	11,000 * 13,300	11,700				
160	10,100 * 12,800	11,400	9,800				160	10,100 * 12,600	11,100	8,800			
165	9,200 * 12,200	10,900	9,200				165	9,200 * 12,100	10,500	8,700			
170	8,100 * 11,200 * 10,300	8,800	6,500				170	8,500 * 11,200 * 10,000	8,400				
175	10,100 * 9,200 * 9,800	8,200	6,500				175	10,300 * 9,400	7,900				
180	9,200 * 8,800	7,800	6,500				180	9,400 * 8,500	7,400	7,000			
185		7,300	6,000				185	8,500 * 7,700	6,700				
190		7,000	5,700				190		6,200				
195		6,600	5,200				195		7,200	5,900			
200		6,200	4,900				200			5,600			
205			4,700				205			5,200			
210							210						
117' Boom							175 ft Jib						
Load Radius (ft.)	175 ft Jib												
	Boom Angle												
88	83	78	73	68	63								
65													
70													
75	27,600 *												
80	26,500 *												
85	25,300 *												
90	24,200 *												
95	23,600 * 27,300												
100	22,700 * 26,100												
105	20,700 * 25,400												
110	18,900 * 23,900												
115	17,400 * 22,400												
120	16,000 * 20,900 * 18,500												
125	14,700 * 19,100 * 18,000												
130	13,600 * 17,600 * 17,000												
135	12,500 * 16,300 * 16,200												
140	11,000 * 14,900 * 15,300												
145	13,800 * 14,500												
150	12,700 * 13,700	12,100											
155	11,600 * 13,100	11,400											
160	10,800 * 12,400	10,900											
165	11,700	10,200	7,800										
170	11,100 * 9,700	7,800											
175	10,100 * 9,100	7,700											
180	9,400 * 8,700	7,100											
185	8,200	6,800											
190	7,800	6,300											
195	7,300	6,000											
200	6,900	5,600											
205	6,600	5,200											
210	4,900												

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

127' Boom							85 ft Jib						
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40	78,000 *						40						
45	71,000 *						45						
50	64,000 *						50	64,000 *					
55	59,000 *						55	58,000 *					
60	53,100 *	56,100					60	53,700 *	55,600				
65	46,000 *	50,900					65	46,900 *	50,400				
70	40,300 *	46,200					70	41,200 *	45,900				
75	35,400 *	42,400	38,900				75	36,500 *	42,100				
80		39,000	36,100				80	32,600 *	38,600	35,300			
85		36,100	33,300				85	29,100 *	35,800	32,900			
90		33,600	31,000	28,100			90		33,200	30,600			
95		29,100 *	28,900	26,700			95		31,000	28,500	25,700		
100			27,100	25,000			100		27,900 *	26,700	24,500		
105			25,300	23,400	20,800		105		24,000 *	25,100	23,100		
110				22,000	20,000		110			23,500	21,700		
115				20,700	18,800		115			22,100	20,500	17,900	
120				19,500	17,800		120				19,200	17,400	
125				16,800	14,500		125				18,100	16,400	
130				15,800	14,300		130				17,100	15,500	13,100
135					13,500		135					14,700	13,000
140					12,600		140					13,900	12,300
145							145						11,600
150							150						10,900
155							155						
127' Boom													
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40							40						
45							45						
50	61,600 *						50	55,200 *					
55	58,000 *						55	52,000 *					
60	54,000 *						60	47,300 *					
65	47,100 *	49,800					65	41,800 *					
70	41,600 *	45,500					70	37,200 *	41,400				
75	37,000 *	41,600					75	33,500 *	38,100				
80	33,000 *	38,300					80	29,900 *	35,200				
85	29,700 *	35,400	32,200				85	27,100 *	32,700				
90	26,600 *	32,900	30,200				90	24,600 *	30,500	28,200			
95	24,000 *	30,700	28,200				95	22,200 *	28,500	26,300			
100		28,700	26,300				100	20,200 *	26,500 *	24,800	21,800		
105		25,900 *	24,600				105		24,000 *	23,200	21,000		
110		23,300 *	23,200	21,200			110		21,800 *	21,900	19,800		
115		20,000 *	21,900	20,000			115		19,600 *	20,700	18,700		
120			20,600	18,900	16,500		120			19,600	17,600	15,200	
125			19,500	17,800	16,000		125			18,500	16,700	14,900	
130				16,900	15,200		130			17,500	15,800	14,100	
135				16,000	14,400		135				14,900	13,400	
140				13,600	11,500		140				14,200	12,600	
145				12,800	11,100		145					12,000	10,200
150				12,200	10,500		150					11,300	9,700
155					9,900		155					10,600	9,100
160							160						8,500
165							165						
170							170						
175							175						

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

127' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
55	50,000 *						55	46,000 *					
60	48,000 *						60	44,000 *					
65	46,700 *						65	42,000 *					
70	42,100 *						70	40,500 *					
75	37,400 *	40,700					75	37,900 *					
80	33,500 *	37,800					80	33,900 *	37,400				
85	30,200 *	34,900					85	30,600 *	34,600				
90	27,300 *	32,500					90	27,500 *	32,000				
95	24,900 *	30,300	27,300				95	25,100 *	29,800				
100	22,700 *	28,300	26,100				100	22,900 *	27,900	25,300			
105	20,700 *	26,500	24,400				105	20,900 *	26,100 *	24,100			
110	18,700 *	24,300 *	23,000				110	18,900 *	24,300 *	22,700			
115	17,100 *	22,200 *	21,700	19,500			115	17,400 *	22,200 *	21,300			
120		20,200 *	20,500	18,400			120	15,800 *	20,200 *	20,100	17,400		
125		18,500 *	19,400	17,400			125	14,300 *	18,700 *	19,000	17,000		
130		16,700 *	18,400	16,500			130		17,100 *	17,900	16,000		
135			17,400	15,600	13,800		135		15,600 *	17,000	15,200		
140			16,500	14,800	13,100		140		14,300 *	16,200	14,400	12,200	
145				14,100	12,400		145			15,400	13,700	11,900	
150				13,300	11,700		150			14,600	13,000	11,200	
155				12,600	11,100	9,200	155			13,800 *	12,400	10,600	
160					10,500	8,800	160				11,700	10,000	8,100
165						8,300	165				9,500	7,900	
170						7,900	170				9,000	7,400	
175						7,400	175				8,400	7,000	
180						180						6,600	
185						185							
127' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	41,000 *						60	37,500 *					
65	39,500 *						65	36,000 *					
70	38,000 *						70	34,700 *					
75	36,700 *						75	33,000 *					
80	35,000 *	36,800					80	32,000 *					
85	31,300 *	34,200					85	30,700 *	33,500				
90	28,200 *	31,800					90	28,200 *	31,500				
95	25,700 *	29,600					95	25,500 *	29,400				
100	23,300 *	27,600					100	23,300 *	27,400				
105	21,300 *	25,900					105	21,300 *	25,600	22,800			
110	19,600 *	24,100 *	22,300				110	19,600 *	23,900 *	22,100			
115	18,000 *	22,200 *	21,000				115	18,000 *	22,100 *	20,800			
120	16,500 *	20,500 *	19,800				120	16,500 *	20,200 *	19,600			
125	15,200 *	18,700 *	18,700	16,000			125	15,200 *	18,700 *	18,500			
130	13,800 *	17,100 *	17,700	15,800			130	14,100 *	17,100 *	17,500			
135	12,500 *	15,800 *	16,800	14,900			135	12,700 *	15,800 *	16,600	14,600		
140		14,500 *	15,900	14,200			140	11,600 *	14,500 *	15,700	13,800		
145		13,200 *	15,200	13,400	10,800		145	10,800 *	13,400 *	14,900	13,200		
150			14,400	12,700	10,800		150		12,300 *	14,200	12,500	9,800	
155			13,700	12,100	10,300		155		11,200 *	13,500	11,900	9,800	
160			13,100	11,500	9,800		160		10,300 *	12,800	11,200	9,400	
165			12,200 *	10,900	9,200	7,000	165			12,200	10,600	8,900	
170				10,300	8,700	6,800	170			11,500 *	10,100	8,400	
175					9,800	8,200	6,700	175		10,300 *	9,500	7,900	6,000
180						7,800	6,200	180			9,100	7,400	5,900
185						7,300	5,900	185				7,100	5,600
190							5,600	190				6,700	5,200
195							5,100	195				6,200	4,900
200							200					4,600	

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

127' Boom							165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
65							65						
70	32,500 *						70	29,700 *					
75	31,000 *						75	28,500 *					
80	30,000 *						80	27,200 *					
85	28,800 *						85	26,200 *					
90	27,200 * 30,800						90	25,200 *					
95	25,300 * 28,900						95	24,300 * 28,600					
100	23,100 * 27,000						100	22,900 * 26,700					
105	21,100 * 25,200 *						105	20,900 * 25,000					
110	19,400 * 23,300 *						110	19,100 * 23,200 *					
115	17,800 * 21,800 * 20,100						115	17,600 * 21,600 *					
120	16,300 * 20,000 * 19,100						120	16,300 * 20,000 * 18,500					
125	14,900 * 18,500 * 18,100						125	14,900 * 18,500 * 17,800					
130	13,800 * 16,900 * 17,100						130	13,800 * 16,900 * 16,800					
135	12,700 * 15,600 * 16,200	13,500					135	12,700 * 15,600 * 15,900					
140	11,600 * 14,500 * 15,400	13,500					140	11,600 * 14,500 * 15,100	12,300				
145	10,800 * 13,200 * 14,500	12,700					145	10,800 * 13,200 * 14,300	12,300				
150	9,900 * 12,300 * 13,800	12,100					150	8,500 * 12,300 * 13,600	11,700				
155	8,800 * 11,200 * 13,200	11,400					155	11,200 * 12,800	11,100				
160	10,300 * 12,500	10,800	8,400				160	10,300 * 12,300	10,400				
165	9,400 * 11,900	10,200	8,300				165	11,600	9,900				
170	11,300	9,700	7,900				170	11,100	9,300				
175	10,600 * 9,100	7,400					175	10,500	8,900	7,100			
180	9,700 * 8,700	7,000					180	9,700 * 8,300	6,700				
185		8,200	6,700				185	9,000 * 7,900	6,300				
190		7,800	6,200				190		7,400	5,900			
195		7,300	5,900				195		7,000	5,600			
200			5,500				200		6,700	5,200			
205							205			4,900			
210							210						

127' Boom							175 ft Jib						
Load Radius (ft.)	175 ft Jib							175 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63							
65													
70													
75	26,500 *												
80	25,300 *												
85	24,500 *												
90	23,500 *												
95	22,500 *												
100	21,800 * 26,000												
105	20,700 * 24,800												
110	18,900 * 23,500												
115	17,400 * 22,100												
120	16,000 * 20,900	17,800											
125	14,700 * 19,500 *	17,600											
130	13,600 * 17,800 *	16,600											
135	12,500 * 16,500 *	15,600											
140	10,800 * 15,200 *	14,800											
145	14,100 * 14,100	11,200											
150	13,000 * 13,300	11,200											
155	11,900 * 12,600	10,800											
160	11,000 * 12,000	10,100											
165	11,400	9,500											
170	10,900	9,000											
175	10,300	8,500											
180		9,800	8,000										
185		9,000 *	7,600										
190			7,200										
195			6,800										
200			6,300										
205			6,000										
210													

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

137' Boom							85 ft Jib							
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib						
	Boom Angle							Boom Angle						
	88	83	78	73	68	63		88	83	78	73	68	63	
40	72,000 *						40							
45	69,100 *						45							
50	63,600 *						50	62,000 *						
55	58,000 *						55	58,200 *						
60	53,000 *	55,500					60	53,000 *						
65	46,500 *	50,400					65	47,300 *						
70	40,700 *	45,800					70	41,600 *	45,500					
75	35,700 *	41,900					75	36,800 *	41,600					
80	31,500 *	38,600	35,300				80	32,600 *	38,300	34,700				
85		35,800	32,800				85	29,100 *	35,400	32,400				
90		33,200	30,400				90		32,900	30,000				
95		30,600	28,400	25,400			95		30,700	27,900				
100			26,500	24,200			100		28,700	26,200	23,200			
105			24,900	22,800			105		25,500 *	24,500	22,300			
110			23,300	21,300			110			23,100	21,000			
115				20,100	18,000		115			21,700	19,800			
120				18,900	17,000		120				18,700	16,600		
125					16,000	13,500	125				17,600	15,700		
130					15,200	13,300	130				16,600	14,800		
135						12,500	135					14,100	11,400	
140						11,700	140					13,300	11,300	
145						11,100	145						10,600	
150							150						10,100	
155							155							
137' Boom							105 ft Jib							
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib						
	Boom Angle							Boom Angle						
	88	83	78	73	68	63		88	83	78	73	68	63	
40							40							
45							45							
50	56,800 *						50							
55	54,400 *						55	51,000 *						
60	52,500 *						60	49,000 *						
65	47,600 *						65	47,200 *						
70	41,800 *	45,000					70	42,100 *						
75	37,200 *	41,200					75	37,400 *	41,000					
80	33,200 *	38,000					80	33,500 *	37,600					
85	29,700 *	35,100	31,600				85	30,200 *	34,800					
90	26,800 *	32,600	29,600				90	27,300 *	32,400					
95	24,000 *	30,400	27,600				95	24,600 *	30,200	27,200				
100		28,400	25,700				100	22,400 *	28,200	25,900				
105		26,500	24,200	21,300			105	20,200 *	26,400	24,200				
110		23,800 *	22,700	20,600			110		24,400 *	22,800				
115		21,300 *	21,300	19,400			115		22,200 *	21,400	19,100			
120			20,100	18,200			120		20,200 *	20,200	18,000			
125			19,000	17,300	14,600		125			19,100	17,000			
130			17,900	16,400	14,400		130			18,100	16,200			
135				15,500	13,600		135			17,100	15,300	13,000		
140					12,800	10,200	140				14,500	12,500		
145					12,200	10,200	145				13,700	11,900	9,200	
150					11,400	9,700	150				13,000	11,200	9,200	
155						9,100	155					10,600	8,800	
160						8,500	160						8,200	
165							165						7,800	
170							170							
175							175							

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

137' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
55	47,000 *						55						
60	45,000 *						60	42,000 *					
65	43,200 *						65	40,500 *					
70	41,000 *						70	39,000 *					
75	37,600 *	40,300					75	37,200 *					
80	33,700 *	37,400					80	34,100 *	36,700				
85	30,400 *	34,600					85	30,600 *	34,200				
90	27,500 *	32,100					90	27,700 *	31,700				
95	24,900 *	29,900					95	25,100 *	29,500				
100	22,700 *	27,900	25,000				100	22,900 *	27,600	24,400			
105	20,700 *	26,200	24,000				105	20,900 *	25,900	23,500			
110	18,900 *	24,600	22,500				110	19,100 *	24,300	22,100			
115	17,100 *	22,700 *	21,200				115	17,400 *	22,700	20,800			
120		20,700 *	20,000	17,200			120	15,800 *	20,700 *	19,700	16,700		
125		18,900 *	18,900	16,800			125		18,900 *	18,600	16,400		
130		17,100 *	17,900	15,800			130		17,400 *	17,600	15,500		
135		15,400 *	16,900	15,100			135		15,800 *	16,600	14,600		
140			16,200	14,300	12,000		140		14,500 *	15,800	13,800		
145			15,300	13,500	11,500		145		14,900	13,200			
150				12,800	11,000		150		14,300	12,500	10,400		
155				12,200	10,300	7,800	155		13,500	11,900	9,900		
160					9,800	7,800	160			11,200	9,300	6,700	
165					9,200	7,400	165			10,600	8,800	6,700	
170					8,800	7,000	170			10,100	8,300	6,600	
175						6,700	175				7,900	6,100	
180						6,200	180					5,800	
185							185						5,500
137' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	38,800 *						60	35,500 *					
65	37,000 *						65	34,000 *					
70	35,800 *						70	32,600 *					
75	34,300 *						75	31,500 *					
80	33,000 *						80	30,000 *					
85	31,300 *						85	29,000 *	33,200				
90	28,400 *	31,500					90	27,800 *	31,100				
95	25,700 *	29,300					95	25,700 *	28,900				
100	23,500 *	27,300					100	23,500 *	27,100				
105	21,600 *	25,600	22,500				105	21,600 *	25,300				
110	19,800 *	24,000	21,800				110	19,600 *	23,800				
115	18,000 *	22,400 *	20,600				115	18,000 *	22,100 *	20,000			
120	16,500 *	20,800 *	19,400				120	16,500 *	20,700 *	19,100			
125	15,200 *	19,100 *	18,200	15,400			125	15,200 *	18,900 *	18,000			
130	13,800 *	17,600 *	17,300	15,200			130	14,100 *	17,600 *	17,000			
135	12,700 *	16,000 *	16,400	14,400			135	13,000 *	16,000 *	16,200	13,700		
140		14,700 *	15,500	13,600			140	11,900 *	14,700 *	15,300	13,300		
145		13,600 *	14,700	12,800	9,900		145	10,800 *	13,600 *	14,500	12,600		
150		12,300 *	14,100	12,200	9,900		150		12,500 *	13,800	11,900		
155		11,000 *	13,400	11,500	9,500		155		11,400 *	13,200	11,200	8,300	
160			12,700	11,000	9,000		160		10,500 *	12,500	10,600	8,300	
165				10,300	8,400		165			11,900	10,100	8,100	
170				9,900	8,000		170			11,300	9,500	7,700	
175				9,300	7,600		175			10,600 *	9,000	7,200	
180					7,100		180				8,500	6,800	
185					6,700		185				8,100	6,500	
190					6,300		190				7,700	6,000	
195							195					5,700	
200							200						

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

137' Boom								165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib						
	Boom Angle							Boom Angle						
	88	83	78	73	68	63		88	83	78	73	68	63	
65							65							
70	30,600 *						70	28,000 *						
75	29,200 *						75	27,000 *						
80	28,000 *						80	26,000 *						
85	27,200 *						85	25,000 *						
90	26,200 *						90	24,000 *						
95	25,000 *	28,600					95	23,000 *	27,200					
100	23,300 *	26,700					100	22,000 *	26,000					
105	21,300 *	25,000					105	21,100 *	24,600					
110	19,400 *	23,400					110	19,400 *	23,100					
115	17,800 *	21,800 *	19,100				115	17,800 *	21,600 *					
120	16,500 *	20,200 *	18,700				120	16,300 *	20,000 *	18,000				
125	15,200 *	18,900 *	17,700				125	14,900 *	18,700 *	17,400				
130	13,800 *	17,400 *	16,700				130	13,800 *	17,400 *	16,400				
135	12,700 *	16,000 *	15,800				135	12,700 *	15,800 *	15,500				
140	11,600 *	14,700 *	14,900	12,700			140	11,600 *	14,700 *	14,700				
145	10,800 *	13,600 *	14,200	12,100			145	10,800 *	13,400 *	13,900				
150	9,900 *	12,500 *	13,400	11,400			150	8,300 *	12,500 *	13,200	11,100			
155	9,000 *	11,400 *	12,700	10,800			155		11,400 *	12,500	10,400			
160		10,500 *	12,200	10,200			160		10,500 *	11,900	9,900			
165		9,700 *	11,500	9,700			165		9,700 *	11,300	9,300			
170		8,800 *	11,000	9,100			170		8,800 *	10,800	8,800			
175		7,400 *	10,400	8,500			175			10,200	8,300			
180			10,000	8,100			180			9,700	7,800			
185				7,700			185			9,200	7,300			
190				7,200			190			8,400 *	7,000			
195				6,900			195				6,600			
200							200				6,200			
205							205					5,800		
210							210							
137' Boom														
Load Radius (ft.)	175 ft Jib													
	Boom Angle													
	88	83	78	73	68	63								
65														
70														
75	25,400 *													
80	24,500 *													
85	23,500 *													
90	22,600 *													
95	21,800 *													
100	21,000 *	25,500												
105	20,000 *	23,800												
110	18,900 *	22,800												
115	17,600 *	21,900												
120	16,000 *	20,600												
125	14,700 *	19,500												
130	13,600 *	18,100 *	16,000											
135	12,700 *	16,700 *	15,300											
140	10,800 *	15,400 *	14,400											
145		14,300 *	13,600											
150		13,200 *	13,000											
155		12,100 *	12,300	9,700										
160		11,200 *	11,600	9,500										
165			11,100	9,000										
170			10,400	8,400										
175			9,900	8,000										
180			9,400	7,600										
185			8,900	7,100										
190				6,700										
195				6,200										
200				5,900										
205				5,600										
210				5,200										

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

147' Boom							85 ft Jib						
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40	66,200 *						40						
45	63,800 *						45						
50	60,800 *						50	57,000 *					
55	58,600 *						55	55,000 *					
60	54,000 *	55,000					60	52,500 *					
65	46,900 *	49,900					65	47,600 *					
70	41,000 *	45,400					70	41,800 * 45,000					
75	36,100 *	41,600					75	37,000 * 41,200					
80		38,300	34,300				80	32,800 * 37,900					
85		35,400	32,100				85	29,300 * 35,100					
90		32,900	29,800				90		32,600 29,400				
95		30,600	27,800				95		30,400 27,400				
100			26,000	23,200			100		28,400 25,600				
105			24,300	22,000			105			24,000			
110			22,900	20,700			110			22,500	20,300		
115				19,500			115			21,200	19,100		
120				18,400	16,000		120				18,000	15,200	
125				17,300	15,300		125				17,000	14,800	
130					14,500	11,500	130				16,000	14,100	
135					13,600	11,500	135					13,200	
140						10,900	140					12,500	
145							145					11,700	9,700
150							150						9,100
155							155						8,500
147' Boom							85 ft Jib						
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40							40						
45							45						
50	52,400 *						50						
55	50,500 *						55	47,700 *					
60	48,500 *						60	45,800 *					
65	47,000 *						65	44,000 *					
70	42,300 *	44,600					70	41,500 *					
75	37,400 *	40,700					75	37,600 * 40,500					
80	33,500 *	37,500					80	33,700 * 37,300					
85	29,900 *	34,700					85	30,400 * 34,500					
90	26,800 *	32,200	28,600				90	27,300 * 32,000					
95	24,200 *	30,000	27,300				95	24,900 * 29,800	26,700				
100		28,100	25,500				100	22,400 * 27,800	25,200				
105		26,300	24,000				105		26,100 23,600				
110		24,400 *	22,400	19,900			110		24,500 22,200				
115		21,800 *	21,200	18,700			115		22,700 * 21,000	17,800			
120			20,000	17,700			120		20,700 * 19,800	17,400			
125			18,900	16,700	13,600		125			18,700 16,400			
130			17,800	15,700	13,500		130			17,700 15,500			
135				14,900	12,700		135			16,700 14,700	12,000		
140				14,200	12,000		140				13,900	11,700	
145				13,400	11,300	8,500	145				13,200	11,100	
150					10,800	8,500	150				12,500	10,400	
155					10,100	8,100	155					9,900	7,600
160						7,700	160						7,300
165							165						6,900
170							170						6,500
175							175						6,100

## CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

147' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
55	44,000 *						55						
60	42,100 *						60	39,300 *					
65	40,500 *						65	38,000 *					
70	39,000 *						70	36,500 *					
75	37,000 *						75	35,000 *					
80	34,000 * 37,000						80	33,500 * 36,200					
85	31,000 * 34,200						85	31,700 * 33,800					
90	27,500 * 31,700						90	28,600 * 31,400					
95	25,200 * 29,600						95	26,000 * 29,200					
100	23,000 * 27,600		24,500				100	23,500 * 27,300					
105	21,100 * 25,900		23,400				105	21,600 * 25,500					
110	19,100 * 24,300		22,000				110	19,800 * 24,000		21,600			
115	17,300 * 22,900		20,700				115	18,000 * 22,500		20,300			
120		21,100 * 19,600	16,500				120	16,500 * 21,200 *	19,100				
125		19,100 * 18,500	16,200				125	14,900 * 19,400 *	18,100				
130		17,600 * 17,500	15,300				130		17,800 * 17,100	14,600			
135		15,800 * 16,600	14,500				135		16,300 * 16,300	14,100			
140		15,700	13,700	10,600			140		14,700 * 15,400	13,300			
145		14,900	13,000	10,600			145		14,600	12,500	9,400		
150		14,200	12,300	10,100			150		13,800	11,900	9,400		
155			11,600	9,500			155		13,200	11,200	9,100		
160			11,100	9,000	6,300		160			10,600	8,500		
165				8,500	6,300		165			10,100	8,000		
170				8,000	6,200		170			9,500	7,600		
175				7,600	5,800		175				7,100		
180					5,500		180				6,800		
185							185				6,300		
147' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	36,200 *						60	33,600 *					
65	34,800 *						65	32,000 *					
70	33,500 *						70	31,000 *					
75	32,200 *						75	29,800 *					
80	31,000 *						80	28,500 *					
85	30,000 *						85	27,500 *					
90	28,000 * 31,000						90	26,300 * 30,800					
95	26,000 * 28,900						95	25,400 * 28,600					
100	23,500 * 27,000						100	23,500 * 26,700					
105	21,600 * 25,300		22,000				105	21,600 * 25,000					
110	19,800 * 23,800		21,300				110	19,800 * 23,400					
115	18,000 * 22,300		20,000				115	18,000 * 21,900 *	19,500				
120	16,700 * 20,800 *	18,900					120	16,700 * 20,500 *	18,600				
125	15,200 * 19,400 *	17,800					125	15,400 * 19,400 *	17,600				
130	13,800 * 17,800 *	16,800					130	14,100 * 17,800 *	16,600				
135	12,700 * 16,300 *	15,900	13,300				135	13,000 * 16,500 *	15,700				
140	14,900 * 15,200		13,000				140	11,900 * 15,200 *	14,900		12,000		
145	13,800 * 14,400		12,200				145		13,800 * 14,200	11,900			
150	12,500 * 13,600		11,500	8,400			150		12,700 * 13,400	11,200			
155	11,400 * 13,000		11,000	8,400			155		11,600 * 12,700	10,600			
160		12,400	10,300	8,200			160		10,800 * 12,200	10,000	7,300		
165		11,700	9,800	7,800			165			11,500	9,400	7,300	
170		11,200	9,200	7,200			170			11,000	9,000	6,900	
175			8,800	6,900			175			10,400	8,400	6,600	
180			8,300	6,500			180				8,000	6,100	
185				6,000			185				7,600	5,800	
190				5,700			190					5,400	
195							195					5,000	
200							200					4,700	

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

147' Boom							165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
65							65						
70	29,200 *						70	26,800 *					
75	28,000 *						75	25,600 *					
80	26,800 *						80	24,700 *					
85	25,800 *						85	23,800 *					
90	24,800 *						90	23,000 *					
95	24,000 * 28,200						95	22,000 * 26,000					
100	23,000 * 26,400						100	21,000 * 24,800					
105	21,300 * 24,600						105	20,400 * 24,000					
110	19,600 * 23,100						110	19,400 * 23,000					
115	18,000 * 21,700						115	17,800 * 21,900					
120	16,500 * 20,200 * 17,700						120	16,300 * 20,600 17,000					
125	15,200 * 18,900 * 17,100						125	14,900 * 19,400 16,800					
130	13,800 * 17,600 * 16,300						130	13,800 * 18,400 15,800					
135	12,900 * 16,300 * 15,400						135	12,700 * 17,300 * 15,100					
140	11,900 * 14,900 * 14,500 11,200						140	11,600 * 15,900 * 14,100					
145	10,800 * 13,800 * 13,700 11,200						145	10,800 * 14,700 * 13,400 10,100					
150	9,900 * 12,700 * 13,100 10,800						150	8,100 * 13,600 * 12,700 10,100					
155	9,000 * 11,600 * 12,400 10,100						155	12,500 * 12,100 9,800					
160	10,800 * 11,700 9,500						160	11,400 * 11,400 9,200					
165	9,900 * 11,200 9,000						165	10,500 * 10,800 8,700					
170	9,000 * 10,600 8,500						170	9,700 * 10,100 8,200					
175	10,000 8,000						175	9,500 * 7,700					
180	9,400 7,600						180	9,000 * 7,200					
185	8,800 7,100						185	8,500 * 6,900					
190	6,800						190	8,100 * 6,500					
195	6,300						195	6,500 * 6,100					
200	6,000						200						5,700
205							205						5,400
210							210						

147' Boom							175 ft Jib						
Load Radius (ft.)	175 ft Jib							175 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63							
65													
70													
75	24,000 *												
80	23,000 *												
85	22,200 *												
90	21,500 *												
95	20,500 *												
100	19,800 * 23,500												
105	19,000 * 22,500												
110	18,200 * 21,800												
115	17,600 * 21,000												
120	16,300 * 20,000												
125	14,900 * 19,100												
130	13,600 * 18,100 15,000												
135	12,600 * 16,900 * 14,500												
140	15,800 * 13,600												
145	14,500 * 13,000 *												
150	13,400 * 12,100 *												
155	12,300 * 11,400 * 9,100												
160	11,400 * 11,000 * 8,900												
165	10,500 * 10,300 * 8,300												
170	9,700 * 7,900												
175	9,200 * 7,400												
180	8,800 * 7,000												
185	8,300 * 6,600												
190	7,700 * 6,100												
195	5,800												
200	5,500												
205	5,000												
210													

## CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

157' Boom							85 ft Jib						
Load Radius (ft.)	75 ft Jib						Load Radius (ft.)	85 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
40	60,700	*					40						
45	59,000	*					45						
50	56,300	*					50	52,500	*				
55	54,200	*					55	50,700	*				
60	52,000	*	54,300				60	48,500	*				
65	47,300	*	49,300				65	46,700	*				
70	41,400	*	44,800				70	42,100	*	44,500			
75	36,300	*	41,100				75	37,200	*	40,700			
80		37,900	33,500				80	33,000	*	37,400			
85		35,000	31,300				85		34,700	30,400			
90		32,500	29,100				90		32,100	28,600			
95		30,300	27,100				95		30,000	26,600			
100		25,300	21,900				100		28,100	25,000			
105		23,800	21,100				105		26,300	23,300	20,000		
110		22,200	19,900				110		22,900	22,000	19,500		
115			18,700				115			20,700	18,200		
120			17,600	14,400			120			19,500	17,300		
125			16,600	14,200			125			18,400	16,300	13,000	
130				13,400			130				15,400	12,800	
135				12,600			135				14,500	12,200	
140					9,200		140					11,400	
145					9,000		145					10,800	
150					8,400		150					10,100	8,000
155							155						7,400
160							160						7,000

157' Boom							105 ft Jib						
Load Radius (ft.)	95 ft Jib						Load Radius (ft.)	105 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
50	48,500	*					50						
55	46,600	*					55	44,000	*				
60	44,800	*					60	42,000	*				
65	43,000	*					65	40,700	*				
70	41,000	*					70	39,000	*				
75	37,600	*	40,300				75	37,000	*	40,000			
80	33,700	*	37,100				80	33,900	*	36,800			
85	30,200	*	34,200				85	30,600	*	34,000			
90	27,100	*	31,800				90	27,500	*	31,600			
95	24,400	*	29,600	26,000			95	24,900	*	29,400			
100		27,700	24,900				100	22,400	*	27,500	24,000		
105		26,000	23,300				105	20,500	*	25,700	23,000		
110		24,400	21,900				110		24,200	21,700			
115		22,400	*	20,600	17,600		115		22,800	20,300			
120			19,500	16,800			120		21,100	*	19,200	16,100	
125			18,400	15,900			125		18,900	*	18,100	15,600	
130			17,200	15,100			130		16,300	*	17,100	14,800	
135				14,200	11,300		135			16,300	13,900		
140				13,500	11,000		140			15,400	13,200	10,100	
145				12,700	10,300		145				12,500	10,000	
150					9,800		150				11,900	9,400	
155					9,200	6,600	155				11,200	8,900	
160						6,600	160					8,300	5,800
165						6,100	165					7,900	5,800
170							170						5,500
175							175						5,000
180							180						
185							185						

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

157' Boom							125 ft Jib						
Load Radius (ft.)	115 ft Jib						Load Radius (ft.)	125 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
55	40,500 *						55						
60	39,000 *						60	36,800 *					
65	37,500 *						65	35,300 *					
70	36,000 *						70	34,000 *					
75	34,500 *						75	32,700 *					
80	33,000 * 36,000						80	31,500 * 35,700					
85	31,900 * 33,700						85	30,200 * 33,300					
90	28,800 * 31,300						90	28,500 * 30,900					
95	26,200 * 29,200						95	26,200 * 28,700					
100	23,800 * 27,300	23,500					100	23,800 * 26,800					
105	21,600 * 25,500	22,800					105	21,600 * 25,200	21,600				
110	19,600 * 24,000	21,300					110	19,800 * 23,600	21,000				
115	17,800 * 22,500	20,100					115	18,000 * 22,200	19,700				
120	21,300	19,000					120	16,500 * 20,800 * 18,600					
125	19,700 * 17,900						125	19,600 * 17,600					
130	17,800 * 16,900	14,400					130	18,000 * 16,600	13,900				
135	16,300 * 16,000	13,700	13,000				135	16,500 * 15,700	13,200				
140		14,500	12,200				140	15,200 * 14,900	12,400				
145		13,700	11,500	9,100			145	14,200	11,700				
150			11,000	8,500			150	13,400	11,100				
155			10,300	8,100			155	12,700	10,500	7,800			
160				7,600			160	12,000 *	9,900	7,600			
165				7,100			165		9,300	7,100			
170				6,800			170		8,900	6,700			
175							175		8,300	6,300			
180							180			5,900			
185							185				5,600		
157' Boom							145 ft Jib						
Load Radius (ft.)	135 ft Jib						Load Radius (ft.)	145 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
60	34,000 *						60						
65	32,700 *						65						
70	31,300 *						70	29,800 *					
75	30,000 *						75	28,800 *					
80	29,000 *						80	27,500 *					
85	28,000 *						85	26,500 *					
90	27,000 * 30,600						90	25,500 * 29,500					
95	25,600 * 28,500						95	24,500 * 28,000					
100	23,800 * 26,600						100	23,500 * 26,300					
105	21,800 * 24,900						105	21,600 * 24,600					
110	19,800 * 23,300						110	19,800 * 23,100					
115	18,200 * 22,000	19,100					115	18,200 * 21,700	18,400				
120	16,700 * 20,600 *	18,200					120	16,700 * 20,300 *	18,000				
125	15,400 * 19,400 *	17,300					125	15,400 * 18,900 *	17,000				
130	14,100 * 18,200 *	16,400					130	14,100 * 17,800 *	16,000				
135	12,700 * 16,700 *	15,500	12,400				135	13,000 * 16,700 *	15,200				
140		15,400 * 14,600	12,100				140	11,900 * 15,400 *	14,400	11,000			
145		14,100 * 13,900	11,400				145	14,100 * 13,600	11,000	11,000			
150		12,700 * 13,200	10,800				150	13,000 * 13,000	10,400	13,000			
155		11,600 * 12,500	10,200				155	11,900 * 12,300	9,900	11,900			
160		12,000	9,700	6,700			160	11,000 * 11,500 *	9,300	11,000			
165		11,200 *	9,100	6,700			165		8,800	10,300 *	8,200		
170			8,500	6,300			170		7,800	9,700 *	7,800		
175			8,100	6,000			175		7,300	9,000 *	7,300		
180			7,700	5,600			180		6,900	6,900			
185				5,200			185			6,600			
190				4,900			190			6,100			
195				4,400			195						
200							200						

# CK1600-II Luffing Jib Rated Loads in Pounds

11 Counterweights + 2 Low Weights

157' Boom							165 ft Jib						
Load Radius (ft.)	155 ft Jib						Load Radius (ft.)	165 ft Jib					
	Boom Angle							Boom Angle					
	88	83	78	73	68	63		88	83	78	73	68	63
65							65						
70	27,500 *						70	25,300 *					
75	26,500 *						75	24,500 *					
80	25,500 *						80	23,300 *					
85	24,400 *						85	22,500 *					
90	23,400 *						90	21,800 *					
95	22,500 *	26,700					95	20,700 *					
100	21,800 *	25,700					100	20,000 *	24,200				
105	21,000 *	24,600					105	19,300 *	23,300				
110	19,600 *	23,100					110	18,500 *	22,500				
115	18,000 *	21,800					115	17,800 *	21,400				
120	16,500 *	20,500	16,400				120	16,500 *	20,200				
125	15,200 *	19,400	16,300				125	15,200 *	19,100				
130	14,100 *	18,200	15,400				130	13,800 *	18,000	14,600 *			
135	12,700 *	17,300 *	14,500				135	12,700 *	16,800 *	14,100 *			
140	11,900 *	16,300 *	13,600 *				140	11,700 *	15,800 *	13,200 *			
145	10,800 *	14,900 *	13,000 *				145		14,900 *	12,500 *			
150	9,900 *	13,800 *	12,300 *	9,600			150		13,800 *	11,900 *			
155	9,000 *	12,700 *	11,600 *	9,300			155		12,700 *	11,200 *	8,500		
160		11,600 *	11,000 *	8,800			160		11,600 *	10,500 *	8,400		
165		10,800 *	10,300 *	8,300			165		10,800 *	9,900 *	8,000		
170		9,700 *	9,900 *	7,800			170			9,400 *	7,400		
175		8,800 *	9,200 *	7,300			175			8,800 *	7,000		
180			8,800 *	6,900			180			8,300 *	6,600		
185			8,100 *	6,600			185			7,900 *	6,200		
190				6,100			190			7,400 *	5,800		
195				5,800			195			6,800 *	5,500		
200				5,400			200				5,100		
205							205					4,800	
210							210						
157' Boom													
Load Radius (ft.)	175 ft Jib												
	Boom Angle												
	88	83	78	73	68	63							
65													
70													
75	23,000 *												
80	22,200 *												
85	21,300 *												
90	20,500 *												
95	19,700 *												
100	19,000 *	22,500											
105	18,300 *	21,500											
110	17,600 *	20,800											
115	17,000 *	20,000											
120	16,000 *	19,200											
125	14,900 *	18,500	14,100 *										
130	13,700 *	17,800	14,100 *										
135	12,700 *	16,600 *	13,600 *										
140		15,600 *	12,700 *										
145		14,700 *	12,000 *										
150		13,600 *	11,300 *										
155		12,500 *	10,700 *	7,700									
160		11,600 *	10,100 *	7,700									
165			9,600 *	7,600									
170			9,000 *	7,000									
175			8,500 *	6,700									
180			8,100 *	6,200									
185			7,400 *	5,900									
190			7,000 *	5,500									
195			6,600 *	5,100									
200				4,800									
205													
210													

# CK1600-II Luffing Jib

*Note: Due to our policy of continual product improvement, all designs and specifications are subject to change without advance notice. Pictures inside this publication may show machines with optional equipment. This manual and the specifications herein were prepared for the market served by Kobelco Cranes North America Inc., including North America and Latin America. Kobelco product specifications in other world markets may differ.*

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