

BOOM LOAD CAPACITIES (LBS) WITH FULL SPAN OUTRIGGERS (24 FT)

LOAD RADIUS (FT)	31 FT BOOM		52 FT BOOM		68 FT BOOM		84 FT BOOM		103 FT BOOM		
	45°	50°	45°	50°	45°	50°	45°	50°	45°	50°	
5	76	76000									
8	71	62000									
10	67	54000	77	35000							
13	61	45700	74	33000	78	33000					
15	56	40200	71	31500	76	31500					
17	51	34600	68	30500	74	30100	78	24500			
20	44	28400	65	29000	72	27300	76	21000	79	14500	
25	28	21300	58	22000	67	22200	72	18500	76	14000	
30			51	17300	62	17600	68	16000	73	13000	
35			44	13700	57	14000	65	14000	71	11500	
40			35	11000	52	11200	61	11200	68	10300	
45			23	8700	46	8900	57	9000	65	9200	
50					39	7600	52	7400	62	7500	
55					33	6300	47	6200	58	6300	
60					23	5200	43	5100	55	5200	
65							37	4200	51	4500	
70							30	3500	47	3800	
75							23	2900	43	3200	
80							9	2300	39	2600	
85									33	2100	
90									27	1600	
95									19	1300	
0	16000	0	6500	0	4200	0	1600	0	800	0	800
630		380		290		240		200			
810		490		370		300		250			

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

AREA OF OPERATION

360° CAPACITY WORKING AREA WITH FULL SPAN AND FRONT BUMPER OUTRIGGERS

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

OVERHAUL BALL: 230 LBS

1-SHEAVE LOADBLOCK: 360 LBS

2-SHEAVE LOADBLOCK: 500 LBS

3-SHEAVE LOADBLOCK: 600 LBS

0° BOOM CAPACITIES

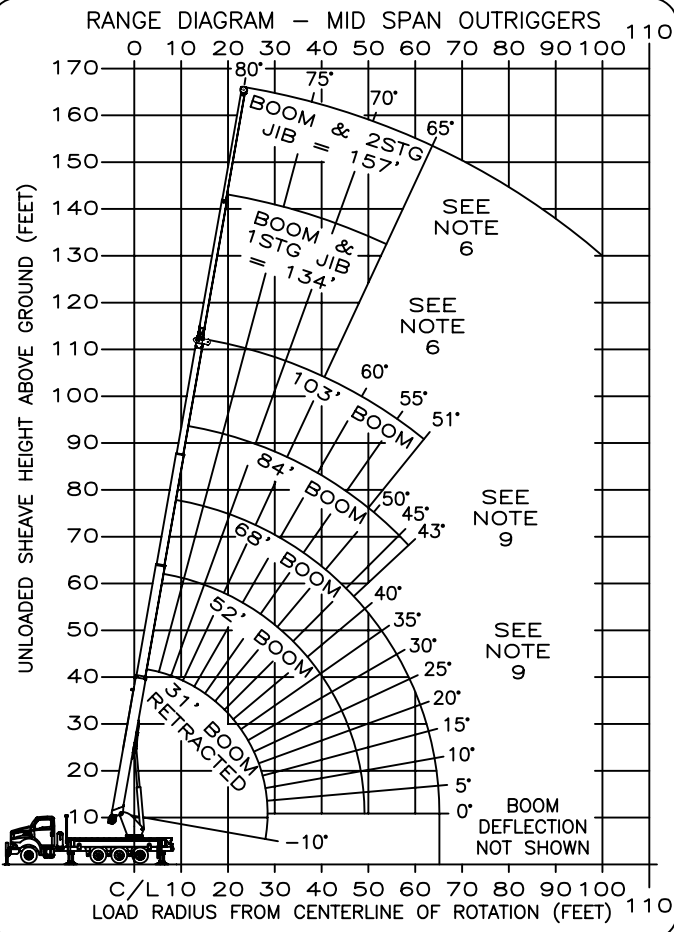
STOWED 1-STAGE JIB LOAD DEDUCTIONS

STOWED 2-STAGE JIB LOAD DEDUCTIONS

JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS. JIB CAPACITIES ARE FOR FULL SPAN OUTRIGGERS (24 FT)

LOADED BOOM ANGLE	45°*	50°	55°	60°	65°	70°	75°	80°
FIXED 31 FT JIB	1430	1990	2700	3700	4650	5500	6000	6600
TELESCOPING JIB								
RETRACTED 31 FT JIB	900	1400	2100	3100	4100	5200	5700	6400
EXTENDED 55 FT JIB	600	1050	1600	1850	2300	3000	3400	3600

\* DO NOT OPERATE JIBS BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 6.



BOOM LOAD CAPACITIES (LBS) WITH MID SPAN OUTRIGGERS (15 FT 8 IN)

LOAD RADIUS (FT)	31 FT BOOM		52 FT BOOM		68 FT BOOM		84 FT BOOM		103 FT BOOM	
	45°	50°	45°	50°	45°	50°	45°	50°	45°	50°
5	77	70000								
8	71	55000								
10	68	48000	77	34000						
13	62	39300	74	30100	78	32000				
15	57	33500	71	27500	76	28000	79	24000		
17	52	28800	69	25100	74	25200	78	21600		
20	44	21800	65	21500	72	21000	76	18000	79	14000
25	28	13700	58	13500	67	14000	72	11500	76	12750
30			52	9000	62	9600	68	7500	73	10000
35			44	6300	57	6700	65	5400	71	7300
40			35	4500	52	4900	61	4000	68	5400
45			23	3000	46	3600	57	3000	65	4050
50					40	2800	52	2100	62	3000
55					33	1800	47	1400	58	2100
60					23	1000	43	900	55	1400
65									51	900
0	9000	0	2100	0	500					
630		380		290		240		200		
810		490		370		300		250		

NOTE: RATINGS ABOVE THE HEAVY LINE ARE BASED ON STRUCTURAL COMPETENCE AND NOT ON MACHINE STABILITY

AREA OF OPERATION

360° CAPACITY WORKING AREA WITH MID SPAN AND FRONT BUMPER OUTRIGGERS

DEDUCTIONS FROM RATED LOADS FOR HANDLING DEVICES

OVERHAUL BALL: 230 LBS

1-SHEAVE LOADBLOCK: 360 LBS

2-SHEAVE LOADBLOCK: 500 LBS

3-SHEAVE LOADBLOCK: 600 LBS

0° BOOM CAPACITIES

STOWED 1-STAGE JIB LOAD DEDUCTIONS

STOWED 2-STAGE JIB LOAD DEDUCTIONS

JIB LOAD CAPACITIES (LBS) FOR ALL BOOM LENGTHS. JIB CAPACITIES ARE FOR MID SPAN OUTRIGGERS (15 FT 8 IN)

LOADED BOOM ANGLE	65°*	70°	75°	80°
FIXED 31 FT JIB	1400	2600	5300	6500
TELESCOPE JIB				
RETRACTED 31 FT JIB	1000	2100	4800	6200
EXTENDED 55 FT JIB	600	1500	2800	3000

\* DO NOT OPERATE JIBS BELOW THIS ANGLE UNLESS BOOM IS FULLY RETRACTED. SEE NOTE 6.

1 PART LOAD LINE	2 PART LOAD LINE	3 PART LOAD LINE	4 PART LOAD LINE	5 PART LOAD LINE	6 PART LOAD LINE
LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO	LOADS UP TO
12,971 LBS. IWRC XXIP	25,942 LBS. IWRC XXIP	38,913 LBS. IWRC XXIP	51,884 LBS. IWRC XXIP	64,855 LBS. IWRC XXIP	76,000 LBS. IWRC XXIP
9,080 LBS. ROT. RESISTANT WIRE ROPE	18,160 LBS. ROT. RESISTANT WIRE ROPE	27,240 LBS. ROT. RESISTANT WIRE ROPE	36,320 LBS. ROT. RESISTANT WIRE ROPE	45,400 LBS. ROT. RESISTANT WIRE ROPE	54,480 LBS. ROT. RESISTANT WIRE ROPE
103 FT + 55 FT JIB BOOM	103 FT BOOM	87 FT BOOM	68 FT BOOM	55 FT BOOM	46 FT BOOM

MAXIMUM BOOM LENGTH AT MAXIMUM ELEVATION WITH RIGGING SHOWN TO REACH THE GROUND

SEE OWNERS MANUAL FOR OTHER REEVING OPTIONS

With certain boom and hoist tackle combinations, maximum capacities may not be obtainable with standard cable lengths.

**CAUTION**

OPERATOR AIDS MUST BE IN GOOD OPERATING CONDITION BEFORE OPERATING CRANE. REFER TO OWNERS MANUAL.

KEEP AT LEAST 3 WRAPS OF LOADLINE ON DRUM AT ALL TIMES.

USE ONLY 5/8" DIAMETER IWRC OR ROTATION RESISTANT WIRE ROPE WITH 45,400 LBS. MIN. BREAKING STRENGTH ON THIS MACHINE.

- DANGER**
- The operator must read, understand and follow the instructions found in the owners manual before operating this crane.
  - Positioning or operation of crane beyond areas shown on this chart is not intended nor approved except where specified in owners manual.
  - Loaded boom angles at specified boom lengths give only an approximation of the operating radius. The boom angle before loading should be greater to account for deflections. Do not exceed the operating radius for rated loads.
  - When between listed boom lengths or radii, always use the smallest of the values shown. Capacities for the 31-ft boom length must only be lifted with boom fully retracted.
  - Do not attempt to tip the machine to determine allowable loads.
  - When jib is erected boom must be fully retracted before lowering below minimum boom with jib angles. Retracted boom with jib has no lifting capacity below a 45° angle with full span outriggers and below a 65° angle with mid span outriggers.
  - Use rating of next lower boom angle for boom angles not shown on jib load rating chart.
  - Do not lift off the main boom tip while the jib is erected. Do not travel with crane boom extended or jib erected.
  - Do not lower boom into this area. Instability may occur. Hydraulic pressure may not allow raising the boom without retracting boom first.
  - Crane load ratings on outriggers are based on freely suspended loads with the machine leveled and standing on firm uniform supporting surface. Do not move a load horizontally on the ground in any direction.
  - Actual working capacities depend on supporting surface, wind and other factors affecting stability such as hazardous surroundings, experience of personnel, and proper handling. All these factors must be taken into account by the operator.
  - The maximum in service wind speed is 20 mph. It is recommended when wind velocity is between 20 mph and 30 mph rated loads and boom lengths shall be appropriately reduced and/or other measures shall be taken to ensure stability and load control. When wind speed exceeds 30 mph main boom should be retracted and stowed.
  - For duty cycle operations (e.g., clam shell, concrete bucket work) weight of load must not exceed 80% of rated lifting capacities.
  - Multi-crane lift operations must be carefully planned well in advance and should only be performed by skilled personnel experienced in such procedures.
  - When operating the crane in the "Mid Span" mode, the outrigger beam pins must be properly engaged.
  - The maximum load which may be telescoped is limited by hydraulic pressure, boom angle and boom lubrication. It is allowable to attempt to telescope any load within the limits of the load rating chart.
  - Never handle personnel with this machine unless the requirements of applicable national, state, and local regulations and safety codes are met.
  - Do not lift loads when boom is fully lowered. The LMAP senses pressure and will not provide warnings or lockout when the boom cylinder is fully retracted.

**INFORMATION**

- Deductions must be made from rated loads for stowed jib, optional attachments, hooks and loadblocks (see deduction chart). Weights of slings and other load handling equipment shall be considered a part of the load.
- Crane load ratings with outriggers are based on outriggers extended and set with all tires clear of the ground.
- Load ratings do not exceed 85% of tipping load.
- The maximum outrigger pad load is 62,800 lbs at rated capacities.

**DEFINITIONS**

- Operating radius is the horizontal distance from the centerline of rotation to the center of the vertical load line or load hook with load suspended.
- Loaded boom angle as shown in the capacity chart is the included angle between the horizontal and longitudinal axes of the boom base after lifting rated load at rated radius.